Aircraft Spruce Avionics opened in September 1993 and in January 2004 merged with Advantage Avionics at Chino Airport in Southern California. Aircraft Spruce stocks a complete selection of major brand equipment at exceptional prices and ships to customers around the world. Advantage Avionics is Aircraft Spruce’s custom panel and avionics installation facility. Highly skilled and experienced installers and bench technicians provide quality work at competitive prices. Advantage Avionics has become the avionics shop of choice for discerning aircraft builders and owners in Southern California.

CALL OUR AVIONICS SALES TEAM
(800) 826-3160

Aircraft Spruce & Specialty Co. cannot accept a return of any instrument or avionics equipment that has been installed and/or altered in any way. All returns must include all components and accessories and all original packaging. All returns must be in new, saleable condition. Credit or replacement will be issued at our discretion pending inspection and testing by the manufacturer. Warranty repairs can be sent directly to the manufacturer with a copy of our invoice.

GARDNER AVIATION SPECIALIST, INC.
Exemplifying Pride and a Commitment to Excellence in all we do! Gardner Aviation is Aircraft Spruce’s East coast avionics shop partner. Specializing in Avionics and Maintenance: Installs, complete avionics upgrades, autopilots, RVSM, TAWS, custom panels, aircraft annuals, 100 hours and pre-buys, and IFR/VFR certification.

Certified FAA Repair Station: G3SR222J
Radio Class: I, II, III
Instrument Class: I, II, III, IV
Limited Airframe

The Aircraft Spruce and Specialty Panel Builder allows you to plan your panel without having to search all over the internet and keep track of all your findings. Using drop-down menus, you can easily search our large inventory of avionics & instruments by category. This tool displays every piece of equipment you will need for your panel, enabling you to get quotes quickly and simplify the ordering process. Your data can be saved so you can build your panel at your own convenience.

If you need a complete custom panel built for your aircraft, Aircraft Spruce is your best choice for best quality and lowest cost.

Contact our Avionics Sales Manager for a quote on your new panel at: ryanbeck@aircraftspruce.com.
GARMIN PORTABLE GPS

GARMIN GPSMAP 695 & 695

All-in-one navigator designed exclusively for aviation. Bright 7-inch diagonal high-definition sunlight-readable display. The bezel around the screen includes soft keys and a joystick control. Fast 5 Hz GPS update rate, the 696 renders graphics and presents flight data smoothly and continuously. With the addition of Garmin’s FlightCharts™, the Garmin GPSMAP 696 has Class 1/Class 2 electronic flight bag (EFB) capability. Includes a GXM 40 smart antenna, which gives you access to high-resolution weather and audio entertainment right in the cockpit (XM subscription required). Can receive PIREPs, turbulence forecast and icing forecast information. The weather data can be laid directly on the unit’s navigation and topographic map pages. Features a high-resolution terrain page showing hazards relative to your altitude and a vertical profile of terrain along your route of flight.

Built-in Jeppesen database, and an Americas, Atlantic or Pacific terrain database. Also includes an obstacles database for the U.S. or Europe. Comes with a realistic “view from space” satellite imagery basemap. When in the air, Garmin’s new Smart Airspace™ feature makes it easier than ever to identify what airspace lies ahead.

GPSMAP 695 is Garmin’s ultimate portable MFD. Similar to the 696, the GPSMAP 695 comes with a large screen and detailed electronic charts — minus XM compatibility — at a price you’ll love.

GARMIN GPSMAP 496

Combines satellite datalink weather with a detailed color map and terrain alerting. Garmin SafeTaxi™ data provides detailed taxway diagrams and position information for over 850 airports. Preloaded on the unit. Look up taxi services, plan an overnight, choose fuel stops and more with the Aircraft Owners and Pilots Association (AOPA) Airport Directory included on the GPSMAP 496. Detailed information for over 5,300 U.S. airports along with the names and phone numbers of thousands of FBOs, plus ground transporta-
tion, lodging, restaurants, local attractions and easier than ever to understand airport layouts and airspace lies ahead. Automatically highlights airspace close to the pilot’s current altitude and de-emphasizes airspace away from the current altitude, which gives you increased situational awareness. Built-in Jeppesen database with terrain and obstacle databases.

Even customize your own minimum clearance levels to receive terrain cautions. Updates map data and “Panel” page instruments at 5 Hz, gives you a smoother, near “real-time” presentation of your aircraft’s analog indicators. With an optional subscription to XM WX Satellite Weather™ and the included GXM 30A smart antenna, you’ll have access to constantly-updated, high-resolution weather data for the U.S. right in the cockpit. Add a Garmin Mode S transponder and the 496 will also display TIS traffic alerts that identify surrounding air traffic. Garmin’s GPSMAP 496 combines radar and visual cues to go right out of the box with preloaded City Navigator® NT street maps and a hefty points of interest (POIs) database, including motels, restaurants, fuel, ATMs and more. Simply enter a destination, and you’re automatically routed with voice-prompted turn-by-turn directions.

GARMIN GPSMAP 495

Includes the advanced features of the 496 — minus XM™ compatibility and preloaded maps — at a price you’ll love. It comes loaded with SafeTaxi™ airport diagrams, AOPA’s Airport Directory data, Garmin’s Smart Airspace™, super-fast update speed, enhanced terrain and aviation databases and more. Add optional mapping to this versatile handheld for use on land or water.

GARMIN GPSMAP 396

An integrated GXM 30 smart antenna makes the satellite connection, enabling the unit to receive and process XM Weather and flight safety products. Allows pilots to display NEXRAD, Temporary Flight Restrictions (TFRs), METs, A/FIs, Winds Aloft, through a subscription with XM Radio data services. Displays TIS traffic when interfaced with a Garmin GTX 330, and channeling a Garmin SL 30 Nav/Com by highlighting a frequency on the GPSMAP 396 and pressing the enter button. Features: • G3 26C remote antenna • Full Jeppesen aviation database, including instrument approaches • Terrain/obstacle display with pop-up warnings • Built-in basemap with automatic routing and turn-by-turn directions • Rechargeable lithium-ion battery offers 8 to 15 hours of use depending on backlight settings • Provides separate serial and USB interfaces • USB 509 point automatic track log • 15 saved tracks, 1,000 saved track points each • Project your position on the map with the configurable complex heading line Water resistant, IEC 60529 IPX7 standards (submersible to 1 meter for 30 minutes) • P/N 11-00592

GARMIN ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
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GARMIN GPS ACCESSORIES

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<td>City Navigator North America</td>
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<td>City Navigator Europe</td>
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<td>Garmin GPS handheld antenna</td>
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<td>GMX 30A antenna (396 &amp; 496)</td>
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<td>GMX 40 Replacement ant. for GMX Series only</td>
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<td>GPS Protective Cover</td>
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<td>Garmin 512MB Data Card</td>
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<td>Garmin 256MB Data Card</td>
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<td>USB Cable kits 296, 396, 496, 695, 696</td>
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GARMIN PORTABLE GPS

GARMIN GPSMAP 196
The GPSMAP 196 offers unprecedented features and utility in an aviation portable. In addition to the built-in Garmin basemap, the GPSMAP 196 accepts all of our MapSource products, and provides turn-by-turn route guidance for street navigation. Other exciting features include a unique “panel page” which offers a graphical depiction of GPS-derived flight information, and an automatic logbook function that records departure airports, arrival airports, and flight time (automatically recording night flight based on sunrise/sunset information). This flight information is stored in the unit, and can be downloaded to Garmin logbook software. The GPSMAP 196’s processor provides map redraws and scrolling at over twice the speed of previous aviation portables. With these features plus a large (3.8” diagonal), 12-level grayscale display in a slim package, the GPSMAP 196 is sure to be the next big hit. Features:
•3 distinct modes: Aviation, Land, Water Extended runway centerlines •30 reversible routes (150 waypoints / route) •50 waypoints / route. •Turn-by-turn automotive routing •Split-screen moving map and HSI display •Built-in basemap showing lakes, rivers, cities, highways, state boundaries •Benefits
Logbook feature automatically records flight data •WAAS-enabled, 12 parallel channel GPS receiver •1000 user waypoints with name and graphic symbol; 50 reversible routes with 50 waypoints / route. •Compatible with most Map source products including Garmin BlueChart marine cartography, MetroGuide, and City Select •WAAS: Weight: approx. 1.5 lbs. with batteries •Battery life using (4) AA batteries; 16 hours with no backlighting used. 4 hours with full backlighting. GPSMAP-196 Americas Database.............. P/N 11-01620 ...................... GPSMAP-196 Atlantic Database............... P/N 11-01622 ......................

GARMIN GPSMAP 96/96C
Full-featured GPS navigation with Jeppesen database and comprehensive towers-and-obstacles database. Users can quickly download and store map data from a variety of optional MapSource CDROMs. Whether on land, sea, or air, the GPSMAP 96 is the smart, versatile way to get there: • Extensive Jeppesen database includes airports, identifiers, and services • Comprehensive U.S. database of obstacles and towers helps alert pilots of potential hazards • Graphic HSI steering cues with GPS-derived VNAV provide added orientation • Built-in autoroute basemap and optional MapSource marine, topo & city street mapping downloads let you move seamlessly from plane to boat to hiking boots. Features: • Unit Dims: 2.7”W x 6.2”H x 1.4”D • Weight: 7 oz. • Display size: 3.0” diagonally • Antenna: Quad-helix • Display resolution: 180x240-pixel, 4-level gray FSTN display • Usable storage capacity: 23 MB • Battery life: Up to 25 hrs in battery save mode, depending on backlight setting • WAAS capability: WAAS GPS receiver for enhanced lateral/vertical guidance. • Waterproof: submersible in 1 meter of water for up to 30 mins. • Routes, Tracks, Waypoints: 50 reversible routes (300 waypoints each), 20 saved tracks (500 trackpoints each), TracBack® technology and 1,000 waypoints with graphical icon identification. GPSMap 96 Americas B&W..........................P/N 11-02819 ................... GPSMap 96 Atlantic B&W..........................P/N 11-02825 ................... GPSMap 96 Pacific B&W............................P/N 11-02826 ................... GPSMap 96C Americas Color........................P/N 11-02820 ................... GPSMap 96C Atlantic Color........................P/N 11-02827 ................... GPSMap 96C Pacific Color..........................P/N 11-02828 ...................

ACCESSORIES FOR GPSMAP 196, 96C AND 96

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<td>NIIMH AA Rechargeable</td>
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<td>GA 27C Remote Antenna</td>
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<td>MCX to BNC Antenna Cable</td>
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<td>GA 26C Suction Cup Mount</td>
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<td>Dash Mount Disk</td>
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<td>Auto Mount</td>
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<td>Bean Bag Mount</td>
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<td>Temp. Adhesive 3-Pack</td>
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<td>Permanent Adhesive Disk</td>
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<tr>
<td>Carrying Case (96C &amp; 96)</td>
<td>11-90325</td>
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USED GARMIN GPS UNITS
Used Garmin GPS units are subject to availability. If the unit is not in stock at the time of your order, it will remain on backorder indefinitely until we receive a used unit from a customer as a trade-in.

<table>
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<tr>
<th>Description</th>
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<td>Used Garmin GPSMAP 396</td>
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<td>Used Garmin GPSMAP 496</td>
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510
GARMIN COLORADO® 300

A built-in basemap, high-sensitivity receiver, barometric altimeter, electronic compass, SD™ card slot, color display, picture viewer and more. Even exchange tracks, waypoints, routes and geocaches wirelessly between similar units. Explore More - Colorado 300 comes with a built-in worldwide basemap to make navigating and finding your location easier. With Colorado 300 you can share your waypoints, tracks, routes and geocaches wirelessly with other Colorado users. Rock on. Find Fun - Intuitive and fun, Colorado features a Rock ‘n Roller™ input wheel for easy one-handed operation and supports Geocaching.com GPX files for downloading geocaches and details straight to your unit. Keep Your Fix - With its high-sensitivity, WAAS-enabled GPS receiver, Colorado 300 locates your position quickly and precisely and maintains its GPS location even in heavy cover and deep canyons. Get Your Bearings - Colorado 300 has a built-in electronic compass that provides bearing information even while you’re standing still, and its barometric altimeter tracks changes in pressure to pinpoint your precise altitude.

GARMIN OREGON™ 300

Features a rugged, touchscreen along with a built-in basemap with shaded relief, a high-sensitivity receiver, barometric altimeter, electronic compass, microSD™ card slot, picture viewer and more. Even exchange tracks, waypoints, routes and geocaches wirelessly between similar units. Touch and Go - A tough, 3-inch diagonal, sunlight-readable, color, touchscreen display. Its easy-to-use interface means you’ll spend more time enjoying the outdoors. Intuitive and fun, Oregon features a Rock ‘n Roller™ input wheel for easy one-handed operation and supports Geocaching.com GPX files for downloading geocaches and details straight to your unit. Share Your Location - Oregon 300 will share your position accurately whether you’re standing still or underway. Get Your Bearings - Oregon 300 has a built-in electronic compass that provides bearing information even while you’re standing still, and its barometric altimeter tracks changes in pressure to pinpoint your precise altitude.

MAGNIFICO PLUS

Truly a universal screen magnifier for PDAs, GPSs, iPods, BlackBerrys and other devices with small screens. The handheld devices to the base of a clip-on lens. With a finger the lens telescopes out to the desired height and when not in use, is collapsible to a compact stowaway unit. Folded down, it measures: 3-1/4” x 4-3/4” x 1-1/4”

QREF BOOK/CARD CHECKLISTS

In a QREF Book, information is organized into standardized sections, and each section is tabbed in sturdy 1/4” (50mm) side tabs, making it easy to navigate to the exact procedure you’re after. If you are already familiar with your GPS, a QREF card will provide quick reminders of how to do common tasks. The cards are double sided and printed in full color and hard laminated.

GARMIN PORTABLE GPS - ACCESSORIES

GARMIN NUVI 205W

This navigator leads the way with turn-by-turn directions and optional MSN® Direct services to get you there on time and keep you informed. It’s packed with millions of destinations and maps for the contiguous U.S. Navigate With Ease - nuvi 205 comes preloaded with City Navigator® NT map data for the contiguous U.S. Simply touch the color screen to enter a destination, and nuvi takes you there with turn-by-turn voice directions, 2-D or 3-D maps and smooth map redraw rates as you navigate. Its digital elevation maps show you shaded contours at higher zoom levels, giving you a big picture of the surrounding terrain. In addition, nuvi 205 accepts custom points of interest (POIs). Take It With You - Like the rest of the nuvi 2x5-series, nuvi 205 sports a sleek, slim design and fits comfortably in your pocket or purse. Its rechargeable lithium battery makes it convenient for navigation by car or foot. With its ‘Where Am I?’ emergency locator, you always know your location. Simply tap the screen to get your current coordinates, your nearest address and intersection, and the closest hospitals, police stations and fuel stations. Go Beyond Navigation - Navigation is just the beginning, nuvi 205 includes many travel tools including JPEG picture viewer, world travel clock with time zones, currency converter, measurement converter, calculator and more. With photo navigation, you can download Google™ Panoramic™ pictures via our Garmin Connect™ Photos web service and send them to nuvi. The 205 is compatible with optional enhanced MSN® Direct content (subscription and receiver required) and our free Garmin Garage where you can download animated vehicles that show your location on the map. It also comes with Garmin Lock™, an anti-theft feature. Enhance your travel experience with optional plug-in microSD cards such as Garmin Travel Guides for detailed data on attractions.

KNEEBOARD FOR HANDHELD GPS & PDAS

This angled kneeboard accommodates virtually every handheld GPS or PDA. The circular base is slightly cone-shaped for a leg-conforming fit and is wiggle-free secured around either upper leg with a velcro tape. The GPS or PDA attaches with velcro on a slant surface, which is angled about 30° and permits a perpendicular view on the screen.

JEPESEN GARMIN GPSMAP TRAINING AIDS

The Jeppesen Training CDS lets pilots learn at their own pace, practicing procedures at the comfort and safety of a computer desktop, rather than flying heads-down. Easily and quickly get the users familiar with operations by using a visual hands-on approach.

GPS MANUALS

Pilot-friendly manuals are available for most receivers. Our task-oriented manuals are simplified directions that lead you step-by-step through all the GPS operations. Includes descriptions of all pages.

USING THE GNS430W/530W

This is not your typical "Cook Book" approach to learning the GNS430W/530W. The manual contains 62 pages of text and dozens of colored pictures, the same pictures you would see in real-life when operating the unit. Written by Keith Thomassen.
This option includes a PS Engineering *PMA1000II four places intercom for the Garmin™ SL 40. Available with any of our Garmin™ Packages.

*Request quote for the needed harness at an additional cost. P/N 11-05052 ....................................................... .....................

**Package E, H, & K cannot be sold over the counter for certified aircraft installation as the GTX 330 transponder must be installed by a Garmin dealer.**

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**INTERCOM OPTION**

This option includes a PS Engineering “PMA1000II” four places intercom for the Garmin™ SL 40. Available with any of our Garmin™ Packages.

*Request quote for the needed harness at an additional cost. P/N 11-05052 ....................................................... .....................

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**GARMIN NOH (NEWLY OVERHAULED) UNITS**

**GARMIN GPS 155XL NOH GPS** - The IFR-certified GPS 155XL TSO, along with its VFR counterpart, GPS 150XL, add moving map graphics to a fast, efficient GPS receiver. The 155XL TSO shares the popular features of the GPS 150XL and is TSO-certified for non-precision approaches for the IFR environment. Americas Data Base. P/N 11-05939 ..............................

GPS 150XL shares the popular features as the 155XL TSO at a lower price for the VFR pilot. P/N 11-06323 ..............................

**GARMIN GPS 150XL NOH GPS**

**GARMIN GNC 300XL NOH GPS COMM** - The GNC 300XL TSO delivers picture perfect GPS/comm technology and outstanding reliability. This panel mount combines GPS navigation with a 760-channel transceiver and high resolution DSTN display. The 300XL TSO shares the popular features of the GNC 250XL and is TSO-certified for non-precision approaches for the IFR environment. P/N 11-02934 ..............................

**GARMIN NOH GTX 330 TRANSPONDER** - See the same radar traffic as your ATC controller with the GTX 330, a panel-mounted Mode S digital transponder with traffic datalink capability that also meets the European mandate for Mode S level 2 surveillance. GTX 330D adds antenna diversity to the features of the GTX 330 for improved visibility of TCAS-equipped aircraft flying above you. P/N 11-05747 ..............................
AIRGIZMOS PANEL DOCKS

AIRGIZMOS PANEL DOCK FOR GARMIN 695/696
- Secures the Garmin GPSMap 695/696. Designed to allow quick and easy removal of your portable GPS.
- Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.
P/N 11-07309 ............................P/N 11-07310

AIRGIZMOS PANEL DOCK FOR GARMIN 295
The AirGizmos Panel Dock was designed to securely hold your Garmin 196, 296, 396, or 496 portable GPS. It fits nicely in a standard 6.25 avionics stack. It allows you to quickly remove your portable GPS from your plane for upgrades, flight planning, or for use in your car or boat. It is also a safe way to use your portable GPS, as it is securely held in the panel at all times. The Panel Dock is shipped with a set of mounting hardware necessary for attaching it to an avionics stack. If you intend to install it in a different way, use the included hardware as a reference when deciding what type of installation hardware you will need.
P/N 11-03500

AIRGIZMOS PANEL DOCK FOR GARMIN 296
The Garmin 296 is held safely and securely, but can be easily removed in a matter of seconds. The e temal power and antenna connections are made at the back of the unit, and the cables are secured from falling into the panel with keyholes machined into the dock.P/N 11-04315

AIRGIZMOS VERTICAL TILT ADAPTOR FOR GARMIN UNITS
Following up the release of their horizontal Angle Adapter, AirGizmos decided to address the needs of those pilots who mount their GPS lower on the instrument panel. The Vertical Tilt Adapter angles the viewing angle of the GPS so it is more readable when the GPS is mounted at the top of a tall stack panel. This adapter fits the same opening as the Panel Dock itself, so adding the vertical tilt should be very easy for existing installations.
RE UIRES P/N 11-03 0

AIRGIZMOS HORIZONTAL TILT ADAPTOR FOR GARMIN UNITS
AirGizmos’ horizontal Tilt Bracket angles the GPS at a fixed angle of 15 degrees, providing a much more convenient viewing angle. This adapter fits in the same panel cutout as the Panel Dock. If you already have a Panel Dock you can use this adapter without having to modify your installation. You can mount the Angle Adapter in either direction, in case you fly in the right seat. In addition, by using this adapter you can e pan your installation options, since it lets you surface-mount the Panel Dock on any instrument panel.
RE UIRES P/N 11-03 0 ............................P/N 11-04671

AIRGIZMOS 396 XM ANTENNA DOCK
This is the perfect companion to your new Garmin 396 and the AirGizmos Panel Dock. Now you can move the XM antenna from plane to plane, or from vehicle to vehicle, along with the GPS itself. It is designed to mobilize your costly 496 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. The AirGizmos 396 XM Dock can easily be integrated into your instrument panel. AirGizmos supplies a quick release bracket. The AirGizmos 396 XM Dock provides additional organization in the cockpit by grouping cables close together. The included XM weather receiver bracket provides additional organization in the cockpit by providing a secure mount for the XM or receiver bracket. No tools required. P/N 11-04673

AIRGIZMOS 396 XM CRADLE & CABLE
This product will allow you to use the AirGizmos XM Dock in a second vehicle or aircraft. The AirGizmos XM Dock is a second dock for your XM antenna. This product requires that you first purchase the AirGizmos XM Dock.
P/N 11-04781

AIRGIZMOS PANEL DOCK COVER FOR GARMIN 196/296/396/496
This panel is for Garmin panel dock for models 196/296/396/496. Protects unit from V rays and hides unit in the aircraft so that theft is less likely to happen. Can be used even if Garmin unit has not been installed yet.
P/N 11-04775

AIRGIZMOS PANEL DOCK FOR AVMAP EKP-IV
Now you can mount the beautiful, detailed display of the AvMap EKP-IV directly in your instrument panel using the AirGizmos EKP-IV Panel Dock. The AirGizmos EKP-IV Panel Dock is designed to hold the AvMap securely yet it allows you to easily remove your portable unit from your plane whenever the need arises. The AirGizmos Panel Dock offers easy installation, quick release, hassle-free management of cables, and elegance of design.
P/N 11-04371

AIRGIZMOS GEOPILOT PANEL DOCK
This GPS has a nice large screen to go with its small size. Our Panel Dock is designed to hold the GeoPilot securely in your panel while allowing it to be easily removed for portable use. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.
P/N 11-05615

AIRGIZMOS GEOPILOT II PLUS PANEL DOCK
The Panel Dock for the AvMap GeoPilot II Plus fits in a standard 6.25 radio stack. Power and antenna cables are organized and managed. The result is a professional installation for your portable GPS. The included XM weather receiver bracket provides additional organization in the cockpit by providing a secure mount for the XM or receiver bracket. No tools required. P/N 11-05655

AIRGIZMOS PANEL DOCK FOR AIRMAP 1000/2000C
The AirMap 1000/2000C Panel Dock works in much the same fashion as other AirGizmos products. The cables supplied by Lowrance fit through keyhole slots on the back of the unit. The release latch at the top of the Panel Dock permits quick removal of the device for use in another vehicle or simply for security purposes.
P/N 11-04372

AIRGIZMOS LOW COST 600 PANEL DOCK
Lowrance makes a low cost handheld GPS that is used the perfect size for many panels. Our Panel Dock will allow the AirMap 600C to be nicely mounted in your panel while still allowing it to be easily removed as a handheld. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.
P/N 11-05616

AIRGIZMOS APPLE IPOD DOCK
The iPod Dock will fit all first, second, and third generation iPod devices. It does not fit the iPod Mini, or any of the iPod knockoffs that are out there. The iPod Dock can be installed to allow access to either the top plugs or the bottom plug. Plug it the way you want it to go and mount it in your panel. The top plugs are useful for connections, while the bottom plug allows you to fully integrate your iPod into your intercom and power system. A separate cable is required. P/N 11-04673

AIRGIZMOS AERO COVER
You could like to be able to permanently mount the GPS or XM antenna from your favourite Garmin or AvMap with the Aero Cover. This is the perfect size for many panels. Our Panel Dock will mount the beautiful, detailed display of the AvMap EKP-IV directly in your instrument panel using the AirGizmos Panel Dock. The AirGizmos Panel Dock is designed to hold the AvMap securely yet it allows you to easily remove your portable unit from your plane whenever the need arises. The AirGizmos Panel Dock offers easy installation, quick release, hassle-free management of cables, and elegance of design.
P/N 11-04371

AIRGIZMOS M ANTENNA CABLE
XM Antenna Cable
Straight, 2 meter extension for Garmin XM satellite antenna.
P/N 11-04780

AIRGIZMOS AERO DOCK
Don't have room to install the Garmin XM Antenna inside your plane
The Aero Dock gives you the option of mounting it outside. The AirGizmos Antenna Dock is designed to mobilize your costly XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. The AirGizmos XM Dock can be cleaned remotely by utilizing the AirGizmos XM Dock.
P/N 11-04787

PREMIUM BEANBAG XM ANTENNA PACKAGE
The AirGizmos Antenna Dock is designed to mobilize your costly 496 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Package includes base, cradle, beanbag assembly, and two cables. P/N 11-04694

AIRGIZMOS 396 XM ANTENNA CABLE
This product will allow you to use the AirGizmos XM Dock in a second vehicle or aircraft. The AirGizmos XM Dock is a second dock for your XM antenna. This product requires that you first purchase the AirGizmos XM Dock. P/N 11-07007

AIRGIZMOS 396 XM CRADLE & CABLE
This product will allow you to use the AirGizmos XM Dock in a second vehicle or aircraft. It does not fit the iPod Mini, or any of the iPod knockoffs that are out there. P/N 11-04781

513
**BENDIX KING AV8OR™ SERIES - WXWEATHER**

**AV8OR™ VISION 3D COCKPIT INFORMATION SYSTEM**

Remote Touch Screen Display. Modular Mobile Computing Platform. Synthetic Vision Improving Situational Awareness Equipped with built-in 3D Synthetic Vision and IFR approach plates, with optional satellite weather and 3D traffic. Combining both positional and situational data, the pilot can be presented with a realistic and accurate representation of the view through the aircraft windshield. Advanced Features * True 3D Synthetic Vision * 3D emergency guidance to nearest airport * 2D moving maps with high-resolution terrain * Split-screen 3D/2D option * Touch and see moving map * Touch and drag map panning * Terrain awareness warning system view TA S * Built-in flight planning * D ATS flight plan importing * FAA approach plates * SID/STARs * Built-in barometric altitude option * Satellite weather option * Traffic avoidance option * Automatic preheating capability for colder climates * Built-in notepad for fast copying of clearances.

**Position information is provided by a state-of-the-art ARS/GPS built-in Attitude Reference System ARS with AAS GPS and Solid-State Barometric pressure sensor, a completely independent, battery backup.**

**Integrated Technologies**

WxWorx XM® Satellite Weather Unit - The receiver can be integrated with the AV8OR Vision 3D system via SB. Zon XRX PCAS™ Traffic Detection - By integrating data from XRX, AV8OR Vision 3D displays 2D quadrant bearing, distance, and altitude information, as well as the world's first portable 3D Traffic View. The receiver can be integrated with the AV8OR Vision 3D system via SB.

**Description**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
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<td>AV8OR Vision 3D with D</td>
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<td>AV8OR Vision 3D with SSD</td>
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**Accessories**

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<tbody>
<tr>
<td>Accessory Kit Includes ICD-800 VIS 11-07021</td>
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</tbody>
</table>

**WXWEATHER**

* X EATHER ASIC RECEI ER KIT - Price includes receiver only. No power. Requires interface module. 

**Porta e Antenna**

Includes receiver only. Requires interface module. 

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<table>
<thead>
<tr>
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<tr>
<td>AV8OR GPS - North / South America</td>
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<td>AV8OR GPS - International</td>
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<td>11-06936</td>
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<tr>
<td>320200V AC Adapter</td>
<td>11-06938</td>
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<tr>
<td>Remote GPS Antenna</td>
<td>11-06939</td>
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<tr>
<td>Argizmos Panel dock for the AV8OR</td>
<td>11-07782</td>
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<tr>
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<td>11-06941</td>
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<td>11-06942</td>
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<tr>
<td>Battery 1600MA</td>
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<tr>
<td>RS 232 Cable</td>
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<tr>
<td>4GB SD Card Americas Database</td>
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</tr>
<tr>
<td>4GB SD Card International Database</td>
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</table>

**AV8OR™ HORIZON 3D COCKPIT INFORMATION SYSTEM**

The Mobile Computer Platform MCP is a Tablet PC with a 7 high-resolution LCD display. This unit draws power from the aircraft's power supply and includes rechargeable batteries for wireless operation in the event of power loss. The unit can be mounted on the yoke or in any number of locations within the pilot's field of view. The IN can be mounted on any level surface inside the aircraft such as under the passenger seat. The GPS-enabled inertial Navigation unit IN is a self-contained 3D solid-state inertial navigation sensor system with AAS-enabled GPS receiver * 3D solid state gyros * Barometric pressure sensor * Battery backup * Bluetooth wireless interface. Equipped with built-in 3D Synthetic Vision and IFR approach plates, with optional satellite weather and 3D traffic. Synthetic vision technology is poised to revolutionize IFR flight, dramatically reduce pilot workload and increase flight safety. By combining both positional and situational data, the pilot can be presented with a realistic and accurate representation of the view through the aircraft windshield. Synthetic Vision System SVS integrates data from multiple data sources, Advanced Features * True 3D Synthetic Vision * 3D emergency guidance to nearest airport * 2D moving maps with high-resolution terrain * Split-screen 3D/2D option * Touch and see moving map * Touch and drag map panning * Terrain awareness warning system view TA S * Built-in flight planning * D ATS flight plan importing * FAA approach plates * SID/STARs * Built-in barometric altitude option * Satellite weather option * Traffic avoidance option * Automatic preheating capability for colder climates * Built-in notepad for fast copying of clearances.

**NOTE**

For use with the original or receiver only.

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</tbody>
</table>

**XM DIGITAL ANTENNA**

The complete antenna system for XM and X. Includes 50 ft. coaxial cable and mount. 

P/N 11-06733...*
LOWRANCE 2000C COLOR GPS

- Large sunlight-viewable 5" diagonal, 256-color display with high-detail 320V 240 pi el resolution
- Unique & exclusive glass-cockpit navigational screening
- Exceptional Lowrance navigation precision, performance, and reliability
- Marine and Automotive modes for total navigation versatility
- Complete buy-A-fly package includes all accessories for air, land, & sea navigation.

Included Accessories:
- MapCreate™ mapping software (DVD) • MMC/SD Interface with USB
- eppesen • Obstructions databases preloaded on a 32MB MMC/SD memory card • RAA-4 Remote Amplifying Antenna
- MapCreate™ • MapCreate™ PC Cable with Cigarette Adapter
- Cigarette Power Adapter 11-19352
- Power Data Cable 11-19358
- Terrain 512MB 11-04282
- Mapcreate Canada CD 11-04630
- Mapcreate Canada 11-04629
- Mapcreate US 11-04621
- Aircraft Mount
- Automotive Mount
- Smart Card
- Power Adapter 12V-40V
- MMC Card 512MB
- MMC Card SD

ACCESSORIES

- Portable Power pack 11-07837
- AC Adapter 2000C 11-04379
- Remote Antenna 11-04282
- Power Data Cable 11-19358
- Cigarette Power Adapter 11-19352

LOWRANCE AIRMAP 600C

512MB Terrain Awareness America included with the eppesen • Obstructions databases as well as the enhanced Safe Flight 21 Airport to iway map data. AirMap 600C comes complete with an MMC/SD digital card reader for hassle-free online updates. Calibrated, with big buttons and unlike many such products, there is nothing to load, no thing to Initialize, no internal computer to operate.

- Exceptional Lowrance navigation precision, performance, and reliability
- Unique & exclusive glass-cockpit navigational screening
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- Remote Antenna 11-04282
- Power Data Cable 11-19358
- Cigarette Power Adapter 11-19352

VFLITE AIRMAP 500/1000 INTERACTIVE GUIDANCE

It is not to be able to use all the power that your AirMap 500 1000 GPS can offer, but you can do - and that you’d rather figure it out on the ground at your leisure instead of flying heads down trying to learn it. The new VFLITE guide on the feature-rich Lowrance portables will greatly reduce the frustration that often comes from reading the manual, enable you to learn in a safe environment and let you ma Ine the investment you made in your AirMap.

- Exceptional Lowrance navigation precision, performance, and reliability
- Unique & exclusive glass-cockpit navigational screening
- Exceptional Lowrance navigation precision, performance, and reliability
- Marine and Automotive modes for total navigation versatility
- Complete buy-A-fly package includes all accessories for air, land, & sea navigation.

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AV

515
**AVMAP PORTABLE GPS**

**GEO PILOT II**

GeoPilot II, the new portable navigator developed by AvMap based on the success of the GeoPilot, is high performance and truly affordable. More i-ually hardware and Software features have been added. GeoPilot II is faster than ever thanks to the new 300 M z processor and is more compact and practical with the built-in GPS receiver and richer software and hardware with the new enhanced database.

in information. **arge display, Safe Navigation** - AvMap GeoPilot II displays all the information you need on a wide 5 color LCD. The display is sunlight-readable and equipped with a sensor for automatic brightness control. The information is sharp and bright and the map page is fully customizable. The large control buttons and unique toggle cursor control make navigating through menus and editing flight plans easy.

**Most Accurate Information** - The maps preloaded on the SD memory card include the eppesen navigation database with terrain and vertical obstructions. The Map also includes Victor Airways, marine objects, LM Aerodromes and private airports. This enhanced database provides more navigation and emergency nearest options. **Enhanced Situational Awareness** - Situational awareness is greatly improved with TA S Terrain Awareness among System. ith the new Crossed Airspace Predictor function, you get a preview of the airspace that you will cross along your flight, while the Crossed Airspace Advisor provides warnings during the flight on airspace being crossed. **Multifunctional Navigation by Sky and Ground** - AvMap GeoPilot II is ity engineered for aeronautical as well as terrestrial use as it can fit perfectly in your aircraft and in you car. ith the optional 2 GB SD Card preloaded with Tele Atlas Maps of Europe or North America GeoPilot II PL S可以 be converted into an advanced car navigator with turn-by-turn vocal instructions SD included at no extra costs.

**High Performance at an Affordable Price** - The GeoPilot II PL S, the new portable aeronautical navigator developed by AvMap, is highly performing but truly affordable. GeoPilot II PL S is faster than ever thanks to the new 300 M z processor and is more compact and practical with the built-in battery and GPS receiver, and an enetra serial port available for connection with PC and autopilot devices. **arge display, Safe Navigation** - AvMap GeoPilot II PL S displays all the information you need on a wide 5 color LCD. The display is sunlight-readable and equipped with a sensor for automatic brightness control and an audio video input. The information are clearly visible and the map page is fully customizable. eather Conditions - ith an optional antenna you can receive constantly updated XM/Weather conditions NEXRAD and terrain weather radar, and Lighting information are displayed on the map. Enhanced Situational Awareness - ith the TA S 5 GEO PILOT II PLUS

**POWER OPTIONS**

1. **AC A-PTER** - This 12V AC adapter provides you with a perfect source for in-home flight planning an dismulator use. Power your moving map from an 115v outlet and relax in the comfort of your home while you plan your favorite trip.

P/N 11-01273

**Go-Pack** - For your portable power needs. The pack includes a 12v battery pack: 4000 mAh NIMH, padded padded cable and military style cord, 1.4 lbs., single charge last up to 4 hrs.

P/N 11-00509

**epessen Nav ata C-card America** -

P/N 11-02395

**Memory C-Card** for the EKP only 2MB user card

P/N 11-02397
GPS ANNUNCIATORS

T. The fingertip annunciator and flight information in the pilots primary view, Annunciation Control nits ACs offer important features in an efficient design. As an interface with popular NAV and GPS systems the AC provides vital safety information including waypoint, approach status and integrity alerting. Approved to strict TSO standards, Mid-Continent ACs are engineered as a compact, affordable solution to the challenge of installing several switches. Most versions are configured 14V or 28V with vertical or horizontal mounting and feature long-life lamps with automatic backdimming.

<table>
<thead>
<tr>
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<th>Model No.</th>
<th>Configuration</th>
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GARMIN GMX 200 MULTI-FUNCTION DISPLAY

Designed for retrofit installation in light sport LSA and experimental/kitbuilt aircraft, the GD 375 is a panel-mount multifunction display unit that provides a non-TSO d glass cockpit option at a very affordable price. 7-inch high-definition VGA flat-screen with dual redundant power inputs, mounts flush in the panel. Operation is simple. There’s a handy rotary joystick cursor control for data entry, soft keys for mode selection, front-loading SD card slot for expansion memory and updates, plus an easy-to-navigate G1000-like graphical user interface. Comes with Garmin FileCharts and SafeTaxi pre-installed. There’s also AOPA Airport Directory data that offers detailed information on over 7,400 S. airports, along with airports of entry for Canada, Mexico and the Caribbean. eather or not.

GARMIN SL 30 NAV/COM RADIO

Powerful 676 channel comm radio with a 200 channel VOR, glideslope and localizer receiver. Built-in deviation may be displayed and the SL 30 interfaces with most common mechanical CDIs and SIs. The SL 30 can be shipped for installation in any aircraft and does not require dealer installation.

GARMIN SL 40 COM RADIO

Monitor ATIS, while never leaving your assigned ATC channel. The SL 40 always gives priority to the active channel, meaning you’ll never miss a transmission. 14V 10-watt transmit power and only 35-watt DC input, the SL 40 is power efficient and cool running.

GARMIN GDU 375 & 370

Similar to its predecessor, the MX20™, the GMX 200 is easy-to-use with multiple functions and useful features that make navigation simple and provide an extra margin of safety: At a glance, see aircraft’s position relative to terrain, obstructions, weather, airways, restricted airspace & more. Select between several charting options & add or remove details with the simple press of a soft key. New rotary knob allows for quick map scale changes and entry of data. Front loading SD card-slot allows for expanded memory & makes loading updated charts uncomplicated. Fits in same panel space as the MX20 & includes more serial ports for added sensor capacity.

GARMIN SL 30 NAV/COM RADIO

For the ultimate in situational awareness, the GMX 200™ multifunction display leads the pack with a viewing area almost 20 percent larger than other panel-mounted MFDs and an impressive list of features and navigraphic interfaces.

ig-Picture display - you’ll always get the big picture with the GMX 200's sunlight-readable, high-resolution, 640 x 480 display. In addition to its huge AMLCD display, it comes with enhanced backlighting that dramatically improves color and contrast, resulting in chart depictions and images that are brighter and more vivid in all lighting conditions.

ig-Time eatures - Similar to its predecessor, the MX20™, the GMX 200 is easy-to-use with multiple functions and useful features that make navigation simple and provide an extra margin of safety: At a glance, see aircraft’s position relative to terrain, obstructions, weather, airways, restricted airspace & more. Select between several charting options & add or remove details with the simple press of a soft key. New rotary knob allows for quick map scale changes and entry of data. Front loading SD card-slot allows for expanded memory & makes loading updated charts uncomplicated. Fits in same panel space as the MX20 & includes more serial ports for added sensor capacity.

GARMIN SL 40 COM RADIO

Monitor ATIS, while never leaving your assigned ATC channel. The SL 40 always gives priority to the active channel, meaning you’ll never miss a transmission. 14V 10-watt transmit power and only 35-watt DC input, the SL 40 is power efficient and cool running.

GARMIN GDU 375 & 370

For the ultimate in situational awareness, the GMX 200™ multifunction display leads the pack with a viewing area almost 20 percent larger than other panel-mounted MFDs and an impressive list of features and navigraphic interfaces.

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GARMIN GMX 200 MULTI-FUNCTION DISPLAY

For the ultimate in situational awareness, the GMX 200™ multifunction display leads the pack with a viewing area almost 20 percent larger than other panel-mounted MFDs and an impressive list of features and navigraphic interfaces.
**GARMIN GNS 530W**

The GNS 530 is an all-in-one GPS/Nav/Comm solution. It features a AAS-certified GPS, 220-channel capacity and 200-channel ILS/VOR with localizer and glideslope. It is approved to fly LPV glideslope approaches without reference to ground-based nav aids of any kind. An advanced 15-channel receiver capable of five position updates per second, GNS 530 meets the FAA’s stringent TSO C146a standards for AAS soem means navigation providing vertical and lateral approach guidance into thousands of .S. airports previously inaccessible in IFR conditions.

GNS 530’s 5-inch high-contrast display with brilliant colors makes it easy to read and interpret pilot-critical information. Conveniently scan information from wide viewing angles, even in direct sunlight.

Integrates built-in terrain and navigation databases. The 530’s huge epesson database, updated with front-loading data cards, contains location reference for all airports, VORs, NDBs, Intersections, Flight Service Stations, published approaches, SIDs/STARs, Special se Airspace and geopolitical boundaries. A detailed basemap shows airport, cites, highways, railroads, rivers, lakes, coastlines and more.

**Flight Plan Data Card**..............................P/N 11-07593..........................
**GNS 430W with harness E per. A/C ....P/N 11-06750..........................**
**Navishield 530 Screen Protector.............P/N 05-04227..........................**

**GARMIN GNS 430W**

All-in-one GPS/Nav/Comm solution. It features a AAS-certified GPS, 220-channel capacity and 200-channel ILS/VOR with localizer and glideslope. It is approved to fly LPV glideslope approaches without reference to ground-based nav aids of any kind. Featuring an advanced 15-channel receiver capable of five position updates per second, GNS 430 meets the FAA’s stringent TSO C146a standards for AAS soem means navigation providing vertical and lateral approach guidance into thousands of .S. airports previously inaccessible in IFR conditions.

4-inch high-contrast display with brilliant colors makes it easy to read and interpret pilot-critical information. Conveniently scan information from wide viewing angles, even in direct sunlight.

Integrates built-in terrain and navigation databases, providing a clear, concise picture of where you are and where you’re heading. The 430’s huge epesson database, updated with front-loading data cards, contains location reference for all airports, VORs, NDBs, Intersections, Flight Service Stations, published approaches, SIDs/STARs, Special se Airspace and geopolitical boundaries.

**GNS 430 GPS/NAV/COM/COMPONENTS **
P/N 11-06748

**GNS 430 with harness E per. A/C ...P/N 11-06750**

**GNS 430 530, inng amess . P/N 11-06749**

**Navishield 30 Screen Protector**

**Flight Plan Migrator KR**

**Flight Plan Data Card**

**AV**

**GARMIN GTX 327 MODE C TRANSPONDER**

Ith the intro of the GTX 327, Garmin revolutionizes a part of the panel that has been long overlooked. This full-featured, TSO certified, GTX 327 transponder brings a unique level of functionality and utility to your airplane.

Its solid state transmitter provides 200 watts nominal power output and eliminates the need for a cavity tube that can degrade with time, fail, or require expensive replacement. And since the GTX 327 design is 100% solid state there is no warm up time, lower power consumption and lower heat emission. All of which translates to a longer service life, larger volume of the GTX 327 biggest features are the easiest to see. Among them, the easy-riding DSTN Liquid Crystal Display which reverses yellow numbers out of black for optimal viewing. An innovative keypad makes entering a squawk code a snap. And a dedicated VFR button allows for quick and easy 1200/VFR squawking. The GTX 327 also offers two important timing functions.

The first screen shows the current time and count up timer. The second indicates flight time and a count down timer. Together they represent a whole new standard in transponder utility.

**GTX 327 with amess .......P/N 11-00329**

**GTX 327 Transponder only ..........P/N 11-00342**

**GTX 327 Mode-S w/ amess . P/N 11-01525**

**GTX 320A MODE C TRANSPONDER**

The GTX 3 0A can be sold over the counter to certified & e perimental aircraft owner s with a pre-wired harness.

**GARMIN GTX 320A MODE C TRANSPONDER**

The GTX 320A is a full featured, compact, panel mounted Class 1A transponder. GTX 320A solid state transmitter provides 200 watts nominal power output eliminating the need for a cavity tube that can degrade with time, fail, or require expensive replacement. 100% solid state also means no warm up time, reduced power consumption and heat for longer service life. E tensive utilization of surface mount technolo gy provides shallow depth and light weight which simplifies installation in the tightest spaces. 14 or 28 volt operation is available without the requirement for a temal voltage converters or dropping resistors. The GTX 320A fits into e 9ing installations of selected Narco, King transponders using optional adapters for simple, cost-effective upgrading. A single board design allows for ease of serviceability and standard, four-knob tuning.

**GTX 320A Transponder ..........P/N 11-18965**

**GTX 320A w/ amess .......P/N 11-18965**

**Optional Narco Adapter Kit **

**Optional King Adapter Kit **

**GTX 3 0A can be sold over the counter to certified & e perimental aircraft owner s with a pre-wired harness.**

**GARMIN GI 102A & GI 106A CDI’S**

The G102A and G106A course deviation indicators are fully featured reclineline meter receivers, movable out for GPS interface, and internal GPS mode annunciator. G102A, orks with the G102A, orks with the GI 106A. G102A, orks with the GI 106A is VOR/LOC/GS, CDI. Size 3.25 w x 3.25 h x 4.625 d. The G102A is designed for VFR use. The GI 106A is designed for IFR installations.

**Call of Special Price**

**GARMIN GI 102A CDI**

**GI 102A CDI ..........P/N 11-18980**

**GI 106A CDI ..........P/N 11-07568**

**GARMIN GI 102A & GI 106A CDI’S**

The G102A and G106A course deviation indicators are fully featured reclineline meter receivers, movable out for GPS interface, and internal GPS mode annunciator. G102A, orks with the G102A, orks with the GI 106A. G102A, orks with the GI 106A is VOR/LOC/GS, CDI. Size 3.25 w x 3.25 h x 4.625 d. The G102A is designed for VFR use. The GI 106A is designed for IFR installations.

**Call of Special Price**

**GARMIN GI 102A CDI**

**GI 102A CDI ..........P/N 11-18980**

**GI 106A CDI ..........P/N 11-07568**

**JEPPESEN INTERACTIVE 530/430 TRAINERS**

Computer based training program for the pilot who wants an audio-visual, hands-on way to quickly master the G900/G400 G950 CDI. This portable training system uses a CDI from Garmin, orks with flight refiners, meter movements, receiver output for GPS interface, and internal GPS mode annunciator. VLOC, orks with the G102A, orks with the GI 106A. G102A, orks with the GI 106A is VOR/LOC/GS, CDI. Size 3.25 w x 3.25 h x 4.625 d. The G102A is designed for VFR use. The GI 106A is designed for IFR installations.

**Jeppe sen 530/430 Interactive ........P/N 13-06544**

**Jeppe sen 530/430 Training ..........P/N 13-06546**

**NOTE**

The GTX 320, GTX 3 7 & GTX 3 8 O NOT include an antenna. E perimental Aircraft can order TE Transponder antenna P/N 11-1177 for.
GARMIN

GARMIN NOH GNC 300XL TSO GPS/COM

The GNC 300XL combines go-anywhere GPS flight navigation with full 760-channel V/F communications. On the Comm side, a full powered 760 channel transceiver with 5 minimum transmit power delivers crisp, clear cockpit audio and voice transmissions. Comm features auto-squelch control, standard headset output with sidetone and audio level control, stum mike transmission timeout, emergency channel select and autotune freq, selecton from database card. The Nav side features GARMIN easy-to-use PhaseTrac 12 parallel channel GPS receiver. A point library holds up to 1,000 user-defined waypoints ans stores up to 20 reversible flight plans with up to 31 waypoints. Each eppesen NavData database includes S As, SAs, airports, VORs, NDBs, intersections, plus airport, FSS and center frequencies. Features include inmmune search, 1000 user defined waypoints, 20 reversible routes, checklists, messages, true airspeed, winds aloft, 14 moving map scales, and a complete eppesen database showing S Class B and C airspace, all S As, MOAs, prohibited and restricted areas, and much more. Size 6.25 x 5.8 . 2 x 14 oz. Furnished complete with GPS antenna, Rack, and connectors. Call For Special Price.

ANNUNCIATORS FOR GPS 155XL/GNC 300 (XL)

*Please call for other database models.

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<td>Vertical, 28V with interal relay</td>
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GARMIN GNC 250XL GPS/COM

The GNC 250XL GPS/Comm features the PhaseTrac 12 GPS receiver tracking 12 satellites simultaneously. Features include emergency search, 1000 user-defined waypoints, 20 reversible routes, checklists, messages, true airspeed, winds aloft, 14 moving map scales, and complete eppesen database showing S Class B and C airspace, all S As, MOAs, prohibited and restricted areas, and much more. Size 6.25 x 5.8 . 2 x 14 oz. Furnished complete with GPS antenna, Rack, connectors. Includes 760-channel 5 transceiver. Call For Special Price.

GARMIN GMA 240 AUDIO PANEL

Non-TSO so it's priced really low, etc, it includes an intercom and will support dual COMM, dual NAV, dual VOR's, and dual music audio inputs plus up to three unswitched inputs for telephone ringers, alarm alerts, or other warning tones. Pilots can connect up to two dedicated music sources to the rear connector - e.g. XM music and CD player and over-ride one of those sources at any time by pressing-in a device e.g. MP3 player into the 2.5 mm front ack. The function source's volume can be increased or decreased with the GMA 240 by pulling out the copilot volume knob. The 2.5 mm front ack also makes it easy for pilots to make and receive cell phone calls. It has an full-duple telephone interface with intercom isolation capability.

Specifications . eight 15.5 oz 440 g * Dimensions 1.3 x 7.12 Power Input voltage range 10-32 VDC 
Temperature range -20C to 65C * Altitude 55,000 MSL unpressurized 
Transceiver inputs 3 including TEL * Receiver inputs 4 * Alert inputs 3 * Input impedance 50 Ohms * Input isolation 60 db min * Bandwidth 100-2000 Hz * Input range 32-V DC 

GARMIN GMA 240 Audio Panel...

The Garmin GMA 240 audio panel is compact and lightweight, making it an excellent choice for panels with limited space. Audio panel features include 3 transceiver inputs, 5 receiver inputs, and 2 unswitched inputs. The intercom provides 6 positions, 3 volume controls, 2 VOX level controls, 6 VOX circuits, and 2 stereo music inputs. This unit features 3 stereo headphone outputs and 2 speaker outputs, and the marker beacon receiver features input impedance of 50 ohms. Size 6.8 x 2.6 x 1.3. Power req. 11-33 VDC 

GARMIN GMA 340 AUDIO PANEL

The Garmin GMA 340 audio panel is compact and lightweight, making it an excellent choice for panels with limited space. Audio panel features include 3 transceiver inputs, 5 receiver inputs, and 2 unswitched inputs. The intercom provides 6 positions, 3 volume controls, 2 VOX level controls, 6 VOX circuits, and 2 stereo music inputs. This unit features 3 stereo headphone outputs and 2 speaker outputs, and the marker beacon receiver features input impedance of 50 ohms. Size 6.8 x 2.6 x 1.3. Power req. 11-33 VDC 

GARMIN NOH GPS 155XL TSO GPS

Standard configuration includes GPS 155XL receiver TSO d to C129a, Class A-1 with eppesen datacard, aviation installation kit including low profile TSO antenna, audio panel, and intercom. The unit includes the successful attributes of the GMA 340 audio panel and will support dual COMM, dual NAV, dual VOR's, and dual music audio inputs plus up to three unsswitched inputs for telephone ringers, alarm alerts, or other warning tones. Pilots can connect up to two dedicated music sources to the rear connector - e.g. XM music and CD player and over-ride one of those sources at any time by pressing-in a device e.g. MP3 player into the 2.5 mm front ack. The music source's volume can be increased or decreased with the GMA 240 by pulling out the copilot volume knob. The 2.5 mm front ack also makes it easy for pilots to make and receive cell phone calls. It has a full-duple telephone interface with intercom isolation capability.

Specifications . eight 15.5 oz 440 g * Dimensions 1.3 x 7.12 Power Input voltage range 10-32 VDC 
Temperature range -20C to 65C * Altitude 55,000 MSL unpressurized 
Transceiver inputs 3 including TEL * Receiver inputs 4 * Alert inputs 3 * Input impedance 50 Ohms * Input isolation 60 db min * Bandwidth 100-2000 Hz * Input range 32-V DC 

GARMIN GMA 340 Audio Panel...

Garmin 340 Install Tray...

Garmin GMA 347 AUDIO PANEL

The GMA 347 audio panel builds upon the successful attributes of the GMA 340 audio panel while adding benefits such as automatic squelch, digital clearance recorder, and a full-duple telephone interface. Automatic squelch option makes the entire audio e perience quieter and cleaner. Can also retain the manual squelch ad ustment feature. Three more unmuted, unswatched inputs with individual volume control. Auto- matic squelch, digital clearance recorder. Continuously captures the last two and one half minutes of audio switched through the panel. Can replay the necessary information by simply pressing the play button. It has a full-duple telephone interface with intercom isolation and disable capability. This feature allows private telephone calls by the pilot or copilot, or multi-party calls with crew and/or passengers. Integration of the G1000 s configuration module, if the audio panel is ever removed, all of the pilot's preferred settings are automatically loaded into the unit. Garmin GMA 347 Audio Panel...

Garmin GMA 347 Audio Panel...

Garmin GMA 347 Install Tray...

Garmin GMA 347 Install Tray....
**SILVER CROWN KX-165 NAV/COM SYSTEM**

The KX165 gives you access to all 200 NAV and 760 COMM frequencies, along with its optional 40-channel glidescope. In addition to its standard use offering both active and standby navigation and communications frequencies, the KX155 incorporates a number of new control features. Program up to 32 COMM channels. Pre-selected frequencies are stored in a non-volatile memory circuit, eliminating the need for backup batteries. Other new features include a bearing-to-station mode and a radio-channel when the time is right, simply push the frequency transfer button to transfer the standby window into the active window. A remote switch may be installed as an additional means of providing the flip-flop function. The KX155 provides a bright, gas plasma display that shows both active and standby navigation and communications frequencies, along with its optional 40-channel glidescope. In addition to its standard use offering both active and standby navigation and communications frequencies, the KX155 incorporates a number of new control features. Program up to 32 COMM channels. Pre-selected frequencies are stored in a non-volatile memory circuit, eliminating the need for backup batteries. Other new features include a bearing-to-station mode and a radio-channel when the time is right, simply push the frequency transfer button to transfer the standby window into the active window. A remote switch may be installed as an additional means of providing the flip-flop function. The KX155 provides a bright, gas plasma display that shows both active and standby navigation and communications frequencies, along with its optional 40-channel glidescope. In addition to its standard use offering both active and standby navigation and communications frequencies, the KX155 incorporates a number of new control features. Program up to 32 COMM channels. 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HONEYWELL AVIONICS

CROWN KLX 135 GPS/COM

The KLX 135 offers unmatched GPS accuracy, Direct-To operation, built-in CDI output and a host of other features. The KLX 135 is an avionics product that provides the navigation capability you'd expect from the leader in panel-mounted avionics. Key features include storage capacity for up to 250 user-defined waypoints and a moving map display of flight plan, waypoints, navavids, and special use airspace. In addition to an enhanced high contrast LCD display for easy readability, the KLX 135 offers broad coverage to make flying easier. Combing aeronautical and cartographic mapping with GPS navigation information, it also provides a range of additional display capabilities, from airports, NDBs, special-use airspace, rivers, roads, lakes, cities, railroad tracks and towers, to X-500 Stormscope data. Built-in GPS receiver for total situational awareness. Packed with powerful features, the KLX 135 is an extraordinary aeronautical database, along with a comprehensive roads and rivers cartographic package. A wide viewing angle and pilot-friendly operation system make it easy to use.

SILVER CROWN KMA 28 AUDIO PANEL


CROWN KA 134 AUDIO PANEL

Features: • Solid state unit containing functions of an isolation transformer and an audio control panel • Models available that operate on 14 or 28V without power supply section • International model available with third COMM switching function for F transceiver operation labeled F instead of EFT, no electrical changes • Push-button • Flat pack configuration • Measures only 1” in height • Can be integrated into 500Ω output audio system • Can control as many as 3 transceivers and 5 receivers • Can be used as passenger address, ramp hailer, or intercom • Can be coupled with WR-22-King Marker Beacon Receiver/Lights to provide complete audio panel/marker package • 14 or 28V operation • TSO'd

CROWN KLN 35A GPS

The KLN 35A is a standalone GPS identical to the KLX 135A except that it is the KLN 35A that provides the navigation capability you'd expect from the leader in panel-mounted avionics. The KLN 35A provides accurate satellite navigation capability with moving map displays for increased situational awareness. It features eppesen NavData for data base updates via 3.5 diskette. The moving map display shows flight plan waypoints, navavids, and special use airspace, and the KLN 35A has enhanced, high contrast LCD display for optimum readability. The KLN 35A is an outstanding GPS value with the Bendix/King reputation for quality avionics products.

SILVER CROWN KMA 24 AUDIO PANEL

HONEYWELL KITS - NARCO

### KING INSTALLATION KITS

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### NARCO MK 12d+ NAV/COM

The MK 12d features a powerful 760 channel communications transceiver which delivers crystal-clear audio with automatic leveling on both transmitter and receiver. It also contains a 200 channel VOR NAV which is compatible with SIs, RNAV systems VOR RMs and the companion ID 824 or ID 825 indicators. The MK 12d is 100% solid-state microprocessor controlled and fully TS0 d. It offers simultaneous display of active and standby frequencies and a flip-flop transfer of both. All readouts are digital and the unit is compact, low-profile and self-contained. Size 6-1/4 in. x 2-1/2 in. x 1-1/2 D. t. 5 lbs. Specify 14V or 28V.

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### NARCO ID 825 NAVIGATION INDICATORS

These TS0 d navigation indicators are companion units for the NARCO MK 12d NAV/COM transceivers. The ID824 indicator features rectilinear movement and a rotatable omni bearing scale and is used with the MK 12d NAV/COM without glideslope. The ID 825 VOR/LOC/GS indicator is similar to the ID 824 unit but includes glideslope capability and is used with the MK 12d NAV/COM with glideslope.

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<tr>
<td>NARCO PAK II NAV/COM 28V</td>
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### KING KI208A-10 VOR/LOC INDICATOR

The KI 208A VOR/LOC Indicator with VOR/LOC Converter and GPS Switching Relays has internal lighting. Internal relays allow switching between V F Nav and GPS. It is used with the MK 12d NAV/COM with glideslope. It is used with the KX 155 or KX 155A and KLN 89, KLN 89V, or KLN 94. Specifications: eight 1.00 lbs. 0.45 kg * idth 3.25 in. 8.26 cm * Power Required 14/28 VDC 60 mA ma.

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
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<tr>
<td>NARCO PAK II NAV/COM 28V</td>
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### NARCO RADIO PACKAGE II

Includes MK 12d NAV/COM transceiver with glideslope and ID 825 VOR/LOC/GS indicator with glideslope. Specify 14V or 28V.

<table>
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### MK 12D/R NAV/COM REPLACEMENT

The MARK 12D/R was developed in order to provide pilots with a very cost effective way to update their avionics, to state-of-the-art capability and performance. And meet new FCC/FAA requirements without incurring the high cost of a complete installation re-do. The MARK 12D/R directly replaces the MARK 12, MARK 12A, MARK 12B, utilizing the existing indicator. Features: Direct Replace Capability + 760, COM Channels and 200 NAV Channels + TSO'd Microprocessor Design + Simultaneous display of active and standby frequencies + Glideslope and DME Channeling + Automatic audio leveling + Unique “Keep-Alive” option available.

<table>
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<tr>
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<tbody>
<tr>
<td>MK 12D/R NAV/COM</td>
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<tr>
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</table>

### MK 12D NAV/COM CESSNA REPLACEMENT

Directly replaces the NAV/COM 300 series RT 308 through RT 328C radios. 100% solid state and TSO s, this unit provides simultaneous display of active and standby frequencies, flip-flop capability, automatic trimming, and digital readouts. 760 channel COM transceiver and 200 channel VOR NAV receiver. Easy to install and service and self-contained.

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>MK 12D/R NAV/COM</td>
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</table>
NARCO AVIONICS

NARCO NAV 122D/GPS

Narco has re-introduced the NAV 122, in the form of the totally new, surface mount designed NAV122D. NAV122D/GPS. The NAV 122D is a totally self-contained 200-channel, VOR NAV 122D/GPS receiver, 14VDC. required Left/Right Indicator, in IFR approved GPS or multi-sensor systems installations. Power 14VDC.

The NAV 122D/GPS is the same as the NAV 122D except it will include a resolver, thus having the additional capability of being utilized as the required Left/Right Indicator, in IFR approved GPS or multi-sensor systems installations. Power 14VDC.

NARCO NAV 122D/GPS w/ Resolve P/N 11-14095

CA OR SPECIA PRICE

NARCO AT 165 MODE C TRANSPONDERS

The AT165/R is a transponder offered to replace the NARCO AT150, AT50A, AT150, AT155 transponders in an existing installation utilizing the already installed tray, cables and antenna. The Narco AT165/R transponder has a high power 250 watt transmitter featuring 4096-code capability and reliable TOTAL solid state design. An innovative backup display, one touch VFR, easy-grip data entry knob, and altitude hold alert are just a few of the special features found in the innovative backup display, one touch VFR, easy-grip data entry knob, and altitude hold alert are just a few of the special features found in the Narco AT165 Series transponders.

Narco AT165 Series Transponders - Dual Display

M e Narco PN Description ACS PN Price
AT165 03609-0300 Digital Transponder 11-02761
AT165R 03609-0301 Direct Narco Replacement 11-03594
AT165K 03609-0302 Direct King Replacement 11-02689
AT165KA 03609-0303 Direct King Replacement KT76A KT76B 11-03001
AT165KCA 03609-0304 Direct King Replacement RT35A RT35B 11-04329
AT165C 03609-0305 Direct Cessna Replacement RT35A RT35B 11-04329

Narco Antenna AT165 .................. P/N 11-04328

Quick Shot Avionics Reference Manual

Quick Shot is a compact, rugged binder type manual which shows detailed wire pin-outs for a wide variety of general aviation avionics equipment. Each page is removable and very durable. The wiring diagrams in Quick Shot Volume I include Apollo, PS, Bendix, Garmin, Icom, Sandel Mid-Continent, Sigtronics, Pitts, Tele, David Clark, PS Engineering, Narco, Val and many more.

P/N 11-01623

Pro Hub

The Fast Stack Pro is a revolutionary product that allows you to easily install and connect avionics into an existing aircraft or one you are building. The Fast Stack Pro was designed to connect and control most NAV/GPS/COM, modern audio panels, intercoms, VOR indicators, moving map displays, RT508A, RT528A, RT328C, RT328D, and RT328E. The MX 300 in the black face plate shown above or in a beige face plate to match many Cessna panels. The MX 300 operates on 13.75vdc with 7 Amps maximum current. 

NC 2210A NAV/COM Ramp Tester

The NC 2210A is a NAV/COM Ramp Tester. The unit has improvements over the 2200, which it replaces. The improvements include the following: Higher RF power • Precise IAF and glide slope deflection • Calibrated VOR bearings at 10 degree increments • Crystal-controlled modulation frequencies • Longer battery life • Internal antenna with adjustable length • Smaller size. Specifications: • Size: 3.8 x 7.4 x 2.3” • Weight: 1.3 lbs. • Power: Internal battery with over 2 hours running time (110VAC charger included) • Warranty: 2-year from date of purchase.

P/N 11-01613

MC 60 NAV CONVERTER

The TMK MC 60 is designed to provide a display for a variety of NAV signals including ILS, LOC, Back course, LOC, GS, GPS, and MB. The VOR display includes a Left and Right bar graph with an OBS and a tracking mode with reciprocal selection. If a GPS is selected by grounding the enable line, the VOR is switched off. The TC3210 is a NAV/COMM Ramp Tester. The unit has improvements over the 2200, which it replaces. The improvements include the following:

P/N 11-04594

TKM MG200 GLIDESLOPE RECEIVER

At last, it’s back! The MG 200 Glide Slope Receiver, a marvel of avionics engineering from TKM, is an advanced safety instrument designed to provide pilots with the ability to safely land in marginal conditions. The TKM MG 200 GLIDESLOPE RECEIVER is capable of handling your NAV/Com needs.

P/N 11-06868
ICOM RADIOS – TRANSCEIVERS

ICOM A210 COMM TRANSCEIVER

Innovative airband that’s easier to install and see in more places. Large, bright OLED display - A F ed mount V F airband first. The IC-A210 has an organic light emitting diode OLED display. The OLED display emits light by itself and the display offers many advantages in brightness, vividness, high contrast, wide viewing angle and response time compared to a conventional display. In addition, the auto dimmer function adjusts the display for optimum brightness at day or night.

Easy channel selection - Its fast and easy to select any of memory channels in the IC-A210. The flip-flop arrow button switches between main and stand-by channels. The dualwatch function allows you to monitor two channels simultaneously. In addition, the auto stack memory stores the last 10 channels used and allows you to recall those channels easily.

GPS memory function -hen connected to an external GPS receiver equipped with an airport frequency database, the frequency data such as nearby airports can be transferred and made available in the IC-A210.

Features
- TSO version planned Pending as of uly 2007
- 10 regular memory channels with a 6-channel name
- 200 group memory channels. 20 Ch 10 banks with a channel tag
- NOAA weather channel receive -SA version only
- One touch access to 121.5Mz emergency frequency
- Side tone function for monitoring your voice with headset
- ANL Automatic noise limiter function reduces pulse type noise
- Remote control capability
- Time-out-timer
- VFO scan
- PC programming capability
- Dial lock and panel lock
- Squelch test function

ICOM PS-80 BASE STATION POWER SUPPLY

The PS-80 offers quick, easy installation of the IC-A210 in one compact desk-top unit that combines a power supply, speaker, microphone, headphone and antenna connectors.

Power Supply is user selectable for 110 or 220/240 V AC operation and supports a full 1 watt transmitter output. Large internal speaker booms out 5 watts of audio. Microphone, headphone and antenna connectors are standard in the PS-80 so no wiring is necessary. Just plug in your selected hand or desktop microphone or headphone and outside antenna and you’re on the air. Optional SM-6 Desktop Microphone, M-7 or MIC - and Microphone and B-ANT Base Station Antenna to complete the package are available and sold separately.

Specifications
- Input voltage * 117 V AC +/- 10, * 220 V AC +/- 10, or * 240 V AC /- 10 selectable
- Output voltage 13.8 V DC /- 5 negative ground
- Output current 6 A * Duty rate 1 hour for ma inum current * Ripple voltage Less than 20 mVrms * selectable Temperature Range -10 C to 40 C 14 F to 104 F * Dimensions projections not included 200 300 D mm 7.9 11.8 D in
- * eight 6.0 kg 13.2 lb
- Dimensions Lower 1.5kg 3lb. 5 oz.
- Specifications 430g/14.1oz
- E posed dial face 56.4mm 2 1/4 inches
- Certification Not TSO
- Output power 5 carrier, 16 pep
- Modulation small stage modulation
- Modulation limiting 70 to 100
- Audio harmonics distortion Less than 15 at 85 modulation
- um and noise ratio More than 40dB
- Spurious emissions -16dBm or less
- Antenna impedance 50
- Receive system Double conversion superheterodyne
- Intermediate frequency 1st 38.5Mz pper 2nd 450kz
- Sensitivity at 6dB 5/SN. Less than 1 OuV
- Squeal sensitivity 0.5uV Threshold
- Selectivity More than 8k at 6dB, Less than 25k at 60dB
- Spurious response rejection More than 60dB
- Audio output power More than 4 at 8
- Side tone More than 100m at 600
- um and noise More than 30dB
- Audio output impedance E 1 SP 4 to 8, Side tone 600
- 2/4 panel mount

ICOM A210B PS-80 Microphone........... P/N 11-18581..............

ICOM A110 VHF AIR BAND TRANSCEIVER

The Icom IC A110 is rugged and reliable for serious ground crew communications. The IC-A110 can be installed in any vehicle and is adaptable to vehicles working on 12V or 24V power sources. The unit features a front mounted speaker, free from any obstacle blocking and puts out 10 of power for the e-ternal speaker. Dial select frequencies or memory channels. A total of 99 memory channels are available requires CSA110 v2 software to be programmed. p to 7-character names can be assigned to each channel.

Features
- Equipped EEPROM system provides maintenance free memory backup capability, without the use of a separate backup battery
- Various scan functions, such as VFO and priority scans are available
- Limited number of keys for simple manipulation, but providing advanced multi-functions
- A total of 20 memory channels are available
- Ideal compact size of 150 X 50 180 D mm to mount in various type of vehicles
- 36 pep of powerful output
- E cellent durability to cope with even the toughest workplace
- Memory channel only operation possible via PC programming and Microphone supplied

Specifications
- Dimensions 150 50 180 D mm
- Eight 1.5kg 3lb. 5 oz.
- Mode 6KQG3E AM
- No. of memory C 20
- Antenna Connector SO-239
- Power supply requirement 13.75 VDC
- Current drain Transmitting 5.0 A ma, Receiving 4.0 A
- Operating temperature range IC-A110 -30 to 60 C
- IC-A110E RO -20 to 55 C
- Frequency stability IC-A110 2 ppm
- Icom IC A110-05B Base Station...........P/N 11-02781..............
- Icom IC A110-05B Panel Mount...........P/N 11-04352..............

FLIGHTLINE FL 760 TRANSCEIVER

Introducing the FlightLine FL 760 - one of the smallest and lightest V F Transceivers in the industry.

Specifications
- Frequency range 118.00 to 136.975Mz Receive 108.00 to 136.975Mz
- Channel spacing 25kz
- Mode AM 6KQG3E
- Number of memory channels 32
- Acceptable power supply 11.7 V or 33 VDC
- Negative ground only
- sable temp. range -20 to 60
- Frequency stability 2 Ppm
- Current drain TX 3A ma, RX 0.8A ma
- Standby 300mA
- Dimensions 61 X D159 X 61 mm
- eight 430g/14.11oz
- E posed dial face 56.4mm 2 1/4 inches
- Certification Not TSO
- Output power 5 carrier, 16 pep
- Modulation small stage modulation
- Modulation limiting 70 to 100
- Audio harmonics distortion Less than 15 at 85 modulation
- um and noise ratio More than 40dB
- Spurious emissions -16dBm or less
- Antenna impedance 50
- Receive system Double conversion superheterodyne
- Intermediate frequency 1st 38.5Mz pper 2nd 450kz
- Sensitivity at 6dB 5/SN. Less than 1 OuV
- Squeal sensitivity 0.5uV Threshold
- Selectivity More than 8k at 6dB, Less than 25k at 60dB
- Spurious response rejection More than 60dB
- Audio output power More than 4 at 8
- Side tone More than 100m at 600
- um and noise More than 30dB
- Audio output impedance E 1 SP 4 to 8, Side tone 600
- 2/4 panel mount

P/N 11-06307......................
Virtually all these avionics are in Serviceable condition. This is an FAA term that means that the radios have been repaired as needed, tested according to the manufacturer's procedure, and meet the manufacturer's performance specifications. These radios are legally approved for installation and use. These radios come with either an 8130-3 Service Tag. Both tags carry that the radio is in Serviceable Condition. The difference is the geographical area where the tag is accepted. The 8130-3 tag is accepted in North America, while the 8130-3 tag is accepted worldwide. Generally 8130-3 tags are issued for our radios, because we rarely know exactly where it will be sent when it is in the shop. With an 8130-3 tag, we know that it can be used by any of our customers. Serviceable units carry a 90 day warranty. All used avionics are subject to availability, and will be shipped with the tray and connector included. Prices can vary. Please specify 14V or 28V when ordering.

**SM**

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<td>King KLN-904 IFR-Approach GPS / Moving Map System</td>
<td>11-0683</td>
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**MCCOY**

<table>
<thead>
<tr>
<th>Part Number</th>
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<tr>
<td>McCoy MAC-1708 NAV / COMM</td>
<td>11-0613</td>
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<td>McCoy MAC-1708 VTX NAV / COMM</td>
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**NARCO**

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<td>Narco COM-810 NAV / COMM Transceiver</td>
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<td>Narco COM-811 NAV / COMM Transceiver</td>
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<td>Narco DME-890 DME</td>
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<tr>
<td>Narco ID-824 VOR / LOC Indicator</td>
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<tr>
<td>Narco ID-825 VOR / LOC / Glidescope Indicator</td>
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<tr>
<td>Narco Mk-1-2D NAV / COMM ARC Cessna Replacement</td>
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<td>Narco Mk-1-2D NAV / COMM ARC Cessna Replacement</td>
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**SANDL**

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<td>Sandel SN-3308 Electronic SIF</td>
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**TERRA**

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<td>Terra TR-250D Transponder</td>
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**TKM**

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<td>TKM MX-11 NAV / COMM</td>
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<td>TKM MX-176 NAV / COMM</td>
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<tr>
<td>TKM MX-310 NAV / COMM</td>
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<tr>
<td>TKM MX-385 NAV / COMM</td>
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CDIS - RELAY ASSEMBLIES

Mid-Continent 2 Inch CDI

This indicator will fit the need of aircraft owners of LSA all the way up to business aircraft. The CDI allows for precise and accurate readings. Nav, GPS and VLOC annoncement aer-built and backlit by LED lighting, providing enhanced nighttime and sunlight readability. The CDI has TSO approval from the FAA and will interface with most nav and GPS receivers.

- Compact 2-1/4 inch size saves panel space
- Innovative Safety Feature pointers move out of view with invalid signal
- Precision replacement for older navigation indicators
- Rectilinear motion movements allow for more accurate readings
- LED backlighting looks great and provides increased reliability.
- Built-in annunciators for NAV, GPS, and VLOC or BC.
- FAA TSO approved for use with most GPS and VLOC systems.
- Rugged construction includes ball bearings in critical areas.
- True course resolver output 1 volt. 30 x
- Utility Mil-Spec connectors included
- One year limited warranty

Specifications
- Power Input: Accepts 11 to 32 Volts DC.
- Lighting: Internal white LED. Lighting control voltage is selectable for 5, 14, or 28
- eight 0.6 lbs.
- Length: 3.5 inches
- Mid-Continent - CDI MD200-406 This unit has the NAV/GPS VLOC annunciators for the Garmin units. P/N 11-05016
- Mid-Continent - CDI MD200-406 This unit has the NAV/GPS BC for all other applications. P/N 11-05107
- MD200-306 CDI GS Indicator. P/N 11-00184

Garrecht Transponder Class 1 and Class 2

The Garrecht Transponder VT-01 is a flexible and modular system concept, in a compact size 57mm with a very low current consumption. Available as Class-1 125 att or Class-2 71 att System. The Garrecht Transponder has TSO approval from the FAA and will interface with most nav and GPS receivers. The transponder can be used with a variety of GPS receivers and systems, including the Garmin and Lido units.

Specifications
- Certification: I.A.W. ETSO-2C112a, ED-73B
- Min. RF Output power: For Port 123 crn Watt Class 2 7 Watt Class 2 2 Watt
- Integral adders: Yes
- Weight control unit: 0,21 kg
- Weight main unit: 0,61 kg
- Power consumption (Standby) @ 13,8 V: Class 1: 0,17 A Class 2: 0,16 A
- Power consumption (operation) of the antennas: Class 1: 125 Watt Class 2:71 Watt

- Integral adders: Yes
- Weight control unit: 0,21 kg
- Weight main unit: 0,61 kg
- Power consumption (Standby) @ 13,8 V: Class 1: 0,17 A Class 2: 0,16 A
- Power consumption (operation) of the antennas: Class 1: 125 Watt Class 2:71 Watt

Remote Switching Relay Unit

Remote mounted 24-poal unit features eight nitrogen-filled relays 3 poles per relay with Gold-plated contacts.

- Ideal for GPS/VOR transfer and audio switching applications
- Relays are activated individually by voltage or ground keying or as a group by ground keying
- FAA PMA approved certified to 55,000 ft. Versatile mounting - horizontal, vertical or flat mount configurations
- Fail-safe fault monitoring through interlocking of all internal relays
- Adjustable diode output for e ternal annunciators
- Utility Mil-SPEC connector kit included
- Specifications: Width 2.86
- Height 1.52
- Depth 2.6
- .75lbs

AvMaster Relay 14V & 28V

The AvMaster Relay is the first and only self-contained, fail-safe, avionics master relay package to protect you from expensive radio failure at an affordable price. The AvMaster Relay is installed between the power bus and the protected radios. The Avionics Master Switch then controls the AvMaster Relay only and not the radios directly. Not only does the AvMaster Relay protect the system but it also transmits ground keying spikes during normal operations, its four parallel relay controlled, surge protected circuits allow for individual fusing that separate all radios from each other.

The avionics master switch is a great idea. It protects against the large power surge potential during start up and shut down. It is also useful to prevent premature wear of each radio’s switches and allow the benefit of maintaining the volume settings. But, it has a major weakness. An Avionics Master Switch must be a potential single point of failure. If it fails, all radios shut down. A second Avionics Master Switch has been used as the solution to this problem, however, this offers no protection on and it still connects all radios together. An overload in one radio can potentially spill over to the whole avionics circuit.

The fail-safe design of the AvMaster Relay eliminates the need for a backup Avionics Master Switch. If the Avionics Master Switch ever fails, the pilot won’t even realize it until after the flight is over and the Avionics Master Switch doesn’t shut down the radio stack. The radios will be controlled individually until the problem is resolved. The AvMaster Relay will pay for itself with fewer repairs over the increased lifetime of the avionics stack.

- 14 Volts P/N 11-04857
- 20 Volts P/N 11-04858

AN-21 Annunciator Control Unit

The AN-21 is a light and warning tone generator for use in e perimental aircraft. A total of twenty-one channels can be monitored, six of which are activated by ground and six by on-board input. Each channel activates a light and emits a warning tone when triggered. The AN-21 also includes a windows Programming utility to enable the user to configure it for each specific installation. Each channel, when activated, has an associated user programmable output which can be programmed to do the following:

- Steady light, Flashing light, Alert Tone with steady or flashing light.
- Features Master Caution - ser selected channels can trigger a Master Caution Annunciator • Test Function - Causes all lamps to illuminate to check the bulbs • Dim - Causes all Lamps to illuminate a selected lower brightness for flight operation. P/N 11-04701

Ted 4-70 GPS Notch Filter

our global positionering system receives its positional information at 1575.42 MHz. The communications radio on-board your aircraft typically broadcast in the 121.5 kHz range. While a wide separation in frequency band-width but it’s not the complete picture. Our comm’s are also producing harmonics which can produce significant noise at the GPS frequencies. You can filter that signal and avoid potentially hazardous situations.

A simple low cost way to clean up the receivers frequency environment. The Ted 4-70 notch filter installs quickly and easily via standard BNC bayonet couplings, in-line between radios and antenna. This 4-70 re ects the ccess of 50DB at 1575.42 MHz at the source. Each filter is individually tuned and checked to assure it ma in performance. Of course, the 4-70 also passes strenuous environmental criteria so important in aircraft applications. Ma or GPS manufacturers recognize the problem with this filter. P/N 11-012004
AVIONICS COOLING FANS - SCREEN PROTECTORS

TROLL AVIONICS COOLING FANS

THE ICE BOX - Avionics cooling fan is designed to mount remotely and cool up to 3 radios. It is shielded and filtered and uses standard 5/8 CAT type hose to direct air from 3 outlet ports. Thickness of the unit is only 1.4, and it operates on 14 or 28 volts. Ice Box offers a thin profile, like mountable, and very quiet operation. 2 yr warranty.

SUPER ICE BOX - Same as above except w/5 outlet ports instead of three, to cool 2-5 tra radios. 12V ........P/N 11-18365 ...........
28V ........P/N 11-18370 ...........

CYCLONE - The Cyclone-21 is a compact 3 3 1 aircraft electronics cooling fan that delivers 21 cubic feet per minute of forced air cooling to a variety of avionics equipment. 3-port 12V fan .......... P/N 11-18380 ...............
3-port 24V fan .......... P/N 11-18381 ...............
6-port 12V fan .......... P/N 11-18382 ...............
6-port 24V fan .......... P/N 11-18383 ...............
5/8 fan tubing .......... P/N 11-00504 ...............

AMERI-KING AVIONICS COOLING FANS

The Ameri-king AK-950F is a part of a FAA TSO d appoved, kit. GPS/Avionics fan is compact and delivers up to 26.6 CFM cubic feet per minute of forced air cooling to a variety of avionics equipment. It features ball bearing for highest reliability and long lasting. The AK-950F fan may be behind or beneath aircraft instrument panel or avionics equipment rack or capin pressure bulkhead. The small, one port direct mounting fans Fd are for internal cooling and there is a second port for e cemal cooling. No remote hose is required.

Features include power reverse polarity protection compact size choic-es of 1, 2, 3, or 5 hose outputs universal mounting hoses connector kit and hardware included. 4-year e tended warranty. Size for 1-3 ports L-5.75 - .5130 - 2.080. 5 ports L-6.75 - .5130 - 2.080. Small Fd port L-2.60 - 2.5 - 2.5. Power 14 or 28 VDC.

Description 14V P/N 28V P/N Price 28V P/N Price
1-port w/hose 11-18385 11-01416
2-ports w/2 hoses 11-18386 11-01417
3-ports w/3 hoses 11-18387 11-01418
5/8 hose 11-18388 11-01419

AMERI-KING AK950-FTR RFI DC LINE FILTER

The AK950-FTR RFI DC line filter is the only TSO approved RFI filter available. The AK950-FTR was designed to replace all i onic RFI filters. It replaces ionic RFI-40, RFI-70, and RFI-100 filters. Works on 40-100 amp opera-tion, working voltage is 30VDC. FTR1 designed to reduce noise from alternator or generator.

AK950-FTR pictured. P/N 11-00182
AK950-FTR1 pictured. P/N 11-00183

SANDIA ACF 314 (3 PORT FAN)

The ACF 314 and ACF 328 simultaneously cool up to three avionics units. Operating on 14Vdc and 28 Vdc respectively the ACF 314 and ACF 328 supply up to 20 cubic feet of cooling air per minute, helping maintain your avionics at a proper operating temperature. SANDIA Aerospace cooling fans use high quality, brushless blower motors and run-quiet technology. These units are FAA PMA’s and have passed stringent environmental testing to ensure years of reliable service. Specifications - Operating Voltage: 14Vdc - Current Draw: 960mA (1.7A at startup) - Size: 5.18” x .518” x 2.1” - Weight: 1.18 lbs. P/N 11-06345

CYCLONE 600 - 6 PORT AVIONICS COOLING FAN

The Cyclone-600 is a light weight, highly reliable brushless DC avionics blower that delivers 45-50 CFM of forced air to onboard aircraft electron-ics. The universal mounting system mounts vertical, horizontally or at 45 degrees for straight forward installations for all aircraft make and models.

Specifications
* New DC Brushless Motor with FAA/PMA Approval.
* High Performance 626 Bearing for Extended Life.
* High Impact Phenolic housing.
* Laser Balanced Impeller wheel.
* Universal Front Plate 4,5,6, Ports.
* Cable Ames 36, included.

LONE STAR 12/24 VDC BLOWER KIT

Lone Star Aviation’s new 1 port blower is the smallest 1 2 2, most efficient brushless dc motor, and the most versatile avionics cooling fan in our industry today. This new blower’s universal mounting bracket makes it easy to set-up and install on a variety of aircraft. Install immediately on e gential, sport and soon on general aviation, business, rotor-craft, general class aircraft as well as Large-Mobile, Marine and Military Vehicles.

Specifications
* Light weight 52 grams, 0.115 lbs
* Enclosure Aluminum, powder coated
* Vdc, amperage: 12 = 10.2-15.8Vdc, 0.320ma
* Vdc, amperage: 24 = 18.2-28.5Vdc, 0.320ma
* 1 port = 5/8 inch x 1.0
* Max Static Pressure: H2O = 0.64
* Ma Air Flow 6.7 CFM
* Universal Mounting Bracket 4 mt h
* Operating Temp -55C to 70C
* FAA/PMA Approved
* Locked Rotor Protected
* Over Current Protection
* Cable harness 36 , included.
* Universal Front Plate 4,5,6, Ports

NAVIGATION SCREEN PROTECTORS

The Pre-cut navigation screen protectors provide e cellent protection from scratches. The anti-glare layer reduces unwanted reflections, increasing contrast, clarity, and viewing comfort even with the use of polarized lenses. This film is thick enough to protect the screen, yet thin enough to have no effect on touch screen sensitivity. Light back adhesion provides for residue-free removal. Does not require spe-cial cleaners. Available for ADR, Anywhere Map, Avidyne, Apollo, Chel-ton, Eclipse Avio, Garmin, King, Vista Nav, and more.

Description Part No. Price

Description Part No. Price

527
COM TRANSCEIVERS

XCOM VHF TRANSCiever

Designed from the ground up the XCOM offers superior performance under the demanding and noisy conditions encountered in many amateur built aircraft. Its low power consumption this radio is ideally suited to use in gliders, homebuilts, and ultralights. A fully 6 Watt carrier and 20 Watt FEP output ensure that you will be heard above the general chatter in a busy airspace and the VOX intercom system with music input will enhance your enjoyment of the flight. In the event of receive range from 108 Mhz, the XCOM760 provides NOAA weather reception ensuring that you are always aware of impending weather conditions. The XCOM 760 will also operate down to a 108 Mhz so you can receive the VOR channels. Additional safety enhancements such as dual watch allows the pilot to listen to the standby frequency while still monitoring the primary frequency. The XCOM 760 also has 99 memory channels, large volume and channel selector knobs and well spaced buttons. This radio is very easy to operate even when wearing flight gloves and you can even check the condition of your battery with the built in voltage monitor. Software update capability and internet downloads mean that you are always provided with the latest features. The XCOM 760 offers superior quality, enhanced features and improved performance over many of the more expensive airband radios, without the high cost found in other brands. FEATURES: • New easier to read LCD screen • Several software updates • Memory scanning of up to 99 memory channels • Streamlined software increasing reliability and performance • Music/Second comm input is now user selectable for another VHF, F or Music input • Added sidetone volume adjustment • Improved AGC controls for close and powerful stations • Improved speaker output for glider operations

P/N 11-0226

COM INSTRUCTIONAL DVD WIN XP

Instructional DVD explaining the complete operation and set-up of the XCOM V F Transceiver. 30 minutes duration.

P/N 11-05674

COM UNIVERSAL STAINLESS STEEL MOUNTING BRACKETS

Designed for the XCOM V F aircraft transceiver but equally suitable for any other radio or instrument with the same 2 1/4 inch mounting hole. Can also be used in the Marine or automotive environment. Manufactured from 2 mm thick 304-2B grade stainless steel for strength and corrosive resistance. Two 6.5 mm holes are provided for conveniently mounting switches such as the intercom ON/OFF/isolate and the backlight switch. Blanking plugs are factory fitted to maintain the appearance if the holes are not used. Can be installed in any orientation e.g. left, right, top or bottom switches can be mounted horizontally or vertically. Supplied complete with stainless steel screws, washers and nylon nuts for a secure installation, supplied with earthing strap fitted to the bracket for connection to the radio earth with a quick connect earthing point provided for bonding to the aircraft ground.

P/N 11-05676

XCOM DUAL ALUMINUM BRACKET

This water cut bracket is ideal for mounting two XCOM's side-by-side in a normal aircraft rack mount system. Cut to the exact size it is designed to hold XCOM in 2 mm aluminium ready for painting.

P/N 11-05679

COM GLIDER BOOM MICROPHONE

Boom Microphone - More than 1200 made and used all over the world, 3 year guarantee.

P/N 11-05675

COM GLIDER SPEAKER

Glider Speaker - Clear sound and easy to understand 5 watts output 8 ohm.

P/N 11-05676

XCOM POWERMATE REGULATOR

The Power Mate regulator is designed to provide a clean DC power source to charge a 12Volt battery when connected to a single phase alternator found on Rota and abiru engines. The output voltage is electronically stabilised and preset to a maximum output voltage of 14.5V. 8 Amps. The Power Mate has inbuilt overload protection and is supplied with a 15 amp fuse and mounting instructions.

P/N 11-05673

XCOM VOLTAGE CONVERTER 15-38V

Switch mode voltage converter with soft shutdown and intelligent control. Input Voltages 15 to 38 Volts, Output 13.2 Volts 7 amps. Compact, efficient, short circuit protected, reverse polarity protected, low output voltage is electronically stabilised and preset to a maximum output voltage of 13.2V. 7 Amps. The Power Mate has inbuilt overload protection and is supplied with a 15 amp fuse and mounting instructions.

P/N 11-05680

COM FLIGHTCELL 2GO PHONE ADAPTER

Flightcell 2Go connects your cellphone through to your headset with amplified sound for quality audio communications. Features: • Compatible with stereo and mono systems. • Portable & battery powered, works independently of aircraft systems. • Proven Flightcell technology as used by US Air Force. • Auto-on mode - plug and fly. • EMI immunity for GSM and Nextel (Den) phones. • LED battery and talk/stand-by indicator.

P/N 11-05677

COM STEREO VIDEO PATCH CABLE

Seamlessly connect a Stereo or Mono Video Camera, Tape Recorder or Digital Voice Recorder into your aircraft headphones and record all communications between the Pilot and Co-Pilot/ATC and other Aircraft. Perfect for making your own aviation videos with crystal clear narration, flight training or many other uses.

P/N 11-05658
ACK A-30 ALTITUDE ENCODER

Add Mode C capability to your aircraft the most cost-effective way. The ACK encoder is the smallest, lightest, highest quality encoder available today and features the latest solid-state electronics for high reliability. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with most Transponders in use today and reports altitude to 30,750 ft. Includes quick-release mounting tray. It costs 5.9 oz. and ill operate on either 14 or 28 VCD at 0.270 Amps. 

ACK A30.8 (MOD 8) ENCODER

The ACK A30.8 Mod 8 encoder is ideal for use with most GPS and TA -5 systems, and works well with most of today's mode S transponders. Feature Gray code in 1000 increments and R-232 in 10 or 100 feet increments. Furnished with a 4 ft. harness, pre-wired ack, quick release mounting tray, fittings, static line, and installation manual. Reports altitude to 42,000 ft. One year warranty.

SANDIA SAE5-35 ALTITUDE ENCODER

The SAE5-35 encoder from Sandia is small 1 high, lightweight 12 oz. and utilizes Gillham Gray code in 100 resolution for optimum performance and accuracy. Features two RS-232 outputs in 10 foot resolution, simplifying installations. All connectors are on the same side for easy mounting, and digital calibration eliminates analog drift. Altitude In-Flight Monitoring A/M mode alerts the pilot when he strays off altitude. Requires virtually no warm up time and uses very little power. Fully TSO d and backed by factory 3 year warranty. Power 11-33VDC. 

SMALL ALTITUDE ENCODERS

The HCM-100 encoder is small 1 high and lightweight 12 oz. and utilizes Gillham Gray code in 100 resolution for optimum performance and accuracy. Features two RS-232 outputs in 10 foot resolution, simplifying installations. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with most Transponders in use today and reports altitude to 30,750 ft. Includes quick-release mounting tray. It costs 5.9 oz. and ill operate on either 14 or 28 VCD at 0.270 Amps.

The ACK A30.8 Mod 8 encoder is ideal for use with most GPS and TA -5 systems, and works well with most of today's mode S transponders. Feature Gray code in 1000 increments and R-232 in 10 or 100 feet increments. Furnished with a 4 ft. harness, pre-wired ack, quick release mounting tray, fittings, static line, and installation manual. Reports altitude to 42,000 ft. One year warranty.

The ACK encoder is the smallest, lightest, highest quality encoder available today and features the latest solid-state electronics for high reliability. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with most Transponders in use today and reports altitude to 30,750 ft. Includes quick-release mounting tray. It costs 5.9 oz. and ill operate on either 14 or 28 VCD at 0.270 Amps. 

NARCO R850 ALTITUDE ENCODER

The R850 encoder is small 1 high, lightweight 12 oz. and utilizes Gillham Gray code in 100 resolution for optimum performance and accuracy. Features two RS-232 outputs in 10 foot resolution, simplifying installations. All connectors are on the same side for easy mounting, and digital calibration eliminates analog drift. Altitude In-Flight Monitoring A/M mode alerts the pilot when he strays off altitude. Requires virtually no warm up time and uses very little power. Fully TSO d and backed by factory 3 year warranty. Power 11-33VDC.

The ACK A30.8 Mod 8 encoder is ideal for use with most GPS and TA -5 systems, and works well with most of today's mode S transponders. Feature Gray code in 1000 increments and R-232 in 10 or 100 feet increments. Furnished with a 4 ft. harness, pre-wired ack, quick release mounting tray, fittings, static line, and installation manual. Reports altitude to 42,000 ft. One year warranty.

ICARUS MODEL 3000U

The Icarus Model 3000 Altitude serializer connects to the e ister Mode C encoder in the aircraft. It converts the gray-code into a decimal format and sends it to the GPS receiver using a serial connection. It will function with Trimble,Garmin 150, Northstar, and Apollo GPS receivers.

Features

- Northstar has tested and approved the 3000 for use with its GPS receivers.
- Garmin has tested and approved the 3000 for use with its approach approved GPS receivers.
- Trimble Navigation has tested and approved the Model 3000 for use with its GPS aviation receivers.
- JIM Mon has tested and approved the Model 3000 for use with all of its GPS aviation receivers.

Specifications

- eight 5oz.
- Power requirements: 10 to 30 vdc at 20 ma. must be fused
- Size 4.2 x 3 x 1

M.E. Model Price

ACK-350 30,000 ft. 11-12010
ACK-35 35,000 ft. 11-12011
ACK-40 40,000 ft. 11-12012
ACK-50 50,000 ft. 11-12013
ACK-60 60,000 ft. 11-01250

Microair EC2002 Altitude Encoder

Microair Avionics is pleased to announce the EC2002 altitude encoder. The EC2002 will accurately report the aircraft's altitude from -1000 to 35,000 ft. The altitude output will be the 10 line Gillham Gray code. The EC2002's accuracy has been measured as a 40 foot drift over 35,000 feet. The EC2002 will have the lowest power requirements of any altitude encoder today. The EC2002 will have a typical current consumption of 10 90mA, this makes the EC2002 the logical choice for all battery only operators. The EC2002's small size and light weight make installation very simple. The chassis is flanged, and is predrilled with mounting holes for easy attachment. The connections for the EC2002 consist of the well known DB-15 electrical connector with pin assignments identical to many e ister encoders, and a 1/8 NPT fitting which is an industry standard for aircraft equipment. These connections make the EC2002 compatible with all ATC transponders currently available.

The ACK encoder is the smallest, lightest, highest quality encoder available today and features the latest solid-state electronics for high reliability. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with most Transponders in use today and reports altitude to 30,750 ft. Includes quick-release mounting tray. It costs 5.9 oz. and ill operate on either 14 or 28 VCD at 0.270 Amps.

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### MICROAIR 760 COM REVISION P

**MICROAIR 760 COM REVISION P**

- Designed and manufactured in Australia, the Micro Air 760 V F transceiver is ideal for aircraft requiring compact size and low power consumption. It has many of the features not found in radios costing much more and includes features not available in any other units. It's compatible with a variety of speaker microphone combinations including all general aviation microphones. The transponder is prepared for the connection of blind encoders from different manufacturers. The encoder can be connected to the transponder by a serial or parallel interface. Power voltage 10.0 V to 33.0 V DC. Power-up time 2 sec internal self-test. Operating modes Mode A, Mode C, Mode S. Vibration resistance Cat. A, 50 degrees C, eight approx. 1kg.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>T2000 Transponder</td>
<td>11-00990</td>
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<td>Transponder DO-250K</td>
<td>11-02866</td>
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<td>T2000 K ring harness</td>
<td>11-01361</td>
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<td>DEL COM Kit</td>
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**APPROACH SPORT HUB AVIONICS WIRING SYSTEMS**

**APPROACH SPORT HUB AVIONICS WIRING SYSTEMS**

- Simply install the appropriate Approach hub for your instrument panel configuration.
- Sport Hub for basic instrument panel configuration - The Sport Lite hub is an all-inclusive hub and cable solution enabling you to install a GPS/Com and intercom in record time and designed for pilots that don't require a full panel, just a single radio and intercom. Perfect for flight plans, sport planes, intercom, aircrafts, aerobic aircrafts. P/N 11-01457.

**Sport Hub for Instrument Panel configurations**

**Sport Hub for Instrument Panel configurations**

- The Sport Hub and Cable System is compatible with most NAV/GPS/Com single dual, modern audio panels, intercoms, moving map displays, VOR indicators, and any other RS-232 formatted device. P/N 11-01458.

**Pro Hub for Instrument Panel configurations**

- The Pro Hub and Cable System is designed for a full Garmin, Apollo, or King/Bendi stack. The Pro Hub system is compatible with most NAV/GPS/Com single dual, modern audio panels, auto pilots, intercoms, moving map displays, VOR indicators, SIs, RMs, ADs, annunciators, mode control, and any other RS-232 formatted device. P/N 11-01459.

**Becker Mode S BXP-6403-2**

**Becker Mode S BXP-6403-2**

- Single block Mode-S transponder. Certified according to ETSO-2C112a and is suitable for VFR and IFR operations up to 15000 feet. E tended squitter and S1 code functionality it provides an interface to the central aircraft data system. It allows ELS, supports E S, as well as ADS-B via e tended squitter. Designed for slide-in mounting and fits into a 160.3 x 28.2 mm cut-out. The use of an adapter allows for retrofit in a KT 76 A tray. Panel inscriptions and sunlight readable display can be illuminated and dimmed for night operation. The display shows the actual settings. The transponder is prepared for the connection of blind encoders from different manufacturers. The encoder can be connected to the transponder by a serial or parallel interface. Power voltage 10.0 V to 33.0 V DC. Power-up time 2 sec internal self-test. Operating modes Mode A, Mode A C, Mode S. Vibration resistance Cat. A, 50 degrees C, eight approx. 1kg.

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**Becker 441 Transponder**

**Becker 441 Transponder**

- The Becker 441 Transponder is the same look and similar size as the successful transceiver AR421. It offers performance and connected to the transponder code also the current flight level, if an encoding altimeter is connected and Mode-C is selected. It operates from 9.5 to 32.2 V DC, suitable for almost every application in general aviation. A standard encoding altimeter or blind encoder can be connected. ATC441 - 175 watt power output P/N 11-01096.

**Becker AR 4201 COM**

**Becker AR 4201 COM**

- Offers 760 channels and is intended for use for installation in gliders, motor gliders and small single engined aircraft due to its limited power requirement and 27mm 2-1/4 round format. The equipment has an output of 5-7W. A standby frequency and 99 memor- ies are available which can be easily programmed and recalled. An intercom, panel lighting, voltage indicator, an AF input, automatic test routines, serial interface and optional temperature indication integrated. Outside Air Temp Sender P/N 11-01566.

**Becker BXP6401-2(01) MODE-S TRANSPONDER**

**Becker BXP6401-2(01) MODE-S TRANSPONDER**

- Single block Mode-S transponder. It is certified according to ETSO-2C112a and is suitable for VFR and IFR operations up to 15000 feet. Equipped with e tended squitter and S1 code functionality it provides an interface to the central aircraft data system. It allows ELS, supports E S, as well as ADS-B via e tended squitter.

**Becker BXP6401-2(01) MODE-S TRANSPONDER**

- Designed for panel mounting and fits into a 2 inch cut out. Becker 1K6401 P/N 11-01096.

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PAV 80 IFE SYSTEM

The PAV80 system incorporates AM/FM radio, CD/MP3/MP3Pro for music, plus the added dimension of DVD video. The PAV80 system is a panel mounted unit, which contains the DVD mechanism, as well as the AM/FM radio. A 5.5" Liquid Crystal Display LCD video terminal provides full color pictures. A 4x4 displays can be driven from an optional video distribution amplifier. Multi-tasking capability. Keyed to an audio control system, such as PM1000B, the pilot/copilot can listen to the radio, while the DVD movie audio is provided to the passengers or visitor.

This feature gives the aircraft occupants unprecedented control over their audio entertainment. Music in front, movies in back, and a full intercom conversation, with aircraft radio muting of the entertainment as desired by the system. As a built-in system, by taking full advantage of the independent inputs designed into our audio panels, we have tailored the IFE outputs the way today's aircraft are used in cross-country travel. Designed specifically as a general aviation entertainment unit, the PAV80 is pre-wired for pilots, and incorporates the most-asked-for features in an IFE system.

Video Distrib. Amp for PAV80-0100 ..................... P/N 11-02550
5.6 color LCD display for PAV80-0100 ................. P/N 11-02551
P.S Remote IR Sensor For PAV80-0100 ............... P/N 11-05157

PS ENGINEERING PCD 7100-6 PL STEREO INTERCOM/CD PLAYERS

The PCD7100 series, from PS Engineering, is an integrated Intercom and CD player designed specifically for aircraft installations. The PCD7100 incorporates PS Engineering's exclusive IntelliVo™, automating the digitally controlled intercom squelch. The PCD7100 has music and intercom volume controls for adustment of the audio levels. The 5 backlit CD push button controls the player. LED mode annunciation are: Play/Pause, Skip, Repeat, Stop. In ISO mode, the pilot hears only aircraft radio traffic, without music or intercom interruptions. In crew mode, the pilot and copilot hear the internal CD player and radio traffic. An automatic fail-safe feature EMG connects the pilot directly to the aircraft radios if power is removed from the PCD7100 for any reason. Both the pilot and copilot hear the aircraft radios and the CD player, with PS Engineering's proprietary SoftMute™ circuit. Now available in either a standard CD player or it can now be ordered with the MP3 player option. Independent volume and squelch controls are standard feature.

Option 1 Digital recorder ................................ P/N 11-02543
PMA 6000 Audio Panel.................................... P/N 11-11937
PMA6000MC Audio Panel w/ Marker Beacon.... P/N 11-01083
PMA 7100CD Audio Panel w/ Marker Beacon... P/N 11-02545

PS ENGINEERING PMA 6000 AUDIO PANEL / INTERCOMS

The PMA6000 combines an audio selector panel with a top-quality intercom and a slew of features to enhance versatility and utility. Among the high points: Designed to be pin-compatible with the popular Bendix/King KMA-24 audio selector panel, the PMA6000 takes advantage of its engineering team's software prowess to provide more powerful controls and a more intuitive user interface. The PMA6000 also has a built-in marker beacon receiver.

Split mode allows the pilot and copilot to independently select different audio sources and transmit simultaneously on different frequencies. * Pilot and crew/passenger isolate functions are integral part of the design. * Dual audio input: aces for passengers and crew are standard feature. * Independent volume and squelch controls for pilot and copilot are standard. * PSE's renowned Soft Mute technology genty and subtly ramps the music down when conversation comes across either the intercom or the radio. * A patented swap function permits the pilot to use a yoke-mounted switch to select Com 1 and Com 2 options without reaching for the panel. * A high quality, voice-activated circuitry and individual microphone channels form the heart of the intercom system. * Passengers have their own voice and audio amplifiers. * Backlit switches link with a photo sensor carefully calibrates panel lighting to cockpit levels for all situations. * Fail-safe feature automatically hard-wires the pilot to Com 1, even transmitting on different frequencies. A Digital Recorder is available as an option. This continuous loop digital recorder stores all aircraft radio activity on the selected transmit radio, typically up to 1 minute/16 messages.

PMA 7100B/7000H AUDIO PANEL

This panel allows the maximum number of radio receivers and microphones without sacrificing flexibility. This panel is designed for upgrading an existing Bendix/King KMA-24 audio panel. KMA-24 pin compatible, by simply plugging the e wires going to the KMA-24 have to be disturbed, thus reducing the amount of installation work. A Digital Recorder is available as an option. This continuous loop digital recorder stores all aircraft radio activity on the selected transmit radio, typically up to 1 minute/16 messages.

PMA 7100B Digital Recorder .............................. P/N 11-02543
PMA 7100C Digital Recorder .............................. P/N 11-02545

PAC 24 AUDIO PANEL/INTERCOM

Designed from the outset for upgrade/replacement for the popular KMA24 71. Many of the enhancements include a powerful headset audio amplifier, and high-performance IntelliVo™ intercom, dual audio capability in a single box, full duplex mode for wireless operations, and e position capability with stereo IFE input. Can accommodate 3 transceivers. A monaural system, the PAC24 can accommodate only 1 microphone input, but allows music others times. Incorporates a split mode that will allow a single audio panel to separate two pilots on different transceivers.

Vertical Mounting...................................... P/N 11-05157
Horizontal Mounting................................. P/N 11-05159
Digital Recorder Aurora System w/ 4 unswitched inputs................................................. P/N 11-05158
FM Radio Adapter allows interfacing of non-standard aviation radios ....... P/N 11-05160
4 Channel Summing Amplifier......................... P/N 11-05161

PS ENGINEERING ACCESSORIES

PMA Engine cell phone cable ......................... P/N 11-04376
PMA Engine music cable ................................ P/N 11-04377
Digital Recorder Aural Warning System w/ 4 unswitched inputs................................. P/N 11-05158
FM Radio Adapter allows interfacing of non-standard aviation radios ....... P/N 11-05160
4 Channel Summing Amplifier......................... P/N 11-05161

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PS ENGINEERING ACCESSORIES

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PMA Engine music cable ................................ P/N 11-04377
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FM Radio Adapter allows interfacing of non-standard aviation radios ....... P/N 11-05160
4 Channel Summing Amplifier......................... P/N 11-05161

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PMA Engine cell phone cable ......................... P/N 11-04376
PMA Engine music cable ................................ P/N 11-04377
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FM Radio Adapter allows interfacing of non-standard aviation radios ....... P/N 11-05160
4 Channel Summing Amplifier......................... P/N 11-05161
PMA9000EX AUDIO PANEL

Built with theplist from the embule the PMA9000EX brings to the cockpit the more capability than any other audio panel. The backlit Liquid Crystal Graphics Display. At a glance see what radios are selected, the state of squelch and other mode alerts. A host of softkey configurations can be with a twist of the Rotary Data Knob. Panel utility acts as an iPod input, telephone input, or SB port for the onboard MP3 player. This SB port allows the crew and passengers to download music from a memory stick, providing hours of continuous music streaming. Bluetooth interface eliminates the need to carry an auxiliary audio changer. Five different ways that any two of the three music inputs can be distributed. None of the capabilities of the PMA8000B has been lost. It too is plug and play with the Garmin GMA340.

PMA8000B AUDIO PANEL

Front-mounted, 2.5mm multiport allows pilots unprecedented access to their audio panel, allowing connections to cell phones, portable music devices, or audio announcements directly into the audio panel. 6 user configurations that are front panel selectable. Then used as an entertainment input, the music is directed to the crew, and PS Engineering’s patented SoftMute™ functions normally. Our original Karaoke Mode™ can be activated by pressing the front panel Mute button, allowing the music to be placed in the background while interruptions to the music will be eliminated. However, if the aircraft has a panel mounted music device and it is active, it changes the front panel for advisories messages. These alert messages are not muted, and presented to the crew when phone calls only. Also is a convenient way to connect your cellular telephone. Pilot can receive and transmit on the selected VHF COM with ATC as well, for seamless integration in the cockpit. Cellular telephone use in flight is not permitted, but remains a convenient and safe way to contact air-traffic control or a weather briefing while on the ground. Virtual Tech Support VTS voice prompts each special function selection ensuring that the pilot knows exactly what the new audio panel configuration is, in plain English. Six different configurations can be selected from the front panel. Internal Recording System IRS is now standard equipment. Backward compatible with the PMA8000. Note: the front panel is restricted to advisory information only, from portable systems. Signals required for certified equipment must be interface in accordance with their specific installation manuals.

PMA8000B Audio Panel.................................................................................................................... P/N 11-04354..........................
PMA8000B-MP3 - PMA8000B with an internal MP3 player with 4GB of music storage................. P/N 11-06612..........................
Music Cable ........................................................................................................................................ P/N 11-04377..........................
Cell Phone Cable ............................................................................................................................. P/N 11-04376..........................

PMA 8000-SR AUDIO PANEL

An audio selector panel for two VHF coms including a split mode, a dedicated cellular telephone intercom, a 6-place Intellivoi stereo intercom, and an independent music system. Provides a marker beacon receiver with 3-light indicator. True plug-and-play replacement for the Garmin GMA340. Patentd Intellivoi automatic intercom system eliminates all of the traditional knobs and push buttons. A single digital processer, the system determines if the microphone is picking up voice or air noise. It opens instantly when voice is detected. This makes conversations seamless, even in a noisy aircraft. Karaoke mode, allowing the music to play continuously without constant interruptions. TEL mode allows the pilot to access a hands-free cellular telephone, where appropriate, through the audio panel and headsets. Various front panel intercom configurations allow anyone in the aircraft to be placed on the cell phone, while the crew also remains connected to the communications radios. Configurable music inputs as well, allowing the pilot to tailor who hears what when. So with the addition of the PA800 or PKE7300, the added dimension of DVD or MP3 can be easily added. NOTE: when flying near highly populated cities, signal drop may occur due to ground-based repeater interference.

Audio Panel PMA8000-SR through Recorder .................................................................................. P/N 11-02982..........................
Audio PMA8000-SR 5th Recorder ................................................................................................. P/N 11-03002..........................
Recorder for the PMA8000-SR Audio Panel ................................................................................ P/N 11-06099..........................

PS Engineering audio panels and intercoms can be sold over the counter buy must have a PS Engineering dealer make the harness or the warranty on the unit is void. Harnesses can be ordered from PS Engineering direct or when ordering from Aircraft Spruce.
IN-FLIGHT CABIN ENTERTAINMENT SYSTEMS

AVIONICS INNOVATIONS

AICD III AM/FM/CD/MP3 PLAYER

The AICD III is the latest way to listen to your favorite CD/MP3 or radio station in flight. Designed for aviation, it has an attractive brushed aluminum bezel to enhance your instrument panel. Comes with easy install kit to mount directly into your instrument panel.

Features: FAA/PMA Approved • 24 Station Presets • Automatic Frequency Store • Seek • Down Tuning • Electronically Controlled Volume • Bass/Treble/Balance • 11-33 Volt DC • 2.5 x 3.5 Inches • eight 3.5 Pounds. *Can be connected to Sirius Satellite Receiver or AI-8 Changer. *Aux. input for an mp3 player + Remote Control. * AICDIII AM/FM/CD/MP3/ MA E R0 ........P/N 11-05150.

AVIONICS INNOVATIONS DMP-100

This Digital Media Player is a self-contained unit that stores and replays pre-recorded audio tracks. The audio tracks are encoded in Motion Picture Expert Group MPEG Level 3 format, commonly referred to as mp3. Audio files are stored in a removable Compact Flash™ memory card which is printed and designed by the user. Features: *Self-contained unit which stores and replays MP3 music and speech files. * MP3 files are stored on a standard Compact Flash card. * MP3 play lists IPod can be imported. * One MB = one minute of speech or music. Currently, Compact Flash cards are available up to 4gb. * up to seven languages can be programmed with the ability to play two different languages simultaneously. * The DMP-100 can be implemented as a cabin briefer. * Audio files can be selected via a single rotary push-button on the front panel. + Optionally, the DMP-100 can be connected to a minimum of seven electronic discrete trigger inputs to select a particular audio/speech file. + In addition, the RS232 data from a GPS can be connected to the DMP-100 allowing triggering of audio/speech files based on geographical position. * The DMP-100 provides a single pair of ground-referenced stereo line-level output signals. * ser programmable with Avionics Innovations cclusive Card-Prep software supplied with the DMP-100. Benefits: *Self-contained unit which stores and replays pre-recorded audio tracks. * Can be used for entertainment and or cabin briefing. * Single rotary knob with a push-button action for all front panel functions. + MP3 play lists IPod can be imported. * ser programmable. + GPS can be connected to the DMP-100 to trigger either speech or music automatically when the aircraft is within a specific distance of a certain waypoint. * FAA/PMA approved. DO-160D tested. Specifications: * Power source 11-33 Volts DC * Ground System: Negative * Current Draw: < 250 mA * Operating Voltage 11-33 VDC. * 4 Seats + P/N 11-07254. * 6 Seats + P/N 11-07255. * 8 Seats + P/N 11-07256.

AI – DVD/CD PLAYER

Remote mounted multi-regional DVD drive allows you to view DVDs from any region around the world. The unit also is a CD/MP3 player. Requires PC with Passenger Control kit for operation. P/N 11-04495

Specifications: * Operating Voltage 11-33 VDC * Current Draw 0.2 Amps * Antenna E temporarily mounted included + eight 1.2 lbs. + Dimensions 6.25 L x 5.5 H x 1.25 W + P/N 11-04496.

AI – PASSENGER CONTROL UNIT

Passenger Control unit with IR remote. Controls remote-mounted I.C.E. components. Sirius Satellite Radio, DVD/CD, or MP3 player. Two distinct channels allow some passengers to receive one source while others receive a second source. Specifications: * eight 15 oz. * Operating Voltage 11-33 VDC * Current Draw 0.2 Amps. * Dimensions 125 L x 5.5 H + P/N 11-04495.

AI – 7” WIDE SCREEN

7 wide-screen format with optional touch screen. Specifications: * Input Signals 1 VGA and 2 NTSC * Resolution 800 x 600 * Viewing Angles right/left/above/below 65/65/60/65 * Brightness: 1500 NIT * Operating Voltage 18-33 VDC * Current Draw 750 mA * eight 2.5 lbs. + Dimensions 5.5 D x 1.5 H x 1.75 W + Mounting Bulkhead, headrest, or articulating arm + P/N 11-04502.

AI – SATELLITE RADIO MODULE

Remote mounted Sirius Satellite Radio module with antenna. 120 streams of coast-to-coast digital quality sound including NFL and NASCAR available 2007. Specifications: * Operating Voltage 11-33 VDC * Current Draw 0.2 Amps * Antenna E mounted included + eight 1.2 lbs. + Dimensions 6.25 L x 5.5 H x 1.25 W + P/N 11-04497.

AI – VIDEO AMP

Remote mounted video amp with 2 video inputs 6 video outputs. 6 individual 12 VDC power supplies at 0.75 amps each. Specifications: * Operating Voltage: 16-33 VDC * Current Draw: 2.5 Amps * Weight: 6 lbs. * Dims: 6.25 L x 2.1 H x 1.75 W + P/N 11-04498.

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**RADIORAX - TRAFFIC ALERT SYSTEMS**

**RADIORAX THE REVOLUTIONARY AVIONICS RAC SYSTEM**

Radirax provides file liability and ease of installation for panel mount avionics. The Racid system consists of anodized slotted rails, stainless nuts, structural strength tray screws that are four times stronger than conventional screws used in aviation, and a stainless-steel capture system that holds each nut where it is needed during assembly. The installer is able to position the nuts in the slot as they are required to install each tray. Once installed, the trays can be easily moved until the trays are fully tightened. Additional nuts can be stored in the slots for future avionics additions. Radirax provides great strength, ease-of-alignment, easy change and modification, enhanced quality, owner satisfaction, and is very cost effective.

**MONROY ATD-300 AIR TRAFFIC ALERT**

The Monroy ATD-300 provides that continuous traffic awareness in a compact size. Detects all transponder replies from nearby traffic and displays their pro imity and their altitude on a bright blue character dot matrix display. Simultaneously, a clear female voice provides voice alerts in relation to traffic pro imity. It even has a test mode to verify transponder operation. All of this and more in the size of an aluminum box $2.75 w x 0.75 h x 5 d$ no bigger than your intercom. ith the Plug N Fly feature you just plug the ATD-300 into the cigarette lighter for power and the aircraft headphones jack for voice feedback, and you are ready to go. No panel space or installation is required. Velcro and mounting brackets are provided for location on top or bottom of the instrument panel and in the panel. The unit comes with a detachable antenna, cigarette lighter power cord, and headphone cable for Plug N Fly setup. The ATD-300 Traffic-atch provides multiple capabilities that enhance the safety of flight, such as: Traffic Range up to 5nm, High/Low Voltage alarm, Traffic MLS Altitude, Auto Mode Display, Traffic Indication, ATD-200 Interchangeable Traffic relative altitude readout, Host transponder altitude/code readout, Bright LED 8 character dot matrix display Specifications: 8.1 oz. Frequency 1090 M Hz, Ma Range 5nm.

**ZAOX RMRX ONLYX COLLISION AVOIDANCE SYSTEM**

Traffic awareness is everyone’s concern, and so has been the cost of traffic systems, until now. PCAS XRX-ON X provides first ever portable, passive, stand-alone collision avoidance system for general aviation to offer direction from within the cockpit. PCAS™, or Portable Collision Avoidance System, is aon solution for providing real-time traffic information to the general aviation pilot. XRX-ON X is our flagship model, providing a complete picture in a simple, easy-to-use device. PCAS represents our third generation of proven traffic detection technology. XRX-ON X is truly a Plug and Go device with its built-in antenna system and built-in display.

**ZAOX XRX-ON X UPGRADE E SSTEM**

The new XRX-ON X, is an updated version of the current XRX-A system. The differences include: * The code for the new product is XRX-A-O. * Improved in a new black color. * A metallic or weather-resistant, or semi-transparent panel. * Software Version 2.1 contains minor user interface enhancements. * Forward compatibility with integrated systems.

**PROXALERT R5 - COLLISION AVOIDANCE SYSTEM**

The R5 is a passive collision avoidance system. It detects transponder replies of aircraft flying in your vicinity and displays simultaneously both squawk code, altitude, vertical trend and estimated distance of the 3 closest threats. The R5 will increase your ability to visually locate threat aircraft and better apply the FAA See and Avoid concept. The R5 has been designed to be very robust against interference coming from DME equipment and other sources of disturbance. Offers significant operational improvements over previous generation products at a very attractive price. The R5 comes with a 3 year manufacturer warranty.

**ZAOX BOSE HEADSET AUDIO ADAPTER**

This custom audio cable is 300 compatible with all Bose 6-pin connector headsets, including noise reduction circuitry, and is stereo compatible. One simple cable is all you need. Replaces standard headset audio cable. 6-foot straight cable into 6-foot straight cable into.
R-A-M MOUNTING SYSTEMS

RAM is the revolutionary universal ball and socket mounting system that allows you to mount practically anywhere. The new yoke/glareshield mounting system gives the pilot an option of positioning the arm over or under the yoke or anywhere on the glare shield. RAM is backed by NPI’s renowned Lifetime warranty and is the only patented ball-and-socket system on the market.

**STEP BASES**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<td>RAM POD 1 w/ 1 Single Socket Arm</td>
<td>RAM-B-202</td>
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<td>RAM-PF-S85 Series</td>
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<td>RAM-B-232-90</td>
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<tr>
<td>RAM-B-241</td>
<td>RAM Rail base w/1/4 NPT hole</td>
<td>RAM-PF-S85 Series</td>
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**STEP 2: ARMS**

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<tr>
<th>Model No.</th>
<th>Description</th>
<th>Requires</th>
<th>Part No.</th>
<th>Prices</th>
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<tr>
<td>RAM-B-201-A</td>
<td>RAM Double Socket Short Arm</td>
<td>RAM-B-202 or B-238</td>
<td>11-03458</td>
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<tr>
<td>RAM-B-201</td>
<td>RAM Double Socket Med. Arm</td>
<td>RAM-B-202 or B-238</td>
<td>11-01255</td>
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<tr>
<td>RAM-B-201</td>
<td>RAM Double Socket Long Arm</td>
<td>RAM-B-202 or B-238</td>
<td>11-07069</td>
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<tr>
<td>RAP-PF-S85-6</td>
<td>RAM 6 Fle Arm w/1/4 NPT ends</td>
<td>RAM-B-232 Series or B-241</td>
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<tr>
<td>RAP-PF-S85-9</td>
<td>RAM 9 Fle Arm w/1/4 NPT ends</td>
<td>RAM-B-232 Series or B-241</td>
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<tr>
<td>RAP-PF-S85-12</td>
<td>RAM 12 Fle Arm w/1/4 NPT ends</td>
<td>RAM-B-232 Series or B-241</td>
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**ACCESSORIES / MISC. MOUNTS**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<td>RAP-326</td>
<td>Quick Release Kit</td>
<td>RAM-B-201 Series</td>
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<tr>
<td>RAM-MAG-1</td>
<td>Magnifying Glass for GPS</td>
<td>RAM-B-238</td>
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<td>RAM-KNOB3L</td>
<td>Keyed Lock 1/4-20 Brass</td>
<td>RAM-B-201 Series</td>
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<td>RAM-B-200-1</td>
<td>Single Ball Socket Arm for 1 Balls</td>
<td>RAM-PF-S85 Series</td>
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<tr>
<td>RAM-B-218-1</td>
<td>RAM Ball w/1/4 NPT</td>
<td>RAM-PF-S85 Series</td>
<td>10-00477</td>
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<tr>
<td>RAM-B-108B</td>
<td>RAM V Base Ball Straps For 1/2-2 Dia. Rail also works on GPSMAP 696</td>
<td>RAM-B-201 Series</td>
<td>11-02003</td>
<td>11-02003</td>
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</table>
STEP 2
Once you have a base secured to your aircraft, the 2nd step is to choose a double socket arms are 1.75, 3.5 and 5.25 long ball to ball and the flea arms are 6, 9 and 12 end to end.

BASES
RAM- M- 1-S LEG STRAP / SNAP LINK MOUNT - Flexible Stick on BASE
RAM- S -178 RAP- S -178 Does not include cradle. Sold Separately
RAM- -31 RAIL BASE 1/2 -1.1/4 Dia. Rail
RAM- -131 AIRCRAFT SEAT RAIL BASE E- Mount NOT Included
RAM- -31 -1 RAP- -1 1 RAP- -1 1
RAM- POD 1 - AL MIN M RIGID ROD

STEP 3
The 3rd step is to attach the cradle for your device. Most of the cradles will require a 1 ball base that attaches to the cradle to connect with the double socket arm RAM-B 202 or RAM-B-238.

STEP 3: HOLDERS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<th>Part No.</th>
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<td>RAM-B-238</td>
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<tr>
<td>RAM- OL-AP2</td>
<td>RAM older for Apple i-Pod Nano</td>
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<tr>
<td>RAM- OL-AP3</td>
<td>RAM older for Apple iPhone</td>
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<tr>
<td>RAM- OL-AP4</td>
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<td>RAM- OL-AP5</td>
<td>RAM older for Apple i-Pod Nano Touch</td>
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<tr>
<td>RAM- OL-BC1</td>
<td>RAM older for Electronics with Belt Clip</td>
<td>RAM-B-238</td>
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<td>RAM- OL-GA7</td>
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<td>RAM- OL-GA22</td>
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<td>RAM- OL-SP01</td>
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</table>
LOBSTER MOUNTS

The Shrimp Series of mounts provide an economical solution for mounting mobile electronics. This basic system provides a minimal e-extension, and utilizes a tri-wing finger knob that secures to the off-centered 1-1/4 inch ball-base. Patent pending provides adaptability that cannot be matched. The Shrimp mount extends as little as 2-1/2 inches from the mounting surface and can extend to about 5.5 inches. The Shrimp was designed to support devices up to 3 lbs, and is available with bolt-on, MC/ATV, and Suction bases.

UNIVERSAL MC-ATV CLAMP - Base only  For an additional anchor point we offer this universal rail-clamping base, designed to fit square or round tubing from 3/4 inch to 1 1/2 inch diameter by adding a 1/4-20 3 bolt, this base will fit up to 1-3/4 tube. This rugged base is made from e-truded aluminum, an aluminum ball, and includes stainless steel hardware. eight nit 0.5 lbs. P/N 11-04709

UNIVERSAL CRADLE - The Cradle comes with four grip fingers and one stop finger, which are capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adustable from 1-1/2 to 3-1/4, and in the long direction, the grip fingers adust from 4-1/2 to 5-1/2. For longer devices, the fingers on top could be left off, allowing the device to overhang the cradle base. This product, like our other products is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important. P/N 11-04710

SHRIMP SERIES BOLT-ON WITH CAMERA TOP - A removable 1/4-20 camera stud, universal mounting ball-base and mounting flange, lanyard loop accommodates the AMPS bolt-up pattern. AMPS is a 1-1/2 by 1-3/16 screw hole pattern used in many portable electronic products. Aluminum alloy and reinforced composite parts with stainless steel hardware. P/N 11-04711

SHRIMP SERIES MC/ATV CLAMP WITH CAMERA TOP - Same as our Bolt-On model, while adding a universal rail-clamping base, designed to fit square or round tubing from 3/4 inch to 1-1/4 inch diameter by adding a 1/4-20 3 bolt, this base will fit up to 1-3/4 tube. This rugged base is made from e-truded aluminum, an aluminum ball, and includes stainless steel hardware. P/N 11-04713

SHRIMP SERIES BOLT-ON + CRADLE - Universal mounting base and mounting flange, lanyard loop, along with our cradle for hand-held devices. The Cradle N-198 comes with four grip fingers and one stop finger, which are capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adustable from 1-1/2 to 3-1/4, and in the long direction, the grip fingers adust from 4-1/2 to 5-1/2. For larger devices, the fingers may be left out at the top allowing the device to overhang the cradle base. This product, like our other products is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important. P/N 11-04715

SHRIMP SERIES SUCTION + CRADLE - Our Suction Base attachment ball is capable of being tilted for e-tra versatility in positioning your device. The Camera Top N-310 has a removable 1/4-20 camera stud. It also features a mounting surface with holes and slots, which accommodate the AMPS standard 1.496 1.181 pattern for direct attachment to numerous electronic devices. This base, like our other products, is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important. P/N 11-04716

SHRIMP SERIES MC/ATV + CRADLE - A universal rail-clamping base, designed to fit square or round tubing from 3/4 inch to 1-1/4 inch diameter. Made from e-truded aluminum, an aluminum ball, and includes stainless steel hardware. Cradle comes with four grip fingers and one stop finger, capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adustable from 1-1/2 to 3-1/4, and in the long direction, the grip fingers adust from 4-1/2 to 5-1/2. For larger devices, the fingers may be left out at the top allowing the device to overhang the cradle base. P/N 11-04717

SHRIMP SERIES BOLT-ON WITH CAMERA TOP - A removable 1/4-20 camera stud, universal mounting ball-base and mounting flange, lanyard loop accommodates the AMPS bolt-up pattern. AMPS is a 1-1/2 by 1-3/16 screw hole pattern used in many portable electronic products. Aluminum alloy and reinforced composite parts with stainless steel hardware. P/N 11-04711

UN-303 ROLL BAR CLAMP - Base only  For your ATV, golf cart steering column or other applicable with 1-1/2 to 1-1/2 tubing. This rugged base is made from aluminum e-trusion, an aluminum ball, and zinc plated steel hardware. Note that this is not compass friendly. P/N 11-06618

UN-310 CAMERA TOP - Camera Mounting surface that can also be used for mounting other devices. If you are already using a universal Cradle N-198, this allows you to easily use your mounting system for other purposes. The holes and slots in the flange accommodate the AMPS standard 1.496 1.181 pattern as well as several size u-bolts. This base, like our other products is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important. P/N 11-06615

ROTATING MOUNT FOR GARMIN GPS

The rotating mount attaches to the Garmin yoke mount supplied with the GPS units. The GPS then mounts on the product and allows the GPS unit to be rotated so the passenger can view the unit if mounted on the pilots side. If used on the co-pilots side, then the pilot can rotate the GPS so he/she can view it as well. Note: The rotating mount is used for the Garmin GPS units 295,196,296,396 Rotating Mount for Garmin GPS LF P/N 11-04661 Rotating Mount for Garmin GPS RT P/N 11-04662

ANGERELO INSTRUMENT PANEL MOUNT

The photo illustrates the Model 241 040 fitted to a blank instrument panel. An adapter plate included with the mount fits any standard 2-1/4 inch panel hole so, generally, it can be fitted without any modifications to your airplane. If your application needs it, we can supply this mount with a 3-1/8 panel adapter plate. If you don’t have an unused panel hole, a viable alternative is to drill two holes and simply bolt the mount directly to your panel. The footprint area is only 2 0.5 so there’s probably going to be somewhere you can make it fit. Naturally, you need to be certain this is appropriate, sensible and legal for your installation before drilling holes. P/N 11-07238

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ICOM HANDHELD TRANSCEIVERS

ICOM IC-A24 NAV/COM

Easy-To-See Display - The IC-A24 is a compact, light and compact radio that provides excellent bang for the buck. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off - a very handy feature for flying at night.

Military Channel Recall - The IC-A24 stores the last 10 channels used. You can easily recall those channels by pushing the flip-flop recall buttons on the front panel. E ternal DC Power - An external DC power pack allows for operation with the wall charger or the cigarette lighter cable. The battery pack is installed, simultaneous charging during operation is also possible.

Water Resistant - The water resistant construction provides reliable operation in wet conditions. IC-A24 Nav/Com 110V - Includes Nicad battery, wall charger, belt clip, cable. hen the battery pack is installed, simultaneous charging during operation is also possible.

ICOM IC-A6 COM

Simple one-handed operation is the most essential feature of the IC-A6. The well-labeled, large keypad provides user-friendly operation. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off. The IC-A6 stores the last 10 channels used. You can easily recall those channels by pushing the flip-flop recall buttons on the front panel.

E ternal DC Power - An e ternal DC power pack allows for operation with the wall charger or the cigarette lighter cable. hen the battery pack is installed, simultaneous charging during operation is also possible. Water Resistant - The water resistant construction provides reliable operation in wet conditions.

Features:
- 200 memory channels (10 banks of 20 channels) allows you to recall buttons on the front panel. It is convenient for switching between several channels, such as Nav and Com channels.
- VOR Navigation - The IC-A24 has VOR navigation functions. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. You can also input your intended radial to/from the VOR station and show the course deviation on the display.
- Recall - The IC-A24 stores the last 10 channels used. You can easily recall those channels by pushing the flip-flop recall buttons on the front panel. E ternal DC Power - An external DC power pack allows for operation with the wall charger or the cigarette lighter cable. hen the battery pack is installed, simultaneous charging during operation is also possible. Water Resistant - The water resistant construction provides reliable operation in wet conditions.

Large capacity Lithium-Ion battery pack - The IC-A6 Com includes a Lithium-Ion battery pack, BP-232N, the IC-A4S series provides stable output power and 18 hours long use, operating time.

Large capacity Lithium-Ion battery pack - The IC-A6 Com includes a Lithium-Ion battery pack, BP-232N, the IC-A4S series provides stable output power and 18 hours long use, operating time.

ICOM IC-4088A UHF FM TRANSCIEVER

The ICOM IC-4088A is a compact, inexpensive transceiver, water resistant and very easy to use. Channel changing is as simple as pushing the up/down keys. The radio can be controlled with only 5 buttons and a volume control knob. The easy to read LCD shows information clearly.

For fast and simple operation, these channels can be grouped into 10 memory banks. For fast and simple operation, these channels can be grouped into 10 memory banks.

ICOM HANDHELD TRANSCEIVERS

ICOM IC-A4 HANDHELD TRANSCEIVER

700mW loud audio - Because air band radios are usually operated in high-noise environments, it is essential for the radio to provide loud clear audio. The IC-A4/S series employs a BTL amplifier that doubles the audio output, offering loud and clear audio that will cut through the noise even in a small cabin or boating noise.

Compact, light weight and rugged body - The IC-A4/S series is compact only 120mm tall and light weight approx. 350g including antenna and BP-232N. The water resistant construction, equivalent to IPX4, provides reliable operation in wet conditions. Large capacity Lithium-Ion battery pack - The IC-A4/S series is compact only 120mm tall and light weight approx. 350g including antenna and BP-232N. The water resistant construction, equivalent to IPX4, provides reliable operation in wet conditions.

ICOM HANDHELD TRANSCEIVERS

ICOM IC-A14 HANDHELD TRANSCEIVER

The ICOM IC-4088A is a compact, inexpensive transceiver, water resistant and very easy to use. Channel changing is as simple as pushing the up/down keys. The radio can be controlled with only 5 buttons and a volume control knob. The easy to read LCD shows information clearly. For fast and simple operation, these channels can be grouped into 10 memory banks.

ACCESSORIES FOR IC-24 & IC-A6

<p>|</p>
<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
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<td>BC-211 Power Supply AC/DC</td>
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<tr>
<td>BP-200L Battery 6V, 560mAh Ni-M</td>
<td>11-06012</td>
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<td>CP20L Cigarette Lighter adapter DC-DC Converte</td>
<td>11-03604</td>
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<td>OPC-478 Programming Cable</td>
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<td>OPC-967 Headset Adapter</td>
<td>11-06180</td>
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<td>BP-210N PM Power Cable for BC119N</td>
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<td>LC-159 Protective Case for A24 or A6</td>
<td>11-05003</td>
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<td>BP-209N Ni-Cap Battery</td>
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<td>BC-145 Adapter for IC-A24</td>
<td>11-04848</td>
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<tr>
<td>BC-144N 110V Charger for IC-A4, IC-A6</td>
<td>11-04847</td>
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<tr>
<td>OPC-656 PC Power Cable for IC-A4, IC-A6</td>
<td>11-05022</td>
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<tr>
<td>BC-110AR Trickle Charger for IC-A24</td>
<td>11-05021</td>
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<tr>
<td>BC-145N 110V Charger for IC-A24</td>
<td>11-04774</td>
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<td>BC-121N 6v niton Charger Kit for IC-A24, IC-A4, IC-A5, IC-A22, IC-A23</td>
<td>11-18529</td>
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<td>BBC-121N 6v niton Charger Kit for IC-A24, IC-A4, IC-A5, IC-A22, IC-A23</td>
<td>11-18529</td>
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ACCESSORIES FOR IC-14

<p>|</p>
<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>BP-194 Alkaline battery pack 9.6V, 700mAh</td>
<td>11-18599</td>
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<tr>
<td>BP-195 Battery Pack 9.6V, 700mAh</td>
<td>11-18665</td>
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<tr>
<td>BC-196 Long-life Tin-Cd battery</td>
<td>11-18660</td>
<td></td>
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<tr>
<td>AD-31 Desktop Charger Adapter</td>
<td>11-18621</td>
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<td>BC-124 AC Adapter</td>
<td>11-06151</td>
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<tr>
<td>BC-130 is the power supply unit for the BC-121</td>
<td>11-05650</td>
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<td>CP-12 Cigarette lighter</td>
<td>11-18594</td>
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<tr>
<td>OPC-259 DC Power Cable for IC-A4, IC-A5, IC-A23</td>
<td>11-18607</td>
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<tr>
<td>OPC-139 Speaker Microphone</td>
<td>11-18596</td>
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<td>BC-110V all Charger</td>
<td>11-18620</td>
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<td>BC-133 Trickle Battery Charger</td>
<td>11-05689</td>
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<tr>
<td>OPC-140 Cloning Cable Kit to handheld</td>
<td>11-05687</td>
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<td>OPC-752 headset adapter</td>
<td>11-18602</td>
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<tr>
<td>MB-74N Alligator type belt clip</td>
<td>11-05353</td>
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<tr>
<td>MB-77 Swivel Belt Clip</td>
<td>11-18603</td>
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<tr>
<td>Nylon Carrying Case</td>
<td>11-18617</td>
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<tr>
<td>CP-12L - Cigarette lighter adapter for use with A22, A23, A4, A5,Lab filter, low filter charge from 12 volts</td>
<td>11-18604</td>
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<tr>
<td>FTA-018 Antenna</td>
<td>11-18563</td>
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<tr>
<td>OPC-258 - Power cable</td>
<td>11-18606</td>
<td></td>
</tr>
</tbody>
</table>
HANDHELD TRANSCIEVERS

ICOM IC-RS SPORT
Small size, powerful specifications and outstanding features puts you in the action, whether listening in on your favorite drive or car-to-pit radio calls while at the race track, looking for something new while traveling, or catching your favorite radio programs at home.

ideband Receiver LI-0-130
The IC-R5’s wideband reception means virtually anything from AM broadcast to F TV audio is fair listening game. Every TV broadcast channel is preprogrammed into this radio. Listen to AM FM radio stations, utility communications, and more. For the race fan, the IC-R5 puts you so close to the asphalt, only the man behind the wheel is experiencing more action.

*Depending on version.

1 0 Alphanumeric Memory Channels
Make up your own channel names for each of up to 1250 memory channels, and channel recognition is easy. The IC-R5’s LCD display lets you use numbers, letters or a combination of both when naming channels and banks.

Convenient Power and Charging
Power on the go is easy, thanks to the IC-R5’s ability to operate from a variety of power sources. You may power the radio via the DC port or use the included AA size rechargeable Ni-Cd batteries* or use long storage life AA alkalines. A DC pack allows for simultaneous battery charging while operating the radio. *Depending on version.

Computer Programmable
*With the optional software and cable, IC-R5 programming and cloning are a breeze. You’re ready to customize channel names, scan lists, and more.

ACCESSORIES INCLUDED:
- 11-05054 Charger Cradle P/N
- 11-05049 Speaker Mic P/N
- 11-05046 Antenna Adapter P/N
- 11-05045 Belt Clip P/N
- 11-05044 Belt Clip Assembly P/N
- 11-05042 Case P/N
- 11-05041 Headset P/N

ACCESSORIES (OPTIONAL): RC handheld transceivers offer pilots many unique features such as active/standby frequency control, dual watch monitor 1 frequency while tuned to a primary frequency, instant memory write to instantly save any tuned frequency, and Nav Scan which scans nav frequency band to find useable VOR signals. Other features include DVOR and CDI, 16 button keypad, NOAA weather channels, 100 programmable memory channels, backlit LCD display, 5 watts of output power, full scanning, and much more. Comes complete with headset, protective case, belt clip, NiCd battery pack, 110 VAC wall charger, wrist strap.

VXA-710 “SPIRIT” AIRBAND NAV/COM TRANSCEIVER
A first in aviation communications Verte Standard has combined over 50 years of expertise in aviation communications to make the world’s first Air Band, VOR Navigation and V F Business Band Radio receive handheld transceiver

ACCESSORIES Included:
- FNB-80, Lithium-Ion Battery, NC-72B 120 Volt 12 our Charger, CT-96 eadset adapter, ATV-9 Rubber Duck Antenna

Vundra Transceiver w/ 117V Charger
P/N 11-04337

ACCESSORIES (OPTIONAL):
- ATV-9 Dual Band Rubber Duck Antenna
- CT-96 eadset Adapter
- NC-72B 12 Volt 12 our Charger
- FNB-80 Li 7.2v 1300mah Li-Ion Battery

VERTEX VXA-220 PRO VI
The VXA-220 features 5 watts TX power output, loud audio 700 mw, long life nickel metal hydride battery, larger LCD display, 250 memory channels with programmable 8 character alpha numeric display, submersible design 3 feet for 30 minutes, NOAA weather receive 10 channels. All of this is backed by the manufacturers 3 year parts and labor warranty.

The VXA-220 uses the same accessories as the popular VXA-300.

The VXA-220 COM, FNB-83 - Ni-M Battery 7.2V 1400, CN-3 SMA - BNC Antenna Adapter, ATV-10 Rubber Duck Antenna, CT-96 - eadset Adapter, NC-88 - Battery Charger, CD-32

VERTEX VXA-300 TRANSCIEVER
5 watt airband transceiver with Nav-Comm display • Large capacity Ni-M Battery twice the battery capacity of Icom IC-A23) • 8.3 kHz channel spacing (RX only) for European band plan • Built in VOX • Built in P.A. mode • 250 memory channels with 8 character alphanumeric title • Submersible (3 ft for 30 min.) • Extra loud audio amplifier (30% louder than Icom IC-A23) • NOAA weather channel receiver. The VXA-300 LITE is the same unit as the VXA-300 with the addition of an Alkaline Battery Case and 12V adapter.

VXA-300
- 11-02716 CT-96 - eadset Adapter
- 11-04342 XA-300 PI OT III ACCESSORIES Included

VERTEX VXA-300/C
- 11-04337

REXON RHR520 HANDHELD TRANSCIEVERS
RC handheld transceivers offer pilots many unique features such as active/standby frequency control, dual watch monitor 1 frequency while tuned to a primary frequency, instant memory write to instantly save any tuned frequency, and Nav Scan which scans nav frequency band to find useable VOR signals. Other features include DVOR and CDI, 16 button keypad, NOAA weather channels, 100 programmable memory channels, backlit LCD display, 5 watts of output power, full scanning, and much more. Comes complete with headset, protective case, belt clip, NiCd battery pack, 110 VAC wall charger, wrist strap.

ACCESSORIES:
- Alkaline Battery Case
- Speaker Mic
- Earphones

PUSH TO TALK SWITCH
igh-quality Push-To-Talk switch. Universal In-Line PTT Switch -103

P/N 11-07087
PORTABLE SOCKET - FEMALE............................P/N 11-01070
PORTABLE SOCKET - MALE ................................P/N 11-01069
Y>1 Adapter, Multiple use for GloPlug

GLOPLUG X3 ACCESSORY PLUG........................P/N 11-00312
GloPlug Accessory Plug..............................P/N 11-00313
GloPlug is a much needed, well designed

WINDSHIELD ANTENNA KIT FOR HANDHELD RADIOS
This antenna kit attaches to the inside of the
windshield dramatically improves portable
handheld equipment. The antenna is designed to
be sturdy and compact. This antenna can be
used with handhelds for enhanced reception.

DISCOUNT BATTERIES FOR HANDHELDs

BP-120 4.8v 1000 mAh pk 11-00323
BP-200 7.2v 1500 mAh pk 11-00243
**TRUTRA AUTO PILOTS**

**SORCERER AS AUTOPILOT**

- Same features as the TruTrak DFC-250 ATC, plus GPS and NAV.
- GPS-Slaved solid-state DG • Digital Ground Track Selector • VOR / LOC / ILS • VOR / LOC Reverse • Selected-angle Intercept • GPS Nav Mode • GPS Steering • Solid-state gyroscopically-controlled pitch axis • Selected Vertical Speed climb and descent • Altitude Hold • Built-in Digital Attitude • V-NAV • Vertical GPS Steering • Altitude Selector with 50-ft resolution for approaches • Selectable airspeed for altitude transitions (in addition to VS) • True Control Wheel Steering* • Simplified User Interface

**DIGITRAK AUTOPILOT**

- GPS-Slaved solid-state DG • Digital Ground Track Selector • GPS Nav Mode • Magnetic Backup Mode • True Control Wheel Steering* • Standard weight including servo 3.5 lb

**TRUTRAK FLIGHT SYSTEM RV-10 AUTO PILOT**

- GPS-Slaved solid-state DG • Solid-state gyroscopically-controlled pitch axis • Digital Ground Track Selector • Selected Vertical Speed climb and descent • GPS Nav Mode • Altitude Hold • GPS Steering • Built-in Digital Attimeter • Simplified user interface • V-NAV • Vertical GPS Steering (GPSV) • True Control Wheel Steering* • 50-ft resolution

**TRUTRAK AUTOPILOT AP-100**

- GPS-Slaved solid-state DG • Digital Ground Track Selector • VOR / LOC • VOR / LOC Reverse • Selected-angle Intercept • GPS Nav Mode • GPS Steering • Digital Slaved solid-state DG • Digital Ground Track Selector • Selected Vertical Speed climb and descent

**TRUTRAK YAW DAMPER**

- The aw Damper employs a solid state rate gyro to damp out short term yaw oscillation, and a transverse accelerometer to control rudder position long term, so as to keep the ball centered. The aw Damper can be added to the DFC-200 or Sorcerer autopilots.
- 2.05" H x 4.12" W x 1.89" D
- 12-28 volts
- Standard Weight Including servo 7lb
- Selected Vertical Speed climb

**AUTOMATIC TRIM**

- TruTrak Automatic Trim Pitch can be added to any system with vertical speed select. TruTrak is the only company serving the experimental market to offer TruTrak Automatic Pitch Trim which ensures that a single failure will not cause runaway trim. Automatic Trim can be added to the aw Damper.
- 2.05" H x 4.12" W x 1.89" D
- 12-28 volts

**DIGITFLIGHT-II MULTI-SERVO AUTOPILOTS**

- • Fits Standard 2.25" Round Instrument Hole • Built-in Digital Slaved Directional Gyro • Digital Track Selector • GPS Nav Mode • Altitude Hold • 12-28 Volts • Simplified Intuitive User Interface • All Solid-State Sensors • Lighter & Smaller than Comparable Systems • True Control Wheel Steering* • Dimensions 2.5"H x 2.5"W x 5.5"D • Flat Dim 1.6"H x 4.3"W x 5.5"D • Standard weight including servos 6lb

**DIGITFLIGHT-JD FLAT PACK**

- • Built-in Digital Slaved Directional Gyro • GPS Nav Mode • Altitude Hold • True Control Wheel Steering* • Standard weight including servos 6lb

**DIGITFLIGHT IVS**

- • Fits Standard 2.25" Round Instrument Hole • Built-in Digital Slaved Directional Gyro • Digital Track Selector • GPS Nav Mode • All Solid-State Sensors • Intuitive User Interface • All Solid-State Sensors • Lighter & Smaller than Comparable Systems • True Control Wheel Steering* • Dimensions 2.5"H x 2.5"W x 5.5"D • Flat Dim 1.6"H x 4.3"W x 5.5"D • Standard weight including servos 6lb

**DIGITFLIGHT IVSV**

- • Fits Standard 2.25" Round Instrument Hole • Optional Flat Rack Mounting • Built-in Digital Slaved Directional Gyro • Digital Track Selector • GPS Nav Mode • All Solid-State Sensors • Lighter & Smaller than Comparable Systems • True Control Wheel Steering* • Dimensions 2.5"H x 2.5"W x 5.5"D • Flat Dim 1.6"H x 4.3"W x 5.5"D • Standard weight including servos 6lb

**ALTRAK ALTITUDE HOLD**

- Easy Installation
- Can be used alone or with any roll servo autopilot
- Only panel space required is for engage/disengage button
- Solid-state gyroscopically-controlled pitch axis
- Flight dynamics equal to higher priced systems
- Control Wheel Steering
- Available with vertical speed select Altrak VS
- 12 Volts only
- Programmer Dimensions 3 0.9 2.8 D
- Standard weight including servo 3 lb

**TruTrak Altrak VS**

- P/N 11-02631

**DIGITFLIGHT IVS/G**

- • Fits Standard 2.25" Round Instrument Hole • Built-in Digital Slaved Directional Gyro • Digital Track Selector • GPS Nav Mode • GPS Steering • Altitude Hold • All Solid-State Sensors • 12-28 Volts • Simple Intuitive User Interface • Climb and Descend on Vertical Speed • Trim Sensing Pitch Servo that Annunciates for Trim • Lighter and Smaller than Comparable Systems • True Control Wheel Steering* • Dimensions 2.5"H x 2.5"W x 5.5"D • Flat Dim 1.6"H x 4.3"W x 5.5"D • Standard weight including servos 6lb

**TruTrak Digiflight II VS FLAT PACK**

- P/N 11-03147

**TruTrak Digiflight II IVS**

- • Fits Standard 2.25" Round Instrument Hole • Built-in Digital Slaved Directional Gyro • Digital Track Selector • GPS Nav Mode • GPS Steering • Altitude Hold • All Solid-State Sensors • 12-28 Volts • Simple Intuitive User Interface • Climb and Descend on Vertical Speed • Trim Sensing Pitch Servo that Annunciates for Trim • Lighter and Smaller than Comparable Systems • True Control Wheel Steering* • Dimensions 2.5"H x 2.5"W x 5.5"D • Flat Dim 1.6"H x 4.3"W x 5.5"D • Standard weight including servos 6lb

**TruTrak Digiflight II VS FLAT PACK**

- P/N 11-03147
TRUTRA ADI / EFIS

PICTORIAL TURN AND BANK

This display is like an artificial horizon in roll and actually moves in unison with it. This transition from viewing the horizon much easier than the reverse display of the turn coordinator. For much greater life and reliability, it uses a solid state gyro instead of a spinning rotor.

The Pictorial Turn Bank is superior to a turn coordinator in all ways.

• Even in the two-inch size it provides more viewing area than the small moving aircraft in the three-inch turn coordinator.
• The roll response is without lag as it is in an artificial horizon.
• Of most importance, it is easier and safer for the non-instrument pilot to fly.

12-28 Volts - eight-6oz
2-1/4 .......... P/N 11-02834 .................
3-1/8 .......... P/N 11-02628 .................

TRUTRA PICTORIAL PILOT

This autopilot combines the superb performance of our Digitrak with a real aircraft flight instrument, the Pictorial Turn Bank. It also contains a digital DG for viewing when the autopilot is not engaged.

When the autopilot is engaged, this display becomes the track selector.

The Pictorial Turn Bank is the only low-cost autopilot to provide a proven easy to fly flight instrument. This is most important to the non-instrument pilot who would find it very difficult to fly a moving light bar in IMC.

The Pictorial and Digitrak autopilots are the only ones in this class to provide a drift free magnetic mode when GPS is lost. In the flight instrument mode AP-off, one must see to believe. In one instrument, the pictorial display combined with the DG display is as easy to fly as the roll display of an artificial horizon in combination with a conventional DG. In the autopilot mode it provides by far the simplest and thus easiest to use mode control and information display of any product in its class.

12-28 Volts - eight-6oz
12-28 Volts - eight-6oz

TRUTRA ADI PILOT II

Features:
• GPS-Slaved solid-state DG
• Digital Ground Track Selector
• GPS Nav Mode
• True Control Wheel Steering
• Altitude Hold
• Altitude adjust for baro change

Built-in ADI: Bank angle is instantaneous gyro data. Pitch is gyro enhanced vertical speed. Direction is an electronic DG showing track. E-treme bank angle is enunciated by flashing red arrows which indicate required stick motion to correct unusual attitude. Low airspeed warning is enunciated by flashing A-S on the display.

12-28 Volts only
• Programmer Dimensions 3.4"H x 3.4"W x 4.7"D
• Standard weight including servos 6lb

TRUTRA ADI FLIGHT INSTRUMENTS

Bank angle is instantaneous gyro data. Pitch is gyro enhanced vertical speed. Direction is an electronic DG showing track. E-treme bank angle is enunciated by flashing red arrows which incite required stick motion to correct unusual attitude. Low airspeed warning is enunciated by flashing A-S on the display. Solid-state rate gyros for pitch and roll. 12-28 Volts (optional) - Backup battery (optional).

Power:

Description Part No. Price
TruTrak ADI 2 ith GPS Option 11-05733 ..
TruTrak ADI 2 ithout GPS 11-05736 ..
TruTrak ADI 3 ith GPS LAS 11-04327 ..
TruTrak ADI 3 ith GPS LSA 11-02963 ..
TruTrak ADI 3 ithout GPS 120KNT 11-05654 ..
TruTrak ADI 3 ithout GPS 120KNT 11-05655 ..

Accessories Part No. Price
TruTrak ADI Back-up Battery 28V 11-04675 ..

CT PILOT SERIES AUTOPILOTS CT PILOT

• Fits 4.1" x 1.4" Cut-out
• Built-in Digital Slaved Directional Gyro
• Digital Track Selector
• GPS Nav Mode
• Altitude Hold
• Simple Intuitive User Interface
• All Solid-State Sensors
• Lighter and Smaller than Comparable Systems
• GPS Steering (GPSSS) Optional (Digitalflight IIG FP)
• True Control Wheel Steering
• 12-28 volts
• Dimension - 4.3"H x 1.6"W x 5.5"D

Standard weight including servos - 6lbs

M e T e Part No. Price
CT Pilot Vertical 11-06412 ..
CT Pilot G Vertical 11-06414 ..

CT PILOT VS

• All DigiFlight II Features plus
• Climb and Descend on Vertical Speed
• Trim Sensing Pitch Servo that Annunciates for Trim
• GPS Steering (GPSSS) Optional (Digitalflight IIG FP)
• 12-28 volts
• Dimension - 4.3"H x 1.6"W x 5.5"D

Standard weight including servos - 6lbs

M e T e PN Price
CT Pilot VS Vertical 11-06415 ..
CT Pilot VSG Vertical 11-06416 ..

CT PILOT VSGV

• All DigiFlight II Features plus
• GPS Steering (GPSSS)
• Vertical GPS Steering (GPSVS)
• 12-28 volts
• Dimension - 4.3"H x 1.6"W x 5.5"D

Standard weight including servos - 6lbs

M e T e PN Price
CT Pilot VSG Vertical 11-06415 ..
CT Pilot VSGV Vertical 11-06416 ..

AV

542
TRIO AVIONICS – LONESTAR

TRIO AVIONICS

EZ PILOT AUTOPILOT - The E Pilot autopilot is a single axis, gyro stabilized roll control autopilot. It is a modern navigation system designed to accurately track a flight plan or Go To course that is entered into a handheld or panel mount GPS receiver. Track, Course similar to a heading bug, and intercept modes are available to the pilot. The Pilot Command Steering simplifies course changes. Full data display of all GPS input data. Fits standard 3-18 instrument cutout. Length: 8. five, eight ounces/239 grams Gold Standard Servo 75, 765 grams P/N 11-06549

PRO PILOT AUTOPILOT - The Pro Pilot is a GPS enabled autopilot that provides high-quality 2-axis navigation solutions for E perimental and LSA aircraft. It uses solid-state MEMS gyros for pitch and roll stability. Horizontal and vertical functions may be individually enabled. Orientation navigation provides three modes of control: Track, Course and Intercept. Vertical navigation functions offer Altitude hold, climb/descent with Airspeed Limiting, and Altitude Pre-Select. Multi-color LEDs and a bright PLED display screen provide a clear picture of functions and displayed data LCD screen available upon request. Basic operation is as simple as pushing a button, while advanced features are easily accessed by means of illuminated tactile buttons and a rotary encoder. A slip-skid indicator and a turn rate display duplicate the functions of a standard turn rate coordinator. Advanced Safety Features G force limiting, automatic servo disconnect on takeoff, intelligent servos with independent emergency disconnect authority, host Track Offset Positioning, and Tri’s automatic 180 degree turn feature for VFR pilots encountering poor weather. Fits a standard 3-18 instrument cutout. P/N 11-06550 Each Servo 12 ounces/340 grams P/N 11-06548

EZ-1 ALTITUDE HOLD - Single axis is a altitude control system. Provides pitch stabilization and accurate altitude hold using MEMS gyro and sensitive altimeter. The LCD display provides a graphical message display for system messages, alerts and warning advisories. Rotary encoder allows fine altitude adustments. G force limiting to prevent high wing stress, alarms and disconnects when exceeding high sustained G loads. Remote servo disconnect. Senses and displays trim requirement. Each Servo 75 grams P/N 11-06550

EZ-2 ALTITUDE CONTROL - Same physical configuration and features as E-1 but adds climb/descent capability and airspeed capture. Pilot port on the electronics module enables airspeed sensing to prevent stalling or over-speeding the aircraft. Pilots may enter climb/descent rates and target altitude. P/N 11-06551

EZ-3 ALTITUDE CONTROL - Same as E-2, but adds Altitude Pre-Select. Pilots may enter climb/descent rates and target altitude. P/N 11-06552

Auto-Trim option for existing aircraft electric pitch trim system - P/N 11-06549

All altitude control systems employ the Trio Gold Standard servo.

ACCESSORIES

E Pilot arness Assembly P/N 11-06702
E Altitude Control arness Assembly P/N 11-06703
ProPilot Autopilot arness Assembly P/N 11-06704
Gold Standard Servo P/N 11-06705

COMMANDER 2900K

This high power unit is pre-wired in the take home mode. Simply slide your KL90A/B, KL89B/KL50 Series, and KLX-135 Series GPS or GPS-COM, into the tray of the Commander 2900K and e plore your GPS receiver as if you were flying. Practice actual flight or approach at home, store flight plans, and learn all of your units functions. Update your units database via the internet using a desktop or laptop computer save up to 300/year. Recommended by Allied-Signal in your operators handbook in the take home mode section. Appropriate connector is shipped free via PS Blue Label from the factory. Additional Kill switch is, gyro stabilized roll control autopilot. It is a modern navigation system designed to accurately track a flight plan or Go To course that is entered into a handheld or panel mount GPS receiver. Track, Course similar to a heading bug, and intercept modes are available to the pilot. The Pilot Command Steering simplifies course changes. Full data display of all GPS input data. Fits standard 3-18 instrument cutout. Length: 8. five, eight ounces/239 grams Gold Standard Servo 75, 765 grams P/N 11-06549

COMMANDER 2900 KLN-900 DOCKING STATION

The Commander 2900K is Lone Star Aviation’s Docking Station for BENDIX/KING ONE ELL KLN 900 D-S-Mounted GPS. The Portable Docking Station is designed to let you e plore the KLN 900 features in a non-flying environment... in the comfort of your home or office. Operation is simple and fast, ust slide your KLN 900 into the Commander’s Tray and you are ready to go. P/N 11-04911

COMMANDER GARMIN GNS-430/530

Lone Star Aviation’s Docking Station for Garmin’s GNS 430/530 Flight Management System. The Commander is a portable Docking Station designed to let you e plore the Garmin GNS 430/530 features in a non-flying environment. Features: Simulate your route of flight and published approaches. * Access eids and stars. * Program and store flight plans. * Simulate approaches * Enter and store waypoints. * Reduce your learning curve. * Operating your GNS430/530 in flight will become automatic. P/N 11-04864

GNS 430 .................................................. P/N 11-04866
GNS 430 INT ........................................... P/N 11-04867
GNS 530 .................................................. P/N 11-04868
GNS 530 INT ............................................ P/N 11-04869

GARMIN COMMANDER GNS 480

The Commander 2000 GNS480 is a Docking Station designed to allow you to e plore the Garmin GNS 480 CXN-80 features in a non-flying environment. Features: Simulate your route of flight and published approaches. * Access eids and stars. * Program and store flight plans. * Simulate approaches * Enter and store waypoints. * Reduce your learning curve. * Operating your GNS480 CXN-80 in flight will become automatic. P/N 11-04916

COMMANDER 2900 KMD 150 & 250

Lone Star Aviation’s 2900 Station has been designed for the KMD 150, 250 equipment so that the user can practice their GPS, Display and all of its functions in a non-flying environment. The 1 port cooling fan LS03-02013 plugs into the rear panel of the Commander Station for easy set up so you can get right into the training. P/N 11-04921

COMMANDER STATION FOR C-5000

Lone Star Aviation’s Commander Station has been designed for the ulsfberg C-5000 Control panel the pilot can practice GPS, control head functionality at his or her own pace in a non flying environment. The 1 port cooling fan LS03-02013 plugs into the rear accessory panel and provides 6-8 CFM of cooling to the C-5000 receiver. P/N 11-04928

LONESTAR ACCESSORIES

Description Part No. Price
1 Port Dock Station Cool Fan 11-04859
Multi-Signal Coverter 11-04892
KA-20 Mounting Bracket 11-04872
MX-20 Power Supply and Cable Kit 11-04819
SB to Serial Converter 11-04884
150, 155, 165 Garmin Connector 11-04899
II Morrow with GX-55 11-04900
II Morrow GX60 Connector 11-04904
II Morrow GX50 Connector 11-04906
CNX-80 Power / Simulation arness 11-04918
Garmin 100 Connector 11-04903
250, 300 Garmin Connector 11-04907
II Morrow 2001 Connector 11-04901
RF Magneto Filter 11-04925
SB Military Cable 11-04891
KL-N98-94 Data Cable 11-04892
KL-N88-Power Cable 11-04881
KL-N35A Power Cable 11-04880
KL-N98 Power Cable 11-04879
KL-N90A/P Power Cable 11-04878
KLX-135 Power Cable 11-04874
KLX-136 Power Cable 11-04873
KLN-900 A/C Panel 11-04913
KLX-990 Power Cable 11-04912
SD Converter TSO 24-13.8 VDC 11-04894
DC Converter TSO 24-16 VDC 11-04895
DC Converter 24-19VDC TSO 11-04898
6 Port Cable Kit 11-04914
6 Port Cable Kit 11-04915

543
EBC ELTS

Emergency Beacon Corporation’s ELTs are among the most popular on the market today due to their size, weight and convenience. These ELTs do not use lithium batteries, include e-temal antennas and no AD notes have ever been issued on them. Internal antennas and test switches are included with the ELTs. Eicoplot EBC ELTs are also available on request. EBC-102A is the smallest cabin mounted ELT available. Operating the toggle switch on top of the unit allows manual activation or pre-flight testing of the EBC-102A. The EBC-502 is fully approved by the FAA and FCC under TSO-C91a and is satellite compatible. It uses a 9V battery pack and comes complete with a handhold lanyard, mounting bracket, and batteries. It is easily installed and requires no e-temal antenna or cabling. Note: C-10 portable ELT is manually operated only.

Pocket-Size EBC-102 150 mi. portable ELT 11-17902
150 Mile ELT for aircraft installation EBC-102A
300 Mile ELT EBC-302
300 Mile ELT EBC-302V
2.5 2 D 8 EBC-502
EBC GS21 ELT Battery 11-04771

POINTER 3000 SERIES ELTS

The Model 3000 AF/AP and 3000 AF have been in production for twenty years and are now revised to incorporate the upgrades of RTCA DO-183 for emergency locator transmitter. The new models, designated 3000-10 AF/AP and 3000-11 AF are interchangeable with existing units in form, fit and function. The 3000-10 and 3000-11 transmitters incorporate an alkaline battery pack specifically designed to endure the short term extreme thermal variations and mechanical shock requirements of RTCA DO-183. Installed weight is 2.0 lbs. Emergency voice transmission is provided on the 3000-10 transmitter if desired. Size: 3.5 x 3 x 12 lbs. 3.6 lbs. Model E-01

Application Part No. Price

NARCO 910 & 10 ELT ANTENNA
Narco 910 10 ELT Antenna EBC-GS21 11-04771

ACK TECHNOLOGIES ELT MODEL E-01

This outstanding ELT from ACK Technologies meets or exceeds all the current requirements of TSO-C91a as specified by the FAA. E. Elts require power output by over 100 and features a coheoler beacon designed for satellite detection. ACK also includes a miniature instrument panel c-roller for verification and testing of proper operation of the unit. Rated for full salt water immersion which far e-tems FAA TSO requirements. Comes complete with mounting tray, portable e-temal antenna, installation harness, and life raft tether. Latest duracell alkaline D cell batteries which eliminates high replacement battery costs. Size: 7.75 x 2.75 x 2.75 lbs. 3.6 lbs. Model E-01

ELT Replacement antenna P/N 11-17961
ACK E-01 ELT G-Switch E-01G P/N 11-05357

ACK E-01 REMOTE SWITCH

RCPI nit / Remote Switch / E-01 E-01-05 P/N 11-05262

ACK 406/121.5 MHZ E04 ELT

The all new E04 ELT is a direct replacement for the more than 62,000 model E01 ELTs by ACK on the market today. The new E04 fits directly into the current E01 mounting trays and uses the same remote control panel indicator. The E04 or e-temal antenna will utilize your current antenna mounting and wiring installations.

Undergoing certification testing, ACK is not accepting orders for the E04 until ELT certification process is complete. Available Appro. July 1, 00

Features: * Accepts GPS position input data from Bendi, King, Garmin, Nema 0183 GPS * New antenna is swept back 20 degrees, and features a molded plastic base. * 5 watts 406M Hz for 24 hours, and 100 Mw 121.5 M Hz for 48 hours. * New simple plug in audible alert indicator. * New lithium battery pack offers a 5 year battery life, and makes it substantially lighter. * Can use Ameri-kings remote panel indicator

Description Part No. Price

ACK E-04 406M ELT KIT EBC-102/302 11-04758
Acknowledging E-04 G-Switches E-04G 11-05537

POINTER E8000 SERIES

The COSPAS/SARSSAT search and rescue network will discontinue monitoring the current 121.5/243.0 M Hz frequencies as of Feb. 1, 2009. The 121.5/243.0 M Hz frequencies will continue to be monitored on a voluntary basis by alling aircraft and utilized by the current search and rescue organizations. After this date, the COSPAS/SARSSAT will monitor only 406 M Hz. The 406 M Hz aircraft ELT, defined by COSPAS/SARSSAT operational specifications, incorporates many new features and improvements for search and rescue. To comply with the new requirements, Pointer, Inc is pleased to announce the Model 8000 series ELT. The transmitter design incorporates the functional and programming requirements of COSPAS/SARSSAT specification CST-001, FAA RTCA DO-204 and TSO-C126. The Pointer E8000 Model 8000 series transmitters feature a phase modulated aircraft identification signal that provides hemispheric activation.

Description Part No. Price

Model 8000-1 AF Complete kit 11-07543
Model 8000-1 AF * Complete kit New Model is a helicopter version with four additinal G-switches to provide hemispherical activation 11-07544

International Version

Description Part No. Price

Model 8000-1 AF Complete kit 11-07545
Model 8000-1 AF * Complete kit New version is a helicopter version with four additinal G-switches to provide hemispherical activation 11-07547

Accessories

Description Part No. Price

Battery Pack 11-07548
Mounting Bracket 11-07549
Remote Switch 11-07550
Remote Antenna 3000-15 11-07551
Retro Fit Kit 3002

ELT REPLACEMENT BATTERIES

Note: ECT Replacement batteries are factory new and meet or exceed current requirements. Request current price on any ELT replacement battery or ELT. New shown batteries are non-returnable due to shelf-life.

Application Part No. Price

NARCO 910 ELT 11-17945
POINTER 2 yr. ELT 11-17945
Shack-2 2 yr. 11-17955
Arte 110-4 11-17957
EBC GS21 ELT Battery 11-04758
ELT-200 11-17945

ELTS

544
EBC 406-SERIES ELT’S

The EBC 406 is designed with the latest technology. These transmitters have encapsulated electronics and battery packs to provide Failure Protection against shock, moisture, and other environmental hazards. They have a built-in monitor that emits a loud beeping tone if the ELT is activated. The ELT can be activated either automatically or manually. The EBC 406 AP-Series ELT should be installed in the cabin of the aircraft. Allows for easy removal of the ELT in case of an actual emergency - unconnected antenna. The EBC 406 AF-Series ELT should be installed in the tail section of the aircraft for those who prefer that ELT location. In that case, a remote unit is provided for the aircraft panel and the ELT can be controlled by the pilot. The antenna is used when the transmitter is removed from the aircraft. All EBC 406 ELT’s have a built-in self-test feature that allows the pilot to check the ELT and the antenna connection. Both cabin and tail mount ELT’s use an e-tential antenna.

- Operating Freqs: 406.028 MHz and 121.5 MHz
- Output Power on 406 MHz: 5W for 24 Hours at -20C • Output Power on 121.5 MHz: 50mW min for 50 Hours at -20C • Operating Temperature: -20 to +55C • Useful Battery Life: 5 Years or 1 Hour of Cumulative Use • Modulation 406 MHz: Biphase L (16KOGD) • Modulation 121.5 MHz: Sine Tone 1800Hz to 300 Hz. 24 • Time/Second • Automatic Activation: Velocity Range of 4.5 feet per Second • Altitude: 50,000 feet • Decompression: 8000 feet to 40,000 feet • High Pressure: -15,000 feet • Humidity: 95% for 50 Hours • Shock Performance: Withstands 500G’s on 6 axes • Vibration: Withstands 10 G’s • Immersion: Withstands 24 hours in Salt Water • Warranty: 2 years, Made in the SA.

EBC 406AP
for e-f wing aircraft. Includes transmitter, survival antenna, mounting bracket, e-tential whip antenna with battery pack. For cabin mount installation.

- Part No: 11-05917
- Price: $1,975

EBC 406AF
for e-f wing aircraft. Includes transmitter, survival antenna, mounting bracket, e-tential whip antenna with cable, remote control monitor with connector kit, battery pack. For aircraft tail installation.

- Part No: 11-05918
- Price: $1,975

EBC 406AP M
Cabin mount ELT. EBC 406 028, 121.5 and 430 Mhz. Non-rejective flat black for night vision equipment compatibility. Its integral antenna, omni-directional, is designed for night use.

- Part No: 11-05921
- Price: $1,975

EBC 406AF M
Cabin mount ELT. EBC 406 028, 121.5 and 430 Mhz. Non-rejective flat black for night vision equipment compatibility. Its integral antenna, omni-directional, is designed for night use.

- Part No: 11-05922
- Price: $1,975

EBC 406APM
Same as AF system but with omni-directional helicopter activation system. For helicopter use only.

- Part No: 11-05920
- Price: $1,975

EBC 406APR
Same as AF system but with omni-directional helicopter activation system, for helicopter use only.

- Part No: 11-05925
- Price: $1,975

ACCESSORIES

- BB-12 Mounting bracket for EBC 406AP series ELTs 11-05927
- BB-12A Mounting bracket for EBC 406M, APD and AF M 11-05928
- BB-14 Mounting bracket for EBC 406AP series ELTs 11-05930
- RCM-1 Remote Control Monitor for EBC 406AF series ELTs with remote 11-05931
- ANT-406 E-tential whip antenna for both EBC 406AP and AF series ELTs. Test antenna.

- Price: $975
- ANT-406 Survival tial antenna for all EBC 406 ELTs. Three frequency.

- Price: $975
- ANT-406L Tial rod antenna for helicopter or high speed use. For use with three frequencies 900 ELTs.

- Price: $975
- CR-1 Battery for when ELT is ready.

- Price: $975

Manual Operation and Installation Manuals 11-05936

AMERI-KING AK-451 ELT

The AK-450 ELT from Ameri-King is FAA TSO-C91a approved and meets FCC rule for improved satellite detection. It is a voice transmitter capable of visual, on-ground handheld lant yard web, mounting tray and clamps. Size 4.27 w 2.95 h 5.64 l. 2 lbs. 10 oz. 2 yr factory warranty ATTENTION 2009, the international COSPAS-SARSAT satellite system will no longer provide satellite-based monitoring of the ELT. The satellite is expected to terminate in 2021. Mhz satellite signals from ELTs operating on the lower frequency will only be detected by ground-based receivers such as local airport facilities or air traffic control facilities or by overflying aircraft. ELT for helicopter a les AK-450-1...PN 11-01249

- AK-450 Remote Switch...PN 11-04937
- AK-450 Coa i Assembly...PN 11-04938
- AK-450 Antenna 450017...PN 11-03030

AMERI-KING AK-451 ELT

*Mic Jack feature not available on 40 MH T E Ts FAA TSO d approved, EASA ETSO d approved, 406 MHz ELT Emergency Locator Transmitter with or without S-ANITAK and S-ANITAK II equipped with the 406.028 MHz frequency for improved satellite detection. It is a voice transmitter capable of visual, on-ground handheld lanyard web, mounting tray and clamps. Size 4.27 w 2.95 h 5.64 l. 2 lbs. 10 oz. 2 yr factory warranty ATTENTION 2009, the international COSPAS-SARSAT satellite system will no longer provide satellite-based monitoring of the ELT. The satellite is expected to terminate in 2021. Mhz satellite signals from ELTs operating on the lower frequency will only be detected by ground-based receivers such as local airport facilities or air traffic control facilities or by overflying aircraft. ELT for helicopter a les AK-450-1...PN 11-01249

- AK-450 Remote Switch...PN 11-04937
- AK-450 Coa i Assembly...PN 11-04938
- AK-450 Antenna 450017...PN 11-03030

INTERNATIONAL PROGRAMME E TS

Can be programmed for international registered aircraft. Specify when ordering.

ACCESSORIES

- Installation Adapter Kit 11-06988
- AK-451 L Replacement Battery 11-06977
- AK-451-1 D Software Reader 11-06974
- Optional Mic Spec Remote wiring harness Assembly 27...11-06760
- hr Ant, General Aviation, 250 knots, 406/121.5 M Hz 11-06690
- hody Pack Amazon, 42305, 423071, M 11-06672
- rty Pack lithium 6092, 4 D Cells, 87 m...11-06685
- rty Pack, ETS 350 knots, 423071 M Hz 11-06689

AMERI-KING AK-451 PERSONAL LOCATOR BEACON

The AK-451 is FAA approved, 406 MHz satellite ELT Emergency Locator Transmitter, triple 406 SATellite /243 Military /121.5 Civilian Mhz frequencies, aving triple frequencies insures your distress message reaches both NOAA Satellite Operation and S Air Force AFSR Ground Operation, Search and Rescue Team, with 100% fully confidence, due to transmitting on both 243.0 Mhz Military and 121.5 Mhz Civilian bands, for immediate ground search dispatch. Package Includes: *AK-451 w/ Battery AFAP ELT *Portable Antenna *hp, Rod, or Blade Antenna *Remote Switch *Prefabricated 25 Foot Irving Assembly *Audible Buzzer Monitor *Sir Foot Coa i Assembly *Mounting Tray *Velcro older *Portable Soft Case

International Programme E Ts
Can be programmed for international registered aircraft. Specify when ordering.
KANNAD 406 ELT'S

KANNAD 406 AF (60) - Designed to be installed near the tail and to be connected to an outside antenna. A sophisticated 6 way shock sensor system will automatically activate the ELT automatically in the event of a crash. Its small size and light weight makes it ideal for any helicopter. The Mounting Bracket, 1 Strap is included. Features: * Optional Navigation Interface transmits GPS coordinates significantly shortening Search and Rescue response time. * Operates without aircraft power and incorporates an internal alarm/buzzer avoiding costly installation procedures. * Si year lithium manganese battery. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including batteries 2.44 lbs 1110 g / ma 2.60 lbs 1180 g

KANNAD 406 AF - Designed to be installed near the tail and to be connected to an outside antenna. A sophisticated 6 way shock sensor system will activate the ELT automatically in the event of a crash. Its small size and light weight make it ideal for general aviation. The Mounting Bracket, 1 Strap is not included. Features: * Optional Navigation Interface transmits GPS coordinates significantly shortening Search and Rescue response time. * Operates without aircraft power and incorporates an internal alarm/buzzer avoiding costly installation procedures. * Si year lithium manganese battery. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including batteries 2.44 lbs 1110 g / ma 2.60 lbs 1180 g

KANNAD 406 AF-H - Can be installed on board helicopter in flat position Features: * Optional Navigation Interface transmits GPS coordinates significantly shortening Search and Rescue response time. * Operates without aircraft power and incorporates an internal alarm/buzzer avoiding costly installation procedures. * Si year lithium manganese battery. * Rod ANT300 or Blade ANT650 ELT antennas sold separately. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including batteries 2.84 lbs 1290 g

KANNAD 406 AS - The KANNAD 406 AS is a aeronautical survival beacon. Thanks to its small size and light weight, the KANNAD 406 AS fits easily inside a life raft. It is supplied with a floating collar. Features: * Battery replacement is only every 6 years. * Precise pinpointing (<1NM) due to the unparalleled frequency accuracy of the 406 transmitter. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including battery, au ilinary antenna and floating collar. 2.53 lbs 1150 g

KANNAD 406 SURVIVAL - Fitted with a water switch sensor, it is automatically activated when in contact with water. Emergency locator transmitter of type S, the survival is supplied with a floating collar. Features: * Si year lithium battery. * Includes water sensor switch and is automatically activated when in water. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including battery, au ilinary antenna and floating collar. 3.031 lbs 1375 g

KANNAD 406 AP - Installed near the tail and connected to an outside antenna. A sophisticated shock sensor system will automatically activate the ELT automatically in the event of a crash. When removed from the bracket and connected to the au ilinary antenna, the KANNAD 406 AP becomes an autonomous survival beacon operating on 3 frequencies 121.5/243/406 Mz. Features: * Si year lithium manganese battery. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including battery, au ilinary antenna and floating collar. 2.84 lbs 1290 g

KANNAD 406 AP-H - Installed on board helicopter in a flat position. When removed from its bracket and connected to an outside antenna, the KANNAD 406 AP becomes an autonomous survival beacon operating on 3 frequencies 121.5/243/406 Mz. Features: * Si year lithium manganese battery. * Three frequency transmitter 121.5 / 243 / 406 Mz * Si eight including battery, au ilinary antenna and floating collar. 2.84 lbs 1290 g

KANNAD 406 AF-COMPACT ELT KIT - Designed for all light aircraft requiring a very small ELT that is fully FAA TSO-C126 approved. The robust and reliable shock sensor will automatically activate the ELT in the event of a crash. The pilot can also manually activate the ELT in case of emergency. Features: * Si year lithium manganese battery. * Complete kit with install manual. * Two frequency transmitter 121.5 / 243 / 406 Mz * Si eight including battery, au ilinary antenna and floating collar. 2.84 lbs 1290 g

KANNAD 406 AF-Compact, International - P/N 11-0631

KANNAD 406 XS-3 GPS

A personal COSPAS-SARSAT beacon with built-in GPS. Compiles with class 2 of the COSPAS-Sarsat global system. Programmed in the event of a crash, the pilot can also manually activate the ELT in case of emergency. Features: * Si year lithium manganese battery. * Complete kit with install manual. * Two frequency transmitter 121.5 / 243 / 406 Mz * Si eight including battery, au ilinary antenna and floating collar. 2.84 lbs 1290 g

KANNAD AERIALS

KANNAD ACCESSORIES

KANNAD 406 ELT'S

KANNAD 406 AF-Compact, International - P/N 11-0631

KANNAD ACCESSORIES

RC200 - REMOTE CONTROL - Outline Dimensions 1.3 / 1.97 / 1.69 in 33 / 50 / 43 mm. 3-position push switch ON, SMART, TEST/RESET. D-S B 9 pin connector with threaded locking device NC 4-40. The Kit includes mating S B-D9 connector for easier installation. Applications: AF-COMPACT, AF, AP, AP-AF-Compact - Switch is not waterproof. Cannot be installed flat.


MOUNTING BRACKET 1 STRAP - Designed to fit the ELT with a retaining strap for quick removal in an emergency to maintain the ELT in place during 500 G shocks for 4 ms. Applications: All KANNAD ELTS - P/N 11-06296

PROGRAMMING DONGLE, ASSY - Din 12 connector with serial memory module 8/12 bits for programming operations. Fitted with a female DIN12 connector on RCP side instead of 19 Pts aeger connector. Contains the aircraft identification data. "A" avoids the use of specific programming equipment such as PR600 Computer in case of ELT replacement. Compatible with all KANNAD ELTS. - P/N 11-06304

DIN12 CONNECTOR - For connection to Remote Control Panel, CS144 interface module, dongle or programming equipment. Compatible with all KANNAD ELTS. - P/N 11-06305

KANNAD PROGRAMMING DONGLE - A smart connector identical to the DIN12 that is used to store aircraft programming information. Once attached to the ELT wire harness it allows fleet operators to move any ELT to any other aircraft. The stored aircraft data will be automatically downloaded into the ELT. This connector is used in place of the DIN12 connector. Required for Navigation Interface connection.

KANNAD PROGRAMMING DONGLE INT - Can be used with the following Kannad ELT models AF-COMPACT, AF, AP, AP-A, AP-AF, AS, S R-VIVAL model Caution A KANNAD AF-Compact associated with an ANT10 cannot be used as a KANNAD 406 AF even if it may look identical. - P/N 11-06310

KANNAD PROGRAMMING DONGLE - P/N 11-06304

KANNAD 406 PR600 ELT PROGRAMMING TRAINER - Replaces the former PR550 Programming Equipment kit.

KANNAD 406 AS MOUNTING BRACKET - P/N 11-07717

KANNAD 406 AS LOCKING PIN - P/N 11-07718
**ARTEX ME406 ELT**

The Arte ME-406 is a single output ELT. Two emergency frequencies 121.5 and 406.028 MHz utilize the same RF output, requiring only one coaxial cable to connect to the new series of Arte single input antennas. The ELT automatically activates during a crash and transmits the standard swept tone on 121.5 MHz. Every 50 seconds for 440 milliseconds the 406 MHz transmitter turns on and transmits an encoded digital message to the Cospas/Sarsat satellite system. The mounting hardware for the ME-406 Series is compatible with all previous models of Arte 406 Mz, as well as the ELT200 Series, ACK, Pointer Model 3000 ELT and Narco ELT’s. Current owners of Arte 2-frequency ELT can re-use the remote switch in the cockpit as well as the wiring harness from the cockpit to the ELT thus greatly reducing installation costs.

**INTERNATIONAL PROGRAMME E TS**

<table>
<thead>
<tr>
<th>Artex No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
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<tr>
<td>ME406</td>
<td>11-03493</td>
<td>Arte ME406 ELT w/ rod antenna</td>
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<td>ME406</td>
<td>11-04652</td>
<td>Arte ME406 ELT w/ whip antenna</td>
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**ACCESSORIES**

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<th>Description</th>
<th>Part No.</th>
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<tr>
<td>5-Conductor AG 22 Shielded Wiring for ELT to Remote Switch Installation. Recommended by Arte</td>
<td>11-06580</td>
<td>547</td>
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</tbody>
</table>

**ARTEX G SERIES EMERGENCY LOCATOR TRANSMITTER**

The Arte G406-4 transmits on all 3 emergency frequencies 121.5/243.0 and 406 MHz. The ELT automatically activates during a crash and transmits the standard swept tone on 121.5 and 243.0 MHz. The G406-4 is available for use with Arte’s low cost whip antennas or a sturdy fiberglass rod antenna. The G406-4 ELT can be programmed with the aircraft’s 24-Bit GPS latitude and longitude, reduces Search and Rescue response time. The G406-4 has been tested to meet the rigorous requirements of TSO C126 including 500 G shock, 1000 pound crush as well as flame and vibration tests. The G406-4 is specifically designed for use with arte’s low cost whip antennas, or a sturdy fiberglass rod antenna.

**USA PROGRAMME E TS**

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<td>Arte G406-4 ELT w/ whip antenna</td>
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<td>G406-4</td>
<td>11-01166</td>
<td>Arte G406-4 ELT w/ rod antenna</td>
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<td>406-4</td>
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<td>406-4</td>
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<td>Arte ELT/NAV Interface</td>
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<tr>
<td>Arte G406-4 Replacement Battery</td>
<td>11-02946</td>
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<tr>
<td>S-Conductor AG 22 Shielded Wiring for ELT to Remote Switch Installation. Recommended by Arte</td>
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**ARTEX C406 ELT**

This system operates on the latest Search & Rescue SAR frequency of 406.025 MHz in addition to 121.5 & 243.0 MHz. Comes ready to connect to the Arte ELT NAV Interface, which enables the ELT to transmit Latitude and Longitude data. Includes ELT transmitter, 120/240 S. Battery, battery pack, bracket, remote switch, horn, buzzer, coax cables, high speed blade antenna, installation hardware, and installation and operation manual. The C406-4 antenna system is approved for aircraft operating speeds up to Mach 1, and C406-2 is approved for speeds up to 350 knots. The C406-1 uses a single connector antenna and a single coaxial cable to accommodate all 3 frequencies. The C406-1 and C406-2 are compatible with any ELT, ME-406, C406-N, or ELT200 Series ELT. The C406-4 uses an internal GPS module to provide an accurate latitude and longitude position. The C406-4 also includes a high-speed blade antenna that is compatible with all previous versions of ELT. The C406-4 is tested to meet the rigorous TSO requirements for installation and use.

**USA PROGRAMME E TS**

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<td>C406-1</td>
<td>11-02998</td>
<td>C406-1 ELT with 110-340 Blade Antenna</td>
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<td>C406-2</td>
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<td>C406-2 ELT with Rod Antenna</td>
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<td>C406-1 Replacement Battery Kit</td>
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<td>C406-2 ELT w/ Rod Antenna</td>
<td>11-02998</td>
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**ARTEX C406-N ELT**

The Arte C406-N is a single output ELT that incorporates latitude/longitude information from the aircraft navigation system and transmits it digitally to the Cospas/Sarsat satellite system. The C406-N ELT uses a state-of-the-art GPS receiver to determine the aircraft’s current position and transmits this information digitally to the Cospas/Sarsat satellite system. The C406-N ELT is compatible with all previous models of Arte ELT and transmits a 500 G shock, 1000 pound crush as well as flame and vibration tests. The C406-N ELT is designed for use with Tea’s low cost whip antennas, or a sturdy fiberglass rod antenna. It is specifically designed for use with arte’s low cost whip antennas, or a sturdy fiberglass rod antenna.

**USA PROGRAMME E TS**

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<td>C406-N</td>
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<td>C406-N ELT w/ whip antenna</td>
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<td>C406-N</td>
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<td>C406-N ELT w/ rod antenna</td>
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<td>Can be programmed for international use</td>
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<tr>
<td>Arte G406-4 Replacement Battery</td>
<td>11-02946</td>
<td>547</td>
</tr>
<tr>
<td>S-Conductor AG 22 Shielded Wiring for ELT to Remote Switch Installation. Recommended by Arte</td>
<td>11-06580</td>
<td>547</td>
</tr>
</tbody>
</table>

**ARTEX C406-P ELT**

The ME-406/P automatic, portable is using the proven technology of the ME-406 and attaching a removable wrap-around au illiary field antenna. It allows the disconnection of the ELT from the installed aerial antenna, removal of the transmitter from a downed aircraft and when attaching the field antenna the distress call is again transmitted with full signal strength to reach the Cospas/Sarsat satellite system. Although Search and Rescue authorities recommend to remain in close proximity to the aircraft, using the ME-406/P in its portable version enables to wait for the Search and Rescue crews in areas sheltered better from the environment.

**USA PROGRAMME E TS**

<table>
<thead>
<tr>
<th>Artex No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>406-P</td>
<td>11-03493</td>
<td>C406-P ELT</td>
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</table>

**INTERNATIONAL PROGRAMME E TS**

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>406-P</td>
<td>11-03493</td>
<td>C406-P ELT</td>
<td>547</td>
</tr>
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</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Description</th>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>ME-406/P</td>
<td>11-03493</td>
<td>C406-P ELT</td>
</tr>
</tbody>
</table>

**ARTEX ELT NAV INTERFACE WITH 24 BIT**

The Arte ELT is designed to be connected to the aircraft’s Flight Management Computer FMC or GPS receiver and the Arte 406 Mz series of ELT’s. Receives continuous position updates from the aircraft’s navigation system and translates it for use by the ELT. The ELT transmits digitally the Latitude and Longitude of the aircraft to the Cospas/Sarsat satellite system. Allows SAR forces to launch an immediate mission to the last known position of the aircraft.

**USA PROGRAMME E TS**

<table>
<thead>
<tr>
<th>Artex No.</th>
<th>Part No.</th>
<th>Description</th>
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**INTERNATIONAL PROGRAMME E TS**

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<th>Artex No.</th>
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<tbody>
<tr>
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**ACCESSORIES**

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<thead>
<tr>
<th>Description</th>
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</tr>
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<tbody>
<tr>
<td>ME-406/P</td>
<td>11-03493</td>
<td>C406/P ELT</td>
</tr>
</tbody>
</table>

547
PERSONAL LOCATOR BEACONS

MICROFIX 406 GPS

PERSONAL LOCATOR BEACON

In an emergency, the MicroFI™ transmits on 406 MHz via the COSPAS-SARSAT satellite system with the sender's precise location and identity. The signal is detected by a satellite, the MicroFI™ built-in 12 channel parallel GPS acquires then transmits LAT/LON message to reach local rescue centers with e-act coordinates to within typically 98 feet anywhere in the world. The signal includes both geographical location and the specific distress signal. The signal is sent to local and regional rescue services and activates an automated 911 call.

SPOT SATELLITE PERSONAL TRAC ER

The world's first satellite messenger. Whether you're using it to check in on someone, or calling for help - SPOT gives you vital link to your friends and family wherever you are. It's easy to use, and its unique technology, SPOT works around the world - even where cell phones don't. Message "E" port can now download your messages to 3 different formats: * KML (xml format compatible with Google Earth) * GPX - the e-act format. COSPAS-SARSAT application - CSV (comma separated ascii file) Functional Specifications: SPOT features four key functions that enable users to send messages to friends, family or emergency responders, for example:

- Alert 9-1-1 - Ask for Help - Request help from friends and family in your exact location.
- Check In - Let contacts know where you are and that you're okay.
- Track Progress - Send and save your location and allow contacts to track your progress using Google Maps™.
- Annual Service fee required. Please call or email for current rates.

SPOT CARRYING CASES - Carrying cases feature:

- Balistic nylon construction
- High visibility
- Reflective labeling
- 5 Year warranty
- 5 Year battery life

MCMURDO FASTFIND PLB WITH GPS

Get a FastFind PLB as small as a mobile telephone. Fits easily into backpacks, on life jackets...put it about anywhere, and get found anywhere in the world. No subscription fees are required, and weighs 5.3 oz. Features:

- FastFind 210 Category 2, will not float
- Programming Optical infra-red link
- Temperature -4 F to 131 F
- Battery type and life 9V Lithium 5 years storage, then 24 hours operating
- Sealing. Temporary immersion to 100 F for 5 mins.
- IP 58, IPX7 - eight 150g 5.3 oz
- Altitude* MIL-STD-810E 10,000 feet
- MIL-STD-810E 10,000 feet
- EPIRB temperature range -4 F to 131 F
- EPIRB sealing depth 10,000 feet
- EPIRB temperature range -4 F to 131 F
- EPIRB mounting
- 5 Year warranty
- 5 Year battery life

XCOM GME MT410G PERSONAL LOCATOR BEACON WITH GPS

GME MT410G Accusat PLB Personal Locator Beacon 406 MHz EPIRB with GPS. Features:

- High location accuracy
- Aerofix Mounting kit
- Meeting the demands of both commercial mariners and recreational boaters, the new McMurdo SMARTFIND heralds the arrival of the next generation in EPIRB technology. This compact and stylish unit is available as a standard 406 MHz EPIRB. Features:

- Stylish and compact
- Non-hazardous battery for safe and easy transportation
- Available in manual or automatic housing
- Brightness LED lighting
- Flashing locator lights
- Comprehensive diagnostic and self-test facilities
- 5 Year warranty
- 110 yard battery life

ACCESSORIES FOR MCMURDO PLB

Fastfind 20 degree C Battery .................................................. P/N 10-02817
Fastfind 40 degree C Battery .................................................. P/N 10-02816

548
SHADIN AMS 2000 ALTITUDE MANAGEMENT AND ALERT SYSTEM

In a range of feature previously unavailable in general aviation, the Shadin Avionics AMS-2000 Altitude Management and Alert System brings advanced instrumentation to new levels of function and affordability. The Shadin Avionics AMS-2000 uses information from Mode-C altitude encoder to deliver:  
• Time-based Altitude Alerting, rather than fixed altitude buffers.  
• Automatic calculation and display of Density Altitude.  
• Real-time display of IWS without the inherent lag of your aircraft's static system.  
• Calculation and display of Aircraft and Engine Performance  
• Percentage at your desired.  

These are but a few of the Standard features that are make the AMS-2000 the best value in advanced altitude monitoring instrumentation.  

FAA approved. TS0 CR8a, DO-160B.  

An appropriate audio and visual warning broadcast upon deviation outside a user-selected envelope surrounding your assigned altitude.  

• Smooth capture of your cruise altitude is facilitated by a level-off warning sounding and displayed at a user-defined distance from target altitude.  

• Alerts you just above your pre-selected Decision Height or MDA.  

• Gear-down reminder.  

• Displays density altitude and aircraft/engine performance percentage.  

• Digital display of altitude from -1000 to +62,000 feet in 100 foot increments.  

• Adjustable audio alert tone and level.  

• Compatible with most Mode-C transponders in current production.  

• Standard rectangular 1/2 ATI configuration.  

• Made in the U.S.A. the AMS-2000 features a 12-month warranty.  

The AMS-2000 coupled with the Falcon Altitude Encoder provides all advanced altitude alert functions previously noted, plus the following high-resolution altitude management functions:  

• Time-based level-off warning sounding and displayed 15 seconds from target altitude—smooth capture is assured regardless of climb or descent rate.  

• Digital display of altitude from -1000 to 62,000 feet in high resolution, 10-foot increments.  

• Digital reading of Instantaneous Vertical Speed (IVS).  

• Decision envelope is adjustable in foot increments.  

Falcon Altitude Encoder .................................P/N 10-03711  

P/N 11-12035

R.B.S. Module for Strike Finder ..................11-00350  

Strike Finder Upgrade .................................11-00349  

Strike Finder Lightning Detector w/o Gyro ..11-04733  

SPIDERTRACKS

Spidertracks A Portable Real-Time Light Tracking Solution  

Portable global tracking solution using GPS and  

nautical latitude and longitude.  

Antennas integrated in spidertracks unit  

• Cost effective  

• Through portability, no installation certification required  

• Simple to install and use  

• Iridium satellite network - real time, gap free, guaranteed reliability  

• Can save money through flight-following and better planning/logistic management Track any mobile asset anywhere in the world.  

• Easy to use on completely secure web-interface, accessible from anywhere in the world  

• Simple data update configuration based on user definition  

• Reporting location based on distance, time or combination of both  

• Commercial configuration allows tracking of all units in a fleet or on a single unit  

Two-way communication between pilot and the operations based with the optional keypad  

P/N 11-06980

FLYCAM 1000 VIDEO MONITOR SYSTEM

Fuselage or wing mountable waterproof Day/Night  

• Color CCD camera coupled with a multi-purpose  

• 6.8 Inch LCD Video Monitor and complete cable assemblies.  

• Rugged design made to commercial aircraft quality and performance standards at a low price point.  

• This high-resolution 6.8 Inch LCD Video Monitor delivers pictures clarity and excellence to view clear details at all points.  

• Robust Video input processes the video noise and can operate with any  

• 14 or 28V DC electrical system.  

• Features.  

• se to monitor forward and under views of aircraft that may be blocked during taxing, take off, landing, or while in flight.  

• Kept in the aircraft for use in Day or Night with very low light  

• ideal for all small aircraft particularly tail dragger type aircraft.  

• Multi-function LCD Video Monitor will work with all NTSC sources so it can be used as a high quality monitor for additional video cameras, DVD players or moving map sources when not being used for the Flycam.  

• Be used with a simple low cost video input switch.  

• Simple Interface requires a switch for Dimming controls of the LCD Monitor for Day or Night time operation.  

• Three dimming modes  

• High, Medium, and Low Level.  

• On Screen Display feedback shows the operational mode.  

• Shock and water resistant LCD Monitor and Camera components.  

P/N 11-02889
FLIGHT OP EFIS

The Flight Op EFIS features advanced functionality including AAS/GPS, 3D synthetic vision with integrated terrain warning and traffic, highway-in-the-sky ITS, a full color moving map, flight planning and engine monitoring all displayed on large, sunlight-readable screens. The display units are available in either portrait or landscape orientation to accommodate a variety of instrument panels. With a Dual screen package, the second display unit can operate as either a second EFIS or a powerful MFD, capable of displaying a full-color moving map with traffic, terrain and weather overlays, a full-screen engine monitoring page, or an approach view showing both lateral and vertical approach views. All Sport EFIS and Flight Op EFIS packages include an A.R.S., a AAS capable GPS receiver and an air data computer. Display nits can be upgraded to add an e-trenal video interface to support a FLIR camera or other video input. Contact us for ordering instructions for the FLIR/Video interface.

Flight Op Integrated is the evolution of e- perimential avionics. The normal cluster of radios, GPS receiver, and transponder are removed and replaced with remotely mounted components. Radio frequencies are tuned and transponder codes are set in the Integrated EFIS and MFD display units. Flight Op Integrated is offered in eight standard packages or custom packages may be specified by choosing individual components to suit specific needs. Integrated packages feature display units with additional communications channels to support more devices than the standard Flight Op packages. Single packages include a single display unit while Dual packages include two display units. All packages include an A.R.S., a AAS capable GPS receiver, an air data computer, a Mode C transponder, dual Comm radios, a VOR/LOC/GS receiver, an audio panel with marker beacon and a wiring harness to support all of these components. Additional display units can be added to a package for an additional price. The Integrated packages can support up to 4 display units. Display units can also be upgraded to add an e-trenal video interface to support a FLIR camera or other video input. Contact us for ordering instructions for the FLIR/Video interface.

Engine interface unit and engine/fuel probes are ordered separately as a package depending upon the engine that is installed in your aircraft. Contact us for ordering instructions.

MODE CONTROL PANEL

Aerobonic is the only e-perimential EFIS manufacturer to offer a Mode Control Panel MCP commonly found on commercial et flight decks. The MCP reduces pilot workload by allowing the flight control mode or baro setting to be ad usted with the push of a button or turn of a single knob.

Mode Control Panel........................................P/N M1000-10000

RADIO CONTROL PANEL

The RCP reduces workload by allowing the pilot to set radio frequencies without the use of the OP integrated soft keys. The RCP is available in a portrait vertical or landscape horizontal orientation to allow for a variety of mounting locations in the instrument panel or anywhere it is convenient.

Landscape RCP........................................P/N RC10L-10000
Portrait RCP........................................P/N RC10P-10000

INTEGRATED AVIONICS SYSTEM (IAS)

The Integrated Avionics System IAS represents the state-of-the-art in EFIS for the e- perimential market. This is the only truly integrated glass panel system available that includes AAS/GPS, all radios and transponder, synthetic vision and ITs and a FLIR/Video interface in a single package. The IAS-E features two 10.4 landscape display units with integrated controls for controlling remotely mounted communication and navigation radios.

IAS-E........................................P/N EAT10-243530

Engine interface unit and engine/fuel probes are ordered separately as a packages depending upon the engine that is installed in your aircraft. Contact us for ordering instructions.
DYNON

DYNON EFIS-D10A

Dynon’s EFIS-D10A is the most popular Electronic Flight Information System on the market today. This instrument fits into a standard 3-1/8" panel hole, making it an ideal candidate for replacing vacuum and electric attitude indicators. This innovative design consolidates all your flight instruments into a sunlight-readable, 4 diagonal, color LCD. Key safety features include Dynon’s optional Angle-of-Attack/Pitot design that alerts pilots of potential stall conditions and an optional Li-ion backup battery which will keep the instrument running for 2 hours in the event of a power bus failure.

Instruments included: Attitude Indicator - Altimeter Indicator - Vertical Speed Indicator - Gyro-Stabilized Compass - Heading - Turn Coordinator/Ball - Turn Rate - Clock/Timer - G-Meter/Voltmeter - Angel-of-Attach/(w/ optional Dynon AOA pitot) • HSI • Serial altitude encoder output to your transponder ALL SENSORS INSIDE - Includes 15 solid-state sensors all inside the instrument housing eliminating any complicated installation problems. If desired, an optional e-teal compass/magnetometer and outside air temperature probe may be added to your system. Not for certified aircraft.

EFIS-D10A OPTIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Li-Ion Backup Battery</td>
<td>10-00755</td>
<td></td>
</tr>
<tr>
<td>Remote Compass EIS-D10A</td>
<td>10-01046</td>
<td></td>
</tr>
<tr>
<td>OAT Probe requires EDC-D10A</td>
<td>10-01823</td>
<td></td>
</tr>
<tr>
<td>D10 Flush Mount Bracket</td>
<td>10-00757</td>
<td></td>
</tr>
<tr>
<td>Optional AP74 Vertical</td>
<td>10-03565</td>
<td></td>
</tr>
<tr>
<td>Optional AP74, horizontal</td>
<td>10-03566</td>
<td></td>
</tr>
</tbody>
</table>

EFIS-D100 OPTIONS

Dynon’s EFIS-D100 is the most affordable large screen Electronic Flight Information System on the market today. Based on the best-selling EFIS-D10A, the 7" wide-screen display features large, easy to read text and graphics and is capable of displaying multiple pages side by side in a split-screen format. Includes all of the instruments and features of the EFIS-D10A.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Li-Ion Backup Battery</td>
<td>10-00755</td>
<td></td>
</tr>
<tr>
<td>OAT Probe</td>
<td>10-01823</td>
<td></td>
</tr>
<tr>
<td>AOA/Pitot Probe, unhedged</td>
<td>10-01157</td>
<td></td>
</tr>
</tbody>
</table>

DYNON EMS-D10 ENGINE MONITORING SYSTEM

Ergonomically engineered engine monitor that blends traditional analog gauges with newer digital technologies to provide a user-friendly instrument that enhances safety and peace of mind. ith up to 27 separate inputs available, the pilot’s workload is significantly reduced as the EMS-D10 continuously monitors all sensor inputs for the powerplant, fuel and other miscellaneous systems and immediately annunciates any abnormality requiring attention. A multi-page display environment provides pilots with an excellent systems overview coupled with the added capability of presenting additional detail upon demand to optimize overall management of the various systems. Color graphic screen presentations promotes easy visual scanning for interpretation of the current measurements relative to their normal/abnormal operational limits. hen connected via the Dynon bus, the EMS-D10 can display data from any Dynon EFIS. To keep the look and feel of the EFIS series, the EMS-D10 utilizes the identical sunlight visible, color display, keypad and bezel that preserves the look and feel while additionally allowing greater panel uniformity. Once past the common user interface, the EMS-D10 provides pilots with easy access to detailed sensor data and an instant diagnosis of any system anomaly.

COMPLETE ENGINE PACKAGES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>EMSKIT-4L, 4 cyl Lycoming/Continental Package</td>
<td>10-01161</td>
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<tr>
<td>EMSKIT-4L, 4 cyl Lycoming/Continental Package, Fuel Inj ected</td>
<td>10-01162</td>
<td></td>
</tr>
<tr>
<td>EMSKIT-6L, 6 cyl Lycoming/Continental Package</td>
<td>10-01164</td>
<td></td>
</tr>
<tr>
<td>EMSKIT-6L, 6 cyl Lycoming/Continental Package, Fuel Inj ected</td>
<td>10-01166</td>
<td></td>
</tr>
<tr>
<td>EMSKIT-RTX, 4 cyl, Rota 912/914 Package</td>
<td>10-01830</td>
<td></td>
</tr>
<tr>
<td>EMSKIT-22, 4 cyl, abru 2200 Package</td>
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<tr>
<td>EMSKIT-33, 6 cyl, abru 3300 Package</td>
<td>10-01834</td>
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<tr>
<td>Capacitance to Volt Converter</td>
<td>10-02159</td>
<td></td>
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<tr>
<td>Fuel Flow Sensor</td>
<td>10-01165</td>
<td></td>
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<tr>
<td>SB-Serial Converter</td>
<td>10-01824</td>
<td></td>
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<tr>
<td>D10 Flush Mount Bracket</td>
<td>10-00757</td>
<td></td>
</tr>
<tr>
<td>EGT Thermocouple E., t., i.e.</td>
<td>10-01167</td>
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<tr>
<td>C., T., Thermocouple E., t., i.e.</td>
<td>10-01168</td>
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</table>

DYNON HS34 HSI EXPANSION MODEL

Optional e-pansion module that t-ends the SI function already built into and displayed on Dynon’s EFISs. This panel-mounted device not only e-ends the SI functionality but also enables several new features for any Dynon EFIS, EMS or FlightDEK instrument to which it is networked. Offers greater flexibility when configuring new aircraft panel systems and facilitates future expansion if so desired. Available in the horizontal and vertical mount configurations. Allows Dynon products to be interfaced to multiple radios and GPS devices at the same time. Includes multiple interfaces to accommodate analog, ARINC-429 and RS-232 inputs plus signals from marker beacon receivers and DME devices. Super ser Interface. Backlit to facilitate night flight conditions. Separate knobs are used for setting the heading, the Course OBS or entering general purpose Values. NAV and Bearing Source buttons that facilitate independent selection over each input. Pilots receive feedback of the currently selected navigation source type from separate GPS and NAV indicator lights. Network connected to Dynon’s line of avionics via the Dynon Smart Avionics Bus DSA B. This two-wire connection not only simplifies wiring but t-ends individual module benefits to multiple interconnected Dynon instruments Dimensions 1.639 wide 4.903 high 4.951 deep. Panel Cutout 1.50 wide 4.75 tall 3.81 12.07 cm. Dynon’s SI E., pansion Module - Vertical.............P/N 10-02590         |
|Dynon’s SI E., pansion Module - Horizon...........P/N 10-02773         |

DYNON AP 74 AUTOPILOT SERVOS

Our Dynon EFIS-D10A, EFIS-D100, or FlightDEK-D180 is your autopilot but add servos For added ease-of-use, the optional AP74 Dedicated Autopilot Interface Module adds panel-mounted controls and LED status lights to your autopilot. It allows you to choose pre-arm which of magnetic heading hold, track hold, NAV mode, and altitude hold will be engaged when you turn on the autopilot Servo. Mounting Kit Packages

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-6 Roll Servo Mounting Kit Includes Servo mounting kit RV-6 roll fuselage 101020-001, pkg SV32L</td>
<td>10-03555</td>
<td></td>
</tr>
<tr>
<td>RV-7810 Roll Servo Mounting Kit Includes Servo Mounting Kit- RV-7810 roll R wing 101020-003, pkg SV32 std. output arm 100854-000</td>
<td>10-03556</td>
<td></td>
</tr>
<tr>
<td>RV-7 Roll Servo Mounting Kit Includes Servo Mounting Kit-RV-7 roll R wing 101020-004, pkg SV32 std. output arm 100854-000</td>
<td>10-03557</td>
<td></td>
</tr>
<tr>
<td>RV-7879 Pitch Servo Mounting Kit Includes Servo Mounting Kit- RV-7879 Pitch 101020-005, pkg SV32 std. output arm 100854-000</td>
<td>10-03559</td>
<td></td>
</tr>
<tr>
<td>RV-8 Pitch Servo Mounting Kit Includes Servo Mounting Kit- RV-8 Pitch 101020-002, pkg SV32 std. output arm 100854-000</td>
<td>10-03560</td>
<td></td>
</tr>
</tbody>
</table>

551
The DMS-120 is a large screen Engine Monitoring System that blends traditional analog gauges with digital technologies. The DMS-120 replaces up to 16 different types of gauges which are displayed on a stunning 7 diagonal color screen. The user-friendly, color display and softkey menu system result in a user-friendly instrument that enhances overall safety and peace of mind. The EMS-D120 is so powerful that it is capable of continuously monitoring up to 27 available sensor inputs that cover the engine, fuel and other miscellaneous systems and annunciates any abnormality immediately. The EMS-D120 screen display environment provides pilots with an excellent overview of the system coupled with additional pages of all available information. Each of the color graphic pages are designed to promote easy visual scanning for interpretation of the current measurements relative to their normal/abnormal operational limits. The EMS-D120 key features include leaning via EGT peak detection, fuel computer, user-defined alarm limits and ranges, audio visual alarms, user-configurable pages, simple setup, English or Metric measurement units, system clock, contact inputs, timers and user-friendly soft key menus. The 854 480 high resolution LCD affords split-screen partitioning to display two pages simultaneously. Many of the pages provided offer a high degree of user-defined configurability to accommodate different engine types and pilot preferences. Each screen is easily called up via on-key buttons that provide quick access.

**Sensor Inputs**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 - EGT Type Thermocouple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - C Type Thermocouple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - Fuel Level Resistive 0-1 Ohm or Capacitance 0-5 volt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - RPM Frequency 2 - Contacts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Oil Pressure Resistant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Oil Temperature Resistant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Fuel Pressure Resistant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Fuel Flow Sensor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Manifold Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Volts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Turbine Inlet Temperature Type K Thermocouple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - General Purpose Either resistive or voltage for OAT, Fuel Tanks</td>
<td>7, 4, Coolant Temp/Press, Carb Temp</td>
<td></td>
</tr>
</tbody>
</table>

**EMS Options**

- Capacitance to Voltage Converter P/N 10-02159
- Fuel Flow Sensor P/N 10-01182
- D10 Flush Mount Bracket P/N 10-00757
- EG Thermocouple E type P/N 10-01161
- T Thermocouple E type P/N 10-01168

**Complete Engine Packages**

**Complete Engine Packages**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>EK-180, engine sensors and wiring harnesses</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DYNON FLIGHTDEK-D180**

Dyon's FlightDEK-D180 integrates its best-selling EFIS and EMS Engine Monitor System electronics with a larger 7 diagonal, sunlight readable, color LCD. This instrument boasts a stunning 854 480 pi el display that delivers more than three times the resolution offered by competitive units. FlightDEK-D180 provides all your primary flight instruments in combination with a possible 16 engines gauges. Other key capabilities include a built-in altitude encoder and optional Angle of Attack for added safety. A simple softkey menu system facilitates paging through various screens and activating key functions. Audible and visual alarms are immediately annunciated anytime user-specified limits are exceeded. The price includes a mounting tray, remote compass module and SB-serial converter. Engine probe wiring harnesses provide a way to directly measure this critical flight parameter, angle of attack usually becomes an academic notion which is not thought about while flying. Dynon Avionics was the first EFIS manufacturer to realize the importance of angle of attack and offer an affordable, accurate, and useful way to monitor it.

**FLIGHTDEK OPTIONS**

- Battery P/N 10-00755
- OAT Probe P/N 10-01823
- AOA/Alt Probe heated P/N 10-01157
- AOA/Alt Probe unheated P/N 10-01186
- Encoder Converter Module P/N 10-01159
- Fuel Flow Sensor P/N 10-01156
- EG Thermocouple E type P/N 10-01161
- C Thermocouple E type P/N 10-01168
- Capacitance to Volt Converter P/N 10-02159
- S4 SI E pan. Mdl. Vertical P/N 10-02156
- S4 SI E pan. Mdl. horizontal P/N 10-02773

**DYNON EFIS D6/D60**

The EFIS-D6 and EFIS-D60 are simpler versions of the well-proven 4 EFIS-D10A and 7 EFIS-D100. The primary functions duplicate a traditional si -pack airspeed, altitude, attitude, turn coordinator, gyro stabilized heading DG, and vertical speed, while also adding a voltmeter and altitude encoder. Angle of Attack AOA and a battery backup can be added as options. Both products include a remote compass, and the D60 includes Dyon's high brightness screen. Dyon's Flight Monitor System.

**DYNON HEATED AOA PITOT**

Most pilots are introduced to the concept of angle of attack during their initial flight training, however, as most GA aircraft do not provide a way to directly measure this critical flight parameter, angle of attack usually becomes an academic notion which is not thought about while flying. Dyon Avionics was the first EFIS manufacturer to realize the importance of angle of attack and offer an affordable, accurate, and useful way to monitor it.

**Standard L-Sharp** P/N 10-02158
- Boom style Probe P/N 10-02779
ADVANCED FLIGHT SYSTEMS - GRAND RAPIDS

The AF-3400 can be configured as an EFIS, Engine Monitor, or Combination of both. Both the AF-3400 and AF-3500 systems utilize our Advanced Avionics Bus allowing the pilot and copilot displays to e change screens. It features 6.5. AF-3400 and 8.4. AF-3500 sunlight read- able color LCD display that is 50 brighter than any competitor.

EFIS. Our horizon display is generated from an internal A. RS that is based on certified boards and software. Display features a clear and easy to read airspeed indica- tor with user adjustable color ranges, the altimeter is set using a familiar and convenient adjustment knob, and our heading display is generated from a remote mounted magnetometer. The heading can be displayed on a tape across the top or with our new EFIS DG.

Aircraft Monitoring and Data Acquisition System Developed from our successful AF-2500 monitor, the system continuously monitors and dis- plays not only all aircraft engine data but several other aircraft functions as well. The display can be customized to the user's preference. Any of the standard instruments can be eliminated or added to the screen. AOA. Fly safe with AOA. Our patented AOA module can be purchased to drive the display on the AF-3400/3500 screen.

Check the functionality of our systems, you'll eliminate a surpris- ing number of conventional instruments. Choose one, or two, or three AF-3400/3500 displays and configure the system right for you.

GRAND RAPIDS EFIS S200 SPORT

Far beyond a replacement for the traditional si -pack gyro panel, the Sport S 200 is the basis for a low-cost, glass-panel cockpit, with features to usually found only in the high-end EFIS. The EFIS is the primary instrument for VFR or IFR flight. Functionality - While other entry level EFIS products provide little more than a replacement of the traditional si -pack, the Sport S 200 starts with attitude, gyro-heading, airspeed, altitude, and a graphical engine display. The display is quite simply a Leonardo DRS Environmental Management System (EMS) engine data, combined with the EFIS S 200's ability to display GPS and/or a moving map. The display is easily customized to your preference and can be used as a backup navigation system.

A. RS Processor. All versions of the EFIS horizon series I, and EFIS series I Display unit require a GPS to display GPS related data, and all EFIS models include an internal GPS. All versions of the EFIS horizon series I, and EFIS series I Display unit require a GPS to display GPS related data, and all EFIS models include an internal GPS.

E IS Horiz on Series I - The horizon includes a multi-function display unit, and an A. RS/AvData Computer, providing primary flight data, with e ternal magnetometer, and cable assembly. Moving map, wind, and GPS related navigation functions require a connection to an e ternal GPS not included. A cost-effective and superior alternative to traditional instrumentation. For graphical engine data add an optional EIS.

E IS System Multi- function display - Provides the identical capability of the EFIS horizon series I, ecept it does not include the A. RS/AvData Computer. Capable of displaying primary flight data with a connection to an EFIS horizon series I, or by adding an A. RS/AvData Computer, graphical engine monitoring when connected to an EIS Model 4000/6000/9000 not included , and moving map when connected to a GPS not included . Can be upgraded to a horizon series I for the price difference.

E IS Series I Multiplex Display System - Same as Graphical Engine Monitor Package above, but also functions as a moving map when connected to your GPS. Includes full and split screen versions of engine monitor and moving map.

E IS Horiz on Series I with EIS Module 4000 - Ma immu fe li bility and redundancy. The dual EFIS horizon series I installation performs automatic cross-checks of roll, pitch, heading, and GPS, and is activated in the event of a failure. The dual EFIS horizon series I installation includes two EIS modules, two engine interface units, two EFIS displays, and the AF-3400EE/AF3500EE Combo System.

EFIS SINGLE DISPLAY PACKAGE

EFIS is an acronym for Electronic Flight Information System. The EFIS horizon series I provides primary flight data attitude, altitude, steering , graphical engine data, and a moving map. It is designed as a cost-effective replacement of traditional vacuum-powered mechanical gyro's. Unlike mechanical gyro's, no maintenance is required, and installation is much quicker, easier, and less time-consuming. Aerobatics, vibration, and temperature do not affect the life of the EFIS, as it is completely electronic. In addition to these benefits, the EFIS horizon series I primary flight data is not available from any other manufacturer. It is designed to provide a complete representation of the world outside your cockpit, using data from sensors such as the altimeter, attitude, and moving map display. This information is displayed in a way that is easy to understand and interpret, making it easy to stay aware of your surroundings and avoid any potential hazards.

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Check the functionality of our systems, you'll eliminate a surpris- ing number of conventional instruments. Choose one, or two, or three AF-3400/3500 displays and configure the system right for you.

GRAND RAPIDS EFIS S200 SPORT

The centerpiece of the EFIS horizon series I, is its primary flight display. Combined into 1 intuitive display is attitude, navigation, and the aircraft's current state. The EFIS horizon series I includes a moving map displaying all S airports and navais, plus user created waypoints. Engine data is provided to the horizon EFIS via the proven and well known Environmental Information System products. Features include split screens, convenient controls, integrated navigation and altitude, active redundancy, continuous self-testing and a dedicated attitude display.

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E IS Series I edicated display - The low-cost way to add flat panel technology to your airplane. This display unit provides only the primary flight data, and is designed for use as a backup navigation system.

Graphical Engine Monitor Moving Map Package - Same as Graphical Engine Monitor Package above, but also functions as a moving map when connected to your GPS. Includes full and split screen versions of engine monitor and moving map.

E IS Horiz on Series I with EIS Module 4000 - Ma immu fe li bility and redundancy. The dual EFIS horizon series I installation performs automatic cross-checks of roll, pitch, heading, and GPS, and is activated in the event of a failure. The dual EFIS horizon series I installation includes two EIS modules, two engine interface units, two EFIS displays, and the AF-3400EE/AF3500EE Combo System.

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Check the functionality of our systems, you'll eliminate a surpris- ing number of conventional instruments. Choose one, or two, or three AF-3400/3500 displays and configure the system right for you.
**TRUE FLIGHT DISPLAY - EFIS INTEGRA**

**LS800 TABLET PC**
Measures 8.94 by 6.69 by 0.87 , and it weighs only 2.2 pounds. Its easier to use, stow or transport than any Tablet PC available today and will easily fit in a lab coat pocket or purse. **Genuine innow XP Tablet PC Edition Intel Centrino Mobile Technology**

- Intel Pentium® M Processor ULV 753 (1.2GHz) • Integrated Intel PRO/ Wireless 2200BB • 1GB RAM • 30GB HDD • 8.4” SVGA TFT LCD View Anywhere Display • Integrated Bluetooth® - Ethernet LAN Controller (FL-45 connector) • Secure Digital (SD) Slot • Integrated Fingerprint Reader • Speak Anywhere® Audio Technology • Ambient Light Sensor View Anywhere display uses a proprietary optical enhancement process based on technology initially developed for high-end military aviation and marine applications.

Compared with Motions standard display, the View Anywhere display technology enhances indoor viewing - while substantially improving outdoor viewing.

- 10:1 reduction in unwanted reflectance and glare • 15% improvement in “light pass-through” efficiency • 225% increase in sunlight contrast ratio over the standard display • Better view-ability at wide viewing angles

The View Anywhere display technology also restrains the traditional feel of pen on paper that has become a hallmark of Motion s ink-enabled display.

- “light pass-through” efficiency • 225% increase in sunlight contrast ratio over the standard display • Better view-ability at wide viewing angles

Compared with Motion’s standard display, the View Anywhere display technology enhances indoor viewing - while substantially improving outdoor viewing.

**TRUE FLIGHT CHEETAH FL190 DISPLAY**

The Flight Cheetah FL 190 has all the capabilities and ability to upgrade the Flight Cheetah line at a price that is affordable. Runs on a combination of hard keys and touch screen access, our stylus not required. **Package includes**

- Flight Cheetah FL 190 display. •TrueMap software with capabilities listed below. •GPS antenna receiver. •AC power supply. •DC Power Supply. •eatures: •Intel Celeron M ULV (900MHz). •7” diagonal High Contrast LCD.

- 40 GB hard drive. •10/100 Ethernet, 802.11 b/g, Blue tooth •USB 2.0 x 2 •VGA •40 GB hard drive. •10/100 Ethernet, 802.11 b/g, Blue tooth •USB 2.0 x 2 •VGA

- 2.75 Lbs. •Operating Voltage: DC 12V -28V •Ports: 2 Serial, 1 VGA, Audio In /Out. Supports Bluetooth wireless.

**ACCESSORIES**

- X ORX Receiver P/N 11-04830
- X ORX Software P/N 11-04831
- XRX Traffic Software P/N 11-04832
- Electric Attitude Indicator P/N 11-04834

**TRUE FLIGHT CHEETAH FL210 DISPLAY**

The FL 210 you get the an optimal combination of affordability, incredibly high quality bright display, and a range of capabilities unequalled by anything else you will see out there in the industry. The FL 210 is most comparable to the certified panel install MFD’s in the 10,000- 20,000 range but with far more capabilities, and a far more affordable upgrade path for the future. **features:**

- Display Resolution: 640 x 480 (V) •Display Brightness: 1,000 Nits (7-10 times brighter than typical lap top displays) •Processor Speed: 833Mhz Celeron. •RAM: 512 meg •Storage Capacity: 20 Gig hard drive. •Overall Dimensions: 7.5” x 5” x 3.8”

- Weight: 2.75 Lbs. •Operating Voltage: DC 12V -28V •Ports: 2 Serial, 1 VGA, Audio In /Out. Supports Bluetooth wireless.

**ACCESSORIES**

- X ORX Receiver P/N 11-04830
- X ORX Software P/N 11-04831
- XRX Traffic Software P/N 11-04832
- Electric Attitude Indicator P/N 11-04834

**TRUE FLIGHT ELECTRIC ATTITUDE INDICATOR**

- True Flight’s Electronic Attitude Indicator option automatically monitors your pitch and roll. If you exceed certain parameters that would not be expected in IRF flight you automatically receive an alert on your display with the EAI in the corner of your screen. Provides you with plenty of time to recover, before it develops into a serious situation. It is a solid state device that uses accelerometers on 3 separate axis to connect pitch, roll and yaw. Voltage, Power and data are through the SB cable shown above. Although for supplemental use only, the electronic attitude indicator adds an invaluable layer of safety should your primary attitude indicator fail.

**ACCESSORIES**

- X ORX Receiver P/N 11-04830
- X ORX Software P/N 11-04831
- XRX Traffic Software P/N 11-04832
- Electric Attitude Indicator P/N 11-04834

**EFIS INTEGRA TL-6524**

EFIS Integra TL-6524 is a multifunctional flight monitoring system integrating all primary flight instruments - Altimeter, Vertical Speed Indicator, Air Speed Indicator, Compass, Accelerometer, Chronometers, Turn Bank Indicators, Angle Of Attack Indicators, IAT, OAT etc. The EFIS Integra also combines navigation, SI, CDI with connection to the popular Garmin SL-30 and 3-D terrain for use worldwide. The wide viewing angles, brilliant colour and direct sunlight readability of the display will give you a new dimension of EFIS instrumentation. Proven, state of the art technology and components will provide you with comfortable, user-friendly control. The Integra controls are fully ambidextrous and provide functions that have previously only been dreamt of - listening to your favourite music after inserting your flash drive into the front panel SB port, 3-D visualization of terrain, integrated 3-a is autopilot, direct voice warnings into your headphones, etc.

**Features:**

- Voltage: 10.0 to 32.0 Volts
- Backlights internal or external 5V, 12V or 24V
- Current consumption 500 to 750 mA
- Ma imal voltage and signal current: 30 Volts, 1 Ampere
- Measurement: 1-1
- Operating -20 C to 70 C
- F temperature range
- Relative humidity 95%
- without condensation
- Load: -20 g
- Vibration 1 to 200 z
- 850 grams 0.55 lbs
- Dimensions: 192 x 149 x 90 mm 7.550 x 5.860 x 3.540 inch

**Benefits:**

- Option to select required language. English by default
- Option to simply update firmware by inserting a Flash drive containing the newest firmware version
- Option of pre-setup of glass cockpit according to the particular aircraft type saved in a Flash drive
- Shows a graphical previous flight directly on the glass cockpit display
- Shows a checklist including the voice output
- Shows a flight logbook including name of pilot and instructor, date, time and position of take-off and landing
- Download the history of previous flights to a Flash drive or directly to a PC

**Description**

- Integra TL-6524 System
  **Part No.** 10-03469
  **Price**

**ACCESSORIES**

- TL-6524 Backup Battery
  **Part No.** 10-03470
  **Price**

- TL-6524 Remote Compass
  **Part No.** 10-03471
  **Price**

- TL-6524 Premium Autopilot Key
  **Part No.** 10-03472
  **Price**

- TL-6524 Silver Autopilot Key
  **Part No.** 10-03473
  **Price**

- TL-6524 Gold Autopilot Key
  **Part No.** 10-03474
  **Price**

- TL-6524 Servo / Magnetic Clutch
  **Part No.** 10-03475
  **Price**

- TL-6524 Terrain of Europe
  **Part No.** 10-03476
  **Price**

- TL-6524 Terrain of Asia
  **Part No.** 10-03477
  **Price**

- TL-6524 Terrain of Africa
  **Part No.** 10-03478
  **Price**

- TL-6524 Terrain of North America
  **Part No.** 10-03479
  **Price**

- TL-6524 Terrain of South Pacific
  **Part No.** 10-03480
  **Price**

- TL-6524 Terrain of South America
  **Part No.** 10-03481
  **Price**
LANDING GEAR ALERTS – MGL AVIONICS

INTERCOM GEAR WARN DEVICE II

With the increasing use of head-phones and in particular Electronic Noise Cancelling headphones, it has become more difficult to hear warning horns in the cockpit. Because of this problem, the Intercom Gear WARNING Device or IG D was developed and introduced several years ago. After receiving input from customers, the new IG D II is now available.

The IG D II is a small electronic device that can be connected to either the landing gear throttle warning switch or the Flap P Light or Switch and the Landing Gear Down Light or Switch. The pilots’ headphones are connected to the audio circuit in the IG D II and should an unsafe condition occur, a loud pulsing tone is heard in the pilots’ headphones. In the single input mode, Throttle gear safety switch, if the throttle is reduced and the gear is up, the IG D II will sound. The two input mode with the flap P light and the landing gear down light connected to the sensing inputs, provides added safety by ensuring that the landing gear is down before the flaps are lowered. Should the flap P light go out before the landing gear Down light is on, the warning tone will be enabled.

In addition to the warning tone, a warning light output is available for a panel mounted light as well as a Test Switch input. The IG D II not only provides a second warning tone to the gear horn, it will still function should the gear horn fail, providing an added safety feature.

Features:
- Small size: 3.2”L x 2.3”W x 1.0”H
- Adjustable Tone Level
- Input triggering for Throttle switch or Landing Gear and Flap Lights or Switches
- Remote Test Switch Option
- Remote Warning Light
- DC voltage range 12 to 28 VDC
- Weight, 10 oz
- Two Year Warranty
- Not connected to older analog Nav radios

The Voyager comes IDENTICAL in PRICE and FUNCTION to the Odyssey. The only difference is the size.

The Voyager is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Like the Enigma, the Odyssey/Voyager is a hardware and software concept that promotes a flexible, powerful EFIS platform together with a software application system that is highly user-modifiable.

As an EFIS hardware platform, the Voyager provides state of the art multi-processor based processing utilizing components chosen for absolute robustness in radiation intense environments such as found at high altitudes. This is coupled with intense low power design methods to further maximize overall system application and reliability.

The large amount of flexibility built into the base system allows the adaptation of the Voyager to almost any mission and aircraft. Due to low system cost, the Voyager is equally suited to very light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by even turbine- or twin-engine aircraft with full dual engine monitoring.

The Voyager shares all software features with the Enigma, but differs in the following ways:
- Larger screen 8.4 diagonal
- High resolution full VGA active TFT display - one of the best we have found
- Faster processor for future functionality
- 2 user-configurable rotary knobs and 7 function keys
- ARINC 429 interface for communication with traffic alert systems TIS and AON XRX and for communicating with high-end digital autopilots GPS Steer and Vertical Nav
- CAN automotive bus for reading the EC of automotive engine conversions
- Analog I-150mA NAV inputs to display CDI/LOC/IGS when connected to older analog NAV radios

Low...
- 8.4 Perfect...
The Enigma is a comprehensive flight, engine and navigation instrument designed for E perimental and Light Sport aircraft. Like the Enigma, the Odyssey is a hardware and software concept that promotes a fl eible, powerful EFIS platform together with a software application system that is highly user-modifiable. As an EFIS hardware platform, the Odyssey provides state of the art multi-processor based processing utilizing components chosen for absolute robustness in radiation intense environments such as found at high altitudes. This is coupled with intense low power design methods to further ma imize overall system application and reliability. The large amount of fl eible built into the base system allows the adaptation of the Enigma to almost any mission and aircraft. Due to low system cost, the Odyssey is equally suited to very light aircraft, gliders and rotorcraft, while providing enough fl eible to be utilized by even twin-engine aircraft with full dual engine monitoring. Please note Select R AC model and engine sensors for AHRS functions.

### MGL AVIONICS ODYSSEY - EFIS/EMS/NAVIGATOR

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### STRATOMASTER ENIGMA EFIS WITH GPS AND ANTENNA

The Enigma is a comprehensive flight, engine and navigation instrument designed for E perimental and Light Sport aircraft. The Enigma is a hardware and software concept that promotes a fl eible, powerful EFIS platform together with a software application system that is highly user-modifiable. As an EFIS hardware platform, the Enigma provides state of the art multi-processor based processing utilizing components chosen for absolute robustness in radiation intense environments such as found at high altitudes. This is coupled with intense low power design methods to further ma imize overall system application and reliability. The large amount of fl eible built into the base system allows the adaptation of the Enigma to almost any mission and aircraft. Due to low system cost, the Odyssey is equally suited to very light aircraft, gliders and rotorcraft, while providing enough fl eible to be utilized by even twin-engine aircraft with full dual engine monitoring. Please note Select R AC model and engine sensors for AHRS functions.

### STRATOMASTER ULTRA HORIZON XL

- **Altitude**: 40 000 ft (12 195 m) calibrated.
- 1ft dynamic resolution.
- Airspeed digital.
- TAS digital.
- Stopwatch.
- Glide and climb ratio to 1/99.
- QNH 960 to 1 060 mb (28.3 - 31.1 Inch of Hg).
- NE 1013 mb quick select.
- 29.9 inches of Hg.
- Time of day, Date for flight log entries.
- Air time since take-off (or lesson time).
- Ambient temperature using external sensor.
- Up to two Fuel level using flow sender or optional level sensor.
- Fuel flow using optional flow sender.
- Current range estimate (range at current speed and fuel burn).
- Fuel bingo estimate (time until tank empty).
- Range calculator using manually entered ground speed.
- Air distance made good.
- Voltage.
- Supply to unit.
- Usual 12V battery.
- VSI +/- 9 990 ft/minute (50.7 meters per second) range.
- Flight log storing up to 200 entries.
- Hobbs meter, presettable to current en gine time.
- Density altimeter.
- Barometer for ambient pressure.
- Aircraft registration number display.
- Maintenance timer.
- Warnings for engine temperature, speed high, speed low, ma imum altitude, low fuel level, etc.
- Alarm output to switch a warning lamp.
- Audio alarm output to drive a panel speaker or low level output for alarm tone in ection into a suitably equipped headset or intercom system.
- Master and slave modes for dual instrument setup.
- Measuring take-off run to 50 ft (15.24 m) above ground level.
- Artificial horizon (requires SP-4).
- Slip indicator (requires SP-4).
- Rate of turn indicator (requires SP-4).
- Compass (requires SP-2).
- Air talk link for connection to PC's and Laptops using optional cable.
- Stratomaster Black Bo flight recorder.
- Stratomaster ltra secondary instrument.
- Key ring flight log download device.
- Compass and A RS sensor packages.

### PARTS LIST - SELECTIONS

#### MGL AVIONICS ATTITUDE/HEADING

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
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### PARTS LIST - V-1 SINGLE

#### SENSORS

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### STRATOMASTER 3.125" VELOCITY SERIES

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<td>Attitude, Encoding - Gillman</td>
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<td>Airspeed Indicator</td>
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<td>ASX-2</td>
<td>Airspeed / Attitude Combo</td>
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<td>AV-2</td>
<td>Attitude / encoding Display Requires A. R. sensor</td>
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<td>EJ-EMS</td>
<td>Engine Monitor for 4-Stroke and 2-Stroke Engines</td>
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<td>FF-3</td>
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<td>GPS-1</td>
<td>GPS Navigator MAXI single octagonal front mount</td>
<td>11-05694</td>
<td></td>
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<tr>
<td>RTC-1</td>
<td>Real Time Clock</td>
<td>11-05696</td>
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<tr>
<td>RV-3</td>
<td>Rev Counter - universal</td>
<td>11-05697</td>
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<tr>
<td>TC-2</td>
<td>Thermocouple Indicator - 4-Channel</td>
<td>11-05698</td>
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<td>TC-1</td>
<td>Thermocouple Indicator - 12-Channel</td>
<td>11-05699</td>
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<tr>
<td>TP-2</td>
<td>Temperature / Pressure Indicator</td>
<td>11-05720</td>
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<tr>
<td>MAP-2</td>
<td>MAP Universal Pressure and R.P. M.</td>
<td>11-05695</td>
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<tr>
<td>RO M-3</td>
<td>Dual Rotor / Engine Tachometer</td>
<td>11-07812</td>
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### STRATOMASTER 2.25" INFINITY SINGLE

<table>
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<tr>
<th>M e</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>ALT-3</td>
<td>Attitude</td>
<td>11-05702</td>
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<td>ALT-4</td>
<td>Attitude Encoder</td>
<td>11-05703</td>
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<td>ASI-1</td>
<td>Airspeed Indicator</td>
<td>11-05704</td>
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<td>ASX-1</td>
<td>Airspeed / Attitude Combo</td>
<td>11-05705</td>
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<tr>
<td>AV-1</td>
<td>Attitude, encoding Display Requires A. R. sensor</td>
<td>11-05719</td>
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<tr>
<td>FF-1</td>
<td>Fuel Level / Fuel Flow</td>
<td>11-05713</td>
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<tr>
<td>GE-1</td>
<td>G- Meter</td>
<td>11-05714</td>
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<tr>
<td>RV-1</td>
<td>Rev Counter - universal</td>
<td>11-05715</td>
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<tr>
<td>TC-1</td>
<td>Thermocouple Indicator - 4-Channel</td>
<td>11-05716</td>
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<td>TP-1</td>
<td>Temperature Pressure Indicator</td>
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<td>B A T-1</td>
<td>Battery Voltage / Current Monitor, includes 50 Amp Shunt</td>
<td>11-05707</td>
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<tr>
<td>EJ-EMS</td>
<td>Engine Monitor and Digital</td>
<td>11-06442</td>
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<tr>
<td>RTC-2</td>
<td>Aviation Real Time Clock</td>
<td>11-06443</td>
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### OTHER MGL PRODUCTS

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<th>Part No.</th>
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<tr>
<td>R DAC VD</td>
<td>4-channel Thermocouples for Turbo Engine</td>
<td>11-05554</td>
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<tr>
<td>R DAC VT</td>
<td>4-channel Thermocouples for Turbo Engine</td>
<td>11-05555</td>
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<tr>
<td>R DAC X-B</td>
<td>12 Channel Thermocouples for Turbo Engine</td>
<td>11-05556</td>
</tr>
<tr>
<td>R DAC X-D</td>
<td>12 Channel Thermocouples and MAP</td>
<td>11-05557</td>
</tr>
<tr>
<td>Attitude Heading Sensors</td>
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<tr>
<td>SP-2</td>
<td>2-advanced Magneto Sensor Compass</td>
<td>11-05557</td>
</tr>
<tr>
<td>SP-4</td>
<td>4-Axis Attitude Sensor Package, includes 50 Amp Shunt</td>
<td>11-05558</td>
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<tr>
<td>SP-5</td>
<td>5-advanced ARS, used with the SP-2 for the gyro heading can be automatically slaved to the magnetic heading</td>
<td>11-06554</td>
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</table>

### EXTREME

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>EFIS / Engine Monitor 4 Total EGTC / T Channels</td>
<td>11-05571</td>
<td></td>
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<tr>
<td>E2 EMS</td>
<td>Comprehensive Engine Monitor 4 Total EGTC / T Channels</td>
<td>11-05577</td>
</tr>
</tbody>
</table>
MOTOCAM CAMERA SYSTEMS

1 CAMERA SHOCKBOX DIGITAL VIDEO RECORDING SYSTEM

Package Contents:
- Sony 550 CCD color camera 1
- 12 foot camera cables 1
- RAM ball and socket camera mounts 1 set
- Stereo audio communication cable 1
- 4Gb SD memory card 1
- Video Editing Software 1
- TV PC video transfer cables 2
- Charger 1
PN 11-07109

1 CAMERA SHOCKBOX HELMET CAMERA DIGITAL VIDEO RECORDING SYSTEM

Packaging Contents:
- Sony 550 CCD color camera 1
- Retractable helmet mount 1 set
- 12 foot camera cables 1
- Stereo audio communication cable 1
- 4Gb SD memory card 1
- Video Editing Software 1
- TV PC video transfer cables 2
- Charger 1
PN 11-07110

2 CAMERA SHOCKBOX DIGITAL VIDEO RECORDING SYSTEM

Package Contents:
- Sony 550 CCD color camera 2
- 12 foot camera cables 2
- RAM ball and socket camera mounts 2 set
- Stereo audio communication cable 1
- 4Gb SD memory card 1
- Video Editing Software 1
- TV PC video transfer cables 2
- Charger 1
PN 11-07111

2 CAMERA SHOCKBOX DIGITAL VIDEO RECORDING SYSTEM

Package Contents:
- Sony 550 CCD color camera 2
- 12 foot camera cables 2
- RAM ball and socket camera mounts 2 set
- Stereo audio communication cable 1
- 4Gb SD memory card 1
- Video Editing Software 1
- TV PC video transfer cables 2
- Charger 1
PN 11-07112

4 CAMERA SHOCKBOX DIGITAL VIDEO RECORDING SYSTEM

Package Contents:
- Sony 550 CCD color camera 4
- 12 foot camera cables 4
- RAM ball and socket camera mounts 4 set
- Stereo audio communication cable 1
- 4Gb SD memory card 1
- Video Editing Software 1
- TV PC video transfer cables 2
- Charger 1
PN 11-07112

DATATOYS XM-DVR PRO DIGITAL RECORDING SYSTEMS

The Plus and Plus 2 systems have everything you need to start recording from one or two of the small and lightweight bullet cameras.† The Plus system offers the highest quality on the market with a recorder, cameras, and cables all designed for harsh environments.

The XM-DVR Pro Digital Video Systems are perfect for aviation applications such as flight training, aerobatic, formation flying, and flight tours, featuring better than DVD quality video with the professional standard MPEG2 compression which records a more vivid and clearer picture than consumer grade MPEG4 technologies. The XM-DVR Pro records in full D1 resolution at up to three times DVD quality.** The XM-DVR Pro accommodates up to two compact flash cards which can then be removed and transferred to your PC making it not only the highest quality solid state digital recorder on the market but the easiest to use.

The XM-DVR Pro records 2 full channels of audio and video. This means you can have two cameras recording simultaneously, creating two separate video files on your compact flash card. It’s like buying two recorders for the price of one used in an anodized aluminum enclosure less than 2 inches high and weighing only 13 ounces, the XM-DVR Pro is compact, durable, and lightweight. The slim size of the XM-DVR Pro also makes it one of the smallest digital recorders on the market. The XM-DVR Pro can be wired directly into the aircraft and can run on a wide range of 10-32VDC.

Includes: XM-DVR Pro Recorder with 2 CF module *IR Remote Control *Main annes 2 Video Inputs 4 Pin female, 2 Audio Inputs 4 Pin male, 1 AV Out 4 Pin male, 1 AV Out 5 Pin male, 1 AV Out 4 Pin male of DC power supply 10-32VDC IN 5VDC 12VDC O T Locking Binder 712 Connector * Belt Top Power Supply AC to 5VDC * SB 2.0 Cable * 1 or 2 x 580 Line Sony ExView AD Bullet Cameras * 1 or 2 x Amplified Omni-directional Microphones * 1 or 2 x Super Clamps or Suction Mounts * 1 or 2 x Stereo audio communication mounts 1 set

Accessories Part No. Price
Single Camera Recording System 11-07201
Dual Camera Recording System 11-07202

REMOTE CAMERA SYSTEMS

- Mounts a traditional camcorder i.e. Sony
- 360 degrees of rotation
- 50 degrees of tilting ability
- Optional stick grip with built in hat switch
- Remote switch control
- Eight - 7lbs
- Dash mounted LCD screen to see what the camera is seeing
- Vibration dampening built into mounting bracket.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>asic Kit - Includes camera mount system with remote switch</td>
<td>11-04318</td>
<td></td>
</tr>
<tr>
<td>elu e Kit - Includes camera mount system with remote switch and LCD screen</td>
<td>11-04319</td>
<td></td>
</tr>
<tr>
<td>2GB SD memory card</td>
<td>11-04320</td>
<td></td>
</tr>
<tr>
<td>Super elu e Kit - Includes camera mount system, built in grip switch, LCD screen</td>
<td>11-04320</td>
<td></td>
</tr>
</tbody>
</table>

Features: * Highest quality digital video recorder on the market * Easy Installation Plug, Record, and Play * Highest Bit Rate on the Market at 10Mbps 16Mbps with firmware upgrade ** 2-3 times DVD and Broadcast quality * Professional grade MPEG2 compression * Optimized 580 Line Sony ExView AD CCD Bullet Cameras provide a clean, vivid picture * Records two full channels * Powered from the aircraft’s electrical system or external battery packs * Durable and lightweight * aterproof IP68 connections * Made in the USA Specifications * Inputs 2 Video, 2 Audio, 1 Video, 1 IR Remote * Outputs 1 AV Out * Resolution Full D1 720 480 30fps NTSC, 720 576 25fps PAL * Bit Rate Selectable 5-10Mbps per channel, firmware upgrade to 16Mbps per channel * Compression MPEG2 Video, MPEG1 Audio * File Type MPEG2 * Memory Type 2 CompactFlash default, and Drive and SSD optional * Software DVR to PC, DVR PC Based * eight 13oz 358g Dimensions 4.5 3.85 1.85 115mm 98mm 47mm * Construction Aluminum * Aspect Ratio 4:3 or 16:9 * Input Dependant * Durable and lightweight * Waterproof IP68 * Records two full channels * Powered from the aircraft’s electrical system or external battery packs * Durable and lightweight * Aterproof IP68 connections * Made in the USA Specifications * Inputs 2 Video, 2 Audio, 1 Video, 1 IR Remote * Outputs 1 AV Out * Resolution Full D1 720 480 30fps NTSC, 720 576 25fps PAL * Bit Rate Selectable 5-10Mbps per channel, firmware upgrade to 16Mbps per channel * Compression MPEG2 Video, MPEG1 Audio * File Type MPEG2 * Memory Type 2 CompactFlash default, and Drive and SSD optional * Software DVR to PC, DVR PC Based * eight 13oz 358g Dimensions 4.5 3.85 1.85 115mm 98mm 47mm * Construction Aluminum * Aspect Ratio 4:3 or 16:9 * Input Dependant * Durable and lightweight * Waterproof IP68 * Records two full channels * Powered from the aircraft’s electrical system or external battery packs * Durable and lightweight * Aterproof IP68 connections * Made in the USA Specifications * Inputs 2 Video, 2 Audio, 1 Video, 1 IR Remote * Outputs 1 AV Out * Resolution Full D1 720 480 30fps NTSC, 720 576 25fps PAL * Bit Rate Selectable 5-10Mbps per channel, firmware upgrade to 16Mbps per channel * Compression MPEG2 Video, MPEG1 Audio * File Type MPEG2 * Memory Type 2 CompactFlash default, and Drive and SSD optional * Software DVR to PC, DVR PC Based * eight 13oz 358g Dimensions 4.5 3.85 1.85 115mm 98mm 47mm * Construction Aluminum * Aspect Ratio 4:3 or 16:9 * Input Dependant * Durable and lightweight * Waterproof IP68 * Records two full channels * Powered from the aircraft’s electrical system or external battery packs * Durable and lightweight * Aterproof IP68 connections * Made in the USA Specifications * Inputs 2 Video, 2 Audio, 1 Video, 1 IR Remote * Outputs 1 AV Out * Resolution Full D1 720 480 30fps NTSC, 720 576 25fps PAL * Bit Rate Selectable 5-10Mbps per channel, firmware upgrade to 16Mbps per channel * Compression MPEG2 Video, MPEG1 Audio * File Type MPEG2 * Memory Type 2 CompactFlash default, and Drive and SSD optional * Software DVR to PC, DVR PC Based * eight 13oz 358g Dimensions 4.5 3.85 1.85 115mm 98mm 47mm * Construction Aluminum * Aspect Ratio 4:3 or 16:9 * Input Dependant * Durable and lightweight * Waterproof IP68
ANTENNAS

ADVANCED AIRCRAFT ELECTRONICS HIGH GAIN AIRCRAFT ANTENNA SYSTEMS

5T is configured to allow the coax cable to be routed flat along the mounting surface of the airframe. This antenna model would be appropriate for a composite aircraft where the antenna would be mounted in the fuselage or fin and the coax would be close to the skin and be attached periodically for strain relief. In either case, the antenna can be used as a retrofit on in service aircraft or in new installations. The 5I series has the BNC connection positioned so that the coax cable would route out and away from the antenna mounting surface. This configuration is offered for antenna installations such as wing tips of fabric aircraft. If the antenna is mounted on the inside of the tip, the coax route is directly inward toward the wing root and the BNC connection is located near the spar to provide support for the cable. Both antennas are identical in their electrical performance. Features: Inside mounting, with composite skins, with fabric covered airframes. Glue or bond to the airframe. Lightweight. Designed for service temperature. No ground plane corrosion. Mount anywhere inside. Maximum range with low VSWR. Model VHF series designed for comm or nav or ELT. Guaranteed against failure for the life of the airframe. Adapts to existing airframes or to in process construction.

COMANT GPS ANTENNAS

GPS antenna kits from Comant enable you to install a low profile aerodynamic GPS antenna to the exterior of your aircraft. These antennas are FAA approved under TSO C129, provide superior GPS signal acquisition, and are resistant to ice build-up in flight. All kits come complete with 10’ of coax cable. Call with Comant Part No. for pricing on the Comant CI401, CI405, CI406, or CI4510 series antenna you require.

CI 401 ANTENNAS

These antennas are designed for aircraft up to 600 knots and feature a rectangular footprint. Available in active or passive models. Eight 0.75’’ 50 ohms.

CI 401 ACTIVE ANTENNAS

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>P/N</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>II Morrow, Precedus, 920</td>
<td>CI-401-3K1C</td>
<td>.</td>
</tr>
<tr>
<td>Magellan w/ detachable antennas except 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Skyforce, and panel GPS requiring 26 dB gain</td>
<td>CI-401-8C</td>
<td>.</td>
</tr>
<tr>
<td>Trimble/Terra all panel GPS 40 dB</td>
<td>CI-401-15C</td>
<td>.</td>
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</tbody>
</table>

CI 401 Passive Antennas limited to 10’ run of RG14 or of RG 8

Magellan w/ detachable antennas incl. 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Micrologic Super Sport all other GPS receivers requiring a passive antenna.

| Antenna Only | CI401-30C | . |
| Bendi King KLX100 only | CI401-32GK2C | . |

COMANT CI 4510 GPS/COM ANTENNAS

The Comant CI-4510 antennas are ideal for use on any GPS/COM dual application and feature upper hemispheric, right hand circular polarized sense pattern 1975 METER.

CI 4510 ACTIVE ANTENNAS

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>P/N</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>II Morrow, Precedus, 920</td>
<td>CI4510-3K1C</td>
<td>.</td>
</tr>
<tr>
<td>Magellan w/ detachable antennas except 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Skyforce, and panel GPS requiring 26 dB gain</td>
<td>CI4510-6KC</td>
<td>.</td>
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<tr>
<td>w/pass thru holes</td>
<td>CI4510-7KC</td>
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<tr>
<td>Bendi King KLX100</td>
<td>CI4510-6K2C or CI4510-7K2C</td>
<td>.</td>
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</tbody>
</table>

CI 4510 PASSIVE ANTENNAS (COMES W/ 10’ COAX.)

Magellan w/ detachable antennas incl. 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Micrologic Super Sport all other GPS receivers requiring a passive antenna.

| Lowrance Eagle, Sport, Airmap | CI4510-32K3C | . |
| Bendi King KLX100 only | CI4510-32GK2C | . |

CI 405 ANTENNAS

These antennas are similar to the CI 401 antenna series but are designed to fit most e 5000A antennas except 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Skyforce, and panel GPS requiring 26 dB gain.

CI 405 ACTIVE ANTENNAS

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>P/N</th>
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<tr>
<td>Trimble Pro, Pro SE, Scout</td>
<td>CI405-3K0C</td>
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<tr>
<td>Magellan w/ detachable antennas except 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Skyforce, and panel GPS requiring 26 dB gain</td>
<td>CI405-8KC</td>
<td>.</td>
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<tr>
<td>Active Antenna Kit</td>
<td>CI405-8KC</td>
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</table>

CI 405 PASSIVE ANTENNAS

Magellan w/ detachable antennas incl. 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Micrologic Super Sport all other GPS receivers requiring a passive antenna.

Lowrance Eagle, Sport, Airmap | CI405-31KC | . |

Bendi King KLX100 only | CI405-32GK2C | . |

CI 406 ANTENNAS

Internal mount type for installation under composite materials except graphite. Footprint is an inverted ARINC rectangular shape. Can be used in pressurized and non-pressurized applications.

CI 406 ACTIVE ANTENNAS

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>P/N</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Trimble Flightmate Pro, Pro SE, Scout</td>
<td>CI406-3KC</td>
<td>.</td>
</tr>
<tr>
<td>II Morrow, Precedus, 920</td>
<td>CI406-3K1C</td>
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</tr>
<tr>
<td>Magellan w/ detachable antennas except 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Skyforce, and panel GPS requiring 26 dB gain</td>
<td>CI406-8KC</td>
<td>.</td>
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<tr>
<td>Active Antenna Kit</td>
<td>CI406-8KC</td>
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</tr>
<tr>
<td>Antenna Only</td>
<td>CI406-8C</td>
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CI 401 PASSIVE ANTENNAS

Magellan w/ detachable antennas incl. 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Micrologic Super Sport all other GPS receivers requiring a passive antenna.

Passive Antenna Kit | CI406-30KC | . |
| Antenna Only | CI406-30C | . |
| Lowrance Eagle, Sport, Airmap | CI406-30K3C | . |
| Bendi King KLX100 only | CI406-32GK2C | . |
**COMANT ANTENNAS**

**COMANT DME/TRANSPONDER ANTENNAS**

**COMANT DME/TRANSPONDER (C1 100 SERIES)** - All Metal Blade DME/Transponder antenna designed and developed for Mach 2 military aircraft. Design is unique in the blade and mounting base is designed as a piece with dielectric material in the airstream. Standard side hole mounting configuration. See Order Options for available connectors.

**OR ER OPTIONS**

<table>
<thead>
<tr>
<th>Connector</th>
<th>M</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>BNC</td>
<td>C100</td>
<td>11-06812</td>
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<tr>
<td>TNC</td>
<td>C100-2</td>
<td>11-06813</td>
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<tr>
<td>N</td>
<td>C100-4</td>
<td>11-06815</td>
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<tr>
<td>N</td>
<td>C100-5</td>
<td>11-06816</td>
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</table>

P/N 11-17970

**CI-101 TRANSPONDER ANTENNA** - Frequencies Covered 1030-1090 MHz. Transponder antenna with top loaded stub monopole. Contact points are made from beryllium copper. Mounts through a single 0.600 diameter mounting hole. P/N 11-06810

**COMANT DME/XPDR (C1-105-6 & C1-105-7)** - Frequencies Covered 550-1600 kHz. Antenna configuration specifically designed for ternal applications using a three hole flange mounting. BNC female connector. P/N 11-06810

**COMANT DME/ TRANSPONDER (C1-105-9)** - Frequency 960-1220 MHz. C101-3-5 DME/ Transponder antenna. Antenna configuration specifically designed for ternal applications using a three hole flange mounting. BNC female connector. P/N 11-06810

**COMANT DME/ TRANSPONDER (C1-105-16)** - Frequency 960-1220 MHz. As designed specifically for the one-well Bendi - King™ KA60. This unit offers the e tended length two stud mounting found on the KA60. Tested to the tougher DO-160D environmental requirements, this antenna offers the best in ruggedness and performance. P/N 11-06810

**COMANT DME/ TRANSPONDER (C1-110-40-30)** - Frequency 960-1220 MHz. BNC male, low profile antenna is designed for business et and commercial high speed aircraft. ith a popular four hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction. P/N 11-06820

**COMANT DME/TRANSPONDER (C1-110-41-30)** - Frequencies Covered 960-1220 MHz. All metal, low profile antenna is designed for business et and commercial high speed aircraft. ith a popular four hole mount and connector with short path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction. P/N 11-06820

**COMANT DME/TRANSPONDER (C1-110-60-30)** - Frequency 960-1220 MHz. BNC male, low profile antenna is designed for business et and commercial high speed aircraft. ith a popular four hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction. P/N 11-06820

**COMANT DME/TRANSPONDER (C1-110-61-30)** - Frequency 960-1220 MHz. All metal, low profile antenna is designed for business et and commercial high speed aircraft. ith a popular four hole mount and connector with short path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction. P/N 11-06820

**COMANT DME/ TRANSPONDER (C1-305)** - Frequency 960-1220. Miniature high speed DME/Transponder - one of the smallest DME/ Transponder antennas available from Comant. Less than 2.75 inches high, featuring a very low-drag frontal profile. Strong, lightweight and easy to mount using four e ternal mounting holes through base. P/N 11-06824

**COMANT DME/ TRANSPONDER (C1-315)** - Frequency 960-1220. Miniature high speed DME/Transponder - one of the smallest DME/ Transponder antennas available from Comant. Less than 2.75 inches high, featuring a very low-drag frontal profile. Strong, lightweight and easy to mount using four e ternal mounting holes through base. P/N 11-06824

**COMANT FM BAND & AM/FM ANTENNAS**

**COMANT AM/ FM RECEIVER (C1-222)** - Frequency 88-108 MHz. z 550-1600 K. Offers a unique low profile design using standard 4 hole mounting used on many V F type receivers. Approved for use in an external molded radome which is impervious to the tough environments typical of the underside of an aircraft. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. P/N 11-00412

**COMANT MAR ER BEACON ANTENNAS**

**CI-102 MARKER BEACON** - Frequency 75 MHz. Approved for use with the modern, high sensitivity marker beacon receivers. Provides 4-hole internal mounting for simple installation. Enclosed in a resin molded radome which is impervious to the tough environments typical of the underside of an aircraft. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. P/N 11-17932

**CI-118 MARKER BEACON** - Frequency 75 MHz. Designed specifically for high-performance aircraft applications. Features aerodynamic design in a lightweight package. Antenna is a low profile blade-type encased in a molded polyurethane shell. Skydrol and rain erosion resistant. P/N 11-06847

**COMANT MARKER BEACON (C1-110-10)** - Frequency 75 MHz. Identical to the CI 118 e cpt the mounting configuration allows for drop-in replacement to the one-well Bendi - King KA 26 Marker Beacon. This Composite design has been tested to the tough DO-160D environmental standards. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. P/N 11-06999

**COMANT MARKER BEACON (C1-110-9)** - Frequency 75 MHz. Designed for external applications using a three hole flange mounting. BNC female connector. P/N 11-06810

**COMANT DATALINK & SATCOM ANTENNAS**

**COMANT VHFDATA LINK (C1-248)** - Dual function single engine aircraft antenna for V F and Narrow Cast datalink from Avidyne. Both normal V F communicat as well as use of Narrowcast datalink. For dual use order Avidyne’s DC50 coupler switch. V F 118-137 M z / Orbcamm 137-150.5 M z P/N 11-07074

**COMANT FIS/DATA LINK (C1-248)** - 136.450 - 136.75 M z. Assures positive FIS performance with the new CI 248-180 FIS Data Link antenna. Designed specifically to bring NEXRAD, METAR, and TAF frequencies to the cockp. P/N 11-07077

**COMANT Iridium (C1-490-1)** - Dual-band passive antenna operates at Iridium™ frequencies, with continuous transmit power from 1616 to 1626 MHz. This antenna can also operate separately as a passive GPS antenna. Iridium™ delivers essential communications services to and from areas where terrestrial communication are not available. P/N 11-07078

**COMANT RADIOPHONE / DME ANTENNAS**

**COMANT DME/ TRANSPONDER (C1-105-20)** - ide band vertically polarized/omnidirectional antenna designed for high performance aircraft over frequencies from 806 to 960 M z. Receive 960-1220 M z. P/N 11-07081
COMANT ANTENNAS

COMANT RADIOPHONE / DME ANTENNAS

**COMANT VHFs (CI-177-20) - 450-470 MHz**: A rugged monopole antenna particularly well-suited for the harsh environments experienced on the underside of an aircraft. Features a standard-hole mounting, die-cast aluminum base radiated in glass laminate housing. P/N 11-06836.

**COMANT VHFs (CI-200) - 450-470 MHz**: Rugged monopole antenna particularly well-suited for the new RTCA DO-160D environmental requirements and offers the 118 to 137 Mz frequency associated with DO-186A MOPS. P/N 11-17991.

**COMANT VHFs (CI-291) - 118-137 MHz**: Frequencies Covered 118-137 Mz. Pgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 Mz frequency associated with DO-186A MOPS. P/N 11-17991.

**COMANT VHFs (CI-292-1)**: Frequencies Covered 118-137 Mz. Pgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 Mz frequency associated with DO-186A MOPS. P/N 11-20002.

**COMANT VHFs (CI-292-2)**: Frequencies Covered 118-137 Mz. Pgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 Mz frequency associated with DO-186A MOPS. P/N 11-06839.

**COMANT VHFs (CI-235)** - Frequency 400-960 MHz UHF blade antenna designed for high performance aircraft over the full range of 400-960 Mz. Features vertically polarized, omni-directional pattern, extremely wide band high efficiency electrical performance and DG for lightning protection. 6 hole mounting.

**COMANT VHFs (CI-308)** - Frequency 800-870 MHz. Stub-type antenna designed for use on low-flying aircraft and helicopters. P/N 11-06843.

**COMANT CI 310-20 RADIOPHONE**: Frequencies Covered 806-960 Mz. Mounts on top of the vertical fin stabilizer offering the four-hole mounting configuration found on many Beech aircraft. Provides glide slope reception capability. Complete set includes a pair 2 of blades, each with a single BNC connector output, two coax interconnect cables and a signal combiner output providing for a single cable run to the avionics installation. P/N 11-06704.

**COMANT CI 310-22 RADIOPHONE ANTENNA**: Frequencies Covered 806-960 Mz. Mounts on top of the vertical fin stabilizer offering the four-hole mounting configuration found on many Beech aircraft. Provides glide slope reception capability. Complete set includes a pair 2 of blades, each with a single BNC connector output, two coax interconnect cables and a signal combiner output providing for a single cable run to the avionics installation. P/N 11-06704.

**COMANT CI 310-22 RADIOPHONE / DME ANTENNAS**

**COMANT CI 108-L**: Frequencies Covered 118-137 Mz. Similar to the CI 109, the CI 108 is smaller in diameter and lighter at only 0.5 pounds. Pgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 Mz frequency associated with DO-186A MOPS. P/N 11-17923.

**COMANT CI 108-P**: Frequencies Covered 118-137 Mz. Designed specifically for mounting on the underside of an aircraft providing e cellent radiation coverage for air-to-ground V; F communications. Benz configuration makes it ideally suited for helicopters in a low wing aircraft. Pgraded to the new RTCA DO-160D environmental requirements and offers 118 to 137 Mz frequency associated with the DO-186A MOPS. P/N 11-17922.

**COMANT CI 108-12**: Frequencies Covered 118-137 Mz. For large tans and medium et aircraft. Only 8.25 inches high. Pgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 Mz frequency associated with DO-186A MOPS. P/N 11-07082.

**COMANT CI 108-12**: Frequencies Covered 118-137 Mz. Similar to the CI 158C-3 with the exception of offering a 4 hole mount instead of a 4-hole mount. Not approved for helicopter installations. P/N 11-17924.
COMANT ANTENNAS

COMANT VOR / LOC / GS ANTENNAS

COMANT GLIDE SLOPE (CI-193) - Frequencies Covered 329-335 M Hz GS For interior mounting for GS reception. P/N 11-05200. P/N 11-06806.

COMANT VOR/LOC/GS (CI-205-3) - Frequencies Covered 108-118 M Hz VOR / LOC 329-335 M Hz GS Detachable elements featuring two integrally molded mounting legs or spacers for increased strength. P/N 11-17926.

COMAND GLIDE SLOPE (CI-212-2) - Frequencies 329-335 M Hz Similar to the CI 212 ezcept provides two output signals for dual glide slope receiver installation without the need for a glide slope coupler. P/N 11-06808.

COMAND VOR/LOC/GS (CI-215) - Frequencies Covered 108-118 M Hz VOR / LOC 329-335 M Hz GS. P/N 11-06809.

COMANT COMDAT GPS ANTENNAS

COMANT ANTENNA (CI-401-220) - Frequency • GPS 1575.42 M Hz / 3 M Hz Contains stable amplifier that offers great performance. Gain performance at 26.5 to 31.5 db minimum. P/N 11-04139.

COMANT GPS (CI-401-221) - GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Operate with 26.5 db panel mount GPS receivers. Certified FAA TSO-C144 for GPS and AAS Gamma Class Gamma 1 eq. Not compliant for GPS AAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems. GPS 1575.42 M Hz / 26.5 db Gain. P/N 11-06785.

COMANT GPS CI 408-20/ ACTIVE - Designed for airborne applications with aircraft speeds up to 600 KTAS. Drop-in replacement for many popular GPS applications. RTCA DO 160-D operating standards including direct effects lightning. GPS 1575.42 M Hz z - 28.0 db Gain. P/N 11-06796.

COMANT ANTENNA (CI-420-220) - Stand-alone GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Designed to operate with Garmin 17.0 db gain. P/N 11-05848.

COMANT GPS (CI-420-221) - Stand-alone GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Designed to operate with Garmin 17.0 db panel mount GPS receivers. Not compatible with most portable GPS receiver systems. GPS 1575.42 M z - 17.0 db Gain. P/N 11-04291.

COMANT COMDAT GPS/XM ANTENNAS

COMANT GPS/XM (CI 420-420) - Frequencies • GPS 1575.42 M Hz / 3 M Hz Contains stable amplifier that offers great performance. Gain performance at 26.5 to 31.5 db minimum. Present very low noise levels at 3.8 dB maximum. Built-in voltage regulator. Not compliant for GPS AAS Class Gamma 1 equ. Not compliant for GPS AAS Class Gamma 2 and 3 applications. The CI 401 replaces the CI 401-420. P/N 11-05853.

COMANT GPS/XM (CI-420-410) - Frequency • 1575.42 M Hz / 118-137 M Hz VHF. Separate connectors for GPS and XM weather Data in a single, combined antenna. Built-in 80dB low pass filter protects both GPS and XM antennas against unwanted VHF interference. 26.5 db GPS amplifier. Gain perform ance at 26.5 to 31.5 db minimum. P/N 11-06796.

COMANT COMDAT VHF/GPS ANTENNAS

COMANT VHF/GPS (CI-2480-200) - Dual function single engine antenna for V/F/GPS. For popular 26.5 db gain GPS panel mount systems. Certified FAA TSO-C144 for GPS and GPS AAS Class Gamma 1 equipment. Not compliant for GPS AAS Class Gamma 2 and 3 applications. V F 118-137 M Hz Gain 118 - 137 M Hz V F. Separate connectors for GPS and V F. GPS is protected from VHF harmonics. Designed for use with Garmin AAS Class Gamma 1 panel mount GPS systems that require 17 db Gain. P/N 11-05850.


COMANT COMDAT VHF/GPS/XM (CI-2680-10) - Frequency • 1575.42 M Hz / 26.5 db Gain. P/N 11-06796.

COMANT COMDAT VHF/GPS/XM (CI-2680-200) - Dual function high speed antenna for twins and light ets. Featuring VHF and GPS in a single antenna. Designed for use with Garmin GPS panel mount receiver units featuring 17.0 db gain. P/N 11-06796.

COMANT COMDAT GPS/XM ANTENNAS

COMANT XM (CI-420-16) - Frequency • 118-137 M Hz VHF / 26.5 db Gain. P/N 11-06796.

COMANT COMATTENUATOR SPLITTERS COUPLERS, & DUPLEXERS


COMANT SP ITER CI- 1.0 UA OR OC GS - 108-118 M Hz 329-335 M Hz. For use with Garmin GNS 300 and similar systems. Splits single coa antenna input into equally proportioned VOR/LOC/GPS outputs. P/N 11-06826.

Cl- 0 ual Or Coupler Allows the simultaneous use of two VOR/LOC/GPS receivers from one VOR antenna. P/N 11-17975.

Cl- 03 ual GS Ipele Or Receivers operation of two glide slope receivers from one glide slope antenna. P/N 11-17977.

Cl- 0 OR GS Triple Or Receivers operation of two NAV one glide slope receiver from 1 VOR/LOC antenna. P/N 11-17977.

Cl- 07 Single Or GS Iple Or Provides the operation of one VOR and one glide slope receiver from one VOR/LOC antenna. P/N 11-17979.

Cl- 0 OR GS Triple Or Receivers operation of two NAV two glide slope receivers from 1 VOR/LOC antenna. P/N 11-03777.

COMANT COUP ER MARKER EACON - Provides the use of two marker beacon receivers from one marker beacon antenna. P/N 11-06852. P/N 11-06827.

Cl- 01 COMANT UP EXER - Designed to provide operation between two transceivers and one antenna. P/N 11-06827.

Cl-11 OR GS uadraple Or Receivers operation of two NAV two glide slope receivers from 1 VOR/LOC antenna. P/N 11-03777.
**DM C63-1/A ANTENNA**
Frequency Range 118-137 Mz The DM C63-Series antennas are VHF communication antennas designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 118-137 Mz for both transmitting and receiving applications. The DM C63-1/A is designed for mounting on top of the fuselage. All DM C63-Series antennas are supplied with a gasket and a doubler plate.

P/N 11-02764

**DM C63-2 ANTENNA**
Designed for high mechanical strength with machine tapered aluminum alloy radiating elements. Vertically polarized antennas cover the frequency range of 118-137 Mz for both transmitting and receiving applications. Low profile beamback radiator element designed for mounting on the bottom of the fuselage. Supplied with a gasket and a doubler plate.

P/N 11-02765

**DM C63-3/A ANTENNA**
VHF communication antenna designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 138-174 Mz for both transmitting and receiving applications. Low profile beamback radiator element designed for mounting on the bottom of the fuselage. Supplied with a gasket and a doubler plate.

P/N 11-02766

**DM C70-1/A TRIM LINE ROD ANTENNA**
Designed for top or bottom installation on high-performance, single, twin and turbo engine fi ed and rotary wing aircraft. These uniquely designed antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. The lightweight profile is unobtrusive, resists icing and offers low drag. Eight 15 Speed Rating 250 mph.

P/N 11-02769

**DM C70-4 ANTENNA**
Designed for top or bottom installation on high-performance, single, twin and turbo engine fi ed and rotary wing aircraft. Vertically polarized antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. The lightweight profile is unobtrusive, resists icing and offers low drag.

P/N 11-02770

**DM N70-2 ANTENNA**
L-band metal blades with extended bandwidth for use with both transponders or distance measuring equipment. Sealed and waterproofed for increased reliability.

P/N 11-02767

**DM N48-1 ANTENNA**
Balanced loop design assures an omnidirectional radiation pattern at the horizon to obtain the maximum signal for standard VOR and area navigation systems installed in lightweight aircraft, medium twins, and helicopters operating up to 250 mph. Dual VOR receiver operation is obtained when the antenna is used with the DM 21-1 dipole ear.

P/N 11-02771

**DORNE & MARGOLIN ANTENNA COUPLERS**
- **M H 1-** Dual Market Beacon or Dual VOR
  - P/N 11-02772

- **M H -1** - Single G/S or Single VOR.
  - P/N 11-02773

- **M H 3-1** - Triple er. Dual VOR Single G/S
  - P/N 11-02774

- **M H -1** - Triple er. Dual VOR Dual G/S
  - P/N 11-02775

- **M H 4-1** - Dipole er. Dual G/S
  - P/N 11-02776

**ANTENNA INSTALLATION TEMPLATES**
Custom designed templates improve the antenna sealing process, making it more precise, efficient and cost-effective. Each Sealing Guide template is custom designed to correspond to an individual antenna. They consist of 2 pieces, one inner part and one outer part. The inner template adheres to the base of the antenna, the outer template is placed on the body of the aircraft surrounding the antenna. The sealant is applied to the gap between the templates. Sealing Guide is unobtrusive, resists icing and offers low drag. The templates are then removed and discarded. The sealant is left to cure, resulting in a clean, precise and smooth seal.

**For use with the following antennas:**

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### R.A. MILLER ANTENNAS

#### ANTENNAS

**VHF COM ANTENNA** - Stainless steel bent whip antenna with insulator and mounting hardware. 118-136 MHz. 1/2 oz. P/N AV-134.

Same antenna as described above but furnished w/ lead of RG58 A/U cable and BNC connector. P/N AV-334.


**VHF "BROAD BAND" ANTENNA** - Rod type. Silver plated braid radiator encapsulated in fiberglass tube with white epoxy finish. Die cast aluminum base. 118-136 MHz. 8 oz. BNC termination. Supplied with weather sealing rubber pad and mounting hardware. P/N AV-529.

**CB ANTENNA** - This general aviation CB communications antenna is uniquely designed w/ center loading coil to permit the antenna to be short for practical operation. It is constructed of a fiberglass rod mounted in an aluminum die cast base. BNC connector. Power rating 5 watts. 27 M z. Final tuning on airplane. 1 oz. P/N AV-568.

**OMNI VOR NAV ANTENNA** - This antenna is constructed of taper-ground high-strength stainless steel to withstand the vibration and wind loads with the stability necessary for reliable operation. The insulators are compression molded bakelite with mounting holes provided and weather sealed. The antenna may be mounted with the V pointed forward or aft. Impedance is 50 ohms when used with the balun. 30 ft. of RG-58 A/U cable supplied. 108-118 MHz. P/N AV-532.

**TRANSPODER ANTENNA** - Chrome plated, phosphor bronze radiating element mounted on Teflon insulator. Ball tip for low noise static discharge. May be installed from the outside. TS0 d. 1030-1090 M z. BNC connector. 1 oz. P/N AV-32.

**MARKER BEACON ANTENNA** - 5 seld type. Centerless ground stainless steel, stainless steel mounting hardware. Lead not supplied. 75 M z. P/N AV-533.

**MARKER BEACON ANTENNA** - Boat Type 7.25 oz. P/N AV-569.

**VHF DIPLEXER COUPLER** - Splits the signal from a single antenna into two NAV receivers eliminating the need for a second antenna. P/N AV-547.

**AV-9** - A broadband DME, L band antenna durably constructed around a Type N low-loss connector. The large diameter radiator of polystyrene-chrome-plated aluminum gives the broad coverage required with this type of antenna. The antenna is easily installed and operates to speeds of up to 250 mph and altitudes up to 50,000 ft. P/N L 11-09800.

**AV-545** - An ADF Sense antenna supplied with Government Approved self-gripping aw's and a stainless steel whip for less drag at higher airspeeds. Supplied with an 8 oz. BNC connector and weather seal. Designed to operate at speeds up to 350 mph and altitudes of 50,000 ft. It has a drag force of 0.9 lbs at 250 mph. This antenna is a direct replacement for Comant model CI-105. P/N AV-74.

**RA MILLER TRANSPONDER/DME ANTENNA (AV-74)** - For transponder or DME application. The antenna housing is constructed of an acrylonitrile-styrene-acrylic ASA shell. The white color allows maximum performance without losses due to color pigments or unseen dirt. The antenna is supplied with cellular neoprene mounting pad and hardware. The antenna is designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.9 lbs at 250 mph. This antenna is a direct replacement for Comant model CI-105. P/N AV-74.

**VHF DIPLEXER SPLITTER** - Splits the signal from a VOR NAV antenna into two NAV receivers and one glide slope receiver. Construction similar to AV-547. Insertion loss in applicable band - ma .1 dB. Separation - min. 38 dB. Filterig - min. 30 dB, average - 40 dB. Connections G-1094. Accepts BNC. 108-118 M z, 329-333 M z. t. 3-1/2 oz. P/N AV-570.

**AV-1** - is a base station antenna for communications with ground vehicles or aircraft. It has heavy-duty construction with 3/8 diameter aluminum radials, a 1 diameter aluminum tube radiator, and is iridite-treated for durability. It mounts easily to a 1 diameter pipe or 1-1/4 O.D. tube with locking set screws. P/N L 11-05996.

**AV-2** - is a high performance vehicular antenna for use on all surface vehicles where communication on the vehicular band is required. Equally easy to install. Supplied with a tapered 17-7P stainless steel whip and spring mount. P/N AV-2.

**AV-3** - is a low profile snap-in mounting quarternwave antenna for use on surface vehicles. It has a solderless cable connection at the antenna and is supplied with 12 feet of cable and PL-529 connector.

**AV-12** - is a VOR receive only antenna which uses a highly efficient technique of mounting the elements directly into a high-impact thermo-setting bakelite core insulator. A 25 ft cable with integral balun is also supplied. P/N AV-12L.

**AV-12L** - VOR receive only antenna. P/N AV-12L.

**QUICKIE ANTENNA KIT** - Simple installation procedure produces a cellent communications antenna. Order additional kit for navigation antenna. P/N L 11-09900.

**ADF ANTENNA KIT** - This ADF Antenna Kit is an economical replacement for the Cessna factory style antenna used on all the smaller Cessna aircraft. This antenna will work on most aircraft c the possess with a moveable tail such as the Mooney. Replacement Kit. P/N L 11-12300.


**AV-6 CABLE ASSEMBLY** - Cable assembly consisting of 50 foot of RG-58/ low loss transmission line, a PL-295 connector at one end and a BNC male connector at the other. Commonly used with the AV-1 and AV-5. P/N L 11-06992.

**AV-741 ANTENNA** - Designed for use with DME/Transponder sets. Constructed from an aluminum casting which is capable of withstanding particle erosion at high speeds. Designed to operate at speeds up to 350 mph and altitudes of 50,000 ft. It has a drag force of 0.35 lb at 250 mph. P/N L 11-06995.

**AV-15 ANTENNA** - Designed to operate at speeds up to 350 mph and altitudes of 50,000 ft. It has a drag force of 0.75 lb at 250 mph. P/N L 11-06993.

**AV-64 ANTENNA** - Marker beacon antenna designed for very low drag. Supplied with cellular neoprene mounting pad and hardware. Designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.22 lbs at 250 mph. P/N L 11-06994.

**AV-530 ANTENNA** - Designed for broadband communications, as a die-cast aluminum base and a tapered stainless steel whip for less drag at higher airspeeds. Supplied with a weather-sealing galvanized steel nut and lock nuts designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 1.65 lb at 250 mph. P/N L 11-06996.
SPORT AIRCRAFT ANTENNAS

**MODEL 1** - This VOR antenna is designed to fit inside larger fiberglass wing tips on metal conductive airplanes such as T-18, RV's and Bonanzas etc. The wing tips must have internal dimensions of at least 11 24 and generally fit better on the bottom surface. The VS R is normally less than 2.0 1 over a frequency band of 108-127 Mhz but could be higher due to installation factors.

Left Side ............... P/N 11-21015-1
Right Side ............... P/N 11-21015-2

**MODEL 1A** - Ing tip Com antenna. Looks the same as Model 1 above and fits the same tips as those above but tuned for the Com band. Offered because of pressure from RV builders. Does not perform as well as Model 2 Com antenna but users report good communications at ranges greater than 50 miles. Should be installed so that the ma i height of the tip is utilized to get the most vertical polarization.

Left Side ............... P/N 11-21016-1
Right Side ............... P/N 11-21016-2

**MODEL 2** - Tail cap Com antenna for metal conductive airplanes installed inside a tail tip fiberglass fairing with internal dimensions of at least 10 high 12 long. VS R is normally less than 2.0 1 over a COM frequency band of 118-136 Mhz.

Left Side ............... P/N 11-21050
Right Side ............... P/N 11-21050-2

**MODEL 3** - Ing tip VOR antenna of same general design as the Model 1 but of a narrower design to fit Mooney tips with internal dimensions of 8 24. VS R less than 2.0 1 over the frequency band of 108 to 118 Mhz.

Left Side ............... P/N 11-21010-1
Right Side ............... P/N 11-21010-2

**MODEL 4** - Ing tip VOR antenna designed for smaller tips than Model 3 and with a 10 degree flare on the top portion and a curled aft portion. VS R less than 2.0 1 over the frequency band of 108 to 118 Mhz.

Left Side ............... P/N 11-21025-1
Right Side ............... P/N 11-21025-2

**STYLE 1 OR 2 ANTENNAS**

NOTE: Ingp antennas come in R and L types. -1 suffix indicates the installation of the antenna on the lower inside surface of the left wingtip or the upper inside surface of the right wingtip. -2 suffix indicates the installation of the antenna on the upper inside surface of the left wingtip or the lower inside surface of the right wingtip.

MIRACLE AIR WHIP ANTENNA

The Miracle Air Whip Antenna features include: • Installs in the nose of you Challenger or similar aircraft in minutes • Groundplane free - a full half-wave dipole so it doesn’t need any ground plane or wires • Pre-tuned for the highest effective radiated power from your transceiver • Mainly omni-directional pattern with slight bias towards your heading • Extended frequency response compared to most whips • Highest quality mil-spec connectors, cable and other materials • Available versions for Comms/VOR ELT COM/VOR P/N 11-03081 ELT P/N 11-03083

STAINLESS VHF ANTENNAS FOR HOMEMADES

These VHF antennas are stainless steel including all hardware. Insulators are made of Delrin, which resists e brome cold and high temperatures and is non-breakable. Antennas are available in straight and 45 or 90 angles. 118 136 m z range, eight 3 oz. Not FAA approved.

Straight ............... P/N 11-04516 ............... 45 .... P/N 11-04517
Transponder .... P/N 11-02759 ............... 90 .... P/N 11-00648

COPPER ANTENNA FOIL TAPE 3/8 INCH

Sed as an antenna ground in composite aircraft. P/N 11-12900

TORROIDS (FERRITE BEADS)

Sed in our quickie antenna kit for composite aircraft. P/N 11-09900

STAINLESS STEEL ADF ANTENNAS

• Replace your rusty antenna • Will never rust • Fits most highlow wing light aircraft • The safest! Ceramic safety insulator • Easy to install • The finest stainless ADF antenna you can buy • Note Not for Mooney aircraft or any aircraft with a movable empennage.

Economy stainless ADF ANT.KIT ............... P/N 11-12300
ADF stainless ANTENNA kit ............... P/N 11-02655

ANTENNAS FOR COMPOSITE AIRCRAFT

**MODEL 5** - This transponder/DME antenna is an etched copper clad epoxy circuit board dipole that is designed to be installed inside non-conductive aircraft without need for the additional installation of a ground plane. The dimensions are 6 7 and it can be instaled in the aft fuselage of wings with the 6 dimension vertical. VS R is less than 1.2 1 over bands of 1032 to 1090 MHz.

P/N 11-21005

**MODEL 6** - This om antenna is designed to be installed on the inside surface of the aft fuselage of composite and wood aircraft. It is a dipole that is folded up to minimize the vertical dimension and requires 12 of fore and aft space and 26.5 vertically. It is designed with flexibility so it can match the internal curvature of the fuselage. The VS R is less than 2 1 across the com frequency band.

P/N 11-21000

**MODELS 7 & 8** - These antennas are essentially the same with the e ception of the overall length and the matching devices with the om antenna being installed vertically and the nav antenna being installed horizontally. VS R is less than 2 1 over their respective frequency bands. The outer ends of these antennas may be swept to +30 to facilitate installation in various aircraft types.

NAV Antenna Model 7 ........ P/N 11-21030
COM Antenna Model 8 ........ P/N 11-21035

AV-GPS ACTIVE GPS ANTENNA

The Ramii model AV-GPS is a permanently mounted eternal aerial antenna designed for use with GPS receivers which provide SDVC on their antenna connector. Most handheld GPS receivers have this provision. It is an active amplified antenna providing an average 26 dB gain over a passive, non-amplified antenna.

P/N 11-17990

ANTENNA COVER PLATE

For those of you who have been removing Loran-C antennas, here is your answer, the Antenna cover plate. It was designed to fit the same footprint as the CI-1215P or similar series antennas. Machined from white PTFE. P/N 11-37994

ANTENNA WIRE

**FLEXIBLE ANTENNA WIRE** - Cotton thread core. 6 7 silicon bronze wire. Per Spec. NAF29720-2. P/N 11-04239 ...

**COAXIAL CABLE - RG-58u** - Tinned copper conductor, solid polyethylene dielectric. Standard cable for radio installations. For a permenal aircraft only. P/N 11-04258 ...

**TYPE RG-400u** - Tinned copper conductor, PVC Type IIA acket. FAA approved for certificated aircraft. P/N 11-09202 ...

**BNC COAXIAL ANTENNA CONNECTORS FOR RG-58u CABLE**

Male ............... P/N 11-03992
Female ............... P/N 11-03993

**BNC COAXIAL ANTENNA CONNECTORS FOR RG-400u CABLE**

Male ............... P/N 11-01802
Female ............... P/N 11-01803

ANTENNA INSULATORS

1 Feed-Thru Insulator for lead-in wire from 6 id antenna. Type 4125. 10-32 threads, 3 length tip to tip, 1/8 casing. P/N 11-10500
2 Strain Insulator for receiver antenna. P/N 463

**WSI WEATHER/SIRIUS RADIO ANTENNA** - Operates with all new SI InFlight capable receivers. The antenna receives Sirius Satellite Radio broadcasts to enable the SI weather service. It was designed specifically to sup- press interference from ground based signals. Its propri- etary design allows for optimum performance while the aircraft is turning. The antenna has been thoroughly tested and meets all of the RTCA DO-160E requirements.

P/N 11-05937

**TELE TRANSPOER ANTENNA** - This monpole transponder/ DME antenna meets the same specifications and is a direct replacement for the CI-101 and AV-27 antennas. It is a dipole. P/N 11-17995
**AVCOMM AC-2EX PORTABLE INTERCOM**

- Ependable, stereo and portable AvComm's new AC-2EX may possibly be the only intercom you will ever need and is a compact unit where 5.1 by 2.5 by .5 inches.
- AC-2EX is designed to produce powerful communications you can depend on.
- The compact design makes it easy to carry in your flight bag. 
- A feature pilots who rent aircraft will especially appreciate.
- Need 4 positions: Simply add the AC-2XM module to accommodate additional passengers.
- **FEATURES:**
  - AvComm's Expandable Portable: 2 to 4 place
  - Rugged compact design
  - Two 9V batteries with quick access or 12-28V DC power
  - 12-28V DC 5.1 by 2.5 by .5 inches • Weight: 4.4 oz

**MULTICOMM AIRCRAFT INTERCOM**

- MultComm is the first complete, full-integrated multifunction intercom, radio-interface and power supply system for ultralights and light-sport aircraft.
- It has unparalleled low-noise operation, rich sound quality and unique operating features, you now - finally - have the cabin sound you always wanted. Includes everything you need to get up-and-running, prewired and plug-and-play.
- MultComm is unique in providing four distinct operating modes to give you independent control over each individual mic's activation for both intercom and radio in a variety of combinations.
- Radio sidetone feeds your transmitted audio back to your headphones, confirming that you are transmitting as expected and allowing you to adjust your speaking level when conversation stops. Although monaural, the music fidelity is still excellent. In most airplanes, you won't notice the lack of stereo separation.
- The MultComm system is still excellent. In most airplanes, you won't notice the lack of stereo separation.
- The MultComm system is still excellent. In most airplanes, you won't notice the lack of stereo separation.
- **Features:**
  - Built-in push-to-talk switch
  - Pilot isolate switch
  - Failsafe feature for pilot in the event of power loss
  - **SPECIFICATIONS:**
    - Dimensions: 2.56 x 2.56 x 6.125” with rear connector
    - Weight: 14.1 oz.
    - Full 3 year factory warranty.

**SMOOTHIE BRICKWALL NOISE FILTER**

- Powers radios, intercoms, music players, and all digital gear
- Eliminates all the electrical noise from your system
- Provides full-regulated power at your choice of voltage (adjustable)
- Protects gear from all forms of power spikes, noise and over-voltage
- Prevents in-flight problems including flaky operation and failures
- Replaces most outboard power adaptors from other manufacturers
- May be used in multi-unit installations

**FLIGHT DATA SYSTEMS AP-60 AUDIO MIXER**

- An Audio Mixer is Required any time there is more than one Audio Source. This unit mixes and amplifies all audio inputs, Mounts behind the instrument panel. 
- **FEATURES:**
  - Communications Radio Audio
  - Navigation Radio Audio
  - Music Audio
  - *EFIS* Audio
  - *Traffic* Audio
  - *Avionics* Audio
  - *Specifications* Audio
  - Audio Input 2.5 X 3.4 X .6

**NAV-DATA 4 PLACE INTERCOM**

- Our Four place intercom is packed with features only found in much more expensive units.
- Eliminates clipped words and shouting.
- Includes individual volume and squelch controls for the pilot and copilot.
- Independent microphone circuits allow individuals who are speaking to be heard, and keep background noises shut out.
- Music can be added to the intercom for in-flight entertainment. Automatic muting when the intercom is active, or intercom and radio.
- **SPECIFICATIONS:**
  - Dimensions: 5.1 by 2.5 by .5 inches • Weight: 10.5 oz.
  - Full 1 year warranty if installed by authorized P.S. Engineering Dealer. Custom wiring harnesses available.

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- **SPECIFICATIONS:**
  - Dimensions: 5.1 by 2.5 by .5 inches • Weight: 10.5 oz.
  - Full 1 year warranty if installed by authorized P.S. Engineering Dealer. Custom wiring harnesses available.
PS ENGINEERING AEROCOM III

The Aerocom III is a 2-place portable stereo intercom with IntelliVo™, a completely automatic VOX squelch. Each headset includes two 4 Ohm speakers for perfect stereo sound, voice-activated squelch, and pilot isolate capability in noisy environments. The Aerocom III includes four Headset and microphone inputs, with a few features found in more expensive intercoms. Features individual power output amplifiers for each headset, true pilot isolate for uninterrupted radio communications, music input with uninterrupted monaural music input, music muting during ICS communications with soft mute, for easy listening entertainment, and PA Engineering's top quality squelch circuit. PM 01 Specifications

- Input power: 11-30VDC
- Current: 0.06 amp
- Intercom power is on, and red during radio transmissions. This feature acts as a mute switch, muting the microphone and headphone inputs when not in use.
- Features a sidetone modification. Made in SA.

PM501 PANEL MOUNTED INTERCOM

Provides the pilot with standard features along with a few features found in more expensive intercoms. Features individual power output amplifiers for each headset, true pilot isolate for uninterrupted radio communications, music input with uninterrupted monaural music input, music muting during ICS communications with soft mute, for easy listening entertainment, and PA Engineering's top quality squelch circuit.

SIGTRONICS SPORT 200/200S INTERCOM

Optimized for the high Noise Environment. Sigtronics panels are designed specifically for Light-Sport and I/O aircraft. Tested at ambient noise levels of up to 120dB, their Sport series intercoms will outperform all other intercoms on the market. Modes of operation, voice activated squelch and push to intercom perfect for open cockpit aircraft, give the Sport 200 intercoms maximum flexibility. The sporty look and feel make them a welcome addition to any aircraft.

SIGTRONICS FACE-PLATE OPTION FOR INTERCOMS

This new faceplate fits the Sigtronics SPA-400, SPA-600 or the SBD-800 voice-activated panel mount intercoms. Designed to adapt these compact units to the standard 2-1/4 instrument hole, the new printed bezel increases mounting flexibility and customer convenience. Made of durable and lightweight ABS plastic.

SIGTRONICS SCI-4 INTERCOM

The SCI-4 from Sigtronics features digital squelch indicator lights and dual squelch controls to control volume and squelch independently for front and back seats, crew/pilot isolate and pre-wired harness for easy installation. The SCI-4 is RFI and EMI immune and meets only 1.25. Includes all hardware and accessories needed for installation. SIGTRONICS SCI-4/6 Intercoms have the same features as SCI-4/6 Intercoms plus music inputs. 5-year warranty. Made in SA.

SUGGESTIONS FOR INTERCOMS

- PM3000 4-Pl. Stereo Intercom w/o digital recorder P/N 11-02557 ...............
- PM 3000 -Pl. Stereo Intercom w/o digital recorder 2-1/4 Mounting plate w/o crew ...................... P/N 11-00394 ...............
- PM 1200 WITH AMP The PM1200 is a 2-place panel mount intercom designed for the loudest of aircraft. If you require audio overload protection or headphone outputs, the PM1200 is perfect. Incorporating IntelliVo™ with our new Active Mic Processor AMP, the PM1200 dynamically reduces noise inadvertently picked up by the Mic. It also supplies up to 120m of headset audio. P/N 11-01671

SUGGESTIONS FOR INTERCOMS

- PM3000 - Pl. Stereo Intercom w/o digital recorder 2-1/4 Mounting plate w/o crew ...................... P/N 11-00394 ...............
- PM3000 4-Pl. Stereo Intercom w/o digital recorder FMA-TSO 4-pl. panel mount intercom, single music input. Installation hardware includes 4 sets of headset acks, a music ack and reversible horizontal and vertical metal mounting plate. ......... P/N 11-00851 ............
- PM3000-4, 6-Place Intercom w/o digital recorder FMA- TSO 6-place panel mount intercom, dual music input. Installation hardware includes 6 sets of headset acks, 2 music acks and reversible horizontal and vertical metal mounting plate. ......... P/N 11-00851 ............
- PM3000 4-Pl. Stereo Intercom w/o digital rec. P/N 11-02556
- PM3000 4-Pl. Stereo Intercom w/o digital rec. P/N 11-02557

PMA4000 PANEL MOUNTED AUDIO PANEL/INTERCOM

Offers the simplicity of IntelliVo™ - automatic intercom squelch. Designed with the kit and homebuilt in mind, the PMA4000 has 2 Com and 2 Nav inputs, along with 4 additional unsquelched inputs. The PMA4000 is a monaural 4-place intercom. A stereo amplifier is included. The copilot volume control can also be remote controlled, for tandem aircraft.

SIGTRONICS BATTERY POWERED PORTABLE INTERCOMS

5-year warranty and a sure-fit for all students, instructors and aircraft renters. All have a music input and audio output for recording lessons and radio communications. Both pilot and co-pilot positions have Partial Music Muting for Intercom and Full Mute for Radio Reception and Pre-Wired Harness for Easy Installation.

SUGGESTIONS FOR INTERCOMS

- SCI-4 4-place......................... P/N 11-00027 ...............
- SCI-4 6-place......................... P/N 11-00042 ...............
- SCI-S6 Stereo 6-place...................... P/N 11-00424 ...............
- SCI-S4 Stereo 4-place...................... P/N 11-00424 .............
**INTERCOMS**

**SIGTRONICS MINIATURE PANEL-MOUNTED INTERCOMS**

The SPA-45S is a 2 or 4 place voice activated intercom with inputs for stereo music. It is a small, compact system that allows it to fit in space critical panels. The SPA-45S uses the industry standard Sigtronics squelch, fast on slow off for hands free communication. The music will full mute during ATC communication and partial mute during intercom communication. Each intercom completely, but also can be powered by the intercom, allowing transmission through the radio. The SPA-45S has now been successfully mated to the leading handhelds as well as panel-mounted Icom, Narco, King and the like. Measuring only 2½ X 2½ X 4 deep, only 2.5 oz, the SPA-45S is ideal for rental aircraft.

**PILOT USA PA200 SERIES INTERCOM**

PA200 is Pilot's Smallest Portable Intercom. A solid VOX intercom offering clear communications. Ad-justable volume control and squelch control allows for easy ad ustment for all ambient noise levels. 2 push-to-talk switches can be used with the intercom allowing transmission through the radio. It is ideal for rental aircraft. PA200TH is also available for motor-sports. FEATURES: -On/Off volume control •Adjustable squelch circuitry •Fail-safe capability •Y-adapter for 2 push-to-talk switches •Powered by one 9V battery (24 hours) •Size: 2.25” x 1.30” x 2.75” •3-year unconditional warranty •Wt: 8 oz. (232 grams)

**PILOT USA PA400 SERIES INTERCOM**

The stereo version PA400ST intercom is a portable design that has been successfully used in general aviation for over 18 years. No other intercom on the market has the features and capabilities of the PA-400ST intercom. This particular series has been recently modified to include a cell phone ack for your safety and convenience. Before using in an aircraft we recommend that you take a rack-ride in your living room and become familiar with all the features of your intercom. A hook-up diagram is included in this guide along with brief description of each function and each control setting.

**FLIGHTCOM IISX PORTABLE INTERCOM**

The IISX is the world’s most popular 2-place, portable intercom. The modular design offers a capability to the base of your need and can be upgraded to 4-place portable with optional SR-4 expansion module. *Au illary inputs and outputs for music or recording flight information. *Low noise Auto Squelch feature allows aircraft power or 9-volt battery Flightcom IISX 2 place includes: - IISX Intercom *Cigarette lighter adapter *Co-pilot transmit cable Flightcom IISX 4 place includes: • All parts in the 2 place • SR-4 expansion module

**FLIGHTCOM 403D PANEL MOUNT STEREO INTERCOM**

This is a 6-place panel mount, voice-activated stereo intercom. This easy to use intercom is designed to fit almost anywhere in the panel. Includes *403MC Intercom *Connector kit *4 place stereo ack kit. *Features 3-position transmit capability •Selective muting and pilot isolate •Autolary input for music or alerts *Rectangular faceplate can be mounted horizontally or vertically •Specifications •Styrofoam of 3.6 oz *Length 2.62 in *Width 2.37 in *Height 1 in *Not TSO D *Power requirement 12-28 VDC *Two-year warranty

**FLIGHTCOM 403C PANEL MOUNT INTERCOM**

The XCOM Intercom is a state-of-the-art, digitally controlled, intercom system suitable for nearly every 2 or 4 place aircraft. The XCOM Intercom features a full VOX Voice Activated intercom with second hand ability, music input with mute ability and the ability to use different branded headphones without compatibility issues. The XCOM Intercom was originally designed for the Micro, Fisher, Ditto and Becker aircraft radio. But it has now been successfully mated to the leading handhelds as well as panel-mounted Icom, Narco, King and the like. Measuring only 1 3/8 X 1 3/8 X 5½ deep, only 3.2 oz, the XCOM Intercom is the perfect intercom for general aviation. The XCOM Intercom features a full VOX Voice Activated intercom with second hand ability, music input with mute ability and the ability to use different branded headphones without compatibility issues. The XCOM Intercom was originally designed for the Micro, Fisher, Ditto and Becker aircraft radio. But it has now been successfully mated to the leading handhelds as well as panel-mounted Icom, Narco, King and the like. Measuring only 1 3/8 X 1 3/8 X 5½ deep, only 3.2 oz, the XCOM Intercom is the perfect intercom for general aviation. The XCOM Intercom features a full VOX Voice Activated intercom with second hand ability, music input with mute ability and the ability to use different branded headphones without compatibility issues.

**COM INTERCOM**

The COM Intercom is designed for the Micro, Fisher, Ditto and Becker aircraft radio. But it has now been successfully mated to the leading handhelds as well as panel-mounted Icom, Narco, King and the like. Measuring only 1 3/8 X 1 3/8 X 5½ deep, only 3.2 oz, the XCOM Intercom is the perfect intercom for general aviation.

**FLIGHTTECH ITC-2004 ENRI 4-PLACE INTERCOM**

4 place portable intercom with pilot isolate capability. Features •Exclusive Electronic Noise Reduction circuits. •Continues Audio, No missed Syllables or chatter. Landing gear, stall and GPS warnings can all be configured for input to the intercom unit so that they are audible through the headsets. Voltage 10-30 VDC 2 yr warranty

---

**AV**

567
FLIGHTTECH ITC-401-ENRI PORTABLE INTERCOM

The ITC-401-ENRI 2-place intercom features the Enhanced Noise Reduction Intercoms circuit in a basic, small package. The intercoms have a common volume control with voice-activated squelch. The intercoms are eliminated. There are no squelch controls to adjust, no automatic squelch circuits that keep changing levels, only one single volume control. ENRI continuously monitors background noise picked up by the headset microphone and eliminates it, even while talking. E cellent for open cockpit aircraft. 9V Battery Power - Pilot/All Switch - Available with cable and standard plugs or ICOM A22, A3 and A4 Cable & Plug - 3 year warranty - 4.25W x 1.5 D. P/N 11-00544

ITC-401-23 - Plugs directly into ICOM A5 23 with out the need for additional cables P/N 11-01005

FLIGHTTECH ITC-2003-ENRI REMOTE PANEL MOUNT INTERCOM

The ITC-2003-ENRI features ENRI technology, a unique design, a small panel control unit and a remote intercom unit. The small control panel consisting of a Volume control and a Pilot/All switch measures only 1 w x 1.3 d x 1.1 h. The second part, the intercom unit is easy to reach location, run cables to the headphone acks, power and a small 1/4 inch conductor cable to the panel control unit. The Electronic Noise Reduction feature is eclusive to FlightTech Intercoms and allows for quiet communications without the background noise common to Voice Operated Squelch controlled intercoms. ENRI monitors the background noise and eliminates it allowing only the headset user's voice to pass. Power 12V or 24V. P/N 11-00172

ITC-2003/P + 2-place panel mount intercom with ENRI P/N 11-02126

FLIGHTTECH MINIVOX PORTABLE INTERCOM

The Minivox two place portable intercom is designed for the student pilot and renter pilot requiring a basic low cost voice operated intercom. Measuring 4 2.5 1.5, the Minivox features adjustable Squelch and Volume controls, on-board Push-To-Talk button and up to 25 hours of operation from a 9V battery. Ease of operation, long battery life and a small size make the new Minivox an ideal entry level intercom, with pilot isolate and push-to-talk switch. Model ATC-2 is a 2-place portable intercom. The ITC-404S-P 2-place portable intercom w/ENRI w/ cables and acks11-00926

FLIGHTTECH ITC-401TC INTERCOM

ITC-401TC is different from the rest of the ITC-401 series in that the Noise Reduction control is located on the front of the intercom, rather than an internal. Set and Forget ad ustment. The ITC-401TC is available in versions with cables and plugs for panel mount as well as handheld radios and they include the following: ITC-401TC, push-to-talk switch, and plugs for panel acks. P/N 11-03201

ITC-401TC-1, Cable and plugs for the ICOM A22, A3, A24, A26, A27 P/N 11-02020

ITC-401TC-23, Cable plug for the ICOM A22, A3 P/N 11-03203

FLIGHTTECH ITC-2001-ENRI 2PLACE PORTABLE STEREO INTERCOM


Descriptio Part No. Price

ITC-404S-P 2-place stereo intercom panel mount: Mount 11-00825

ITC-404S-P 4-place stereo intercom panel mount 11-01005

ITC-404SP 2-place portable intercom w/ENRI w/ cables and acks11-00926

ITC-404SP 4-place stereo intercom panel mount 11-01026

ITC-402P 2-place stereo ATC-4 11-05905

ATC-2P 2-place Intercom mono 11-11812

ATC-2PS 2-place Intercom stereo 11-02216

ATC-4P 4-place Intercom mono 11-11822

ATC-4PS 4-place Intercom mono 11-02216

ATC-6P 6-place Intercom mono 11-01105

ATC-4PS 4-place Intercom stereo 11-11805

ATC-6PS 6-place Intercom stereo 11-11807

ITC-402P/404S-P PANEL MOUNT INTERCOMS WITH ENRI

The ITC-402P/404S-P Enhanced Noise Reduction Intercom is a small, easy-to-install intercom designed for the pilot who flies a two or four place aircraft. Featuring single control volume control operation, the pilot and passenger can enjoy quiet communications on those long cross country trips. The ITC-402P includes a stereo auxillary audio input. To prevent missing ATC communications, the music is muted when either audio from the communication radio is present or there is intercom audio. The new ITC-404P has full aux- illary stereo in and Stereo out, with dual function muting. Features: Electronic Noise Reduction Technology • No Squelch controls or circuits • Size: 2.1" w x 1.2" h x 3.1" d • Single Volume Control Operation • Pilot/All switch Isolation Switch • Pilot and Copilot Push-to-Talk Switch Inputs • Stereo Music Input w/Muting • 12 to 28VDC operation. • Cellular Phone interface, include phone cable. P/N 11-01354

ITC-404SP-4

ITC-404SP-6

SOFTCOMM PORTABLE INTERCOMS

These top quality, economical intercom systems are perfect for any type aircraft, and as portable as available with any standard headset. Features include automatic on/off power, panel controls for volume and gain and a pilot isolate switch. ATC-2P and ATC-4P intercoms have 9V DC portable or panel mountable with pilot and copilot transmit as a standard feature. These intercoms can be used with newer equipment to record instructions or conversations. The new model of the ATC-2 has reduced size and weight, and a front-panel mounted PTT switch. Improved ATC-4 and ATC-6 also have a new dual transmit design. All units have au power power and stereo cable and stereo. P/N 11-02126

ITC-404SP 2-place stereo ATC-4 11-05905

ITC-404SP 4-place stereo ATC-4 11-05810

ITC-404SP 4-place stereo ATC-6 11-05815

SOFTCOMM INTERCOMS FOR ULTRALIGHTS

These Softcomm Intercoms are especially designed to operate with today's transceivers in mind. The ATC 2 models are full featured intercoms with Record-In and Record-Out, a PTT switch mounted in the face plate and a X over port for internal use for aircraft power instead of the 9V battery S. Listen to CB or CD players and AM/FM radios while in flight. Features music M TE circuit, volume control and squelch adjustment. Mounted in a rugged ABS case with a case for 2 batteries, these intercoms are compact and completely portable. P/N 11-02127

ITC-4012A2 Icom IC-72 9V battery, PC cards 11-02127

ITC-4012A2 Icom IC-732 9V battery, PC cards 11-02127

ITC-4012A2 Icom Delco and Kenwood. 9V battery, PC cards 11-02127

ITC-4012A2 Icom CA 22 compact transceiver 11-07710

ITC-2A4 Icom CA 4 low-cost radio 11-07710

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AV INTERCOMS
**BOSE AVIATION HEADSET X**

Enjoy full-spectrum noise reduction, comfortable fit and clearer reception when you fly with the Bose Aviation headset X. Thanks to proprietary TriPort headset technology, this unique combination of benefits is available in one lightweight headset. The redesigned control module and greater usability make the 1 headset choice of many pilots and military personnel even better.

**BOSE® TECHNOLOGY MAKES THE DIFFERENCE**

- Most active noise reduction headsets require large earcups and considerable headband force to muffle aircraft noise. Through 25 years of research, Bose has developed a better solution TriPort headset technology. This patented innovation enables a smaller, more comfortable headset that delivers full-spectrum noise reduction.

Acoustic Noise Cancelling headset technology contributes to this high level of noise reduction. It monitors sound at the ear, identifies unwanted noise and creates an out-of-phase signal to reduce it. Their active equalization circuitry also delivers clean, full sound that improves the intelligibility of radio and intercom audio. In fact, S. Air Force tests with Bose headsets achieved intelligibility scores of 95 at 115db compared to 80 for conventional headsets.

**AT BOSE, A COMFORTABLE FIT IS MISSION CRITICAL**

- E experience the full-spectrum noise reduction, comfort and clearer communication of Aviation headset X. Choose the previous version and even easier to use. Its slim design puts all functions including dual thumbwheel volume controls with toggles at each end. P/N 11-05794.

**LONGER, SMARTER BATTERY LIFE**

- Proprietary AdaptiSense™ headset technology allows at least 40 hours use from us 2 AA batteries. It supplies power as needed, detects when you've stopped wearing the headset and automatically shuts off the active electronics. Plus, the new tri-color indicator provides real-time battery status.

**FOCUS ON YOUR FLIGHT, NOT YOUR HEADSET CONTROLS**

- The redesigned control module is 30 smaller than the previous version and even easier to use. Its slim design puts all functions including dual thumbwheel volume controls within easy reach. The improved boom microphone design enables smoother, more precise adjustments.

**KEY FEATURES:**

- TriPort headset technology Proprietary Bose technology utilizes three small ports in the earcups to produce a rich audio performance that's remarkable for headphones this small. Enjoy cleaner communications from a headset that stays comfortable on long flights.

**Acoustic Noise Cancelling headset technology**

- Only from Bose, this patented technology electronically identifies and reduces unwanted noise, allowing improved intelligibility of radio and intercom audio. The continuous roar of flying is reduced, so your concentration is improved.

- AdaptiSense headset technology Sophisticated electronics monitor current demand and instantaneously adjust the voltage to maintain maximum performance. Smart shutoff detects when you've stopped using the headset for even greater battery life up to 40 hours from us 2 AA batteries. Applies to portable version only.

### BOSE HEADSET X PRICING

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<th>Description</th>
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<td>Port. batt. pk hdst w/helicopter plugs elec mic for commercial/civilian use</td>
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### CABELE ASSEMBLIES & PARTS

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<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Portable Batt. Pk Electret Mic, Straight Cord, Twin Plug</td>
<td>11-01840</td>
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<td>Portable Batt. Pk Electret Mic, Twin Plug, Cord</td>
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<td>11-01842</td>
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<td>Installed Electret Mic, Cord</td>
<td>11-01843</td>
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<td>Portable Batt. Pk Electret Mic, Cord, -174 plug</td>
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<td>Aircraft panel installation kit</td>
<td>11-01847</td>
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<td>Bose replacement earseals</td>
<td>11-01849</td>
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<tr>
<td>Bose Boom Mic indscreen Replacement</td>
<td>11-04643</td>
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<tr>
<td>Bose earband Cushion Kit</td>
<td>11-04645</td>
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</tbody>
</table>

**CLARITY ALOFT HEADSET**

- Designed without any of the traditional boundaries of headset implementation, the Mach1 series of headsets is designed by simplifying the concept of an Aviation headset. Based on new In-the-Ear ITE technologies, utilizing advancements in Ear Plug attenuation and comfort, artisan crafted custom ear molds, and new ultra small speakers and noise-canceling microphones, the Mach1 series weighs less than an ounce, delivers crystal clear audio communication, a stable face-contouring fit, and over-the-ear support features:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Lightspeed Mach 1 Headset</td>
<td>11-03606</td>
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<tr>
<td>Lightspeed Mach 1C Headset (custom soft gel silicone ear plugs as well as the originals)</td>
<td>11-05622</td>
<td></td>
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<tr>
<td>Lightspeed Mach 1S Headset, Includes Custom Ear Molds, Single-sided Solution for the E. euripus  et pol</td>
<td>11-05890</td>
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</table>

**LIGHTSPEED MACH 1 HEADSET**

- The all the features you’ll love from the original with TSO Certification and additional features like Music Input. Equipped with a music input in the volume control box that will accommodate most music devices through a 1/8 inch plug. Adjustment and. Some people prefer a closer fit, an adjustment band is included in your purchase. The adjustment band is a flexible band that slips over the back of the headset frame and tightens with toggles at each end.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
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<tr>
<td>CLARITY ALOFT PRO HEADSET</td>
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<tr>
<td>All the features you’ll love from the original with TSO Certification and additional features like Music Input. Equipped with a music input in the volume control box that will accommodate most music devices through a 1/8 inch plug. Adjustment and. Some people prefer a closer fit, an adjustement band is included in your purchase. The adjustement band is a flexible band that slips over the back of the headset frame and tightens with toggles at each end.</td>
<td>P/N 11-05794</td>
<td></td>
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</tbody>
</table>
LIGHTSPEED HEADSETS

ZULU HEADSET BY LIGHTSPEED

Not just the best headset. Lightspeed has made it the most popular Lightspeed ANR headset. Made with magnesium, stainless steel, and four types of composite plastics, it’s extremely durable and yet weighs just over 13 ounces. Inside the headband is a core of thin, flexible spring steel. Lu urious, soft leather surrounds the wide ear seals made from temperature sensitive foam. Calibrated magnesium sliders adjust ergonomically to accommodate your exact head size with uniform pressure. The vented headpad evenly distributes the weight of the headset. All wiring is fully concealed using patented design features, and the earpads fold flat for easy storage. Bluetooth allows you to connect wirelessly with your cell phone, MP3 player, or other compatible device, richness of ultra FRC audio system. Fortunately, our design team included musicians and audiophiles. Setting a new standard for clarity, fidelity, comfort, and quiet. From the start we intended to set a new standard in clarity and fidelity. Here are just a few of the premium components we insisted on:

- 1-1/2" thick temperature Sensitive Confor-Foam Ear Seals
- Weighs 16 oz.
- Panel Power Option Available
- 5-Year warranty
- Padded Headset Bag, Mic Wind Screen, and Batteries Included
- Thirty-3G ANR Headset..........P/N 11-01614
- Thirty-3G ANR Headset panel powered..........P/N 11-02644

NEW FEATURES:
- **Holster and Clip** All 3G headsets now include a plastic holster and metal clip to help keep the control box positioned on the map pocket, shirt pocket, or other location.
- **A new battery o** Lightspeed has redesigned the 3G battery box to incorporate the following changes: *Mechanical power switch with increased throw and mechanical/audible on/off feedback*, *repositioned battery indicator LED. Moved from under power switch. Re-positioned the Stereo/Mono switch. Relocated to inside the battery compartment* Improved battery saving hardware.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Padded Headset Bag</td>
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<tr>
<td>Padded Headset Bag w/ wind screen</td>
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<td></td>
</tr>
<tr>
<td>Batteries Included</td>
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THIRTY-3G HEADSETS

EATERS • Cell/Satellite Phone Interface • Patented AES™ Auto-Shut Off Powers Down the Active Electronics if System is Left Unattended • Battery Status Indicator • ANR Power for up to 30 Hours on just Two AA Batteries • Auxiliary Audio Interface for Music or Audible Checklist/Warnings • Personal Side-Tone E with Bass and/or Treble Boosting • Dual Volume Controls • Stereo or Mono switchable • Adjustable Gain Pre-amp Allowing for Field Balancing of Mic Sensitivities • Temperature Sensitive Confor-Foam Ear Seals • Weighs Under 12 Ounces • Panel Power Option Available • 5-Year Warranty • Padded Headset Bag, Mic Wind Screen, and Batteries Included

- Thirty-3G ANR Headset Panel Powered.........P/N 11-02644

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Accessories</td>
<td></td>
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</tbody>
</table>

FR SOLO/C HEADSET

- At 28.7 NRR, it is 3dB quieter than the next closest models and 5-7dB better than most on the market. • Lightweight, under 12 oz. • Low profile, padded headband allows for hrs of comfortable wear in constricted cabins. • Cell / satellite phone interface • Closed cell foam padded ear seals. • Padded headset bag, mic wind screen.

P/N 11-02651...

QFR SOLO SSC HEADSET

The quietest, most comfortable passive head set ever offered:
- Cell/satellite phone interface • Patented AES™ Auto-Shut Off powers down the active electronics if system is left unattended • Small in-line battery control box • Battery status indicator • Re-programmable comfort switch • Enhanced audio reproduction for better intelligibility • Dual volume controls, stereo or mono switchable • Adjustable gain pre-amp allowing for field ‘Balancing’ of Mic Sensitivities • Enhanced audio reproduction for better intelligibility • Dual volume controls, stereo or mono switchable • Adjustable gain pre-amp allowing for field ‘Balancing’ of Mic Sensitivities • Reversable boom allowing for left or right side operation • Confor-Foam™ padded ear seals • Soft plush headpad • Helicopter version available • 3-yr warranty. Padded headset bag, mic & screens, batteries included. P/N 11-02650...

QFRXCC ANR HEADSET

- 10-12 dB of Active Cancellation
- 24-26 dB of Passive Attenuation
- Patented AES™ Auto-Shut Off powers down the active electronics if system is left unattended • Small in-line battery control box • Battery status indicator • 2 AA batteries provide 25 hours of operation • Auxiliary audio interface for music or audible checklist/warnings • Dual volume controls, stereo or mono switchable • Adjustable gain pre-amp allowing for field ‘Balancing’ of Mic Sensitivities • Reversable boom allowing for left or right side operation • Confor-Foam™ padded ear seals • Soft plush headpad • Helicopter version available • 3-yr warranty. Padded headset bag, mic & screens, batteries included. P/N 11-02649...

LIGHTSPEED HEADSET ACCESSORIES

3G SERIES ACCESSORIES

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<tr>
<th>Description</th>
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<td>Music Patch Cord</td>
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XL SERIES ACCESSORIES

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QFR & SKYCOM SERIES ACCESSORIES

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HEADSET ACCESSORIES

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<td>Mic Ind Screen</td>
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<td>Dual Headset flight bag</td>
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<tr>
<td>A-144 Ear Seals</td>
<td>11-05787</td>
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SIGTRONICS S-50 AIRCRAFT HEADSET

The S-50 headset protects your hearing switched on or off. This S-50 switched on you hear a safe reduction in low frequency noise. Radio transmissions that are weak and garbled on passive headsets will sound strong and clear with an S-50 headset. Features up to 19 dB of active noise reduction, air foam head pad cushion that virtually eliminates of Spots. Ultra-deep gel ear seals for comfort and ease of use and custom fit boom for perfect mic placement. Sigtronics e clusive Stop-Break Replacement Foam Ear Seals.... P/N 11-04680... .

S-50 FEATURES:
- 2 Sky Pro Headsets
- 1 Skycom 400 Intercom (portable) Package
- Headset Bag
- Push-To-Talk Switch
- P/N 11-11885

S-50 HEADSET ACCESORIES:
- Foam Ear Seals
- Ear Cushions
- Earmuffs
- Earmuffs
- Headset Covers
- Headset Bag
- Intercom Bag
- Push-To-Talk Switch
- P/N 11-04681

See Previous Page For Lightspeed Accessories.
David Clark Series K Helmet

Series K helmet provides the ability to convert all David Clark Over-The-ear style E cept 20-10-100 headsets to a New ENC/elmet K style. The kit and a David Clark headset gives both impact and hearing protection in addition to clear, normal conversation in noisy environments. The Series K elmet Kit consists of a helmet shell with nape pad and a helmet liner. Lightweight, the combined weight of the elmet/earbud assembly is 42 oz.

David Clark Headset Bag

This ballistic Nylon Carry Bag is black on black with the DC logo subtly embroidered in the lower right corner. This bag has been carefully chosen for its simplicity, quality and workmanship and is a fitting complement to any David Clark headset.

DC H20-10X Headsets

Made of lightweight advanced composite materials. Features include: Portable battery power module accepts connector from headset and connector on communication cord to aircraft. Powered by 6 AA batteries, has power on LED, and guarded on/off switch. Dual volume controls let you adjust the level for each ear. Custom comfort headpad suspension system ad usts to your head like a pillow. Gel filled earseals are contoured to your ears. Universal noise boom with removable foam. NRK>220B passive noise reduction rating of 23 dB and weighs only 13.4 oz. Drastically reduces headache, or weight discomfort. Features a certified noise reduction of 23 dB and weighs only 13.4 oz. Drastically reduced headband force, new soft air-flow pillow headpad, fit-foal ear seals, M-7A noise cancelling electret mic, and low profile volume controls with detect settings. 5 year warranty.

Part No. Description Price
20-10-10 elfi ed wing headset ENC with straight, 9ft. cord Snap Lock- uick release connector/battery power module with mating电池 connector and panel mount module with mating battery connector and panel intercom plugs
- 20-10X Elfied wing headset ENC with straight, 9ft. cord Snap Lock- uick release connector and panel mount module with mating headset connector, on/off toggle switch, Connectors/Coil Cord Assembly with mating battery connector and Panel Intercom Plugs
- 20-10XP elfi capot eadset ENC with coiled, 9ft. tended cord, Snap Lock- uick Release Connector and panel mount module with headset connector, on/off toggle switch
- 20-10XP elfi capot eadset ENC with coiled, 9ft. tended cord, Snap Lock- uick Release Connector and panel mount module with headset connector, on/off toggle switch
- 20-10XP elfi capot eadset ENC with coiled, 9ft. tended cord, Snap Lock- uick Release Connector and panel mount module with headset connector, on/off toggle switch
-
Pilots have trusted the green domes of David Clark Company headsets for over 25 years. Their high-performance products are now equipped with several new features to enhance pilot comfort and performance.

**DAVID CLARK H10-66LX & H10-76XL**

Comfort super-soft, double-foam headpads, comfort-gel, undercut ear seals, and a smaller, lighter battery pack with auto shut-off for ENC models. Find out for yourself why quality conscious pilots will accept nothing less than the 1 headset in Aviation.

**10-66XL D AL IMPEDANCE ENC EADSET**

Designed for use with both high and low impedance systems. Select switch on dome matches dynamic noise cancelling system impedance. Ideal for fleet operations. Certified Noise Reduction Rating NRR 27 dB. Built in ENC system technology and enhanced comfort features.

**10-76XL PORTABLE LO IMPEDANCE ENC EADSET**

Feature ENC technology and designed for use with low impedance systems. Coll cord with single plug connects the battery-powered module to aircraft radio or intercom. Additional 17-22 dB noise attenuation when ENC activated.

**10-76XP PANEL-MOUNT LO IMPEDANCE ENC EADSET**

Same as 10-76XL but with permanent panel-mount module for utilizing the aircraft power source.

**H10-20 HEADSET**

8 new headset design advances make the David Clark 10-20 a must see. The completely flexible boom assembly can be adjusted for perfect microphone placement. The M7A microphone is the most advanced noise-cancelling amplified electret microphone available. Features a redesigned air-flow headband with liquid-filled ear seals for optimum comfort. Comes with volume control and a 5 yr warranty. Made in the U.S.

**Straight Cord......P/N 10-20..........................**

**Coiled Cord.......P/N 10-21...........................**

**Elicopter........P/N 10-26...........................**

**DAVID CLARK H10-30 HEADSET**

This dual headset, used by the Air Force, features foam filled ear cushions with an M-1/DC amplified dynamic noise cancelling microphone. 1 ft 6 straight cord, P -0558 headphone plug and P -068 mic plug. P/N 10-30

**DAVID CLARK H10-36 HEADSET**

The 10-36 headset features the M-1/DC dynamic mic and coil cord which e tends to 5 ft, with -174/ plug for helicopter installations.

**DAVID CLARK H10-60 HEADSET**

Features unique foam/air-flow headpad, low-pressure headband, Fl Fo T Gel ear seals, and dual volume controls. Also features the M-7A advanced noise cancelling amplified electret mic. Customize your 10-60 with 3-position headset pressure adjustment, boom guide lock, headband size adjustment, and cord selection. P/N 10-60

**DAVID CLARK H10-66 HEADSET**

The 10-66 headset features the M-101 amplified dynamic microphone and g/h/Low pressure. Comes with coil cord which e tends to 5 ft. -174/ plug for helicopters.

**DAVID CLARK H10-76 HEADSET**


**DAVID CLARK H10-00 “LISTEN ONLY” HEADPHONE**

David Clark comfort fit. For use with handheld mic. 18 coil cord which e tends to 6 ft. P -0558 plug. P/N 10-00

**9V BATTERY PACK FOR ENC HEADSETS**

This new XL-9V 9V battery pack is easier to operate, wear and store. It is 50% smaller and 50% lighter than previous battery packs. It runs off a single 9V alkaline battery to provide power to the headset ENC system. The XL-9V features an Auto Shut Off function to save the battery when the power switch is on, or when the headset is not in use. P/N 11-01783

**DAVID CLARK UNDERCUT COMFORT-GEL EAR SEALS**

Ear Seals have redesigned to be softer, more supple and form fitting, with a unique undercut shape that provides more room for your ear. This unique design makes room for a larger, yet lighter ear seal. This new ear seal is now standard on the entire line of DC aviation headsets. New Ear Seal Features: * 26% lighter * 60% more surface area in contact with your head provides greater comfort * Lower headband pressure * 30% more interior volume creates more room for your ear

P/N 11-01782

**DAVID CLARK GROUND SUPPORT HEADSETS**

Ground Support headsets are designed to facilitate communication when background noise or distance makes it extremely difficult to communicate. During ground-support operations, communication is critical to ensure the safety of everyone in the vicinity as well as the protection of the aircraft from accidental damage.

**MODEL H7010 - Noise Attenuating headset * M-101 Noise-Cancelling Microphone * 30-inch straight cord with 174/ plug * Noise-shielded microphone muff with On/Off switch * Soft headpad and ear seals guarantee exceptional comfort * Snap-fastened nylon straps secure microphone muff to mouth * Corrosion-resistant, chrome plated headset/strap assembly * E tremely durable and reliable * NRR 30**

P/N 11-07116

**MODEL H-133C/AIC - Noise Attenuating headset * M-101/AIC Noise-Cancelling Microphone * 30-inch straight cord with 93A/ plug * Noise-shielded microphone muff * Soft headpad and ear seals guarantee exceptional comfort * Snap-fastened nylon straps secure microphone muff to mouth * Corrosion-resistant, chrome plated headset/strap assembly * Extremely durable and reliable * NRR 30**

P/N 11-07117

**EARS 2 CELL PHONE ADAPTER FOR HEADSETS**

Great for Filing Closing Flight Plans, contacting ATC/ FSS or office. Size of the product 2 1/4  2 1/4  2 1/4  thick. Clip is removable for better fit and function. Will Not Interfere with any RADIO CALLS , A TO M TE the Cell call when radio is active, same as for the M/F5 player. Uses a 9 volt battery for amplified operation, which has a battery life of 18 mo stand-by 25 hrs talk time. If your intercom or radio system fails you can still talk through your headset or even hook a handheld radio through your headset. One year limited warranty on defective parts. P/N 11-01781

**CELL PHONE HEADSET ADAPTERS**

Our cell phone headset adapters connect your cell phone to the headset and intercom system in your aircraft. The pilot can use the cell phone while ATC communications remain the priority at all times. These adapters enable you to close flight plans or get IFR clearances from the aircraft, contact FBO’s or other services from the aircraft, or call anyone you wish. Will not work with Nokia 8000 series phones. Universal adapter............P/N 11-02230

Bose adapter.....................P/N 11-02231

Elicopter adapter...............P/N 11-02232

**AMP CABLE (AUDIO+MIC+POWER)**

A standard ANR upgrade kit comes with a 6 ft long addon wires, audio wires and mic wires all in 1 cable. The result is a cable replaces your original cable and has the DC power wires, audio wires and microphone all in 1 cable. The result is more esthetically pleasing and no additional hole is required in the left earcup.

P/N 11-03012
Sennheiser developed a full line of innovative headsets in response to the aviation industry's concern about clear communications and prevention of hearing loss and fatigue. Most headsets comply with FAA/ETSO/TSO approval C57a and C58a. All headsets have a 5yr warranty unless noted.

**HME43-K PILOTS HEADSET**
The MEC 43-K is a pilots headset with closed headphones and Ultra Noise Cancelling Microphone for use in Business Jets. Features: • Very lightweight •Ultra Noise Cancelling. Microphone allows for superior speech transmission •Microphone can be worn on either left or right-hand side •Headset with comfort leatherette and replaceable ear pads •Double-sided adjustable headband with comfort headpads •Superb wearing comfort due to patented two-piece automatic headband and soft ear pads •Flip-away headphone allows single-sided listening •Flexible microphone boom, collapsible cushioned headband, mono/stereo switch * Foldable, space-saving design * Very lightweight 10.1oz * Long wearing comfort due to commingling soft ear seals * Fe-like boom * Noise-compensating condenser microphone *3-year warranty ............................................ P/N 11-07030

**HME25KA-2 PASSIVE HEADSET**
Designed for comfort clarity in the loud aviation environment, the ME 25KA-2 pairs a lightweight, split-headband headphone with a noise-compensating, electret mic. The ultra lightweight, closed-back, supra-aural design provides 16dB of passive attenuation. An active electronic noise cancelling ANC option is available. The MEC 25ka-2 is a supra-aural, closed back headset that weighs less than 6 oz and has a split headband design for unsurpassed comfort and fit. Wt: 6 oz, electret mic. ANC power, 2 AA batteries, 6 ft. cord. * FAA and ART TSO approval C57a and C58a. * Sennheiser ME25KA-2 passive noise attenuation. The microphone boom can be turned 180 degrees to provide over 30 dB of total noise attenuation. The MEC 25-KA is a supra-aural, closed back headset that weighs less than 6 oz and has a split headband design for unsurpassed comfort and fit. Wt: 6 oz., electret mic. ANC power, 2 AA batteries, 6 ft. cord. * FAA and ART TSO approval C57a and C58a. * Sennheiser ME25KA-2 passive noise attenuation. The microphone boom can be turned 180 degrees to provide over 30 dB of total noise attenuation. The MEC 25-46 is a pilot’s headset featuring the latest in noise cancellation technology and designed specifically for pilots of corporate and general aviation aircraft. **Sennheiser ME46-K earset**-

**HME64PASSIVE / HME46 ANC**
These boomsets successfully combine proven functionality with the latest audio technology and make innumerable user complaints. The ME 46 incorporates peak level protection. It delivers reliable protection from cussive volume peaks of over 110 dB during radio communication. The new boomsets are available with all common plug configurations. Features: •Extremely light weight •Superb wearing comfort due to patented two-piece automatic headband and soft ear pads. Flip-away headphone allows single-sided listening •Flexible microphone boom, can be worn on either left or right-hand side •Noise-compensated condenser microphone ensures excellent speech transmission •Single-sided cable, length 1.85 m, easy to exchange •With volume control for the cockpit or for air traffic control communication 4.9oz 6 ft. cord. Now TSO d. P/N 11-09790

**HMEC350 ANC HEADSET**
For those who work or play in a loud cockpit and would like a low-profile, lightweight headset with outstanding noise reduction, the MEC 25-KA is the answer. Active noise cancelling by over 15db to provide over 30 db of total noise attenuation. The ME 25-KA is a supra-aural, closed back headset that weighs less than 6 oz and has a split headband design for unsurpassed comfort and fit. Wt: 6 oz., electret mic. ANC power, 2 AA batteries, 6 ft. cord. * FAA and ART TSO approval C57a and C58a. * Sennheiser ME25KA-2 passive noise attenuation. The microphone boom can be turned 180 degrees to provide over 30 dB of total noise attenuation. The MEC 25-46 is a pilot’s headset featuring the latest in noise cancellation technology and designed specifically for pilots of corporate and general aviation aircraft. **Sennheiser ME46-K earset**-

**HMEC350 ANC HEADSET**
For those who work or play in a loud cockpit and would like a low-profile, lightweight headset with outstanding noise reduction, the MEC 25-KA is the answer. Active noise cancelling by over 15db to provide over 30 db of total noise attenuation. The ME 25-KA is a supra-aural, closed back headset that weighs less than 6 oz and has a split headband design for unsurpassed comfort and fit. Wt: 6 oz., electret mic. ANC power, 2 AA batteries, 6 ft. cord. * FAA and ART TSO approval C57a and C58a. * Sennheiser ME25KA-2 passive noise attenuation. The microphone boom can be turned 180 degrees to provide over 30 dB of total noise attenuation. The MEC 25-46 is a pilot’s headset featuring the latest in noise cancellation technology and designed specifically for pilots of corporate and general aviation aircraft. **Sennheiser ME46-K earset**-

**PXC450 ANC HEADPHONE**
Outstanding sound quality and undisturbed music enjoyment in noisy environments. The PXC 450 is a premium travel headphone featuring Sennheiser's e-clusive NoiseGard 2.0 active noise compensation system, which effectively reduces up to 90% of ambient noise. The e-remely comfortable headphones offer audiophile grade sound combined with a foldable construction for easy transport and convenient storage. The innovative new TalkThrough function allows the user to communicate with neighbors without taking off the headphones. **Sennheiser ME25-46 ANC HEADSET**

**HMEC460 ANC HEADSET**
Closed ear protector headphones and NoiseGard™ active noise compensation for use in propeller and turbo prop aircraft. Silver brushed surface. Features 7.0 N contact pressure, 30 less than its predecessor. Even includes sockets for multimedia applications A 3.5 mm Audio-in-socket for those who want to connect their MP3 player directly to the headset, and a 2.5 mm CellPhone-In-socket for the mobile phone. Delivery includes 1. MEC 460, 1 carrying case for headphones and microphone  2. 2-conn. cable clip M 26, 1 windshied M 45, 1 audio cable with 2 2.5 mm stereo acks, 1 audio cable with 2 3.5 mm stereo acks, 1 audio cable with 2 3.5 mm stereo acks. *10 EAR ARRANT *

**HME110 PASSIVE HEADSET**
Passive feature offers an e-ellent passive attenuation and a wide frequency response, this closed-back, supra-aural design will make communications clear. Volume control for the headphones. Sensitivity control for the microphone. Flexible, noise-compensated boom mic or separate left and right volume control. A high quality bag is supplied with the unit. Features: •Constant attenuation of up to 40 dB •Advanced transducer design ensures excellent speech intelligibility •Mono/Stereo Switch •Adjustable Gain Mic -10-year warranty ............................................ P/N 11-03589

**Special models for helicopters - with coiled cable** -174/connector for navigation equipment P/N 11-00216

**HME1 0 HELICOPTER MODEL**

**HMEC250 MINI FOLD-UP HEADPHONES WITH ANC**
The ideal travel companion. **PXC 250 fold-out headsets** feature Sennheiser's proprietary NoiseGard™ active noise cancellation. NoiseGard™ will effectively reduce background noise by more than 65% The PXC 250 comes complete with a convenient protective bag for easy transport. **PXC 300 reduces noise up to 80**

**PXC 250** ............................................ P/N 11-01915

**PXC 300** ............................................ P/N 11-04615

**SENNHEISER ACCESSORIES**

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<td>Dual XLR to Cigarette Lighter</td>
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<td>Gel Ear Seals - MEC350/MEC450</td>
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</tbody>
</table>
DRE COMMUNICATIONS HEADSETS

DRE HEADSETS

DRE quality aviation headset. For the past 11 years DRE has been manufacturing high quality aviation headset and intercoms. The new DRE headsets are better than ever.

DRE-1000

- 24 dB NRR hearing protection
- BNC clear near mic
- Dual volume control
- Headset foam ear ear seals
- Cotton cloth ear covers
- Indol mic muf
- 14 oz.
- Available in black or white
- 3 year factory warranty

Additional features include high fidelity headphone drivers for music, thumb pad headband adjusters, stay put locking wire boom, high-fidelity reliable wiring, gold-plated plugs, rugged ABS ear cups, and black plate spring steel headband combined with the best audio components makes the DRE1000 the affordable aviation industry leader.

DRE-1000 white PNR headset pictured . . P/N 11-00709................
DRE-1000 black PNR headset.................. P/N 11-06494 ............

DRE-4000

- 24 dB NRR hearing protection
- Stay put half-fl boom
- BNC clear hear mic
- Dual volume control stereo
- Delu e gel ear seals
- Cotton cloth ear covers
- Indol mic muf
- 8 oz.
- 3 year factory warranty

Custom fit half-fl boom stays where you put it and is completely ad ustable for an act position even on those long flights. quick disconnect main cable for easy storage and hassle free replacement if broken.

Additional features include high fidelity headphone drivers for music, high-fl reliable wiring, gold-plated plugs, and rugged ABS ear cups.

DRE-4000 Stereo headset.............. P/N 11-00711

C.A.T. SYSTEM PILOT EAR MICROPHONE

Does not interfere with eye or sun glasses and weighs only 1 oz., eliminating the Over the ear or Behind the ear Pressure producing a Head Band. The easy Boom Microphone has been eliminated since all of the transmitted and received audio is derived from and delivered to the wearers ears. The Ear Pieces produce a Noise Reduction Rating NRR of 33dB with universal foam ear molds and up to 46dB with custom ear molds. They are connected to the Interface Controller with a lightweight, heavy-duty cable and locking connector. The Controller interfaces directly to most General Aviation Avionics Packages, which include Navigation, communications, Radios and Intercoms. Complete with an individual volume control for the wearers comfort. utilizes a Double Shielded Coil cord with gold plated aviation connectors to eliminate any possible interference when using it in close proximity to a handheld transceiver. eights only 9 ounces and is covered by a Limited Lifetime Replacement warranty. The Ear Pieces and coil cord are covered by a 1-year warranty, TSO pending.

001-AC T Pilot Pro - includes the Controller and Foam Ear molds. P/N 11-00369

001-APT - Remote Velcro Push-to-Talk button for yoke mounting. The button is mounted with Velcro and has a coil cord with a 1/4 Plug and a 206 ack for interfacing into the aircrafts avionics system. P/N 11-00370

001-APHT Push-to-Talk button - Same as above but with 3mm Plug for and- eld Portable Transceiver pictured . P/N 11-00371

DRE 6000 ANR HEADSET

- Powerful ANR performance
- Stay put half-fl boom
- BNC clear hear electret mic
- Dual volume control stereo
- Pillow top headpad
- Delu e gel ear seals
- indol mic muf
- Auto shut-off battery pack
- Av ailary power inputACK
- 20-hour battery life
- 16.5 oz.
- 3 year warranty

The most powerful ANR active noise reduction aviation headset available. Not an add-on kit, but also a headset designed for true ANR performance. The DRE6000 has ear cups with internal baffle plate providing the strongest ANR in the industry. 18-20dB of noise reduction 200 z with an effective range from 20 to 600 z, the DRE6000 ANR is guaranteed to exceed the performance of any production ANR headset. hen the noise is ust too much, simply flip the switch and enjoy the flight. Custom fit half-fl boom stays where you put it and is completely ad ustable for an act position even on those long flights. quick disconnect main cable for easy storage and hassle free replacement if broken. Additional features include e trordinary audio fidelity, battery life LED indicator, gold-plated plugs, and high-fl reliable wiring.

P/N 11-00543

DRE ACCESSORIES

GEL SEALS - Add all-day comfort with a pair of Delu e silicone gel ear seals with the industry s first double bump design to keep the gel in place. Other gel seals tend to squash out over time. Delu e gel seal will block out noise for increased noise reduction. Fits DRE and other top brand general aviation headsets.

P/N 11-06496

PILLOW TOP HEADPAD - En oy your flight with Pillow Top headpad. 100 sheepskin eliminates the pressure on the top of the head. Made to fit all general aviation, over-the-head headsets with 5/8 headbands.

P/N 11-06495

FOAM EAR SEALS - Fits DRE and other top brand general aviation headsets.

P/N 11-07366

CLOTH EAR COVERS - Great for comfort and hygiene The cool cotton comfort improves the tactile quality of any ear seal. Easy to install, absorbs perspiration, and completely washable. These covers fit all general aviation headsets.

P/N 11-07397

MIC MUFF - This muff attaches easily, includes the o-ring retainer, improves transmission while eliminating wind noise, and protects the mic from moisture and dust. It is completely washable and fits all general aviation headset microphones.

P/N 11-06497

MAIN HEADSET CABLE FOR DRE4000, D400 - quick disconnect main cable for easy storage and hassle-free replacement, plus high-fl reliable wiring.

P/N 11-06498

MAIN HEADSET CABLE FOR DRE6000, D407 - quick disconnect main cable for easy storage and hassle-free replacement, plus high-fl reliable wiring.

P/N 11-06499

ELECTRET MICROPHONE FOR DRE1000/4000/6000, D502 BNC clear hear electret microphone.

P/N 11-06501

AUTO SHUT-OFF BATTERY BOX FOR DRE 6000, D700 - ill e tend the battery life by automatically turning off after 4 minutes of inactivity. The flashing LED acts as a reminder.

P/N 11-07179

POWER SUPPLY FOR PANEL MOUNT DRE 6000, D800 - For 12V or 24V aircraft. ou can save on batteries by powering the ANR system from aircraft power. as 2 volt-age regulators, a DC-DC converter for isolation, and an in-line 1/4 amp fuse. Specify 12 or 24 volt aircraft when ordering.

P/N 11-07180

DUFFEL STYLE FLIGHT BAG D3002 - Si compartments, dual zippered flap on the center compartment with a Velcro strip. On each side is a zippered pocket, and two smaller acces compartments.

P/N 11-07373

PERSONAL HEADSET BAG, D3001 -

P/N 11-07784

575
BEYERDYNAMIC HEADSETS - FLITELITE

BEYERDYNAMIC HS300 AVIATION HEADSET

The perfect combination of quietness, comfort and design. As a headset with closed back construction, the S 300 individual offers perfect noise protection for long and safe flying. An audio boom comes with the headset and it is possible to route the signal from a mobile phone or MP-3 player through this channel. The microphone signal is received in the volume of the music or phone call automatically decreases. Only high-quality materials, designed for a long service life and man imum user comfort, are used for this handcrafted premium headset.

Features
- Noise attenuation of approx. 30 dB
- Audio boom included with an interface for mobile phone / music player two cables included
- Automatic muting of e-tcmsal signals when radio signals come in
- Noise-compensating microphone with adjustable sensitivity can be
- Mono stereo selection switch
- Balanced sound and high reproduction precision for e-cellent intelligibility of speech
- Integrated volume control
- Made in Germany with a five-year warranty
- Rugged construction using spring steel hoop and soft, replaceable head bolster
- Low weight approx. 325 g without cables
- Service-friendly - all parts are easy to replace
- Headset case included

P/N 11-05245

ACCESSORIES

Beyerdynamic S 300/200 Ear Seals......P/N 11-05828

BEYERDYNAMIC HS200 TREND AVIATION HEADSET

In combination with beyerdynamic’s quality requirement and 80 years of experience in electroacoustics, the S 200 Trend ensures comfort and safety when flying. As the S 300 Individual headset, the S 200 Trend is also supplied with a five-year warranty. The headset comes with a practical bag and a volume control. Now pilots who do not want to listen to music or phoning with their headset while flying, can enjoy the features of beyerdynamic’s Aviation headsets. The features:

- Ambient noise attenuation of approx. 20 dB A
- Noise-cancelling microphone with ad ustable gain, which can be worn on the right or left hand side
- Balanced sound with high reproduction precision to ensure e-cellent speech intelligiblity
- Integrated volume control
- Made in Germany with a five-year warranty
- Rugged headband design made of spring steel and replaceable headband pad made of soft leather
- Easy servicing as all parts are replaceable
- Supplied with headset bag

with padded bag

P/N 11-07260

FLIGHT LITE GEN II DUAL SENSOR PILOT LIGHT

FLITELITE GEN II Dual Sensor Pilot Light. The New GEN II is 30% smaller, and more efficient than GEN One. The new version was developed to meet MIL-STD-3309, for Night Vision Imaging Systems NVIS / airborne utility and utility lighting. This light is also perfect for the General Aviation Cockpit. FLITELITE comes complete with * GEN II FLITELITE unit, computer controlled, dual sensor pilot light * headset or helmet Adapter new adapters are free * AAA Battery Pack * Optional Coin Cell Pack * Attachment accessories * AAA Batteries * warranty

P/N 11-07035

AVCOMM AC-900 FL HEADSET

E clusive patented PNR™ passive noise reduction technology. Key Features
- Patented PNR™ audio technology and full spectrum stereo response
- Intra-late Neodymium speakers M65 microphone
- With active filtering chip Full file boom Built-in push-to-talk.
- Mono-stereo switch built into the cord Each ear cup features an independent volume control Delu e gel ear seals Full five-year warranty. Gold plated mic and headphone plugs P/N 11-06077

AVCOMM AC-890 FL HEADSET - No battery pack required

Installed cell phone port. Built with AVCOMM e's clusive patented PNR™ passive noise reduction technology.
- Key Features Intercom Powered FLITELITE Patented PNR™ audio technology and full spectrum stereo response, Intra-late Neodymium speakers, M65 microphone with active filtering chip Full file boom Built-in push-to-talk Built-in cell phone port with phone cable Mono-stereo switch built into the cord Each ear cup features an independent volume control Delu e comfort package, Full five-year warranty. P/N 11-05600
FLIGHTCOM HEADSETS

DENALI ANR HEADSETS

Revolutionary in design, the 13.4 oz. Denali ANR provides radical advances in full spectrum hearing protection. An innovative low-force headband and contoured ear seals, coupled with ergonomically contoured, low profile ear domes, give Denali a sleek, near custom fit feel. Advances in the acoustic performance of the ANR circuitry provide an additional 19 to 21dB of low frequency noise attenuation, above the passive model. With this headset in your hands, let alone wearing it in flight, will make you instantly aware of its outstanding weight, feel and the completeness of its engineering. Smart placement of the volume controls. A solid, elliptical noise-canceling mic with large, sweet spot for improved communications ANR drop and go 9 volt battery. No battery leads to attach in flight. Made in USA. Available in 3 yellow, graphite blue.

Battery power yellow .......................... P/N 11-00008

DENALI PASSIVE HEADSETS*

Denali elicopter earset yellow .............. P/N 11-00011

Denali elicopter earset blue ................ P/N 11-01075

DENALI HELICOPTER HEADSETS*

Denali elicopter earset yellow .............. P/N 11-01074

Denali elicopter earset blue ................ P/N 11-01075

DENALI HELICOPTER HEADSETS*

DENALI PASSIVE HEADSETS*

Denali elicopter earset yellow .............. P/N 11-00011

Denali Passive earset yellow ................ P/N 11-00012

DENALI HELICOPTER HEADSETS*

Denali elicopter earset yellow .............. P/N 11-01074

Denali elicopter earset blue ................ P/N 11-01075

CLASSIC ANR HEADSET

Flightcom’s Classic ANR earset is built with comfort features not found in similar headsets. Its low-force foam ear seals and large than normal headband, the classic aviation style provides e tended comfort and performance. Comfort Classic ANR SN 50  Foam ear seals, and a wide polar fleece headpad ensure comfort. Innovation A volume control on each dome allows for independent ad ustment. Noise reduction so keep it quiet with our advanced hearing protection technology. Foam ear seals effectively block out sound. Noise reduction rate is 22dB at certain key low frequencies. Comes with a durable nylon carry case.

• Precision flex boom with noise canceling electret microphone
• Chrome headband with a washable polar-fleece headpad
• Mic muff and carrying case included
• Provides an additional 14-18dB noise attenuation at low frequencies

Weight: 17.9 oz.

Dual-volume controls allow for independent adjustment in each ear dome. 3-year warranty

P/N 11-01326

FLIGHTCOM 5DX CLASSIC

This headset provides supreme comfort and fit through its washable polar-fleece headpad, silicone gel ear seals and cloth ear seal covers. Features include noise cancelling electret microphone, precision flex boom, dual volume controls, stereo/mono switch, 22dB noise reduction rating and all top quality components.

5DX elicopter Ver........................................ P/N 11-08760

3-year factory warranty

FLIGHTCOM 4DLX CLASSIC

This headset combines the proven performance and affordability of the popular 4DX Classic headset with the comfort of the air pillow headpad. Features of the 4DLX Classic include combined foam and liquid ear seals, precision flex boom, noise cancelling electret microphone, stereo/mono switch, cloth ear seal covers, mic cover and a 3-year factory warranty.

4DLX elicopter Ver............................ P/N 11-01079

FLIGHTCOM F20 LIGHTWEIGHT HEADSET

The lightest weight headset available from Flightcom and replaces old model 4.2. The F20 has a new, durable construction and updated appearance along with new features such as a volume control and an improved flexable boom. Also included is a set of 30dB ear plugs to help you noise attenuation along with the comfort of a lightweight headset. The F20 has stereo/mono capability, a noise canceling electret mic, weighs only 4.6 oz. and includes a mic muff.

P/N 11-17110

FLIGHTCOM HEADSET BAG

Padded nylon headset bag with 2 chart-size mesh pocket

P/N 11-07371

FLIGHTCOM HYGIENE KIT

Denali hygiene Kit – Ear seals, headpad and mic muff.

P/N 11-04855

FLIGHTCOM A9 MIC

The A9 is the first and only microphone which eliminates distortion and background noise. It eliminates garbling and provides enhanced voice clarity. The A9 is the standard microphone for Flightcom headsets with wire articulated booms and can be used as a replacement microphone for virtual all headsets with wire boom.

P/N 11-08765

FLIGHTCOM COMBO PACKAGES

These combination packages offer extra savings as well as a pre-packaged set which includes two headsets, an intercom and a push to talk switch.

Ask for quote on any unlisted headset intercom combo.

<table>
<thead>
<tr>
<th>Combo</th>
<th>Description (Combo includes)</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
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<td>2 Flightcom 4DX hdsts, 1 ISSX 2 pl. intercom 1 P-T-T switch</td>
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</tbody>
</table>

FLIGHTCOM F20 LIGHTWEIGHT HEADSET

P/N 11-07371

FLIGHTCOM LEATHER EAR SEALS

103-0019-10 Protein Leather Ear Seals. Fits all Denali headsets.

P/N 11-05947

FLIGHTCOM HEADSET BAG

P/N 11-07371

FLIGHTCOM A9 MIC

P/N 11-08765
TELEX HEADPHONES

TELEX STRATUS 30

Along with 30 db of total noise reduction, the Stratus 30 headset offers comfort, durability and performance at a very affordable price. Designed as an entry-level ANR headset, the Stratus 30 combines superior ANR protection, a noise-canceling electret microphone, and fully adjustable boom to ensure a comfortable fit for any wearer. Detentable ComfortCam™ technology allows you to quickly and easily control the tension of the ear cups for clamp-free flying. Comfort is enhanced by its low profile headband that provides even distribution of weight on the head without pressure points and detented sliders that adjust the headband for a custom fit. You don’t need to sacrifice comfort for durability. The Stratus 30 utilizes impact-resistant headband design with stainless steel reinforced stress points for durability and light weight. FEATURES: • Total Noise Reduction• Customize Your Headset for a Comfortable Fit • Cell Phone/Audio Adapter • Advanced Microphone Technology • Low-profile Adjustable Headband • Impact-Resistant Headband Design • Seal Out Sound. Seal In Comfort. • Total Control Means Superior Sound • Boom Microphone • Flight Bag • Weight: 14.2 oz/403 grams. • Runs on 2 AA batteries

P/N 11-04562 ........................................

AC/DC 30XT Adapter........................P/N 11-04567 ..........

TELEX 30XT

The new Stratus 30XT power management system allows you to power the headset from the aircraft panel, standard alkaline batteries, or rechargeable batteries. The Stratus 30XT offers a built-in battery charger that recharges when plugged into a wall socket, the aircraft’s panel power or even your car’s 12-volt power outlet. The Stratus 30XT automatically senses the type of battery you’ve inserted so you can’t make a mistake. The e-clusive microprocessor-control battery management system ensures more than 50 hours of battery life - one of the longest on the market. Customize your headset for a comfortable fit. Tele’s patented ComfortCam™ system allows you to fine tune headband tension to eliminate clamping. Comfort is enhanced by a unique headband construction that distributes weight evenly for a perfect fit, plus thick foam headband pad and newly designed, more comfortable cushions. Audio device management made simple. Also included is Tele’s innovative cell phone/MP3 adapter which allows you to attach both your cell phone and MP3 player at the same time - no more switching cords. Plus you can mute both.

FEATURES: • Total Noise Reduction• Customize Your Headset for a Comfortable Fit • Cell Phone/Audio Adapter • Advanced Microphone Technology • Low-profile Adjustable Headband • Impact-Resistant Headband Design • Seal Out Sound. Seal In Comfort. • Total Control Means Superior Sound • Boom Microphone • Flight Bag • Weight: 14.2 oz/403 grams. • Runs on 2 AA batteries

P/N 11-09600 ...........................................

TELEX ECHELON 20 AVIATION HEADSET

Designed for students, new pilots, and value-conscious eperiened fliers, the Tele Echelon™ 20 full cushion aviation headset offers comfort, a cellent hearing protection and value. The Echelon 20 provides an impressive 20 db of passive noise protection and a top-quality noise canceling electret microphone for clear, reliable communications. The Echelon 20 features a low-profile headband for even weight distribution plus a noise-canceling electret microphone. A three-click tension adjustment system for a custom fit. Special earpieces with high performance ear seals are designed to conform to the ears of even the largest wearers. Add a new comfort for durability.

P/N 11-04564 ........................................

STRATUS™ 50-DIGITAL ANR HEADSET

The Stratus™ 50-D cuts noise 3 ways by providing the Tele Airman ANR 850 features actie noise cancellation. Noise reduction technology to provide up to 12db of noise attenuation ensuring the clearest in-flight communications. Never before has a headset been so comfortable weighing less than 4 oz. Combining set and forget volume control with newer battery packs and panel power. By drastically reducing wind noise in et cockpits, the Airman ANR 850 helps to reduce fatigue. The Tele Airman ANR 850 is unsurpassed in clarity, comfort and convenience.

P/N 11-01889 ...........................................

TELEX AIRMAN ANR 850

Tele Airman ANR 850 uses actie intercom noise reduction technology to provide up to 12db of noise attenuation ensuring the clearest in-flight communications. Never before has a headset been so comfortable weighing less than 4 oz. The Tele Airman ANR 850 offers a built-in battery pack and Newly designed, more comfortable cushions. Audio device management made simple. Also included is Tele’s innovative cell phone/MP3 adapter which allows you to attach both your cell phone and MP3 player at the same time - no more switching cords. Plus you can mute both.

FEATURES: • Total Noise Reduction• Customize Your Headset for a Comfortable Fit • Cell Phone/Audio Adapter • Advanced Microphone Technology • Low-profile Adjustable Headband • Impact-Resistant Headband Design • Seal Out Sound. Seal In Comfort. • Total Control Means Superior Sound • Boom Microphone • Flight Bag • Weight: 14.2 oz/403 grams. • Runs on 2 AA batteries

P/N 11-04562 ........................................

AC/DC 30XT Adapter........................P/N 11-04567 ..........

P/N 11-09300........................

Tele 850 Leather Ear Seals...........................P/N 11-04332 ................

TELEX PRO III 5X5 HEADSET

This headset from Tele features a single side soft ear tip receiver with superior noise cancelling amplifier. The electret microphone for clear, reliable communications. The Echelon 20 features a low-profile headband for even weight distribution plus a noise-canceling electret microphone. A three-click tension adjustment system for a custom fit. Special earpieces with high-performance ear seals are designed to conform to the ears of even the largest wearers. Add a new

P/N 11-09600 ........................................

TELEX AIRMAN ANR 850

Tele Airman ANR 850 uses actie noise cancellation amplifiers. The Tele Airman ANR 850 features actie intercom noise reduction technology to provide up to 12db of noise attenuation ensuring the clearest in-flight communications. Never before has a headset been so comfortable weighing less than 4 oz. The Tele Airman ANR 850 offers a built-in battery pack and Newly designed, more comfortable cushions. Audio device management made simple. Also included is Tele’s innovative cell phone/MP3 adapter which allows you to attach both your cell phone and MP3 player at the same time - no more switching cords. Plus you can mute both.

FEATURES: • Total Noise Reduction• Customize Your Headset for a Comfortable Fit • Cell Phone/Audio Adapter • Advanced Microphone Technology • Low-profile Adjustable Headband • Impact-Resistant Headband Design • Seal Out Sound. Seal In Comfort. • Total Control Means Superior Sound • Boom Microphone • Flight Bag • Weight: 14.2 oz/403 grams. • Runs on 2 AA batteries

P/N 11-04562 ........................................

AC/DC 30XT Adapter........................P/N 11-04567 ..........

P/N 11-09300........................

Tele 850 Leather Ear Seals...........................P/N 11-04332 ................

TELE HEADPHONES

TELEX AIRMAN 760 HEADPHONE - A feature-rich lightweight headphone unit designed for use with hand-held microphones. For long term comfort, an adjustable clothing clip removes the cord weight from the head of the user.

P/N 11-09300........................

TELE ACCESSORIES

Cloth comfort covers - fits full size Tele ...P/N 11-01116 /pair

Indscreen 750-Pro II/ANR 500 ...........P/N 11-01112 ........

Cushions 750, 760 ................................P/N 11-01113 .

Gel cushion-Full cushion headsets ........P/N 11-01114 .

Indscreen-Full cushion headsets ........P/N 11-01115 .

Cloth Cushion Cover-Full cushion ........P/N 11-01116 .

Foam Cushion - Full cushion ........P/N 11-01117 .

Foam Cushion Cover 750 ........P/N 11-09000 .

Indscreen-Old 300/4000/Echelons ........P/N 11-01118 .

Eartips for Pro III ................P/N 11-01119 .

Mic Muff for Dynamic mic ........P/N 5036.1 .

578
TELE HEADSETS - SPORT-LINK HEADSETS/HELMETS

TELEX ECHelon 25XT HEADset
The Echelon 25XT packs additional comfort and performance features onto the solid Echelon platform. The 25XT includes Tele's innovative cell phone/MP3 adapter that allows you to attach both your cell phone and MP3 player at the same time. No more switching cords. Need to communicate? Simply mute them both at the touch of a button.

For increased comfort, the Echelon 25XT features a plush, thick foam headband pad and newly designed, more comfortable ear cushions. The Echelon 25XT also offers individual volume controls for each ear cup and a stereo/mono select switch.

FEATURES:
- Total Noise Reduction
- Customize Your Headset for a Comfortable Fit
- Cell Phone/Audio Adapter
- Advanced Microphone Technology
- Impact-Resistant Headband Design
- Seal Out Sound, Seal In Comfort
- Total Control Means Superior Sound
- Boom Microphone Technology

P/N 11-04563

TELEX AIRMAN 750 HEADSET
A featherweight headset which is the lightest in the industry. 2.5 oz. Features a miniature noise-cancelling electret microphone that provides superior 4000 z hum rejection. Microphone pivot arm pivots 310° for use on left or right side. The optional Tele PT-300 push-to-talk switch is recommended for use with the Airman 750.

P/N 11-09500

TELEX AIRMAN 750 SINGLE-SIDED HEADSET
The Airman 750SS is 25% lighter than the Airman 750. Its effective weight without the cord is only 2.4 oz. Many pilots prefer the ergonomics of a single sided headset. It eliminates the need to pull off one of the earphones when listening to cockpit conversations.

P/N 11-01123

SUPER SOFT TOP FOR HEADSETS
The Super Soft Top headset is the ultimate in comfort. Put this headset on and feel the difference. It contains two layers of foam and one layer of polyester wool that is covered with a 90% cotton fabric for maximum humidity absorption. Easy to install, it fits the following headsets:

- All David Clark models, (except DC20-10 series)
- All Pilot Avionics models, (except PA-1776, PA-1779, Premier, Concord NE, Commander series)
- All Marv Golden MG’s * All Sigtronics
- All ASA’s * All Softcom’s
- All Flightcom models (except F-20 & Eclipse)

P/N 13-00358

HEADSET COMFORT TOP
Replaces the original head pad with a sheepskin pad providing optimum comfort.

P/N 11-03014

NAV-DATA DELUXE HEADSET
The Nav-Data Technologies deluxe headset has one of the best passive noise reduction ratings of any headset available at any cost.

- There are many reasons to own a Nav-Data headset:
  - Switch selectable stereo or mono operation
  - Dual volume controls
  - Gel earseals for extra comfort and noise attenuation
  - Super padded head band for comfort during long flights
  - Full flexible mic boom - stays where you put it
  - Noise canceling electret mic
  - Eight only 14.3 ounces

P/N 13-06087

SPORT-LINK INTERCOMS
- Two Place Electret: P/N 11-05327
- Two Place Dynamic: P/N 11-05328

SPORT-LINK DETACH HELMET SYSTEM
- Dual Detach System, Electret: P/N 11-05406
- Dual Detach System, Dynamic: P/N 11-05407
- Detach Helmet / Electret headset only: P/N 11-05408
- Detach Helmet / Dynamic headset only: P/N 11-05409
- Detach helmet, Shell only - Specify: Black Gloss, Red, Gloss, Silver Metallic, Bronze Metallic

SPORT-LINK OPEN FACE HELMET SYSTEM
- Concept 1 System, Electret: P/N 11-05404
- Concept 1 System, Dynamic: P/N 11-05405
- C1 Single Helmet only, Electret: P/N 11-05409
- C1 Single Helmet only, Dynamic: P/N 11-05410
- C2 Single Helmet only, Electret: P/N 11-05411
- C2 Single Helmet only, Dynamic: P/N 11-05412
- Single Face Shield C1: P/N 11-05413

SPORT-LINK FULL FACE HELMET SYSTEM
- Two Place Electret: P/N 11-05327
- Two Place Dynamic: P/N 11-05328

SPORT-LINK ACCESSORIES
- Intercom - Pac: P/N 11-05419
- Speaker, Extended range: P/N 11-05421
- Mic, Boom: P/N 11-05422
- Dynamic Mic: P/N 11-05423
- Electret Mic: P/N 11-05424
- Easy Duty Ind Screen: P/N 11-05424
- Peak Visor: P/N 11-05425
- Helmet Extension: P/N 11-05426

SPORT-LINK RADIOS / PTT / CABLES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
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<td>Icom A4, A3, A22, A24, A6 PTT</td>
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<td></td>
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<tr>
<td>Icom A5, A23 PTT</td>
<td>11-05332</td>
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<tr>
<td>RC/icom A20, A21 PTT</td>
<td>11-05333</td>
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<td>General Aviation PTT - shielded</td>
<td>11-05335</td>
<td></td>
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<tr>
<td>General Aviation PTT - unshielded</td>
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<td></td>
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<tr>
<td>Cell Phone Cord</td>
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<td>Music Cord</td>
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**HEADSETS**

**PELTOR ANR 9500 DIGITAL HEADSET**

Digital and Analog ANR Aviation earphone aviation headset black * Foam and Gel Sealing rings * Bag * Cell and CD Audio Cables
* Power Changer
P/N 11-07590

**PELTOR SPORT LE SERIES**

These passive aviation headsets from Peltor feature a new hygiene kit for increased comfort level and include an aviation carrying case. Color Midnight blue. Lifetime warranty.

**7000 SERIES STARTER AVIATION HEADSET**

- Includes delu e carrying case, foam/liquid ear seals, single volume control knob, 180 electret swivel boom mic, folding headband, midnight blue cups. Lifetime warranty. NRR 24 dBA.

**7000 SERIES STARTER HELICOPTER HEADSET**

- Same as the aviation series but comes with the single plug helicopter cable assembler, midnight blue cups. Lifetime warranty. NRR 24 dBA.

**PELTOR PRO GT SERIES**

These passive aviation headsets from Peltor feature new gel ear seals, single volume with independent earphone level control, premium 180° swivel electret boom mic, shielded cable assembly, deep cup design for increased ear room. Lifetime warranty. NRR 26 dBA.

**7000 SERIES PREMIUM AVIATOR HEADSET**

- Includes delu e carrying case, gel earseals, single volume with independent earphone level control, premium 180° swivel electret boom mic, shielded cable assembly, deep cup design for increased ear room. Lifetime warranty. NRR 26 dBA.

**7000 SERIES PREMIUM HELICOPTER HEADSET**

- Same as the headband model aviation series but comes with a neckband model headset for use with hats. Midnight blue cups.

**HEADSET ACCESSORIES**

- Delu e Carrying Bag
- Foam liquid sealing ring w foam inserts - sold as a pair
- Gel sealing cushions - sold as a pair
- Mic foam windscreen for Sport LE series

**PELTOR WOR TUNES**

- Peltor Wor Tunes is a self-contained AM/FM radio for noise attenuation headset NRR 25dB which provides hearing protection combined with an AM/FM radio to provide. Features include a wide, soft padded headband, f ile antenna, automatic soft switch from stereo to mono for areas with weak signals, and quick and easy tuning and volume adjustments, and wide, soft cushions for low pressure, e delt ear seals, and added comfort.

**PELTOR NORDICA SPORT/ NORDICA SPORT GT**

Peltor blends them masterfully with Nordica the aviation headset developed to soar far beyond the expectations of the most discriminating pilots. • Lightest Weight •Headphone Avalon • Only 8.8 ounces • Four Dual Color Designs • Crisp, Clear Reception/Transmission •

**PELTOR ACCESSORIES**

- Mic Muff for 7004
- Mic Muff for S4

**PLANTRONICS HEADSET**

The popular MS50/T30-3 from Plantronics is similar to the Starset model but is worn clipped to eyeglasses or on a headband. The MS50/T30-3 is very comfortable and has an ANR function. Plantronics headsets are extremely reliable and widely used in the airline industry. Comes with a headband, storage bag, and flight case.

**MS200 PLANTRONICS HEADSET**

Combines a unique lightweight design and advanced technology to deliver the ultimate in comfort and reliability. The noise-canceling microphone enables clear, uninterrupted communications between air and ground. Its compact under-the-ear design ensures a secure, comfortable fit for the tendered wear, yet is convenient to carry and stow. Features * earphone every word through superior audio quality * 5-foot cord with one each P 055 and P 068 plug. * FAA approved
P/N 13-06563

**NORDICA SPORT AVIATION HEADSETS**

Peltor blends them masterfully with Nordica, the aviation headset developed to soar far beyond the e pavations of the most discriminating pilots. • Lightest Weight • Headphone Avalon • Only 8.8 ounces. Three dual-color designs. Crisp, clear reception/transmission. Counters a warning light for the battery, which turns from green to yellow to red as the battery depletes. This option will extend the battery life by automatically turning off the microphone on a short time. If so, you need our plush, super soft sheepskin and leather headband cushion. The soft sheepskin rests on your head instead of the uncomfortable headband design. Included with all headsets for even the longest trips. P/N 13-04730

**PILOT'S HEADSET CUSHION**

Constructed of plush 3/4" thick sheepskin genuine leather. Does your headset feel uncomfortable and create a sore spot on the top of your head after wearing it for a short time? If so, you need our plush, super soft sheepskin and leather headband cushion. The soft sheepskin rests on your head instead of the uncomfortable headband design. Included with all headsets for even the longest trips. P/N 13-04730

**HEADSETS, INC. EM-1 ANDR HEADSET**

EM-1 features conservative green ear cups, an Oregon Aero SoftTop padded headband, gel ear seals, and place- it-anywhere mic boom which makes it ergonomically friendly. Stereo capable with individual volume controls for each ear and a switch on the cord for mono or stereo audio. New ANR modules are made of softer material for better noise absorption. Ear cups are also rubberized for the same reason. A separate battery box is used and shares a cord with the microphone, which eliminates the need to use two separate cords. The cords are heavily reinforced at all points to avoid wear or breakage. The cords separate at the end so you can find a convenient place to stow the battery box in the cockpit. Optional power sources allow the EM-1 to be powered by the aircraft's electrical system, a cigarette lighter, or rechargeable battery. Comes with a SoftTop, an ear cushion, the Oregon Aero SoftTop, gel ear seals.

**SILICONE GEL EAR SEALS**

Gel ear seals conform to the shape of your ear, resulting in airtight fit which is required for proper an performance. If your earseals are the older dry foam or liquid filled they must be replaced.

**AUTO SHUT-OFF BATTERY BOX**

This option will extend the battery life by automatically turning off after 4 minutes of inactivity. The flashing LED ts as a reminder that the power is on and changes color from green to yellow to red as the battery depletes.

**580**
**PA-0**
- Cloth Ear Seal Covers
  - P/N 11-04950
  - 5-year warranty
  - Made in the USA

**PA-1779T ANR HEADSET**
- Passive: 25dB (NR)
- Active: 20-22dB
- Auto shut-off
- Cell/Satellite phone interface
- Auxiliary audio interface for music or audible checklist/warnings
- Mono/Stereo capability
- Dual volume control
- Twin layer gel ear seals
- Custom padded case
- Rechargeable NiMh battery
- Usage time: 30-40 hrs.
- Weight: 14.9 oz (423 grams)
- Made in USA

**PA1771T ANR HEADSET**
- Passive: 20-22dB
- Active: (NRR) 25dB
- Cell/Satellite phone
- Dual volume control
- Auxiliary audio interface
- Custom padded case for music or audible checklist/warnings
- 9V alkaline battery
- Mono/Stereo capability
- Battery life: 25-30 hrs.
- Weight: 12.9 oz (366 grams)
- Auto shut-off
- 5-year warranty
- Made in USA

**PA1761T ANR HEADSET**
- Active: 16-19dB
- Passive: (NRR) 23dB
- Cell/Satellite phone interface
- All flexible mic boom
- Mono/Stereo capability
- Dual volume control
- Auto shut-off
- Twin layer gel ear seals
- Powered by 9V battery
- Battery life: 25-30 hrs.
- Weight: 12.9 oz (366 grams)
- Padded Protective bag
- Auxiliary audio interface for music or audible check list/warnings
- 5-Year Warranty

**PA1761T MILITARY HEADSET**
- Passive: (NRR) 24dB
- Weight: 14.5 oz
- Cell/Satellite phone interface
- 3-year warranty
- Telescope-flite mic boom
- Leatherette soft seals
- Mono/Stereo capability
- Dual volume control
- Padded Protective bag
- SuperCushion headband
- Auxiliary audio interface for music / audible checklist/warnings
- 3-Year Warranty

**PA1171T MILITARY HEADSET**
- Passive: 24dB (NR)
- Au ilary audio interface for music or audible checklist / warnings
- Designed for children (1.5 - 10 yrs)
- Extra small headband for perfect fit
- SuperCushion Headpad
- Miniature all flexible mic boom
- Foam ear seals
- Weight: 13.9 oz (389 grams)
- 3-Year Warranty

**PA1779M MILITARY HEADSET**
- Passive: 23dB (NR)
- Active: Additional 20-22dB
- Shielded coiled cord with 174/ four conductor plug
- M-101 dynamic mic also avail.
- Twin layer gel ear seals
- Custom padded protective case
- Rechargeable NiMH Battery
- Usage Time: 35-40 hrs
- Weight: 14.5 oz (406 grams)
- 5-year Warranty
- Made in the USA

**PA1779M87**
- 11-06539

**PA1779M101**
- 11-06538

**PA-1151AC PILOT CHILD PASSIVE HEADSET**
- Passive: 24dB (NR)
- Au ilary audio interface for music or audible checklist / warnings
- Designed for children (1.5 - 10 yrs)
- Extra small headband for perfect fit
- SuperCushion Headpad
- Miniature all flexible mic boom
- Foam ear seals
- Weight: 13.9 oz (389 grams)
- 3-Year Warranty

**PA1176M MILITARY HEADSET**
- Passive: 24dB
- Shielded coiled cord with 174/ four conductor plug
- M-87 dynamic mic
- Super cushion headpad
- Padded Protective Bag
- M-101 dynamic mic also avail.
- Weight: 14.5 oz (406 grams)
- 3-Year Warranty

**PA1166M MILITARY HEADSET**
- Passive: 24dB
- Shielded coiled cord with 174/ four conductor plug
- M-87 dynamic mic
- Super cushion headpad
- Padded Protective Bag
- M-101 dynamic mic also avail.
- Weight: 14.5 oz (406 grams)
- 3-Year Warranty

**PILOT USA ACCESSORIES**
- Ear Seals
  - PA-1S C - 3/4" Large Soft Cushion Ear Seals for DNC-XL. P/N 11-04946
  - PA-1G - Twin Layer Gel Ear Seals. P/N 11-07873
  - PA-A - Cloth Ear Seal Covers. P/N 11-04950

**Microphones**
- A. PA-3 - P/N 11-06557
- B. PA-5 - P/N 11-06558
- C. PA-7 - P/N 11-06559
- D. PA-9 - P/N 11-06560

**Sheepskin Head Fads**
- 114213S - P/N 11-06566

**Windscreens**
- A. PA-10 - P/N 11-06562
- B. PA-10L - P/N 11-04026
- C. PA-11 - P/N 11-06564
- D. PA-11L - P/N 11-06565

**Open Cockpit Mic Covers**
- A. PA-11C - P/N 11-06564

**PILOT USA HEADSETS**
SOFTCOMM HEADSETS - NOISEBUSTER®

SOFTCOMM C-10 CHANCELLOR HEADSET
- 24 db passive NRR • Mono/Stereo switchable • Built-in PTT switch • Black gel and foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 15.1 oz. head weight • 5 year warranty
P/N 11-03756

SOFTCOMM C-20 PHOENIX HEADSET
- 23 db passive NRR • 5 year warranty • Mono/Stereo switchable • Extra large thick soft ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Weight: 13.9 oz. head weight
P/N 11-04761

SOFTCOMM C-35 WHITE KNIGHT HEADSET
- 22 db passive NRR • 3 year warranty • Mono/Stereo switchable • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy duty cables • Wt: 11.9 oz. head weight
P/N 11-03759

SOFTCOMM C-40 PRO-AM HEADSET
- 23 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 12.3 oz. head weight • 3 year warranty.
P/N 11-03761

SOFTCOMM C-45 PRINCE HEADSET
- 22 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 11.4 oz. head weight • Folds into Ball • 3 year warranty.
P/N 11-03763

C-45 10A lack 1th Audio
P/N 11-06368

SOFTCOMM C-80 BNE HEADSET
- 24db passive NRR • Mono/Stereo switchable • M-57 electret mic • Fully flexible mic boom • 66” Flexible Heavy Duty Cables • Wt: 14.9 oz. C-80 head weight • 15.6 oz. • 3 conductor cell phone compatible • 3 yr warranty
P/N 11-00211

C-45-10B lack 1th Audio
P/N 11-03746

SOFTCOMM C-100 CHANCELLOR HEADSET
- 24 db passive NRR • Mono/Stereo switchable • Built-in PTT switch • Black gel and foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 15.1 oz. head weight • Folds into Ball • 3 year warranty.
P/N 11-03764

C-45-10A lack 1th Audio
P/N 11-06368

SOFTCOMM C-200 CENTURION The C-200 headset features a contoured head pad for a soft, comfortable fit, a foam boom articulating fulcrum with adjustable mic boom and mic muff, and a small power pack with low battery LED indicator. The C-200 is cell phone ready and is complete with interface ack, interconnect cable and hands free adapter. Other features include silver black domes with silver lettering, gel and foam filled ear seals stereo mono switch and dual volume controls, noise canceling electret mic and RF immune M-56 amplifier. -24 db passive and -19 ANR, and push-to-talk switch on ear dome. t 14 oz. Power 49v battery. 3 year warranty. Made in the USA. Specifications: • Head Weight: 14.2 oz. • Total weight: 18.5 oz. • NRR Rating: 24 db Passive. -19 db active arrnty 3yr nconditional
P/N 11-03019

SOFTCOMM C-300 CENTURION The C-300 headset features a fail safe power feature which automatically converts to a full performance -24 db passive headset should ANR circuit fail. The C-300 is cell tele phone ready with amplified volume, detachable cable supplied for ground phone use in noisy environments. Supports Cell Phones equipped with a 2.5mm 3 conductor hands free ack. Listen to both Cell phone and AC at the same time. The C-300 has noise attenuation of 19db active ANR and -24 db passive, a unique noise absorbing material, positive set fit, boom, soft foam ear seals, cloth covers and mic muff. Made in the USA. Specifications: • Weight: 16.2 oz • Total Weight: 21.7 oz • NRR Rating: -24 db Passive. -17 db active • Warranty: 3 yr Unconditional
P/N 11-03020

SOFTCOMM C-40-10 RED BARON
- 23 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 12.5 oz. head weight • 3 year warranty
P/N 11-01087

SOFTCOMM C-50 BLACK KNIGHT
- 22 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flex HD Cables • Wt: 11.4oz. head weight • Folds into Ball
P/N 11-02654

SOFTCOMM C-20 SILVER EDITION
- 24 db passive NRR • PTT in Dome • Mono/Stereo switchable • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 14.9 oz. head weight • 5 year warranty
P/N 11-03766

C-OM - Racing Version Dynamic mic
P/N 11-11826

C- M - electret Version w/M-8 Military Mic for very noisy helicopters
P/N 11-11845

SOFTCOMM C-45-20 YOUTH/PASSENGER ANR
- 22 db passive NRR • 17 db active NRR • Mono/Stereo switchable • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 14.5 oz. head weight • Incl. child & adult lightweight foam ear seals • Folds into Ball • 3 yr warranty • Purple
P/N 11-01283

NOISEBUSTER® Electrically cancels irritating background noise so you can enjoy peace and quiet or enhanced clarity of music with reduced distortion. Try it on an airplane to reduce engine din and enhance the sounds of in-flight entertain ment. NoiseBuster® delivers the utmost in music clarity when used with portable audio devices. Features: • Digital-ready stereo headphones, delivering high impact stereo sound • Comfortable, lightweight, easy to adjust • Foldable for portability and easy storage (travel pouch incl.) • Airplane seat dual-prong adapter (included) • AAA battery included • Audio play-through with or without noise reduction
P/N 11-00107

SOFTCOMM HEADSET ACCESSORIES
Black Gel Ear Seals P/N 11-11834
Cloth Comfort Covers P/N 11-11810
Foam Mike Muff P/N 11-11820
Nylon Flight Bag P/N 11-11808

582
COMTRONICS HEADSETS

COMTRONICS ULTRA-LIGHT HEADSET MODEL - 3000
- Noise-canceling electret microphone
- Individual ear mufffs ad up down
- Full cover pillow-style headband
- 29dB noise-canceling ear-muffs
- 100 dielectric materials
- Contemp design
- Light weight 12 oz.
- Available in gray E tra cost options: gel/foam ear seal set or leather wind-screen
- P/N 11-07424

COMTRONICS STANDARD GENERAL AVIATION HEADSET MODEL-3000
- General Aviation Model-3000 easiest is lightweight at 10oz., has gray muffus uses an electret noise-canceling microphone and has 25dB noise reduction. This headset is also very comfortable, has a soft headband, and gel ear seals can be added as well.
- P/N 11-07427

COMTRONICS AERO-COM SYSTEM
- Each includes Two headsets and the Intercom specified

COMTRONICS DELUXE GENERAL AVIATION HEADSET MODEL-3000
- General Aviation Model-3000 easiest is lightweight at 10oz., has an electret noise-canceling microphone. These are one of the most comfortable and quietest passive headsets on the market today. Gel/foam ear seals are also available and are extremely comfortable to the seal nicely around the ear and eyeglass arms.
- P/N 11-07428

COMTRONICS EAGLE-COM SYSTEM
- Each includes Two headsets and the Intercom specified

COMTRONICS HEADPHONE
- * Listen-only Available in black only
- E tra cost option gel/foam ear seal set P/N 11-07429

COMTRONICS HEADSET ACCESSORIES

COMTRONICS ULTRA-LIGHT HELMET
- The LTRA-PRO Helmet has a built in communication system using an electret microphone, built-in ear cups, quick release face shield with either a single plug for ultra-light or two plugs for generavia aviation. This helmet has an ultra-plush interior and check pads are added to prevent air and noise from entering the helmet. Adustable top vent and rear e haust diffuser keep the helmet at a comfortable temperature.
- P/N 11-07505

COMTRONICS ULTRA-LIGHT HELMET - WHITE, RED, BLACK, or RED/BLUE
- Colors available are Metallic, Silver, Metallic In, Flat titanium, Black, and Flat Black. Please specify color Size.

COMTRONICS INSTRUCT-COM SYSTEM
- Each includes Two helmets and the Intercom specified

COMTRONICS INSTRUCT-COM SYSTEM - Dual-Com II
- Dual-Com II Intercom Panel Mount
- P/N 11-07430

COMTRONICS INTERFACE CABLE
- Interface cables are designed to connect our helmets or intercoms to your transceiver. More than 100 standard, and custom cables available.

COMTRONICS HEADSETS & HELMETS

COMTRONICS HEADSETS

COMTRONICS ULTRA-LIGHT HEADSET MODEL - 3000
- Noise-canceling electret microphone
- Individual ear mufffs ad up down
- Full cover pillow-style headband
- 29dB noise-canceling ear-muffs
- 100 dielectric materials
- Contemp design
- Light weight 12 oz.
- Available in gray
- E tra cost options: gel/foam ear seal set or leather wind-screen
- P/N 11-07424

COMTRONICS ULTRA-LIGHT HELMET
- The LTRA-PRO Helmet has a built in communication system using an electret microphone, built-in ear cups, quick release face shield with either a single plug for ultra-light or two plugs for generavia aviation. This helmet has an ultra-plush interior and check pads are added to prevent air and noise from entering the helmet. Adustable top vent and rear e haust diffuser keep the helmet at a comfortable temperature.
- P/N 11-07505

COMTRONICS ULTRA-LIGHT HELMET - WHITE, RED, BLACK, or RED/BLUE
- Colors available are Metallic, Silver, Metallic In, Flat titanium, Black, and Flat Black. Please specify color Size.
SAFETYCELL HEADSET/CELL PHONE ADAPTER

Allows a pilot to use his cell phone with his aviation headset and listen and transmit radio and phone transmissions simultaneously. SafetyCell is lightweight and portable, maintains noise control and audio quality, and uses the standard military NATO style single plug interface. The SafetyCell will work with any headset, in or out of the airplane. If you have mature ears, this unit does not require any batteries but must accommodate your phone/headset combination. Both the radio and the cell phone power packed with features. It is our most popular model. The amplified SafetyCell amplifies the cell phone by an incredible 12db. The handfree SafetyCell that is especially altered for the Bose headset circuitry. The Bose 6 pin SafetyCell is the loudest SafetyCell we make and uses the standard military NATO style single plug interface. This model is designed to work with the standard 2.5mm earpiece jack for handsfree use. Phones that do not have this feature will require an adapter. This unit now has a separate input jack for your mp3 player or walkman. The ose Pin SafetyCell model is for those that have a built in Bose headset and do not use the Bose battery pack. This model is an amplified SafetyCell that is especially altered for the Bose headset circuitry. No batteries are required. The Bose 6 pin model filters your radio and cell phone signals, cleans up your voice, and then amplifies your cell phone volume by as much as 600%, depending on your phone/headset combination. Both the radio and the cell phone signals are then brought into the headset for loud and clear communication. This is the unit you will want if your plane is on the noisy side or if you have mature ears. This unit does not require any batteries but must be plugged into your VolP microphone jack to work properly. It can also be used with the optional battery pack for your out of plane use. "ith the ability powered SafetyCell unit is powered by a 9V battery which will last for hundreds of hours. It is housed in a slim custom case that will slip right into the pilot pocket in your airplane. The battery powered SafetyCell will work with any headset, in or out of the airplane. If you want to use your SafetyCell on your boat, lawn mower, truck or airplane, this is the unit for you. This unit is amplified and is about twice as loud as the amplified SafetyCell. It will work with any cell or satellite phone that has the standard 2.5mm earpiece jack for handsfree use. Phones that do not have this feature will require an adapter. This unit now has a separate input jack for your mp3 player or walkman. The ose Pin SafetyCell model is for those that have a built in Bose headset and do not use the Bose battery pack. This model is an amplified SafetyCell that is especially altered for the Bose headset circuitry. No batteries are required. The Bose 6 pin model filters your radio and cell phone signals, cleans up your voice, and then amplifies your cell phone volume by as much as 600%, depending on your phone/headset combination. Both the radio and the cell phone signals are then brought into the headset for loud and clear communication. This is the unit you will want if your plane is on the noisy side or if you have mature ears. This unit does not require any batteries but must be plugged into your VolP microphone jack to work properly. It can also be used with the optional battery pack for your out of plane use. **NOTE** This will only work in an extremely quiet environment so you must have a VOX style intercom for it to work properly.

AVCOMM AC250 P/NR CHILD HEADSET

Features: • AVCOMM's exclusive P/NR™ audio technology • Perfect for kids or those who need a smaller headset • Simple & affordable design • Larger volume control knob — easy for a child to use • Ultra-lite Neodymium speakers • Lighter weight for added comfort • Higher noise attenuation • Acoustic mic muff included • 5yr factory warranty. P/N 11-02260

AVCOMM AC454 P/NR STEREO HEADSET

Features: • AVComm's exclusive P/NR™ audio technology • Full spectrum stereo response • Each ear cup features an independent volume control • Ultra-lite Neodymium speakers • Built-in Push-to-Talk • M-65 microphone w/active filtering chip • 4-way adjustable wire boom • Deluxe comfort package inc. • Full 5yr factory warranty. P/N 11-02261

AVCOMM AC747 P/NR CONVERTIBLE HEADSET

Features: • Exclusive P/NR™ technology and "plug and fly" design • Converts from general aviation to helicopter use (both cables included) • Full flex boom • Ultra-lite Neodymium speakers • Each ear cup features an independent volume control • M-65 microphone w/active filtering chip • Deluxe Comfort package inc. • 5yr factory warranty. P/N 11-05152

AVCOMM AC900 P/NR CONVERTIBLE HEADSET

Now featuring AVCOMM's exclusive P/NR™ audio technology, the AC-910 P/NR offers more features in an improved design with cell port. These latest enhancements make the AC-310P/NR the premium choice in the AVCOMM headset lineup. Pilots and passengers everywhere are praising the features and benefits, claiming its comfort, performance, and features surpass anything they've used before. Features: Patented P/NR audio technology and full spectrum stereo response • Ultra-lite Neodymium speakers • M-65 microphone • "active filtering" chip • 4-way adjustable wire boom • Built-in push-to-talk • Mono-stereo switch built into the cord • Each ear cup features an independent volume control • Deluxe comfort package with deluxe gel ear seals • Full 5yr warranty. P/N 11-02259

AVCOMM AC200 P/NR HEADSET

Features: • Simple & affordable P/NR™ performance • Incredible voice clarity • Higher noise attenuation • Ultra-lite Neodymium speakers • Volume control and easy to adjust stainless steel headband • Acoustic foam ear cushions • High fidelity speakers • Electret, noise-canceling microphone with "active filtering" chip • Full flex boom • Built-in push-to-talk • Mono-stereo switch built into the cord • Each ear cup features an independent volume control • Deluxe comfort package with deluxe gel ear seals • Full 5yr warranty. P/N 11-02261

AVCOMM ACCESSORIES

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COMFORT ACCESSORIES

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PARTS & ADAPTERS

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AVCOMM AC747 P/NR CONVERTIBLE HEADSET

Features: • Exclusive P/NR™ technology and “plug and fly” design • Converts from general aviation to helicopter use (both cables included) • Full flex boom • Ultra-lite Neodymium speakers • Each ear cup features an independent volume control • M-65 microphone w/active filtering chip • Deluxe Comfort package inc. • Full 5yr factory warranty. P/N 11-02261
LYNX HEADSETS - HELMETS - INTERCONS

**LYNX MICRO SYSTEM**

The Micro System is a unique self-contained cockpit equipment which is plug and play compatible with any radio. This equipment is extremely popular for use in open cockpit aircraft and is the market leader for use in ultralight, powered parachutes, etc.

**MICROSYSTEM PACKAGES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05340</td>
<td>Single eadset Package</td>
<td></td>
</tr>
<tr>
<td>11-05341</td>
<td>Add-on eadset Package</td>
<td></td>
</tr>
<tr>
<td>11-05342</td>
<td>Dual eadset Package</td>
<td></td>
</tr>
<tr>
<td>11-05343</td>
<td>Single eadset-elmet Package</td>
<td></td>
</tr>
<tr>
<td>11-05344</td>
<td>Add-on eadset-elmet Package</td>
<td></td>
</tr>
<tr>
<td>11-05345</td>
<td>Dual eadset-elmet Package</td>
<td></td>
</tr>
</tbody>
</table>

**MICROSYSTEM COMPONENTS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>System Equipment</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05346</td>
<td>Micro System eadset</td>
<td>Self contained intercom headset.</td>
<td></td>
</tr>
<tr>
<td>11-05350</td>
<td>Micro System elmet</td>
<td>E certified protective helmet. S</td>
<td></td>
</tr>
<tr>
<td>11-05351</td>
<td>Micro System elmet</td>
<td>E certified protective helmet. M</td>
<td></td>
</tr>
<tr>
<td>11-05352</td>
<td>Micro System elmet</td>
<td>E certified protective helmet. L</td>
<td></td>
</tr>
<tr>
<td>11-05353</td>
<td>Micro System elmet</td>
<td>E certified protective helmet. XL</td>
<td></td>
</tr>
<tr>
<td>11-05354</td>
<td>elmet Visor</td>
<td>Attaches to the helmet with screw fits.</td>
<td></td>
</tr>
<tr>
<td>11-05356</td>
<td>Dual Charger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-05358</td>
<td>Visor E tension</td>
<td>ind deflector chin guard for</td>
<td></td>
</tr>
<tr>
<td>11-05359</td>
<td>eadset Bag</td>
<td>Cloth bag for a helmet and visor.</td>
<td></td>
</tr>
<tr>
<td>11-05360</td>
<td>Panel E. ten. Lead</td>
<td>Tension lead with panel socket.</td>
<td></td>
</tr>
<tr>
<td>11-05361</td>
<td>eadset Panel Adapter</td>
<td>Converts lead socket into panel.</td>
<td></td>
</tr>
<tr>
<td>11-05362</td>
<td>eadset Lead Splitter</td>
<td>sed to connect several headsets together.</td>
<td></td>
</tr>
<tr>
<td>11-05363</td>
<td>eadset Lead Comb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-05365</td>
<td>elmet Goggles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-05366</td>
<td>elmet elmet Bag</td>
<td>Large bag for complete systems.</td>
<td></td>
</tr>
</tbody>
</table>

**MICROSYSTEM ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05361</td>
<td>Twin ack Switch</td>
<td>Converts the headset to twin ack plug.</td>
</tr>
<tr>
<td>11-05362</td>
<td>Audio Adapter</td>
<td></td>
</tr>
<tr>
<td>11-05370</td>
<td>Radio Adapter</td>
<td>Connects one headset to a radio.</td>
</tr>
<tr>
<td>11-05371</td>
<td>Radio Interface unit</td>
<td>Connects one or two headsets to a radio.</td>
</tr>
<tr>
<td>11-05372</td>
<td>RadioPower Interface unit</td>
<td>Connects two headsets to a radio.</td>
</tr>
<tr>
<td>11-05373</td>
<td>Velcro Mount PTT Switch</td>
<td>Velcro fit PTT Switch.</td>
</tr>
<tr>
<td>11-05374</td>
<td>Screw Mount PTT Switch</td>
<td>Screw fit PTT Switch.</td>
</tr>
<tr>
<td>11-05375</td>
<td>F T e tension Lead</td>
<td>Two Hong e tension lead for PTT Switch.</td>
</tr>
<tr>
<td>11-05376</td>
<td>Mobile Telephone Lead</td>
<td>Special PTT connector with two metre lead.</td>
</tr>
<tr>
<td>11-05377</td>
<td>Power Supply Lead</td>
<td></td>
</tr>
<tr>
<td>11-05378</td>
<td>Power Supply filter</td>
<td>sed to filter aircraft power supply.</td>
</tr>
<tr>
<td>11-05380</td>
<td>Large Power Filter</td>
<td></td>
</tr>
<tr>
<td>11-05382</td>
<td>Radio Power Filter</td>
<td>sed to prevent feedback from two radios.</td>
</tr>
<tr>
<td>11-05384</td>
<td>F Antenna-Short Flex</td>
<td>Antenna for use with airband radios.</td>
</tr>
<tr>
<td>11-05385</td>
<td>F Antenna-1/4 wave</td>
<td>Antenna for use with airband radios.</td>
</tr>
<tr>
<td>11-05386</td>
<td>Antenna E tension Lead</td>
<td>Five metre e tension for antenna.</td>
</tr>
<tr>
<td>11-05387</td>
<td>Adapter LA-25</td>
<td>sed to connect Cobra FRS and GMRS radios.</td>
</tr>
<tr>
<td>11-05388</td>
<td>Adapter LA-44</td>
<td>sed to connect aesu VXA 100/120 radios.</td>
</tr>
<tr>
<td>11-05389</td>
<td>Adapter LA-44</td>
<td>sed to connect aesu VXA 100/120 radios.</td>
</tr>
<tr>
<td>11-05390</td>
<td>Adapter CT-44T</td>
<td>sed to connect aesu VXA 100/120 radios.</td>
</tr>
<tr>
<td>11-05391</td>
<td>Adapter CT-96</td>
<td>sed to connect aesu VXA 100/120 radios.</td>
</tr>
<tr>
<td>11-05392</td>
<td>Adapter CT-96</td>
<td>sed to connect aesu VXA 100/120 radios.</td>
</tr>
</tbody>
</table>

**LYNX PILOT SYSTEM**

The Pilot System is a range of headsets and helmets for use in light aircraft and helicopters. The main advantage of these products are that they provide an integrated headset and helmet system for use in aircraft which have standard twin ack intercom equipment already installed.

**LYNX RELAY SYSTEM**

The relay System is a range of headsets and helmets for direct connection to hand-portable radios. This equipment also provides the facility to use a helmet with the headset and is used mainly by pilots of single seat aircraft, paramotor pilots and airport ground crew.

**LYNX ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05395</td>
<td>Radio System</td>
<td></td>
</tr>
<tr>
<td>11-05400</td>
<td>Lyn Avionics Relay System</td>
<td></td>
</tr>
<tr>
<td>11-05402</td>
<td>Allows Lyn Avionics Relay System</td>
<td></td>
</tr>
<tr>
<td>11-05404</td>
<td>Ear Seals Type 1 Foam</td>
<td>Foam ear seals use with all headsets.</td>
</tr>
<tr>
<td>11-05405</td>
<td>Microphone ind Shield</td>
<td>Large 37mm</td>
</tr>
<tr>
<td>11-05406</td>
<td>Microphone ind Shield</td>
<td>Small 25mm</td>
</tr>
</tbody>
</table>

Please specify the make and model that will be used with this product.
PUSH-TO-TALK SWITCHES

TELEX PT-300 PUSH-TO-TALK SWITCH - Attaches to any control wheel. Simple installation, no tools required. Simply wrap hook and plie strap around control wheel. Provides improved communications inside and outside the aircraft. Designed so that the pilot may push down to rotate the radio transmit function, instead of the traditional sideways activation of typical switch on PTTs. Secures to the top of the vertical handle of the control yoke with provided velcro strap. P/N 11-09703 .................. $56.95

ECONOMY PUSH-TO-TALK SWITCH - Similar to PT-300, this top quality switch is offered at considerable savings. Features gold contacts for durability. Fully guaranteed. P/N 11-12200 .................. $29.95

DAVID CLARK C10-15 PORTABLE PUSH-TO-TALK SWITCH - Designed so that the pilot may push down to rotate the radio transmit function, instead of the traditional sideways activation of typical switch on PTTs. Secures to the top of the vertical handle of the control yoke with provided velcro strap. P/N 11-09703 .................. $56.95

PTT-400 PORTABLE PUSH-TO-TALK SWITCH - Designed so that the pilot may push down to rotate the radio transmit function, instead of the traditional sideways activation of typical switch on PTTs. Secures to the top of the vertical handle of the control yoke with provided velcro strap. P/N 11-09703 .................. $56.95

SIGTRONICS PUSH-TO-TALK SWITCH - This versatile yoke mounted switch features a sealed aluminum alloy case and mounts in a .380 diameter hole. Button is red thermoplastic. P/N 11-02926 .................. $14.95

NAV-DATA PUSH-TO-TALK SWITCH - Finally, an affordable Push-to-talk switch. Easy duty construction. Iff dual internal contacts. Also equipped with a strap to attach to any yoke control. P/N 13-06089 .................. $8.95

MICROPHONES

TELEX 56 TRANSDISTORIZED MICROPHONE - Dynamic, noise-canceling, hand-held mic. Built-in amplifier is ad-justable for full transmitter output. Meets specifications for aircraft and mobile applications. Impedance 50-600Ω. Wt: 9oz. Complete with 5 ft coiled cord and hanger bracket. Also available with right-angle plug - specify model 66TRA. P/N 56T .................. Right angle plug P/N 66TRA .................. $56.95

TELEX 100TRA DYNAMIC MICROPHONE - Dynamic, noise-canceling, amplified, handheld mike. Push-to-talk switch is in front. Amsule beige and black with walnut grain trim. Impedance 50-600Ω. Wt: 9 oz. Includes 5ft. coiled cord with right-angle plug and hanger bracket. P/N 100TRA .................. $39.95

TELEX 38T ELECTRET MICROPHONE - A state-of-the-art high quality noise cancelling microphone designed as a direct replacement for the RS-38 series microphones. Anger bracket not included. P/N 38T .................. $39.95

TELEX 500T ELECTRET MICROPHONE - Amplified hand-held electret mike features outstanding noise cancellation. Impedance 50-800 Ω (ohms). Weight: 6.5oz. Complete with 5ft. coiled cord, plug and hanger bracket. P/N 500T .................. $59.95

DAVID CLARK M-4 MICROPHONE - The M-4 electret microphone is featured on the 10-40 and 10-46 headsets. Available separately, as are all David Clark mics. P/N 11-03908 .................. $39.95

DAVID CLARK M-1/DC AMPLIFIED DYNAMIC HEADSET MIC - The M-1/DC Amplified Dynamic headset microphone is a noise canceling type designed to operate in place of carbon and amplified dynamic microphones. P/N 11-09230 .................. $59.95

DAVID CLARK M-1A AMPLIFIED DYNAMIC HEADSET MIC - The M-1/AMplified Dynamic headset microphone is a noise canceling type designed to operate in place of carbon and amplified dynamic microphones. P/N 11-09225 .................. $39.95

CALL FOR SPECIAL PRICES!

HEADSET MICROPHONE A1060 BLACK - Proper Shielding improves noise immunity in aircraft with heat and windsheilds, power inverters, and other sources of electrical noise. Fits all C40 Model headsets David Clark, Softcomm, Tele, etc. P/N 11-04838 .................. Microphone windshield covers all headsets P/N 11-04840 .................. $39.95

LEATHER FLYING HELMETS

MODEL 711

GOATSKIN HE MET OR A C ARK HEA SETS

Black Small ... P/N 11-10505-S .................. $39.95
Black Medium ... P/N 11-10505-M .................. $39.95
Black Large ... P/N 11-10505-L .................. $39.95
Black X-Large ... P/N 11-10505-X .................. $39.95
Brown Small ... P/N 11-10510-S .................. $39.95
Brown Medium ... P/N 11-10510-M .................. $39.95
Brown Large ... P/N 11-10510-L .................. $39.95
Brown X-Large ... P/N 11-10510-X .................. $39.95

MODEL 711K

COTTON CAN AS HE MET OR A C ARK HEA SETS

Brown With Leather Ear Cut-Outs Small ... P/N 11-10255-S .................. $39.95
Medium ... P/N 11-10255-M .................. $39.95
Large ... P/N 11-10255-L .................. $39.95

MODEL 711L

ECCO INE GOATSKIN HE MET OR A C ARK HEA SETS

Black Small ... P/N 11-10515-S .................. $39.95
Black Medium ... P/N 11-10515-M .................. $39.95
Black Large ... P/N 11-10515-L .................. $39.95
Black X-Large ... P/N 11-10515-X .................. $39.95
Brown Small ... P/N 11-10520-S .................. $39.95
Brown Medium ... P/N 11-10520-M .................. $39.95
Brown Large ... P/N 11-10520-L .................. $39.95
Brown X-Large ... P/N 11-10520-X .................. $39.95

MODEL 711M

MESH OR A C ARK

Small ... P/N 11-10555-S .................. $39.95
Medium ... P/N 11-10555-M .................. $39.95
Large ... P/N 11-10555-L .................. $39.95
X-Large ... P/N 11-10555-X .................. $39.95

MODEL 712

TRA ITIONA GOATSKIN \\ING HE MET

Black Small ... P/N 11-10530-S .................. $39.95
Black Medium ... P/N 11-10530-M .................. $39.95
Black Large ... P/N 11-10530-L .................. $39.95
Black X-Large ... P/N 11-10530-X .................. $39.95
Brown Small ... P/N 11-10535-S .................. $39.95
Brown Medium ... P/N 11-10535-M .................. $39.95
Brown Large ... P/N 11-10535-L .................. $39.95
Brown X-Large ... P/N 11-10535-X .................. $39.95

MODEL 712C

TRA ITIONA COTTON CAN AS \\ING HE MET

Small ... P/N 11-10550-S .................. $39.95
Medium ... P/N 11-10550-M .................. $39.95
Large ... P/N 11-10550-L .................. $39.95
X-Large ... P/N 11-10550-X .................. $39.95

MODEL 712L

Black Small ... P/N 11-10540-S .................. $39.95
Black Medium ... P/N 11-10540-M .................. $39.95
Black Large ... P/N 11-10540-L .................. $39.95
Black X-Large ... P/N 11-10540-X .................. $39.95
Brown Small ... P/N 11-10545-S .................. $39.95
Brown Medium ... P/N 11-10545-M .................. $39.95
Brown Large ... P/N 11-10545-L .................. $39.95
Brown X-Large ... P/N 11-10545-X .................. $39.95

Note: Specify size by completing part no. with - S, M, - , or -1 for X .

Small - 1 - Med. - 3 - Large - 4 - X-Large - 4 -

MIC/BOOM KITS FOR AVIATION HELMETS

Now available for aviation helmets the David Clark patented combination mic and /boom assy Kit for aviation helmets high impedance /civilian radio systems. Model 40860-24 P/N 11-00866 .................. $39.95

M-7A mic and /boom assy Kit for Aviation helmets high impedance /civilian radio systems. Model 40860-24 P/N 11-00866 .................. $39.95

## DAVID CLARK HEADSET ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comfort covers</td>
<td>David Clark</td>
<td>11-04793</td>
</tr>
<tr>
<td>Mic muff</td>
<td>David Clark</td>
<td>11-05478</td>
</tr>
<tr>
<td>Gel earseals</td>
<td>David Clark</td>
<td>11-04820</td>
</tr>
<tr>
<td>avid Clark undercut comfort</td>
<td></td>
<td>11-01782</td>
</tr>
<tr>
<td>oam- filled ear cushions</td>
<td></td>
<td>11-04787</td>
</tr>
<tr>
<td>C M-4 mic muff</td>
<td></td>
<td>11-04819</td>
</tr>
<tr>
<td>Stop gap</td>
<td></td>
<td>11-04785</td>
</tr>
</tbody>
</table>

### STRAIGHT CORD (5 FT) WITH PJ-068 & PJ-05 401330-04
- Increases the versatility of the 10-60 headset. Plugs into the dome connector.

### COIL CORD (5 FOOT) WITH PJ-068 & PJ-05 PLUGS 401330-05
- Increases the versatility of the 10-60 headset. Plugs into the dome connector.

### COIL CORD (5 FOOT) WITH U-174/U PLUG 401330-06
- Increases the versatility of the 10-60 headset. Plugs into the dome connector.

### PLUG ADAPTER 18253G-01
- Converts P-068 to -75/ P-055 to -75/5

### PLUG ADAPTER 18253G-02
- Converts -75/ to M642/5-1 P-068 and M642/1-1 P-055

### PLUG ADAPTER 18253G-03
- Converts -75/ to -174/ P-055

### PLUG ADAPTER 18253G-04
- Converts -75/ or -93A/ to -75/ P-055

### PLUG ADAPTER 18253G-05
- Converts -174/ or -93A/ to M642/5-1 P-068 and M642/4-1 P-055. Also converts the helicopter Single Plug to a Dual Plug configuration for fixed wing flying. General Aviation Applications only. P-055

### PLUG ADAPTER 18253G-06
- Converts -174/ to -93A/ to M642/5-1 P-068 and M642/4-1 P-055. Also converts the helicopter Single Plug to a Dual Plug configuration for fixed wing flying. General Aviation Applications only. P-055

### PLUG ADAPTER 18253G-17
- Converts NATO to P-068 P-055

### PLUG ADAPTER 18253G-16
- Converts P-068 to NATO P-055

### PLUG ADAPTER 18253G-18
- Converts NATO to NATO

### CLOTH HELMET
- To accommodate David Clark headsets.
  - Size 7-1/4 P-055
  - Size 7-1/2 P-055

## AVIATION HEADSET PORTABLE MUSIC ADAPTER

The PSA0017C addresses the problem of attempting to use an aviation headset to listen to a portable music device while connected to the aircraft intercom. The 600 ohm aviation headset requires more power to drive than low-power portable music devices are capable of delivering. Furthermore, music at levels high enough to overcome the high-noise environments of the general aviation cockpit can easily drown out other intercom audio. The PSA0017C resolves both of these issues easily.

### AIRCRAFT INTERCOM RECORDING CABLE

The I.R.C0014 series intercom recording cables addresses the problem of attempting to use a standard microphone interface to record a signal intended to drive a 600 ohm aviation headset. The integrated electronic circuitry steps the signal down to levels expected by the recording device, preventing oversaturation of the recording device and thereby eliminating any distortion. Additional protection is provided via AC coupling, ensuring that only the audio signal is passed while DC power remains isolated to the respective equipment. At low levels, DC power interference can reveal itself as a high-pitched squeal in the recorded audio. If enough voltage is present, irreparable equipment damage can occur. Professional grade metallic connectors are utilized to ensure signal integrity, while providing additional electrical shielding not available from low cost plastic parts, ensuring the cleanest low-noise recording possible. P/N 11-06247

### IPOD / MP3 MUSIC ADAPTER

This adapter works with your existing intercom by pumping your music into any available mic jack, allowing it to be distributed through the intercom to everyone wearing a headset. Plug one end into the aircraft's mic jack and the other into your media player's headphone jack. * Compatible with iPod, iPhone, mP3, CD, laptop, and most other portable media players * Music in your headset without costly upgrades * Listen to music through the aircraft's speaker during pre-flight * Plugs into standard mic jack * Use Plug and Play Technology. P/N 11-05474

### HEADSET CUSHION

- PA-10L - All dynamic microphones (e.g., David Clark, etc.) and Tele-Comm ProAir 2000E and ANR-type headsets. P/N 11-02858
- PA-10M - Flightcom 4DX, 5DX, Skycom 400A, 500A, 600A. Sigtronics S-58, S-60, 5-20, Peltor LE Sport, 7004, Fostex. Tele-Comm Stratus, Alman 750 ANR 150, David Clark 10-40, 10-40, 10-80, 10-20, 10-21, 10-26, 10-26, 13.4. Pilot dts. P-51, 11-40, 11-40, all anrs. P/N 11-05807
- PA-10S - Flightcom Denali, Sigtronics S-58. Peltor 7000 Pro GT Bose ANRs. P/N 11-05809
- M-87 - Any headsets using M-87 Microphones usually the mics in helmets such as Gente L or Gallet. P/N 11-05810

### MICROPHONE WINDSCREENS

- PA-10L - All dynamic microphones (e.g., David Clark, etc.) and Tele-Comm ProAir 2000E and ANR-type headsets. P/N 11-02858
- PA-10M - Flightcom 4DX, 5DX, Skycom 400A, 500A, 600A. Sigtronics S-58, S-60, 5-20, Peltor LE Sport, 7004, Fostex. Tele-Comm Stratus, Alman 750 ANR 150, David Clark 10-40, 10-40, 10-80, 10-20, 10-21, 10-26, 10-26, 13.4. Pilot dts. P-51, 11-40, 11-40, all anrs. P/N 11-05807
- PA-10S - Flightcom Denali, Sigtronics S-58. Peltor 7000 Pro GT Bose ANRs. P/N 11-05809
- M-87 - Any headsets using M-87 Microphones usually the mics in helmets such as Gente L or Gallet. P/N 11-05810

### HEADSET UPGRADE KITS

- Bose upgrade kit - 10-30-10-30, 10-56. Pilot kits with the same nomenclature. P/N 11-05809
- Flightcom Denali, Sigtronics S-58. Peltor 7000 Pro GT Bose ANRs. P/N 11-05809
- M-87 - Any headsets using M-87 Microphones usually the mics in helmets such as Gente L or Gallet. P/N 11-05810

For considerably less than the cost of a new headset, you can upgrade the headset you already own to improve comfort and performance. You'll experience improved intelligibility and transmission clarity and you'll enjoy pain-free, cool, dry ears. Comes with A-SoftTop headset Cushion, B- SoftSeal Ear Cushions, C- SoftSkin Ear Seal Covers, D- uShuKt Passive Ear Cup Noise Attenuation Kit, E- MicMuff Microphone Cover, David Clark upgraded Kit. P/N 11-07808
- Bose upgraded kit. P/N 11-06309
mission clarity. MicMuff™ functions as an acoustic baffle and must be used in open cockpit, warbirds, or other very noisy aircraft. The P/N 11-10923 ..............

P/N 11-10922..............

P/N 11-10921..............

P/N 11-10930 ...............

P/N 11-10937..............

P/N 11-10938..............

P/N 11-10939..............

P/N 11-06310...................

SoftSkin Ear Seal Covers for 3/4 thick SoftSeal Ear Cushions

SoftSkin Ear Seal Covers for 1-1/8 thick SoftSeal Ear Cushions

SoftSkin Ear Seal Covers for 2-1/4 thick SoftSeal Ear Cushions

SoftSkin Ear Seal Covers for 3/4 thick SoftSeal Ear Cushions

SoftSkin Ear Seal Covers for 1-1/8 thick SoftSeal Ear Cushions

SoftSkin Ear Seal Covers for 2-1/4 thick SoftSeal Ear Cushions

The look Aviation eadset anger is designed to be installed on one of the tube crossmembers in the cockpit of aircraft with e posed tubing upon which to hang your headsets when not in flight. These types of aircraft include uskies, Cubs, Citabrias, etc. This makes entering or e-ting the eatchcraft much easier an deliminates the chance of damaging your headset or the interior of the aircraft. This product has been machined from 6061-T6 aluminum with stainless steel hardware for a lifetime of service. Mounts on 3/4 tubing.

- oek eadset anger 3/4 .........................P/N 11-02409

- oek eadset anger 7/8 .........................P/N 11-02410

FOR BOSE® AVIATION HEADSET X™ 8300DMX-

Includes

- SoftSkin® Ear Seal Covers
- MicMuff® Microphone Cover
- HushKit® Passive Ear Cup
- Noise Attenuation Kit
- SoftTop® Ear Cushions

PN 11-06310..........................

MILITARY HEADSET UPGRADE KIT FOR DAVID CLARK TYPE HEADSETS - Packaged to Military Specs

PN 11-06310..........................

OREGON AERO HEADSET UPGRADE KITS

PASSIVE NOISE ATTENUATION COMPONENTS PER ORM ETHER THAN ANR HEAD SETS

eadset upgrade Testing-The headset upgraded with Oregon Aero components performed better than ANR headsets in tests conducted at a .S. Government laboratory.

In the mid-range frequency levels of 700-7000 hz, the Oregon Upgraded headset performed better than the best-performance ANR headset, and in fact the Oregon Aero numbers significantly and consistently dip BELO the DESIRED 85db level. This is the sound frequency range that contributes the most to hearing damage and loss.
MIC & PHONE JACK HOUSINGS

2 HOLE Surface Mounted MIC & PHONE JACK HOUSING - If panel space is scarce or you prefer to locate your headphone acks in a more convenient spot, this housing is perfect. Mounts flush to any flat surface, eat-treated aluminum with a powder coat finish. acks not included. See electrical section.

PLUGS & PANEL JACKS

Made to specification MIL-P-642A.

Microphone Plug, 3-Circuit PL-068 Takes -033 mating ack P/N 11-04065 

Microphone ack, 3-Circuit -033 .................. P/N 11-03918

Microphone ack, 2-Circuit -034 .................. P/N 11-03907

Insulated Flat acker S C S1028 Black P/N 04-00975

U-61/U JACK – MIL-C-22442/4-1 NSN 5935-00-689-6052 Mates with -75/ 
P/N 11-00696

U-172/U MICROPHONE JACK – NSN 5935-00-665-7599 Mates w/ -172/ , -P -292, or MP-101. 2-conductor ack winch-knob and beryllium copper contacts assembled into nylon body. P/N 11-00697

U-75/U PLUG – MIL-C-22442/5-1 Mates with -61/ 
P/N 11-00698

4-CONDUCTOR PLUG – TP-120, -174/ , -93A/ , MIL-C9177/1B NSN 5935-00-642-0626 Mates w/ -92/ , -T -120 -T -102. ack, and T-101 ack. 1-piece nickel plated brass contacts are integrally molded into plastic body. P/N 11-00699


25" COMMERCIAL STEREO PHONE PLUG – S-250 P 055B Mates w/ -034 or CE80. Black plastic handle w/ 25 dia. chrome-plug. 3 conductors. solder plug cable clamp. P/N 11-00704

1/8" STEREO PLUG (5.5MM) – Black plastic handle w/ solder terminals cable clamp. P/N 11-00705

TRIPLE HELICOPTER ADAPTER W/7" CABLE

T T-120 T T-102 type acks This adapter allows for 3 headsets to share one 4 conductor panel mount in ack. Backing of converter bo comes with commercial grade Velcro adhesive tape for easy attachment to any surface. P/N 11-02752

.25" HEADSET PLUG REDUCER

This adapter reduces a single .25 headset plug to a single .206 headset plug. 5 in length. B-34 P/N 11-02748

.206 MICROPHONE PLUG REDUCER

This adapter reduces a single .206 microphone plug to a 5.5mm mini plug. 5 in length. B-35 P/N 11-02749

HEADSET TAPE RECORDER ADAPTER

This adapter allows you to record conversations through your headset into a portable tape recorder, 40 in length. Great for student pilots recording lessons. B-40 P/N 11-02750

MIC / PHONE JACK MOUNTING BRACKET

Mic Phone ack Bracket-90 degree under the dash. Also for switches, fuses etc.. A sturdy and attractive mount, sides are formed to hide wires. .063 thick heat-treated aluminum. Black wrap-knit powder coat finish. Five styles to choose from for most any installation. Easily installed.

MIC OR PHONE JACK MOUNT 1 HOLE - 1 hole for either Mic or Phone Mounting Bracket Dimensions- 1.5w 1.5h 1.0 deep. Black wrap-knit powder coat finish. P/N 11-01170

MIC OR PHONE JACK MOUNT 2 HOLE - 2 holes for either Mic or Phone Mounting Bracket Dimensions- 2.3w 1.5h 1.0 deep. Black wrap-knit powder coat finish. P/N 11-01180

MIC OR PHONE JACK MOUNT VERTICAL 4 HOLE - Bracket - 4 hole vertical Mic or Phone Dimensions- 2.3w 2.5h 1.0 deep. P/N 11-01190

MIC OR PHONE JACK MOUNT HORIZONTAL 4 HOLE - Bracket - 4 hole horizontal for either Mic or Phone Dimensions- 4.5w 1.5h 1.0 deep. P/N 11-01942

WORKSHOPS & ACCESSORIES

AVIONICS ACCESSORIES

AV
**HEADSET ADAPTERS AND EXTENSIONS**

**HEADSET EXTENSIONS**

**HEADPHONE EXTENSION** – This heavy duty extension allows a .25 phone plug to be extended by 5 ft. Great for customizing an aircraft with rear passenger headphone jacks or other capabilities.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-10620 | Heavy Duty | \n
**HEADSET EXTENSION** – This heavy duty extension allows a general aviation headset using a 5/8 or equivalent plugs to be extended by 5 ft. Ideal when aircraft radio or intercom does not allow headset cords to reach comfortably.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-10640 | Heavy Duty | \n
**MICROPHONE EXTENSION** – This heavy duty extension allows a .206 mic plug to be extended by 5 ft. Great for customizing an aircraft with rear passenger microphone jacks.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-10625 | Heavy Duty | \n
**HELICOPTER HEADSET EXTENSION** – E tends a headset which uses a .174/ or -93A/ type plug into one which uses a .25 phone plug. Length 9 ft.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</table>
| P/N 11-00689 | Heavy Duty | \n
**“Y” ADAPTERS**

**DUAL HEADSET Y ADAPTER** – This heavy duty adapter converts one .25 phone plug into two. Perfect for those who want to connect two headsets to one a/c radio headphone jack. Can be used with stereo or mono headsets and phone jacks.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Details</th>
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</table>
| P/N 11-10610 | Heavy Duty | \n
**DOUBLE HEADSET Y ADAPTER** – This heavy duty adapter converts one set of a/c radio panel jacks, .206 mic and .25 phone plug into two sets. Can be used with any general aviation headset using a .174/ or -93A/ type plug.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</thead>
</table>
| P/N 11-10635 | Heavy Duty | \n
**DUAL MICROPHONE Y ADAPTER** – This heavy duty adapter converts one .206 aircraft radio microphone plug into two. Perfect for those who want to add another push-to-talk position to the radio. Length 2 ft.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</table>
| P/N 11-10615 | Heavy Duty | \n
**TRIPLE HEADSET ADAPTER** – This high quality adapter converts a set of radio or intercom mic and phone jacks into three sets. Sets are one, three, and five feet respectively. Great for adding a pair of headsets to the back of the aircraft without requiring new installation.

<table>
<thead>
<tr>
<th>Model</th>
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</thead>
</table>
| P/N 11-00680 | Heavy Duty | \n
**DUAL HELICOPTER Y HEADSET ADAPTER** – This adapter allows a single helicopter radio or intercom to be extended by 5 ft. T-T-102 is used by two headsets. Length 1 ft. Great for adding an additional space for headset without costly installation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</thead>
</table>
| P/N 11-00681 | Heavy Duty | \n
**PATCHCORD COCKPIT VOICE RECORDER**

PatchCord has been designed to enable you to record on any tape recorder or video camera, both sides of all your radio communications and all mic equipped persons in the aircraft when used with intercom. If not equipped with intercom, PatchCord enables you to record both sides of all your radio communications if aircraft has sidetone. The most advantageous way to use PatchCord is with the intercom and voice actuated tape recorder.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</thead>
</table>
| P/N 11-00683 | Heavy Duty | \n
**AIRCRAFT/HELICOPTER CONVERSION ADAPTERS**

**.206" JACK Y ADAPTER** – This adapter converts a headset with a single .206 plug into one with 2 standard .206 mic and phone plugs. Length 9 ft.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-00682 | Heavy Duty | \n
**.25" JACK Y ADAPTER** – This adapter converts a headset with a single .25 plug into one with 2 standard .206 mic and .25 phone plugs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</thead>
</table>
| P/N 11-00683 | Heavy Duty | \n
**.206" PLUG Y ADAPTER** – This adapter converts a headset with dual .206 mic and .25 phone plugs into one .25 headset.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-00684 | Heavy Duty | \n
**.25" PLUG Y ADAPTER** – This adapter converts a headset with dual .206 mic and .25 phone plugs into one .25 headset.

<table>
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<tr>
<th>Model</th>
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</tr>
</thead>
</table>
| P/N 11-00685 | Heavy Duty | \n
**STANDARD (MIC/PHONE) TO HELICOPTER ADAPTER** – This adapter converts a G.A. headset that has both mic and phone plugs into one that uses a -174/ or -93A/ type plug.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-10630 | Heavy Duty | \n
**HELICOPTER TO STANDARD (MIC/PHONE) ADAPTER** – This adapter converts a -174/ or -93A/ headset that has one plug into a G.A. headset that has both mic and phone plugs.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Details</th>
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</thead>
</table>
| P/N 11-10650 | Heavy Duty | \n
**U-75/U OR U-93A HEADSET CONVERTER ADAPTER** – This adapter converts a headset -75 plug to a -174/ or -93A/ type plug.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-00686 | Heavy Duty | \n
**U-75/U HEADSET CONVERTER ADAPTER** – This adapter converts a headset which has a -174/ or -93A/ type plug into one which uses a .25 phone plug.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-00687 | Heavy Duty | \n
**U-75/U HEADSET CONVERTER ADAPTER** – This adapter converts a headset which has a .206 mic and .25 phone plug into one which uses a .25 phone plug.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| P/N 11-00690 | Heavy Duty | \n
**U-75/U TO STANDARD PLUGS CONVERTER** – This adapter converts a headset which has a .206 mic and .25 phone plug into a standard .206 mic and .25 phone plug.

<table>
<thead>
<tr>
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<th>Description</th>
<th>Details</th>
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</thead>
</table>
| P/N 11-00691 | Heavy Duty | \n
**SPECIALTY ADAPTERS/ IMPEDANCE CONVERTERS**

**VIDEO RECORDER ADAPTER GA/HELICOPTER** – This product allows you to interface your video recorder with the aircraft intercom system. Great for creating your own aerial videos without excess cabin noise. Records sounds transmitted through the intercom system only. Std Version....P/N 11-00692

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</table>
| P/N 11-00693 | Heavy Duty | \n
**CD PLAYER GENERAL AVIATION ADAPTER** – This product allows you to interface your portable CD player with a general aviation headset.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</table>
| P/N 11-10645 | Heavy Duty | \n
**LOW TO HIGH IMPEDANCE ADAPTER** – This product allows you to interface your portable CD player with a general aviation headset.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Details</th>
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</table>
| P/N 11-00706 | Heavy Duty | \n
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**590**
HEADSET ACCESSORIES — ADAPTERS

LIQUID FOAM EAR SEALS
Replacement ear seals for DC40 style headsets. Great comfort—replacement ear seals with foam and liquid interior.

HEADPHONE 22-1773

FOAM EAR SEALS
Replacement ear seals for DC40 style headsets. All foam interior with comfortable ear. These superb ear seals will make you think twice before taking your headset off.

IPD/M3C ADAPTER
This adapter can be used to connect your IPD or M3C player directly into your intercom system. It comes in a 5 length. 

AIRBUS ADAPTER
This adapter will allow you to use your general aviation headset with a European Airbus intercom communication system.

BLUETOOTH CELLPHONE / MUSIC ADAPTER
Bluetooth wireless technology allows the use of Bluetooth cellphone and IPD / M3C player with any General Aviation GA Version . P/N 11-06553 .................$249.00 Bose Version ... P/N 11-06614

PILOT USA ADAPTERS

HEADSET ADAPTERS

Description Part No. Price
PA-50 Push-to-talk use with or without Intercom 11-07712 .
PA-70S earphone E tension 5h 11-08517 .
PA-71 Microphone E tension 5h 11-08520 .
PA-72S Dual earset Adapter 11-08518 .
PA-72 Dual electrophone Adapter 11-03362 .
PA-73S Dual earphone Adapter 11-08519 .
PA-74 Dual Microphone Adapter 11-08521 .
PA-75 electrophone to GA headset Adapter 11-08523 .
PA-76 GA to electrophone Adapter 11-08524 .
PA-77 earphone tension 15  plastic 11-06823 .
PA-78 Mono Replacement earset Cable E chrome plugs 11-03563 .
PA-79 MonoStereo Replacement earset Cable E chrome plugs 11-03564 .
PA-79DNC M/S earset Cable For use with PA-1779, PA-1716, PA-2 11-06521 .
PA-80 GA Video Recorder/CD Player Adapter 11-00694 .
PA-81 Airbus aircraft headset Adapter 11-03565 .
PA-82 earset Adapter for ICOM A22, A24 Transceiver 11-02116 .
PA-824 earset Adapter for ICOM A4 Transceiver 11-03567 .
PA-82B Bose earset Adapter for IC-A6, A22, A24 11-06523 .
PA-82C earset Adapter for ICOM A6, A22, A24 11-06524 .
PA-83 Europe NATO to US NATO earset Adapter 11-06563 .
PA-84 S NATO to Europe NATO earset Adapter 11-06546 .
PA-85 earset Adapter for ICOM A5, A23 Transceiver 11-00618 .
PA-86A Amplified Cell phone Adapter GA 11-03568 .
PA-86A Amplified Cell phone Adapter - electrophone version 11-06527 .
PA-86B Amplified Cell phone Adapter Panel Power BOSE 11-06528 .
PA-87 Impedance Converter / GA to low Military 11-06529 .
PA-87 Impedance Converter / I eli to low Military 11-06530 .
PA-88 Impedance Converter Inter low MIL to 1 GA 11-06445 .
PA-88 Impedance Converter Low MIL to 1 Greece 11-06531 .
PA-90 Gauge Power Supply for Panel Power BOSE earset 11-03570 .
PA-905 Triple earset Adapter 11-03571 .
PA-906 earset Adapter for H-2222-1, -2H, -4 11-00685 .
PA-92 Single earset Adapter 11-03572 .
PA-93B GA to Bose earset Adapter 11-06533 .
PA-93R earset Adapter for Bose Plug Adapter 11-06602 .
PA-94 electrophone Ground Crew E tension Cable PT-97 11-06534 .
PA-95 earset Adapter for Vertraneceiver 11-03574 .
PA-96PC to GA Twin Plug earset Adapter 11-03575 .
PA-97 Airbus Plug to GA earset Adapter 11-06535 .
PA-98 Inline ephone Volume Control 11-06536 .
PA-99 Inline GA ephone Volume Control 11-06537 .
PA-100B Oxygen Mask Microphone Adapter For Bose Plug earset 11-06603 .

PC TO HEADSET ADAPTER
This adapter allows you to plug your standard aviation headset into your zpc while using flight simulator to feed sound into your headset with high fidelity and mic for high quality communication. Please specify software needed. Requires a 9V battery, not included. Great companion to our flight-sim set-up.

FOUR CONDUCTOR PHONE JACK

FIVE CONDUCTOR PHONE JACK
T-10S, 385/1, M642-22-01 Mates with series TP-105, -384/4, M642/14-01. Nickel plated beryllium copper contacts molded into a red plastic body.

AUDIO GOLD PLUG ADAPTER

JB-11LDS 1/8 stereo to .25 stereo plug, increases a 3.5mm plug to a .25 stereo plug. P/N 11-07246 .
JB-11LDM 1/8 mono to .25 stereo plug, increases a 3.5mm plug to a .25 mono plug. P/N 11-07247 .
JB-11LDS 1/8 stereo to 1/8 stereo plug, decreases a .25 plug to a 3.5mm stereo plug. P/N 11-07240 .
JB-11LDM 1/8 mono to 1/8 stereo plug, decreases a .25 plug to a 3.5mm mono plug. P/N 11-07241 .

FIVE CONDUCTOR PHONE PLUG
284 , TP-105, M642/14-01 Mates with series T-105 and T-125. One piece monel contacts integrally molded into red plastic body.

CABLE JUNCTION BOX
This product allows you to convert two cables into one. Size 1.5 x 1 .5 . Comes with 4 screws.

SIGTRONICS ADAPTER CABLES

PTT Switch intercom use with intercom........ P/N 11-02806 .
ephone Replace. Cable Stereo 3 ............... P/N 800029 .
ephone Replace. 3-16 Mono ........................ P/N 800034 .
ephone Replace. Col 3-6 Stereo................ P/N 800035 .
Mono ephone 5 Cord............................ P/N 800037 .
M-90 Electret Microphone ...................... P/N 800078 .
M-80 Electret Microphone ...................... P/N 800082 .
Converter STD Aviation Plug ................. P/N 900050 .
Converter Plug-STD Aviation ................. P/N 900051 .
Converter Plug-STD Aria-Coiled .............. P/N 900052 .
eadset 5 Straight Monaural..................... P/N 900053 .
eadset 5-6 Coiled Monaural GA Version .... P/N 900048 .
eadset 5 T-6 Coiled ephelion Versions ....... P/N 900055 .
Microphone Adapter............................ P/N 900056 .
ephone Monaural Adapter ...................... P/N 900057 .
ephone Stereo Adapter ........................ P/N 900058 .
ephone 5 Straight Monaural.................... P/N 900059 .
Microphone E tension Cable ................. P/N 900063 .
ephone 5 Straight Stereo....................... P/N 900060 .
Converter Plug to STD Avi Plug .............. P/N 900062 .
Convert to -5 to 174 Plug 18 ................ P/N 900063 .
Convert STD Plug to -75 ....................... P/N 900064 .
Convert to -75 Plug 18 ......................... P/N 900065 .

PUSH TO TALK SWITCH HOUSINGS

FRONT OF HOUSING SWITCH - oising provides a neat, clean mounting for PTT switches, made for P/N 11-02926. oising is 3/4 in length and has a base width of 1 . Machined from solid billet aluminum. Screws included with mounting instructions. Can also be used to mount any other switch control on the yoke. Color Red ACS 001 . P/N 11-04117 .

STANDARD HOUSING SWITCH REAR - Made for the American Standard switch P/N MSPF-101BCA. oising is 3/4 in length, has a base width of 1 . Machined from solid billet aluminum. Screws included with mounting instructions. Can also be used to mount any other switch control on the yoke. Color Black ACS 002 . P/N 11-04418 .

AWW PTT HOUSINGS - ows measure 1 inch in length, 1/2 in diameter with a mounting width of 1 . Mounts with 4 countersunk screws.

HOUSING FOR MICROMINI MOMENTARY SWITCH
P/N 11-07342 .