LEYS

PULLEYS







AN210A & AN210B (MS24566)

Anti-Friction Bearing Control Pulley with phenolic body and ball bearing with seal. The AN210A pulleys are dimensionally the same as the "B" pulleys but have metal-shielded bearings rather than removable composition-seal type bearings. The low allowable design load of the -3A and -3B pulleys-is based on cable fatigue. AN210-1A, AN210-3A, AN210-1B and AN210-3B shall not be installed on frequently used aircraft controls to bend the cable more than 15° from a straight line.

MS20220 (AN220) Flight Control Pulley with phenolic body and ball bearing with seal. Also available with aluminum body (MS20220A). The low allowable load limit of the -1 pulley is based on cable fatigue. When used on frequently used aircraft controls the cable wap angle should not be more than 15° from a straight line. MS20219 (AN219) Aircraft Secondary Control Pulley with phenolic

body and ball bearing with seal. MS20219A (AN219A) Pulley with anod-ized aluminum body and ball bearing with seal. The aluminum body is recommended for -1 and -3 pulleys. The -1 pulley shall not be installed in flight control systems. Examples of Part No.:

Phenolic Body - MS20219-1

Aluminum Body - MS20219A1 NAS383 Series Pulley with phenolic body and graphite impregnated

bronze sleeve. This is a low cost pulley widely used in aircraft, winches, cranes and remote mechanical actuation devices. A-223 and A-224 Pulleys with plain phenolic bore are used as guide

and secondary control pulleys in production aircraft.

BB-128-1 and BB-120-1 Pulleys have high pressure phenolic bodies and ball bearings with Teflon seals. Used in Christavia and many other aircraft.

SPECIAL PULLEYS



1-1/2 Inch Pulley

For smooth control operation. Manufactured for For smooth control operation. Manufactured for aircraft float rudder operation, the pulleys can be used in virtually any application. Solid UHMW plastic for use in tough, caustic environments. Bushing insert is stainless steel with minimum lubrication required. Used with 1/16" thru 1/8" -7x7 or 7x19 control cable. Bushing is clamped in pulley bracket. Pulley rotates on bushing. Pulley: 1-1/2" dia. x .283" wide. Bushing: 1/4" O.D. x 3/16" I.D. x .328" long. Weight: 26 oz (including stainless bushing) _______P/N 05-29725 ea.

.26 oz. (including stainless bushing)......P/N 05-29725 ea. 2 Inch Pulley

Larger cables, bigger job? Wherever you need a tough, durable pulley, look no further. Replace your old worn out, sticky pulleys with NAP UHMW plastic for smooth control operation. Used with 3/32" thru 3/16" -7x7 or 7x19 control cable. Bushing insert is stainless steel with minimum lubrication required. Bushing is clamped in pulley bracket. Pulley rotates on bushing. Fits DeHavilland Beaver floats Pulley: 2" dia. x .470" wide.



Fig.	Ref. #	Description	0.D.	I.D.	Part No.	Price
1	41171-000	Pulley, trimcrank with bushing (fiber)	2 3/4"	3/8"	05-02636	
1a	40991-000	Pulley (no slot)	2 3/4"	3/8"	05-02637	
2	41001-008	Pulley w/ bearing (fiber)(41001-010)	2 3/4"	5/16"	05-02638	
3	80421-000	Pulley (fiber)	1 3/4"	1/4"	05-02639	
4	481-609	Pulley (fiber)	1 1/2"	1/4"	05-02640	
5	11200-000	Pulley (fiber)	1 1/8"	1/4"	05-02641	
6	43001-000	Pulley (fiber)	1"	1/4"	05-02642	
7	43061-000	Pulley, stabilizer screw (aluminum)	2 3/4"	3/8"	05-02643	
8	12983-000	Pulley, double groove (aluminum)	2 3/4"	3/8"	05-02644	
9	10080-000	Pulley, trimcrank (aluminum)	2 3/4"	3/8"	05-02645	
10	11008-000	Pulley, adj. screw(alum.) single groove	4"	3/8"	05-02646	
11	12982-000	Pulley, adj. screw (alum.) dbl. groove	4"	3/8"	05-02647	

AIRCRAFT PULLEY OIL

Save the labor of re-oiling the control system every year! Aircraft pulley oil prevents pulley drag and stickiness. Pully Oil Pint.......P/N 05-04178 Pully Oil Kit - Includes: 1 Pint of Pulley Oil, 1 Needle, 1 Each 4.5" Extension, and 1 Each 8" Extension P/N 05-04179

Pully Oiler Kit - Includes: 1 Needle oiler with oil, 1 each 4.5" extension & 1 each 8" extension

P/N 05-04180

ALUMINUM PULLEYS

Dimensions of these aluminum pulleys are same as equivalent size of MS20219 and MS20220 Phenolic Pullevs in table.

Part No	Cable Size (in).	OD	Groove Dia	Hub Dia.	Bore Dia.	Width	Price Each
MS20219A1	1/16, 3/32	1.312	1.00	.423	.2500	.438	
MS20219A3	1/16, 3/32	1.750	1.438	.769	.6250	.438	
MS20220A1	1/8, 5/32, 3/16	1.755	1.255	.475	.3125	.625	
MS20220A2	1/8, 5/32, 3/16	3.005	2.505	.115	.3125	.625	
MS20220A3	1/8, 5/32, 3/16	4.255	3.755	.115	.3125	.625	
MS20220A4	1/8, 5/32, 3/16	5.505	5.005	.115	.3125	.625	

PHENOLIC PULLEYS

Part Number	Cable Size (In.)	OD	Groove Dia	Hub Dia.	Bore Dia.	Width	Load Limit (Lbs.)	Price Each
MS24566-1B	1/16,5/64,3/32	1.250	.972	.625	.1900	.297	300	-
MS24566-2B	1/16,5/64,3/32	2.500	2.222	.777	.1900	.297	500	
MS24566-3B	1/8,5/32,3/16	2.000	1.510	.901	.2500	.484	600	
MS24566-4B	1/8,5/32,3/16	3.500	3.010	.901	.2500	.484	1200	
MS20219-1	1/16, 3/32	1.312	1.000	.423	.2500	.438	480	
MS20219-2	1/16,3/32	1.750	1.438	.423	.2500	.438	480	
MS20219-3	1/16, 3/32	1.750	1.438	.769	.6250	.438	480	
MS20219-4	1/16, 3/32	2.625	2.312	.423	.2500	.438	920	
MS20220-1	1/8,5/32,3/16	1.755	1.255	.475	.3125	.625	500	
MS20220-2	1/8,5/32,3/16	3.005	2.505	.475	.3125	.625	1680	
MS20220-3	1/8,5/32,3/16	4.255	3.755	.475	.3125	.625	2500	
MS20220-4	1/8,5/32,3/16	5.505	5.005	.475	.3125	.625	2500	
A-223	1/16,3/32,1/8	1.000	.688		.2500	.281		
A-224	1/16,3/32,1/8	1.750	1.375		.2500	.250		
A-138 (NAS)	1/16,3/32,1/8	1.250	.875		.2500	.265		
A-123 (NAS)	1/16,3/32,	2.000	1.500		.2500	.265		
A-124 (NAS)	1/16, 3/32	2.500	2.000		.2500	.265		
A-130 (NAS)	1/8, 5/32	2.000	1.375		.3750	.438		
A-120 (NAS)	5/32, 3/16	3.000	2.375		.3750	.438		
BB-128	3/16	2.500	1.875		.2500	.440		
BB-120	3/16	3.000	2.375		.2500	.440		

MCS378 SERIES PULLEYS FOR CESSNAS



Aircraft Spruce stocks all pulleys required for Cessna single engine aircraft. Our MCS378 series pulleys replace the AN, NAS and S378 series pulleys commonly used on the Cessna aircraft. Pulley kits are available

that contain all of the pulleys and cotter pins required for one aircraft. **Approved Replacements for Cessna Pulleys -Cessna Model/Series** 120,140,140A,150,A150,A-A150,F150,FA150,FRA150,152,A152,F152,FA152,170 ,172,F172,FR172,172RG,FP172,P172,R172,175,177,177RG,F177RG,180,182,A1 N. F. 182, FR182, FR182, TR182, TR182, T82, T85, A185, 188, A188, A A188, T188, 205, 206, P 206, TU206, T206, U206, 207, T207, 208, 210, P 210, T210, T303, 310, T310, 320, 335, 336, 337, F337, P337, FP-337, T337, O-2, 340, 401, 402, 404, 411, 414, 4 21,425,441,500,501

*Replaces the listed Cessna part numbers in the specific aircraft illustrated parts catalogs. Installer must verify applicability prior to installation.

Model No.*	Replaces Cessna Part No.*	Part No.	Price
MCS378-1	S378-1 and S378-1L	05-03422	
MCS378-2	S378-2, A124, AN210-2B and NAS383-2	05-03423	
MCS378-3	S378-3, S378-3L, A130, AN210-3B, BB-208 and NAS383-3	05-03424	
MCS378-4	S378-4, A114, AN210-4B and NAS383-4	05-03425	
MCS378-5	S378-5	05-03426	



PULLEY KIT FOR CESSNAS This kit contain all pulleys and cotter pins required to replace all flight control system pulleys in one airplane. Fits many Cessna 172 models. See our website for eligibility list......P/N 05-11977