

AXLES - BRAKE VALVES

TAPER SHIMS

For wheel alignment. Ideal setting is zero toe-in and zero camber at normal operating weight. Shims may be rotated to any one of four positions to obtain desired result.



0441157-1

Axle Size	Shim Part No.	Approx. correction value	Price Each
		Camber	Toe-In
500x5	0441157-1	1/2°	0.06"
	0441157-3	1°	0.12"
	0441157-2	2°	0.006"
600x6	0441139-5	1/2°	0.12"
	0441139-6	1°	0.20-0.25"
	0541111-2	2-1/2°	0.10-0.25"

DIAL-A-DEGREE SHIM

For builders using a 600x6/500x5/GAC/Azusa bolt-on axle. The solution to most minor alignment issues (0 to 3° adjustment). This simple solution uses a pair of specially tapered discs that are mated and rotated in any combination needed to orient each axle to its correct alignment. Each 3" dia. disc is machined and laser-cut from aircraft grade 6061 T6 aluminum. A pair of discs is used on each side. FAA-PMA approved (BDS-101) Set of 4 discs.

P/N 06-00415 Ea.

CLEVELAND PARKING BRAKE VALVE

Aluminum valve as used in production aircraft with Model A-110 master cylinders for dual brake installations. Complete w/AN flare fittings. P/N 60-5



MATCO PARKING BRAKE VALVE

This versatile parking brake valve is ideal for installation in a wide variety of homebuilt aircraft applications. The arm actuates the valve in approximately a 45 degree arc allowing for ease of installation. In-line installation can be used in conjunction with either a single or dual parking brake system setup. Its uniquely simple design allows for easy maintenance and replacement of parts. The parking brake valve body is made from 6061 anodized aluminum for lasting durability. P/N 06-17200..... Ea.

MATCO SINGLE SIDED PARKING BRAKE VALVE

Light weight, and easy in-line installation. The overall dimensions of this product are a slim 2.3" X 0.75" X 0.75".

P/N 06-01267 Ea.

SCOTT PARKING BRAKE VALVE

A fine quality valve for applications in parking brake systems, helicopter rotor braking systems, pneumatic pressure controls and other hydraulic uses. Molded rubber valve seat designed for use with MIL-H-5606BB petroleum base hydraulic fluid. Maximum working pressure. Mounting holes extend through entire body. 1/8" NPT ports. P/N 4500-A1..... Ea.

MANUAL PARKING BRAKE VALVE

Miniature inline hydraulic manually operated ball valve. Fits in the bottom of the Master cylinder. Just pull the brake handle and hold the pressure and turn the lever on the ball valve. Let go of the handle and the ball valve holds the pressure until you release the lever back. 1/8"NPT Female x 1/8"NPT Male Chrome Plated Brass Valve 1.7" overall length. P/N 06-00971..... Ea.

GROVE INLINE PARKING BRAKE VALVE

Innovative design allows control lever to be attached in any of four positions as well as on either side of valve body. Internal poppet valves insure easy, secure operation. Body is drilled for mounting with two 3/16" bolts. Valve body dimensions: 1.5"x2.0"x0.75". Control arm has 45° of travel. Max operating pressure: 1,200 psi. For use with MIL-H-5606 Hydraulic Fluid. Weight: 0.32 lbs. Side or top inlet ports: 1/8"NPT * Outlet ports: 1/8" Female NPT or -4 Flare.

Part No.	Inlet	Outlet	Price
06-01260	Top	1/8" NPT	.....
06-01261	Side	1/8" NPT	.....
06-01262	Top	-4 Flare	.....
06-01263	Side	-4 Flare	.....

GOOSENECK HOSE COUPLING

Used on high pressure strut pump hose. High pressure connection with a swivel nut and female 1/8" NPT port on other end. P/N 06-11700 Ea.

Replacement Seal.....P/N SK2043-5 Ea.

STRUT VALVE

AN6287-1 strut valve for operating pressures up to 3000 PSI. Consists of a 3-piece stainless steel body, high-pressure valve core and MS20813-1B cap. P/N 06-00395..... Ea.

HIGH PRESSURE VALVE CORES

#2300HV (Long Type, Length 1-3/16") Operating pressure range 70-2000 PSI from -10° to 165°F. Conforms to AN809-1. P/N 06-00397..... Ea.
#9914A (Short Type, Length 7/8") Same operating range as #2300HV, but doesn't conform to AN809-1. P/N 06-00396..... Ea.

2525 VALVE CAP (MS20813-1B)

A heat-resisting cap designed to withstand high pressure conditions. Has special rubber sealing washer. P/N 2525..... Ea.

HOMEBUILDERS SPECIAL MAIN GEAR AXLES

AXLES - BOLT-ON TYPE



500X5 AXLE - Machined from 2024T3 aluminum. Gold anodized per specification MIL-A-8625C, Type II for improved corrosion resistance. Length 5-3/4". Mounting bolt pattern is four equally spaced 1/4" dia. holes on 1-15/16" dia. bolt circle. Thread size: 1-1/4 x 16. P/N 11701 Ea.

500X5 AXLE - For 199-152 heavy duty discs (as used in Cozy). Same as #11701 axles above except 6" long and without undercut between bearings. P/N 11701-2..... Ea.

SPACERS FOR 500 X 5 AXLE - 2 required per axle when used with Cleveland wheels. Not required on 600x6 size. P/N 11716 Ea.

EXTRA WIDE SPACER FOR 500X5 AXLE - 7/16" wide as used on 199-152 heavy duty discs. 1 required per axle with P/N 11716 (Use Axle # 11701-2) P/N 11716-2..... Ea.

600X6 AXLE - Similar to 500 x 5 size but 1-1/2" dia. x 6-1/4" long. Two 5/16" dia. and two 3/8" dia. mounting holes on 2-1/4" dia. bolt circle. Thread size: 1-1/2 x 16. P/N 11702 Ea.

AXLES - WELD-ON TYPE

500 X 5 AXLE - For use on welded type gear. Fabricated from 1-1/4" O.D. x .120 wall 4130N steel tubing. Precision ground for proper bearing fit. One end threaded 1-1/4 x 12 for round axle nut. 12" long. P/N 11703-1 Ea.

600 X 6 AXLE - For use on welded type gear. Fabricated from 1-1/2" O.D. x .120 wall 4130N steel tubing. Precision ground for proper bearing fit. One end threaded 1-1/2 x 16 for round axle nut. 12" long. P/N 11704-1 Ea.

STEEL CESSNA AXLES

For use on flat spring landing gear, Cessna models 170, 172, 180, 182, 185 and 206. It is highly recommended to replace aluminum axles with these much stronger steel axles when operating on rough conditions, with larger wheels or on skis. FAA-PMA approved. P/N 05-00481..... Ea.

COZY LANDING GEAR STUD - a custom fabricated 4140 steel heat treated shaft with rolled 1/2-20 threads on both ends Used a gear attachment on Cozy Mark IV. 10.75"L. 2 required. P/N 01-00254 Ea.

PIPER COMANCHE LANDING GEAR BUNGEE CORD INSTALLATION/REMOVAL TOOL

This tool allows for safe, simple, & quick bungee replacements on all Piper Comanches. Requires no dangerous levers, jacks, or vices, & does not subject the bungee cord to damage. Detailed instructions included. Bungee Cord Installation/Removal Tool..... P/N 12-00912 Ea.
Open End Ratchet for use w/Bungee Tool P/N 12-00913 Ea.

AXLE NUTS

Castle type nuts manufactured to MIL Specification MS21025 using 4140 steel. Mild steel nuts are not acceptable for use on certificated aircraft. 1-1/4" dia. nuts for 500 x 5 axles, 1-1/2" dia. nuts for 600 x 6 axles.

	Nut Type	Thread	Axle Type	Part No.	Price
Matco	Castle	5/8-18	Matco	06-11815	.....
---	Castle	1-1/4-16	Cessna	06-11800	.....
---	Castle	1-1/2-16	Cessna	06-11900	.....
ACS	Round	1-1/4-12	Piper	11725	.....
ACS	Round	1-1/2-16	Piper	11726	.....
Grove	Round	1-1/4-12	Piper	06-00937	.....

HOMEBUILDERS AXLE NUTS - These 1-1/4" - 16 Castle axle nuts are similar in size & design to pn 06-11800 and are for homebuilts only. Used on Cozy and many other designs. PN 01-00814..... Ea.

AIRCRAFT TIRE VALVE CORE

#6035 (38-830)(Short Type) Operating pressure range 0-400 PSI from -65° to 350°F. P/N 6035 Ea.

GROVE AXLES

For 500X5 Wheels w/Wheel Pant Stub - • Diameter: 1.25" • Material: Solid 2024-T3 aluminum w/anodized finish • Hole Pattern: 1-15/16" bolt circle; 1/4" dia. holes. Requires (2) P/N5710 spacers per axle. P/N 06-00601 Ea.
For 600X6 Wheels w/Wheel Pant Stub - • Diameter: 1.5" • Material: Solid 2024-T3 aluminum w/anodized finish • Hole Pattern: 2.25" bolt circle; (2) 2-15/16" dia. bolt holes & (2) 2-3/8" dia. bolt holes. P/N 06-00602 Ea.

RUDDER PEDAL RETURN SPRINGS

P/N 01-27300 Ea.

LG