TANDEM MASTER CYLINDER WITH REMOTE RESERVOIRS
SPECIFICATION SHEET • INSTRUCTIONS

Master Cylinder Part Numbers
260-14241-P/-BK • 260-14242-P/-BK • 260-14243-P/-BK • 260-14244-P/-BK
260-14388-P/BK • 260-14389-P/-BK • 260-16055-P/-BK • 260-16056-P/-BK
260-16057-P/-BK • 260-16058-P/-BK

Component Specifications
Piston / Bore Diameter 7/8, 15/16, 1 and 1-1/8 inches
Piston Stroke / Push Rod Travel 1.12 inches
Volume Output Ratio (A/B) 2:1
Pressure Output Ratio (A/B) 50 / 50
Remote Reservoir Capacity 7.0 ounces each

WARNING
IT IS THE RESPONSIBILITY OF THE PERSON INSTALLING ANY BRAKE COMPONENT OR KIT TO DETERMINE THE SUITABILITY OF THE COMPONENT OR KIT FOR THAT PARTICULAR APPLICATION. IF YOU ARE NOT SURE HOW TO SAFELY USE THIS BRAKE COMPONENT OR KIT, YOU SHOULD NOT INSTALL OR USE IT. DO NOT ASSUME ANYTHING. IMPROPERLY INSTALLED OR MAINTAINED BRAKES ARE DANGEROUS. IF YOU ARE NOT SURE, GET HELP OR RETURN THE PRODUCT. YOU MAY OBTAIN ADDITIONAL INFORMATION AND TECHNICAL SUPPORT BY CALLING WILWOOD AT (805) 388-1188, OR VISIT OUR WEB SITE AT WWW.WILWOOD.COM. USE OF WILWOOD TECHNICAL SUPPORT DOES NOT GUARANTEE PROPER INSTALLATION. YOU, OR THE PERSON WHO DOES THE INSTALLATION MUST KNOW HOW TO PROPERLY USE THIS PRODUCT. IT IS NOT POSSIBLE OVER THE PHONE TO UNDERSTAND OR FORESEE ALL THE ISSUES THAT MIGHT ARISE IN YOUR INSTALLATION.

RACING EQUIPMENT AND BRAKES MUST BE MAINTAINED AND SHOULD BE CHECKED REGULARLY FOR FATIGUE, DAMAGE, AND WEAR.

Installation Notes and Precautions

• WARNING:

The master cylinder push rod must bottom out in the bore before the pedal stops against the floorboard. The inherent safety feature of tandem master cylinders is the ability to still build pressure in one circuit if the other fails. In the event of a circuit failure, the push rod (and pedal) may travel 50% - 80% of the total stroke before starting to build pressure in the other circuit, allowing emergency braking to stop the vehicle.

To take advantage of this safety feature, before adding brake fluid to the system, assure that the push rod will travel its full stroke (1.10") before the pedal stops against the floorboard (with insulation, padding, and carpet) or any other stop point. If not, adjustments need to be made to the pushrod, pedal, and/or pedal mount to allow full push rod travel.

This master cylinder may not work in all applications and it is the installer’s responsibility to determine suitability and assure full push rod travel.

• Check the length and diameter of the push rod from the pedal or power booster. It should fully engage the bottom of the recess in the master cylinder piston assembly without interference along the sides or shoulders. For short push rod power brake boosters, use the spacer supplied to reduce the overall depth of the piston recess. The piston detail diagram on page 2 illustrates the overall depth and diameter of the push-rod recess.

• When the pedal is released, the piston assembly must fully return to the snap-ring retainer at the end of the cylinder bore. Consequently, the push rod must be long enough to remain captured inside the piston recess when the pedal is fully retracted. Adjust the length of the push rod and available pedal travel as necessary. Return springs and pedal stops are always recommended.

• Always mount the master cylinder to a secure, reinforced element of the chassis. There should be no movement or deflection at the mount point when brake pedal pressure is applied.

WARNING
THIS COMPONENT IS DESIGNED FOR USE IN CUSTOM BRAKE SYSTEMS ON PERFORMANCE, RACING, AND OTHER SPECIAL PURPOSE BUILT OFF-ROAD VEHICLES. IT IS NOT INTENDED AS A DIRECT REPLACEMENT FOR ANY OEM APPLICATION.
• Prior to attaching the fluid lines, fill the reservoirs with Wilwood fluid from a new, sealed container and purge any air from the master cylinder. Be sure the cylinder is level during the bleeding operation. If the cylinder is not level when mounted in the vehicle, you can perform this operation prior to attaching the master cylinder to its mount. The diagram on page 1 illustrates one method of recycling the fluid into the reservoir until all air has been eliminated. Exercise care to not spill or spray brake fluid. Take all proper safety precautions including eye and skin protection and do not position your face directly above the reservoir. This process will assure a quick and effective full system bleed later.

• Once all fluid connections have been made, the complete system must be bled and checked for leaks prior to any test of the vehicle.

Plumbing Notes and Precautions

• Each master cylinder kit includes one 9/16-18, one 1/2-20, and two 3/8-24 inverted flare threaded line adapters for connections to the brake lines (Adapters are not installed and are shipped in the master cylinder kit). Two hex head plugs are supplied to block the unused outlet ports. Pressure may be taken from either side of the master cylinder. After selecting the size and location of the outlet ports to be used, lubricate adapter fitting threads lightly with silicone or lithium based grease, then install the fittings and plugs, using the aluminum crush washers and torque each to 20-25 foot pounds.

• The line adapters supplied with each master cylinder are for use with double flared brake line. Use only double flared lines. Do not attempt to use single flared connections. Do not use additional sealant or any other type of gaskets on the fittings, lines, or plugs.

• Connect one of the primary outlet ports (A) to the brakes at the end of the vehicle with the greatest total effective piston bore area. On most vehicles, this will be the front brake line (see note next page).

• Connect one of the secondary outlet ports (B) to the brakes at the end of the vehicle with the lesser total effective piston bore area. On most vehicles, this will be the rear brake line (see note next page).

• Use of reinforced flexible lines should be limited to the connection between the fixed chassis and the moving suspension. All other lines along the fixed chassis should be hard steel lines.

• On four wheel disc brake applications, where the fluid reservoir is mounted higher than the caliper bleed screws, a residual pressure valve is usually not required.

• On disc brake applications where the fluid reservoir is mounted lower than the caliper bleed screws may require a 2 pound residual pressure valve. This can prevent fluid drain back and excessive pedal travel on initial engagement.
• All drum brake applications require an inline 10 pound residual pressure valve.

• Use an adjustable proportioning valve to set the front to rear brake bias.

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**WARNING • DO NOT DRIVE ON UNTESTED BRAKES**

**BRAKES MUST BE TESTED AFTER INSTALLATION OR MAINTENANCE**

**MINIMUM TEST PROCEDURE**

• Make sure pedal is firm: Hold firm pressure on pedal for several minutes, it should remain in position without sinking. If pedal sinks toward floor, check system for fluid leaks. DO NOT drive vehicle if pedal does not stay firm or can be pushed to the floor with normal pressure.

• At very low speed (2-5 mph) apply brakes hard several times while turning steering from full left to full right, repeat several times. Remove the wheels and check that components are not touching, rubbing, or leaking.

• Carefully examine all brake components, brake lines, and fittings for leaks and interference.

• Make sure there is no interference with wheels or suspension components.

• Drive vehicle at low speed (15-20 mph) making moderate and hard stops. Brakes should feel normal and positive. Again check for leaks and interference.

• Always test vehicle in a safe place where there is no danger to (or from) other people or vehicles.

• Always wear seat belts and make use of all safety equipment.