

900-Series Pivot-type Balance Bar Assembly

DESCRIPTION

These instructions are directed toward the use of this balance bar with Tilton pivot-mount brake pedals. Other applications of this product might require modifications and adjustments that are not mentioned.

MASTER CYLINDER AND PEDAL ASSEMBLY INSTALLATION

1. Select the brake pedal motion ratio (6.25:1, 5.37:1, 4.70:1). They are marked on the balance bar mount. Make sure that the balance bar mount is firmly against the back face of the brake pedal and tighten the two fasteners to **72 in-lbs**.
3. The balance bar clevises are of two different lengths. The longer clevis is used with the master cylinder for the front brakes. If you wish to reverse the position of the clevises do it now.
4. Set the center-to-center distance on the two balance bar clevises at **2.60"**. A good place to start is with both clevises equally spaced from the pedal (middle balance bar position).
5. Remove the long bolt that mounts the three master cylinders. Remove the four master cylinder spacers from the frame.
6. Reinstall the two center master cylinder spacers in the frame. A small amount of RTV will keep the spacers in place during assembly.
7. It is best to install the master cylinders on the pedal assembly before placing the assembly in the car. Reinstall the mounting bolt through the three master cylinders, and tighten the nut to 120 in-lbs.
8. Thread the three pushrods in the clevises eight revolutions. This will be .333". Final pedal position adjustment will be made later.
9. Since the brake pushrods are threaded equal amounts and the clevises have two different lengths, the balance bar will be at a 5° angle. This is by design and will be addressed in the **Pedal Positioning** section below.
10. Mount the pedal assembly into the car. Use of high strength fasteners and safety wire for the four mounting bolts is recommended.



PEDAL POSITIONING

1. Thread the clutch master cylinder pushrod in until the desired pedal height is achieved.
Keep at least .300" of pushrod threaded into the clevis. Tighten the pushrod locking nut.
2. If your hydraulic release bearing requires the use of a positive stop, a bolt that threads into the back of the clutch pedal and a locking nut have been provided. You may need to use a bolt of a different length. See your hydraulic release bearing instructions for adjusting the pedal stop.
3. Adjust the brake pedal height by threading both brake master cylinder pushrods in or out of the clevises equal amounts. Keep at least .300" of pushrod threaded into the clevises. Tighten the two pushrod locknuts once the proper pedal position is achieved. The pushrod has two flats to accept a 5/16" wrench.
4. The front master cylinder will require more stroke to operate than the rear once the system has been bled. After bleeding, check to make sure the balance bar is parallel with the firewall when the brakes have been applied with the normal wheel locking force. If not, loosen the locknuts, readjust, and retighten the locknuts.

BALANCE BAR ADJUSTMENT

Fixed position - If a remote adjuster will not be used remove the set screw in the right end of the balance bar and snug the balance bar locking nut up against the right clevis pivot. *Only one locking nut is required.*

Remote Cable Adjuster - The right end of the balance bar has been drilled to accept the remote adjuster cable directly. No coupler is required. Slip the end of the cable into the end of the balance bar and tighten the setscrew.

Right Angle Adjuster - To solve cable routing problems use right angle adjuster part number 72-561. This is a small protected bevel gear drive unit that will allow the cable to approach the balance bar at a 90 degree angle.

DIMENSION INFORMATION

