BALANCE BAR ADJUSTING

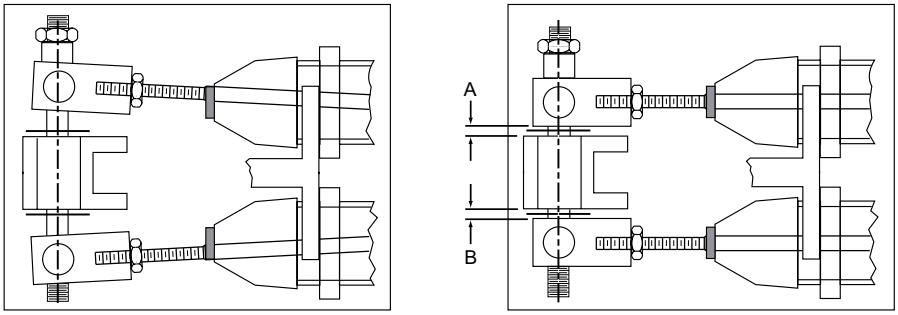
TUNING A BALANCE BAR

The balance bar is an adjustable lever (usually a threaded rod), that pivots on a spherical bearing and uses two separate master cylinders for the front and rear brakes. Most balance bars are part of a pedal assembly that provides a mounting location for the master cylinders. When the balance bar is centered, it pushes equally on both master cylinders creating equal pressure when they both have the same size bore. When adjusted as far as possible toward one master cylinder it will push approximately twice as hard on that cylinder as the other.

To set up the balance bar, thread the master cylinder pushrods through their respective clevises to obtain the desired position. Threading one pushrod into its respective clevis means threading the other one out the same amount. Sometimes this will lead to a "cocked" balance bar when the pedal is in the relaxed position, (see picture "No pedal effort"). This is acceptable as long as each master cylinder pushrod is completely free of pressure when the pedal is relaxed.

Note: The pushrod adjustment depicted in the figure is representative of a typical asphalt application. That is, large caliper pistons in front, small caliper pistons in the rear.

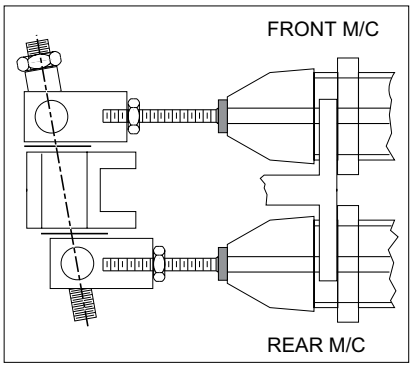
SETUP VIDEO



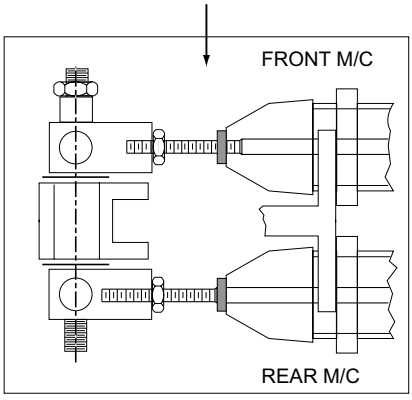
INCORRECT PUSH ROD ALIGNMENT

PROPER ALIGNMENT

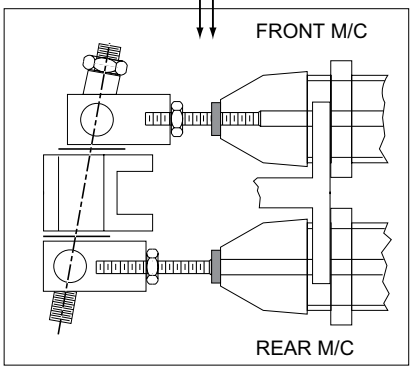
DIMENSION A + B ADDED TOGETHER MUST BE IN THE .20" - .25" RANGE



NO PEDAL EFFORT



MODERATE PEDAL EFFORT



HEAVY PEDAL EFFORT

