



## HAYS CLUTCH PEDAL HEIGHT ADJUSTMENT VALVE INSTRUCTIONS

### 82-109 & 82-110



THIS WILL ALLOW YOU TO CONTROL THE PEDAL POSITION OF YOUR CLUTCH ENGAGEMENT AS WELL AS THE OVERALL TRAVEL OF THE HYDRAULIC SYSTEM. **KEEP IN MIND THAT THIS SYSTEM WILL NOT INCREASE TRAVEL, ONLY LIMIT IT.** IF YOU ARE USING THIS ADJUSTER WITH A FACTORY HYDRAULIC SLAVE, ADAPTERS MAY BE REQUIRED TO COMPLETE THE INSTALL.

#### GENERAL INSTRUCTIONS

- Install the included tee fitting into the adjuster housing. USE PTFE TAPE TO INSTALL THIS FITTING. DO NOT USE LIQUID PIPE SEALANTS, LOCTITE, OR ANY OTHER MATERIAL.
- Determine where you will install the valve. It can be located anywhere in the hydraulic feed line between the release bearing inlet and the master cylinder. For ease of adjustment, we recommend installing it near the master cylinder.
- Connect one end of the hydraulic feed line from the slave/bearing to one side of the adjuster valve. Connect the included 12 inch line to the other side.
- Connect the 12 inch line to the master cylinder or opposite side of the feed line from where you connected the adjuster valve.
- Locate a suitable point to secure the valve and mount using zip ties.

#### USING THE ADJUSTMENT VALVE

- Prior to bleeding the system, loosen the lock down nut from the adjuster screw and turn the screw in clockwise all the way. Snug the lock down nut.
- Bleed the system normally.
- After bleeding, note the engagement position of the clutch pedal. Back the adjuster screw out a couple of turns and retighten the lock down nut. Test the pedal again, noting engagement point.
- Continue this operation until the desired release position is obtained. MAKE SURE you are still getting complete release of the clutch system.

## **USING THE ADJUSTMENT VALVE TO PRESET RELEASE BEARING TRAVEL**

- If you are completing a new installation with an aftermarket slave/bearing, you can use the valve to preset the bearing travel.
- Prepare the bearing install and hang the bearing under the vehicle that it is to be installed on. Hook up the lines and the valve and bleed the system as described above.
- Manually retract the hydraulic bearing, and then have someone cycle the pedal. Measure the amount of bearing travel you are achieving.
- Adjust the valve accordingly to achieve roughly .500" of total travel.

## **USING THE ADJUSTMENT VALVE 82-110 WITH FACTORY INTERNAL SLAVE CYLINDERS**

These kits include the hydraulic feed line and adapters to replace the factory feed line and install the pedal height adjuster.

- At the factory slave cylinder, remove either the quick connect clip or roll pin from the slave housing and disconnect the feed line.
- Install the appropriate adapter fitting from the kit into the slave and re-insert clip or roll pin.
- At the master cylinder, use the same procedure to remove the factory adapter and install the supplied adapter.
- Connect one end of the 36 inch feed line to the adapter at the slave cylinder. Route the line up to the master, keeping the line away from any high heat sources. If necessary, insulate the line with fire sleeve.
- Connect the opposite end of the 36" feed line to one side of the tee fitting on the adjuster valve. Connect the 12 inch line provided in the kit to the opposite side of the valve. Connect the opposite end of the 12 inch line to the adapter you installed in the master cylinder.
- Re-bleed the system and adjust the valve according to the instructions earlier in this sheet.

**Hays Technical Support:  
1-866-464-6553**