

# AOD Transbrake Installation Instructions

- 1- Drain transmission oil by removing the back pan bolts and work towards the front slowly
- 2- Remove the three filter bolts and 25 valve body attaching bolts and remove the valve body by pulling straight down. There are two different length valve body bolts. Note where the different length bolts are removed from.
- 3- Check to make sure all the valve body to case gasket is removed from the transmission case.
- 4- After old valve body is removed and surface area is clean, install short threaded end of studs into the transmission case at the positions indicated by the squares on the diagrams provided. These studs are used to align the valve body to the case and will be left in place.
- 5- Secure valve body case gasket using trans fluid or grease (NO SEALER) just enough to hold it in place while you install valve body onto studs and into the trans.
- 6- Install transbrake valve body into transmission carefully. You must engage selector lever into manual valve. Screw the 2 nuts on the alignment studs hand tight to hold the valve body in place.
- 7- Tighten the valve body bolts finger tight. Check for free operation of shifter linkage. Torque valve body bolts to 80-120 INCH LBS.
- 8- Install the filter reusing original square gasket (see figure C). Make sure the rubber grommet is installed into filter if it came out or stuck to the old valve body.
- 9- See Attachment "New AOD Transbrake Connections"
- 10- Place gasket on pan and hold assembly below transmission case. Connect the wire from the valve body to the connector. The solenoid closest to the bell housing (front of trans) operates the transbrake, the solenoid at the rear operates Overdrive.
- 11- Tighten pan bolts to 12-16 ft lbs.
- 12- Performance Automatic's PA53302 requires two switches (**NOT SUPPLIED**) to operate the valve body. A toggle switch is used to activate on and turn off Overdrive and a momentary switch is used for the trans brake and reverse. Locate a good 12 volt power source. Wire each switch to 12 volt source. Then wire from the switch to the respective connectors on the transmission connector.
- 13- Make sure all wiring is complete. The trans brake switch must be activated for the trans to go into reverse.**
- 14- With the wheels off the ground, add four quarts of Dexron III or Type F fluid to the transmission. Start the engine & put the gear selector in the neutral position. Check the fluid level and add until the dipstick reads full. Shift the transmission thru all gear positions five times. With the wheels stopped, check the transbrake with the wheels in the air.
- 15- Lower the car back onto the ground and run thru the gears another 4 or 5 times. Recheck the fluid and add if needed to bring fluid up to the filled line.

Note that now the transmission is fully manual and the Throttle Valve cable and lever are no longer used.

REMEMBER – The transbrake must not be engaged if the vehicle is moving! The transmission shift patten is now PRN321.

Once the transmission has been shifted into 3<sup>rd</sup>, the toggle switch for Overdrive can be switched on to activate Overdrive. Overdrive will stay on until the switch is turned off. If you leave the switch on, the transmission will shift directly to overdrive when shifted from 2<sup>nd</sup> to 3<sup>rd</sup>. Transmission durability can be compromised if this is done

