Instructions



# Oversized Pressure Regulator Valve

Part No.

33886-02

warning: Required oversized pressure regulator valve 33886-02 is no longer in production.

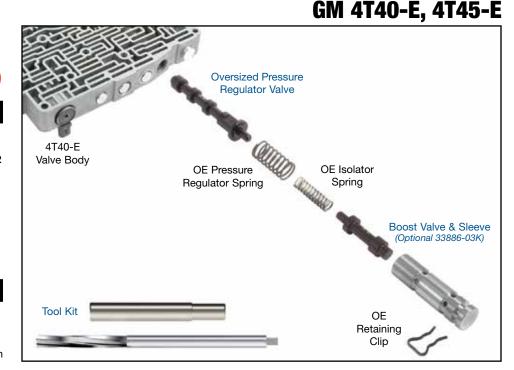
Check with your distributor for availability.

### **Tool Kit**

## Part No. 33886-TL2

- Reamer
- Reamer Jig
- Drill Bit

Not Shown



NOTE: Inspect separator plate to be installed for presence of pressure regulator balance orifice. If no orifice, modify plate per illustrations (Figure 1).

#### 1. Disassembly

- a. Remove all components from the bore and discard pressure regulator valve.
- b. Save OE pressure regulator and isolator springs as well as retaining clip for reuse.
- c. Save OE boost valve and sleeve for reuse or replace with Sonnax boost valve and sleeve.

#### 2. Bore Reaming

Ream pressure regulator bore (for reaming instructions/reamer care, please visit www.sonnax.com). Sonnax reaming tool kit **33886-TL2** is required for this operation.

- a. Clean bore thoroughly in solvent tank.
- b. Securely clamp housing to bench, do not clamp directly over bore to be reamed.
- c. Insert reamer jig into the bore.
- d. Soak bore and reamer with cutting fluid (Mobilmet S-122, Lubegard Bio-Tap, Tap Magic<sup>™</sup>, etc.). For best results, provide a continuous flow of water-soluble cutting fluid (i.e. Mobilmet S-122) during the reaming process.
- e. Gently insert reamer through jig and into bore until cutting tip contacts the first bore to be reamed.
- f. Select a 1/4" square drive socket and attach to a wobble/swivel socket drive.



#### TRANSMISSION PARTS

OVERSIZED PRESSURE REGULATOR VALVE 33886-02, 33886-TL2

Instructions

#### 2. Bore Reaming (continued)

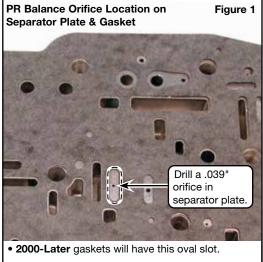
- g. The reamer should be turned either by hand using a speed handle or by a low rpm, high-torque air drill regulated to a maximum of 200 rpm.
- h. The reaming action should be clockwise in a smooth and continuous motion, at 60-200 rpm. The reamer should actually pull itself through the bore, so little or no forward force should be applied.
- i. Continue reaming until the reamer stop is reached. The approximate reaming time is 5 minutes.
- j. Using low air pressure, blow chips free before removing the reamer.
- k. To remove reamer, turn clockwise while slowly pulling outward on reamer.
- Remove any remaining debris from bore with low air pressure and clean in a solvent tank.
- m. Examine bore after cleaning for surface finish, debris and burrs. Flashing and burrs on the exit side of casting bores can be carefully removed with a small piece of Scotchbrite™ on the end of a long wire.
- n. Clean the reamer after each use and store in its protective tube.

#### 3. Installation & Assembly

- a. Be certain all debris has been removed from the valve bore and valve body.
- b. Install Sonnax valve.
- c. Reinstall OE pressure regulator and isolator springs.
- d. Reinstall OE or install Sonnax boost valve and sleeve assembly.
- e. Secure with OE retaining clip.
- f. If working on 2000-earlier models, modify separator plate and gasket (**Figure 1**). No modification is necessary for 2000-later models.



**NOTE:** Most gasket kits will have the oval hold cut out, in that case, only the separator plate will need to be drilled.



 2000-Earlier gaskets may NOT have this slot. This oval will have to be cut out of gasket. Then drill a .039"orifice in the separator plate in location shown.

