

Oversized TCC Apply Valve Kit

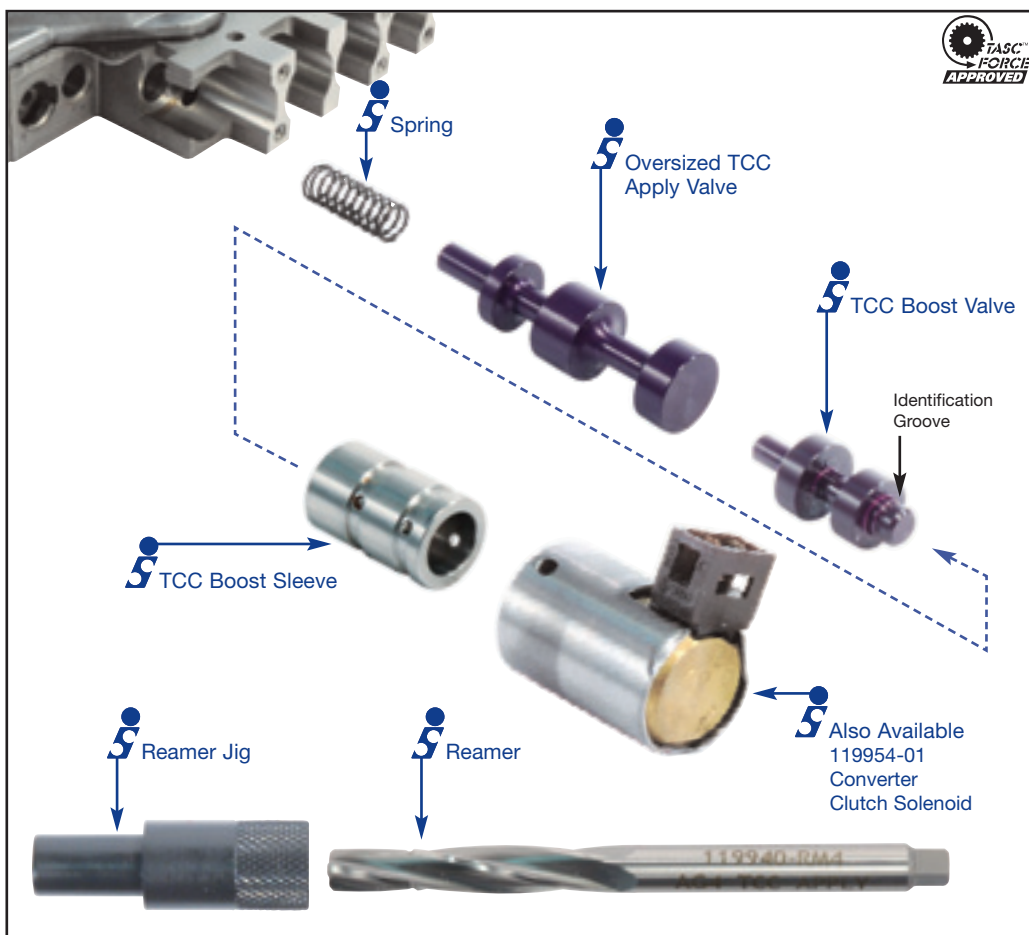
119940-04K

1 TCC Apply Valve
1 TCC Boost Assembly
1 Spring



119940-TL4

1 Reamer
1 Reamer Jig



Optional procedure for improving converter charge and reducing engine stall/stumble:

Engine stall on engagement can also be caused by low pump output and an OEM main pressure regulator that shuts off converter feed. Line at the main pressure regulator valve is regulated to exhaust long before the converter feed opens up. When pump volume is low and unable to keep the main pressure regulator shifted over to feed the converter, an engine stall can occur. This condition is worse when the fluid is hot, and is more common in heavier vehicles.

To eliminate this problem, turn a relief on the main regulator valve spool that feeds line to lube. Refer to the illustration for exact dimensions and location. This will allow the converter feed to open at low pump output. (See Figure 1.)

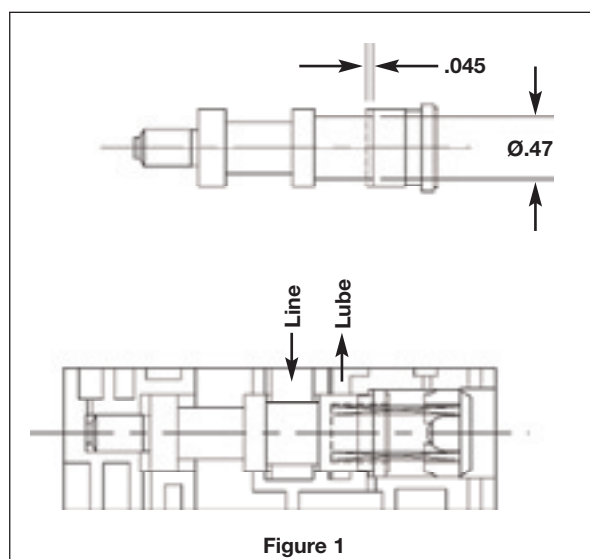


Figure 1

DISASSEMBLY STEPS:

1. Remove and retain the TCC solenoid.
2. Remove and discard the OEM TCC boost valve and sleeve, TCC apply valve, and spring.

REAMING INSTRUCTIONS:

1. Remove all components from the bore. Discard the TCC boost assembly, TCC apply valve and TCC apply spring.
2. Clean the valve body bore thoroughly in a solvent tank.
3. Securely clamp the valve body horizontally to the bench, making sure not to clamp directly over the bore to be reamed.
4. Soak the bore and reamer with cutting fluid (Tap Magic™, Mobilmet, etc.).
5. Place the reamer jig into the bore. Gently insert the reamer through the jig and into the bore until the cutting tip contacts the first bore to be reamed.
6. Turn the reamer clockwise, at 60-200 rpm in a smooth and continuous motion. The reamer should pull itself through the bore, so little or no back pressure on the reamer should be needed.
7. Continue reaming until the reamer bottoms in the bore. Approximate reaming time is 5 minutes.
8. Using low air pressure, blow the chips free prior to removing the reamer.
9. To remove the reamer, turn clockwise while slowly pulling outward on the reamer.
10. Remove any remaining debris from the bore with air pressure and clean in the solvent tank.

Reaming Cautions:

- Never turn the reamer backward. This will dull the reamer.
- Pushing on the reamer will result in poor surface finish, and inadequate and sporadic material removal.
- Never use a crescent wrench, ratchet or pliers to turn the reamer.
- Clean the reamer after each use and store in its protective tube.
- A dull reamer will cut a smaller hole. Reamers can be sharpened. Actual life of a reamer before resharpening averages 50 to 70 bores, and depends on oil and turning process. Take the reamer to a professional tool sharpener for resharpening.

INSTALLATION / ASSEMBLY STEPS:

1. Ream and clean the bore according to the reaming instructions.
2. Place the replacement spring over the stem of the oversized TCC apply valve, and install into the reamed bore, spring end first.
3. Insert the replacement TCC boost valve and sleeve assembly into the bore, using the photo as a reference for correct orientation.

NOTE: The replacement TCC boost valve and sleeve assembly **MUST** be used with the oversized TCC apply valve to maintain proper ratios and valve functions. For identification purposes, the replacement TCC boost valve has a groove on the outboard-facing end stem. Reusing the OEM assembly can result in TCC slippage, burn-up and complaints.