JATCO / NISSAN

PART NUMBER 113741-07, F-113741-TL7C

Oversized Pump Flow Control Valve

113741-07



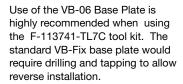
1 Oversized Pump Flow Control Valve

NOTE: Fits JF010E only

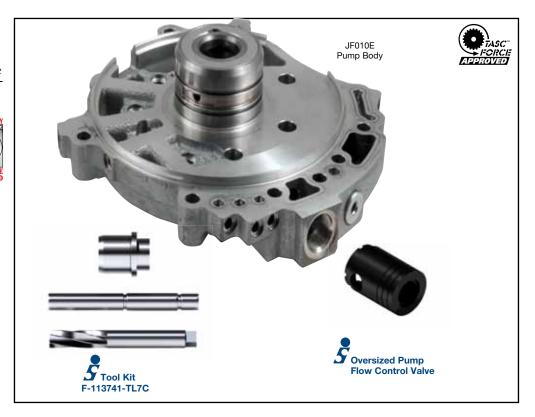
F-113741-TL7C

- 1 Carbide Reamer
- 1 Reamer Jig
- 1 Guide Pin





Sonnax "F" tool kits designed to service a specific bore require the VB-FIX, a self-aligning valve body reaming fixture. More information and instructions are available at www.sonnax.com.



Note:

Use of the VB-06 Base plate is highly recommended as the best way to mount the JF010E pump body onto the VB-Fix for reaming. To clamp the JF010E pump body onto the standard VB-Fix plate, the technician will need to drill and tap the standard plate so it can be mounted in reverse of its normal orientation.

Disassembly

- Remove and discard the OEM pump flow control valve.
- Keep the OEM threaded plug, spring cage and spring

Reaming Instructions

Prep & Setup:

- 1. Remove all components from the bore.
- 2. Clean the bore thoroughly in a solvent tank.
- 3. Align the pump body on the fixture according to the VB-FIX instructions:

Important Note: Once alignment is complete, do not loosen wing nuts or unclamp the pump body from fixture until entire reaming process is completed.

- 4. We strongly recommend a continuous flow of reaming fluid to remove chips, improve bore finish and extend reamer life. Two water soluble reaming fluids are Mobilmet S-122 and Lubegard 80903. Lubegard Bio-Tap is another alternative.
- 5. Gently insert the reamer through the jig and into the bore until the cutting tip contacts the first bore to be reamed.
- 6. Select the correct sized socket to fit the square shank of the reamer, and attach it to a swivel socket drive.



113741-07 Rev:- F113741-TL7C Rev:-. 113741-07-IN 07-20-10

©2010 Sonnax Industries, Inc.

JATCO / NISSAN CVT

PART NUMBER 113741-07, F-113741-TL7C

Reaming:

(We recommend you review the Sonnax reaming DVD or go the Sonnax website for a video preview of reaming.)

- 1. The reamer should be turned by a low rpm, high torque air drill regulated to a maximum of 200 rpm or by hand using a speed handle.
- 2. 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.
- 3. Continue reaming until the reamer bottoms in the bore.

FINISH AND CLEAN-UP:

- 1. Using low air pressure, blow the chips free before removing the reamer.
- 2. To remove the reamer, turn clockwise while slowly pulling outward on the reamer.
- 3. Remove any remaining debris from the bore with low air pressure and clean in a solvent tank.
- 4. Examine the bore after cleaning for surface finish, debris, and, burrs. Flashing and burrs on the exit side of the casting bores can be carefully removed with a piece of Scotchbrite on the end of a long wire.
- 5. Clean the reamer after each use and store in its protective tube.

CAUTIONS AND SUGGESTIONS:

- 1. Turning the reamer backward will dull it prematurely.
- 2. Pushing on the reamer will result in a poor surface finish and inadequate and sporadic material removal. The leading cutting edge will hold material if inward force and turning speed are incorrect. If a burr occurs, remove it by drawing a tool along the edge of the flute from the rear of the tool toward the tip.
- 3. Never use a crescent wrench, ratchet or pliers to turn the reamer.
- 4. A dull reamer will cut a smaller hole. Reamers can be sharpened, but should only be done by a professional machine tool sharpener.

INSTALLATION / ASSEMBLY STEPS:

- 1. Be certain all debris has been removed from the valve bores and pump body.
- 2. Install the Sonnax OS pump flow control valve followed by the OE spring, the OE cage/spacer and the threaded end plug.

FINAL VERIFICATION STEPS:

Vacuum testing at indicated test point indicates 14 in-Hg or greater.



