

Solenoid Regulator Valve Kit

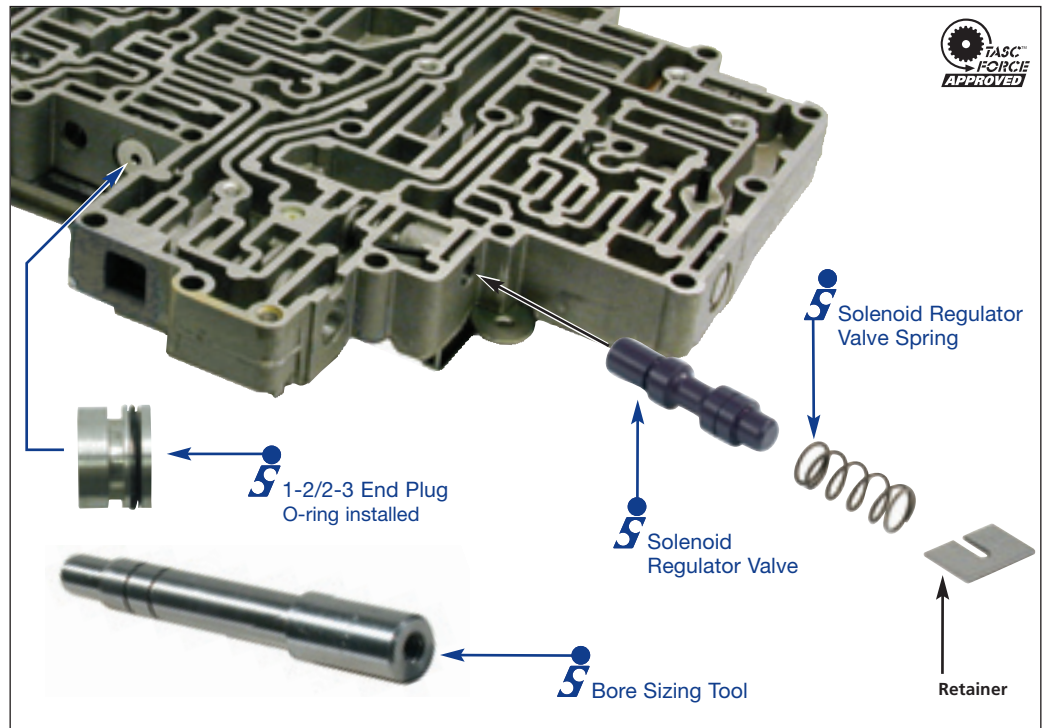
76948-14K

1 Valve
1 Spring
1 End Plug
2 O-Rings (1 extra)

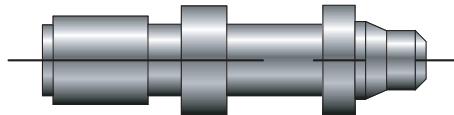


76948-BST2

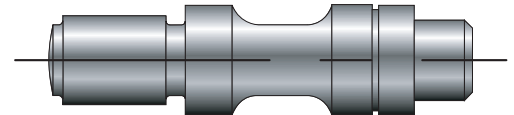
1 Bore Sizing Tool



OEM Valve



Sonnax Valve



Solenoid Regulator Valve Bore Wear Test

1. With the valve in the idle/rest position, place a small amount of oil into the balance port (see illustration on following page). Follow with low air pressure. There should be little or no oil/air leakage past the valve spool and out the neighboring exhaust port.
2. Block the valve into the regulating position with a screwdriver or .134" diameter pin at the balance port. Make sure valve spool closes the V-notch at the casting port. Place a small amount of oil into the line port and follow with low air pressure. There should be little or no oil/air leakage past the valves spools and out the front exhaust port or SOLP (solenoid pressure) port.
3. To check for a sticking valve, remove the clip and spring from the valve body. Pull the valve to the end of its stroke, reinsert, rotate 90 degrees, and then pull outward. Repeat this procedure 2-3 times. A sticking valve will hang up or seize in the bore when rotated and stroked.

Bore Sizing Instructions

1. Insert the end of the bore sizing tool into the solenoid regulator bore (see illustration on following page). Press it into the bore until it bottoms. A 1/4-20 UNC tapped hole is provided in the tool to adapt to a puller or slide hammer, if needed.

AODE, 4R70W

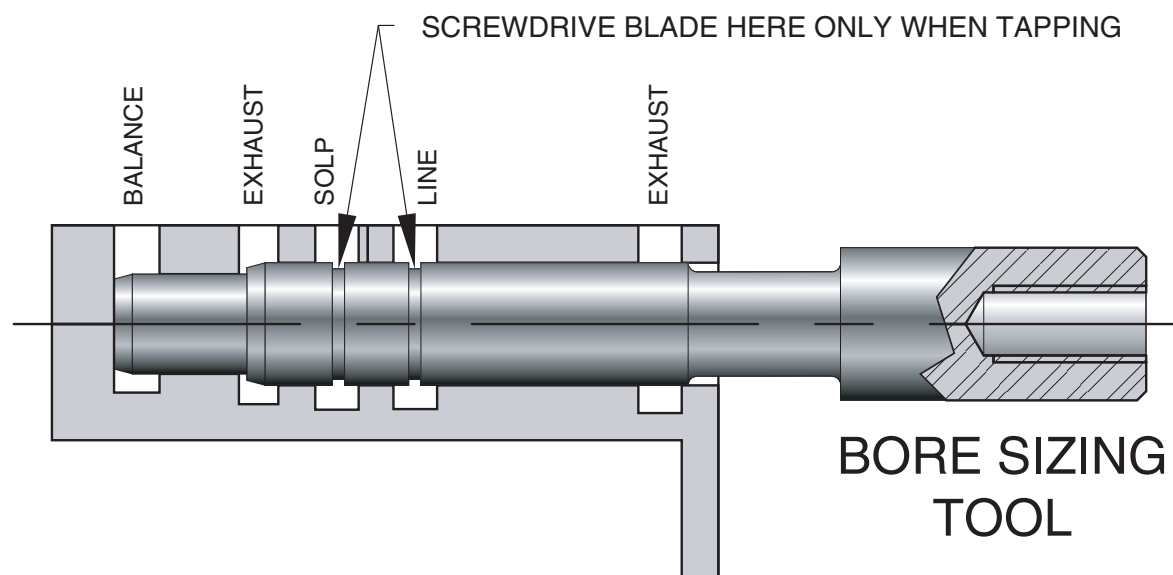
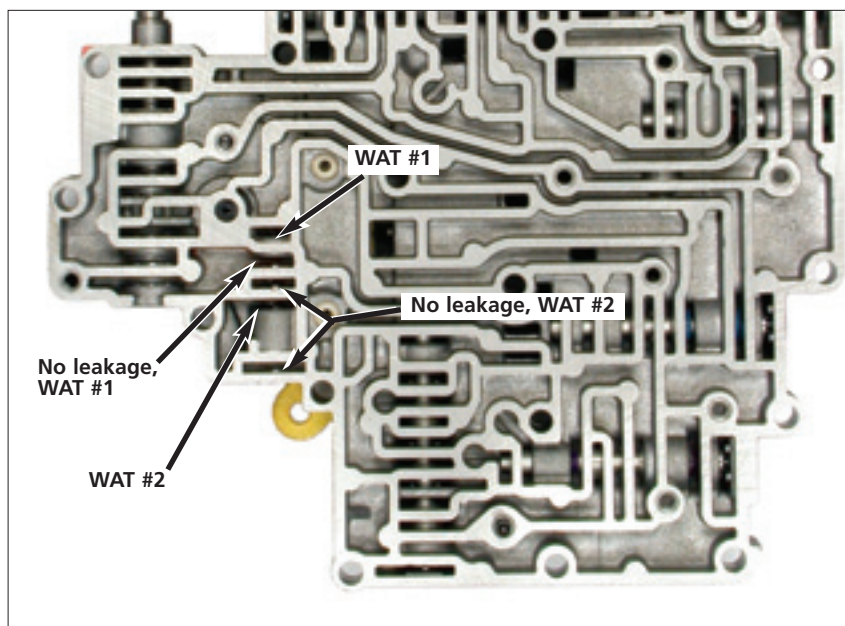
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PART NUMBER 76948-14K, -BST2

2. Remove the bore sizing tool and check to see if the replacement valve moves freely within the bore.
3. If the valve does not move freely, reinstall the bore sizing tool and tap the sizing tool up and down using a hammer and screwdriver as shown. This will smooth out any ridges in the bore. Repeat process until the valve strokes freely.

Solenoid Regulator Valve Installation Instructions

1. Push the valve into the bore with longer end of spool pointing in.
2. Place the replacement spring over the outboard valve stem and compress in the bore with screwdriver.
3. Reinstall the OEM retainer.
4. Stroke the valve several time to verify it moves freely. Resize bore if needed.



1-2/2-3 Shift Valve End Plug Installation Instructions

1. If valve is not going to be removed, hold/wedge the valve inward with a small flatblade screwdriver to keep the valve in place.
2. Remove the original plug from the bore and discard. Save the retaining clip.
3. Install o-ring into the outer groove of the Sonnax plug. Pre-lube with assembly lube (kit includes one extra o-ring).
4. Rotate the end plug during install, and push into bore with tapped hole facing out, just enough to return the retaining clip. The 8-32 UNC tapped hole may be used to assist in plug installation and removal.