

# Pressure Modifier Valve

**74846-04**

1 Oversized Pressure  
Modifier Valve

**74846-TL4**

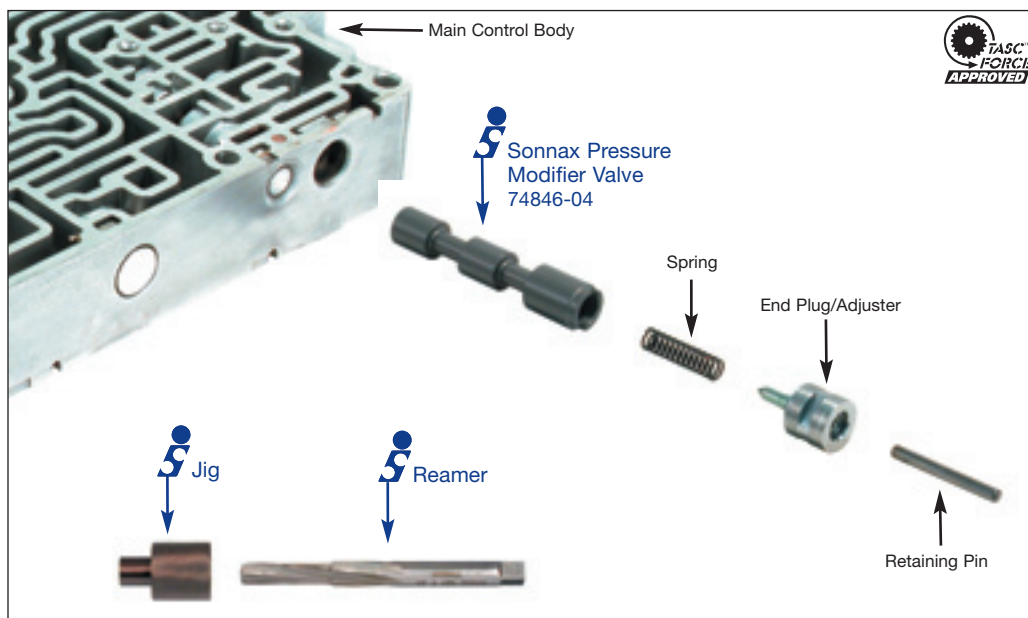
1 Reamer  
1 Reamer Jig

Also available

**74846-01K** GF4A-EL, F4A-EL & F4EAT  
Boost Valve Kit

**74846-05**

GF4A-EL, G4A-EL, G4A-HL

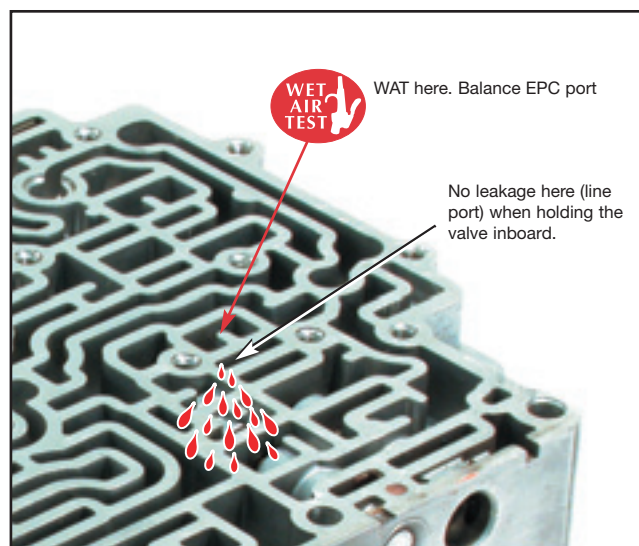
Oversized Pressure  
Regulator Valve Kit


## Application Chart

Year	Manufact.	Designation	Vehicles	Case	Reg. Valve	Boost slv.	Line mod.	Notes
'93 & Up	Ford Mazda	GF4A-EL	Mazda, Ford, MX6 w/2.5, Millenia, G.T. Probe	Big	74846-05	74846-01K	74846-04	Dual pan; No TV cable; 7 solenoid-full electronic EPC
'87-'92	Mazda Ford	G4A-EL or G4A-FEL	626 Probe	Big	74846-05	71846-01K	N.A.	Dual pan; TV cable; 4 solenoid - no governor
'87-'88	Mazda Ford	G4A-HL	323	Big	N.A.	71846-01K	N.A.	Dual pan; TV cable; 1 solenoid w/governor

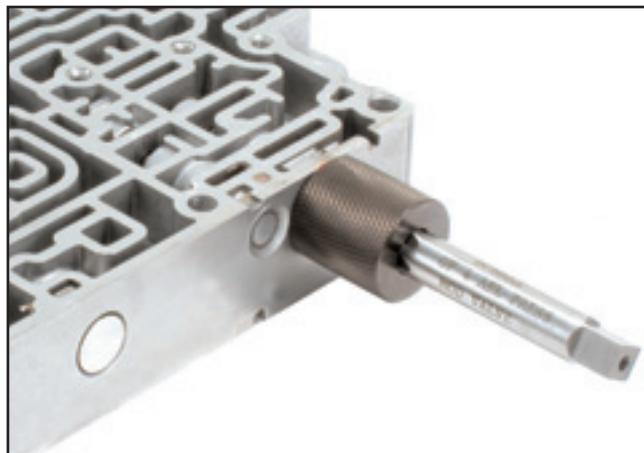
## Wet Air Test

To Wet Air Test the bore for leakage, place a small amount of oil in the balance EPC circuit. While holding the valve in the unstroked position, follow with low air pressure. There should be minimal or no leakage through the neighboring line port. If excessive leakage occurs, the bore should be reamed and the valve replaced.



## Reaming Instructions

1. Remove all components from the bore. Discard the OEM pressure modifier valve. Retain the OEM spring, end plug/adjuster, and retaining pin.
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®, 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. Use a speed handle to turn the reamer in the bore. The reaming action should be clockwise in a smooth and continuous motion, at 60-120 rpm.
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.



## 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 Instructions

Lubricate the replacement valve and bore prior to installation. Reuse the OEM spring. The end plug has an adjustable Allen screw. This fine-tunes the spring height, and should be set to factory specifications. Turning the screw in raises EPC output.

## Adjustment Screw Guidelines

As a starting point, check to see that the screw is set to one of the following:

Inside measure: Inside face of plug to tip of adjuster screw = .384" to .410".

Outside measure: Outer face of plug down to top of Allen screw = .020" to .040".