

## Oversized Pressure Modifier Valve

### 74846-07K

1 Oversized Pressure  
Modifier Valve



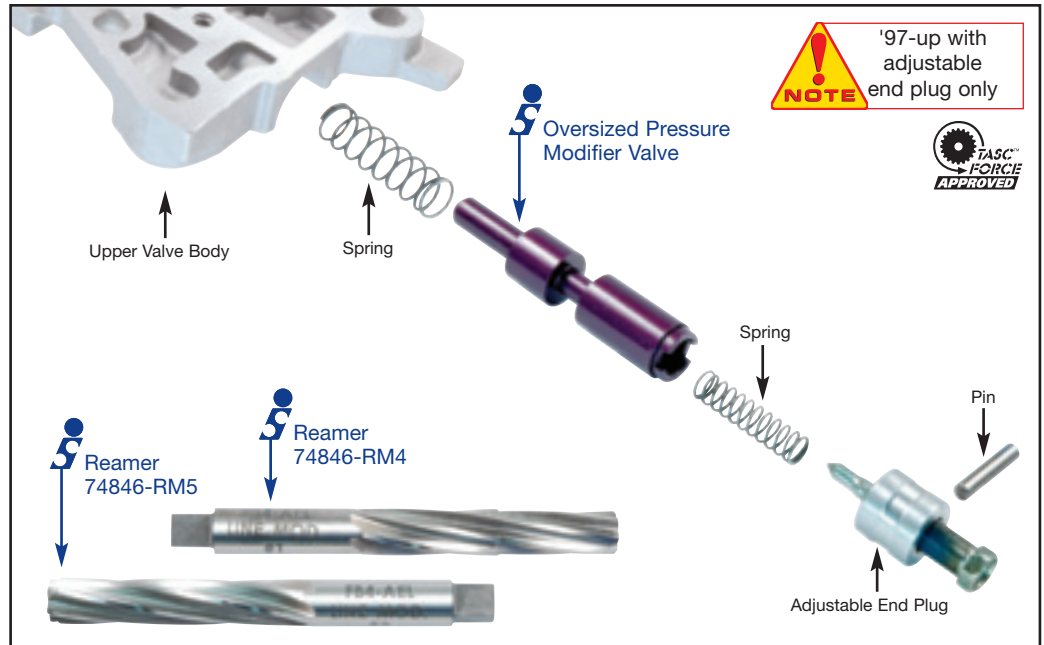
### 74846-TL7

2 Reamers

**Note:** Fits '97 & later units with adjustable end plug only.

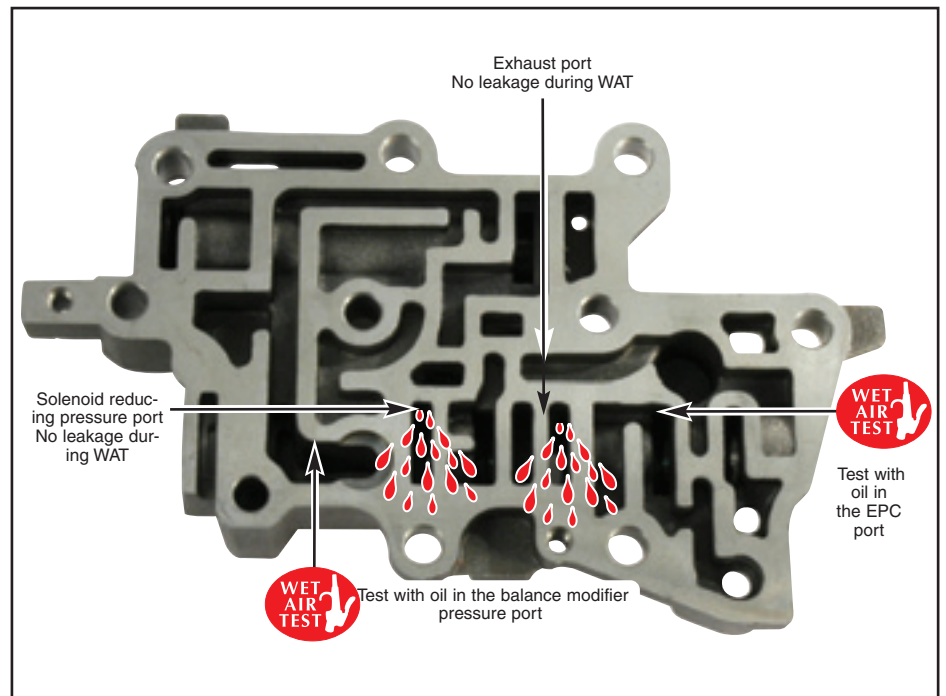
### Wet Air Test

1. Place a small amount of oil into the EPC port. Follow with low air pressure. There should be minimal/no leakage past the valve spool and out the exhaust port.
2. Place a small amount of oil into the balance modifier pressure port. There should be minimal/no leakage past the valve spool and out the solenoid reducing pressure port.



### Reaming Instructions

1. Remove all components from the bore.
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 self-piloting reamer #1 (74846-RM4 on following page) into the bore, and ease forward until the cutting tip contacts the first bore to be reamed.
6. Turn the reamer in a smooth and continuous clockwise motion, at 60-200 rpm. Continue reaming until the reamer bottoms in the bore.
7. Using low air pressure, blow the chips free prior to removing the reamer.
8. To remove the reamer, turn clockwise while slowly pulling outward on the reamer.
9. Remove any remaining debris from the bore with air pressure & clean in a solvent tank.
10. Repeat steps 3 through 9 using self-piloting reamer #2 (74846-RM5 on following page).



# F4A-EL, FA4A-EL, F4E-III

## Oversized Pressure Modifier Valve

PART NUMBERS 74846-07K, -TL7

### Cautions

1. Never turn the reamer backward. This will dull the reamer.
2. Pushing forward on the reamer will result in poor surface finish, and inadequate and sporadic material removal.
3. Never use a crescent wrench, ratchet, or pliers to turn the reamer.
4. Clean the reamer after each use and store in its protective tube.



### Installation Instructions

1. Place the large OEM spring over the Sonnax valve stem, and install into the reamed bore, spring end first.
2. Place the small OEM spring over the inboard, non-threaded stem of the adjustable bore plug.
3. Reinstall the spring/plug assembly into the bore, spring end first, just far enough to reinsert the retaining pin.

**NOTE:** The adjustable bore plug should not have to be tuned after installation of the Sonnax valve. Leave the plug at the original setting.

Year	Manufact.	Designations	Vehicles	Case	Reg. Valve	Boost slv.	Line mod.	Notes
2000-Up	FORD	4F27E(FN)	Focus		NA	NA	NA	This is a 4F27E Ford, a different unit. The case is not split in half as the -F-case is; the driveline components come out one end. None of the F parts apply.
1997-03	FORD	FA4A-EL, F4E-III, FB	Escort, Tracer	Small, single pan	74846-06	74846-01K	74846-07	5 solenoid, to include EPC. Has adjustable line modulator screw on the opposite end of EPC, with or without a tube. The FB definition comes from the VB casting. It is not an OE reference, but from aftermarket info.
'91-'96	FORD	F4EAT	Escort, Tracer	Small, single pan	74846-06	74846-01K	NA	4 solenoid, TV cable, with or without tube.
'91-'97	FORD	F3A- 3spd	Tracer, Aspire		NA	NA	NA	Not the same unit as F4EAT. The F3A is 3-speed used in the 1.6L. This does not have accumulator piston covers visible at the front top as the 4-speed unit.
'99-Up	KIA	FA4A-EL, F4E-III	Rio, Spectra, Sephia	Small, single pan	NA	NA	NA	5 solenoid with special Kia EPC and gaskets. VB casting has a K, not an FB, like the Ford or Mazda. Opposite end of bore from EPC does not have an adjuster like the FB Ford casting. With or without a tube. PR valve, boost sleeve, spring are not same as Ford/ Mazda.
'97-'98	KIA	F4A-EL	Sephia	Small, single pan	NA	NA	NA	4 solenoid, hydraulic TV cable, with or without a tube. PR valve, boost sleeve, spring are not same as Ford/ Mazda.
'99 Up	MAZDA	FN-J39A	Protégé		NA	NA	NA	This is a 4F27E Ford, a different unit. Case is not split in half as the F unit. None of the F parts apply.
1995-98	MAZDA	F4A-EL, FB4	Protégé	Small, single pan	74846-06	74846-01K	74846-07	5 solenoid with EPC, adjustable line modulator screw opposite end of EPC. Has an FB cast into it. FB is not OE reference but aftermarket. FB is casting identification. Line mod-07 has two spools of .392" OD.
'90-'95	MAZDA	F4A-EL	Protégé, MX3	Small, single pan	74846-06	74846-01K	NA	4 solenoid, TV cable, with or w/out tube. 74846-06 has two spool diameters. Smallest spool is .515".
'93-'02	FORD MAZDA	GF4-EL	Mazda, Ford, MX6 w/2.5, Millenia, G.T. Probe	Big case dual pan	74846-05	74846-01K	74846-04	7 solenoid-full electronic EPC. No TV cable. Pressure regulator valve is 2.422" long. Smallest spool is .357" OD. Has 3 spool diameters. Line mod has 3 spools.
'86-'92	MAZDA FORD	G4A-EL OR G4A-FEL	626, 323 Probe, Capri	Big case dual pan	74846-05	71846-01K	NA	2 or 4 solenoid - no governor, with TV cable, Turbo or non-turbo, E cam wheel. Same PR valve as above.
'86-'87	MAZDA FORD	G4A-HL	323, 626	Big case dual pan	NA	71846-01K	NA	1 solenoid with governor, with TV cable, H cam wheel. PR valve is steel and 2.660" long.