



FEL-PRO INSTALLATION TIPS



Positive Intake



Positive Exhaust

Use green striped plastic installation sleeve.



Positive Auxiliary
Use brown/black
plastic installation
sleeve



"O" Ring Auxiliary

Use the valve stem seals included in this set for the applications indicated.

REMOVE SPRING ASSEMBLIES, KEEPERS and the old valve stem seals.

REMOVE BURRS (IF ANY) FROM VALVE STEMS. Use a fine stone or crocus cloth. Clean stems thoroughly to remove all abrasives or dust particles. Lubricate lightly.

INSTALL NEW SEALS.

POSITIVE GUIDE SEAL: Trim plastic installation sleeves so it extends 1/16" below the keeper groove. Place sleeve on valve stem.

- Continued -

Carefully start valve stem seal over sleeve. Push seal down on seal body until it nests snugly over valve guide.

Remove plastic installation sleeve and reuse for installing remaining seals.

"O" RING TYPE SEAL: Place "O" Ring seal on valve stem and position it into the proper groove. If "O" RING IS USED IN CONJUNCTION WITH A POSITIVE OR UMBRELLA SEAL, install the "O" Ring last.

REPLACE VALVE SPRING ASSEMBLIES. Compress springs just enough to install keepers.

IMPORTANT: Excessive compression can result in spring retainer damaging valve stem seal. Release spring carefully.

©2005 Federal-Mogul Corporation
Form No. I-1222 (Rev. 03/05)

Printed in U.S.A.



FEL-PRO INSTALLATION TIPS



Positive Intake



Positive Exhaust

Use green striped plastic installation sleeve.



Positive Auxiliary
Use brown/black
plastic installation
sleeve



"O" Ring Auxiliary

Use the valve stem seals included in this set for the applications indicated.

REMOVE SPRING ASSEMBLIES, KEEPERS and the old valve stem seals.

REMOVE BURRS (IF ANY) FROM VALVE STEMS. Use a fine stone or crocus cloth. Clean stems thoroughly to remove all abrasives or dust particles. Lubricate lightly.

INSTALL NEW SEALS.

POSITIVE GUIDE SEAL: Trim plastic installation sleeves so it extends 1/16" below the keeper groove. Place sleeve on valve stem.

- Continued -

Carefully start valve stem seal over sleeve. Push seal down on seal body until it nests snugly over valve guide.

Remove plastic installation sleeve and reuse for installing remaining seals.

"O" RING TYPE SEAL: Place "O" Ring seal on valve stem and position it into the proper groove. If "O" RING IS USED IN CONJUNCTION WITH A POSITIVE OR UMBRELLA SEAL, install the "O" Ring last.

REPLACE VALVE SPRING ASSEMBLIES. Compress springs just enough to install keepers.

IMPORTANT: Excessive compression can result in spring retainer damaging valve stem seal. Release spring carefully.

©2005 Federal-Mogul Corporation
Form No. I-1222 (Rev. 03/05)

Printed in U.S.A.



FEL-PRO INSTALLATION TIPS



Positive Intake



Positive Exhaust

Use green striped plastic installation sleeve.



Positive Auxiliary
Use brown/black
plastic installation
sleeve



"O" Ring Auxiliary

Use the valve stem seals included in this set for the applications indicated.

REMOVE SPRING ASSEMBLIES, KEEPERS and the old valve stem seals.

REMOVE BURRS (IF ANY) FROM VALVE STEMS. Use a fine stone or crocus cloth. Clean stems thoroughly to remove all abrasives or dust particles. Lubricate lightly.

INSTALL NEW SEALS.

POSITIVE GUIDE SEAL: Trim plastic installation sleeves so it extends 1/16" below the keeper groove. Place sleeve on valve stem.

- Continued -

Carefully start valve stem seal over sleeve. Push seal down on seal body until it nests snugly over valve guide.

Remove plastic installation sleeve and reuse for installing remaining seals.

"O" RING TYPE SEAL: Place "O" Ring seal on valve stem and position it into the proper groove. If "O" RING IS USED IN CONJUNCTION WITH A POSITIVE OR UMBRELLA SEAL, install the "O" Ring last.

REPLACE VALVE SPRING ASSEMBLIES. Compress springs just enough to install keepers.

IMPORTANT: Excessive compression can result in spring retainer damaging valve stem seal. Release spring carefully.

©2005 Federal-Mogul Corporation
Form No. I-1222 (Rev. 03/05)

Printed in U.S.A.



FEL-PRO INSTALLATION TIPS



Positive Intake



Positive Exhaust

Use green striped plastic installation sleeve.



Positive Auxiliary
Use brown/black
plastic installation
sleeve



"O" Ring Auxiliary

Use the valve stem seals included in this set for the applications indicated.

REMOVE SPRING ASSEMBLIES, KEEPERS and the old valve stem seals.

REMOVE BURRS (IF ANY) FROM VALVE STEMS. Use a fine stone or crocus cloth. Clean stems thoroughly to remove all abrasives or dust particles. Lubricate lightly.

INSTALL NEW SEALS.

POSITIVE GUIDE SEAL: Trim plastic installation sleeves so it extends 1/16" below the keeper groove. Place sleeve on valve stem.

- Continued -

Carefully start valve stem seal over sleeve. Push seal down on seal body until it nests snugly over valve guide.

Remove plastic installation sleeve and reuse for installing remaining seals.

"O" RING TYPE SEAL: Place "O" Ring seal on valve stem and position it into the proper groove. If "O" RING IS USED IN CONJUNCTION WITH A POSITIVE OR UMBRELLA SEAL, install the "O" Ring last.

REPLACE VALVE SPRING ASSEMBLIES. Compress springs just enough to install keepers.

IMPORTANT: Excessive compression can result in spring retainer damaging valve stem seal. Release spring carefully.

©2005 Federal-Mogul Corporation
Form No. I-1222 (Rev. 03/05)

Printed in U.S.A.