

GENERAL INSTRUCTIONS

CLEAN MATING SURFACES. Use a degreaser.

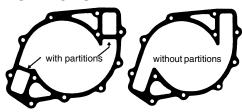
CLEAN THREADS of bolts/studs; for nuts/threaded holes use a bottoming tap.

BOLT PREPARATION: Those **entering** coolant passages require a pliable non-hardening sealer on threads and underside of bolt heads. Those **not entering** coolant passages require oil on threads and underside of bolt heads. **Exhaust Assembly:** Apply a high temperature anti-seize lubricant to threadings.

CHECK CASTINGS for flatness. Straighten, resurface or replace if needed. **CYLINDER HEAD AND BLOCK:** Refer to OEM manual to determine flatness tolerances and resurfacing limitations.

FINAL ASSEMBLY: Torque all fasteners to OEM specifications unless noted. **CYLINDER HEAD** torquing is critical; we recommend that you confirm with OEM.

WATER PUMP GASKET



This set contains 2 different water pump gaskets. Identify and install as indicated. Install Part No. 35039 WITH PARTITIONS between the pump cover and the front cover. Install Part No. 35044 WITHOUT PARTITIONS between the pump housing and pump cover.

IMPORTANT: If gasket are installed in reverse order, a water leak will occur.

- Continued -



GENERAL INSTRUCTIONS

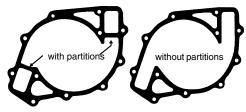
CLEAN MATING SURFACES. Use a degreaser. **CLEAN THREADS** of bolts/studs; for nuts/threaded holes use a bottoming tap.

BOLT PREPARATION: Those **entering** coolant passages require a pliable non-hardening sealer on threads and underside of bolt heads. Those **not entering** coolant passages require oil on threads and underside of bolt heads. **Exhaust Assembly:** Apply a high temperature anti-seize lubricant to threadings.

CHECK CASTINGS for flatness. Straighten, resurface or replace if needed. **CYLINDER HEAD AND BLOCK:** Refer to OEM manual to determine flatness tolerances and resurfacing limitations.

FINAL ASSEMBLY: Torque all fasteners to OEM specifications unless noted. **CYLINDER HEAD** torquing is critical; we recommend that you confirm with OEM.

WATER PUMP GASKET



This set contains 2 different water pump gaskets. Identify and install as indicated. Install Part No. 35039 WITH PARTITIONS between the pump cover and the front cover. Install Part No. 35044 WITHOUT PARTITIONS between the pump housing and pump cover.

IMPORTANT: If gasket are installed in reverse order, a water leak will occur.

ROTATING SHAFT SEALS

RUBBER SEAL(S): Install seal with its largest sealing lip toward the engine. Two piece rubber seals may be installed using "shoehorn" installation aid placed underneath seals to protect them form sharp edges.

ROPE SEALS: Install seals into grooves of cap and block by firmly pressing packing into grooves with a "packing tool". Ensure that ends of seals protrude above face of cap and block.

IMPORTANT: Final interference of rope packing seals against crankshaft is critical. To achieve interference, it is best to install packing using correct **Packing Tool** for your engine. With "packing tool" in position, cut protruded of seals flush with cap and block.

LUBRICATE SEALING LIPS AND CRANKSHAFT with motor oil or grease. If engine will not be started within several days, grease is recommended.

IMPORTANT: Never install any seal without break-in lubricant protection.

REAR MAIN BEARING CAP: Prior to installation, apply an anaerobic sealant to mating surfaces fo cap or block. **AVOID** sealant on ends of seals.

OIL PAN GASKET

ATTACH AND ALIGN GASKET(S). Apply a quick-drying adhesive sparingly. Mount gasket seals. PRIOR TO INSTALLING OIL PAN apply a dab of silicone sealer where all gaskets and seals meet.

© 2000 Fel-Pro Incorporated Form No. I-496 (Rev. 12/04)

Printed in U.S.A.

ROTATING SHAFT SEALS

RUBBER SEAL(S): Install seal with its largest sealing lip toward the engine. Two piece rubber seals may be installed using "shoehorn" installation aid placed underneath seals to protect them form sharp edges.

ROPE SEALS: Install seals into grooves of cap and block by firmly pressing packing into grooves with a "packing tool". Ensure that ends of seals protrude above face of cap and block.

IMPORTANT: Final interference of rope packing seals against crankshaft is critical. To achieve interference, it is best to install packing using correct **Packing Tool** for your engine. With "packing tool" in position, cut protruded of seals flush with cap and block.

LUBRICATE SEALING LIPS AND CRANKSHAFT with motor oil or grease. If engine will not be started within several days, grease is recommended.

IMPORTANT: Never install any seal without break-in lubricant protection.

REAR MAIN BEARING CAP: Prior to installation, apply an anaerobic sealant to mating surfaces fo cap or block. **AVOID** sealant on ends of seals.

OIL PAN GASKET

ATTACH AND ALIGN GASKET(S). Apply a quick-drying adhesive sparingly. Mount gasket seals. PRIOR TO INSTALLING OIL PAN apply a dab of silicone sealer where all gaskets and seals meet.

© 2000 Fel-Pro Incorporated Form No. I-496 (Rev. 12/04)



GENERAL INSTRUCTIONS

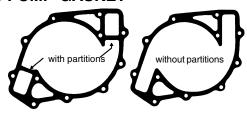
CLEAN MATING SURFACES. Use a degreaser. **CLEAN THREADS** of bolts/studs; for nuts/threaded holes use a bottoming tap.

BOLT PREPARATION: Those **entering** coolant passages require a pliable non-hardening sealer on threads and underside of bolt heads. Those **not entering** coolant passages require oil on threads and underside of bolt heads. **Exhaust Assembly:** Apply a high temperature anti-seize lubricant to threadings.

CHECK CASTINGS for flatness. Straighten, resurface or replace if needed. **CYLINDER HEAD AND BLOCK:** Refer to OEM manual to determine flatness tolerances and resurfacing limitations.

FINAL ASSEMBLY: Torque all fasteners to OEM specifications unless noted. **CYLINDER HEAD** torquing is critical; we recommend that you confirm with OEM.

WATER PUMP GASKET



This set contains 2 different water pump gaskets. Identify and install as indicated. Install Part No. 35039 WITH PARTITIONS between the pump cover and the front cover. Install Part No. 35044 WITHOUT PARTITIONS between the pump housing and pump cover.

IMPORTANT: If gasket are installed in reverse order, a water leak will occur.

- Continued -



GENERAL INSTRUCTIONS

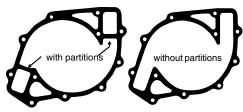
CLEAN MATING SURFACES. Use a degreaser. **CLEAN THREADS** of bolts/studs; for nuts/threaded holes use a bottoming tap.

BOLT PREPARATION: Those **entering** coolant passages require a pliable non-hardening sealer on threads and underside of bolt heads. Those **not entering** coolant passages require oil on threads and underside of bolt heads. **Exhaust Assembly:** Apply a high temperature anti-seize lubricant to threadings.

CHECK CASTINGS for flatness. Straighten, resurface or replace if needed. **CYLINDER HEAD AND BLOCK:** Refer to OEM manual to determine flatness tolerances and resurfacing limitations.

FINAL ASSEMBLY: Torque all fasteners to OEM specifications unless noted. **CYLINDER HEAD** torquing is critical; we recommend that you confirm with OEM.

WATER PUMP GASKET



This set contains 2 different water pump gaskets. Identify and install as indicated. Install Part No. 35039 WITH PARTITIONS between the pump cover and the front cover. Install Part No. 35044 WITHOUT PARTITIONS between the pump housing and pump cover.

IMPORTANT: If gasket are installed in reverse order, a water leak will occur.

ROTATING SHAFT SEALS

RUBBER SEAL(S): Install seal with its largest sealing lip toward the engine. Two piece rubber seals may be installed using "shoehorn" installation aid placed underneath seals to protect them form sharp edges.

ROPE SEALS: Install seals into grooves of cap and block by firmly pressing packing into grooves with a "packing tool". Ensure that ends of seals protrude above face of cap and block.

IMPORTANT: Final interference of rope packing seals against crankshaft is critical. To achieve interference, it is best to install packing using correct **Packing Tool** for your engine. With "packing tool" in position, cut protruded of seals flush with cap and block.

LUBRICATE SEALING LIPS AND CRANKSHAFT with motor oil or grease. If engine will not be started within several days, grease is recommended.

IMPORTANT: Never install any seal without break-in lubricant protection.

REAR MAIN BEARING CAP: Prior to installation, apply an anaerobic sealant to mating surfaces fo cap or block. **AVOID** sealant on ends of seals.

OIL PAN GASKET

ATTACH AND ALIGN GASKET(S). Apply a quick-drying adhesive sparingly. Mount gasket seals. **PRIOR TO INSTALLING OIL PAN** apply a dab of silicone sealer where all gaskets and seals meet.

© 2000 Fel-Pro Incorporated Form No. I-496 (Rev. 12/04)

Printed in U.S.A.

ROTATING SHAFT SEALS

RUBBER SEAL(S): Install seal with its largest sealing lip toward the engine. Two piece rubber seals may be installed using "shoehorn" installation aid placed underneath seals to protect them form sharp edges.

ROPE SEALS: Install seals into grooves of cap and block by firmly pressing packing into grooves with a "packing tool". Ensure that ends of seals protrude above face of cap and block.

IMPORTANT: Final interference of rope packing seals against crankshaft is critical. To achieve interference, it is best to install packing using correct **Packing Tool** for your engine. With "packing tool" in position, cut protruded of seals flush with cap and block.

LUBRICATE SEALING LIPS AND CRANKSHAFT with motor oil or grease. If engine will not be started within several days, grease is recommended.

IMPORTANT: Never install any seal without break-in lubricant protection.

REAR MAIN BEARING CAP: Prior to installation, apply an anaerobic sealant to mating surfaces fo cap or block. **AVOID** sealant on ends of seals.

OIL PAN GASKET

ATTACH AND ALIGN GASKET(S). Apply a quick-drying adhesive sparingly. Mount gasket seals. PRIOR TO INSTALLING OIL PAN apply a dab of silicone sealer where all gaskets and seals meet.

© 2000 Fel-Pro Incorporated Form No. I-496 (Rev. 12/04)