

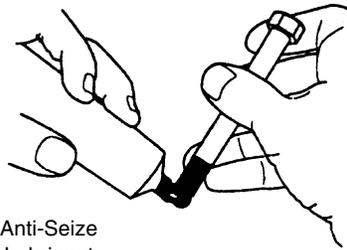
TORQUE INTAKE AND EXHAUST MANIFOLD ASSEMBLY
as follows.

Slightly torque all manifold-to-cylinder head and intake-to-exhaust studs, bolts and or nuts to 10 in. lbs (1.13 Nm).
Torque all inboard intake to exhaust manifold studs, bolts and/or nuts to specifications.
Torque all outboard intake to exhaust manifold studs, bolts and/or nuts to specifications.
Repeat the inboard and outboard torquing to assure that full specified torque has been achieved.
Torque all intake and exhaust manifold to cylinder head stud nuts starting with the center moving out in both directions to 120 in. lbs. (13.6 Nm).

TORQUE INTAKE MANIFOLD EXHAUST CONNECTION to 35 ft. lbs. (47.6 Nm). Over-torquing can fracture the manifold and/or cause the bolts and studs to break.

EXHAUST PIPE FLANGE

CLEAN MATING SURFACES of all foreign material. You may use a degreaser.



CLEAN ALL THREADS, by using a wire brush for bolts and/or studs. Apply a high temperature anti-seize lubricant to the bolt and/or stud threads

ATTACH AND ALIGN GASKET.

REINSTALL EXHAUST PIPE FLANGE AND/OR E.G.R. VALVE GASKET(S) TO ENGINE. Torque securely to OEM specifications.
Over-torquing can cause the bolts and studs to break.

TEST RUN ENGINE. Check all mating areas thoroughly to determine that all seals hold during operation.



FEL-PRO INSTALLATION TIPS

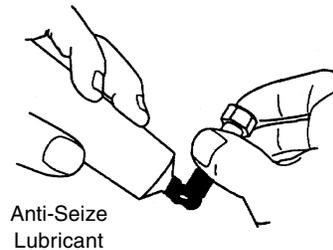
Fe-Pro products are the result of exhaustive research and strict quality control. However, no sealing product is better than the quality of its installation

INTAKE AND EXHAUST MANIFOLD GASKETS

REMOVE MANIFOLD from cylinder heads. **IMPORTANT:** You must disassemble the intake manifold from the exhaust manifold to allow for corrected realignment of the manifolds to the cylinder head during the reassembly.

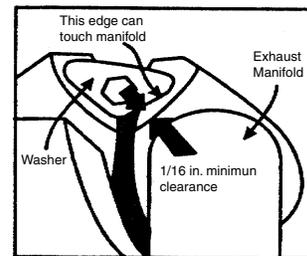
CLEAN MATING SURFACES of all foreign materials including old gaskets, RTV and oil. You may wish to use a degreaser.

CHECK MANIFOLD CASTINGS for flatness of gasket surface. Resurface or replace if severely distorted.



CLEAN ALL THREADS by using a wire brush for bolts and studs, tap all bolt holes and stud nuts. Apply a high temperature anti-seize lubricant to the bolt and stud threads.

REASSEMBLE MANIFOLDS. Install the intake-to-exhaust gasket between the intake and exhaust manifolds. Only finger tighten the manifolds together



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ATTACH AND ALIGN GASKET(S) TO CYLINDER HEAD(S).

REINSTALL INTAKE AND EXHAUST MANIFOLD ASSEMBLY to cylinder heads.

WASHER INSTALLATION FOR EXHAUST MANIFOLDS: for 170, 198 and 225 engines washers must be installed to permit expansion and contraction of the manifolds. The washers spanning the intake and exhaust flanges should apply more pressure to the intake manifold as opposed to the exhaust manifold. To accomplish this; the intake casting flanges are slightly thicker than the exhaust flanges, this difference should be maintained. **IMPORTANT:** Keep a minimum gap of 1/16" around all the bridging washers.

IMPORTANT: Consult the latest OEM torque specifications as changes may have taken place since this printing.

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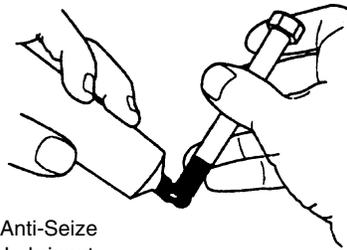
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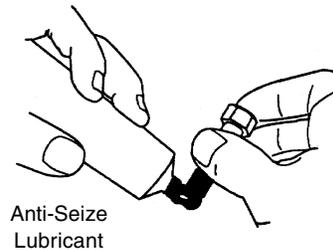
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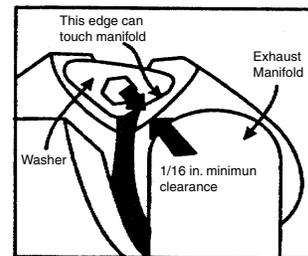
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