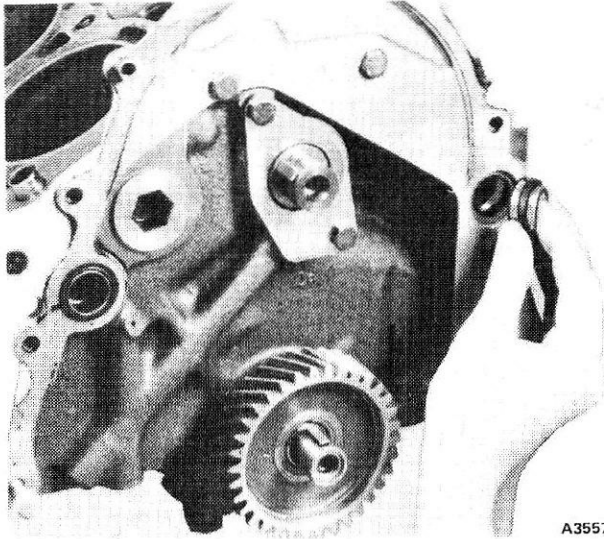


CYLINDER FRONT COVER

Removal

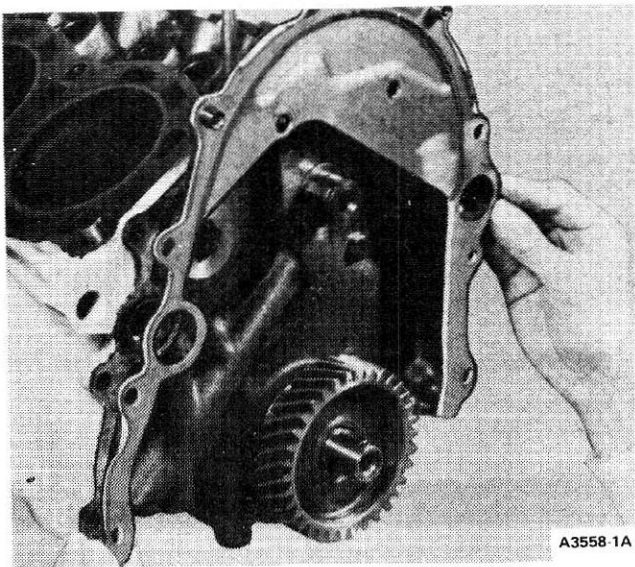
1. Remove oil pan as described under Oil Pan—Removal.
2. Drain the coolant. Remove the radiator and any other parts to provide necessary clearance.
3. Remove A/C compressor and bracket, if equipped.
4. Remove alternator, thermactor pump and drive belt(s). Remove water pump and water lines.
5. Remove fan.
6. Remove the drive pulley from the crankshaft.



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FIG. 15 Removing or Installing Guide Sleeves

7. Remove front cover retaining bolts. If necessary, tap cover lightly with a plastic hammer to break gasket seal. Remove front cover. If front cover plate gasket needs replacement, remove two screws and remove plate (Fig. 16). If necessary, remove guide sleeves from cylinder block (Fig. 15).

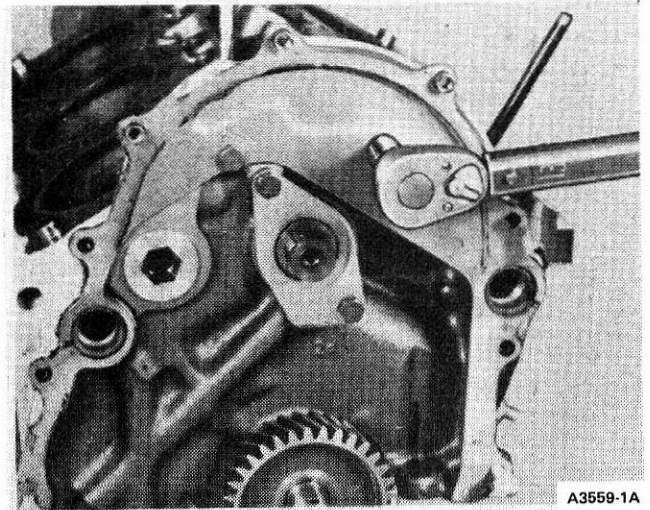


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FIG. 16 Removing or Installing Front Cover Plate

Installation

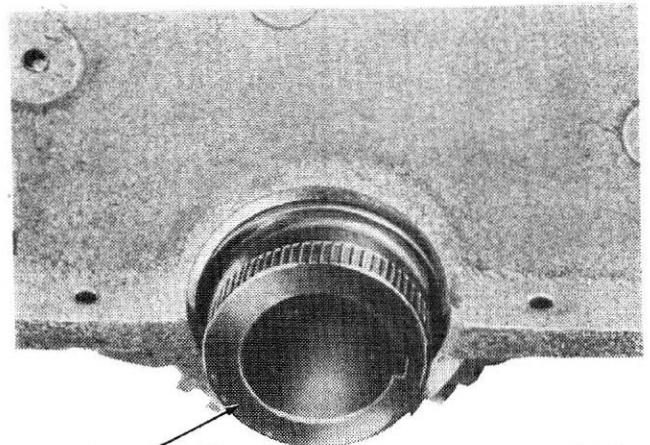
1. Clean the mating surfaces of gasket material. Apply sealing compound to the gasket surfaces on the cylinder block and back side of the front cover plate. Position gasket and front cover plate on cylinder block (Fig. 16). Temporarily install four front cover screws to position gasket and cover plate in place. Install and tighten two cover plate attaching bolts (Fig. 17), then remove four screws that were temporarily installed.



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FIG. 17 Torquing Front Cover Plate Attaching Bolts

2. If removed, fit new seal rings to the guide sleeves and, with no sealer used, insert the sleeves in the cylinder block with the chamfered side of the sleeve toward the front cover (Fig. 15).
3. Apply sealing compound to front cover gasket surface. Place gasket in position on front cover.
4. Place front cover on engine and start all retaining screws two or three turns. Center cover by inserting tool in oil seal (Fig. 18).



TOOL-T74P 6019-A

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FIG. 18 Aligning Front Cover

5. Tighten front cover attaching screws to specifications.
6. Install belt drive pulley and tighten attaching bolt to specification.

7. Install oil pan following Oil Pan Installation procedure.
8. Install water pump, water hose, A/C compressor, alternator, thermactor pump and drive belt(s). Adjust drive belt tension to specifications.
9. Fill the cooling system to the proper level with the specified coolant. See Part 27-01 for detailed instructions.
10. Operate the engine at fast idle speed and check for coolant and oil leaks.

FRONT OIL SEAL

In-Chassis

Removal

1. Drain the coolant. Remove the radiator and crankshaft pulley and water pump drive belt. It is not necessary to remove the front cover for this operation.
2. Pull the front cover oil seal out with the tools shown in Fig. 19.

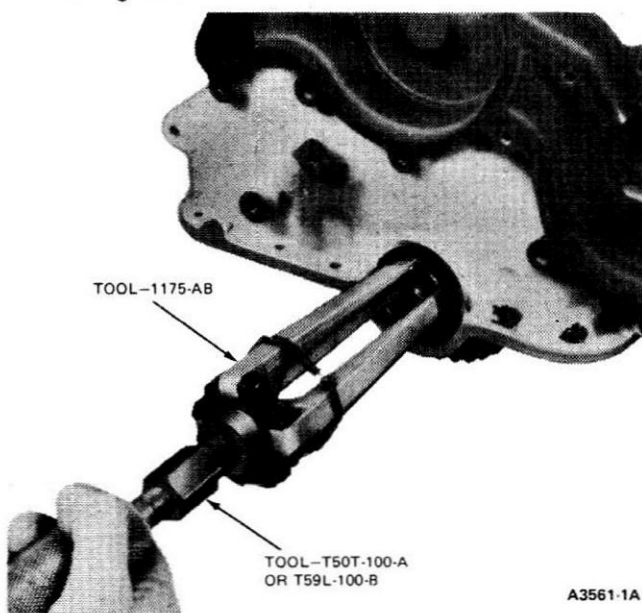


FIG. 19 Removing Front Oil Seal—In Chassis

Installation

1. Coat the new front cover oil seal with Lubriplate or equivalent. Slide tool and new oil seal onto the crankshaft. Drive the oil seal in until the tool abuts against the front cover (Fig. 20).
2. Replace crankshaft pulleys and bolt. Torque bolt to specifications, then replace radiator and drive belt. Adjust belt tension to specification using Tool T63L-8620-A.
3. Fill the cooling system to the proper level with the specified coolant. See Part 27-01 for detailed instructions.
4. Operate the engine at fast idle speed and check for coolant leaks.

Front Cover Removed

Removal

1. Support the front cover to prevent damage while driving out seal.

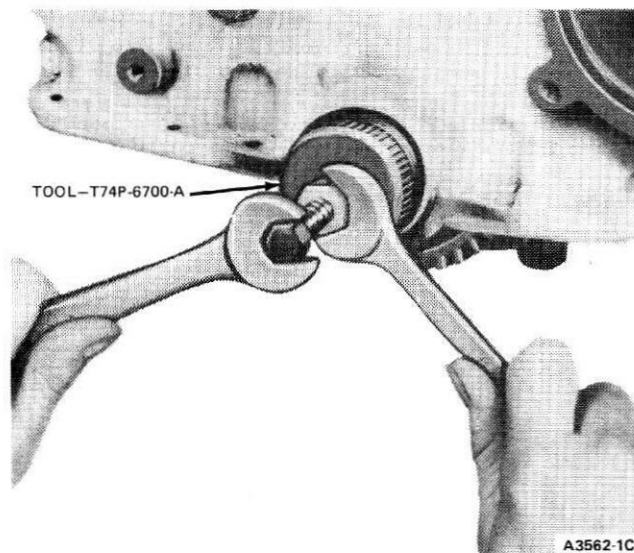


FIG. 20 Installing Front Oil Seal—In Chassis

2. Drive out seal from front cover with the tool shown in Fig. 21.

Installation

1. Support front cover to prevent damage while installing seal.
2. Coat the new front cover oil seal with Lubriplate or equivalent. Install the new seal in the front cover as shown in Fig. 22.

CAMSHAFT

The camshaft and related parts are shown in Fig. 23.

Removal

1. Drain the coolant. Remove the radiator, fan, spacer, water pump pulley and drive belt.
2. Remove distributor cap with spark plug wires as an assembly. Disconnect distributor wiring harness. Remove distributor vacuum line, distributor, alternator, thermactor pump, rocker arm covers, fuel line and filter, carburetor, and intake manifold.

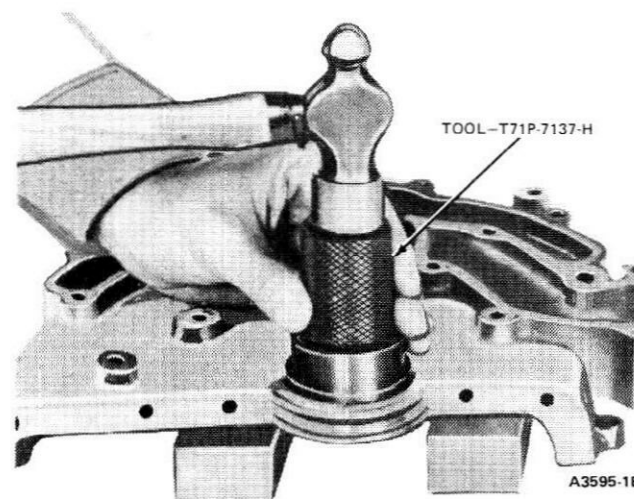


FIG. 21 Removing Front Oil Seal—Front Cover Removed