

Oil Pan Removal

CHRYSLER CORP.

6-CYLINDER ENGINES

3.7L (225") ENGINE

1) Disconnect battery ground cable. Remove engine oil dipstick. Raise vehicle and drain engine oil.

2) Remove engine-to-transmission support strut. Remove torque converter inspection cover plate (if equipped with automatic transmission). Remove oil pan attaching bolts and oil pan.

NOTE — When installing, use $\frac{1}{8}$ " bead of sealer on 4 corners of rubber seal and cork gasket. California engines require a high temperature left side oil pan gasket.

V8 ENGINES

5.2L (318") & 5.9L (360") ENGINES

1) Disconnect battery ground cable. Remove engine oil dipstick. Raise vehicle and drain crankcase.

2) Remove exhaust crossover pipe and remove left engine-to-transmission support strut. Remove torque converter cover (if equipped with automatic transmission).

3) Remove oil pan bolts and remove oil pan.

NOTE — When installing, apply a drop of sealer to corners where cork and rubber gaskets meet. On 5.9L (360") engines, ensure notches in side gaskets align with corresponding notches in engine block.

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	INCH Lbs.
All Models	200

NOTE — Torque specifications for components other than oil pan attaching bolts may be found in Engine Removal Section.

FORD

6-CYLINDER ENGINES

"E" MODELS WITH 4.9L (300") ENGINE

1) Remove engine cover, air cleaner and carburetor. If equipped with air conditioning, discharge refrigerant and remove compressor. Remove EGR valve and upper radiator hose. On E350 models, remove thermactor check valve.

2) Remove fan shroud. If equipped with automatic transmission, remove filler tube. Remove nuts holding exhaust pipe to exhaust manifold, and raise vehicle. Disconnect and plug fuel pump inlet line.

3) Remove alternator, splash shield and front engine mount nuts. Disconnect lower radiator hose and transmission cooler lines. Remove power steering return line clip located in front of crossmember.

4) Remove starter and dip stick tube. Raise engine and place 3" blocks under engine mounts. Lower engine and remove jack. Remove oil pan bolts and pick-up tube with screen from oil pump. Remove oil pan.

NOTE — When installing, use a suitable sealer on pan gaskets. Tighten 3 oil pan-to-front cover bolts last.

"F" MODELS & BRONCO WITH 4.9L (300") ENGINE

1) Drain crankcase and cooling system. Remove radiator and raise vehicle on hoist. On F 100-250 vehicles, remove starter. Remove front engine mount nuts then raise front of engine with transmission jack.

2) Place 1" block of wood under engine mounts. Lower engine on blocks and remove jack. Remove oil pan bolts and lower pan to crossmember. Remove oil pump inlet tube bolts and lay tube in bottom of pan. Remove oil pan.

V8 ENGINES

"F" MODELS & BRONCO WITH 4.2L (255"), 5.0L (302") & 5.8L (351") W ENGINES

1) Remove oil dipstick (on pan entry models only). Remove fan shroud and position over fan. Disconnect engine mounts. On automatic transmission models, disconnect oil cooler line at left side of radiator. Raise engine and place wooden blocks under engine supports.

2) Drain engine oil, remove oil pan attaching bolts, and lower oil pan onto engine crossmember. Remove 2 bolts holding oil pump pickup tube to oil pump. Remove nut attaching oil pickup tube to No. 3 main bearing cap stud. Lower pickup tube and screen assembly into oil pan and remove pan from vehicle.

"E" MODELS WITH 4.2L (255") 5.0L (302") & 5.8L (351") W ENGINES

1) Disconnect battery and remove engine cover. Remove air cleaner and drain cooling system. If equipped with air conditioning or power steering, remove compressor or power steering pump and position out of way. Disconnect upper radiator hose. Remove fan shroud bolts and oil filler tube. Remove oil dipstick-to-exhaust manifold bolt. Raise vehicle on hoist.

2) Remove splash shield under alternator. Disconnect lower radiator hose and if equipped, disconnect automatic transmission lines at radiator. Disconnect engine mounts and fuel line at fuel pump. Drain engine oil and remove dipstick tube from oil pan. Detach exhaust pipe from exhaust manifolds. If equipped, remove automatic transmission dipstick and tube. Disconnect manual linkage at transmission. Remove center driveshaft support and remove driveshaft from transmission.

FORD | (Cont.)

3) Place a transmission jack under oil pan and raise engine 4 inches measured from front engine mounts. Insert wooden blocks between engine and mounts to support engine.

NOTE — Engine and transmission assembly will pivot around rear engine mount. Engine must remain centered in engine compartment to obtain the required 4 inch lift.

4) Remove oil pan attaching bolts and lower oil pan. Unbolt oil pump and pickup tube and lay in pan (except on E100-E350 models with 5.8L engine). Remove nut attaching pickup tube to No. 3 bearing cap stud, and remove pan from vehicle.

"E" MODELS WITH 5.8L (351") M & 6.6L (400") ENGINES

1) Disconnect battery and remove engine cover. Remove air cleaner and drain cooling system. Disconnect upper radiator hose and remove fan shroud bolts. Remove oil filler tube and dipstick-to-manifold mounting bolt. Raise vehicle on hoist.

2) Remove splash shield under alternator. If equipped with automatic transmission, remove cooler lines at radiator. Disconnect lower radiator hoses and fuel line at pump. Remove engine mount nuts and oil dipstick tube from oil pan. Disconnect exhaust crossover pipe from exhaust manifolds.

3) If equipped, remove automatic transmission dipstick and filler tube. Disconnect manual linkage at transmission. Remove center driveshaft support and remove driveshaft from transmission.

4) Place a transmission jack under oil pan and raise engine 2 inches measured from front engine mounts. Insert wooden blocks between engine and mounts to support engine.

NOTE — Engine and transmission assembly will pivot around rear engine mount. Engine must remain centered in engine compartment to achieve required lift. DO NOT raise engine more than 2 inches, or damage to air conditioning main and auxiliary suction lines will result.

5) Remove oil pan attaching bolts and lower oil pan onto crossmember. Unbolt oil pump and pickup tube and lay in oil pan. Remove oil pan from vehicle.

"F" MODELS & BRONCO WITH 5.8L (351") M & 6.6L (400") ENGINES

1) Remove oil dipstick. Remove fan shroud attaching bolts and position shroud over fan. Raise vehicle and drain engine oil. Disconnect starter cable and remove starter. Place a jack under engine and remove engine front support. Place wooden blocks between engine and chassis brackets. Remove jack.

2) If vehicle is equipped with automatic transmission, remove oil cooler lines and position out of way. Remove oil pan attaching bolts and remove oil pan from vehicle.

"E" MODELS WITH 7.5L (460") ENGINE

1) Remove engine cover, disconnect battery and drain cooling system. Remove air cleaner assembly, then disconnect throttle and transmission linkage at carburetor. Disconnect power brake vacuum line. Disconnect fuel line, choke lines, and air cleaner adapter from carburetor.

2) Disconnect radiator hoses, transmission oil cooler lines, then remove fan assembly, shroud, and radiator. Remove power steering pump and position to one side with hoses connected. Remove oil dipstick tube and engine mount attaching bolts. Remove oil filler tube and bracket.

3) If equipped, remove air conditioning lines or rotate them downward at rear of compressor to clear dashboard. Raise vehicle, drain crankcase, and remove oil filter. Remove exhaust crossover pipe from exhaust manifolds. Disconnect manual and kickdown linkage from transmission. Remove drive shaft and coupling shaft assembly. Remove transmission tube assembly.

4) Remove dipstick and tube from oil pan. Position a jack under oil pan and raise engine until transmission touches floor board (approximately 4 inches). Insert wooden blocks between engine and mounts to support engine.

NOTE — Engine and transmission will pivot around rear engine mount. Engine must remain centered in engine compartment to achieve desired lift.

5) Remove oil pan attaching bolts and lower oil pan onto crossmember. Remove oil pump and pickup tube assembly and lay in oil pan. Remove oil pan rearward from vehicle.

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	Ft. Lbs.
4.9L (300")	10-12
4.2L (255"), 5.0L (302"), & 5.8L (351") W	9-11
5.8L (351") M & 6.6L (400")	7-9
7.5L (460")	7-11

NOTE — Torque specifications for components other than oil pan attaching bolts may be found in Engine Removal Section.

GENERAL MOTORS

6-CYLINDER ENGINES

"G" VAN MODELS WITH 4.1L (250") & 4.8L (292") ENGINES

1) Disconnect battery cable and remove engine cover. Remove air cleaner and studs. Remove fan guard. Remove radiator upper supports. Raise vehicle.

2) If vehicle is equipped with a standard transmission, perform the following steps before continuing: Disconnect clutch cross shaft from left front mount bracket. Remove transmission-to-

bell housing upper bolt. Remove transmission rear mount bolts and install two $\frac{7}{16}$ " X 3" bolts. Raise transmission using jack and install 2" block between mount and crossmember.

3) Remove starter and drain engine oil. Remove engine mount bolts. Raise engine sufficiently to insert wooden blocks between engine mounts and crossmember brackets.

4) Remove flywheel splash shield or torque converter cover as applicable. Remove oil pan attaching bolts and remove oil pan.