

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 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.

Oil Pan Removal

GENERAL MOTORS (Cont.)

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

- 1) Disconnect battery cable, raise vehicle, and drain engine oil. Remove starter and flywheel splash shield or torque converter housing underpan as applicable.
- 2) Remove bolts from front engine mount. Raise front of engine, reinstall mount bolts, and lower engine. Remove oil pan bolts, and remove oil pan from vehicle.

V8 ENGINES

ALL MODELS WITH 5.0L (305") & 5.7L (350") GAS ENGINES

- 1) Raise vehicle on hoist and drain engine oil. Remove exhaust crossover pipe. On vehicles with automatic transmissions, remove converter housing underpan.
- 2) On "K" models with automatic transmission, remove strut rods at engine mounts. Remove oil pan mounting bolts and remove oil pan from vehicle.

ALL MODELS WITH 7.4L (454") ENGINE

- 1) Disconnect battery negative cable, loosen fan shroud and remove air cleaner and distributor cap. Raise vehicle and drain oil. On models equipped with manual transmission, remove starter.
- 2) Remove flywheel splash shield/converter cover. Remove oil filter. On gauge equipped models, remove oil pressure line from block. Remove front engine mount through bolts, raise engine and remove oil pan bolts and remove oil pan.

ALL MODELS WITH 5.7L (350") DIESEL ENGINE

- 1) Disconnect battery cable and remove oil dipstick. Remove oil pump drive and vacuum pump. Remove upper radiator support and fan shroud attaching bolts.
- 2) Raise vehicle and drain engine oil. Remove flywheel cover. Disconnect exhaust and crossover pipes. Remove oil cooler lines at filter base and remove starter assembly.
- 3) Remove engine mounts from engine block and install a jack under engine. Remove oil pan mounting bolts and remove oil pan from vehicle.

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	Ft. Lbs.
4.1L (250") & 4.8L (292") Engines	
Oil Pan-to-Block	
1/4"-20 Bolts	6-7
5/16"-18 Bolts	6-7
Oil Pan-to-Front Cover	4-5
5.0L (305") & 5.7L (350") Gas Engines	
Oil Pan-to-Block	
1/8"-20 Bolts	6-7
5/16"-18 Bolts	13-14
7.4L (454")	
Oil Pan-to-Block	11-12
Oil Pan-to-Front Cover	4-5
5.7L (350") Diesel	
Oil Pan-to-Block	9-11

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

JEEP

4-CYLINDER ENGINES

Disconnect battery negative cable. Raise vehicle and drain oil. Remove starter. Remove oil pan bolts and remove oil pan.

6-CYLINDER ENGINES

Disconnect battery negative cable. Raise vehicle and drain oil. Remove starter. On "CJ" and Scrambler models, position a floor jack under transmission housing, disconnect right support cushion bracket from block and raise engine enough to gain clearance for oil pan removal. On all models, remove oil pan attaching bolts and remove oil pan, seals, and side gaskets.

V8 ENGINES

Disconnect battery cable and drain engine oil. On "CJ" and Scrambler models, remove frame crossmember and automatic

transmission cooler lines (if equipped). If necessary, cut corner of right side engine mount to provide clearance for removal of oil pan. On all models, bend tabs down on dust shield if equipped with manual transmission. Remove oil pan attaching bolts and remove oil pan from engine.

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	Ft. Lbs.
All Engines	
1/4"-20 Bolts	7
5/16"-18 Bolts	11

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