

## FORD MOTOR CO.

### 4 CYLINDER MODELS

Drain crankcase, remove dipstick and flywheel inspection cover. Disconnect steering shaft flex coupling from rack and pinion, then disconnect rack and pinion from crossmember and move it forward. Remove oil pan bolts and remove oil pan.

### 6 CYLINDER MODELS

1) Disconnect oil cooler lines and top support bolts from radiator. Remove dipstick and raise vehicle. Drain crankcase and remove starter. Disconnect sway bar to chassis bolts and allow bar to hang down. Remove "K" brace and lower front steering rack and pinion (on Fairmount and Zephyr models only).

2) Loosen rear insulator to crossmember bolts and remove engine mount bolts. Raise engine and place 1 1/4" spacer between engine support insulator and chassis bracket.

3) Position jack under transmission and raise slightly. Remove oil pan attaching bolts and lower pan to crossmember. Clear cooler lines and remove oil pan (it may be necessary to rotate crankshaft).

### V6 MODELS

Drain crankcase and cooling system. Remove dipstick and disconnect upper and lower radiator hoses at radiator. Remove fan shroud bolts and slide shroud back over fan. Disconnect battery cable at battery. Raise vehicle and disconnect automatic transmission cooler lines at radiator (if equipped). Disconnect steering gear (and power steering hoses, if equipped) and position out of way. Disconnect stabilizer bar at ends and rotate to provide clearance. Remove splash shield and starter. Remove front engine support nuts. Raise engine and position wood blocks between engine support and frame. Remove oil pan. When installing oil pan, tighten oil pan screws in sequence as shown in Fig. 1.

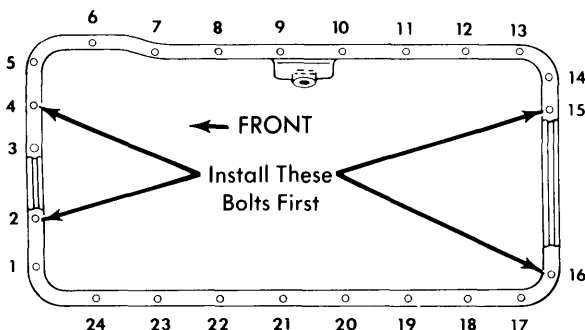


Fig. 1 V6 Oil Pan Tightening Sequence

### V8 MODELS

**Fairmount & Zephyr W/302"** – Disconnect battery and remove fan shroud bolts, positioning shroud back over fan. Raise vehicle and drain crankcase. Remove bolts attaching steering gear to main crossmember and let steering gear rest on frame away from oil pan. Remove engine mount bolts and raise engine. Place two wood blocks (2"x4") between engine mounts and frame. Remove rear "K" brace and oil pan bolts. Lower pan to frame and remove oil pump attaching bolts. Lower pump into pan and remove oil pan. Rotate crankshaft as necessary to clear counterweights.

**Mustang II W/302"** – Disconnect battery cable, remove fan shroud bolts and slide shroud back over fan. Raise vehicle and

support on safety stands. Drain crankcase and remove attaching bolts and number 2a crossmember. Remove attaching screw from flex joint to release steering pinion shaft and remove steering gear from crossmember. Remove bolts securing stabilizer bar to frame and move bar down. Remove starter cable and starter. Remove oil pan.

**Granada & Monarch W/302"** – Raise vehicle and drain crankcase. Remove stabilizer bar and engine front support through bolts. If equipped, remove nut and bolt holding power steering lines to rear side of lower arm. Remove idler arm bracket and pull linkage down out of way. Remove oil pan bolts and remove pan.

**Versailles W/302"** – Disconnect battery and remove shroud attaching screws. Raise vehicle and drain crankcase. Remove stabilizer bar and front mount through bolts. Loosen transmission cooler lines and move aside. Raise engine and block up with 2" x 4" under engine mount. Remove oil pan bolts and remove pan.

**LTD II, Cougar and Thunderbird W/302", 351" & 400"** – Remove dipstick and fan shroud bolts. Position shroud over fan. Raise vehicle and drain crankcase. Remove stabilizer bar and front mount through bolts. Raise engine and block up with wood blocks between front support and chassis bracket. If equipped, disconnect oil cooler lines at radiator. Remove oil pan attaching bolts and lower pan onto crossmember. Rotate crankshaft as necessary to clear pan.

**All Models W/351" M & 400"** – Disconnect battery and remove dipstick. Remove fan shroud bolts and position air inlet tube and shroud over fan. Raise vehicle and drain crankcase. Remove sway bar (if equipped), and lower for clearance. Remove front engine support through bolts and block up with wood block. Remove oil pan bolts and position cooler lines out of way. Remove oil pan.

**Continental, Mark V W/460"** – Disconnect battery and remove cooler lines from radiator. Remove air intake duct and shroud attaching bolts. Position shroud over fan. Raise vehicle and drain crankcase. Remove "X" brace below oil pan. Remove end attachment of front stabilizer bar and rotate down to raise center of bar. Support engine with jack and remove mount through bolts. Raise engine and block up with wood block. Remove oil pan bolts and lower pan onto No.2 crossmember. Remove pan.

**Ford & Mercury W/460"** – Disconnect air inlet tube and battery. Remove shroud attaching bolts and position shroud over fan. Raise vehicle and drain crankcase. Remove sway bar attaching bolts and bushing that attach lower arm to sway bar. Move bar forward on struts. Raise engine with jack and block with wood block. Remove front mount bolts and oil pan bolts. Rotate crankshaft to clear pan and remove oil pan.

FORD MOTOR CO.	
TIGHTENING SPECIFICATIONS	
Application	Ft. Lbs.
Oil Pan Bolts	
4 Cyl Models	
6 mm Bolts	6-8
8 mm Bolts	8-10
6 Cyl. Models	7-9
V6 Models	5-7
V8 Models	
1/4" Bolts	7-9
5/16" Bolts	9-11