

Oil Pan Removal

FORD MOTOR CO. (Cont.)

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	Ft. Lbs.
300"	10-15
302" & 351-W"	
$\frac{1}{4}$ "	7-9
$\frac{5}{16}$ "	8-11
360" & 390"	8-10
460"	
$\frac{1}{4}$ "	7-9
$\frac{5}{16}$ "	9-11

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

GENERAL MOTORS

6 CYLINDER ENGINE

ALL MODELS

Drain crankcase. Disconnect battery ground cable, then remove radiator upper mounting panel and position a heavy piece of cardboard between the fan and radiator. Remove starter (manual transmission models) and flywheel underpan or converter housing underpan and splash shield. Remove front mount through bolts, raise engine approximately 3" and reinstall bolts through bracket. Lower engine so brackets (with bolts installed) rest on frame portion on motor mounts. Remove oil pan attaching bolts and remove oil pan from vehicle.

V8 ENGINES

ALL MODELS EXC. GMC MOTOR HOME

Raise vehicle on hoist and drain crankcase. Remove oil dipstick tube assembly from pan. Remove exhaust crossover pipe (if equipped) and converter housing under pan (automatic transmission only). Remove starter brace and inboard starter bolt, then swing starter aside. Remove oil pan attaching bolts and remove oil pan from vehicle.

GMC MOTOR HOME

Remove transmission and final drive. See *Engine Removal Section*. Drain crankcase. Disconnect relay tie rod from idler arm and relay lever. Disconnect steering shock absorber from crossmember bracket. Remove left hand lower venturi ring bracket and disconnect power steering pump. Remove front

support-to-engine bolts and support-to-mount bolts. Remove flywheel attaching bolts and flywheel. Raise engine approximately one inch and remove oil pan attaching bolts and oil pan from vehicle.

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	INCH Lbs.
6 Cylinder Engine	
Pan-to-Block	
$\frac{1}{4}$ -20 Bolts	80
$\frac{5}{16}$ -18 Bolts	75
Pan-to-Front Cover	50
350" & 400" V8	
Pan-to-Block	
$\frac{1}{4}$ -20 Bolts	80
$\frac{5}{16}$ -18 Bolts	65
454" & 455" V8	
Pan-to-Block	
$\frac{1}{4}$ -20 Bolts	55
$\frac{5}{16}$ -18 Bolts	135

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

INTERNATIONAL HARVESTER

NOTE — Oil pan removal information for International Harvester models was not available from manufacturer at time of publication.