

GENERAL MOTORS

TIGHTENING SPECIFICATIONS

Oil Pan Attaching Bolts	INCH Lbs.
4 & 6 Cyl. Engines	
Pan-to-Block (1/4-20 Bolts)	
1965.....	72-90
1966-74	80
Pan-to-Block (5/16-18 Bolts)	
1965.....	108-144
1966-70	125
1971-74	① 75
Pan-to-Front Cover	
1965.....	72-90
1966-71	55
1972-74	50
V8 Engines (283", 307", 327" & 350")	
Pan-to-Block (1/4-20 Bolts)	
1965.....	72-90
1966-74	80
Pan-to-Block (5/16-18 Bolts)	
1965.....	150-180
1966-74	65
V8 Engines (396", 402", 454" & 455")	
Pan-to-Block (1/4-20 Bolts)	
1968-74	135
Pan-to-Block (5/16-18 Bolts)	
1968-73	80
1974.....	55

① — 1971-72 "G" models should be 125 INCH lbs.

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

4 & 6 CYLINDER ENGINES

1965-74 ALL MODELS EXCEPT "G"

Disconnect battery ground cable and raise vehicle on hoist. Disconnect starter at engine and position to one side. Drain crankcase and remove flywheel (converter) cover. Remove front mount-to-crossmember bracket attaching bolts. Raise engine enough to position 2" x 4" wood blocks between mounts and brackets. Remove engine mount spacer (if equipped), oil pan attaching bolts and oil pan from vehicle.

1966-69 "G" MODELS

1) Disconnect battery ground cable. Remove fan, pulley, radiator shroud, splash shields, accessory drive pulley (if equipped) and starter. On 1967-68 models, drain radiator and disconnect transmission oil cooler lines (if equipped) and lower radiator hose.

2) Install suitable tool (J-6978-1) on torsional damper with shoulder of tool toward damper. Position jack under tool and remove front motor mount-to-bracket attaching bolts. Raise engine enough to clear brackets.

3) Remove crossmember-to-frame attaching bolts and allow crossmember to rest on front springs. Remove oil pan attaching bolts and oil pan from vehicle.

1970-74 "G" MODELS

Disconnect battery ground cable and raise vehicle on a hoist. Disconnect starter at engine and position to one side. Drain crankcase and remove flywheel (converter) cover. Remove front motor mount-to-crossmember bracket attaching bolts. Raise engine and position 2" x 4" wood blocks between mounts and brackets. Remove oil pan attaching bolts and oil pan from vehicle.

V8 ENGINES

1965-74 ALL MODELS EXCEPT GMC MOTOR HOME

Raise vehicle on a hoist and drain crankcase. Remove oil dipstick and tube from vehicle. Remove exhaust crossover pipe (if equipped) and converter housing under pan (automatic transmission only). On 1968-74 models, remove starter brace and inboard bolt, then swing starter aside. On 1967-73 models, remove front mount-to-bracket attaching bolts, raise engine and position 2" x 4" wood blocks between mounts and brackets. Remove oil pan attaching bolts and oil pan from vehicle.

1972-74 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.

V6 ENGINES

1965-69 ALL MODELS

Raise vehicle on a hoist and drain engine crankcase. Remove oil pan attaching bolts and oil pan from vehicle.

3 CYLINDER DIESEL ENGINES

1967-68 ALL MODELS

Raise vehicle on a hoist and drain engine crankcase. Remove oil pan attaching bolts and oil pan from vehicle.