

Oil Pan Removal

GENERAL MOTORS (Cont.)

CHEVROLET (Cont.)

All Models (196" & 231" VIN A,C & 2) — Raise vehicle, drain crankcase and remove flex plate cover. Remove crossover pipe, oil pan bolts and pan.

V8 MODELS

NOTE — Oil pan removal will vary on same size engines depending upon body style.

The following are special instructions that apply to specific models. They should be used in conjunction with the complete procedures that follow:

- Malibu, El Camino — Remove dipstick and tube.
- Impala, Caprice — If equipped with air conditioning, remove vacuum reservoir.
- Nova, Camaro — Remove distributor cap and move aside. If equipped with heavy duty radiator, remove one piece shroud.
- Corvette — Disconnect idler arm and lower steering linkage. Remove flywheel splash shield.

1) Disconnect negative battery cable and remove air cleaner. Remove upper half of fan shroud (except Nova and Camaro with H.D. radiator). Raise vehicle and drain crankcase. Remove

exhaust crossover pipe at manifold and converter. Remove torque converter cover. On manual transmission, remove starter and flywheel cover.

2) Remove engine mount through bolt and oil pan bolts. Raise engine and reinstall through bolts to hold engine. Remove oil pan bolts and lower pan, if necessary, rotate crankshaft to clear oil pan. Remove pan from vehicle.

CHEVROLET

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
4 Cyl. Models	
151" (VIN 1)	
Front	4
Sides	7
151" (VIN V, 9)	7
Chevette	5
6 Cyl. Models	
250" L6 (VIN D)	
Front	4
Sides	7
200" V6 (VIN M)	7
196" & 231" (VIN C,A,2)	14
V8 Models, All	7

OLDSMOBILE

4 CYLINDER MODELS

Raise vehicle and drain crankcase oil. Remove rear section of frame crossmember. Disconnect exhaust pipe at manifold and loosen bracket. Remove starter and flywheel cover. Disconnect steering linkage at steering gear and idler arm support. Remove oil pan bolts, tap pan loose and remove pan.

V6 MODELS

Starfire & Cutlass — Raise vehicle and drain crankcase. Remove crossover pipe and flywheel cover. Remove oil pan bolts and pan.

All Other Models — Disconnect battery cables and fan shroud to radiator screws. Remove air cleaner and disconnect throttle and transmission linkage at intake manifold. Raise vehicle and drain crankcase. Remove flywheel cover and shift linkage. Disconnect exhaust crossover pipe and front engine mount bolts. Disconnect idler arm at frame and swing down. Raise engine, remove oil pan bolts and pan.

V8 MODELS

Toronado (350" Gas & Diesel) — 1) Disconnect battery cable and fan shroud. Remove right drive axle cotter pin, retainer and nut. Raise vehicle and remove right front wheel. Disconnect right tie rod end using suitable tool (J-6027) and upper ball joint. Remove drive axle to output shaft bolts.

All Other Models (260" & 350" Diesel) — 1) Remove drive and vacuum pump (A/C cars) or oil pump drive (non-A/C). Disconnect battery cables, remove dipstick and tube. Remove upper radiator support and fan shroud tubes.

All Other Models (260", 350" & 403" VIN F,K,R) — Remove distributor cap and align rotor in number 1 firing position. Disconnect battery and remove dipstick. Remove upper radiator support and shroud screws. Raise vehicle and drain crankcase. Remove flywheel cover and disconnect exhaust and crossover pipes. Remove starter and engine mounts. Lift engine as far as possible and remove oil pan bolts and pan.

All Models (305" & 350" VIN G,H,L) — 1) Disconnect battery and remove air cleaner. Remove upper portion of shroud. Use the following instructions that apply to specific models:

GENERAL MOTORS (Cont.)

OLDSMOBILE (Cont.)

- Omega with H.D. cooling — remove one piece shroud.
- 88 with A/C — remove vacuum reservoir.
- Cutlass — remove dipstick.
- Omega — remove distributor cap, move aside.

2) Raise vehicle and drain crankcase. Remove exhaust crossover pipe and engine mount through bolts. On manual transmission, remove starter. Remove converter or flywheel lower cover. Remove oil pan bolts and lower pan. Raise engine and install through bolts to hold. Remove oil pan.

All Models (301" VIN Y) — Disconnect battery and fan. Move compressor and brackets aside for clearance if necessary. Disconnect Pitman arm and idler arm from intermediate shaft using suitable tool (J24319-01). Remove front mount to frame nuts and shroud. Drain crankcase. Raise engine, remove right engine mount, remove oil pan bolts and pan.

OLDSMOBILE	
TIGHTENING SPECIFICATIONS	
Application	Ft. Lbs.
4 Cyl. Models	
151" (VIN 1)	
Front	4
Sides	7
151" (VIN V, 9)	7
V6 Models (VIN A, 2)	14
V8 Models	
305" & 350" (VIN G,H,L)	
1/4" bolts	7
5/16" bolts	22
301" (VIN Y)	12
All Others	10

PONTIAC

4 CYLINDER MODELS

Phoenix — Disconnect battery and remove fan. Raise vehicle and drain crankcase. Disconnect exhaust system and remove starter. Remove flywheel inspection cover. Raise engine and remove mount bolts. Remove oil pan bolts and raise engine enough to remove oil pan.

Sunbird — Disconnect battery and raise vehicle. Drain crankcase and disconnect exhaust system. Remove flywheel lower cover and disconnect steering linkage at steering gear and idler arm support. Remove rear section of frame crossmember. Remove oil pan bolts and oil pan.

V6 MODELS

Raise vehicle and drain crankcase. Remove flywheel cover and exhaust system. Remove oil pan.

NOTE — Some vehicles may require removal of rear transmission mount and lifting at rear to allow pan removal.

V8 MODELS

All Models (305" & 350" VIN G,H,L) — Raise vehicle and drain crankcase. Remove dipstick and tube. Remove exhaust crossover pipe. Remove converter housing under pan if equipped. Remove starter brace and inboard bolt and swing starter aside. Remove oil pan bolts and pan.

All Models (350" & 403" VIN R & K) — 1) Align rotor to number 1 firing position. Disconnect battery cable and remove dipstick. Remove upper radiator support and fan shroud screws. Raise vehicle and drain crankcase. Remove flywheel cover.

2) Disconnect exhaust and crossover pipes. Remove starter and motor mounts from engine. Raise front of engine up as far as possible using suitable support tool (J-23515) and adaptor (J-23515-20) or (BT-6501). Remove oil pan bolts and pan.

All Models (305" VIN X) — Disconnect battery and remove shroud. Remove air cleaner and disconnect throttle linkage.

Raise vehicle and drain crankcase. Disconnect exhaust system and remove flywheel lower cover. Remove shift linkage and front engine mount bolts. Support right side of engine to prevent cocking to right when engine is raised. Lift engine and remove oil pan bolts and pan.

All Models (301" & 400" VIN Y,W,Z) — 1) Disconnect battery cables and remove fan. Move compressor and brackets aside for clearance if necessary. Remove distributor cap and set aside. Raise vehicle and drain crankcase. Disconnect exhaust system and remove starter. Remove flywheel cover and rotate crankshaft until number 1 cylinder is at bottom dead center.

2) Loosen fuel pump to timing cover bolts for clearance and attach suitable lifting tool (J-23515) to engine and crossmember. Raise engine slightly and remove engine mount through bolts. Remove oil pan bolts, and allowing tool to swing freely, lift engine until oil pan can be removed.

NOTE — The oil pan on 301" Y and W VIN codes have no inner baffle. 400" VIN code Z, have inner baffle when equipped with axle ratios 3.08 to 1, and above. All Firebird series 400" engines have inner baffles.

PONTIAC	
TIGHTENING SPECIFICATIONS	
Application	Ft. Lbs.
4 Cyl. Models	
151" (VIN 1)	
Front	4
Sides	7
151" (VIN V)	6
V6 Models	14
V8 Models	
305" & 350" (VIN G,H,L)	7
350" (VIN X)	14
350" & 403" (VIN R, K)	10
301" & 400" (VIN Y,W,Z)	12