

Engine Removal

JEEP

6 CYLINDER ENGINES

232" & 258" MODELS

1) Mark hinge positions on hood and remove hood on all models except "CJ" and Wagoneer. Remove air cleaner and drain cooling system. Disconnect radiator hoses and transmission oil cooler lines. *NOTE - If equipped with radiator shroud, separate shroud from radiator.* Remove radiator and fan.

2) Remove power steering pump and bracket assembly and position to one side leaving hoses connected. If equipped with air conditioning, turn both service valves clockwise to front seated position and bleed refrigerant charge by slowly loosening service valve fittings. Disconnect condenser and evaporator lines from compressor and receiver outlet at disconnect coupling. Remove condenser and receiver assembly.

3) Disconnect all wires, lines, linkage and hoses connected to engine. Remove oil filter and front support bolts. Disconnect exhaust pipe at manifold and support bracket. Remove front support to frame retaining nuts and support weight of engine using suitable lifting device. Remove front support and bracket assemblies from engine.

4) Remove transfer case shift lever boot, floor mat and transmission access cover. Remove upper bolts securing transmission to engine adapter plate or clutch housing to engine. Remove starter. On models equipped with automatic transmission, remove adapter plate inspection covers and mark assembled position of converter and flex plate. Remove converter to flex plate bolts and remaining bolts securing transmission.

5) On models equipped with manual transmission remove clutch housing lower cover and remaining bolts securing clutch housing to engine. On all models, support transmission using a suitable floor jack and remove engine by pulling forward and upward.

V8 ENGINES

304", 360" & 401" MODELS

1) Mark hinge positions on hood and remove hood on all models except "CJ". Remove air cleaner and drain cooling system. Disconnect radiator hoses and transmission oil cooler lines. *NOTE - If equipped with radiator shroud, separate shroud from radiator.* Remove radiator and fan.

2) Drain fluid from power steering pump reservoir and disconnect hoses. If equipped with air conditioning, turn both service valves clockwise to front seated position and bleed refrigerant charge by slowly loosening service valve fittings. Disconnect condenser and evaporator lines from compressor and receiver outlet at disconnect coupling. Remove condenser and receiver assembly.

3) Remove Cruise Command vacuum servo bellows and mounting bracket as an assembly. Remove battery on all models except "CJ". Disconnect all wires, lines, linkage and hoses connected to engine. On automatic transmissions, disconnect filler tube bracket from right cylinder head, fuel return line at fuel filter, and fuel bowl pressure vent line at carburetor. Use suitable lifting device to support engine and remove front support to frame bolts.

4) Remove left front support and bracket from engine on "CJ" models. On "CJ" models with manual transmission, remove transfer case shift lever boot, floor mat, and transmission access cover. On all models remove upper bolts securing transmission to engine adapter plate or clutch housing to engine. Disconnect exhaust pipe at manifold and support bracket, then remove starter.

5) Support transmission using a floor jack. On models equipped with automatic transmission, remove adapter plate inspection covers and mark assembled position of converter and flex plate. Remove converter to flex plate bolts and remaining bolts securing transmission.

6) On models equipped with manual transmission remove clutch housing lower cover and remaining bolts securing clutch housing to engine. Raise engine and pull forward to remove from vehicle.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Automatic Transmission-to-Block	28
Clutch Housing-to-Block	27
Drive Plate-to-Converter	22
Drive Plate or Flywheel-to-Crankshaft	105
Exhaust Pipe-to-Manifold	
6 Cyl. Models	23
V8 Models	20
Front Support Bracket-to-Block	28
Front Support Cushion-to-Crossmember	
6 Cyl. Models	37
V8 Models	33
Rear Support Bracket-to-Transmission	33