

## JEEP

### 6 CYLINDER ENGINES

#### 232" & 258" 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) 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. Remove battery and tray if necessary.

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. Remove battery and tray if required. On Cherokee, Wagoneer, and Truck models, remove heater core housing.

3) Disconnect all wires, lines, linkage and hoses connected to engine. On automatic transmissions, disconnect filler tube bracket from right cylinder head. Use suitable lifting device to support engine and remove front support to frame bolts. On CJ and Commando models, remove transfer case shift lever boot, floor mat (if equipped) and transmission access cover.

4) Remove upper bolts securing transmission or clutch housing to engine. Disconnect exhaust pipes at manifolds and support bracket. Remove starter motor and support transmission using a floor jack. On vehicles with automatic transmission, remove inspection cover, mark assembled position of converter to flex plate and remove converter to flex plate bolts. Remove remaining bolts securing transmission or 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 .....	23
Front Support Bracket-to-Block .....	28
Front Support Cushion-to-Crossmember .....	37
Rear Support Bracket-to-Transmission .....	33