

Engine Removal

CHRYSLER CORP. (Cont.)

heater hoses from radiator. Remove radiator. Remove closed ventilation system from head cover. Remove evaporation control system from head cover.

2) Disconnect all wiring, fuel lines, and carburetor linkage from engine. Disconnect exhaust pipe at manifold. Raise vehicle on hoist. Drain transmission. Remove shift linkage, clutch torque shaft and rods.

3) Remove speedometer cable. Remove gear shift rods. Remove propeller shaft. Install engine support fixture tool (C-3487A or equivalent) and leg (C-3806 or equivalent) to support rear of engine. Remove engine rear support crossmember.

4) Remove transmission bolts from clutch housing. Remove transmission. Lower vehicle. Install engine lifting fixture to cylinder head and attach chain to fixture eye-bolt. Remove engine support fixture. Remove front engine mount bolts. Remove engine from engine compartment.

3.7L (225") Auto. Trans. - 1) Mark hood and hood hinges for installation reference. Remove hood. Drain cooling system. Remove air cleaner assembly. Remove radiator hoses and heater hoses from engine and radiator. Remove radiator.

2) If equipped, remove A/C compressor from engine. Leave refrigerant hoses connected to compressor and position aside. Remove all vacuum lines. Remove distributor cap and wires. Remove carburetor. Remove wires from starter. Remove oil pressure sending unit wire.

3) If equipped, remove power steering hoses. Remove starter motor. Remove alternator. Remove charcoal canister. Remove horns. Disconnect exhaust pipe at exhaust manifold.

4) Remove converter housing-to-engine bolts. Remove converter inspection plate. Mark converter and drive plate for installation reference. Remove torque converter-to-drive plate bolts. Support transmission with a suitable support stand.

5) Attach a "C" clamp to bottom front of converter housing to retain converter. Disconnect engine from drive plate. Install an engine lifting fixture. Attach a chain hoist to lifting fixture eyebolt. Remove front motor mount bolts. Remove engine from engine compartment.

V8 MODELS

5.2L (318") - 1) Mark hood and hinges for installation reference. Remove hood. Drain cooling system. Remove battery. Remove air cleaner assembly. Remove radiator hoses and heater hoses from radiator. Remove radiator. Set fan shroud aside.

2) If equipped, remove A/C compressor from engine with refrigerant lines connected and position aside. Remove all vacuum lines. Remove distributor cap and wiring. Remove carburetor. Remove starter wires. Remove oil pressure sending unit wire.

3) If equipped, remove power steering hoses. Remove starter motor. Remove alternator. Remove charcoal canister. Remove exhaust pipe at manifold. Remove converter housing-to-engine bolts.

4) Mark torque converter and drive plate for installation reference. Remove torque converter-to-drive plate bolts. Support transmission with a suitable support stand. Attach a "C" clamp to bottom front of torque converter housing to retain converter.

5) Disconnect engine from drive plate. Install a suitable engine lifting fixture. Attach a chain hoist to lifting fixture eyebolt. Remove front motor mount bolts. Remove engine from engine compartment.

CHRYSLER CORP. TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N·m)
4-Cyl. Engines	
Motor Mounts-to-Engine	40 (54)
Motor Mounts-to-Frame	40 (54)
Trans. Case-to-Engine Block	70 (95)
6-Cyl. & V8 Engines	
Motor Mount-to-Trans. Extension	50 (68)
Motor Mount-to-Frame	30 (41)
Right & Left Motor Mount-to-Engine	65 (88)
Motor Mount Through Bolt	75 (102)
Drive Plate-to-Converter	23 (31)
Clutch Housing-to-Engine (M/T)	30 (41)
Trans. Case-to-Engine (A/T)	30 (41)

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4-CYLINDER MODELS

1.6L (98") - 1) Mark hinges for reinstallation and remove hood. Remove air cleaner, hot air tube, and alternator air tube. Disconnect negative battery cable at battery. Drain cooling system.

2) Remove all fan belts. Disconnect alternator wiring and remove alternator. Disconnect thermactor pump hoses and remove pump. Disconnect upper and lower radiator hoses at engine. Disconnect transmission oil cooler lines at radiator.

3) Disconnect heater return hose at engine. Disconnect all electrical wiring, vacuum hoses and fuel line at engine. Remove fan

motor and shroud assembly. Remove radiator. Disconnect heater hose at steel tube. If equipped, remove power steering pump filler tube and plug pump opening.

4) Disconnect throttle kickdown linkage, accelerator cable and bracket at engine. Disconnect fuel evaporation hose at metal tube on left fender. If equipped, disconnect power steering pump from mounting brackets. Remove thermactor pump top rear bracket bolt and install lifting eye.

5) If equipped, remove A/C compressor top bracket mounting bolts. Remove A/C compressor inlet line retaining clip from exhaust manifold. Raise vehicle on hoist. If equipped, secure

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power steering pump to dash panel. Remove heater tube clamps. Remove starter ground cable.

6) Remove engine ground strap. Remove knee brace at front of starter motor. On manual transaxle, remove roll restrictor. On all models, remove starter motor and knee brace rear section. Disconnect exhaust system at ball inlet connector. On automatic transaxle, remove converter cover and bracket. On manual transaxle, remove flywheel lower dust cover and brackets.

7) On all models, use puller tool (T81P-6312-A or equivalent) and remove crankshaft pulley. On manual transaxle, remove lower timing belt cover bolt. Remove lower clutch housing bolts. On automatic transaxle, remove converter-to-flywheel nuts. Remove lower converter housing bolts.

8) On all models, remove coolant by-pass hose at intake manifold. Remove lower right side engine mount bolt and nut under insulator. If equipped, remove lower A/C compressor mounting bolts. Lower vehicle. Attach suitable lifting sling to engine lifting brackets. Remove right side engine mount insulator through bolt and remove engine mount.

9) If equipped, remove A/C compressor bracket and position A/C compressor aside, leaving refrigerant lines connected. On manual transaxle, remove timing belt cover. Position floor jack under transaxle and support.

NOTE — Before removing engine, separate converter from flywheel, making sure that converter studs are free and clear of flywheel to prevent damage to studs.

10) Remove upper converter housing/clutch housing attaching bolts and remove engine from vehicle, making sure converter studs are free and clear of flywheel.

2.3L (140") — 1) Raise hood and secure in vertical position. Drain cooling system. Drain crankcase. Remove air cleaner. Remove exhaust manifold shroud. Remove upper and lower radiator hoses. Remove radiator and fan.

2) Disconnect all wiring, vacuum hoses and linkages from engine. If equipped, remove A/C compressor from mounting bracket. Position compressor aside, leaving refrigerant lines connected. Disconnect flexible fuel line at fuel pump.

3) Remove starter. Raise vehicle on hoist. Remove flywheel or converter housing upper attaching bolts. Disconnect muffler inlet pipe from exhaust manifold. Disconnect right and left motor mounts at crossmember pedestal. Remove flywheel or converter housing cover.

4) If equipped with manual transmission, remove flywheel housing lower attaching bolts. If equipped with automatic transmission, remove bolts attaching flywheel-to-torque converter. Remove converter housing lower attaching bolts.

5) Lower vehicle. Support transmission with a suitable jack. Attach engine lifting hooks to engine. Carefully lift engine out of engine compartment.

6-CYLINDER MODELS

3.3L (200") — 1) Mark hinges for reinstallation and remove hood. Drain crankcase and cooling system. Disconnect battery and remove air cleaner. Disconnect all radiator and heater hoses. Disconnect transmission oil cooler lines and remove

radiator. Remove fan, spacer, belt and pulley. Disconnect accelerator linkage, fuel line, all electrical connections and vacuum lines at engine.

NOTE — If engine is equipped with Thermactor system, remove or disconnect all components of system that will interfere with removal of engine.

2) On models equipped with power steering or air conditioning, remove unit from mount and lay aside with hoses attached. Remove starter.

3) On manual transmissions, disconnect the clutch retracting spring. Disconnect clutch equalizer shaft and arm bracket at underbody rail and remove.

4) Raise vehicle on hoist. Remove flywheel or converter housing upper attaching bolts. Disconnect muffler inlet pipe at exhaust manifold. Disconnect right and left motor mounts at crossmember pedestals. Remove flywheel or converter housing cover. Remove flywheel or converter housing lower attaching bolts.

5) If equipped with automatic transmission, remove bolts attaching flywheel-to-torque converter. Lower vehicle. Support transmission with a suitable jack. Attach suitable hoisting equipment to engine lifting brackets. Remove engine from engine compartment.

3.8L (232") V6 — 1) Drain cooling system. Disconnect negative battery cable at battery. If equipped with an under hood light, disconnect wiring connector. Mark position of hood hinges on hood. Remove hood.

2) Remove air cleaner assembly, including air intake duct and heat tube. Remove fan shroud attaching screws. Remove fan and fan clutch as an assembly. Loosen accessory drive belt idler. Remove drive belt. Remove water pump pulley.

3) Disconnect upper and lower radiator hoses at radiator. Disconnect thermactor hose from downstream air tube check valve. Remove downstream air tube bracket from rear of right cylinder head. If equipped, remove power steering pump attaching bolts. Position pump aside with hoses connected.

4) If equipped, remove A/C compressor attaching bolts. Position compressor aside leaving refrigerant hoses connected. Remove alternator attaching bolts. Remove alternator. Disconnect heater hoses from heater tube and water pump.

5) If equipped, remove cruise control servo and attaching parts. Disconnect all vacuum hoses, electrical wiring and linkages from engine. Disconnect fuel inlet pipe and PCV hose at carburetor. Remove carburetor.

6) Leaving the EGR spacer and phenolic gasket in place, install engine lifting plate (T75T-6000-A or equivalent) over carburetor mounting studs. Tighten nuts securely.

CAUTION — Because the intake manifold is made of die-cast aluminum and of light weight design, all studs must be used to secure lifting plate. When using the lifting plate, do not remove the transmission with the engine.

7) Raise vehicle on hoist. Drain crankcase. Disconnect flexible fuel line at fuel pump. Remove dust shield from converter housing. Remove flex plate-to-torque converter bolts. Disconnect battery cable from starter motor. Remove starter motor.