

## N - REMOVE/INSTALL/OVERHAUL

### Article Text

1992 Dodge Colt

For a a a a

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Saturday, April 27, 2002 05:57PM

## ARTICLE BEGINNING

1992 ENGINE PERFORMANCE

Chrysler Motors/Mitsubishi Removal, Overhaul & Installation

Chrysler Motors: Colt, Colt 200, Summit

Mitsubishi: Mirage

## INTRODUCTION

Removal, overhaul and installation procedures are covered in this article. If component removal and installation is primarily an unbolt and bolt-on procedure, only a torque specification may be furnished.

## IGNITION SYSTEM

### DISTRIBUTOR (1.5L)

NOTE: Mirage 1.6L uses Distributorless Ignition System (DIS). For exploded view of distributor on all other models, see Fig. 1.

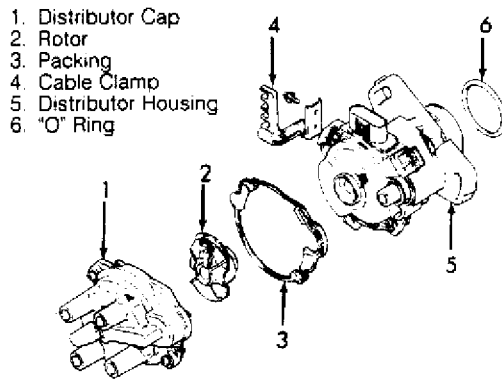


Fig. 1: Exploded View Of Distributor (1.5L)  
Courtesy of Mitsubishi Motor Sales of America.

## FUEL SYSTEM

WARNING: Always relieve fuel pressure before disconnecting any fuel injection-related component. DO NOT allow fuel to contact engine or electrical components.

### FUEL SYSTEM PRESSURE RELEASE

Relieving Fuel Pressure

Remove rear seat cushion to disconnect fuel pump harness

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connector. Start engine. Let engine run until it stops. Turn ignition off. Disconnect negative battery terminal. Connect fuel pump harness connector. Reinstall rear seat (if necessary.)

#### FUEL PUMP

##### Removal & Installation

1) Fuel pump assembly is located inside fuel tank. Release fuel pressure. See FUEL SYSTEM PRESSURE RELEASE. Raise vehicle on hoist. Drain fuel into suitable container. Disconnect electrical connectors and fuel hoses at fuel tank.

2) Remove fuel filler hose from fuel tank. Remove nuts securing fuel tank. Remove fuel tank from vehicle, and remove fuel pump assembly. To install, reverse removal procedure. Tighten nuts to specification. See TORQUE SPECIFICATIONS table at end of article.

#### FUEL RAILS & INJECTORS (PFI)

**WARNING:** Use a rag to cover fuel hose connection before disconnecting high pressure fuel hose at fuel rail. Some residual fuel pressure may still be in system.

##### Removal

Relieve fuel pressure. See FUEL SYSTEM PRESSURE RELEASE. Disconnect negative battery cable. On Mirage 1.6L, disconnect PCV hose. On all models, disconnect high pressure fuel hose at fuel rail. Disconnect fuel return hose and vacuum hoses. Disconnect injector electrical connectors. Remove fuel rail bolts, and lift fuel rail and injectors from engine. Injectors may be removed after fuel rail is removed from intake manifold.

##### Installation

1) To install, reverse removal procedure. Use new insulators and "O" rings when installing injectors.

2) Use spindle oil or gasoline on "O" ring. Install injectors into fuel rail with a twisting motion. DO NOT drop injectors while removing or installing fuel rail.

#### OXYGEN (O2) SENSOR

##### Removal & Installation

1) O2 Sensor is mounted in exhaust pipe below exhaust header. It is equipped with a permanent pigtail which must be protected from damage when sensor is removed. Ensure sensor is free of contaminants. Avoid using cleaning solvents of any type.

2) Sensor may be difficult to remove when engine temperature is less than 120°F (48°C). Always use anti-seize compound on threads before installation. Tighten O2 sensor to specification. See TORQUE SPECIFICATIONS table at end of article.

#### THROTTLE BODY

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#### Removal

Disconnect air intake hose. Remove accelerator and automatic speed control cables (if equipped). Disconnect fuel vapor hose, electrical harness connector, vacuum hose and coolant hoses. Remove throttle body retaining bolts.

#### Disassembly

Remove throttle position sensor. Remove idle speed control motor. Remove throttle bracket and connector bracket (if equipped). Remove idle position switch and adjusting nut.

NOTE: DO NOT remove throttle valve. DO NOT use cleaning solvents on throttle position sensor, idle speed control motor or idle position switch.

#### Cleaning

Clean all parts except throttle position sensor, idle speed control motor and idle position switch in solvent. Check vacuum port and passage for clogging. Clean vacuum, vapor and fuel passages using compressed air.

#### Reassembly

To reassemble, reverse disassembly procedure.

#### Installation

To install, reverse removal procedure.

### THROTTLE POSITION SENSOR

#### Removal & Installation

Throttle Position Sensor (TPS) is located on throttle body. Disconnect TPS electrical connector. Remove TPS screws and TPS. To install, reverse removal procedure. Tighten TPS screws to specification. See TORQUE SPECIFICATIONS table at end of article. For TPS adjustment procedure, see D - ADJUSTMENTS article in the ENGINE PERFORMANCE Section.

### TORQUE SPECIFICATIONS

#### TORQUE SPECIFICATIONS TABLE

Applications	Ft. Lbs. (N.m)
Exhaust Manifold-To-Engine Nuts .....	18-22 (24-30)
Exhaust Pipe Bolts .....	22-29 (30-39)
Fuel Tank Drain Plug .....	11-18 (15-24)
Fuel Tank Nuts .....	15-22 (20-30)
Oil Pipe-To-Engine .....	10-14 (14-19)
Oxygen (O2) Sensor .....	29-36 (39-49)
Plenum-To-Intake Manifold Bolts .....	11-15 (15-20)

INCH Lbs. (N.m)

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Fuel Rail Bolts .....	84-108 (9.0-12.0)
Heat Protector Bolts .....	108-132 (12.0-15.0)
ISC Switch Screws .....	20-54 (2.5-4.5)
TPS Switch Screws .....	13-20 (1.5-2.5)

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**END OF ARTICLE**