

Component Procedures: High Pressure Sensor / Switch

Table of Contents

1. Components (itype_392)
2. Components (itype_32)
3. Procedures (itype_376)
4. Component Tests and General Diagnostics (itype_383)

Component Procedures: High Pressure Sensor / Switch

Components (itype_392)

SYSTEM DESCRIPTION

High Pressure Cut-off Switch

The high pressure cut-off switch is located on the discharge line

near the compressor

. The switch is screwed onto a discharge line fitting that contains a Schrader-type valve, which allows the switch to be serviced without discharging the refrigerant

system. The discharge line fitting is equipped with an O-ring to seal the switch connection.

The high pressure cut-off switch is connected in series electrically with the low pressure cycling clutch switch

between ground and the Powertrain Control Module (PCM)

. The switch contacts open and close causing the PCM to turn the compressor clutch

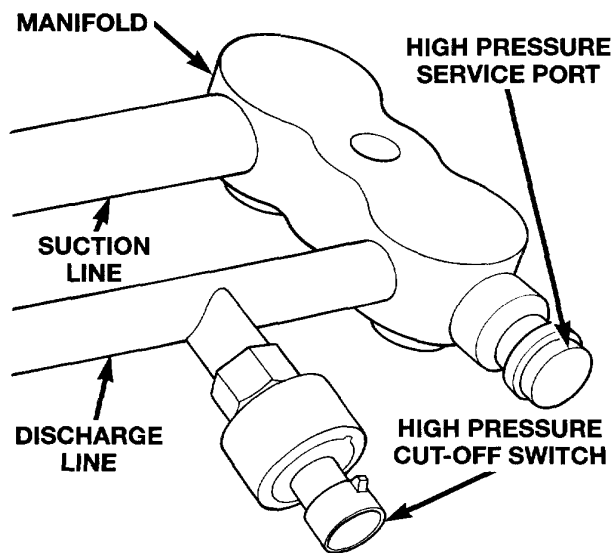
on and off. This prevents compressor operation when the discharge line pressure approaches high levels.

The high pressure cut-off switch contacts are open when the discharge line pressure rises above 3100 to 3375 kPa (450 to 490 psi)

. The switch contacts will close when the discharge line pressure drops to 1860 to 2275 kPa (270 to 330 psi)

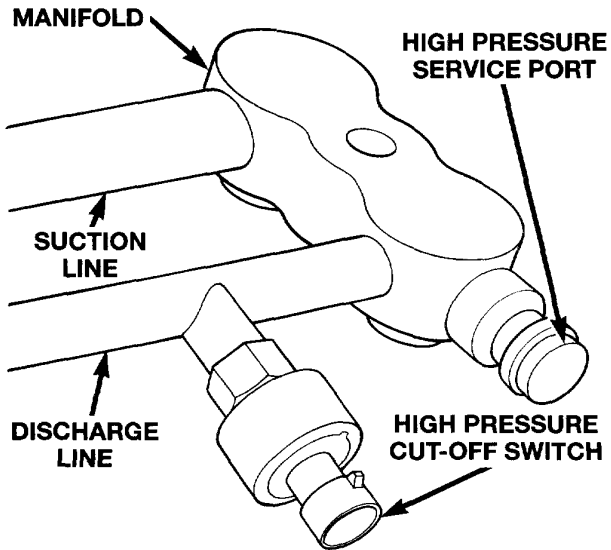
. The high pressure cut-off switch is a factory-calibrated unit. The switch cannot be adjusted or repaired and, if faulty or damaged, it must be replaced.

Components (itype_32)



80add30e

Procedures (itype_376)



80add30e

Component Tests and General Diagnostics (itype_383)

Before performing diagnosis of the high pressure cut-off switch, verify that the refrigerant system has the correct refrigerant charge. See Refrigerant System Charge in the Service Procedures for more information.

1. Disconnect and isolate the battery negative cable.
2. Unplug the high pressure cut-off switch wire harness connector from the switch on the refrigerant system fitting.
3. Check for continuity between the two terminals of the high pressure cut-off switch. There should be continuity. If OK, test and repair the A/C switch sense circuit as required. If not OK, replace the faulty switch.