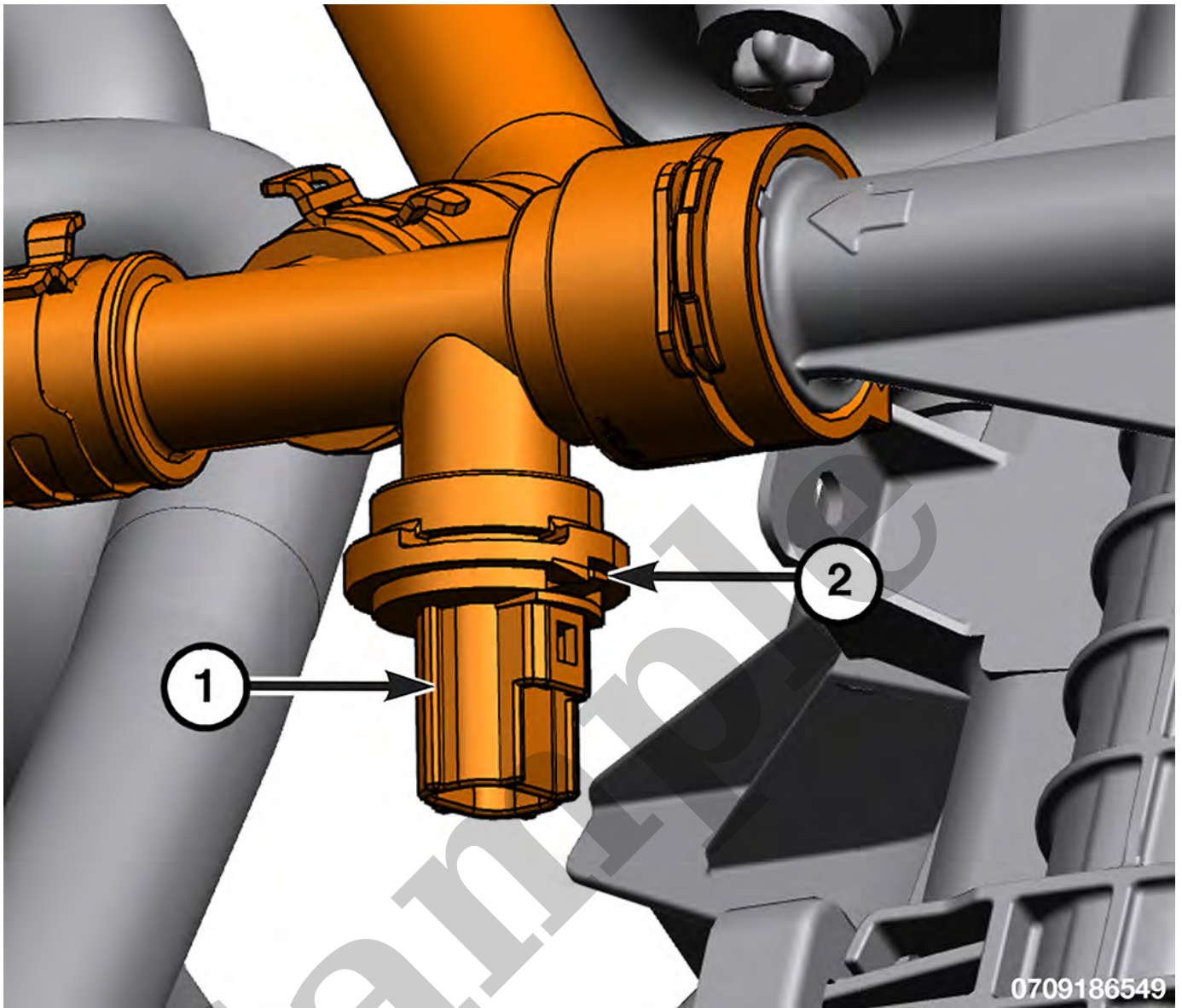


# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2008 Jeep COMPASS PATRIOT Service Manual

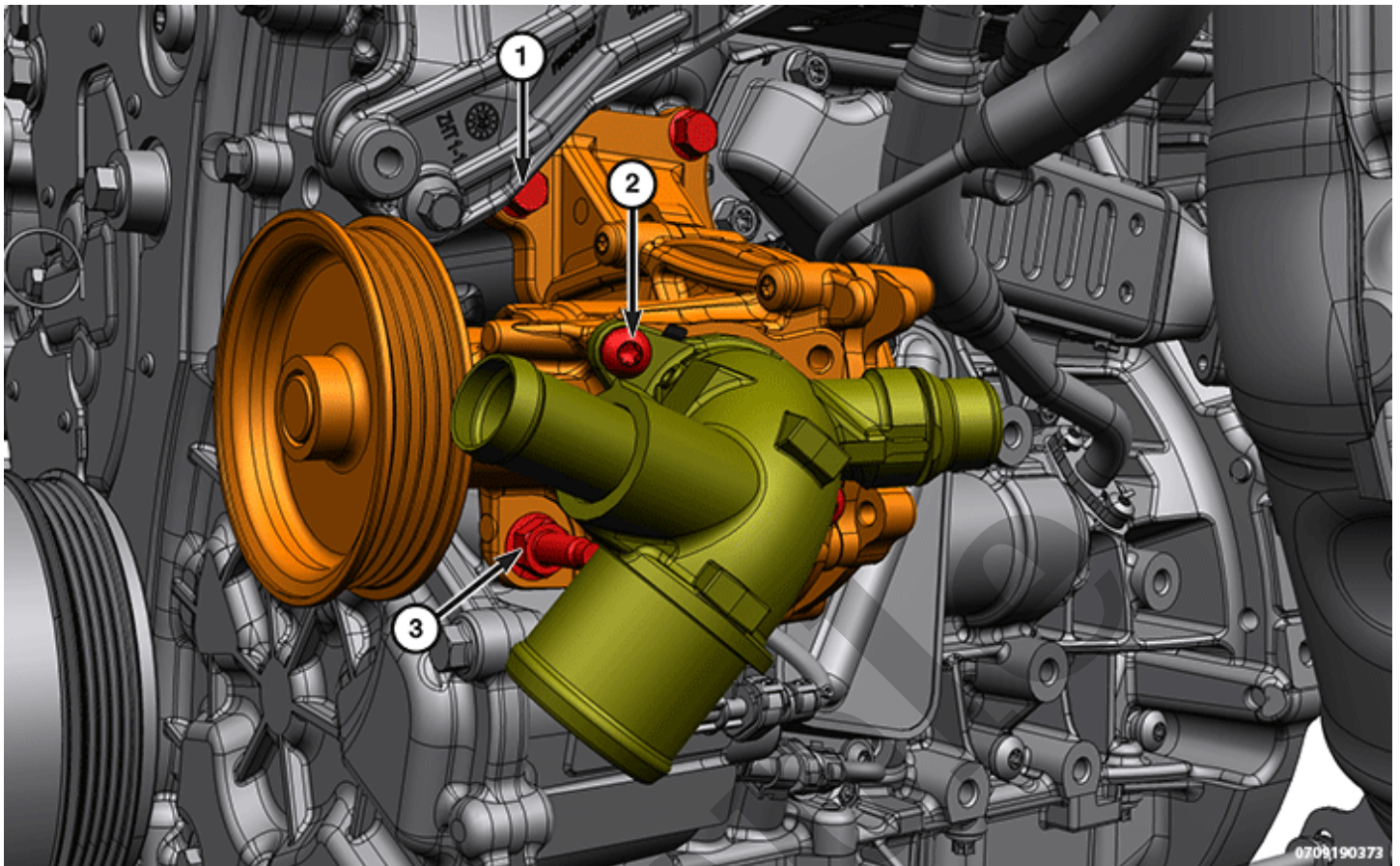
[Go to manual page](#)



1 - Low Temperature Radiator Outlet Temperature Sensor

2 - Lock Tab

6. Lift the lock tab, then rotate counterclockwise and remove the low temperature radiator outlet temperature sensor.



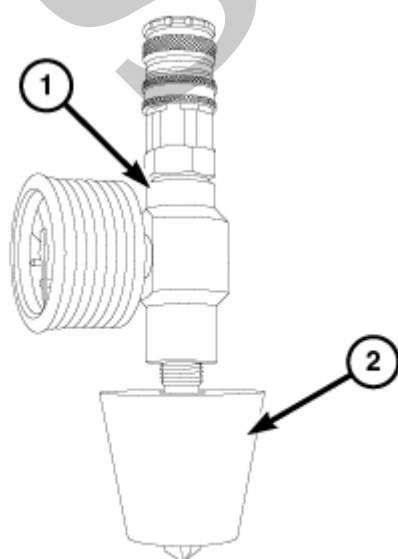
CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Water Pump M8 Bolts	25 N·m (18 Ft. Lbs.)	—
2	Water Pump Inlet Tube M5 Bolts	8 N·m (71 In. Lbs.)	—
3	Water Pump M8 Stud Bolt	25 N·m (18 Ft. Lbs.)	—
–	Ground Wire Nut	9 N·m (80 In. Lbs.)	—
–	Engine Coolant Temperature Sensor	20 N·m (15 Ft. Lbs.)	—
–	Thermostat Housing Bolts	10 N·m (89 In. Lbs.)	—
–	Thermostat Coolant Manifold Bolts	10 N·m (89 In. Lbs.)	—

1. The preferred way to remove air from the cooling system is to use the

Tool, UView Airlift™ Cooling System Refill



or equivalent.



2321100

## Cylinder Head

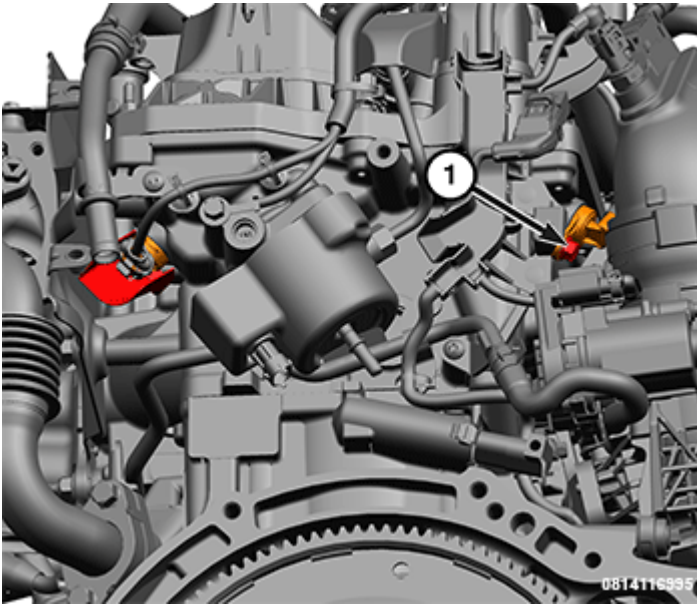
### CYLINDER HEAD

#### WARNING

On vehicles equipped with the high voltage system, disconnecting the 12-volt battery negative cable alone will not power down the 12-volt system. You must perform the 12-volt Power Down procedure before proceeding. Failure to follow these instructions may result in possible serious or fatal injury.

#### REMOVAL

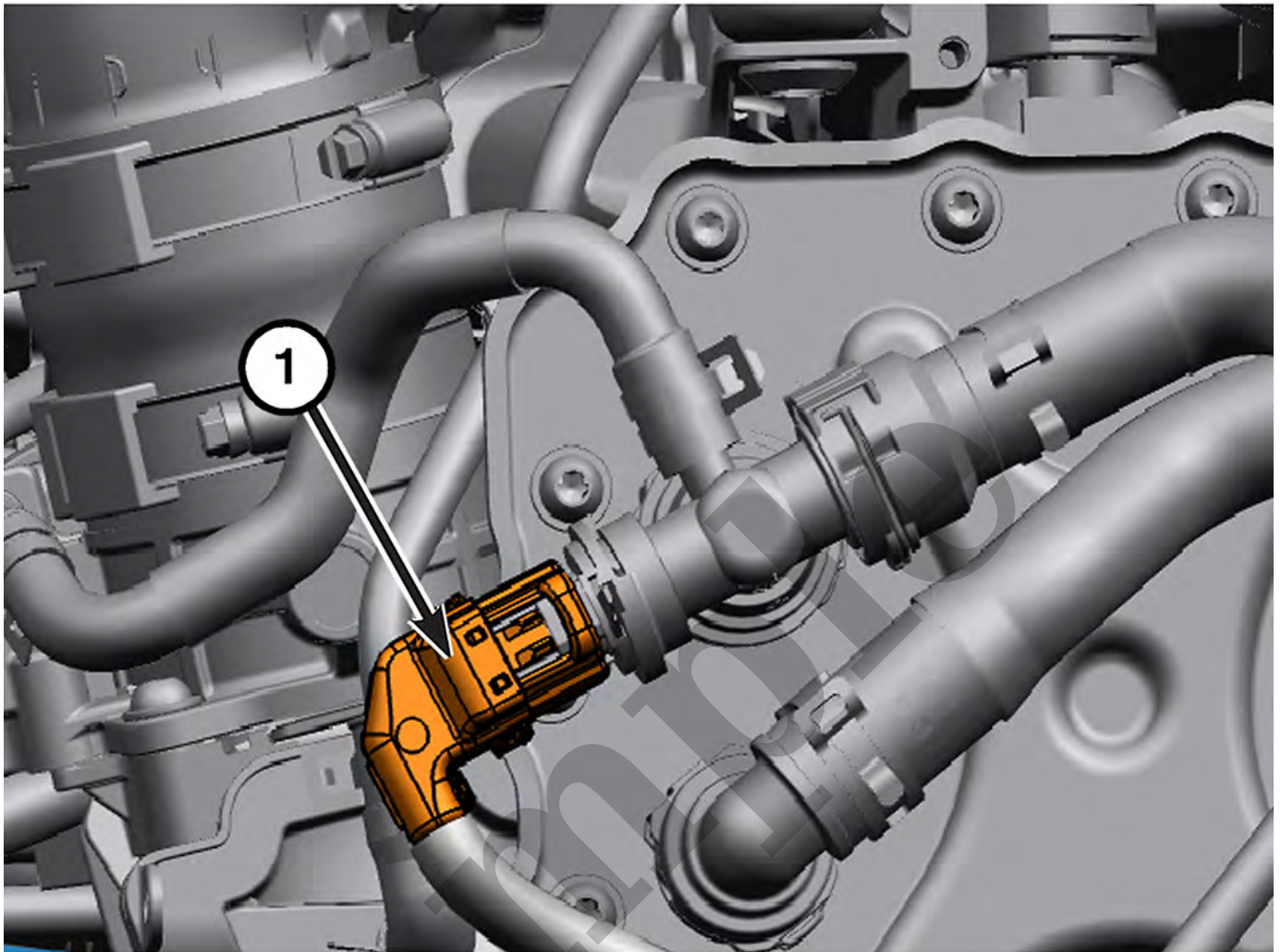
1. Power down the 12-volt system ([Refer to Electrical/Battery System/Standard Procedure](#)).
2. Drain the engine coolant system ([Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure](#)) ([Refer To List 1](#)).
3. Drain the low temp coolant system ([Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure](#)).
4. Recover the A/C refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
5. Remove the cylinder head cover and timing cover ([Refer to Engine/Valve Timing/COVER\(S\), Engine Timing/Removal and Installation](#))([Refer To List 2](#)).
6. Remove the Motor Generator Unit ([Refer to Electrified Powertrain System/Electric Powertrain Control/MOTORS, Electric Drive/Removal and Installation](#)).
7. Remove the A/C compressor ([Refer to Heating and Air Conditioning/Plumbing/COMPRESSOR, A/C/Removal and Installation](#)).
8. Remove the catalytic converter ([Refer to Exhaust System/CONVERTER, Catalytic/Removal and Installation](#)).



1 - Intake and Exhaust Camshaft Position Sensor Harness Connectors

18. Disconnect the intake and exhaust Camshaft Position (CMP) sensor wire harness connectors.

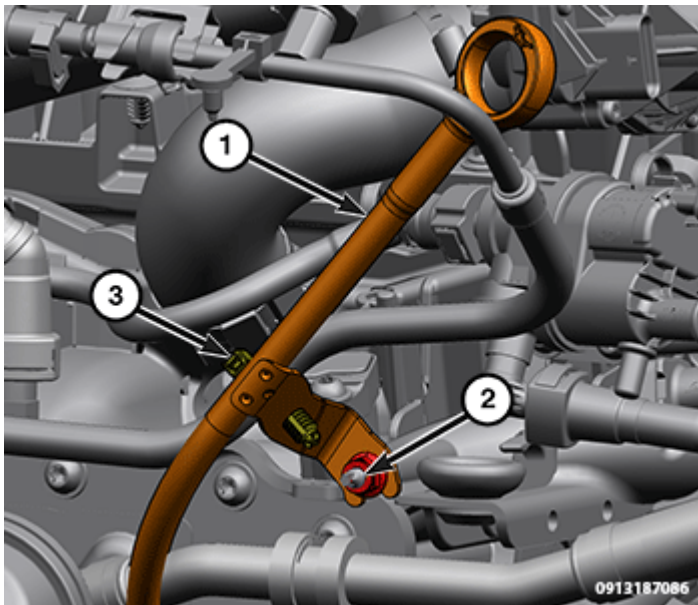




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1 - Charge Air Cooler Coolant Temperature Sensor Harness Connector

23. Disconnect the Charge Air Cooler (CAC) coolant temperature sensor wire harness connector.

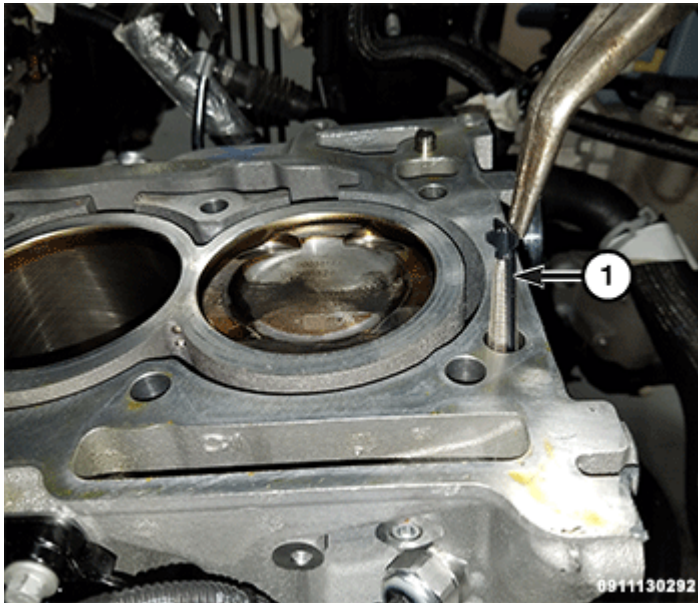


1 - Oil Dipstick Tube
2 - Oil Dipstick Tube Nut
3 - Fuel Line Retainer

30. Remove oil dipstick tube nut securing oil dipstick tube and position it aside.

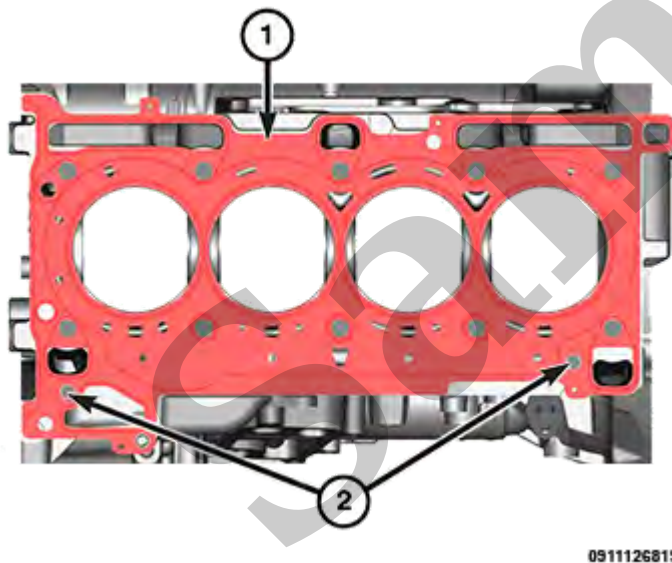
31. Disconnect the vacuum boost hose quick-connect fitting and the fuel vapor purge hose quick-connect fitting from the intake manifold.





1 - Variable Valve Timing Oil Filter

2. Install the variable valve timing oil filter in the engine block.

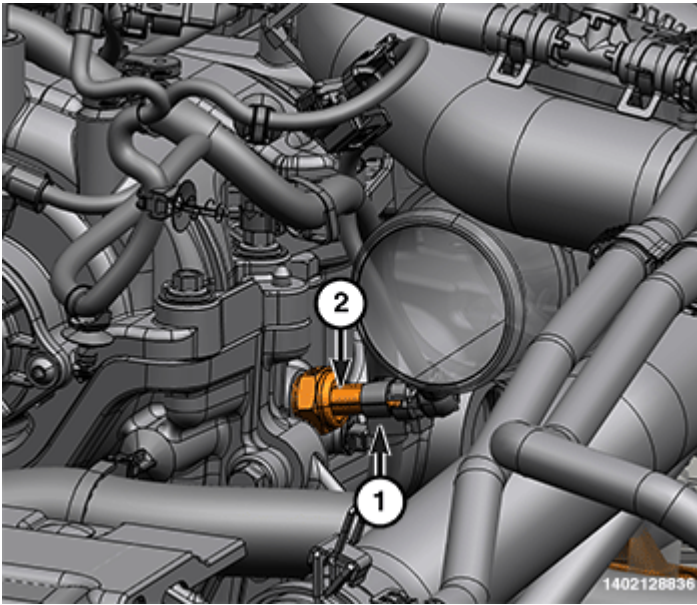


1 - Cylinder Head Gasket

2 - Locating Pins

3. Install a **NEW** cylinder head gasket onto the locating pins.

4. Place the complete cylinder head in position onto the locating pins.



1 - EGR Temperature Sensor Harness Connector

19. Connect the EGR temperature sensor wire harness connector.