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## HG: Positive Crankcase Ventilation (PCV) System

[HG: Pinpoint Tests](#) ➔

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### Introduction

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This pinpoint test is intended to diagnose the following:

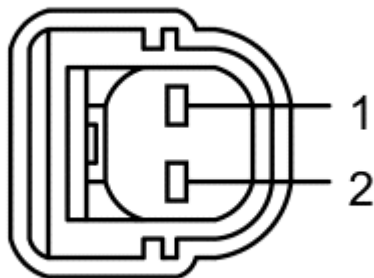
- positive crankcase ventilation (PCV) valve (6A666) and related vacuum lines
- electrically heated PCV valve (6A666) and heater circuit, both PCM and non-PCM controlled
- electrically heated PCV tube (9F624) and heater circuit, both PCM and non-PCM controlled
- powertrain control module (PCM) (12A650)
- PCV thermal extension harness (12A580)

**Note:** For the electrically heated PCV system only, refer to Section 1, [Positive Crankcase Ventilation \(PCV\) System](#).

### Positive Crankcase Ventilation (PCV) Connector

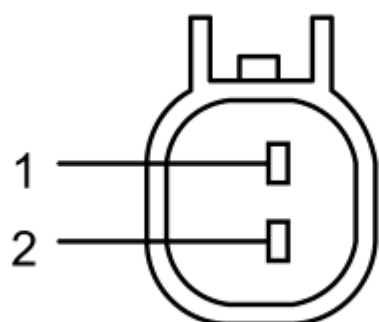
Electrically Heated PCV

**A**



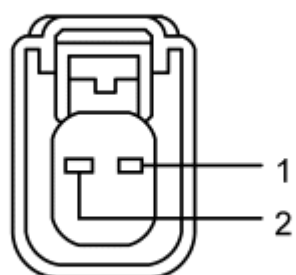
A0077518

**B**



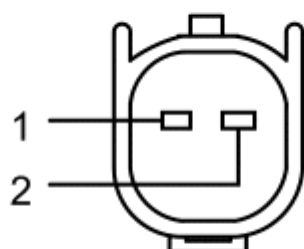
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C



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D

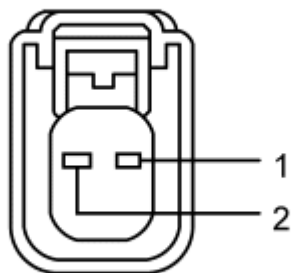


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Vehicle	Connector	Pin	Circuit
Crown Victoria (PCM controlled PCV heater), E-Series 6.8L (PCM controlled PCV heater), E-Series 4.6L (PCM controlled PCV heater), Explorer 4.0L (PCM controlled PCV heater), Explorer Sport Trac 4.0L (PCM controlled PCV heater),  F-150 2V 4.6L (PCM controlled PCV heater), F-150 3V 4.6L (PCM controlled PCV heater), Fusion 3.0L (PCM controlled PCV heater), Grand Marquis (PCM controlled PCV heater), Milan 3.0L (PCM controlled PCV heater), Mountaineer 4.0L (PCM controlled PCV heater), Mustang 4.0L (PCM controlled PCV heater), Mustang 5.4L (PCM controlled PCV heater), Town Car (PCM controlled PCV heater)	A	1 2	PCVHC IGN START/RUN
Expedition (Non-PCM controlled heated PCV tube), Navigator (Non-PCM controlled heated PCV tube)	B	2 1	GND IGN START/RUN
F-150 5.4L (PCM controlled PCV heater)	C	2 1	PCVHC IGN START/RUN
F-Super Duty 5.4L (PCM controlled heated PCV tube)	D	2 1	PCVHC IGN START/RUN
All other vehicles	A	1 2	GND IGN START/RUN

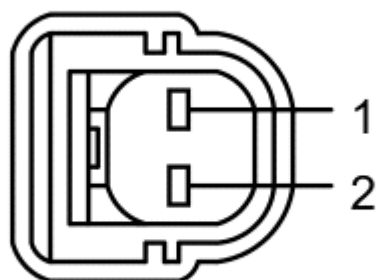
## Positive Crankcase Ventilation Heated Fitting (PCVHF) Connector

A



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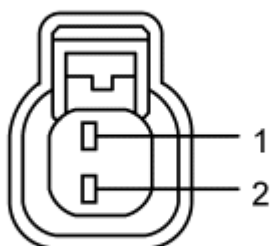
B



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Vehicle	Connector	Pin	Circuit
Expedition, F-150 5.4L, Navigator	A	1 2	PCVHF IGN START/RUN
All other vehicles	B	1 2	PCVHF IGN START/RUN

## Positive Crankcase Ventilation Thermal Extension -Harness Side (PCVTE-Harness Side)



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Pin	Circuit
2	GND (Ground)
1	IGN START/RUN (Ignition START/RUN)

## Powertrain Control Module (PCM) Connector

This table is only for vehicles equipped with a PCM controlled PCV heater.

Vehicle	Connector	Pin	Circuit
E-Series 4.6L, F-150 2V 4.6L	190-Pin	E6 E7	PCVHC PCVHF
E-Series 6.8L, F-Super Duty	170 Pin	E2	PCVHC
Escape/Mariner	190-Pin	E6	PCVHC
Expedition, F-150 3V 4.6L, F-150 5.4L, Navigator	190-Pin	E7	PCVHF
Fusion, Milan	140 Pin	E2	PCVHC
Mustang 5.4L	170 Pin	E67	PCVHC
All other vehicles	170 Pin	E3	PCVHC

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