

DG: Knock Sensor (KS) Introduction

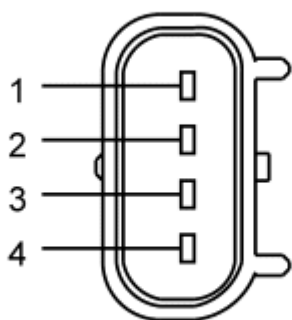
[DG: Pinpoint Tests](#) ➔

This pinpoint test is intended to diagnose the following:

- knock sensors KS1 and KS2 (12A699)
- harness circuits: KS1+, KS1-, KS2+, and KS2-
- powertrain control module (PCM) (12A650)

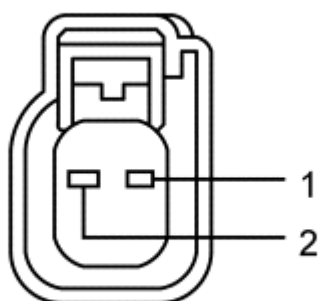
Knock Sensor 1 (KS1) Connector

A



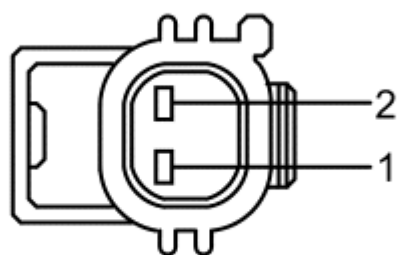
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B



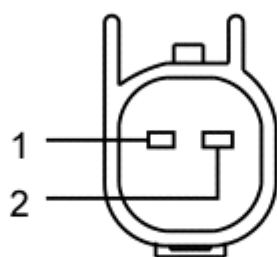
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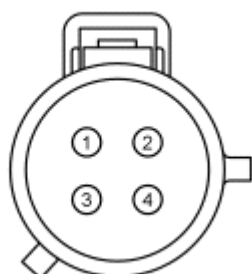
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D



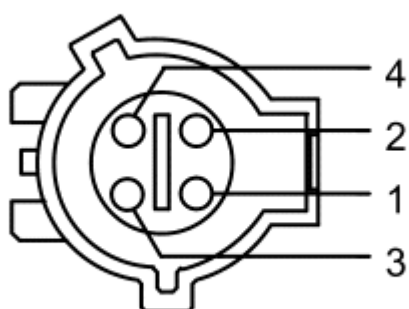
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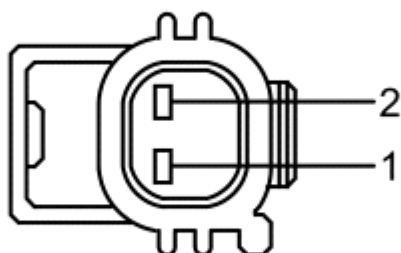
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F



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G



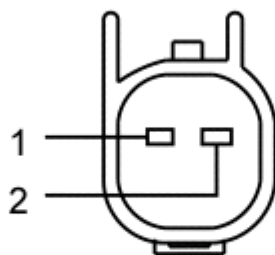
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Vehicle	Connector	Pin	Circuit
Edge, F-Super Duty 6.8L, Flex, MKS, MKX, Sable, Taurus, Taurus X	A	3 4 1 2	KS2+ KS2- KS1+ KS1-
Escape/Mariner 3.0L	B	1 2	KS1+ KS1-
Escape/Mariner 2.5L, Fusion 2.3L, Milan 2.3L	C	1 2	KS1+ KS1-
Expedition, Navigator	D	1 2	KS1+ KS1-
F-150 3V 4.6L	E	4 3	KS2+ KS2-

		2 1	KS1+ KS1-
F-Super Duty 5.4L	D	2 1	KS1+ KS1-
Fusion 3.0L, Milan 3.0L, Ranger 2.3L	C	2 1	KS1+ KS1-
MKZ	A	1 2	KS1+ KS1-
Mountaineer 4.6L	F	1 2	KS1+ KS1-
Mustang 4.6L	F	3 4	KS1+ KS1-
All other vehicles	G	2 1	KS1+ KS1-

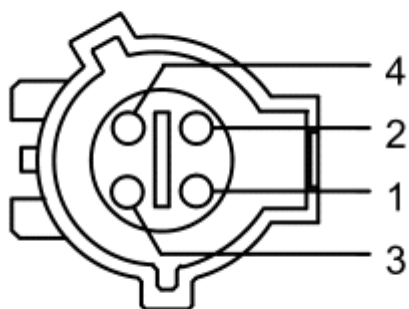
Knock Sensor 2 (KS2) Connector

A



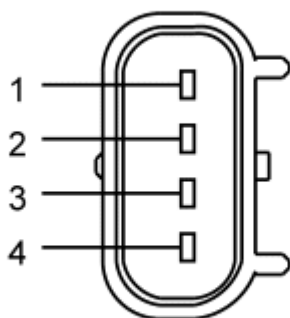
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B



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C



N0025954

Vehicle	Connector	Pin	Circuit
Escape/Mariner, Expedition, F-Super Duty 5.4L, Navigator	A	1 2	KS2+ KS2-
Mustang	B	1 2	KS2+ KS2-
All other vehicles	C	3 4	KS2+ KS2-

Powertrain Control Module (PCM) Connector

For PCM connector views or reference values, refer to [Section 6](#).

Vehicle	Connector	Pin	Circuit
E-Series 4.6L, E-Series 5.4L, F-150 2V 4.6L, Focus	190-Pin	E46 E47 E63 B67	KS1+ KS1- VREF VPWR
Edge, Flex, MKS, MKX, Sable, Taurus, Taurus X	190-Pin	E31 E30 E49 E48 B29, B64 B51	KS2+ KS2- KS1+ KS1- VREF VPWR
Escape/Mariner 3.0L	190-Pin	E60 E59 E43 E42 E35 B67	KS2+ KS2- KS1+ KS1- VREF VPWR

Escape/Mariner 2.5L	190-Pin	E43 E42 E35 B67	KS1+ KS1- VREF VPWR
Expedition, F-150 3V 4.6L, F-150 5.4L, Navigator	190-Pin	E62 E61 E46 E47 E63 B67	KS2+ KS2- KS1+ KS1- VREF VPWR
F-Super Duty, Mustang 4.6L	170 Pin	E31 E30 E49 E48 E57 B35	KS2+ KS2- KS1+ KS1- VREF VPWR
Fusion, Milan	140 Pin	E49 E48 E57 B51	KS1+ KS1- VREF VPWR
MKZ	140 Pin	E31 E30 E49 E48 E57 B51	KS2+ KS2- KS1+ KS1- VREF VPWR
All other vehicles	170 Pin	E49 E48 E57 B35	KS1+ KS1- VREF VPWR

DG: Pinpoint Tests ➡
