

HU: Intake Air Systems Introduction

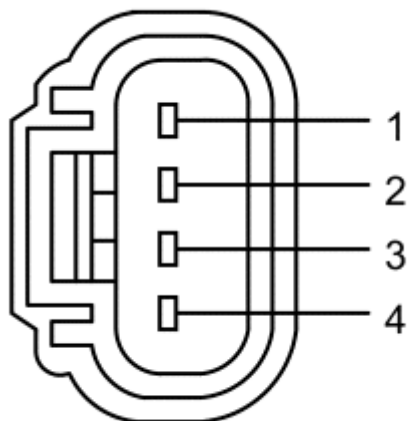
[HU: Pinpoint Tests](#) ➔

This pinpoint test is intended to diagnose the following:

- accelerator cable linkage to throttle body (9C799)
- air cleaner assembly (including air cleaner element) (9600)
- air inlet tube (9F843)
- clean air tube hose and resonator (9R504) and (9F593)
- intake manifold runner control (IMRC) housing assembly (9U531), (9U524) and (9J447)
- IMRC actuator assembly (9J559)
- IMRC (9G730)
- intake manifold tuning valve (IMTV) (9L490)
- IMTV electric actuator assembly (9L490)
- speed control cable (9A825)
- throttle body assembly (9E926)
- harness circuits: IMRC, MONITOR, SIGNAL, SIGRTN, PWRGND, and VPWR
- harness circuits: IMTV, MONITOR, SIGNAL, and VPWR
- powertrain control module (PCM) (12A650)

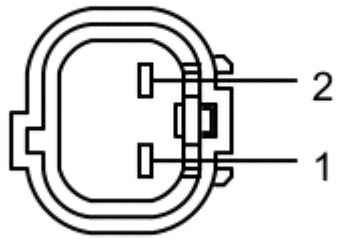
Intake Manifold Runner Control (IMRC) Actuator Connector

A



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B

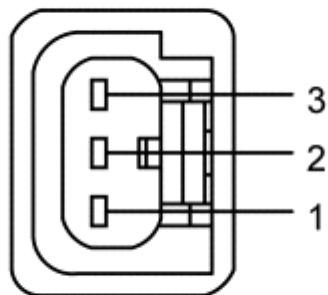


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Vehicle	Connector	Pin	Circuit
Explorer 4.6L, Explorer SportTrac 4.6L, F-150 3V 4.6L, Mountaineer 4.6L, Mustang 4.6L	A	3 2 1	IMRC PWRGND VPWR
Focus	B	2 1	IMRC VPWR
Fusion 2.3L, Milan 2.3L	B	1 2	IMRC VPWR

Intake Manifold Runner Control Monitor (IMRCM) Sensor Connector

For most vehicles the IMRCM is integrated into the IMRC connector.



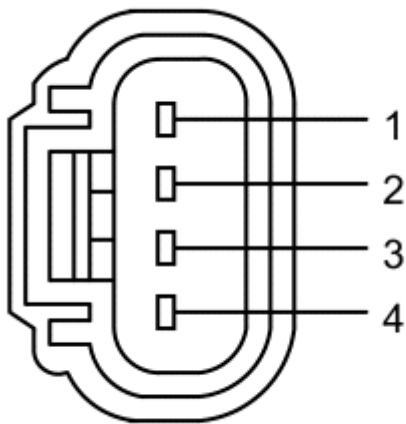
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Vehicle	Connector	Pin	Circuit
Focus	A	1	IMRCM

Fusion 2.3L, Milan 2.3L	A	1 2 3	IMRCM SIGRTN VREF
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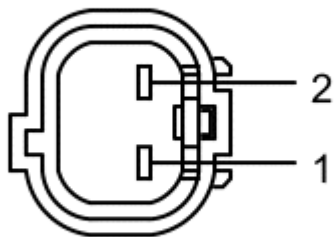
Intake Manifold Tuning Valve (IMTV) Actuator Connector

A



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B



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Vehicle	Connector	Pin	Circuit
F-Series Super Duty 6.8L	A	3 1	IMTV VPWR
Fusion 2.3L, Milan 2.3L	B	1 2	IMTV VPWR

Powertrain Control Module (PCM) Connector

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

Vehicle	Connector	Pin	Circuit
Expedition, Navigator	190-Pin	E64 B22 E43 E50	SIGRTN PWRGND IMRCM IMRC
F-150	190-Pin	E64 B22 E22	SIGRTN PWRGND IMRC
F-Series Super Duty	170 Pin	E58 B47 E64	SIGRTN PWRGND IMTV
Focus	190-Pin	E64 B69 E25 E22	SIGRTN PWRGND IMRCM IMRC
Fusion, Milan	140 Pin	E58 B67 E64 E43 E50	SIGRTN PWRGND IMTV IMRCM IMRC
Mustang	170 Pin	E58 B47 E50 E50	SIGRTN PWRGND IMRCM IMRC
All other vehicles	170 Pin	E58 B47 E50	SIGRTN PWRGND IMRC