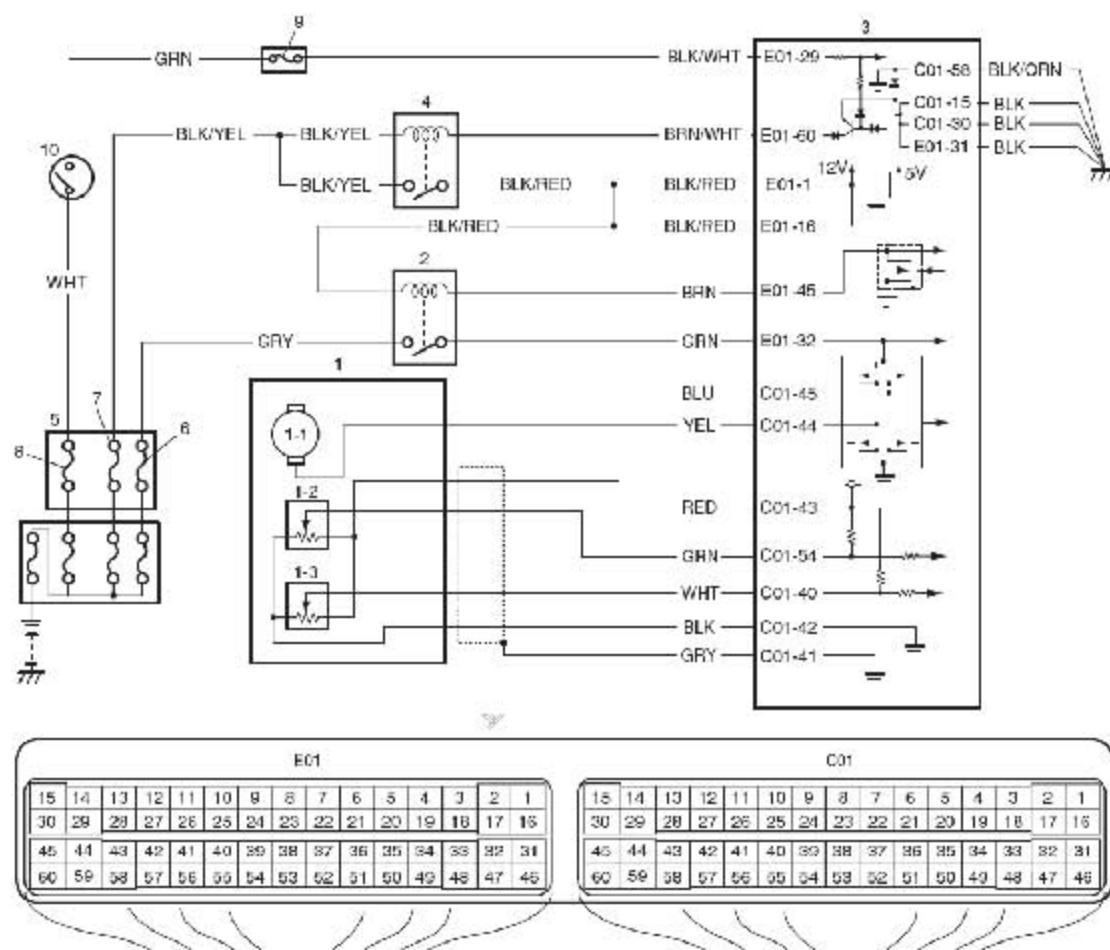


P2101: Throttle Actuator Control Motor Circuit Range / Performance

Wiring Diagram



| | | | | | |
|------|---------------------------------|----|----------------------------------|-----|-----------------|
| 1. | Electric throttle body assembly | 3. | ECM | 8. | "IGN" fuse |
| 1-1. | Throttle actuator | 4. | Main relay | 9. | "IG COIL" fuse |
| 1-2. | Throttle position sensor (main) | 5. | Individual circuit fuse box No.1 | 10. | Ignition switch |
| 1-3. | Throttle position sensor (sub) | 6. | "THR MOT" fuse | | |
| 2. | Throttle actuator control relay | 7. | "FI" fuse | | |

DTC Detecting Condition and Trouble Area

| DTC detecting condition | Trouble area |
|--|---|
| Monitor signal of throttle actuator output (duty output) is inconsistent with throttle actuator control command. (1 driving detection logic) | <ul style="list-style-type: none"> • Throttle actuator circuit • Electric throttle body assembly • ECM |

DTC Confirmation Procedure

- 1) With ignition switch turned OFF, connect scan tool.
- 2) Turn ON ignition switch and clear DTC using scan tool.
- 3) Keep the accelerator pedal at idle position for 2 seconds.
- 4) Keep the accelerator pedal at fully depressed position for 2 seconds.
- 5) Repeat Step 3) and 4) for 3 times.
- 6) Check DTC.

| Step | Action | Yes | No |
|------|---|---------------|---|
| 1 | Was "Engine and Emission Control System Check" performed? | Go to Step 2. | Go to "Engine and Emission Control System Check". |
| 2 | Throttle actuator circuit check 1) Disconnect connectors from electric throttle body assembly and ECM with ignition switch turned OFF. 2) Check for proper connection of electric throttle body assembly and ECM connectors at "BLU" wire, "YEL" wire, "C01-45" and "C01-44" terminals. 3) Turn ON ignition switch. 4) Measure voltage between "BLU" wire terminal of electric throttle body assembly connector and engine ground, between "YEL" wire terminal of electric throttle body assembly connector and engine ground. Is voltage 0 V? | Go to Step 3. | "BLU" wire and/or "YEL" wire is shorted to power circuit. |

| Step | Action | Yes | No |
|------|---|--|--|
| 3 | Throttle actuator circuit check 1) Turn OFF ignition switch. 2) Measure resistance between "BLU" wire terminal of electric throttle body assembly connector and engine ground, between "YEL" wire terminal of electric throttle body assembly connector and engine ground. Is resistance infinity? | Go to Step 4. | "BLU" wire and/or "YEL" wire is shorted to ground circuit. |
| 4 | Throttle actuator circuit check 1) Check throttle actuator referring to "Throttle Actuator Performance Check" under "Electric Throttle Body Assembly On-Vehicle Inspection in Section 1C". Is check result satisfactory? | Substitute a known-good ECM and recheck. | Replace electric throttle body assembly. |

LAUNCH