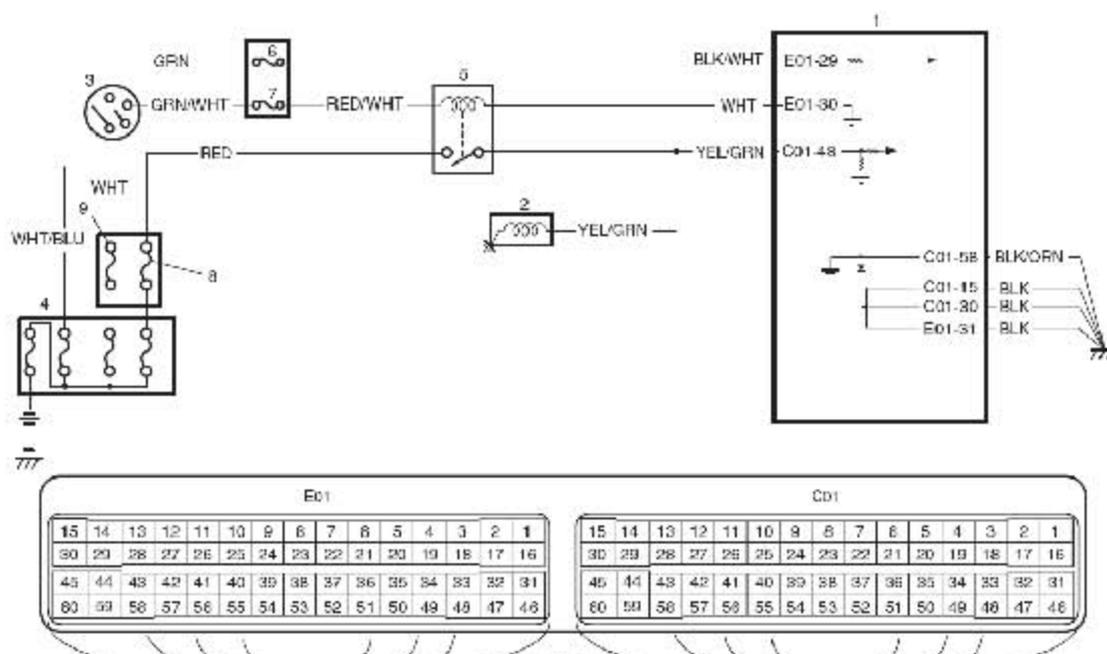


P0616: Starter Relay Circuit Low

Wiring Diagram



1. ECM	4. Main fuse box	7. "ST SIG" fuse
2. Starter motor	5. Starting motor control relay	8. "ST MOT" fuse
3. Ignition switch	6. "IG COIL" fuse	9. "IGN" fuse

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Engine starts even though vehicle is at stop and engine starter signal is low voltage. (2 driving cycle detection logic)	<ul style="list-style-type: none"> • Engine starter signal circuit • 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) Start engine.
- 4) Check DTC and pending DTC.

DTC Troubleshooting

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	<p>Signal circuit check</p> <p>1) Turn OFF ignition switch.</p> <p>2) Remove ECM from its bracket with ECM connectors connected.</p> <p>3) Measure voltage at terminal "C01-48" of ECM connector, under following condition. Voltage at terminal "C01-48" of ECM connector</p> <p>While engine cranking: 6 – 14 V</p> <p>After starting engine: 0 – 1 V</p> <p>Is each voltage within specified range?</p>	<p>Poor "C01-48" connection or intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00".</p> <p>If wire and connections are OK, substitute a known-good ECM and recheck.</p>	<p>"YEL/GRN" wire is open or high resistance circuit.</p>