

1A



## DTC P0705 (C31)

### DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
<b>P0705 (C31): GP Switch Circuit Malfunction</b> Gear position signal voltage should be higher than the specified value.	<ul style="list-style-type: none"><li>GP switch circuit open or short</li><li>GP switch malfunction</li><li>ECM malfunction</li></ul>


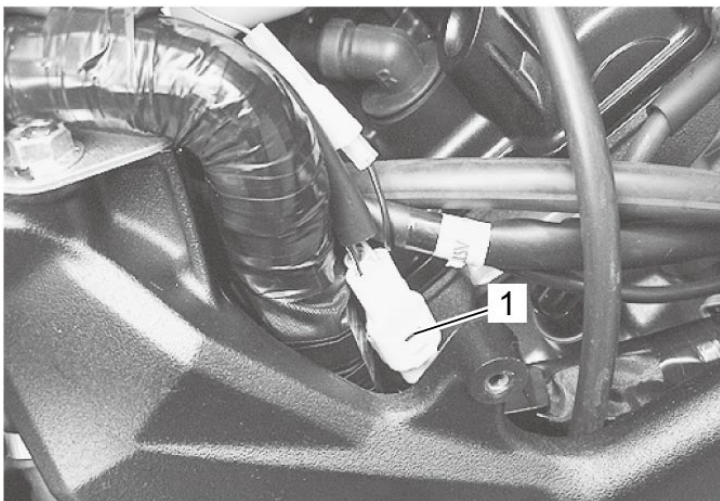

### Wiring Diagram

Refer to [FI System Wiring Diagram](#).



[A]:	To engine stop switch	2.	GP switch	4.	Ignition switch	6.	Neutral indicator light
1.	ECM	3.	Side-stand relay	5.	Side-stand switch		

### Troubleshooting

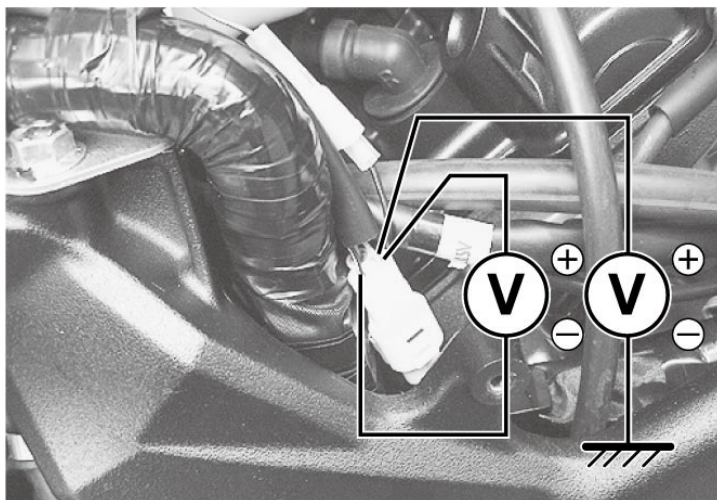
Step	Action	Yes	No
<b>1</b>	<b>GP switch input voltage check</b> 1) Turn the ignition switch OFF. 2) Lift and support the fuel tank.  3) Check the GP switch coupler (1) for loose or poor contacts. If OK, then measure the GP switch voltage.   4) Support the motorcycle with a jack. <div><b>CAUTION:</b> Make sure that the motorcycle is</div>	Go to Step 2.	Open circuit in the P or B/W wire.

**supported securely.**

**NOTICE:**

**Do not support the motorcycle with the exhaust pipes.**

- 5) Fold the side-stand to up position.
- 6) Insert the needle pointed probe to the lead wire coupler.
- 7) Turn the ignition switch ON.
- 8) Measure the voltage between the P wire and B/W wire and P wire and ground. When shifting the gearshift lever from 1st to Top.



**Is voltage 0.6 V or more?**

**2**

**GP switch signal circuit and ground circuit check**

- 1) Turn the ignition switch OFF.
- 2) Disconnect the GP switch coupler and ECM couplers.
  - GP switch:
  - ECM:
- 3) Check for proper terminal connection to the GP switch coupler and ECM couplers.
- 4) If connection are OK, check the following points:
  - Resistance
    - P wire and B/W wire: less than 1Ω








- Between each of P wire and B/W wire and ground: Infinity.



Go to Step 3.

Open or short circuit in the P wire or B/W wire.

	<ul style="list-style-type: none"><li>— Between P wire terminal and other terminal at GP switch coupler: Infinity</li></ul>  <ul style="list-style-type: none"><li>— Between B/W wire terminal and other terminal at GP switch coupler: Infinity</li></ul>  <ul style="list-style-type: none"><li>• Voltage<ul style="list-style-type: none"><li>— Turn the ignition switch ON.</li><li>— P wire and B/W wire: approx. 0 V</li></ul></li></ul>  <p><b><i>Is check result OK?</i></b></p>		
<b>3</b>	<p><b>GP switch neutral position input voltage check</b></p> <ol style="list-style-type: none"><li>1) Turn the ignition switch OFF.</li><li>2) Connect the ECM coupler. Refer to <a href="#">ECM Removal and Installation</a>.</li><li>3) Turn the ignition switch ON.</li><li>4) Measure the voltage between the BI wire and ground.</li></ol>  <p><b><i>Is voltage battery voltage?</i></b></p>	Go to Step 4.	Open or short circuit in the BI wire.
<b>4</b>	<ol style="list-style-type: none"><li>1) Check the GP switch. Refer to <a href="#">Side-stand / Ignition Interlock System Parts Inspection</a>.</li></ol> <p><b><i>Is it in good condition?</i></b></p>	Replace the ECM with a new one. 	Replace the GP switch with a new one. 