

## 4. DIAGNOSTIC TROUBLE CODE

Code	Description	Action
P1806	Defective CAN communication	<ul style="list-style-type: none"> <li>- Check communication line.</li> <li>- Replace TCCU if necessary.</li> </ul>
P1805	Defective mode switch	<ul style="list-style-type: none"> <li>- When the mode switch is defective</li> <li>- Check TCCU pin No.4 and 16.</li> <li>- Mode change                             <ul style="list-style-type: none"> <li>• 2H (Pin No. 4: Ground)</li> <li>• 4H (No contact: Open)</li> <li>• 4L (Pin No.16: Ground)</li> </ul> </li> </ul>
P1821	Open or short to ground in magnetic clutch coil circuit	<ul style="list-style-type: none"> <li>- Voltage at TCCU pin No.11: 11 ~ 15 V</li> <li>- EMC resistance: 2.5 Ω</li> <li>- Check the relevant connectors for contact.</li> <li>- Replace TCCU if necessary.</li> </ul>
P1822	Open or short to ground in hub control circuit	<ul style="list-style-type: none"> <li>- When the hub control circuit is open or short to ground over 0.2 second</li> <li>- Replace TCCU if necessary.</li> </ul>
P1841	Open to ground in shift motor circuit	<ul style="list-style-type: none"> <li>- When TCCU detects the motor failure for 1 second</li> <li>- Check the relevant harnesses for contact.</li> <li>- Replace TCCU if necessary.</li> </ul>
P1842	Short to ground in shift motor output circuit	<ul style="list-style-type: none"> <li>- When TCCU detects the motor failure for 1 second</li> <li>- Check the relevant harnesses for contact.</li> <li>- Replace TCCU if necessary.</li> </ul>
P1843	Defective position sensor in motor	<ul style="list-style-type: none"> <li>- 2H-4H: after 1.5 seconds</li> <li>- 4H-4L: after 3 seconds</li> <li>- Check the relevant harnesses for contact.</li> <li>- Replace TCCU if necessary.</li> </ul>
P1844	Stuck in 4L mode	<ul style="list-style-type: none"> <li>- When no shifting operation from 4L to 4H, even though the shift conditions are satisfied and no error.</li> <li>- Replace TCCU if necessary.</li> </ul>

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CLUTCH

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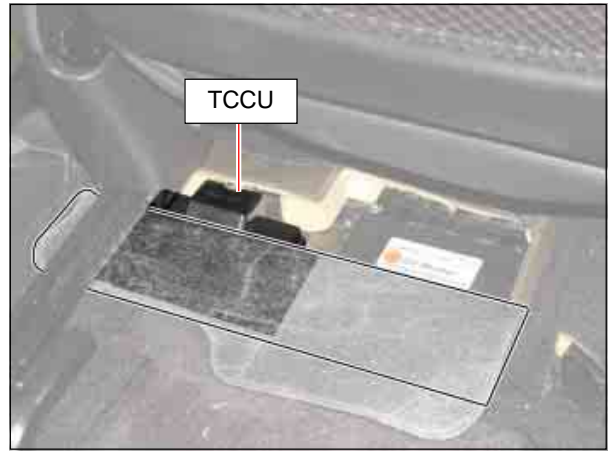
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Code	Description	Action
P1850	Defective position encoder	<ul style="list-style-type: none"> <li>- When the position encoder is defective</li> <li>- Check the relevant harnesses.</li> <li>- Check the relevant connectors for contact.</li> <li>- Check the shift motor.</li> </ul>
P1851	Short to ground for position encoder 1	<ul style="list-style-type: none"> <li>- Short to ground for position encoder 1 in shift motor</li> <li>- Check the relevant harnesses for short. <ul style="list-style-type: none"> <li>• TCCU pin No.18</li> </ul> </li> <li>- Check the relevant connectors for contact.</li> <li>- Check the shift motor.</li> </ul>
P1852	Short to ground for position encoder 2	<ul style="list-style-type: none"> <li>- Short to ground for position encoder 2 in shift motor</li> <li>- Check the relevant harnesses for short. <ul style="list-style-type: none"> <li>• TCCU pin No.5</li> </ul> </li> <li>- Check the relevant connectors for contact.</li> <li>- Check the shift motor.</li> </ul>
P1853	Short to ground for position encoder 3	<ul style="list-style-type: none"> <li>- Short to ground for position encoder 2 in shift motor</li> <li>- Check the relevant harnesses for short. <ul style="list-style-type: none"> <li>• TCCU pin No.19</li> </ul> </li> <li>- Check the relevant connectors for contact.</li> <li>- Check the shift motor.</li> </ul>
P1854	Short to ground for position encoder 4	<ul style="list-style-type: none"> <li>- Short to ground for position encoder 4 in shift motor</li> <li>- Check the relevant harnesses for short. <ul style="list-style-type: none"> <li>• TCCU pin No.17</li> </ul> </li> <li>- Check the relevant connectors for contact.</li> <li>- Check the shift motor.</li> </ul>
P1815	Abnormal CAN neutral signal	<ul style="list-style-type: none"> <li>- No neutral signal from automatic transmission over 1 second through CAN.</li> <li>- Check CAN communication line.</li> <li>- Check TCU.</li> </ul>

**Removal and Installation of TCCU**

1. Slide the drive's seat and fold up the carpet.



2. Unscrew two nuts on the TCU.

**Installation Notice**

Tightening torque	10 Nm
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3. Disconnect the TCCU connect and remove the TCCU.

**NOTICE**

- Be careful not to apply any impact to TCCU body.



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