SHIFT LOCK SYSTEM

ON-VEHICLE INSPECTION

1. CHECK SHIFT LOCK OPERATION
   (a) Shift the shift lever to the P position.
   (b) Turn the ignition switch to LOCK.
   (c) Check that the shift lever cannot be shifted to any positions other than P.
   (d) Turn the ignition switch to ON, depress the brake pedal, and check that the shift lever can be shifted to other positions.

2. CHECK SHIFT LOCK RELEASE LINK OPERATION
   (a) Using a small screwdriver, remove the shift lever cap.
   (b) When operating the shift lever with the shift lock release link pressed, check that the lever can be shifted to any positions other than P.

3. CHECK KEY INTERLOCK OPERATION
   (a) Turn the ignition switch to ON.
   (b) Depress the brake pedal and shift the shift lever to any positions other than P.
   (c) Check that the ignition key cannot be turned to LOCK.
   (d) Shift the shift lever to the P position, turn the ignition key to LOCK, and check that the ignition key can be removed.

4. INSPECT SHIFT LOCK CONTROL ECU SUB-ASSEMBLY
   (a) Using a voltmeter, measure the voltage at each terminal.
   HINT:
   Do not disconnect the shift lock control ECU connector.

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Measuring Condition</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (KLS+) - 8 (E)</td>
<td>(1) Ignition switch ACC and P position (2) Ignition switch ACC and except P position (3) Ignition switch ACC and except P position (After approx. 1 second)</td>
<td>0 7.5 to 11 6 to 9</td>
</tr>
<tr>
<td>4 (ACC) - 8 (E)</td>
<td>Ignition switch ON Ignition switch ACC Ignition switch OFF</td>
<td>10 to 14 10 to 14 0</td>
</tr>
<tr>
<td>9 (STP) - 8 (E)</td>
<td>Depress brake pedal Release brake pedal</td>
<td>10 to 14 0</td>
</tr>
<tr>
<td>5 (IG) - 8 (E)</td>
<td>Ignition switch ON Ignition switch OFF</td>
<td>10 to 14 0</td>
</tr>
</tbody>
</table>
(b) Using an ohmmeter, measure the resistance at terminal E (8) and body ground.
HINT:
Do not disconnect the shift lock control ECU connector.

5. **INSPECT KEY INTER LOCK SOLENOID**
   (a) Disconnect the solenoid connector.
   (b) Connect KLS+ (4) terminal to the battery positive (+) terminal, and KLS- (3) terminal to the battery negative (-) terminal, and apply about 12V between KLS+ and KLS- terminals.
   Check that operation noise can be heard from the solenoid.
   If the solenoid does not operate, replace the solenoid.

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Measuring Condition</th>
<th>Specified Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 (E) - Body ground</td>
<td>Always</td>
<td>Below 1 Ω</td>
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