SHIFT LOCK SYSTEM

ON-VEHICLE INSPECTION

1. CHECK SHIFT LOCK OPERATION

(a) Move the shift lever to the P position.
(b) Turn the ignition switch to the LOCK position.
(c) Check that the shift lever cannot be moved to any position other than P.
(d) Turn the ignition switch to the on position, depress the brake pedal and check that the shift lever can be moved to another position. If operation can not be done as specified, inspect the shift lock control unit.

2. CHECK SHIFT LOCK RELEASE BUTTON OPERATION

(a) Using a small screwdriver, remove the shift lock release cover.
(b) When operating the shift lever with the shift lock release button pressed, check that the lever can be moved to any position other than P.
If operation can not be done as specified, check the shift lever assembly installation condition.

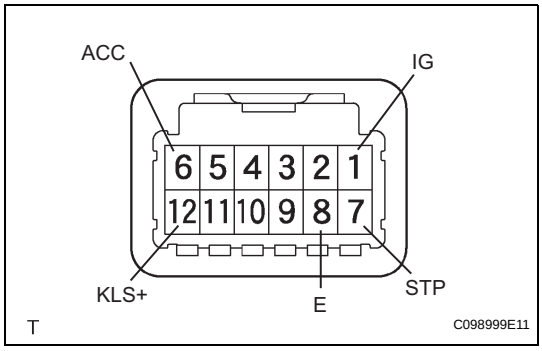
3. CHECK KEY INTERLOCK OPERATION

(a) Turn the ignition switch to the ON position.
(b) Depress the brake pedal and move the shift lever to any position other than P.
(c) Check that the ignition key cannot be turned to the LOCK position.
(d) Move the shift lever to the P position, turn the ignition key to the LOCK position and check that the ignition key can be removed.
If operation cannot be done as specified, inspect the shift lock control unit.

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4. INSPECT SHIFT LOCK CONTROL UNIT ASSEMBLY

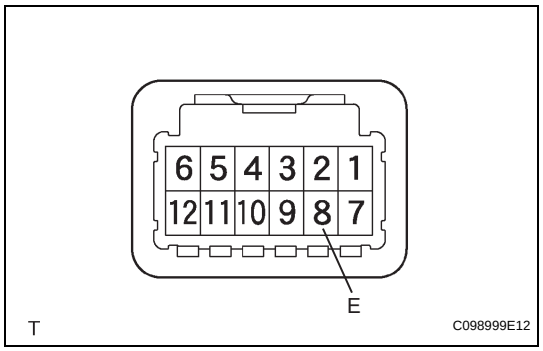
(a) Measure the voltage according to the value(s) in the table below.
HINT:
Do not disconnect the shift lock control unit assembly connector.



Voltage

Terminal	Measuring Condition	Voltage (V)
6 (ACC) - 8 (E)	Ignition switch ACC	10 to 14
6 (ACC) - 8 (E)	Ignition switch OFF	Below 1
7 (STP) - 8 (E)	Depress brake pedal	10 to 14
7 (STP) - 8 (E)	Release brake pedal	Below 1
12 (KLS+) - 8 (E)	1. Ignition switch ACC and shift lever P position 2. Ignition switch ACC and shift lever except P position 3. Ignition switch ACC and shift lever except P position (After approx. 1 second)	Below 1 7.5 to 11 6 to 9

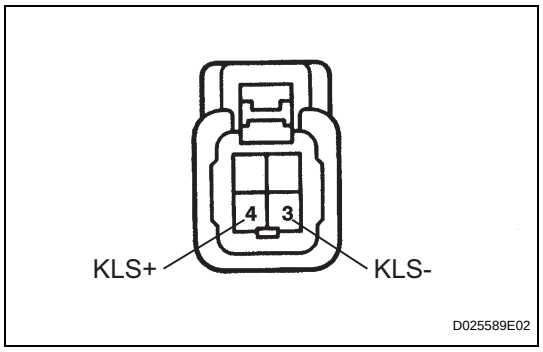
Terminal	Measuring Condition	Voltage (V)
1 (IG) - 8 (E)	Ignition switch ON	10 to 14
1 (IG) - 8 (E)	Ignition switch OFF	Below 1



(b) Measure the resistance according to the value(s) in the table below.
HINT:
Do not disconnect the shift lock control unit assembly connector.
If operation cannot be done as specified, replace the shift lever assembly.

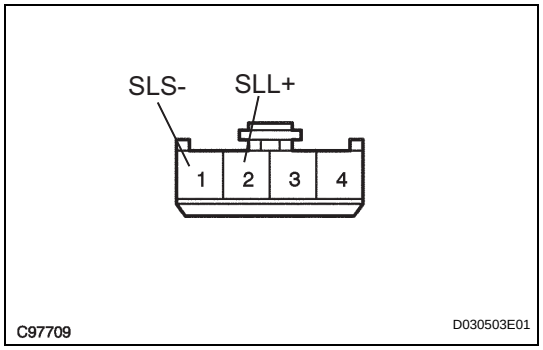
Resistance

Terminal	Measuring Condition	Specified Value
8 (E) - Body ground	Always	Below 1 Ω



5. INSPECT KEY INTER LOCK SOLENOID

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



6. INSPECT SHIFT LOCK SOLENOID

(a) Disconnect the solenoid connector.
(b) Connect SSL+ (2) terminal to the batteries' positive (+) terminal, and SLS- (1) terminal to the battery negative (-) terminal, and apply about 12 V between SLL+-SLS- terminals.
(c) Check that operation noise can be heard from the solenoid.
If the solenoid does not operate, replace the solenoid.

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