

ON-VEHICLE INSPECTION

1. INSPECT TOWING CONVERTER RELAY

- (a) Measure the voltage and check the result in accordance with the value(s) in the table below.

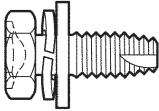
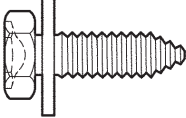
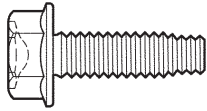
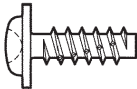
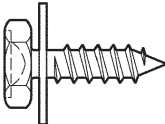
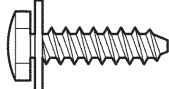
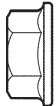
Standard

Tester Connection	Condition	Specified Condition
1 - Body ground	Constant	Battery positive voltage
2 - Body ground	Turn signal switch (right turn) OFF → ON	0 V → 10 to 14 V (60 to 120 times per minute)
2 - Body ground	Depress brake pedal	Battery positive voltage
3 - Body ground	Turn signal switch (right turn) OFF → ON	0 V → 10 to 14 V (60 to 120 times per minute)
4 - Body ground	Turn signal switch (left turn) OFF → ON	0 V → 10 to 14 V (60 to 120 times per minute)
4 - Body ground	Depress brake pedal	Battery positive voltage
6 - Body ground	Constant	Below 1 Ω
8 - Body ground	Depress brake pedal	Battery positive voltage
9 - Body ground	Turn signal switch (left turn) OFF → ON	0 V → 10 to 14 V (60 to 120 times per minute)

REMOVAL

1. BOLT, SCREW AND NUT TABLE

mm (in.) (L = Length)

Code	Shape	Code	Shape	Code	Shape
<A>	 <p>$\varphi = 6$ (0.24) L = 16 (0.63)</p> <p>90080-11157</p>		 <p>$\varphi = 6$ (0.24) L = 20 (0.79)</p> <p>90080-11353</p>	<C>	 <p>$\varphi = 6$ (0.24) L = 16 (0.63)</p> <p>90105-A0007</p>
<D>	 <p>$\varphi = 5$ (0.20) L = 14 (0.55)</p> <p>90080-16100</p>	<E>	 <p>$\varphi = 5$ (0.20) L = 18 (0.71)</p> <p>90159-A0034</p>	<F>	 <p>$\varphi = 5$ (0.20) L = 20 (0.79)</p> <p>90159-50192</p>
<G>	 <p>$\varphi = 6$ (0.24)</p> <p>90178-A0023</p>				

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HINT:

All bolts, screws and nuts relevant to installing and removing the instrument panel are shown along with their alphabetic codes in the table below.

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

3. REMOVE FRONT FLOOR FOOTREST (See page [IR-1](#))

4. REMOVE FRONT DOOR SCUFF PLATE LH (for Regular Cab) (See page [IR-40](#))

5. REMOVE FRONT DOOR SCUFF PLATE LH (for Access Cab) (See page [IR-61](#))

6. REMOVE FRONT DOOR SCUFF PLATE LH (for Double Cab)

7. REMOVE FRONT DOOR SCUFF PLATE RH (for Regular Cab) (See page [IR-40](#))

8. REMOVE FRONT DOOR SCUFF PLATE RH (for Access Cab) (See page [IR-61](#))

9. REMOVE FRONT DOOR SCUFF PLATE RH (for Double Cab)

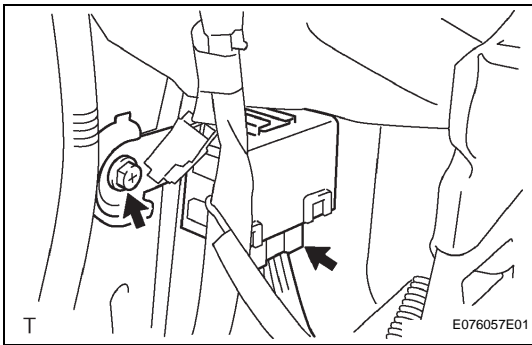


10. REMOVE COWL SIDE TRIM BOARD LH (for Regular Cab) (See page [IR-40](#))
11. REMOVE COWL SIDE TRIM BOARD LH (for Access Cab) (See page [IR-61](#))
12. REMOVE COWL SIDE TRIM BOARD LH (for Double Cab) (See page [IR-12](#))
13. REMOVE COWL SIDE TRIM BOARD RH (for Regular Cab) (See page [IR-40](#))
14. REMOVE COWL SIDE TRIM BOARD RH (for Access Cab) (See page [IR-61](#))
15. REMOVE COWL SIDE TRIM BOARD RH (for Double Cab) (See page [IR-12](#))
16. SEPARATE FRONT DOOR OPENING TRIM WEATHERSTRIP LH (See page [IP-8](#))
17. SEPARATE FRONT DOOR OPENING TRIM WEATHERSTRIP RH (See page [IP-8](#))
18. REMOVE FRONT PILLAR GARNISH LH (for Regular Cab) (See page [IR-41](#))
19. REMOVE FRONT PILLAR GARNISH LH (for Access Cab) (See page [IR-62](#))
20. REMOVE FRONT PILLAR GARNISH LH (for Double Cab) (See page [IR-13](#))
21. REMOVE FRONT PILLAR GARNISH RH (for Regular Cab) (See page [IR-41](#))
22. REMOVE FRONT PILLAR GARNISH RH (for Access Cab) (See page [IR-63](#))
23. REMOVE FRONT PILLAR GARNISH RH (for Double Cab) (See page [IR-14](#))
24. REMOVE INSTRUMENT PANEL UNDER TRAY (for Pedal Type Parking Brake) (See page [IP-9](#))
25. REMOVE INSTRUMENT PANEL HOLE COVER (for Lever Type Parking Brake) (See page [IP-9](#))
26. REMOVE CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (for Automatic Transmission on Separate Seat Type) (See page [IP-9](#))
27. REMOVE CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (for Manual Transmission on Separate Seat Type) (See page [IP-9](#))
28. REMOVE REAR CONSOLE BOX ASSEMBLY (for Separate Seat Type) (See page [IP-10](#))
29. REMOVE INSTRUMENT PANEL CUP HOLDER TRAY (for Automatic Transmission on Separate Seat Type) (See page [IP-10](#))

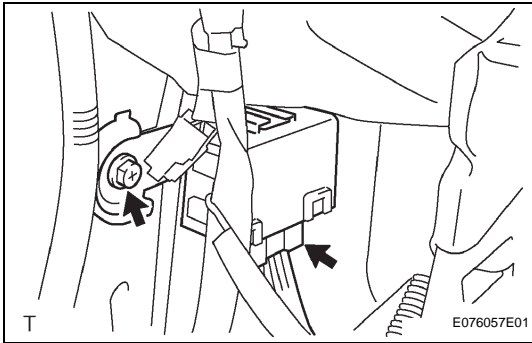


30. REMOVE FRONT CONSOLE BOX (for Automatic Transmission on Separate Seat Type) (See page [IP-10](#))
31. REMOVE FRONT CONSOLE BOX (for Manual Transmission on Separate Seat Type) (See page [IP-11](#))
32. REMOVE FRONT CONSOLE BOX (for Automatic Transmission on Bench Seat Type) (See page [IP-11](#))
33. REMOVE FRONT CONSOLE BOX (for Manual Transmission on Bench Seat Type) (See page [IP-11](#))
34. REMOVE AIR CONDITIONING CONTROL ASSEMBLY (See page [IP-12](#))
35. REMOVE RADIO RECEIVER ASSEMBLY (See page [AV-69](#))
36. SEPARATE HOOD LOCK CONTROL LEVER SUB-ASSEMBLY (See page [ED-3](#))
37. REMOVE LOWER NO. 1 INSTRUMENT PANEL FINISH PANEL (See page [IP-12](#))
38. REMOVE INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY (See page [IP-12](#))
39. REMOVE COMBINATION METER ASSEMBLY (See page [IP-13](#))
40. REMOVE INSTRUMENT CLUSTER CENTER FINISH PANEL SUB-ASSEMBLY (See page [IP-13](#))
41. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY (See page [IP-13](#))
42. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY RH (See page [IP-14](#))
43. REMOVE LOWER INSTRUMENT PANEL LH (See page [IP-14](#))
44. REMOVE LOWER INSTRUMENT COVER SUB-ASSEMBLY (See page [IP-14](#))
45. REMOVE INSTRUMENT SIDE PANEL RH (See page [IP-14](#))
46. DISCONNECT PASSENGER AIRBAG CONNECTOR (See page [RS-576](#))
47. REMOVE INSTRUMENT PANEL SUB-ASSEMBLY W/ PASSENGER AIRBAG ASSEMBLY (See page [IP-14](#))



**48. REMOVE TOWING CONVERTER RELAY**

- (a) Disconnect the connector.
- (b) Remove the bolt and towing converter relay.

**INSTALLATION****1. INSTALL TOWING CONVERTER RELAY**

- (a) Install the towing converter relay with the bolt.
Torque: 7.0 N*m (71 kgf*cm, 62 in.*lbf)
- (b) Connect the connector.

**2. INSTALL INSTRUMENT PANEL SUB-ASSEMBLY W/
PASSENGER AIRBAG ASSEMBLY (See page [IP-18](#))****3. CONNECT PASSENGER AIRBAG CONNECTOR****4. INSTALL INSTRUMENT SIDE PANEL RH (See page [IP-20](#))****5. INSTALL INSTRUMENT LOWER COVER SUB-
ASSEMBLY (See page [IP-20](#))****6. INSTALL LOWER INSTRUMENT PANEL LH (See page [IP-20](#))****7. INSTALL INSTRUMENT PANEL LOWER FINISH
PANEL SUB-ASSEMBLY RH (See page [IP-20](#))****8. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY
(See page [IP-20](#))****9. INSTALL INSTRUMENT CLUSTER CENTER FINISH
PANEL SUB-ASSEMBLY (See page [IP-21](#))****10. INSTALL COMBINATION METER ASSEMBLY (See
page [IP-21](#))****11. INSTALL INSTRUMENT CLUSTER FINISH PANEL
SUB-ASSEMBLY (See page [IP-21](#))****12. INSTALL LOWER NO.1 INSTRUMENT PANEL FINISH
PANEL (See page [IP-22](#))****13. CONNECT HOOD LOCK CONTROL LEVER SUB-
ASSEMBLY (See page [ED-8](#))****14. INSTALL RADIO RECEIVER ASSEMBLY (See page [AV-70](#))****15. INSTALL AIR CONDITIONING CONTROL ASSEMBLY
(See page [IP-22](#))****16. INSTALL FRONT CONSOLE BOX (for Manual
Transmission on Bench Seat Type) (See page [IP-22](#))****17. INSTALL FRONT CONSOLE BOX (for Automatic
Transmission on Bench Seat Type) (See page [IP-23](#))**

18. **INSTALL FRONT CONSOLE BOX (for Manual Transmission on Separate Seat Type) (See page [IP-23](#))**
19. **INSTALL FRONT CONSOLE BOX (for Automatic Transmission on Separate Seat Type) (See page [IP-24](#))**
20. **INSTALL INSTRUMENT PANEL CUP HOLDER TRAY (for Automatic Transmission on Separate Seat Type) (See page [IP-24](#))**
21. **INSTALL REAR CONSOLE BOX ASSEMBLY (for Separate Seat Type) (See page [IP-24](#))**
22. **INSTALL CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (for Manual Transmission on Separate Seat Type) (See page [IP-25](#))**
23. **INSTALL CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (for Automatic Transmission on Separate Seat Type) (See page [IP-25](#))**
24. **INSTALL INSTRUMENT PANEL HOLE COVER (for Lever Type Parking Brake) (See page [IP-25](#))**
25. **INSTALL INSTRUMENT PANEL UNDER TRAY (for Pedal Type Parking Brake) (See page [IP-25](#))**
26. **INSTALL FRONT PILLAR GARNISH LH (for Regular Cab) (See page [IR-51](#))**
27. **INSTALL FRONT PILLAR GARNISH LH (for Access Cab) (See page [IR-74](#))**
28. **INSTALL FRONT PILLAR GARNISH LH (for Double Cab) (See page [IR-28](#))**
29. **INSTALL FRONT PILLAR GARNISH RH (for Regular Cab) (See page [IR-52](#))**
30. **INSTALL FRONT PILLAR GARNISH RH (for Access Cab) (See page [IR-74](#))**
31. **INSTALL FRONT PILLAR GARNISH RH (for Double Cab) (See page [IR-28](#))**
32. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH**
33. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH**
34. **INSTALL COWL SIDE TRIM BOARD LH (for Regular Cab) (See page [IR-52](#))**
35. **INSTALL COWL SIDE TRIM BOARD LH (for Access Cab) (See page [IR-75](#))**
36. **INSTALL COWL SIDE TRIM BOARD LH (for Double Cab) (See page [IR-29](#))**
37. **INSTALL COWL SIDE TRIM BOARD RH (for Regular Cab) (See page [IR-52](#))**



38. **INSTALL COWL SIDE TRIM BOARD RH (for Access Cab) (See page [IR-75](#))**
39. **INSTALL COWL SIDE TRIM BOARD RH (for Double Cab) (See page [IR-29](#))**
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43. **INSTALL FRONT DOOR SCUFF PLATE RH (for Regular Cab) (See page [IR-52](#))**
44. **INSTALL FRONT DOOR SCUFF PLATE RH (for Access Cab) (See page [IR-75](#))**
45. **INSTALL FRONT DOOR SCUFF PLATE RH (for Double Cab) (See page [IR-29](#))**
46. **INSTALL FRONT FLOOR FOOTREST (See page [IR-1](#))**
47. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)
48. **INSPECT SRS WARNING LIGHT**
(See page [RS-28](#))