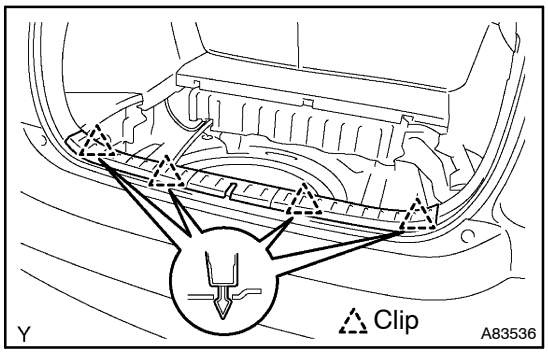
2102S–01

Removal & Installation and Disassembly & Reassembly

NOTICE:

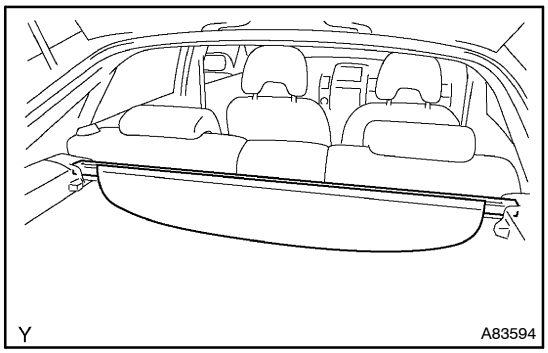
- **When working on the high voltage systems, always wear insulating gloves.**
- **After removing the service plug grip, do not operate the power switch as it may damage the hybrid vehicle control ECU.**
- **Keep the removed service plug in your pocket to prevent other technicians from reconnecting it while you are servicing the vehicle.**
- **After removing the service plug grip, do not touch the high voltage connectors and terminals for 5 minutes.**

1. **PRECAUTION (See page 21–8)**
2. **REMOVE REAR FLOOR BOARD NO.2 (See page 21–120)**
3. **REMOVE DECK FLOOR BOX REAR (See page 21–120)**
4. **REMOVE REAR FLOOR BOARD NO.3 (See page 21–120)**
5. **DISCONNECT BATTERY NEGATIVE TERMINAL (See page 21–120)**
6. **REMOVE SERVICE PLUG GRIP (See page 21–120)**

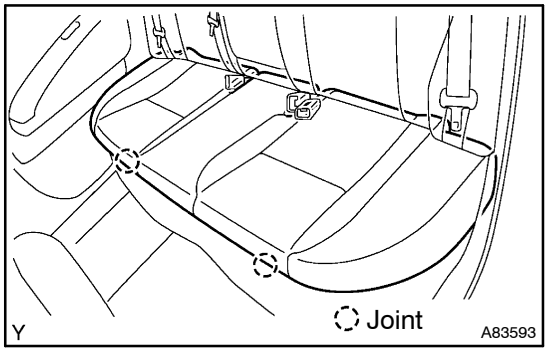


7. REMOVE DECK TRIM COVER REAR

(a) Disconnect the 4 clips shown in the illustration, then remove the deck trim cover rear.

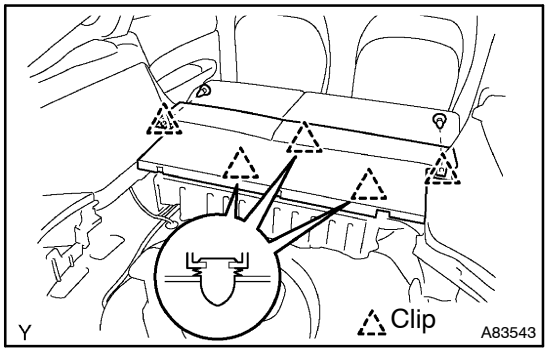


8. REMOVE TONNEAU COVER ASSY



9. REMOVE REAR SEAT CUSHION ASSY

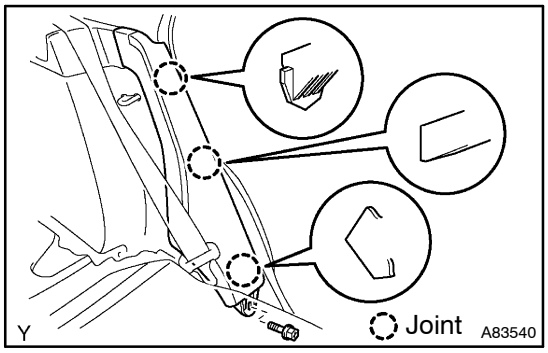
(a) Undo the 2 joints shown in the illustration, then remove the rear seat cushion.



10. REMOVE REAR FLOOR BOARD NO.1

(a) Remove the 2 bolts and luggage hold belt strikers.

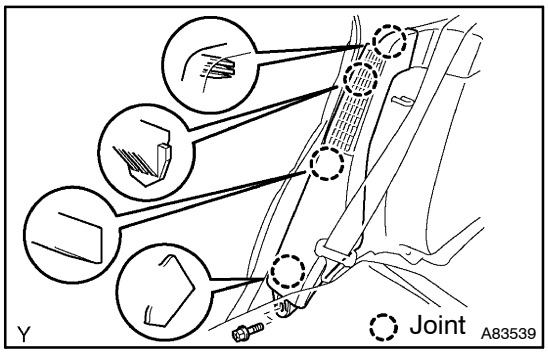
(b) Remove the 5 clips shown in the illustration and the rear floor board No. 1.



11. REMOVE REAR SIDE SEAT BACK FRAME LH

(a) Remove the bolt from the rear side seat back frame LH.

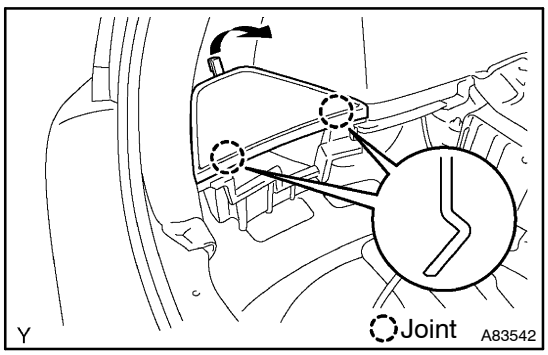
(b) Undo the 3 joints, then remove the rear side seat back frame LH.



12. REMOVE REAR SIDE SEAT BACK FRAME RH

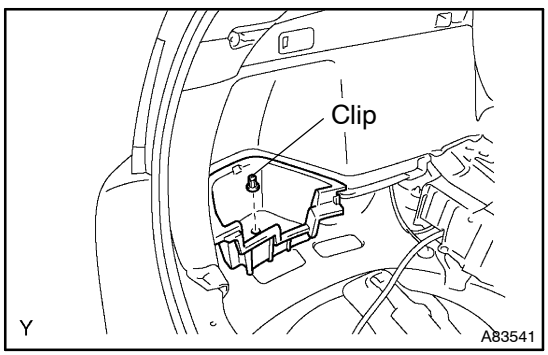
(a) Remove the bolt from the rear side seat back frame RH.

(b) Undo the 4 joints, then remove the rear side seat back frame RH.



13. REMOVE REAR FLOOR BOARD NO.4

(a) As shown in the illustration, while lifting up the rear floor board No. 4, undo the 2 joints and remove the rear floor board No. 4.

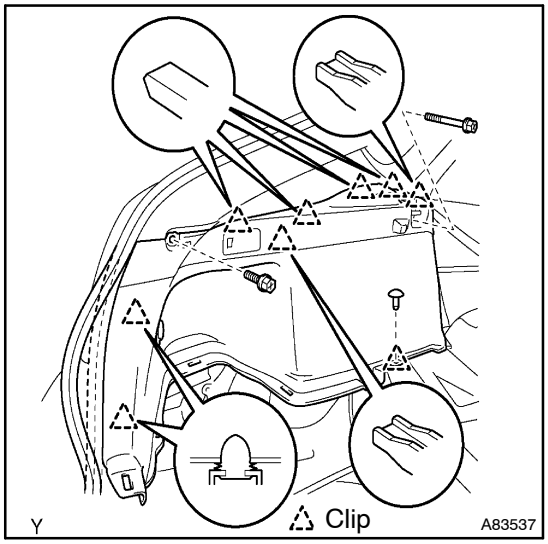


14. REMOVE DECK FLOOR BOX LH

(a) Remove the clip and deck floor box LH.

15. REMOVE DECK TRIM SIDE PANEL ASSY LH

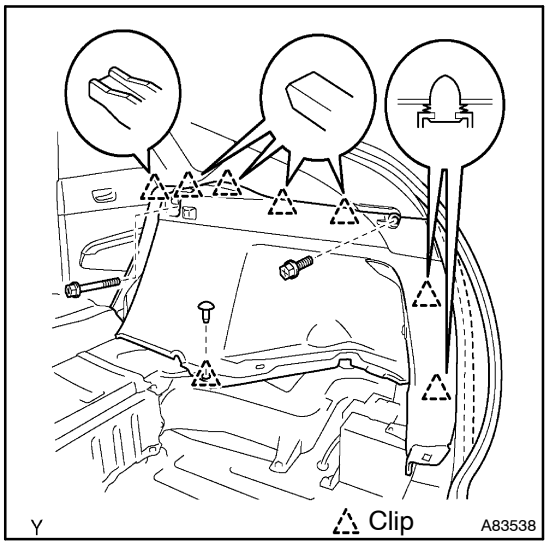
(a) Remove the bolt and luggage hold belt striker assembly.



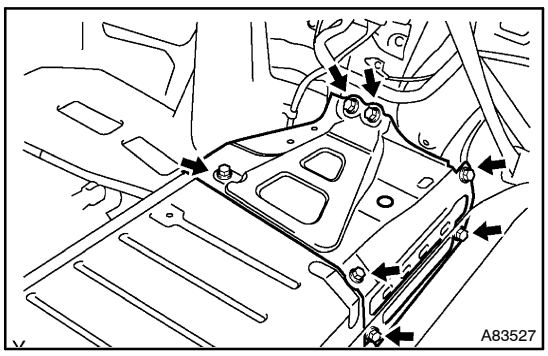
(b) Remove the 2 bolts from the deck trim side panel assembly LH.
(c) Remove the clip from the deck trim side panel assembly LH.
(d) Undo the 8 clips, then pull out a part of the weather strip and remove the deck trim side panel assembly LH.
(e) Disconnect the lighting connector.

16. REMOVE DECK TRIM SIDE PANEL ASSY RH

(a) Remove the bolt and luggage hold belt striker assembly.

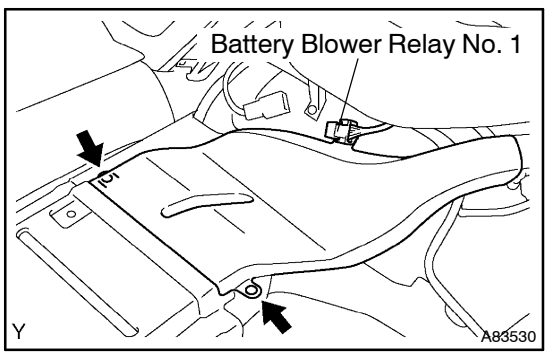


(b) Remove the 2 bolts from the deck trim side panel assembly RH.
(c) Remove the clip from the deck trim side panel assembly RH.
(d) Undo the 7 clips, then pull out a part of the weather strip and remove the deck trim side panel assembly RH.



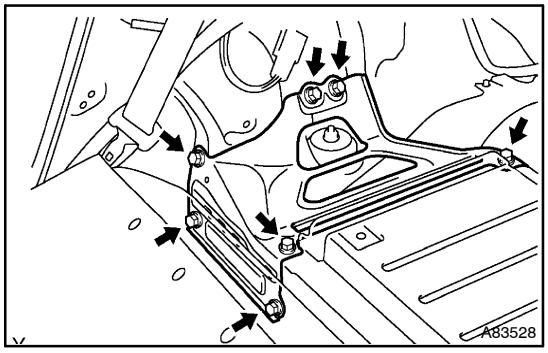
17. REMOVE BATTERY CARRIER BRACKET

(a) Remove the 7 bolts and battery carrier bracket.



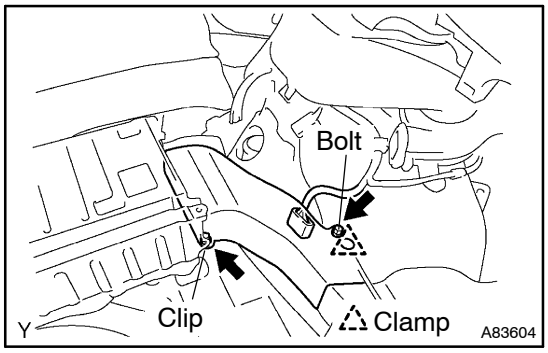
18. REMOVE QUARTER VENT DUCT INNER NO.2

(a) Disconnect the clamp and battery blower relay No. 1.
(b) Remove the 2 clips.
(c) Slide the ventilation inner duct No. 2 to the battery side, then remove it.



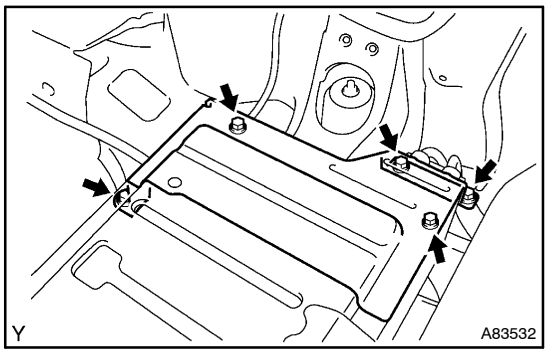
19. REMOVE BATTERY BRACKET REINFORCEMENT

(a) Remove the 7 bolts and battery bracket reinforcement.



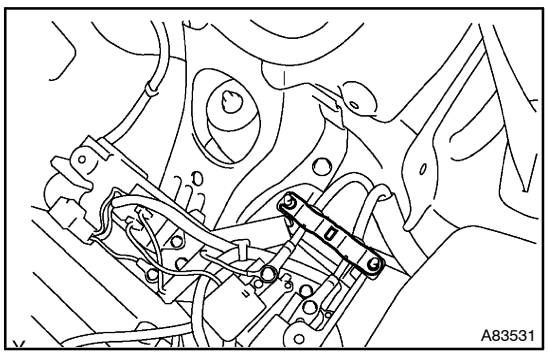
20. REMOVE QUARTER VENT DUCT

(a) Disconnect the connector.
(b) Remove the clamp, then disconnect the wire harness.
(c) Remove the bolt, clip and quarter ventilator duct.



21. REMOVE BATTERY CARRIER PANEL NO.6

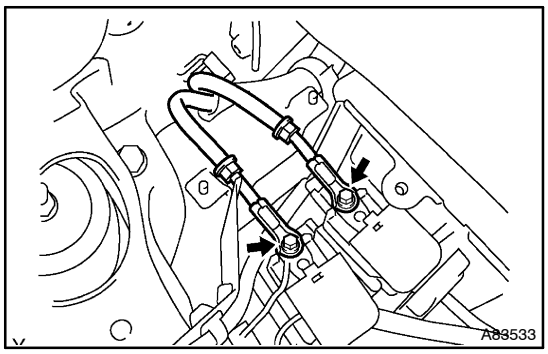
(a) Remove the 3 bolts, 2 nuts and battery carrier panel No. 6.



22. REMOVE JUNCTION TERMINAL

NOTICE:

Wear insulating gloves.

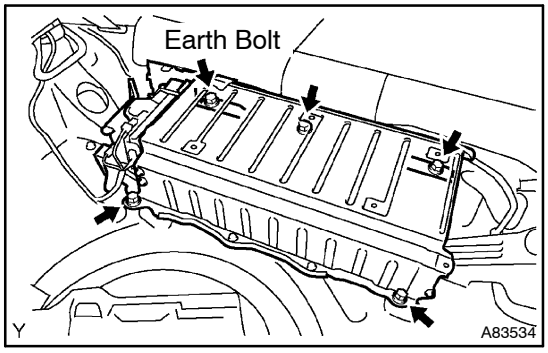


23. REMOVE FRAME WIRE

NOTICE:

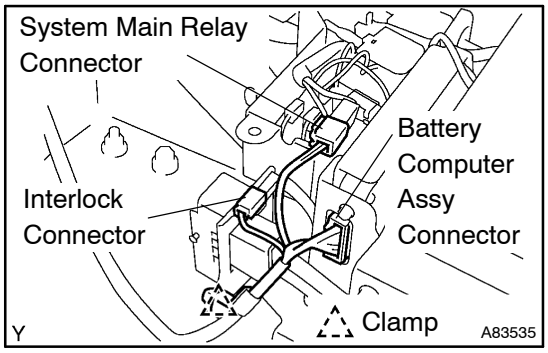
- **Wear insulating gloves.**
- **Insulate the removed terminals with insulating tape.**

(a) Remove the 2 nuts, then disconnect the frame wire from the system main relay No. 2 and No. 3.



24. REMOVE HV BATTERY ASSY

(a) Remove the earth bolt and 4 bolts shown in the illustration.



(b) Disconnect the system main relay connector.

NOTICE:

Wear insulating gloves.

(c) Disconnect the interlock connector.

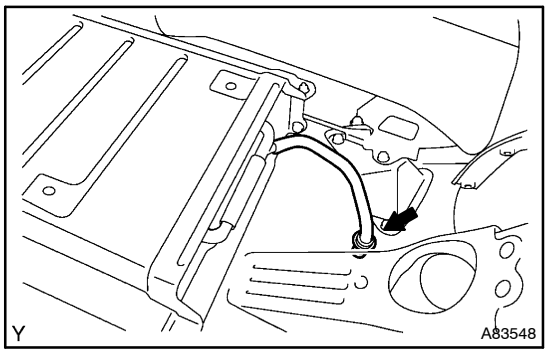
NOTICE:

Wear insulating gloves.

(d) Remove the clamp, then disconnect the battery ECU connector.

NOTICE:

Wear insulating gloves.



(e) Disconnect the battery room ventilation hose from the floor panel.

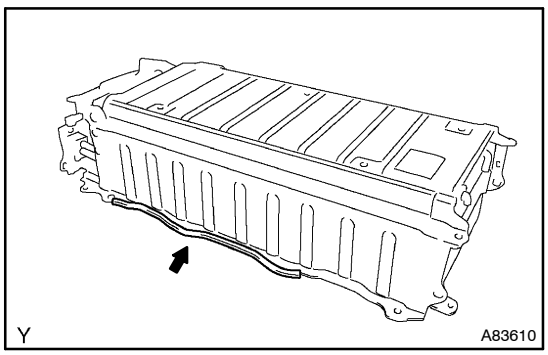
NOTICE:

Wear protective glasses.

(f) Remove the HV battery.

NOTICE:

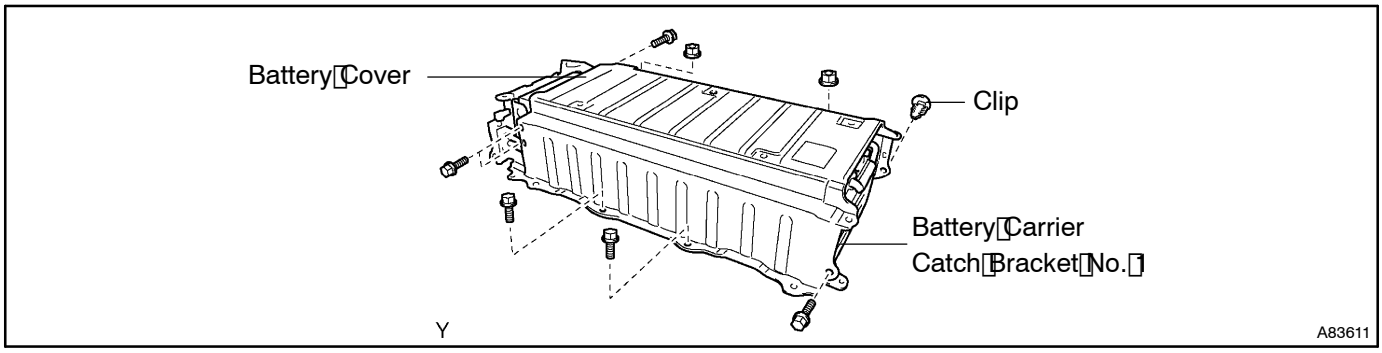
Wear insulating gloves.



25. REMOVE BATTERY COVER SUB–ASSY

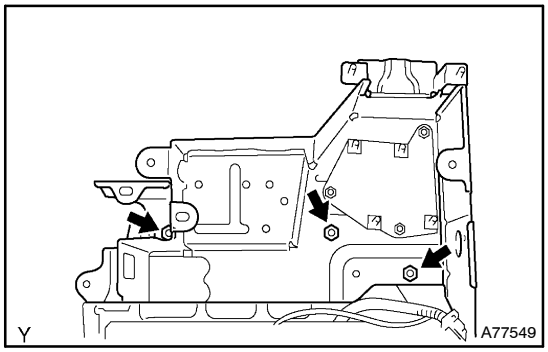
(a) Remove the protector shown in the illustration.

(b) Remove the 6 bolts, 2 nuts, clip, battery cover and battery carrier catch bracket No. 1.



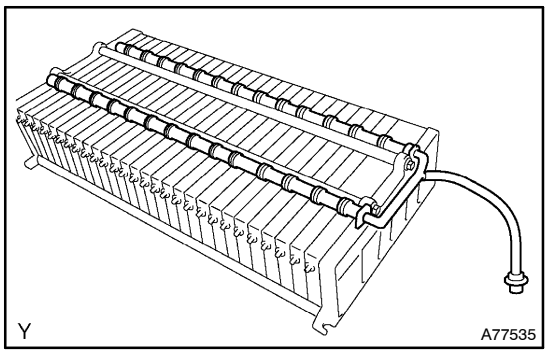
26. REMOVE WIRING HARNESS PROTECTOR COVER NO.1 (See page 21–68)
NOTICE:
Wear insulating gloves.
27. REMOVE WIRING HARNESS PROTECTOR COVER NO.3 (See page 21–68)
NOTICE:
Wear insulating gloves.
28. REMOVE BATTERY CARRIER CUSHION NO.3 (See page 21–68)
NOTICE:
Wear insulating gloves.
29. REMOVE MAIN BATTERY CABLE (See page 21–68)
NOTICE:
Wear insulating gloves.
30. REMOVE MAIN BATTERY CABLE NO.2 (See page 21–68)
NOTICE:
Wear insulating gloves.
31. REMOVE BATTERY CURRENT SENSOR (See page 21–97)
NOTICE:
Wear insulating gloves.
32. REMOVE WIRING HARNESS PROTECTOR COVER NO.2 (See page 21–82)
NOTICE:
Wear insulating gloves.
33. REMOVE WIRING HARNESS PROTECTOR COVER NO.4 (See page 21–82)
NOTICE:
Wear insulating gloves.
34. REMOVE BATTERY CLAMP PAD (See page 21–79)
NOTICE:
Wear insulating gloves.
35. REMOVE WIRING HARNESS PROTECTOR COVER NO.1 (See page 21–79)
NOTICE:
Wear insulating gloves.
36. REMOVE BATTERY PLUG (See page 21–79)
NOTICE:
Wear insulating gloves.

37. REMOVE JUNCTION BLOCK ASSY (See page 21–82)
NOTICE:
Wear insulating gloves.
38. REMOVE SYSTEM MAIN RELAY NO.2 (See page 21–89)
NOTICE:
Wear insulating gloves.
39. REMOVE SYSTEM MAIN RELAY NO.3 (See page 21–92)
NOTICE:
Wear insulating gloves.
40. REMOVE SYSTEM MAIN RESISTOR (See page 21–94)
NOTICE:
Wear insulating gloves.
41. REMOVE SYSTEM MAIN RELAY NO.1 (See page 21–85)
NOTICE:
Wear insulating gloves.
42. REMOVE BATTERY ECU ASSY (See page 21–100)



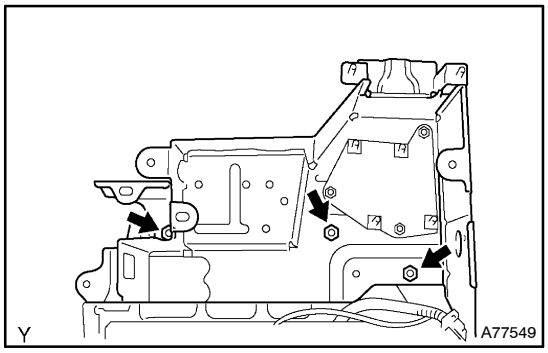
43. REMOVE BATTERY CARRIER SUB–ASSY UPR
NOTICE:
Wear insulating gloves.
(a) Remove the 3 nuts and upper battery carrier.

44. REMOVE BATTERY SPACER NO.1
NOTICE:
Wear insulating gloves.
45. REMOVE FRAME WIRE NO.2 (See page 21–76)
NOTICE:
Wear insulating gloves.



46. REMOVE BATTERY ROOM VENTILATION HOSE
NOTICE:
Wear insulating gloves and protective glasses.

47. INSTALL BATTERY ROOM VENTILATION HOSE
NOTICE:
Wear insulating gloves and protective glasses.
48. INSTALL FRAME WIRE NO.2 (See page 21–76)
NOTICE:
Wear insulating gloves.
49. INSTALL BATTERY SPACER NO.1
NOTICE:
Wear insulating gloves.

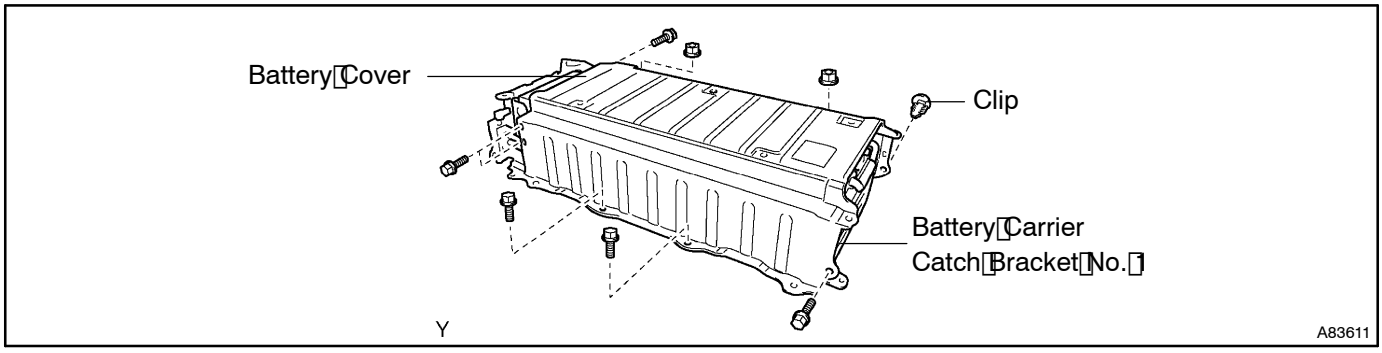


50. INSTALL BATTERY CARRIER SUB–ASSY UPR
NOTICE:
Wear insulating gloves.
(a) Install the upper battery carrier with the 3 nuts.
Torque: 5.5 N·m (56 kgf·cm, 49 in.·lbf)

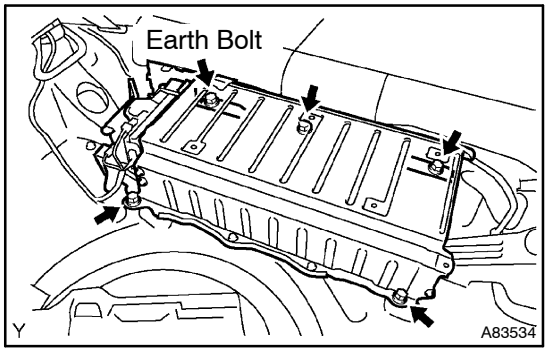
51. INSTALL BATTERY ECU ASSY (See page 21–100)
52. INSTALL SYSTEM MAIN RELAY NO.1 (See page 21–85)
NOTICE:
Wear insulating gloves.
53. INSTALL SYSTEM MAIN RESISTOR (See page 21–94)
NOTICE:
Wear insulating gloves.
54. INSTALL SYSTEM MAIN RELAY NO.3 (See page 21–92)
NOTICE:
Wear insulating gloves.
55. INSTALL SYSTEM MAIN RELAY NO.2 (See page 21–89)
NOTICE:
Wear insulating gloves.
56. INSPECT CONTACT CONDITION (See page 21–85)
NOTICE:
Wear insulating gloves.
57. INSTALL JUNCTION BLOCK ASSY (See page 21–82)
NOTICE:
Wear insulating gloves.
58. INSTALL BATTERY PLUG (See page 21–79)
NOTICE:
Wear insulating gloves.
59. INSTALL WIRING HARNESS PROTECTOR COVER NO.1 (See page 21–79)
NOTICE:
Wear insulating gloves.
60. INSTALL BATTERY CLAMP PAD (See page 21–79)
NOTICE:
Wear insulating gloves.

61. INSTALL WIRING HARNESS PROTECTOR COVER NO.4
NOTICE:
Wear insulating gloves.
62. INSTALL WIRING HARNESS PROTECTOR COVER NO.2
NOTICE:
Wear insulating gloves.
63. INSTALL BATTERY CURRENT SENSOR (See page 21–97)
NOTICE:
Wear insulating gloves.
64. INSTALL MAIN BATTERY CABLE NO.2 (See page 21–72)
NOTICE:
Wear insulating gloves.
65. INSTALL MAIN BATTERY CABLE (See page 21–68)
NOTICE:
Wear insulating gloves.
66. INSTALL BATTERY CARRIER CUSHION NO.3 (See page 21–68)
NOTICE:
Wear insulating gloves.
67. INSTALL WIRING HARNESS PROTECTOR COVER NO.3
NOTICE:
Wear insulating gloves.
68. INSTALL WIRING HARNESS PROTECTOR COVER NO.1
NOTICE:
Wear insulating gloves.

69. INSTALL BATTERY COVER SUB–ASSY
NOTICE:
Wear insulating gloves.

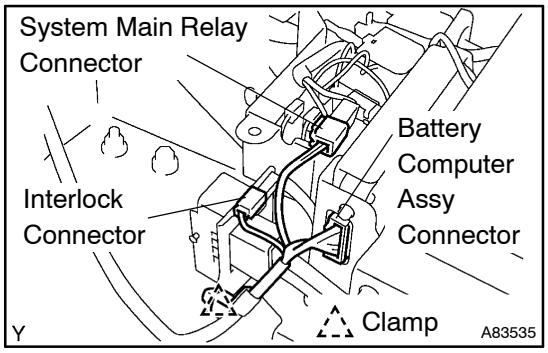


(a) Temporarily fasten the battery carrier catch bracket No. 1 to the battery room ventilation hose.
(b) Install the battery cover with the 6 bolts, 2 nuts and clip.
Torque: 8.0 N·m (82 kgf·cm, 71 in.·lbf)
(c) Install the protector on the battery cover.



70. INSTALL HV BATTERY ASSY

(a) Install the HV battery with the earth bolt and 4 bolts.
Torque: 19 N·m (194 kgf·cm, 14 ft·lbf)



(b) Connect the system main relay connector.

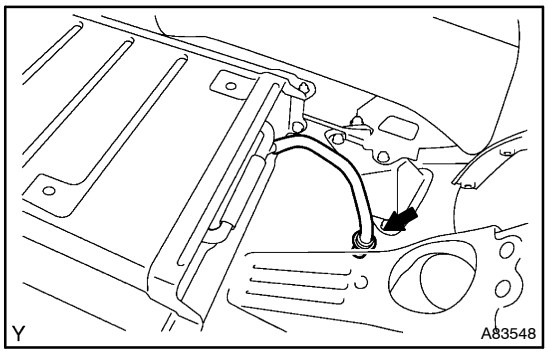
NOTICE:
Wear insulating gloves.

(c) Connect the interlock connector.

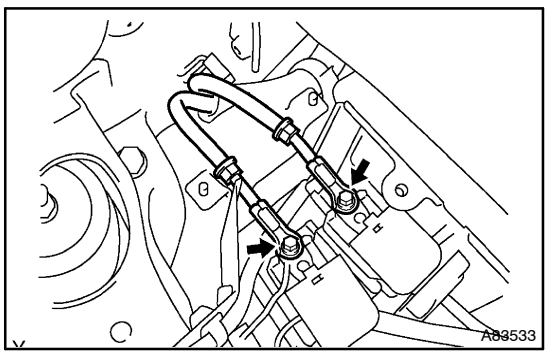
NOTICE:
Wear insulating gloves.

(d) Connect the battery ECU connector.

NOTICE:
Wear insulating gloves.



(e) Connect the battery room ventilation hose to the floor panel.

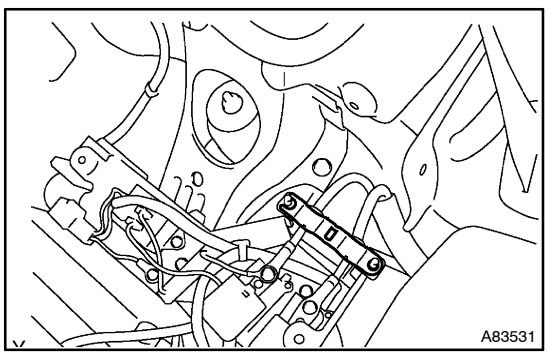


71. INSTALL FRAME WIRE

NOTICE:
Wear insulating gloves.

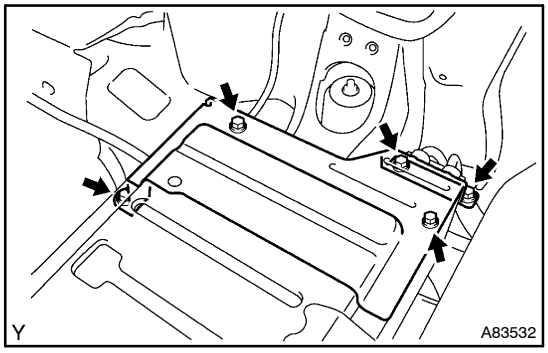
(a) Install the frame wire on the system main relay No. 2 and No. 3 with 2 new nuts.
Torque: 5.6 N·m (57 kgf·cm, 50 in.·lbf)

(b) Connect the 2 clamps, then install the frame wire to the upper battery carrier.



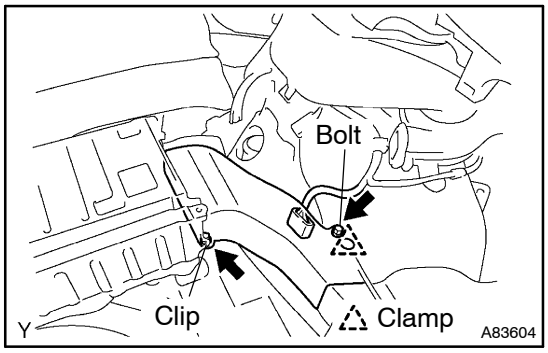
72. INSTALL JUNCTION TERMINAL

NOTICE:
Wear insulating gloves.



73. INSTALL BATTERY CARRIER PANEL NO.6

(a) Install the battery carrier panel No. 6 with the bolt and 2 nuts.
Torque: 7.5 N·m (76 kgf·cm, 66 in.·lbf)



74. INSTALL QUARTER VENT DUCT

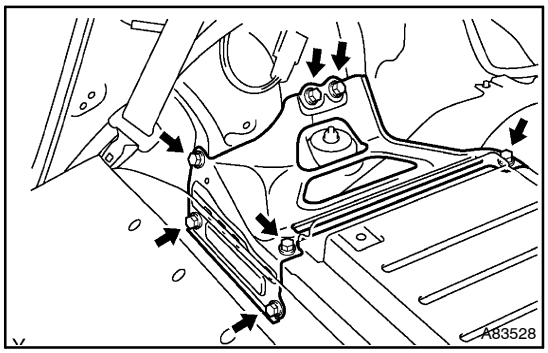
NOTICE:

The duct should not be half fit. Ensure that it is installed securely.

(a) Install the quarter ventilator duct with the bolt and clip.
Torque: 4.0 N·m (41 kgf·cm, 35 in.·lbf)

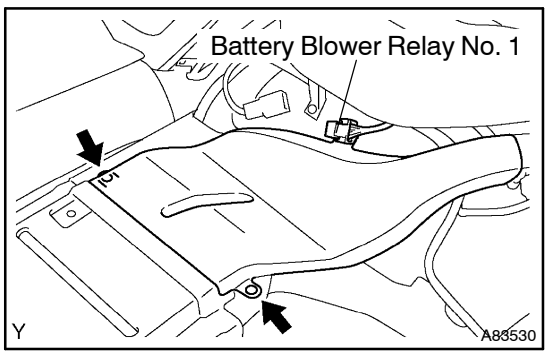
(b) Connect the connector.

(c) Install the clamp.



75. INSTALL BATTERY BRACKET REINFORCEMENT

(a) Install the battery bracket reinforcement with the 7 bolts.
Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)



76. INSTALL QUARTER VENT DUCT INNER NO.2

(a) Insert the quarter vent duct inner No. 2 until the HV battery side touches the back.

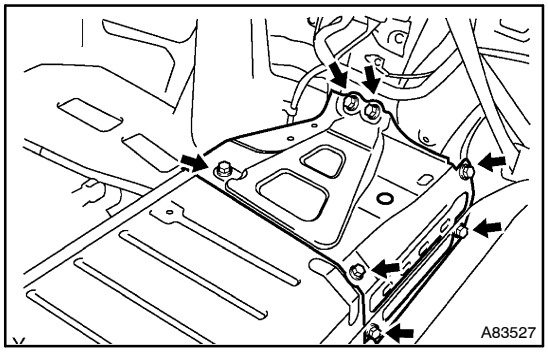
(b) Slide the fitting surface of the quarter vent duct inner No. 2 downward, then let it fit with the battery blower assembly.

NOTICE:

The duct should not be half fit. Ensure that it is installed securely.

(c) Install the 2 clips on the quarter ventilation inner duct No. 2.

(d) Install the battery blower relay No. 1.



77. INSTALL BATTERY CARRIER BRACKET
(a) Install the battery carrier bracket with the 7 bolts.
Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)

78. INSTALL DECK TRIM SIDE PANEL ASSY RH
79. INSTALL DECK TRIM SIDE PANEL ASSY LH
80. INSTALL DECK FLOOR BOX LH
81. INSTALL REAR FLOOR BOARD NO.4
82. INSTALL REAR SIDE SEAT BACK FRAME RH
83. INSTALL REAR SIDE SEAT BACK FRAME LH
84. INSTALL REAR FLOOR BOARD NO.1
85. INSTALL REAR SEAT CUSHION ASSY
86. INSTALL TONNEAU COVER ASSY
87. INSTALL DECK TRIM COVER REAR
88. INSTALL SERVICE PLUG GRIP (See page 21–120)

NOTICE:
Wear insulating gloves.

89. CONNECT BATTERY NEGATIVE TERMINAL
Torque: 6.0 N·m (61 kgf·cm, 53 in.·lbf)
90. INSTALL REAR FLOOR BOARD NO.3
91. INSTALL DECK FLOOR BOX REAR
92. INSTALL REAR FLOOR BOARD NO.2
93. POWER WINDOW CONTROL SYSTEM INITIALIZE (See page 01–29)