

TMC Made:

w/ Engine Immobilizer System:
Transponder Key Amplifier

w/ Illuminated Entry System:
Key Cylinder Lamp Assy

Ignition Switch Lock Cylinder Assy

Un-lock Warning Switch Assy

Steering Column Clamp Upper

Steering Column Upper
w/ Switch Bracket Assy

Ignition or Starter
Switch Assy

Steering Column Tube

◆ Snap Ring

◆ Steering Main Shaft Radial Ball Bearing

Steering Main Shaft Assy

T

◆ Non-reusable part

C92313

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Steering Column Clamp Upper

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Steering Column Assy

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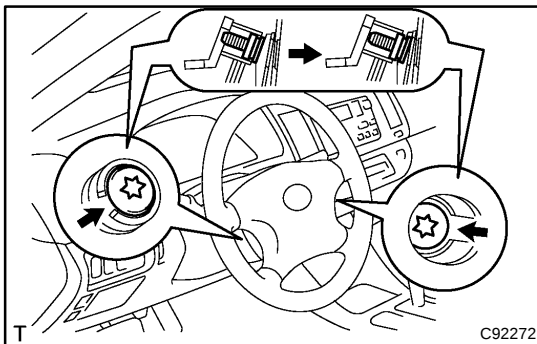
C92652

STEERING COLUMN ASSY (TMC MADE)

5002S-05

OVERHAUL

1. PRECAUTION(See page 60-1)
2. DISCONNECT BATTERY NEGATIVE TERMINAL
3. REMOVE STEERING WHEEL COVER LOWER NO.2(See page 60-25)
4. REMOVE STEERING WHEEL COVER LOWER NO.3 (W/O STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)
5. REMOVE CONNECTOR COVER (W/ STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)
6. REMOVE STEERING WHEEL COVER LOWER NO.3 (3 SPOKE STEERING WHEEL ASSY)(See page 60-25)
7. INSPECT PLACE FRONT WHEELS FACING STRAIGHT AHEAD



8. REMOVE HORN BUTTON ASSY

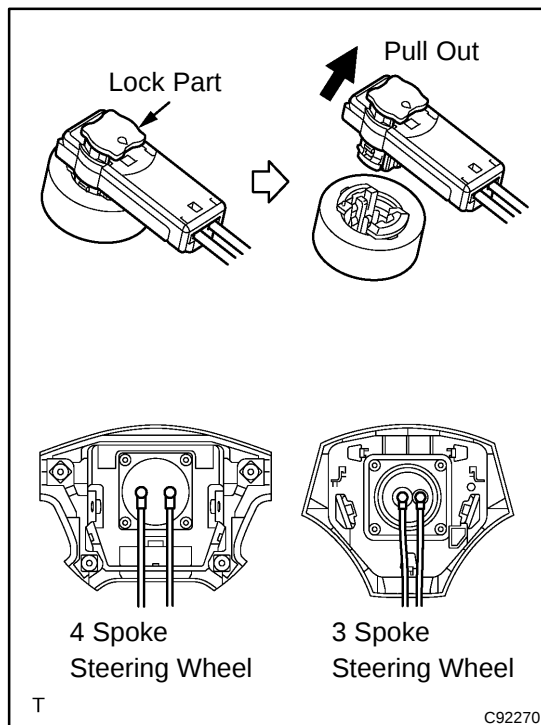
NOTICE:

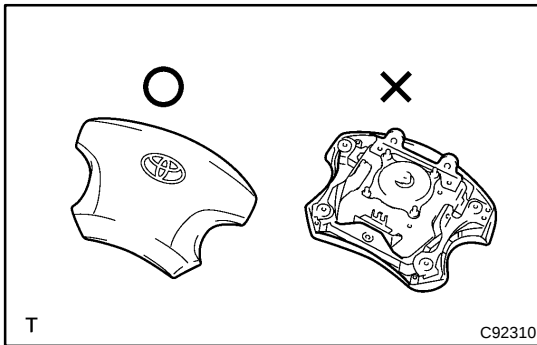
If the airbag connector is disconnected with the ignition switch being at ON, DTCs will be recorded.

- (a) Using a torx® socket wrench, loosen the 2 torx® screws until the groove along the screw circumference catches on the screw case.
- (b) Pull out the horn button assy from the steering wheel.
- (c) Using a screwdriver, release the lock part of each airbag connector and disconnect the 2 airbag connectors.
- (d) Disconnect the horn connector. (4 Spoke steering wheel)

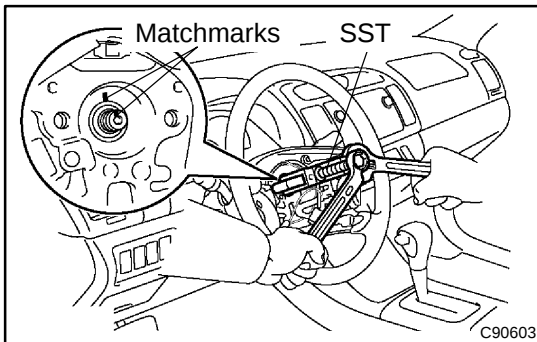
NOTICE:

When removing the horn button assy, take care not to pull the airbag wire harness.

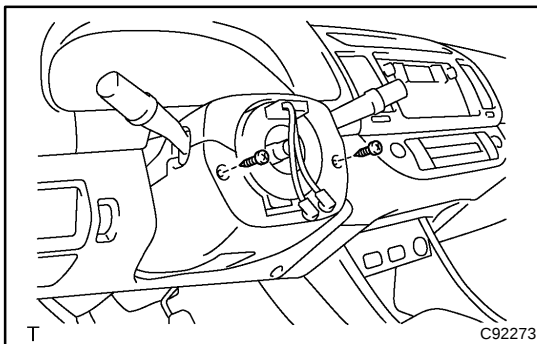


**CAUTION:**

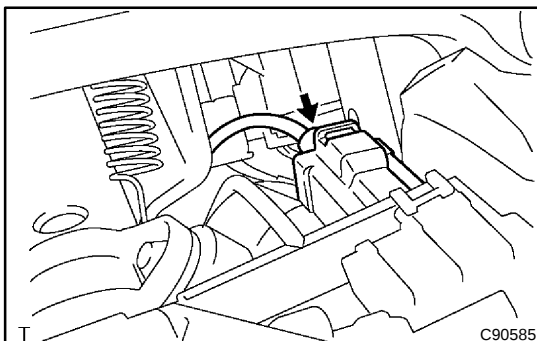
- When storing the horn button assy, keep the upper surface of the horn button assy facing upward.
- Never disassemble the horn button assy.

**9. REMOVE STEERING WHEEL ASSY**

- Disconnect the connector.
 - Remove the steering wheel assy set nut.
 - Place matchmarks on the steering wheel assy and main shaft assy.
 - Using SST, remove the steering wheel assy.
- SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)

10. REMOVE INSTRUMENT CLUSTER FINISH PANEL(See page 71-16)**11. REMOVE STEERING COLUMN COVER**

- Remove the 2 screws and steering column cover.

**12. DISCONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY**

- Using a screwdriver, disconnect the floor shift parking lock cable from the upper bracket.

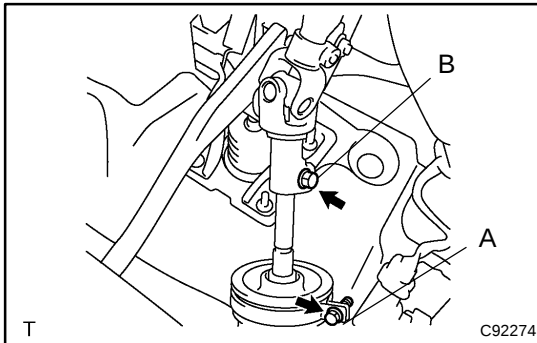
13. REMOVE SPIRAL CABLE SUB-ASSY(See page 60-34)**14. REMOVE HEADLAMP DIMMER SWITCH ASSY**

- Disconnect the connector and remove the headlamp dimmer switch assy.

15. REMOVE WINDSHIELD WIPER SWITCH ASSY

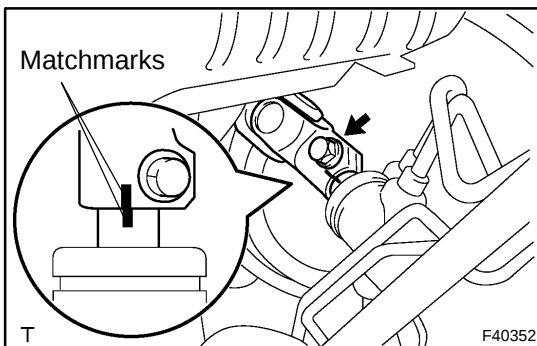
- Disconnect the connector and remove the windshield wiper switch assy.

16. REMOVE FRONT DOOR SCUFF PLATE LH(See page 71-16)
17. REMOVE COWL SIDE TRIM SUB-ASSY LH(See page 71-16)
18. REMOVE INSTRUMENT PANEL COIN BOX SUB-ASSY(See page 71-16)
19. REMOVE INSTRUMENT PANEL SUB-ASSY UPPER(See page 71-16)
20. REMOVE INSTRUMENT PNL INSERT SUB-ASSY LWR LH(See page 71-16)
21. REMOVE HEATER TO FOOT DUCT NO.3(See page 71-16)

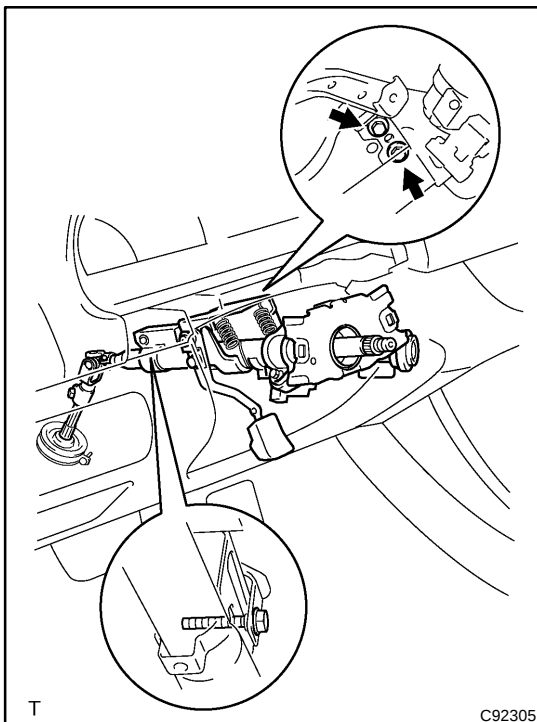


22. DISCONNECT STEERING INTERMEDIATE SHAFT SUB-ASSY

- (a) Loosen the bolt A and remove the clamp from the steering column hole cover No.1.
- (b) Separate the steering column hole cover No.2 from the steering column hole cover No.1.
- (c) Loosen the bolt B.

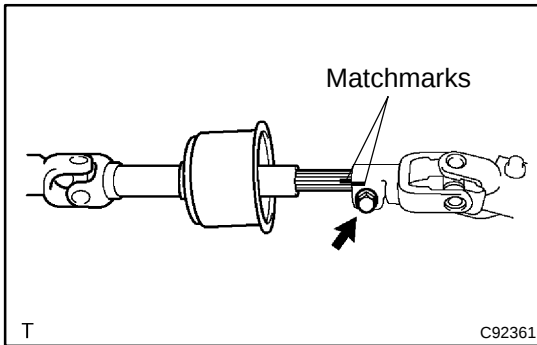


- (d) Place matchmarks on the steering intermediate shaft sub-assy and steering gear assy.
- (e) Remove the bolt and disconnect the steering intermediate shaft sub-assy.



23. REMOVE STEERING COLUMN ASSY

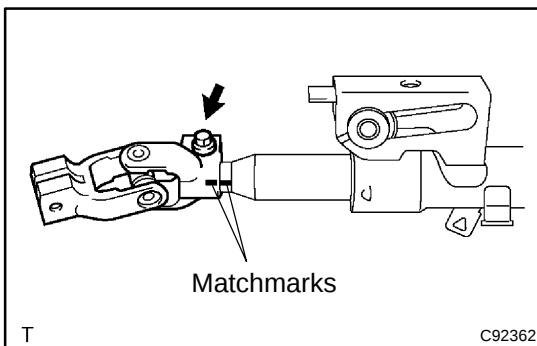
- (a) Disconnect the connectors and wire harness clamps from the steering column assy.
- (b) Remove the 3 bolts and steering column assy.



24. REMOVE STEERING INTERMEDIATE SHAFT SUB-ASSY

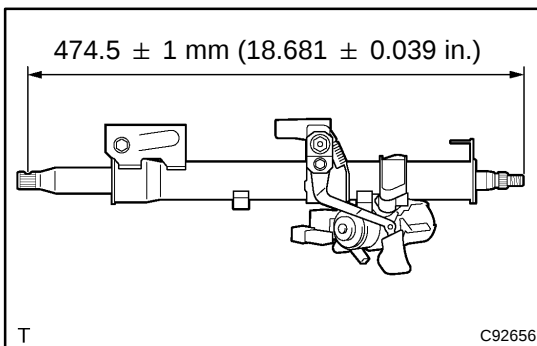
- Place matchmarks on the steering intermediate shaft sub-assy and steering sliding yoke sub-assy.
- Remove the bolt and steering intermediate shaft sub-assy.

25. REMOVE STEERING COLUMN HOLE COVER SUB-ASSY NO.2



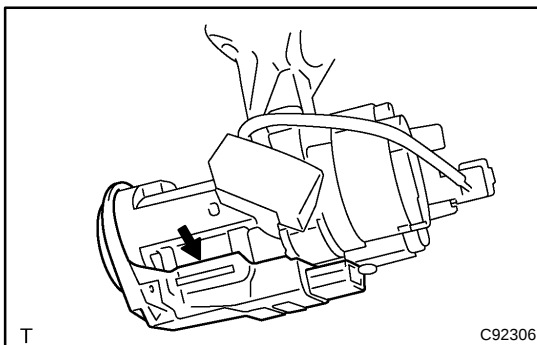
26. REMOVE STEERING SLIDING YOKE SUB-ASSY

- Place matchmarks on the steering sliding yoke sub-assy and steering main shaft assy.
- Remove the bolt and steering sliding yoke sub-assy from the steering main shaft assy.



27. INSPECT STEERING COLUMN ASSY

- Measure the length of steering main shaft.
Standard length: 474.5 ± 1 mm (18.681 ± 0.039 in.)



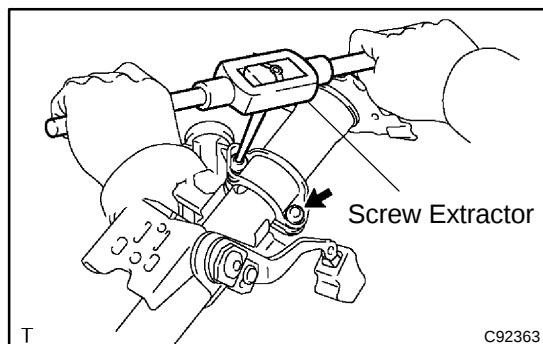
28. REMOVE TRANSPONDER KEY AMPLIFIER (W/ ENGINE IMMOBILISER SYSTEM)

- Disengage the claw hung on the upper bracket with a screwdriver.
- Pull the transponder key amplifier toward the rear of the vehicle with the claw open.

NOTICE:

Take care not to apply excessive force to prevent the case from being damaged.

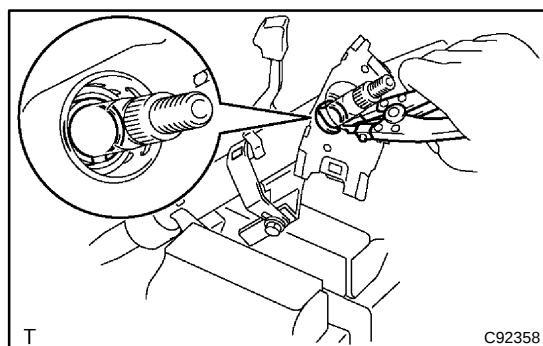
29. REMOVE KEY CYLINDER LAMP ASSY (W/ ILLUMINATED ENTRY SYSTEM)



30. REMOVE STEERING COLUMN UPPER W/SWITCH BRACKET ASSY

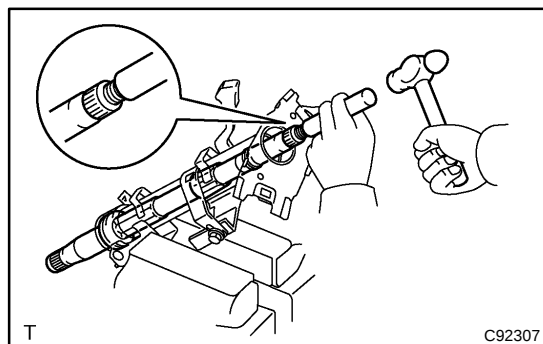
- Using a centering punch, mark the center of the 2 lap-ered-head bolts.
- Using a 3 – 4 mm (0.12 – 0.16 in.) drill, drill into the 2 bolts.
- Using a screw extractor, remove the 2 bolts and steering column upper w/ switch bracket assy.

31. REMOVE STEERING COLUMN CLAMP UPPER



32. REMOVE STEERING MAIN SHAFT ASSY

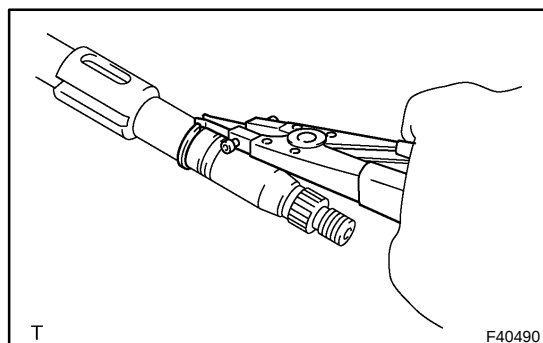
- Using a snap ring expander, remove the steering main shaft snap ring (outer side).



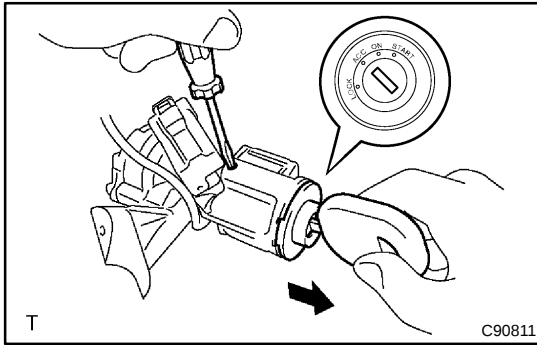
- Using a brass bar and a hammer, remove the steering main shaft assy and steering main shaft radial ball bearing.

NOTICE:

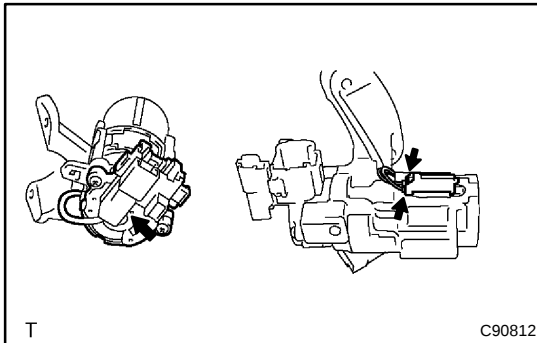
Be careful not to drop the steering main shaft assy.



- Using a snap ring expander, remove the steering main shaft snap ring (inner side).

**33. REMOVE IGNITION SWITCH LOCK CYLINDER ASSY**

- (a) Place the ignition switch lock cylinder assy at the ACC position.
- (b) Push down the stop pin with a screwdriver, and pull out the cylinder assy.

**34. REMOVE UN-LOCK WARNING SWITCH ASSY**

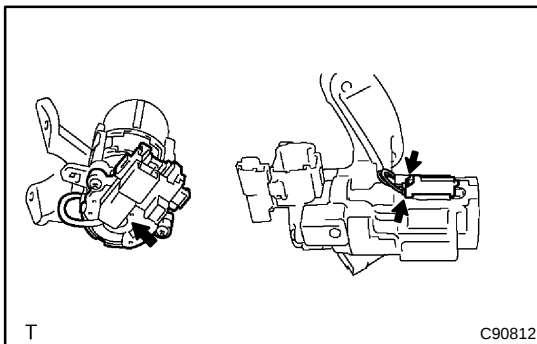
- (a) Disconnect the un-lock warning switch assy connector from the ignition or starter switch assy.
- (b) Remove the un-lock warning switch assy.

35. REMOVE IGNITION OR STARTER SWITCH ASSY

- (a) Remove the 2 screws and ignition or starter switch assy from the steering column bracket assy.

36. INSTALL IGNITION OR STARTER SWITCH ASSY

- (a) Install the ignition or starter switch assy to the steering column bracket assy with the 2 screws.

**37. INSTALL UN-LOCK WARNING SWITCH ASSY**

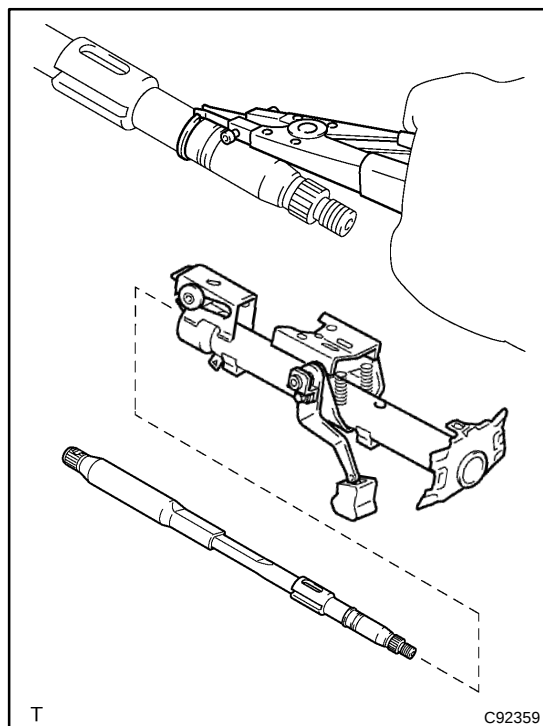
- (a) Install the un-lock warning switch assy.
- (b) Connect the un-lock warning switch assy connector to the ignition or starter switch assy.

38. INSTALL IGNITION SWITCH LOCK CYLINDER ASSY

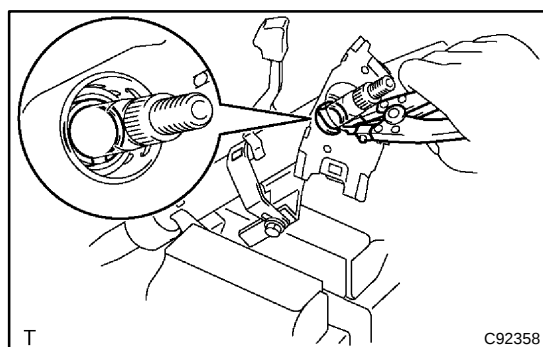
- (a) Make sure that the ignition switch lock cylinder assy is at the ACC position.
- (b) Install the ignition switch lock cylinder assy.

39. INSPECT STEERING LOCK OPERATION

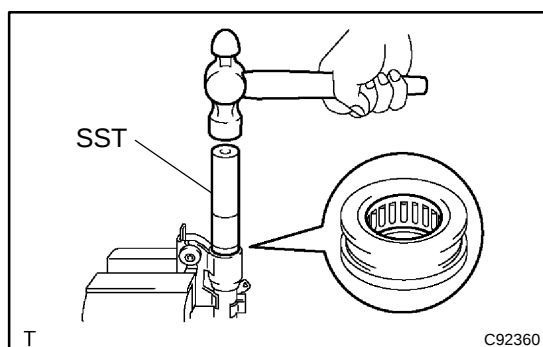
- (a) Check that the steering lock mechanism is activated when removing the key.
- (b) Check that the steering lock mechanism is deactivated when inserting the key and turning it to ACC position.

**40. INSTALL STEERING MAIN SHAFT ASSY**

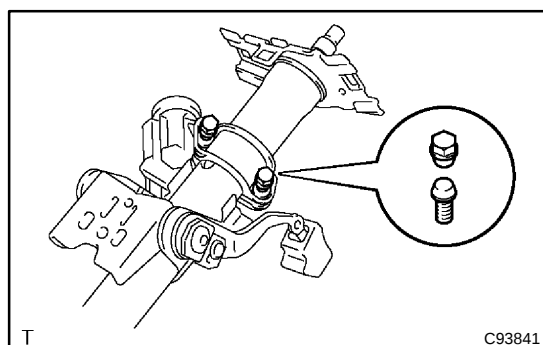
- (a) Using a snap ring expander, install a new steering main shaft snap ring (inner side) to the steering main shaft assy.
- (b) Install the steering main shaft assy to the steering column tube.



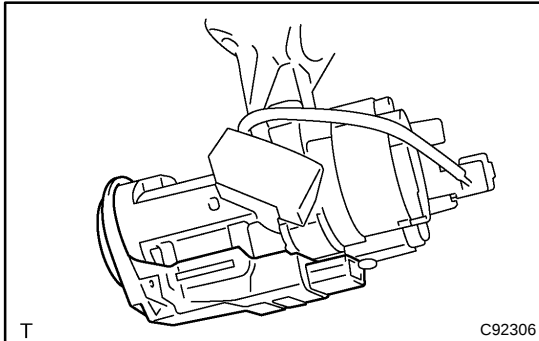
- (c) Using a snap ring expander, install a new steering main shaft snap ring (outer side) to the steering main shaft assy.

**41. INSTALL STEERING MAIN SHAFT BEARING**

- (a) Using SST and a hammer, install a new steering main radial ball bearing.
SST 09608-06041

**42. INSTALL STEERING COLUMN UPPER W/SWITCH BRACKET ASSY**

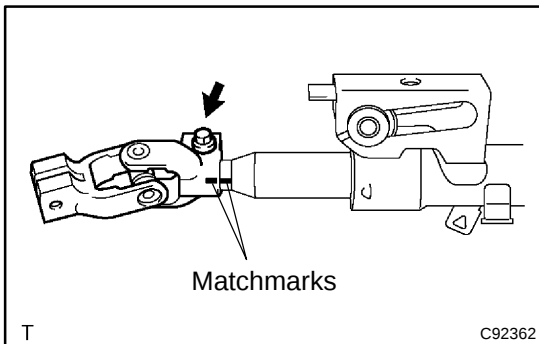
- (a) Temporarily install the steering column upper w/switch bracket assy and steering column upper clamp with 2 new tapered-head bolts.
- (b) Tighten the 2 tapered-head bolts until the bolt heads break off.

43. INSTALL KEY CYLINDER LAMP ASSY (W/ ILLUMINATED ENTRY SYSTEM)**44. INSTALL TRANSPONDER KEY AMPLIFIER (W/ ENGINE IMMOBILISER SYSTEM)**

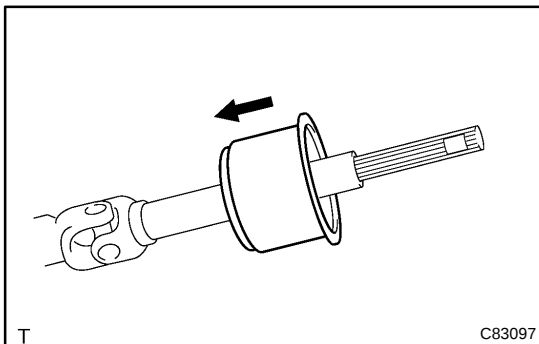
- (a) Align the transponder key amplifier with the installation position of the upper bracket with the amplifier inclined.
- (b) Push the transponder key amplifier up and connect it to the upper bracket.

NOTICE:

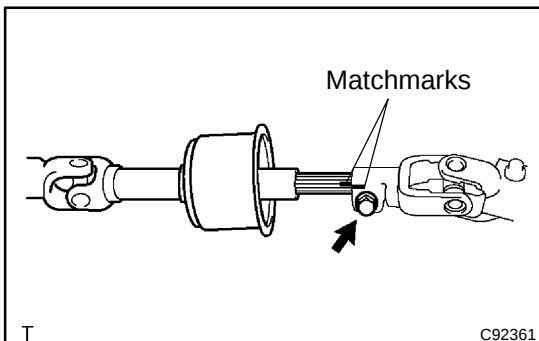
Take care not to push the amplifier up with excessive force to prevent it from being damaged.

**45. INSTALL STEERING SLIDING YOKE SUB-ASSY**

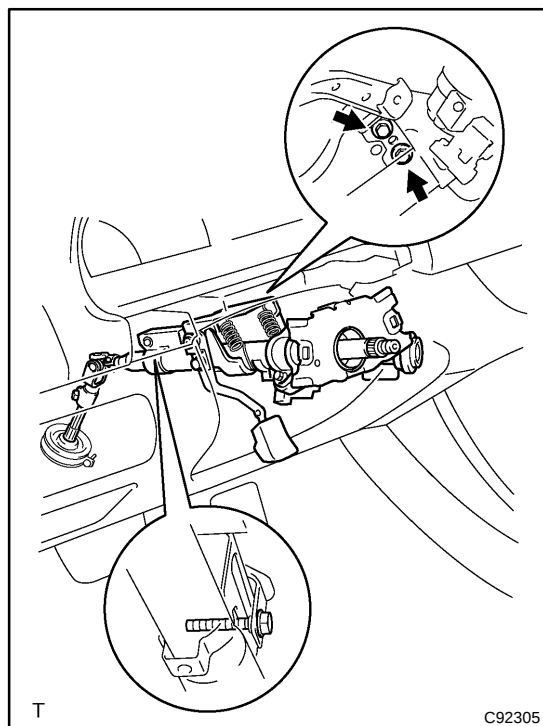
- (a) Align the matchmark with the one on the steering sliding yoke sub-assy and steering main shaft assy.
- (b) Install the steering sliding yoke sub-assy with the bolt.
Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)

**46. INSTALL STEERING COLUMN HOLE COVER SUB-ASSY NO.2**

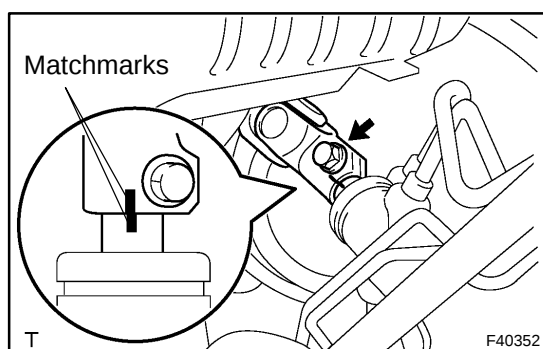
- (a) Install the steering column hole cover sub-assy No.2 to the steering intermediate shaft sub-assy.

**47. INSTALL STEERING INTERMEDIATE SHAFT SUB-ASSY**

- (a) Align the matchmark with the one on the steering intermediate shaft sub-assy and steering main shaft assy.
- (b) Temporarily install the steering intermediate shaft sub-assy with the bolt.

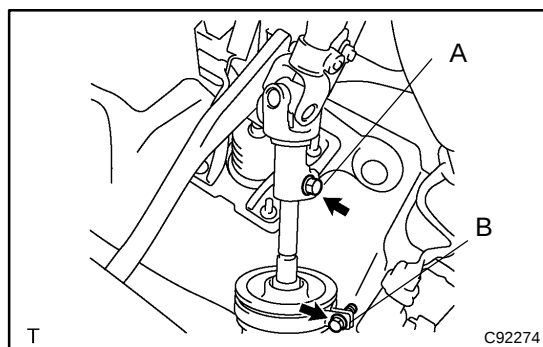
**48. INSTALL STEERING COLUMN ASSY**

- (a) Install the steering column assy with the 3 bolts.
Torque: 20.6 N·m (210 kgf·cm, 15 ft·lbf)
- (b) Connect the connectors and wire harness clamps.

**49. CONNECT STEERING INTERMEDIATE SHAFT SUB-ASSY**

- (a) Align the matchmarks on the intermediate shaft sub-assy and steering gear assy.
- (b) Install the steering intermediate shaft sub-assy with the bolt.

Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)



- (c) Tighten the bolt A.
Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)
- (d) Install the steering column hole cover No. 2 to the steering hole cover No.1.
- (e) Connect the clamp to the steering column hole cover No.1 and tighten the bolt B.

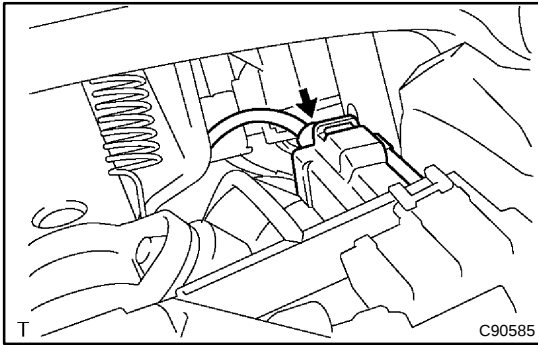
50. INSTALL WINDSHIELD WIPER SWITCH ASSY

- (a) Install the windshield wiper switch assy and connect the connector.

51. INSTALL HEADLAMP DIMMER SWITCH ASSY

- (a) Install the headlamp dimmer switch assy and connect the connector.

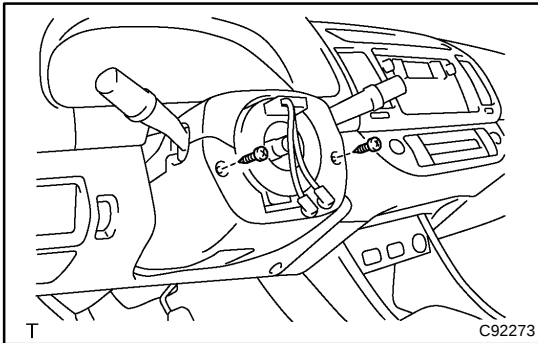
52. PLACE FRONT WHEELS FACING STRAIGHT AHEAD**53. INSTALL SPIRAL CABLE SUB-ASSY(See page 60-34)**



54. CONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY

- (a) Turn the ignition switch to ACC or ON.
- (b) Connect the cable to the upper bracket.

55. CHECK KEY INTERLOCK OPERATION(See page 40-51)



56. INSTALL STEERING COLUMN COVER

- (a) Install the steering column cover with the 2 screws.

57. INSTALL INSTRUMENT CLUSTER FINISH PANEL

58. INSTALL HEATER TO FOOT DUCT NO.3

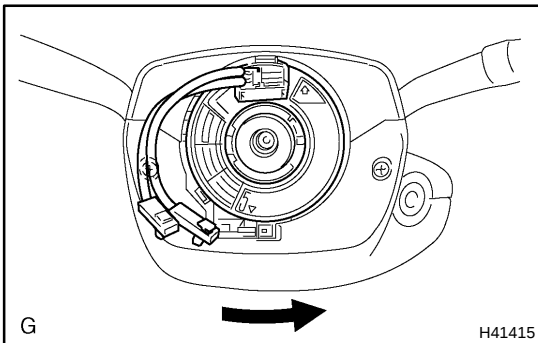
59. INSTALL INSTRUMENT PNL INSERT SUB-ASSY LWR LH

60. INSTALL INSTRUMENT PANEL SUB-ASSY UPPER

61. INSTALL INSTRUMENT PANEL COIN BOX SUB-ASSY

62. INSTALL COWL SIDE TRIM SUB-ASSY LH

63. INSTALL FRONT DOOR SCUFF PLATE LH



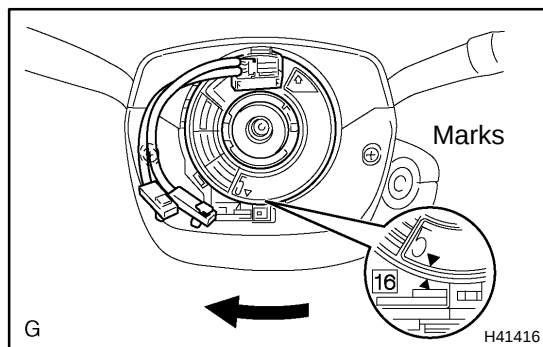
64. CENTER SPIRAL CABLE

- (a) Check that the ignition switch is at OFF.
- (b) Check that the battery negative terminal is disconnected.

NOTICE:

Do not start the operation for 90 seconds after removing the terminal.

- (c) Turn the cable counterclockwise by hand until it becomes harder to turn.



- (d) Then rotate the cable clockwise about 2.5 turns to align the marks.

HINT:

The cable will rotate about 2.5 turns to both right and left of the center.

65. INSTALL STEERING WHEEL ASSY

- (a) Align the matchmark with the one on the steering wheel assy and steering main shaft assy.
- (b) Install the steering wheel assy with the set nut.

Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)

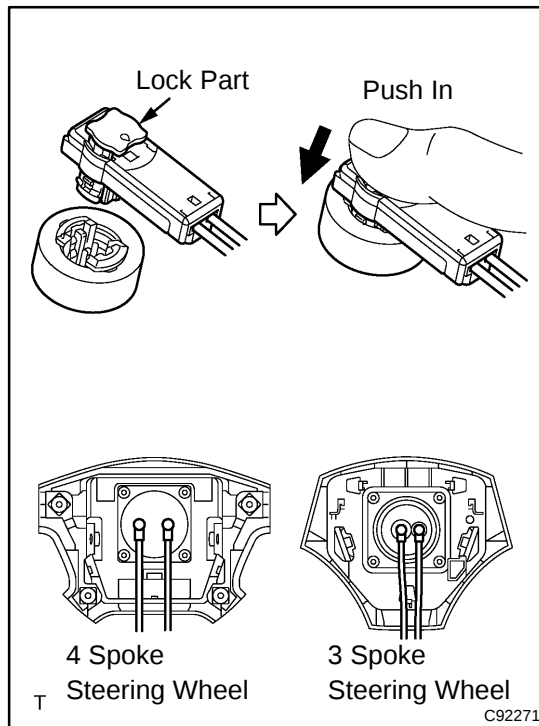
- (c) Connect the connector.

66. INSPECT HORN BUTTON ASSY(See page 60-25)

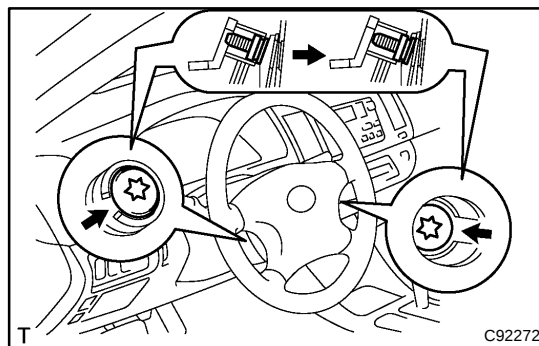
67. INSTALL HORN BUTTON ASSY

NOTICE:

- Never use the airbag parts removed from another vehicle. When replacing parts, replace with new ones.
- Make sure that the horn button assy is installed with the specified torque.
- If the horn button assy has been dropped, or there are cracks, dents or other defects in the case or connector, replace the horn button assy with a new one.
- When installing the horn button assy, take care so that the wirings do not interfere with other parts and that they are not pinched between other parts.



- (a) Connect the 2 airbag connectors.
- (b) Connect the horn connector. (4 Spoke steering wheel)



- (c) Install the horn button assy after confirming that the circumference groove of the torx® screws is caught on the screw case.
- (d) Using a torx® socket wrench, torque the 2 screws.
Torque: 8.8 N·m (90 kgf·cm, 78 in·lbf)

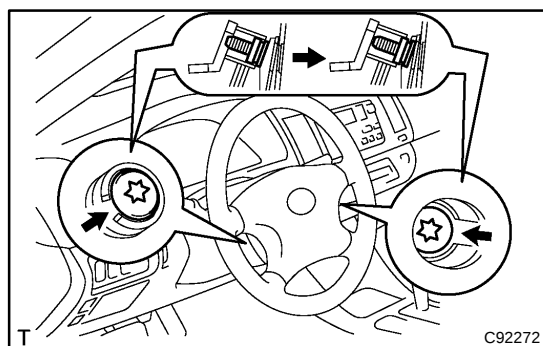
- 68. INSTALL STEERING WHEEL COVER LOWER NO.2(See page 60-25)
- 69. INSTALL STEERING WHEEL COVER LOWER NO.3 (W/O STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)
- 70. INSTALL CONNECTOR COVER (W/ STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)
- 71. INSTALL STEERING WHEEL COVER LOWER NO.3 (3 SPOKE STEERING WHEEL ASSY)(See page 60-25)
- 72. INSPECT STEERING WHEEL CENTER POINT
- 73. INSPECT SRS WARNING LIGHT(See page 05-1456)

STEERING COLUMN ASSY (TMMK MADE)

5002T-06

OVERHAUL

1. PRECAUTION(See page 60-1)
2. SEPARATE BATTERY NEGATIVE TERMINAL
3. REMOVE STEERING WHEEL COVER LOWER NO.2(See page 60-25)
4. REMOVE STEERING WHEEL COVER LOWER NO.3 (W/O STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)
5. REMOVE CONNECTOR COVER (W/ STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)
6. REMOVE STEERING WHEEL COVER LOWER NO.3 (3 SPOKE STEERING WHEEL ASSY)(See page 60-25)
7. PLACE FRONT WHEELS FACING STRAIGHT AHEAD



8. REMOVE HORN BUTTON ASSY

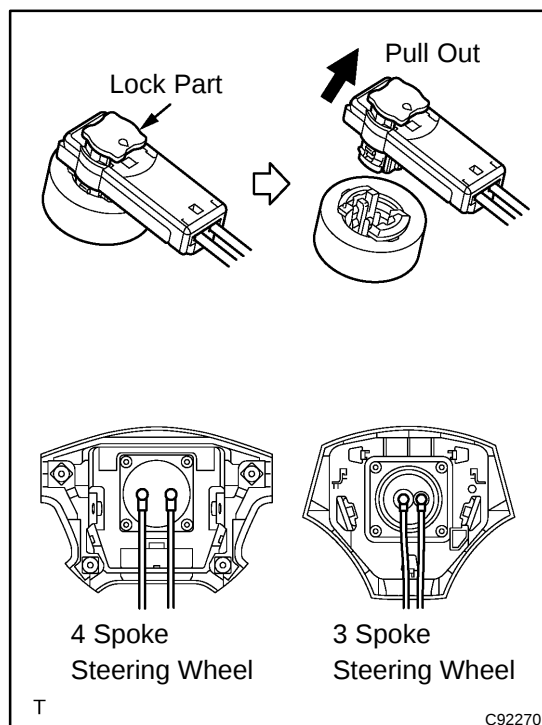
NOTICE:

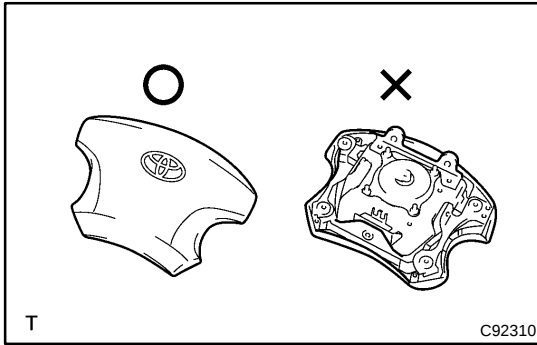
If the airbag connector is disconnected with the ignition switch at ON, DTCs will be recorded.

- (a) Using a torx® socket wrench, loosen the 2 torx® screws until the groove along the screw circumference catches on the screw case.
- (b) Pull out the horn button assy from the steering wheel.
- (c) Using a screwdriver, release the lock part of each airbag connector and disconnect the 2 airbag connectors.
- (d) Disconnect the horn connector. (4 Spoke steering wheel)

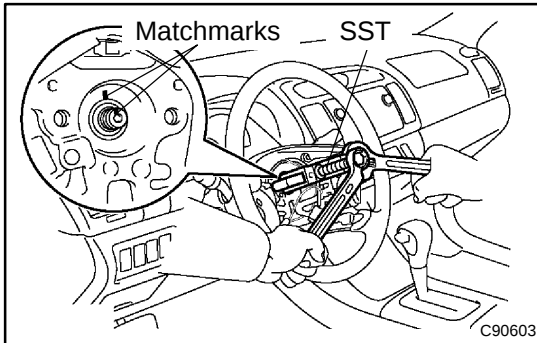
NOTICE:

When removing the horn button assy, take care not to pull the airbag wire harness.

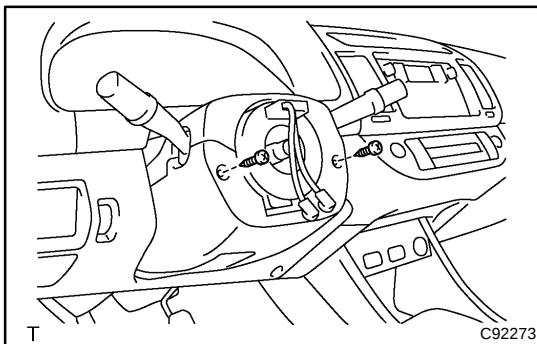


**CAUTION:**

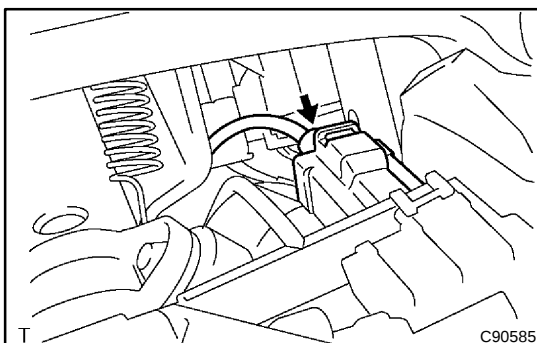
- When storing the horn button assy, keep the upper surface of the pad facing upward.
- Never disassemble the horn button assy.

**9. REMOVE STEERING WHEEL ASSY**

SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)

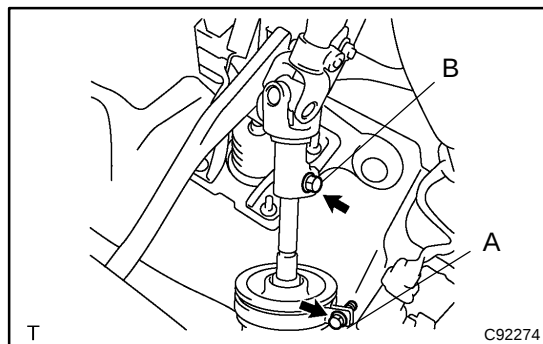
10. REMOVE INSTRUMENT CLUSTER FINISH PANEL ASSY(See page 71-16)**11. REMOVE STEERING COLUMN COVER LWR**

- (a) Remove the 2 screws and steering column cover upper.

12. REMOVE STEERING COLUMN COVER UPR**13. DISCONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY**

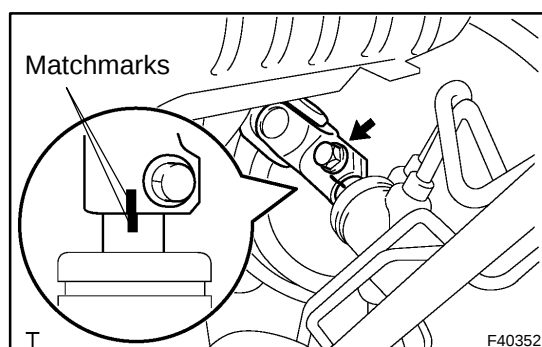
- (a) Using a screwdriver, disconnect the floor shift parking lock cable from the upper bracket.

14. REMOVE SPIRAL CABLE SUB-ASSY(See page 05-1456)
15. REMOVE HEADLAMP DIMMER SWITCH ASSY
 - (a) Disconnect the connector and remove the headlamp dimmer switch assy.
16. REMOVE WINDSHIELD WIPER SWITCH ASSY
 - (a) Disconnect the connector and remove the windshield wiper switch assy.
17. REMOVE FRONT DOOR SCUFF PLATE LH(See page 71-16)
18. REMOVE COWL SIDE TRIM SUB-ASSY LH(See page 71-16)
19. REMOVE INSTRUMENT PANEL FINISH LOWER PANEL LH(See page 71-16)
20. REMOVE INSTRUMENT PNL INSERT SUB-ASSY LWR LH(See page 71-16)
21. REMOVE HEATER TO FOOT DUCT NO.3(See page 71-16)

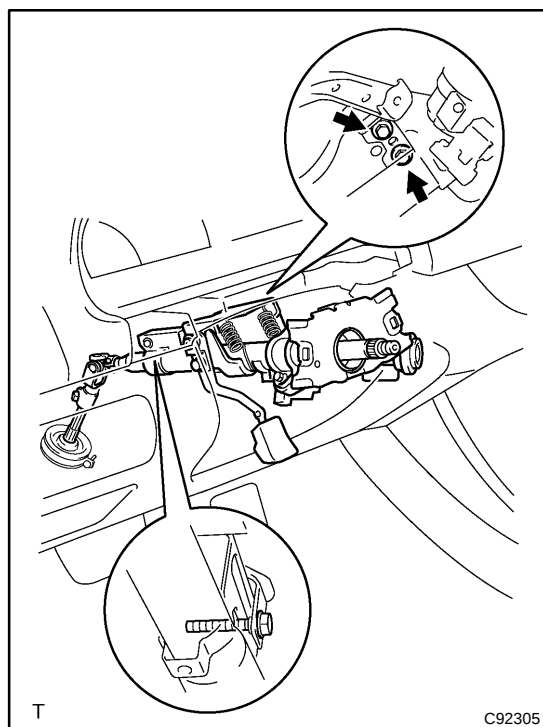


22. DISCONNECT STEERING INTERMEDIATE SHAFT ASSY

- (a) Loosen the bolt A and remove the clamp from the steering column hole cover No.1.
- (b) Separate the steering column hole cover No.2 from the steering column hole cover No.1.
- (c) Loosen the bolt B.

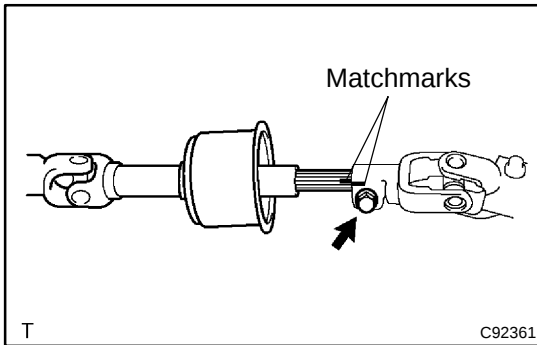


- (d) Place matchmarks on the steering intermediate shaft sub-assy and steering gear assy.
- (e) Remove the bolt and disconnect the steering intermediate shaft sub-assy.

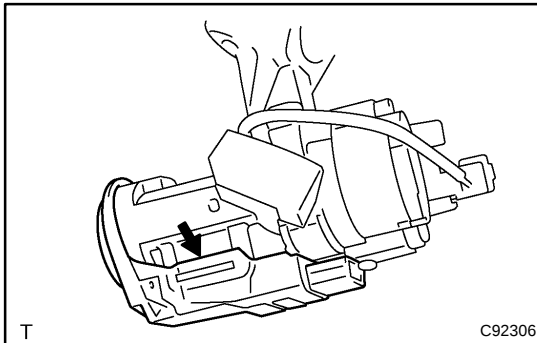


23. REMOVE STEERING COLUMN ASSY

- (a) Disconnect the connectors and wire harness clamps from the steering column assy.
- (b) Remove the 3 bolts and steering column assy.

**24. REMOVE STEERING INTERMEDIATE SHAFT ASSY**

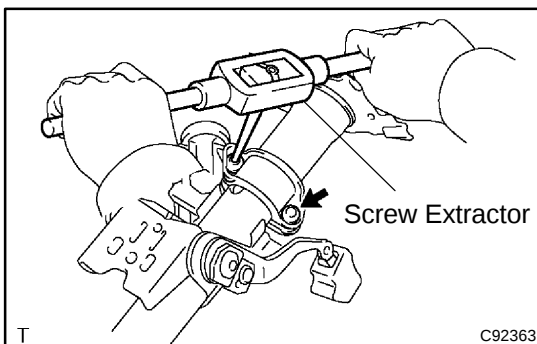
- Place matchmarks on the steering intermediate shaft sub-assy and steering sliding yoke sub-assy.
- Remove the bolt and steering intermediate shaft sub-assy.

**25. REMOVE TRANSPONDER KEY AMPLIFIER (W/ ENGINE IMMOBILISER SYSTEM)**

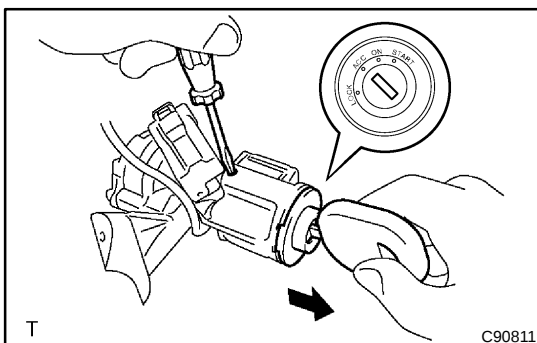
- Disengage the claw hung on the upper bracket with a screwdriver.
- Pull the transponder key amplifier toward the rear of the vehicle with the claw open.

NOTICE:

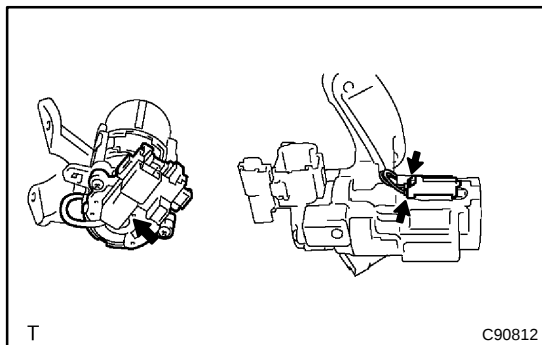
Take care not to apply excessive force to prevent the case from being damaged.

26. REMOVE KEY CYLINDER LAMP ASSY (W/ ILLUMINATED ENTRY SYSTEM)**27. REMOVE STEERING COLUMN UPPER W/SWITCH BRACKET ASSY**

- Using a centering punch, mark the center of the 2 tapered-head bolts.
- Using a 3 – 4 mm (0.12 – 0.16 in.) drill, drill into the 2 bolts.
- Using a screw extractor, remove the 2 bolts and steering column upper w/ switch bracket assy.

28. REMOVE STEERING COLUMN CLAMP UPPER**29. REMOVE IGNITION SWITCH LOCK CYLINDER ASSY**

- Place the ignition switch lock cylinder assy at the ACC position.
- Push down the stop pin with a screwdriver, and pull out the cylinder assy.

**30. REMOVE UN-LOCK WARNING SWITCH ASSY**

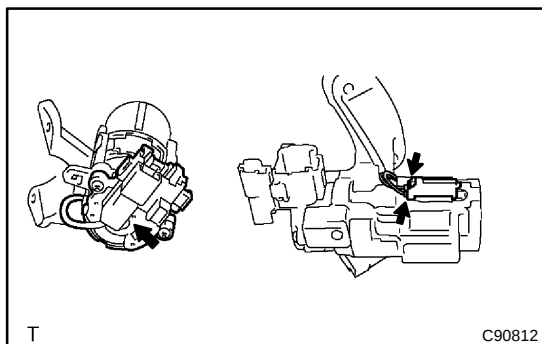
- (a) Disconnect the un-lock warning switch assy connector from the ignition or starter switch assy.
- (b) Remove the un-lock warning switch assy.

31. REMOVE IGNITION OR STARTER SWITCH ASSY

- (a) Remove the 2 screws and ignition or starter switch assy from the steering column bracket assy.

32. INSTALL IGNITION OR STARTER SWITCH ASSY

- (a) Install the ignition or starter switch assy to the steering column bracket assy with the 2 screws.

**33. INSTALL UN-LOCK WARNING SWITCH ASSY**

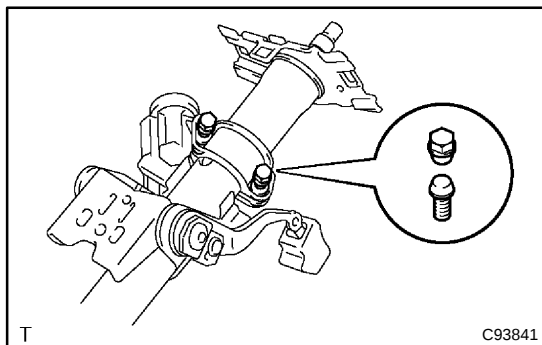
- (a) Install the un-lock warning switch assy.
- (b) Connect the un-lock warning switch assy connector to the ignition or starter switch assy.

34. INSTALL IGNITION SWITCH LOCK CYLINDER ASSY

- (a) Make sure that the ignition switch lock cylinder assy is at the ACC position.
- (b) Install the ignition switch lock cylinder assy.

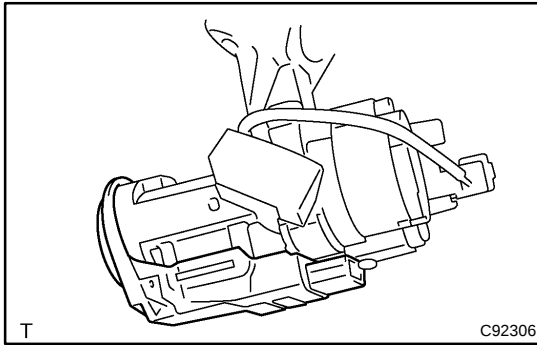
35. INSPECT STEERING LOCK OPERATION

- (a) Check that the steering lock mechanism is activated when removing the key.
- (b) Check that the steering lock mechanism is deactivated when inserting the key and turning it to ACC position.

**36. INSTALL STEERING COLUMN UPPER W/SWITCH BRACKET ASSY**

- (a) Temporarily install the steering column upper w/switch bracket assy and steering column upper clamp with 2 new tapered-head bolts.
- (b) Tighten the 2 tapered-head bolts until the bolt heads break off.

37. INSTALL KEY CYLINDER LAMP ASSY (W/ ILLUMINATED ENTRY SYSTEM)

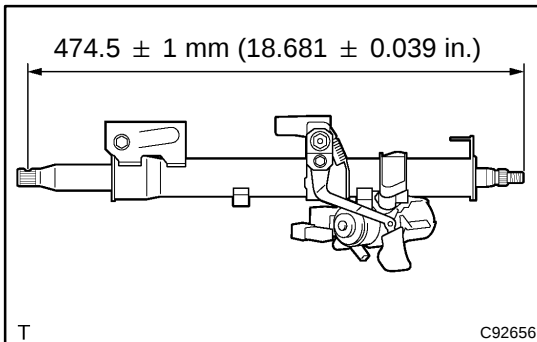


38. INSTALL TRANSPONDER KEY AMPLIFIER (W/ ENGINE IMMOBILISER SYSTEM)

- Align the transponder key amplifier with the installation position of the upper bracket with the amplifier inclined.
- Push the transponder key amplifier up and connect it to the upper bracket.

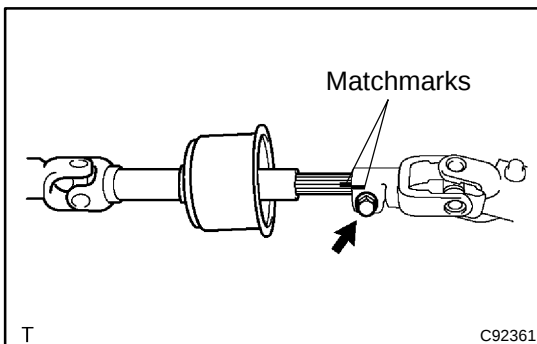
NOTICE:

Take care not to push the amplifier up with excessive force to prevent it from being damaged.



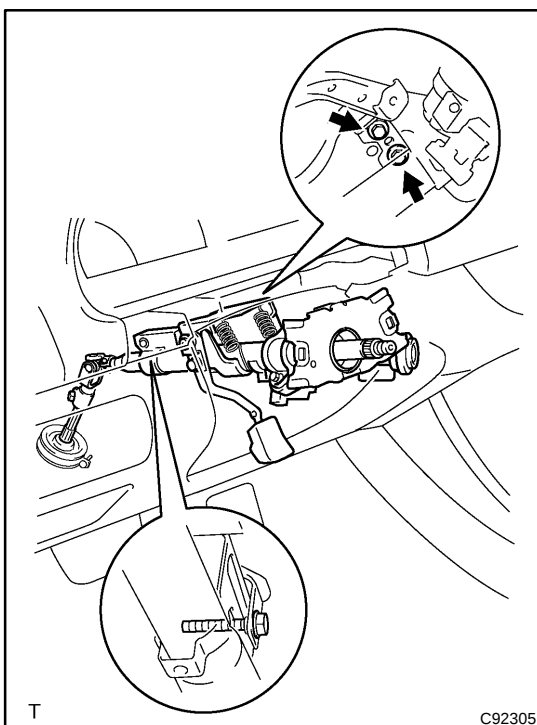
39. INSPECT STEERING COLUMN ASSY

- Measure the length of steering main shaft.
Standard length: 474.5 ± 1 mm (18.681 ± 0.039 in.)



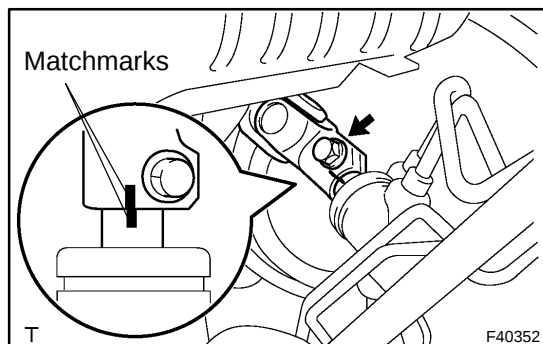
40. INSTALL STEERING INTERMEDIATE SHAFT ASSY

- Align the matchmark with the one on the steering intermediate shaft sub-assy and steering main shaft assy.
- Temporarily install the steering intermediate shaft sub-assy with the bolt.



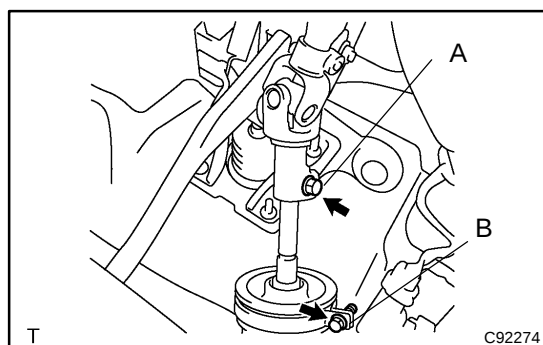
41. INSTALL STEERING COLUMN ASSY

- Install the steering column assy with the 3 bolts.
Torque: 20.6 N·m (210 kgf·cm, 15 ft·lbf)
- Connect the connectors and wire harness clamps.



- 42. CONNECT STEERING INTERMEDIATE SHAFT ASSY**
- (a) Align the matchmarks on the intermediate shaft sub-assy and steering gear assy.
 - (b) Install the steering intermediate shaft sub-assy with the bolt.

Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)



- (c) Tighten the bolt A.
- (d) Install the steering column hole cover No. 2 to the steering column hole cover No. 1.
- (e) Connect the clamp to the steering column hole cover No. 1 and tighten the bolt B.

Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)

43. INSTALL HEADLAMP DIMMER SWITCH ASSY

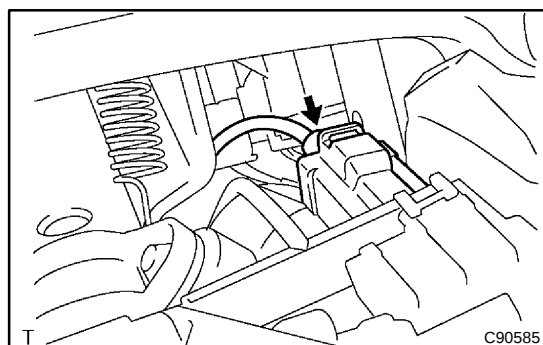
- (a) Install the windshield wiper switch assy and connect the connector.

44. INSTALL WINDSHIELD WIPER SWITCH ASSY

- (a) Install the headlamp dimmer switch assy and connect the connector.

45. PLACE FRONT WHEELS FACING STRAIGHT AHEAD

46. INSTALL SPIRAL CABLE SUB-ASSY(See page 60-34)

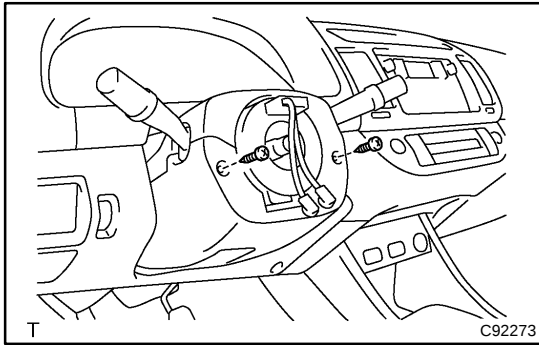


47. CONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY

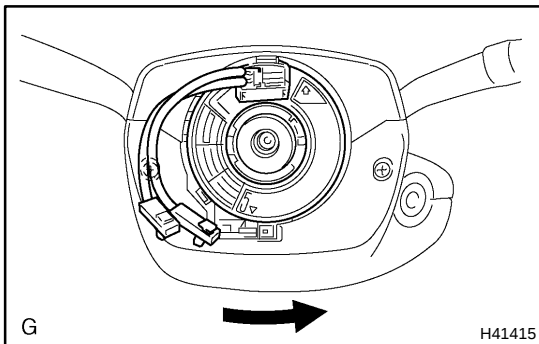
- (a) Turn the ignition switch to ACC or ON.
- (b) Connect the cable to the upper bracket.

48. CHECK KEY INTERLOCK OPERATION(See page 40-51)

49. INSTALL STEERING COLUMN COVER UPR

**50. INSTALL STEERING COLUMN COVER LWR**

- (a) Install the steering column cover with the 2 screws.

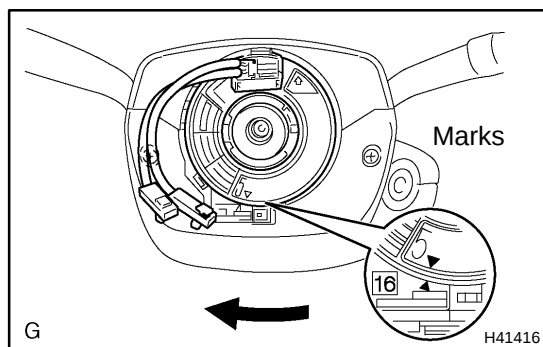
51. INSTALL INSTRUMENT CLUSTER FINISH PANEL ASSY**52. INSTALL HEATER TO FOOT DUCT NO.3****53. INSTALL INSTRUMENT PNL INSERT SUB-ASSY LWR LH****54. INSTALL INSTRUMENT PANEL FINISH LOWER PANEL LH****55. INSTALL COWL SIDE TRIM SUB-ASSY LH****56. INSTALL FRONT DOOR SCUFF PLATE LH****57. CENTER SPIRAL CABLE**

- (a) Check that the ignition switch is to OFF.
 (b) Check that the battery negative terminal is disconnected.

NOTICE:

Do not start the operation for 90 seconds after removing the terminal.

- (c) Turn the cable counterclockwise by hand until it becomes harder to turn.



- (d) Then rotate the cable clockwise about 2.5 turns to align the marks.

HINT:

The cable will rotate about 2.5 turns to both right and left of the center.

58. INSTALL STEERING WHEEL ASSY

- (a) Align the matchmark with the one on the steering wheel assy and steering main shaft assy.
 (b) Install the steering wheel assy with the set nut.

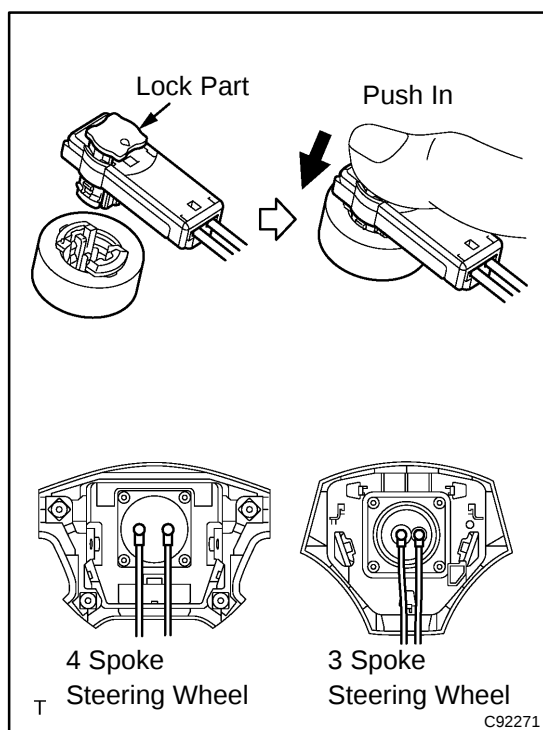
Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)

- (c) Connect the connector.

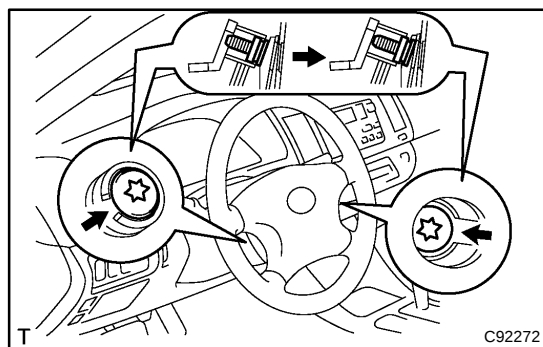
59. INSPECT HORN BUTTON ASSY(See page 60-25)

60. INSTALL HORN BUTTON ASSY**NOTICE:**

- Never use the airbag parts removed from another vehicle. When replacing parts, replace with new ones.
- Make sure that the horn button assy is installed with the specified torque.
- If the horn button assy has been dropped, or there are cracks, dents or other defects in the case or connector, replace the horn button assy with a new one.
- When installing the horn button assy, take care so that the wirings do not interfere with other parts and that they are not pinched between other parts.



- (a) Connect the 2 airbag connectors.
- (b) Connect the horn connector. (4 Spoke steering wheel)



- (c) Install the horn button assy after confirming that the circumference groove of the torx® screws is caught on the screw case.
- (d) Using a torx® socket wrench, torque the 2 screws.
Torque: 8.8 N·m (90 kgf·cm, 78 in.·lbf)

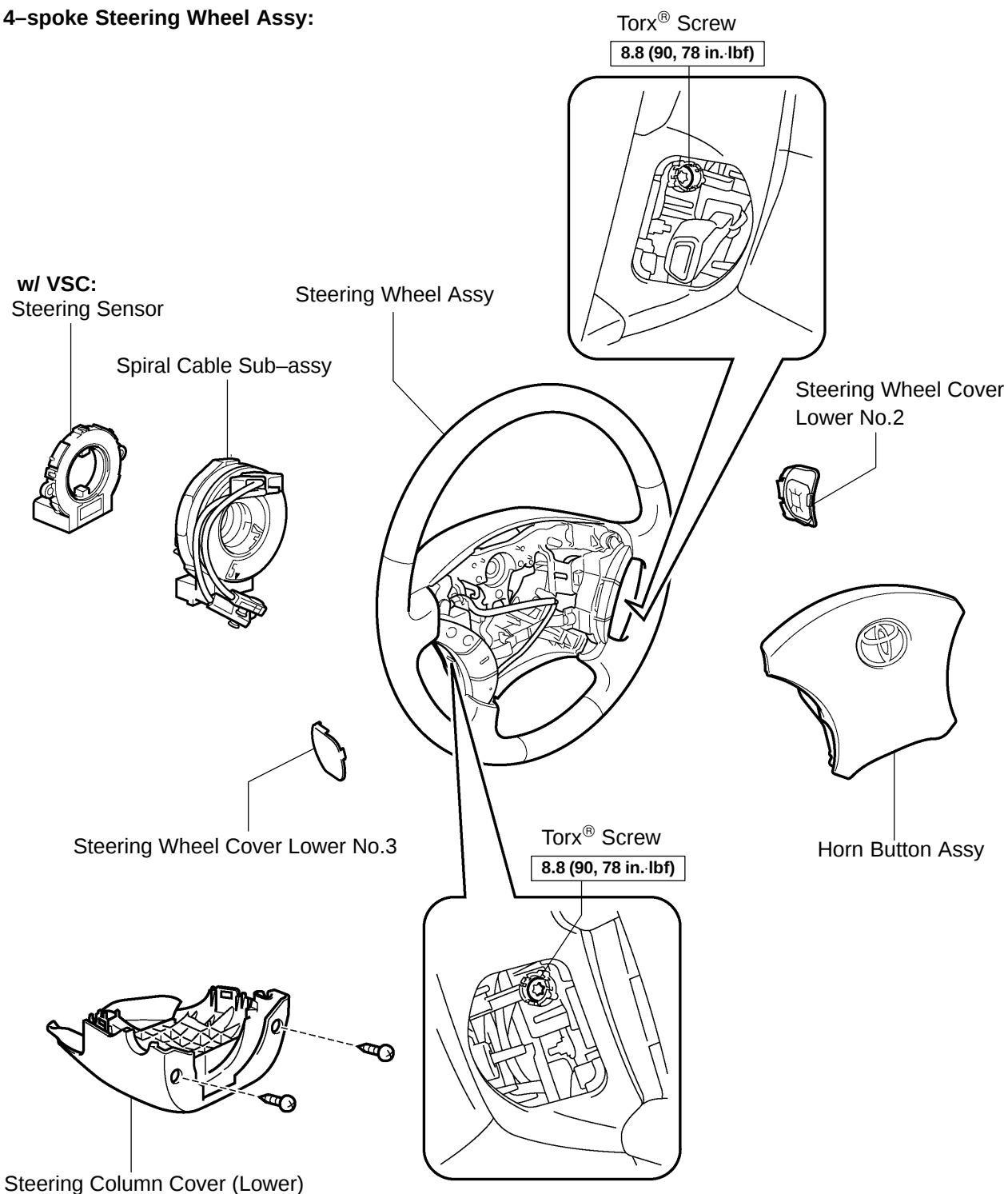
61. INSTALL STEERING WHEEL COVER LOWER NO.2(See page 60-25)**62. INSTALL STEERING WHEEL COVER LOWER NO.3 (W/O STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)****63. INSTALL CONNECTOR COVER (W/ STEERING PAD SWITCH 4 SPOKE STEERING WHEEL)(See page 60-25)**

- 64. INSTALL STEERING WHEEL COVER LOWER NO.3 (3 SPOKE STEERING WHEEL ASSY)(See page [60-25](#))
- 65. INSPECT STEERING WHEEL CENTER POINT
- 66. INSPECT SRS WARNING LIGHT(See page [05-1456](#))

HORN BUTTON ASSY COMPONENTS

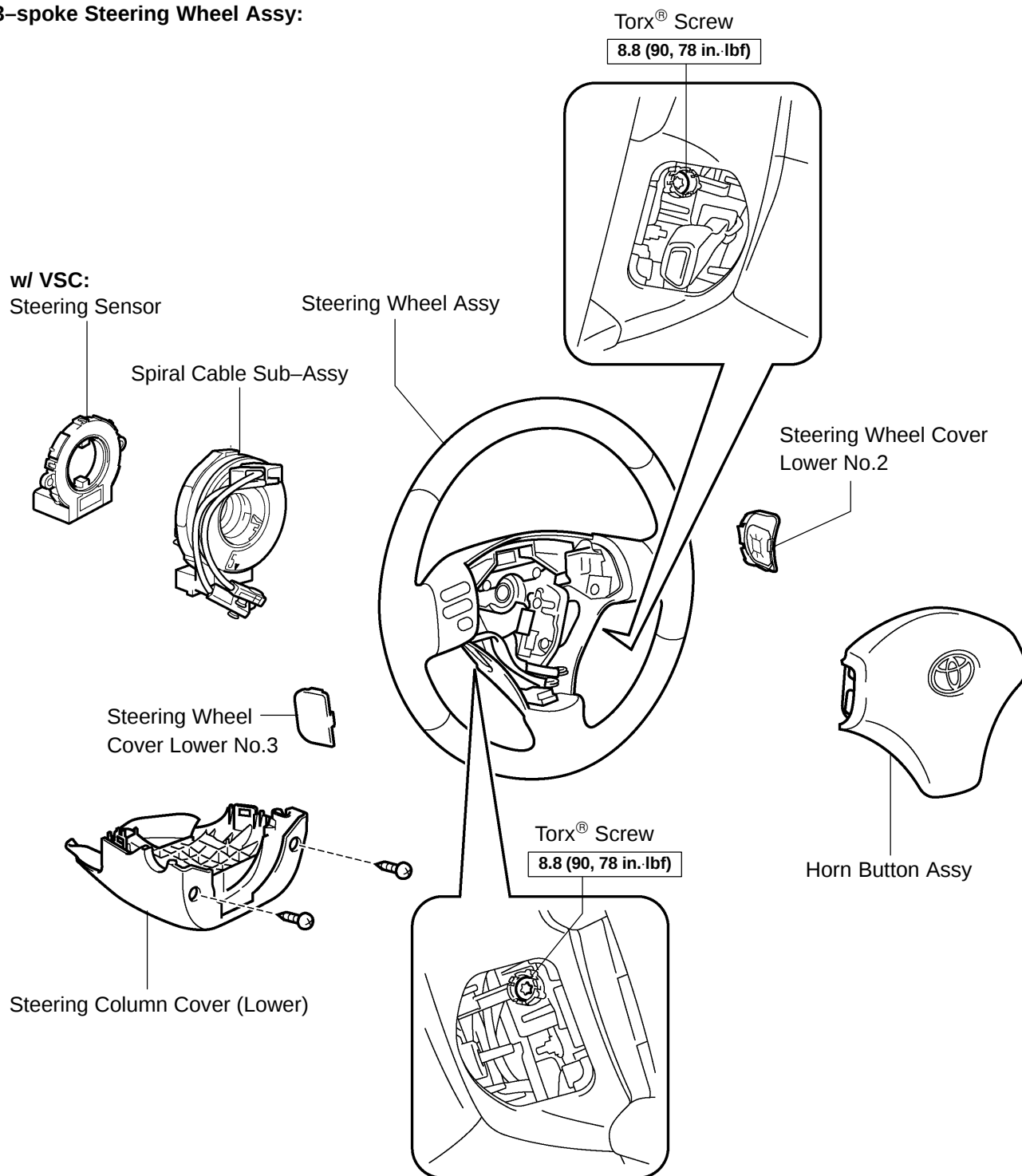
600Y3-01

4-spoke Steering Wheel Assy:



C N·m (kgf·cm, ft·lbf) : Specified torque

H45529

3-spoke Steering Wheel Assy:

C N·m (kgf·cm, ft·lbf) : Specified torque

H45530

REPLACEMENT

HINT:

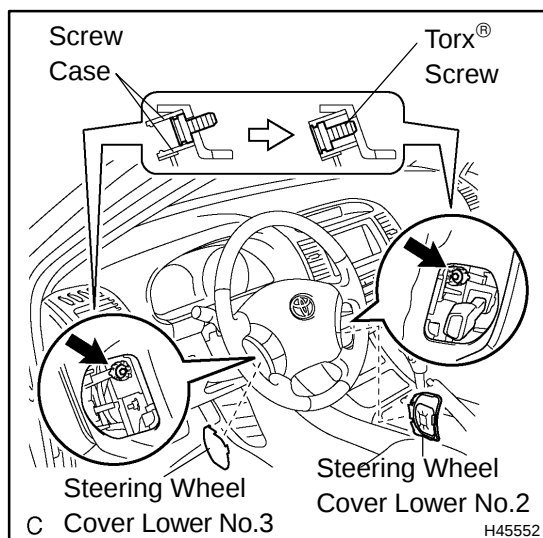
- Installation is in the reverse order of removal.
- There are two types of horn button assy:
One is used with 3-spoke steering wheel assy and the other is used with 4-spoke steering wheel assy.

1. PRECAUTION (See page 60-1)

2. DISCONNECT BATTERY NEGATIVE TERMINAL

CAUTION:

After removing the terminal, wait for at least 90 seconds before starting the operation.



3. REMOVE STEERING WHEEL COVER LOWER NO.2

- (a) Using a screwdriver, remove the steering wheel cover lower No.2.

HINT:

Tape up the screwdriver tip before use.

4. REMOVE STEERING WHEEL COVER LOWER NO.3

- (a) Using a screwdriver, remove the steering wheel cover lower No.3.

HINT:

Tape up the screwdriver tip before use.

5. REMOVE HORN BUTTON ASSY

- (a) Place the front wheels facing straight ahead.
(b) Using a torx® socket wrench (T30), loosen the 2 torx® screws until the groove along the screw circumference catches on the screw case.
(c) Pull out the horn button assy from the steering wheel assy and support the horn button assy with one hand as shown in the illustration.

NOTICE:

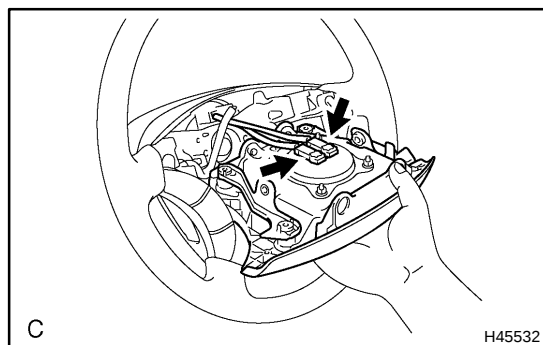
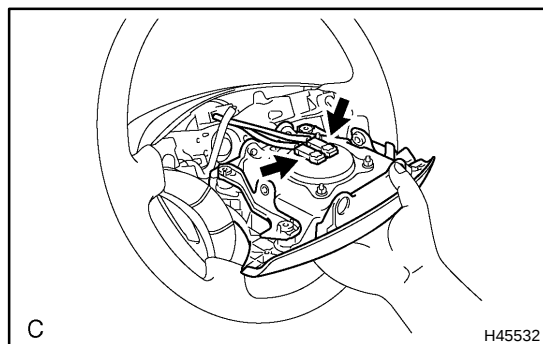
When removing the horn button assy, do not pull the airbag wire harness.

- (d) Disconnect the horn connector.
(e) Disconnect the connector from the horn button assy.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (f) Remove the horn button assy.



6. INSTALL HORN BUTTON ASSY

- (a) Support the horn button assy with one hand as shown in the illustration.
(b) Connect the connector to the horn button assy.

NOTICE:

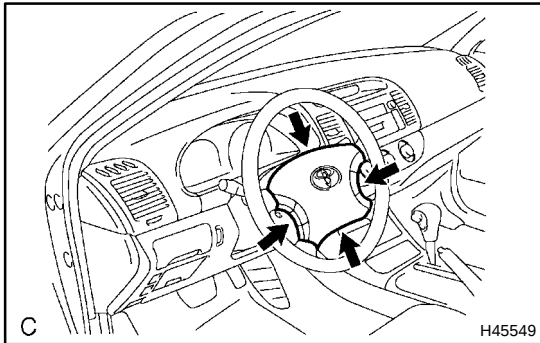
When handling the airbag connector, take care not to damage the airbag wire harness.

- (c) Connect the horn connector.

- (d) Confirm that the circumference groove of the torx[®] screw fits in the screw case, and place the horn button assy onto the steering wheel assy.
- (e) Using a torx[®] socket wrench (T30), tighten the 2 torx[®] screws.

Torque: 8.8 N·m (90 kgf·cm, 78 in·lbf)

7. CONNECT BATTERY NEGATIVE TERMINAL



8. INSPECT HORN BUTTON ASSY

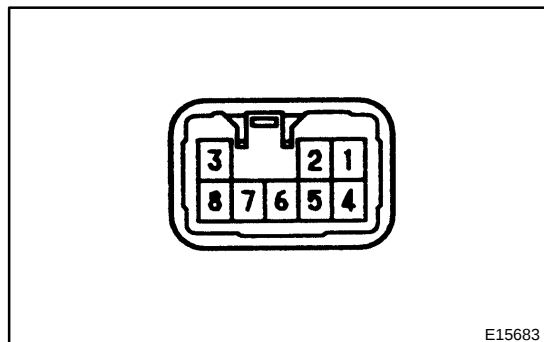
- (a) With the horn button assy installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the horn button assy with a new one:
Cuts, minute cracks or marked discoloration on the horn button assy top surface or in the grooved portion.
- (b) Make sure that the horn sounds.

HINT:

If the horn does not sound, inspect the horn system (see page 69-3).

9. INSPECT SRS WARNING LIGHT (See page 05-1456)

ON-VEHICLE INSPECTION



1. INSPECT TURN SIGNAL FLASHER CIRCUIT

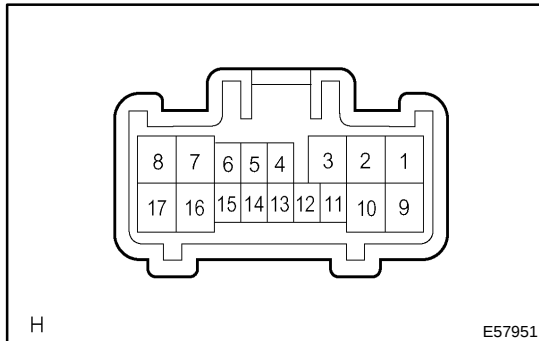
- (a) Measure voltage between terminal as shown in the chart below.

Tester connection	Condition	Specified condition
7 – Ground	Constant	Continuity
1 – Ground	Turn igniton switch ON	Battery positive voltage
1 – Ground	Turn igniton switch OFF	No voltage
4 – Ground	Constant	Battery positive voltage

- (b) Connect the connector to turn signal flasher and inspect the wire harness side connector from the back side as shown in the chart below.

Tester connection	Condition	Specified condition
2 – Ground	Hazard switch OFF → ON	0V → 10 – 14 V (60 to 120 time per minutes)
2 – Ground	Turn signal switch (right turn) OFF → ON	0V → 10 – 14 V (60 to 120 time per minutes)
3 – Ground	Hazard switch OFF → ON	0V → 10 – 14 V (60 to 120 time per minutes)
3 – Ground	Turn signal switch (left turn) OFF → ON	0V → 10 – 14 V (60 to 120 time per minutes)
5 – Ground	Turn signal switch (left turn) OFF → ON	10 – 14 V → 0 V
6 – Ground	Turn signal switch (right turn) OFF → ON	10 – 14 V → 0 V
8 – Ground	Hazard switch OFF → ON	10 – 14 V → 0 V

INSPECTION



1. HEADLAMP DIMMER SWITCH ASSY

(a) Inspect light control switch continuity.

- (1) Check that there is continuity between terminals at each switch position as shown in the chart.

Switch operation	Tester connection	Specified condition
OFF	–	No continuity
TAIL	14 – 16	Continuity
HEAD	13 – 16 – 14	Continuity

(b) Inspect headlamp dimmer switch continuity.

- (1) Check that there is continuity between terminals at each switch position as shown in the chart.

Switch operation	Tester connection	Specified condition
FLASH	7 – 8 – 16	Continuity
LOW BEAM	16 – 17	Continuity
HI BEAM	7 – 16	Continuity

(c) Inspect turn signal switch continuity.

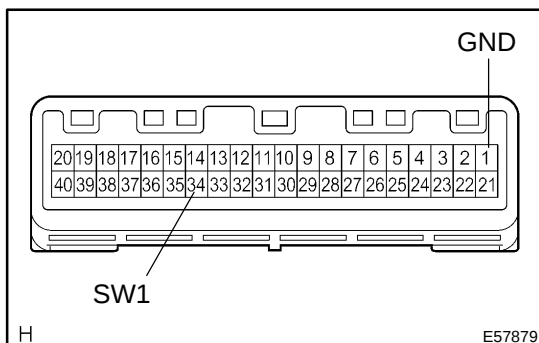
- (1) Check that there is continuity between terminals at each switch position as shown in the chart.

Switch operation	Tester connection	Specified condition
Right turn	2 – 3	Continuity
Neutral	–	No continuity
Left turn	1 – 2	Continuity

(d) Inspect front fog light switch continuity.

- (1) Check that there is continuity between terminals at each switch position as shown in the chart.

Switch operation	Tester connection	Specified condition
OFF	–	No continuity
ON	10 – 11	Continuity

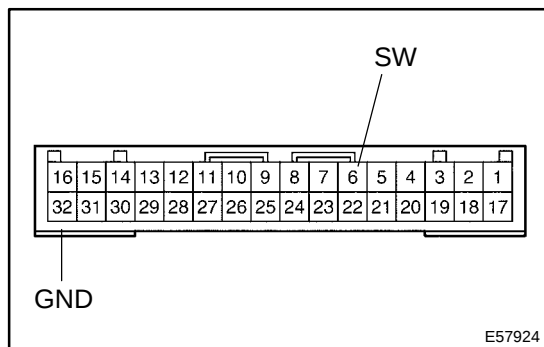


2. HEATER CONTROL HOUSING SUB-ASSY

(a) Auto A/C:

- Inspect hazard warning signal switch.

Switch operation	Tester connection	Specified condition
OFF	1 – 34	No continuity
ON	1 – 34	Continuity

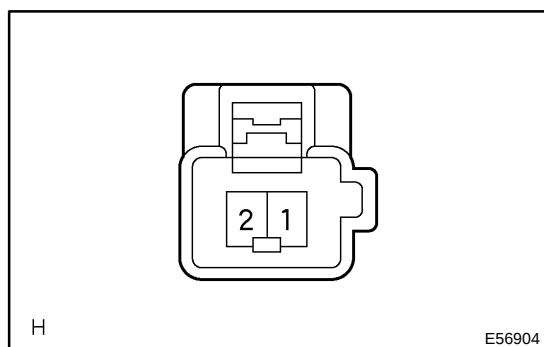


- (b) Manual A/C:
Inspect hazard warning signal switch.

Switch operation	Tester connection	Specified condition
OFF	6 – 32	No continuity
ON	6 – 32	Continuity

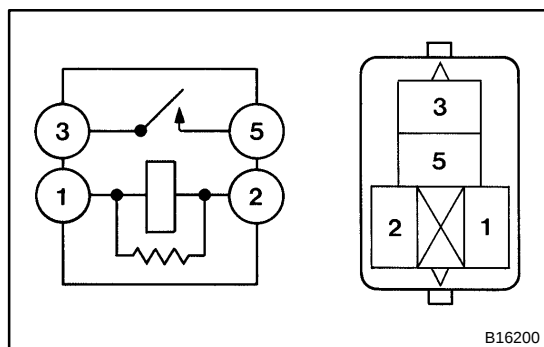
3. BACK UP LAMP SWITCH ASSY

- (a) Inspect back-up lamp switch continuity.
(1) Check that there is continuity between terminals upon switch operation.
Standard:
OFF (When ball is not pressed): No continuity
ON (When ball is pressed): Continuity



4. LUGGAGE COMPARTMENT DOOR LOCK ASSY

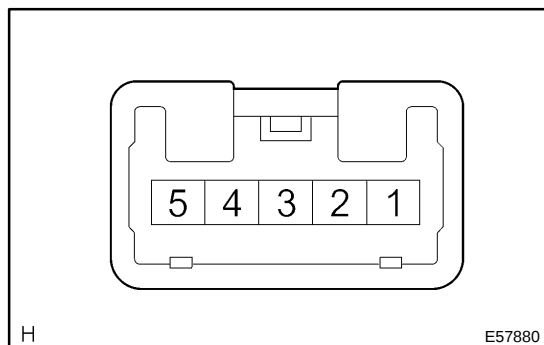
- (a) Inspect luggage compartment door courtesy lamp switch continuity.
(1) Check that there is continuity between terminal 2 and body ground when switch is operated.
Standard:
ON (When shaft is pressed): No continuity
OFF (When shaft is not pressed): Continuity



5. FOG LAMP RELAY

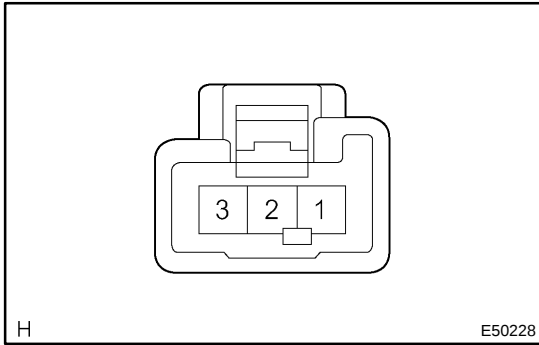
- (a) Inspect relay continuity.

Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2.	3 – 5	Continuity



6. ROOF CONSOLE BOX ASSY

- (a) Inspect map lamp continuity.
(1) Check that there is continuity between terminal 1 and 5 when switch is operated.
Standard:
ON: Continuity
OFF: No continuity



7. ROOM LAMP ASSY NO.1

- (a) Inspect room lamp assy No. 1 continuity.
- (1) Check that there is continuity between terminals at each switch position as shown in the chart.

Standard:

Switch operation	Tester connection	Specified condition
OFF	–	No continuity
DOOR	1 – 2	Continuity
*1 ON	2 – 3	Continuity
*2 ON	1 – 3	Continuity

*1: TMMK Made

*2: TMC Made

8. GLOVE BOX LAMP ASSY

- (a) Inspect glove box lamp assy continuity.
- (1) Check that there is continuity between terminals when switch is operated.

Standard:

ON (When shaft is pressed): No continuity

OFF (When shaft is not pressed): Continuity

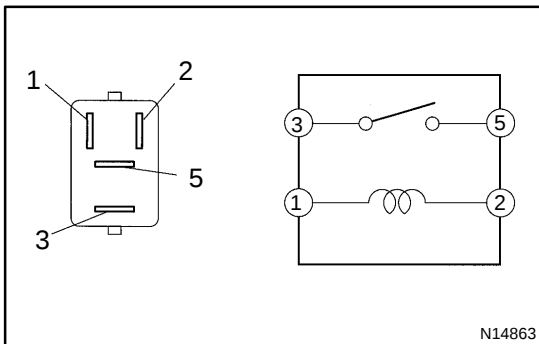
9. LUGGAGE COMPARTMENT LAMP ASSY NO.1

- (a) Inspect luggage compartment lamp assy No. 1.
- (b) Check that there is continuity between terminals when switch is operated.

Standard:

ON: Continuity

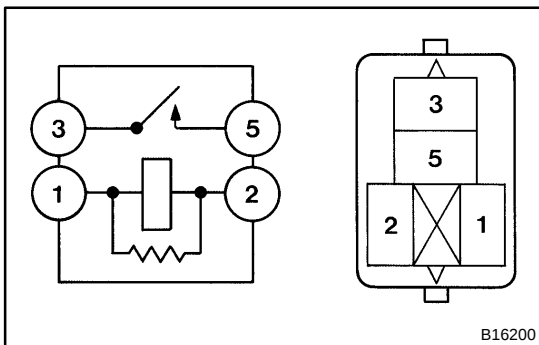
OFF No continuity



10. TAIL LAMP RELAY

- (a) Inspect relay continuity.

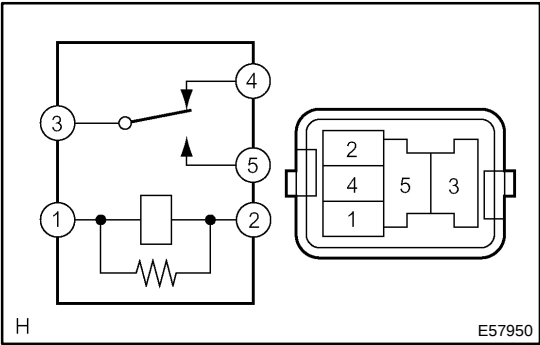
Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminal 1 and 2	3 – 5	Continuity



11. DAY TIME RUNNING LIGHT RELAY NO.2

- (a) Inspect relay continuity.

Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminal 1 and 2	3 – 5	Continuity



12. RUNNING LIGHT RELAY

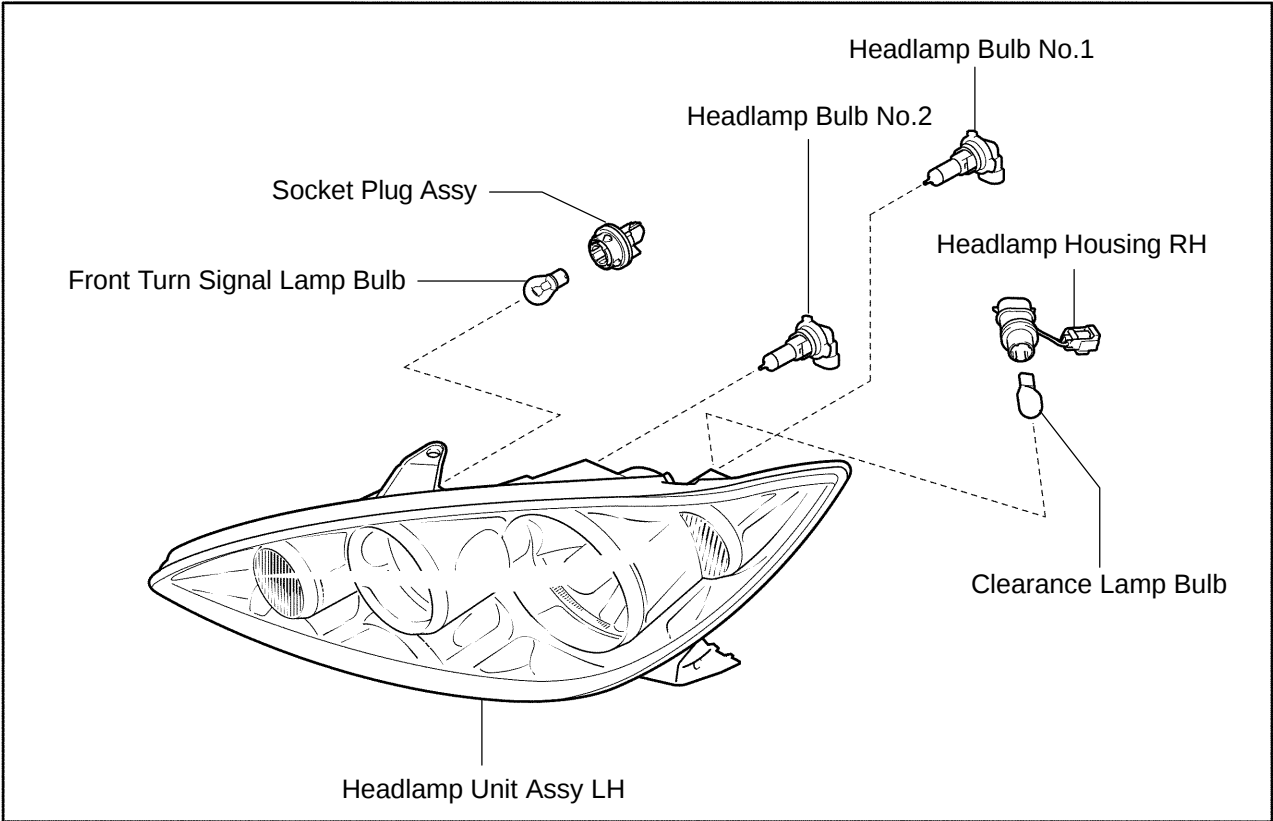
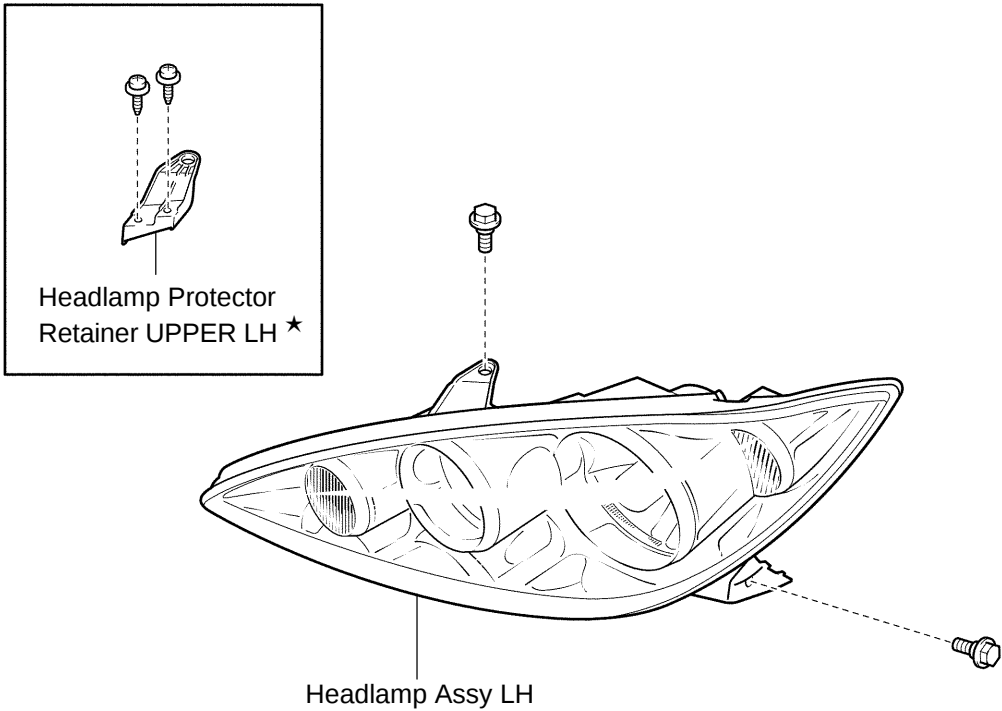
(a) Inspect relay continuity.

Condition	Tester connection	Specified condition
Constant	1 – 3, 2 – 4	Continuity
Apply B+ between terminal 1 and 3	4 – 5	Continuity

HEADLAMP ASSY LH

COMPONENTS

651AL-01



P ★: Supply Parts for Low - Cost Repair

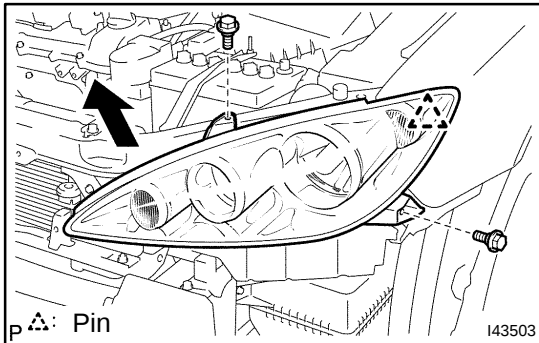
143490

OVERHAUL

HINT:

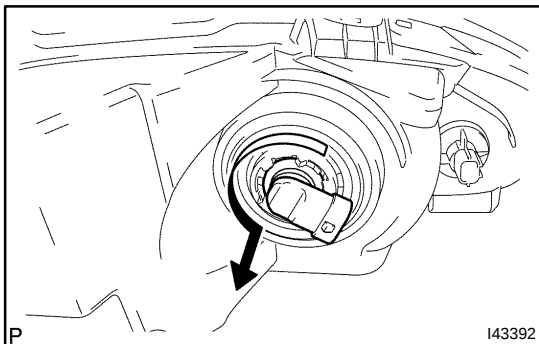
- COMPONENTS: SEE PAGE 65-7.
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- Installation is in the reverse order of removal.

1. REMOVE FRONT BUMPER ASSY (SEE PAGE 76-2)



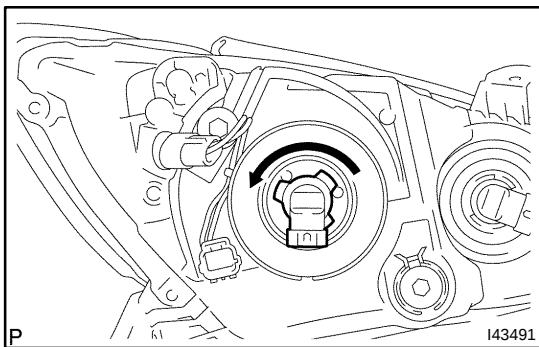
2. REMOVE HEADLAMP ASSY LH

- Remove the 2 bolts and disengage the pin.
- Pull the headlamp assy LH in the direction indicated by the arrow and remove the headlamp assy LH.



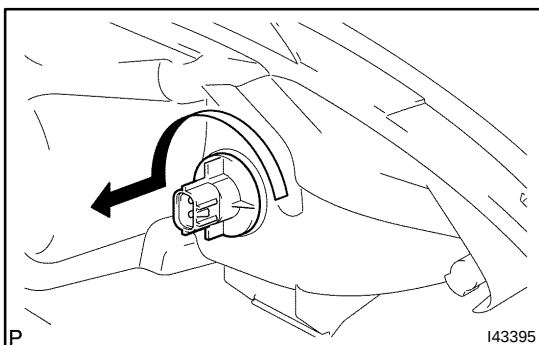
3. REMOVE HEADLAMP, NO.2 BULB

- Turn in the direction indicated by the arrow and remove the headlamp, No.2 bulb.



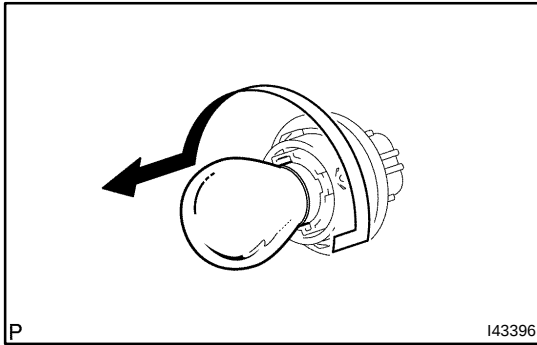
4. REMOVE HEADLAMP, NO.1 BULB

- Turn in the direction indicated by the arrow and remove the headlamp, No.1 bulb.

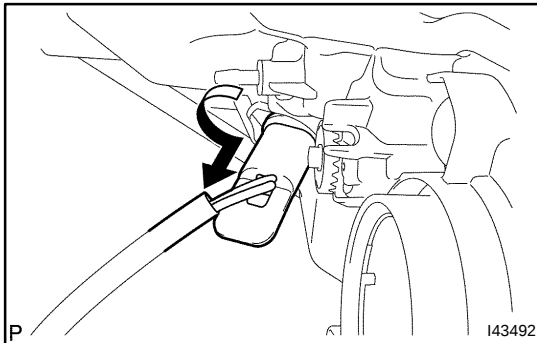


5. REMOVE FRONT TURN SIGNAL LAMP BULB

- Turn in the direction indicated by the arrow and remove the socket plug assy and the front turn signal lamp bulb as a unit.



- (b) Turn in the direction indicated by the arrow and remove the front turn signal lamp bulb.
- (c) Remove the socket plug Assy.



6. REMOVE CLEARANCE LAMP BULB

- (a) Turn in the direction indicated by the arrow and remove the headlamp housing RH and the clearance lamp bulb as a unit.
- (b) Remove the clearance lamp bulb from the headlamp housing RH.

- 7. VEHICLE PREPARATION FOR HEADLAMP AIM ADJUSTMENT (SEE PAGE 65-10)
- 8. PREPARATION FOR HEADLAMP AIMING (Using a screen) (SEE PAGE 65-10)
- 9. HEADLAMP AIMING INSPECTION (SEE PAGE 65-10)
- 10. HEADLAMP AIMING ADJUSTMENT (SEE PAGE 65-10)
- 11. VEHICLE PREPARATION FOR FOG LAMP AIM ADJUSTMENT (SEE PAGE 65-17)
- 12. PREPARATION FOR FOG LAMP AIMING (SEE PAGE 65-17)
- 13. FOG LAMP AIMING INSPECTION (SEE PAGE 65-17)
- 14. FOG LAMP AIMING ADJUSTMENT (SEE PAGE 65-17)

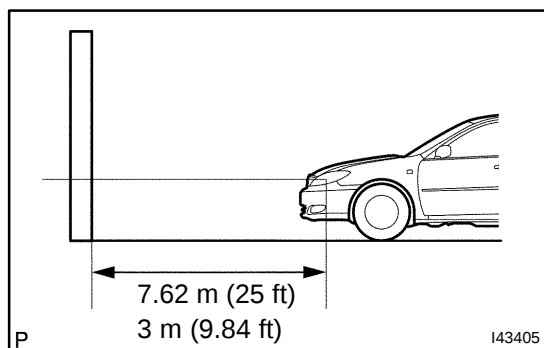
ADJUSTMENT

1. VEHICLE PREPARATION FOR HEADLAMP AIM ADJUSTMENT

- (a) Prepare the vehicle:
- Ensure there is no damage or deformation to the body around the headlamps.
 - Fill the fuel tank.
 - Make sure that the oil is filled to the specified level.
 - Make sure that the coolant is filled to the specified level.
 - Inflate the tires to the appropriate pressure.
 - Place the spare tire, tools, and jack in their original positions.
 - Unload the trunk.
 - Sit a person of average weight (68 kg, 150 lb) in the driver's seat.

2. PREPARATION FOR HEADLAMP AIMING (Using a tester)

- (a) Prepare the vehicle for headlamp aim check.
 (b) Adjust in accordance with headlamp tester instructions.



3. PREPARATION FOR HEADLAMP AIMING (Using a screen)

- (a) Prepare the vehicle according to the following conditions:
- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the headlamps can be observed and above which it cannot.
 - Place the vehicle at a 90° angle to the wall.
 - Create a 7.62 m (25 ft) distance between the vehicle (headlamp bulb center) and the wall.
 - Place the vehicle on a level surface.
 - Bounce the vehicle up and down to settle the suspension.

NOTICE:

A distance of 7.62 m (25 ft) between the vehicle (headlamp bulb center) and the wall is necessary for proper aim adjustment. If unavailable, secure a distance of exactly 3 m (9.84 ft) for check and adjustment. (The target zone will change with the distance so follow the instructions in the illustration.)

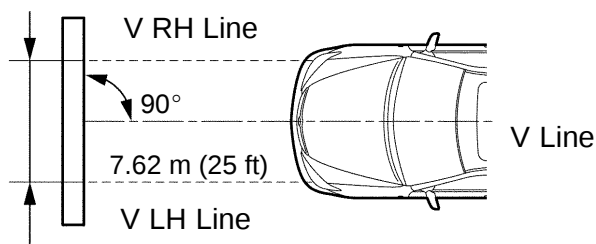
- (b) Prepare a piece of thick white paper (approximately 2 m (6.6 ft) (height) x 4 m (13.1 ft) (width)) to use as a screen.
 (c) Draw a vertical line down the center of screen (V line).

(d) Set the screen as shown in the illustration.

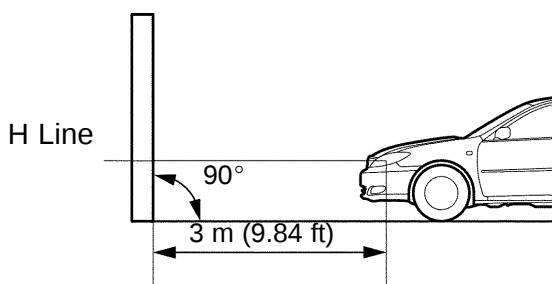
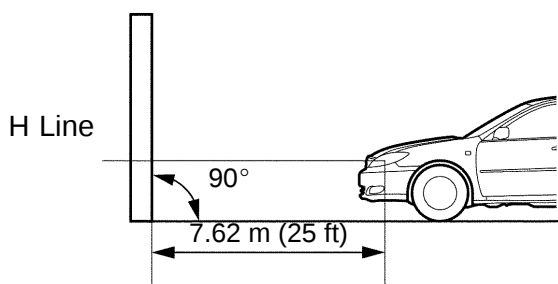
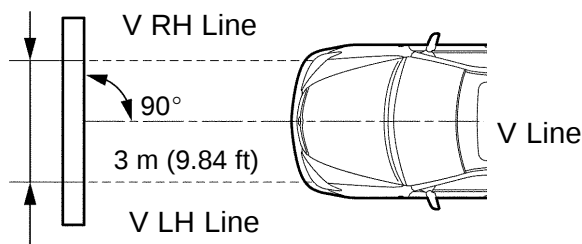
HINT:

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.

Aligning distance is 7.62 m (25 ft):

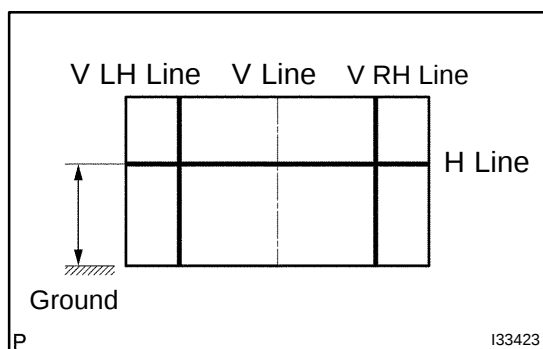


Aligning distance is 3 m (9.84 ft):



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(e) Draw base lines (H line, V LH, V RH lines) on the screen as shown in the illustration.

HINT:

- The base lines differ for "low-beam inspection" and "high-beam inspection".
- Mark the headlamp bulb center marks on the screen. If the center mark cannot be observed on the headlamp, use the center of the headlamp bulb or the manufacturer's name marked on the headlamp as the center mark.

(1) H Line (Headlamp height):

Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the headlamp bulb center marks of the low-beam headlamps.

(2) V LH Line, V RH Line (Center mark position of left-hand (LH) and right-hand (RH) headlamps):

Draw two vertical lines so that they intersect the H line at each center mark (aligned with the center of the low-beam headlamp bulbs).

4. HEADLAMP AIMING INSPECTION

- (a) Cover or disconnect the connector of the headlamp on the opposite side to prevent light from the headlamp not being inspected from affecting headlamp aiming inspection.

NOTICE:

Do not keep the headlamp covered for more than 3 minutes. The headlamp lens is made of synthetic resin, and may easily melt or be damaged due to heat.

HINT:

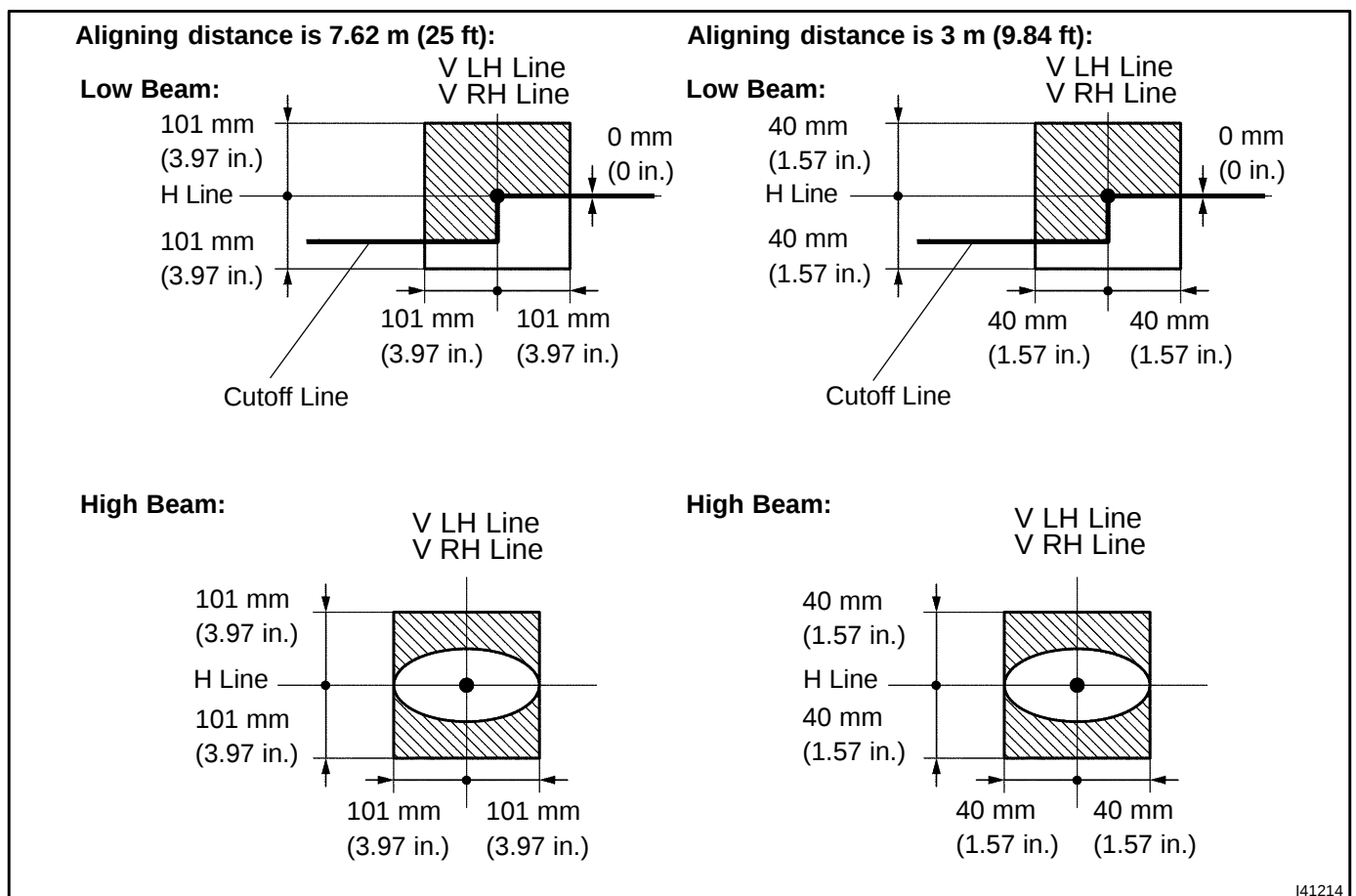
When checking the aim of the high-beam, cover the low-beam or disconnect the connector.

- (b) Start the engine.

NOTICE:

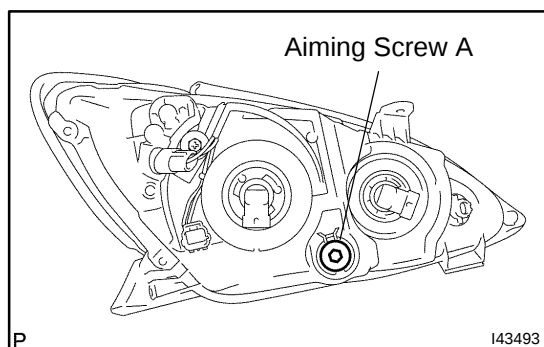
Engine rpm must be 1,500 or more.

- (c) Turn on the headlamp and make sure that the cutoff line falls within the specified area, as shown in the illustration.



HINT:

- Since the low-beam light and the high-beam light are a unit, if the aim on one is correct, the other should also be correct. However, check both beams just to make sure.
- Alignment distance is 7.62 m (25 ft):
The cutoff line is 101 mm (3.97 in.) above and below the H line as well as left and right of the V line with low-beam (SAE J599).
- Alignment distance is 3 m (9.84 ft):
The cutoff line is 40 mm (1.57 in.) above and below the H line as well as left and right of the V line with low-beam (SAE J599).
- Alignment distance is 7.62 m (25 ft):
The cutoff line is 101 mm (3.97 in.) above and below the H line as well as left and right of the V line with high-beam (SAE J599).
- Alignment distance is 3 m (9.84 ft):
The cutoff line is 40 mm (1.57 in.) above and below the H line as well as left and right of the V line with high-beam (SAE J599).
- Alignment distance is 7.62 m (25 ft):
The cutoff line is 53 mm (2.08 in.) below the H line with low-beam.
- Alignment distance is 3 m (9.84 ft):
The cutoff line is 21 mm (0.82 in.) below the H line with low-beam.

**5. HEADLAMP AIMING ADJUSTMENT****(a) Adjust the aim vertically:**

Adjust the headlamp aim into the specified range by turning aiming screw A with a screwdriver.

NOTICE:

The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.

HINT:

- Perform low-beam aim adjustment.
- The headlamp aim moves up when turning the aiming screw clockwise, and moves down when turning the aiming screw counterclockwise.

REPAIR

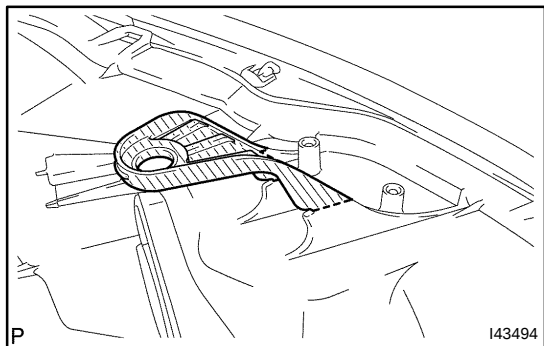
HINT:

- COMPONENTS: SEE PAGE 65-7.
 - Use the same procedures for the RH side and LH side.
 - The procedures listed below are for the LH side.
 - If the area where the headlamp unit LH is installed is broken, the repairs listed below can be performed inexpensively through the use of a repair use bracket. This may only be done if the headlamp assy LH itself is not damaged.
1. REMOVE FRONT BUMPER ASSY (SEE PAGE 76-2)
 2. REMOVE HEADLAMP ASSY LH (SEE PAGE 65-8)

3. INSTALL HEADLAMP PROTECTOR RETAINER UPPER LH

HINT:

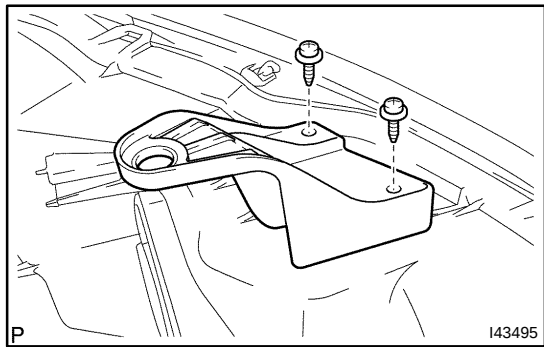
- If the installation area of the headlamp assy LH is damaged, use the supply bracket for low-cost repair.
- Ensure that the headlamp assy LH is not damaged.



- (a) Cut off the part shaded in the illustration and sand smooth with sandpaper.

NOTICE:

After cutting off the part, place the headlamp protector retainer UPPER LH against the bosses and gradually file away until installation is possible.



- (b) Install the headlamp protector retainer UPPER LH with the 2 screws.

4. VEHICLE PREPARATION FOR HEADLAMP AIM ADJUSTMENT (SEE PAGE 65-10)
5. PREPARATION FOR HEADLAMP AIMING (Using a screen) (SEE PAGE 65-10)
6. HEADLAMP AIMING INSPECTION (SEE PAGE 65-10)
7. HEADLAMP AIMING ADJUSTMENT (SEE PAGE 65-10)
8. VEHICLE PREPARATION FOR FOG LAMP AIM ADJUSTMENT (SEE PAGE 65-17)

- 9. PREPARATION FOR FOG LAMP AIMING (SEE PAGE 65-17)
- 10. FOG LAMP AIMING INSPECTION (SEE PAGE 65-17)
- 11. FOG LAMP AIMING ADJUSTMENT (SEE PAGE 65-17)

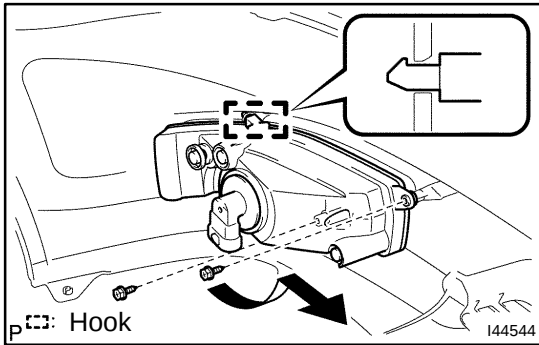
FOG LAMP ASSY LH

OVERHAUL

HINT:

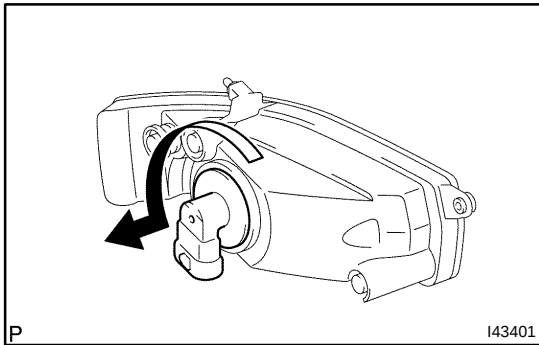
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- Installation is in the reverse order of removal.

1. REMOVE FRONT BUMPER ASSY (SEE PAGE 76-2)



2. REMOVE FOG LAMP ASSY LH

- Remove the 2 screws.
- Move the fog lamp assy LH in the direction indicated by the arrow, disengage the hook, and remove the fog lamp assy LH.



3. REMOVE FOG LAMP BULB

- Turn the fog lamp bulb in the direction as shown in the illustration and remove the fog lamp bulb.

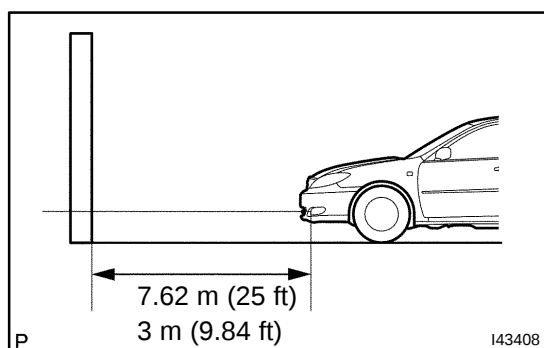
- VEHICLE PREPARATION FOR FOG LAMP AIM ADJUSTMENT (SEE PAGE 65-17)
- PREPARATION FOR FOG LAMP AIMING (SEE PAGE 65-17)
- FOG LAMP AIMING INSPECTION (SEE PAGE 65-17)
- FOG LAMP AIMING ADJUSTMENT (SEE PAGE 65-17)

ADJUSTMENT

1. VEHICLE PREPARATION FOR FOG LAMP AIM ADJUSTMENT

(a) Prepare the vehicle:

- Ensure there is no damage or deformation to the body around the fog lamps.
- Fill the fuel tank.
- Make sure that the oil is filled to the specified level.
- Make sure that the coolant is filled to the specified level.
- Inflate the tires to the appropriate pressure.
- Place the spare tire, tools, and jack in their original positions.
- Unload the trunk.
- Sit a person of average weight (68 kg, 150 lb) in the driver's seat.



2. PREPARATION FOR FOG LAMP AIMING

(a) Prepare the vehicle according to the following conditions:

- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the fog lamps can be observed and above which it cannot.
- Place the vehicle at a 90° angle to the wall.
- Create a 7.62 m (25 ft) distance between the vehicle (fog lamp bulb center) and the wall.
- Place the vehicle on a level surface.
- Bounce the vehicle up and down to settle the suspension.

NOTICE:

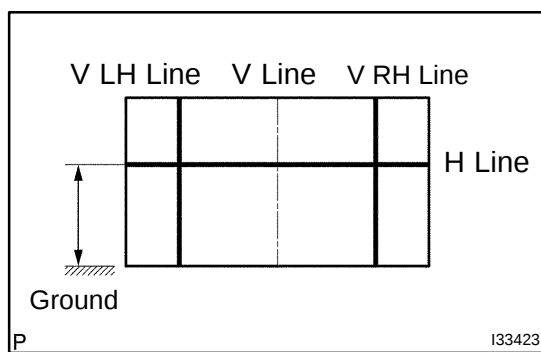
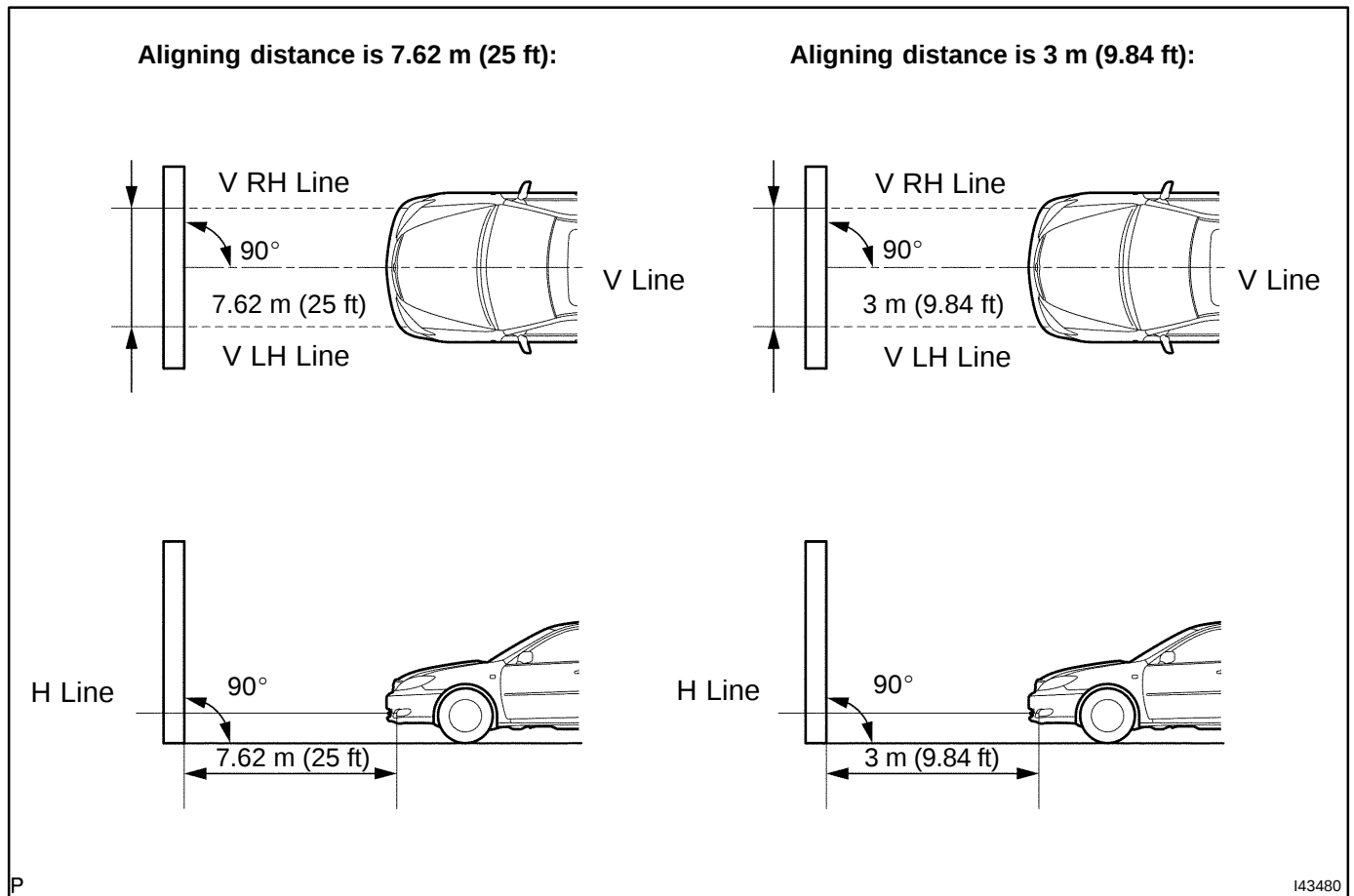
A distance of 7.62 m (25 ft) between the vehicle (fog lamp bulb center) and the wall is necessary for proper aim adjustment. If unavailable, secure a distance of exactly 3 m (9.84 ft) for check and adjustment. (The target zone will change with the distance, so follow the instructions in the illustration.)

- Prepare a piece of thick white paper (approximately 2 m (6.6 ft) (height) x 4 m (13.1 ft) (width)) to use as a screen.
- Draw a vertical line down the center of screen (V line).

(d) Set the screen as shown in the illustration.

HINT:

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.



(e) Draw base lines (H line, V LH, V RH lines) on the screen as shown in the illustration.

HINT:

Mark the fog lamp bulb center marks on the screen. If the center mark cannot be observed on the fog lamp, use the center of the fog lamp bulb or the manufacturer's name marked on the fog lamp as the center mark.

(1) H Line (Fog lamp height):

Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the fog lamp bulb center marks of the low-beam fog lamps.

(2) V LH Line, V RH Line (Center mark position of left-hand (LH) and right-hand (RH) fog lamps):

Draw two vertical lines so that they intersect the H line at each center mark.

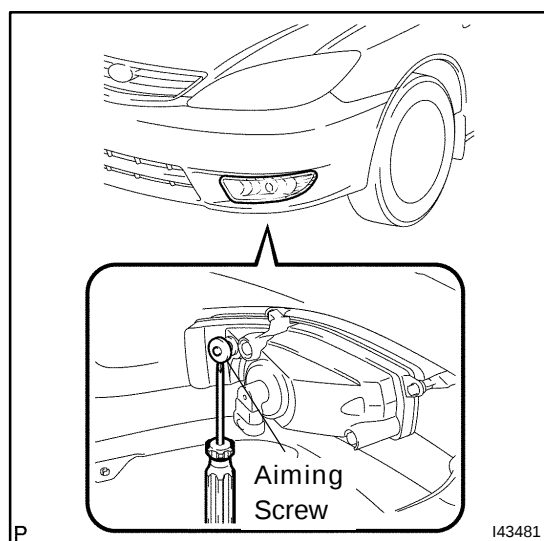
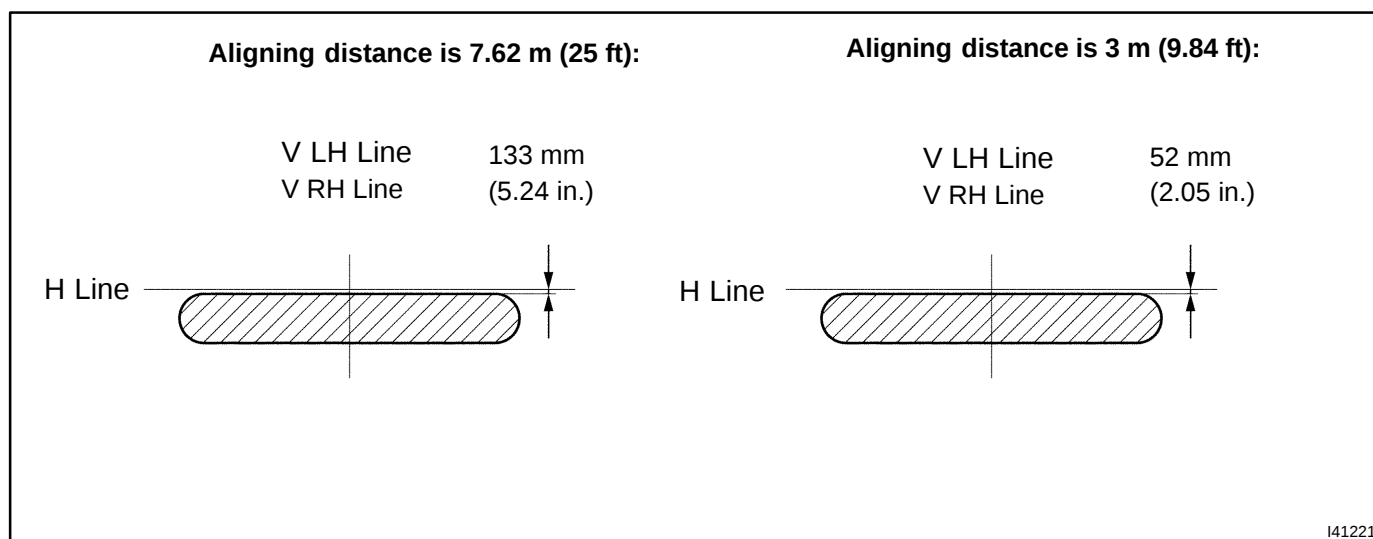
3. FOG LAMP AIMING INSPECTION

- (a) Cover or disconnect the connector of the fog lamp on the opposite side to prevent light from the fog lamp not being inspected from affecting fog lamp aiming inspection.
- (b) Start the engine.

NOTICE:

Engine rpm must be 1,500 or more.

- (c) Turn on the fog lamp and make sure that the cutoff line falls within the specified area, as shown in the illustration.



4. FOG LAMP AIMING ADJUSTMENT

- (a) Adjust the fog lamp aim into the specified range by turning aiming screw with a screwdriver.

NOTICE:

The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.

REAR COMBINATION LAMP ASSY LH

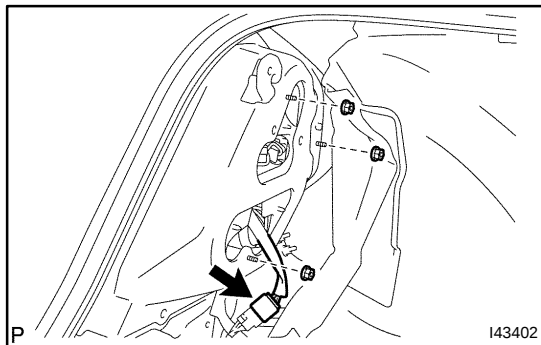
OVERHAUL

651AR-01

HINT:

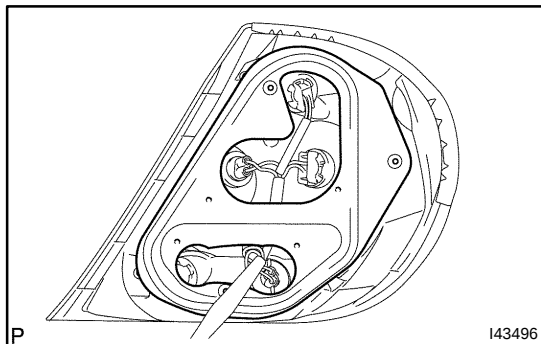
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- Installation is in the reverse order of removal.

- 1. REMOVE LUGGAGE COMPARTMENT TRIM HOOK NO.1 (SEE PAGE 76-8)**
- 2. REMOVE REAR FLOOR FINISH PLATE (SEE PAGE 76-8)**

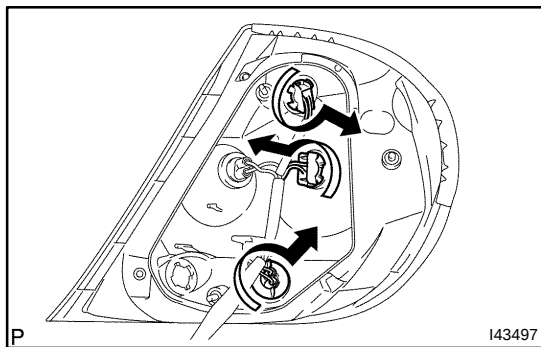


3. REMOVE REAR COMBINATION LAMP ASSY LH

- (a) Disconnect the connector.
- (b) Remove the 3 nuts and the rear combination lamp assy LH.

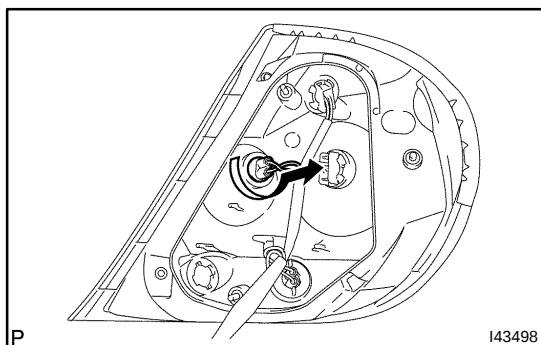


- (c) Remove the rear combination lamp gasket RH.



4. REMOVE REAR COMBINATION LAMP BULB

- (a) Turn in the direction indicated by the arrow and remove the 3 rear combination lamp socket & wire sub-assy RHs and the 3 rear combination lamp bulbs as a unit.
- (b) Remove the 3 rear combination lamp bulbs from the 3 rear combination lamp socket & wire sub-assy RHs.



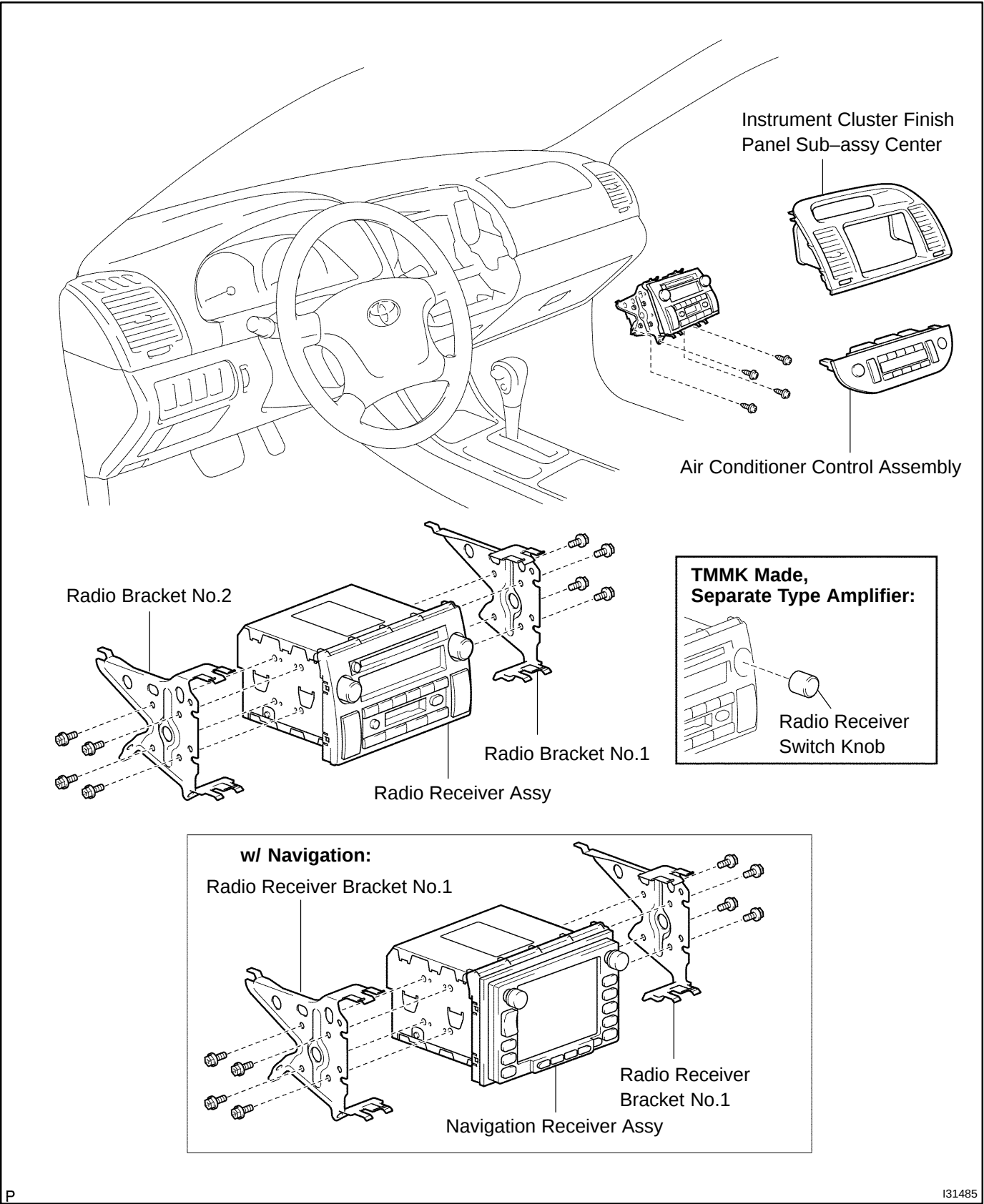
5. REMOVE REAR COMBINATION LAMP BULB

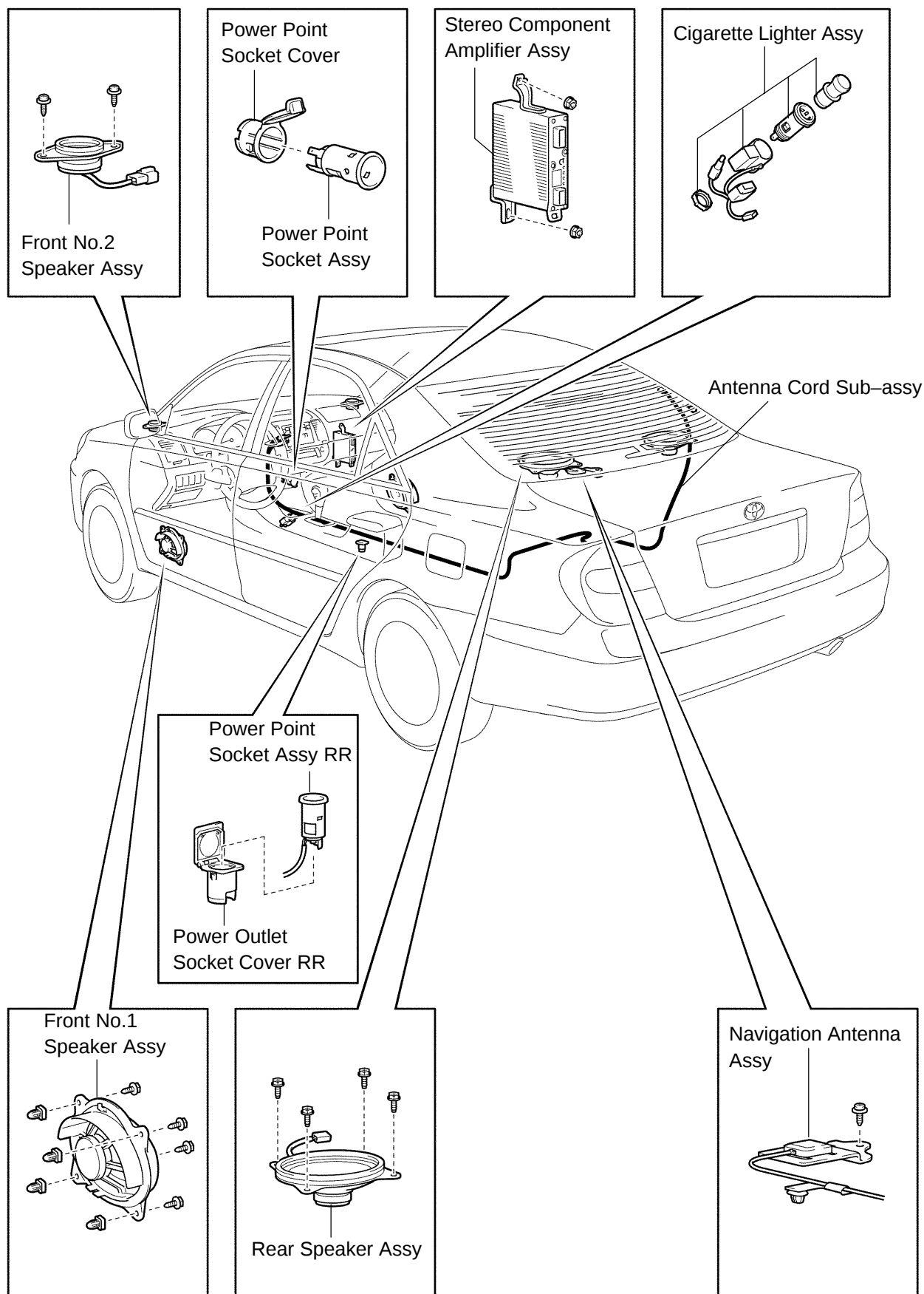
- (a) Turn in the direction indicated by the arrow and remove the rear combination lamp socket & wire sub-assy RH and the rear combination lamp bulb as a unit.
- (b) Remove the rear combination lamp bulb from the rear combination lamp socket & wire sub-assy RH.

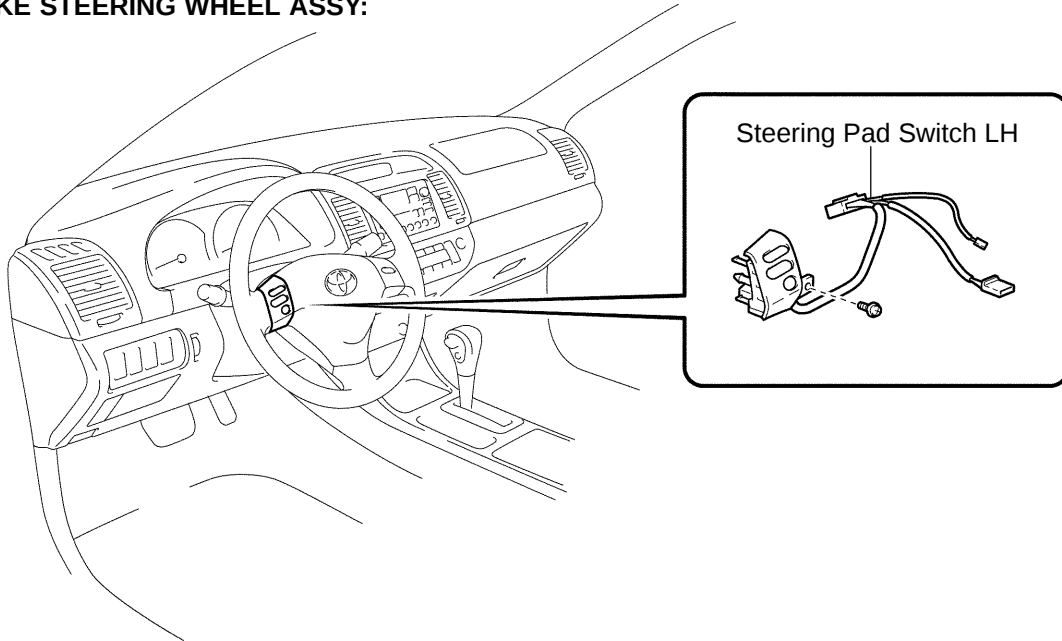
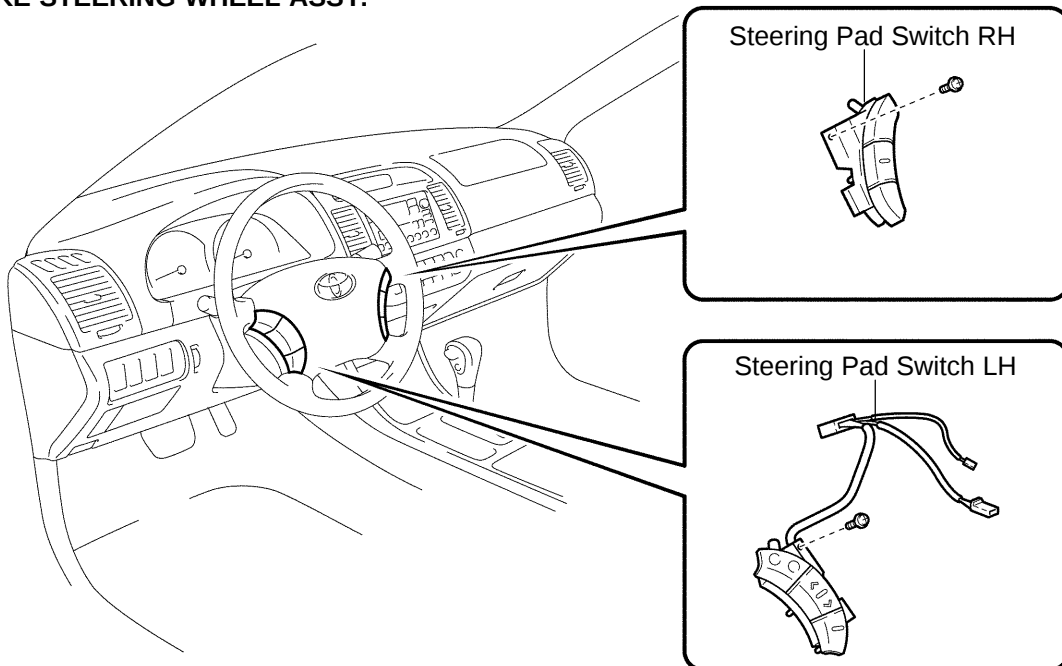
AUDIO & VISUAL SYSTEM

LOCATION

671DS-01





w/ 3 SPOKE STEERING WHEEL ASSY:**w/ 4 SPOKE STEERING WHEEL ASSY:**

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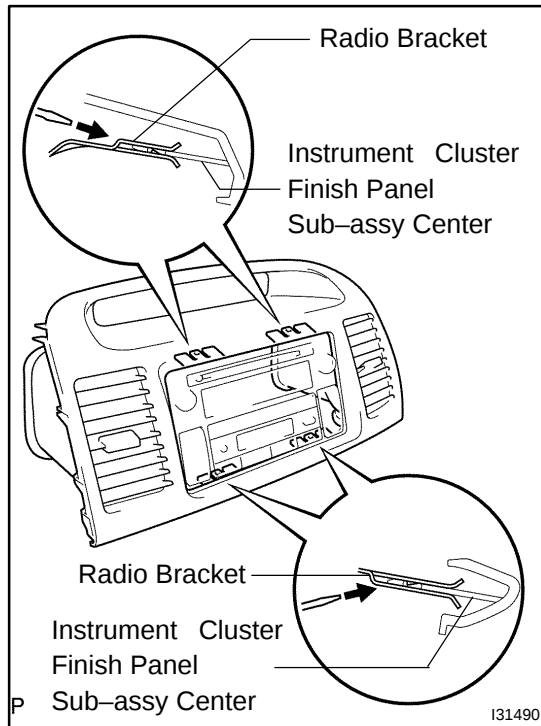
RADIO RECEIVER ASSY REPLACEMENT

6708W-03

HINT:

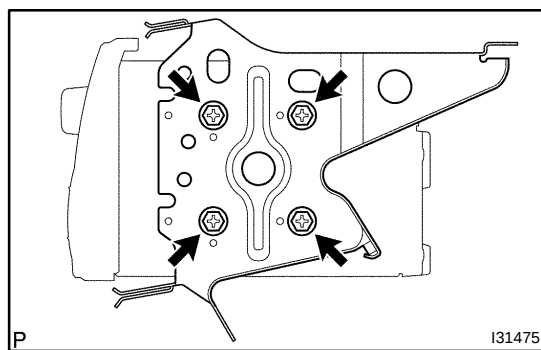
COMPONENTS: See page 67-1

1. REMOVE AIR CONDITIONER CONTROL ASSEMBLY (See page 71-16)
2. REMOVE INSTRUMENT CLUSTER FINISH PANEL SUB-ASSY CENTER (See page 71-16)



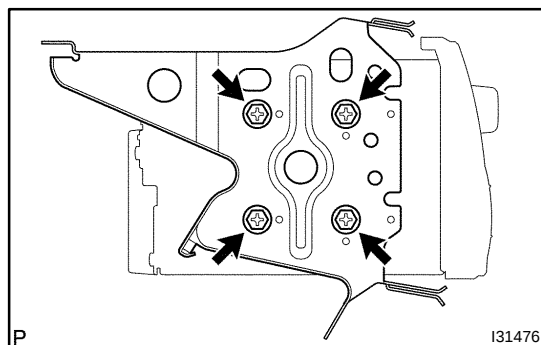
3. REMOVE RADIO RECEIVER ASSY

- (a) Insert a screwdriver at indicated point and remove the radio receiver assy from instrument cluster finish panel sub-assy center.



4. REMOVE RADIO BRACKET NO.1

- (a) Remove the 4 screws and radio bracket No.1.



5. REMOVE RADIO BRACKET NO.2

- (a) Remove the 4 screws and radio bracket No.2.

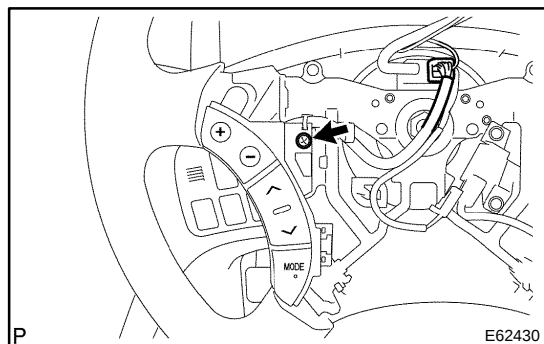
STEERING PAD SWITCH LH

REPLACEMENT

671DT-01

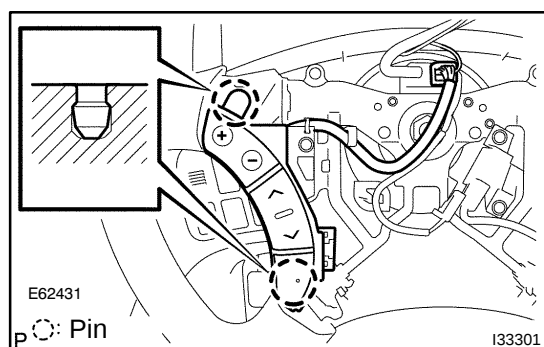
HINT:

- COMPONENTS: SEE PAGE 67-1.
 - Installation is in the reverse order of removal.
1. **PRECAUTION (SEE PAGE 60-1)**
 2. **DISCONNECT BATTERY NEGATIVE TERMINAL (SEE PAGE 60-1)**
 3. **REMOVE STEERING WHEEL COVER LOWER NO.2**
TMC MADE (SEE PAGE 50-9)
TMMK MADE (SEE PAGE 50-21)
 4. **REMOVE STEERING WHEEL COVER LOWER NO.3**
TMC MADE (SEE PAGE 50-9)
TMMK MADE (SEE PAGE 50-21)
 5. **REMOVE HORN BUTTON ASSY (SEE PAGE 60-25)**

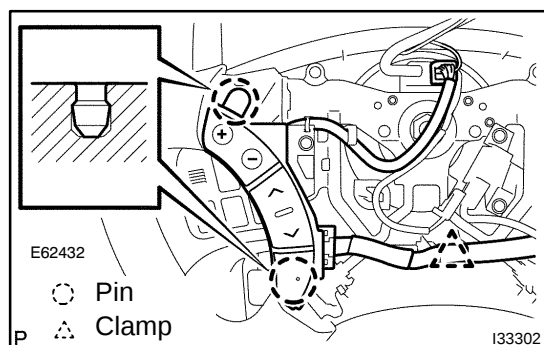


6. REMOVE STEERING PAD SWITCH LH (4 SPOKE STEERING WHEEL ASSY)

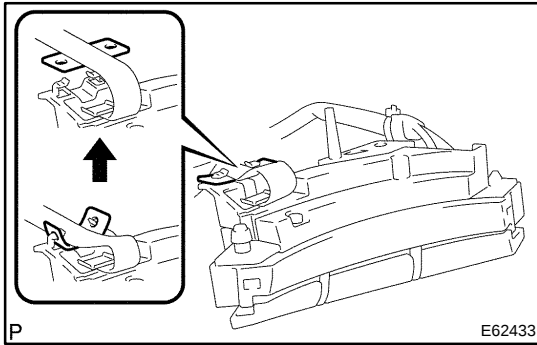
- (a) Disconnect the connector.
- (b) Disconnect the connector of cruise control main switch.
- (c) Remove the screw.



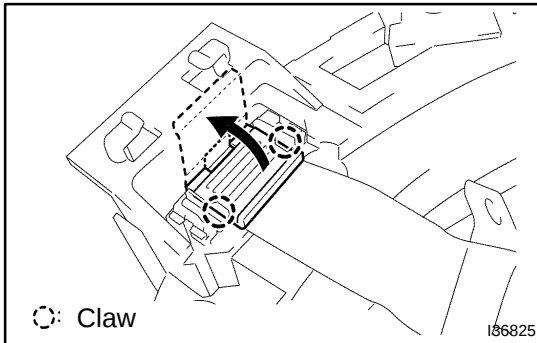
- (d) w/o steering pad switch RH:
Release the 2 pins and remove the steering pad switch LH.



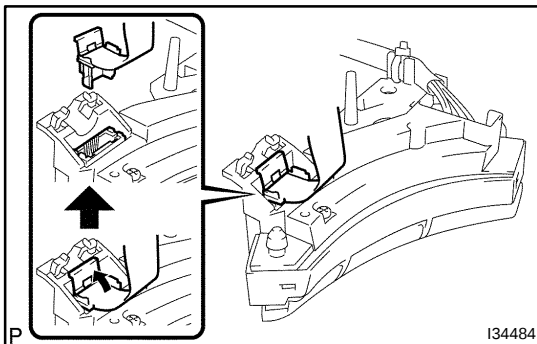
- (e) w/ steering pad switch RH:
Remove the clamp.
- (f) w/ steering pad switch RH:
Release the 2 pins and release the steering pad switch LH from steering wheel.



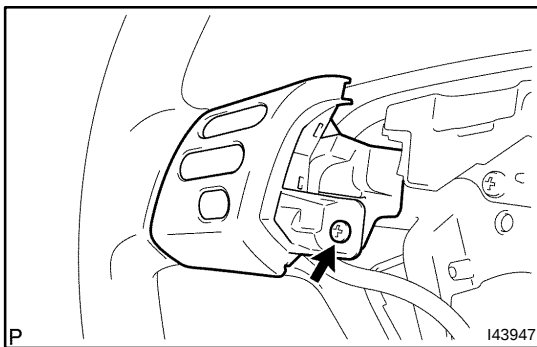
- (g) w/ steering pad switch RH:
Release the tab of steering pad switch cable from steering pad switch LH as shown in the illustration.



- (h) w/ steering pad switch RH:
Disengage the 2 claws as shown in the illustration and open the latch on the top of the connector.

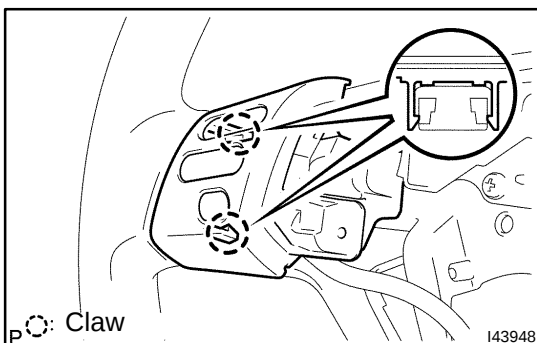


- (i) w/ steering pad switch RH:
Pull out the connector while pinching the latch with fingers and disconnect the steering pad switch cable from the steering pad switch LH.



7. REMOVE STEERING PAD SWITCH LH (3 SPOKE STEERING WHEEL ASSY)

- (a) Disconnect the connector.
(b) Remove the screw.



- (c) Disengage the 2 claws.
(d) Remove the steering pad switch LH.

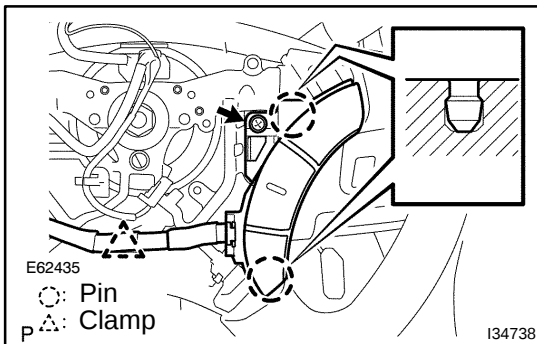
8. INSTALL HORN BUTTON ASSY (SEE PAGE [60-25](#))
9. CONNECT BATTERY NEGATIVE TERMINAL
10. INSPECT SRS WARNING LIGHT (SEE PAGE [60-17](#))

STEERING PAD SWITCH RH REPLACEMENT

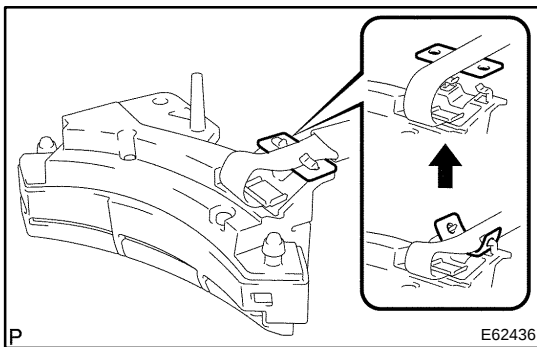
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HINT:

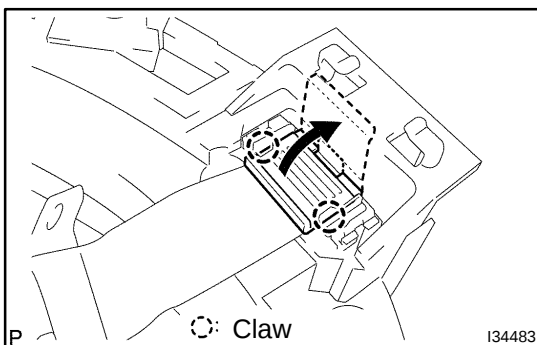
- COMPONENTS: SEE PAGE 67-1.
 - Installation is in the reverse order of removal.
1. **PRECAUTION (SEE PAGE 60-1)**
 2. **DISCONNECT BATTERY NEGATIVE TERMINAL (SEE PAGE 60-1)**
 3. **REMOVE STEERING WHEEL COVER LOWER NO.2**
TMC MADE (SEE PAGE 50-9)
TMMK MADE (SEE PAGE 50-21)
 4. **REMOVE STEERING WHEEL COVER LOWER NO.3**
TMC MADE (SEE PAGE 50-9)
TMMK MADE (SEE PAGE 50-21)
 5. **REMOVE HORN BUTTON ASSY (SEE PAGE 60-25)**

**6. REMOVE STEERING PAD SWITCH RH**

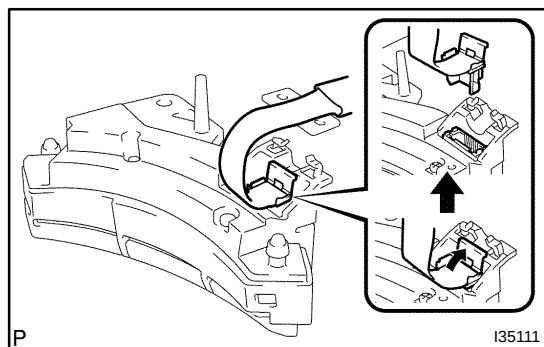
- (a) Remove the screw.
- (b) Remove the clamp.
- (c) Disengage the 2 pins and release the steering pad switch RH from the steering wheel.



- (d) Release the tab of steering pad switch cable from the steering pad switch RH as shown in the illustration.



- (e) Disengage the 2 claws as shown in the illustration and open the latch on the top of the connector.

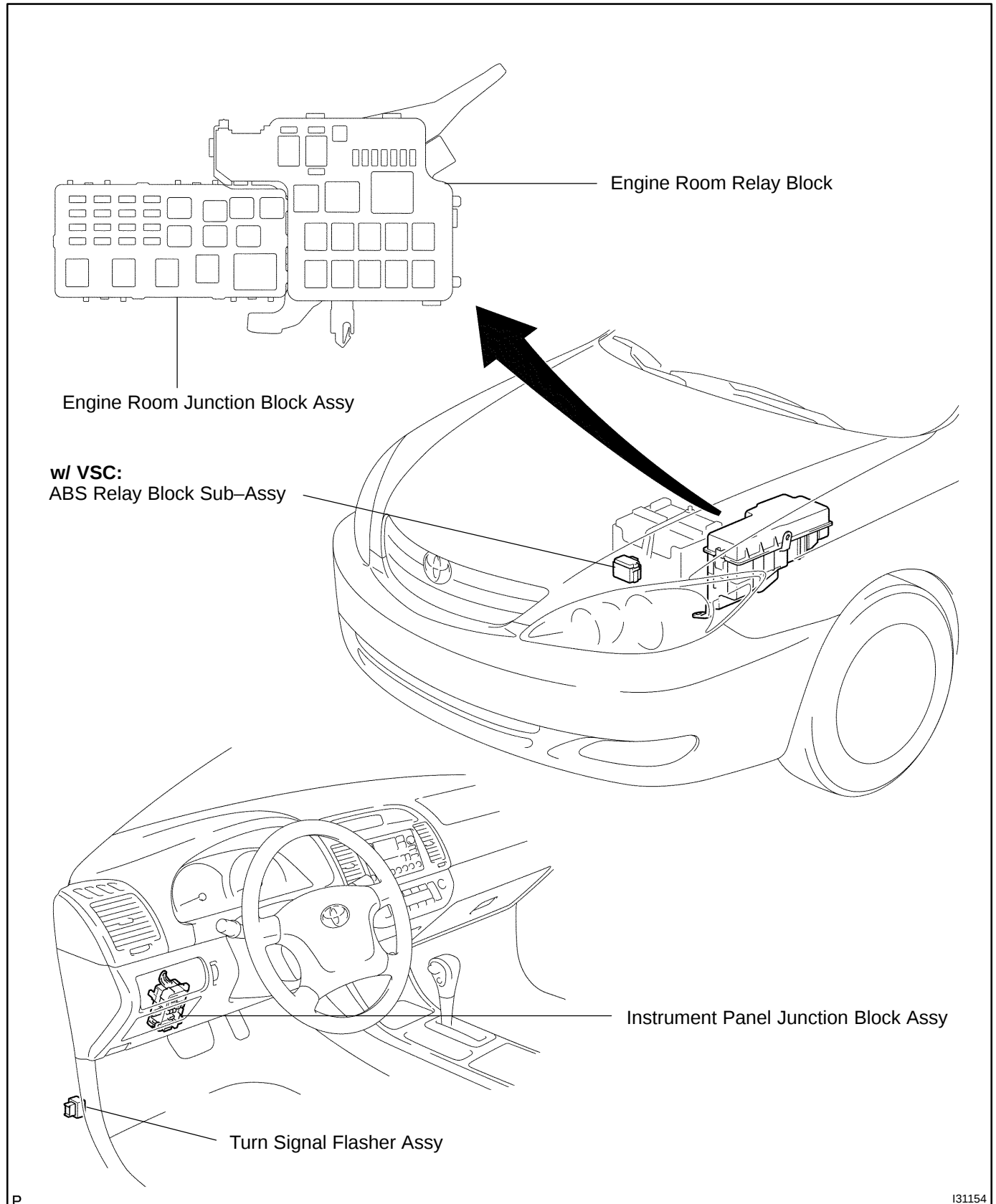


- (f) Pull out the connector while pinching the latch with fingers and disconnect the steering pad switch cable from the steering pad switch RH.

7. **INSTALL HORN BUTTON ASSY (SEE PAGE 60-25)**
8. **CONNECT BATTERY NEGATIVE TERMINAL**
9. **INSPECT SRS WARNING LIGHT (SEE PAGE 60-17)**

POWER SOURCE LOCATION

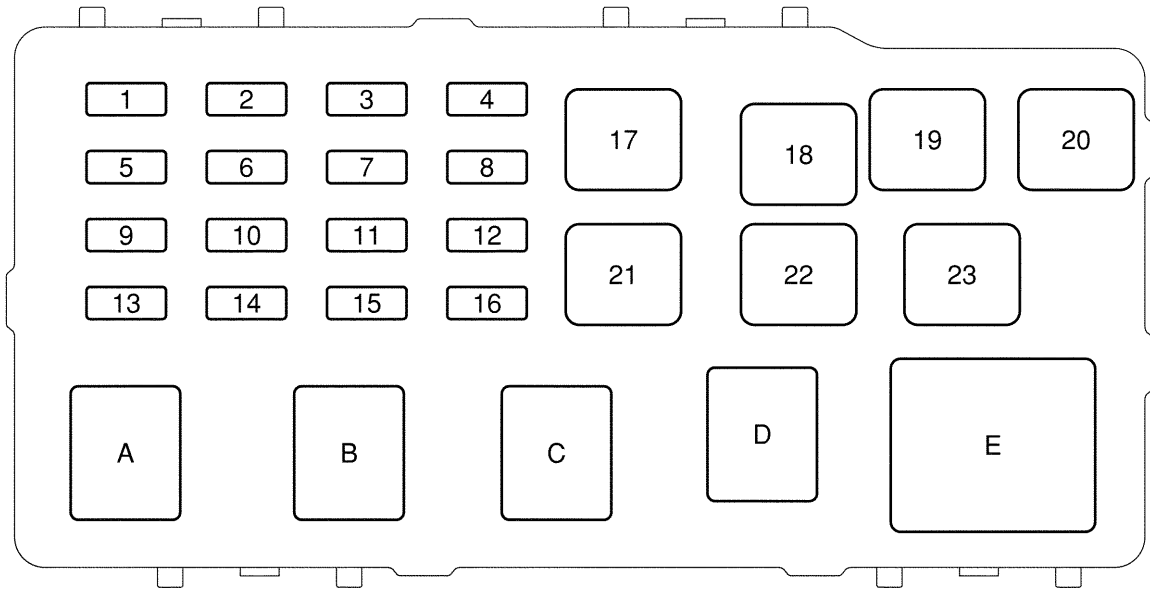
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Engine Room Junction Block Assy:

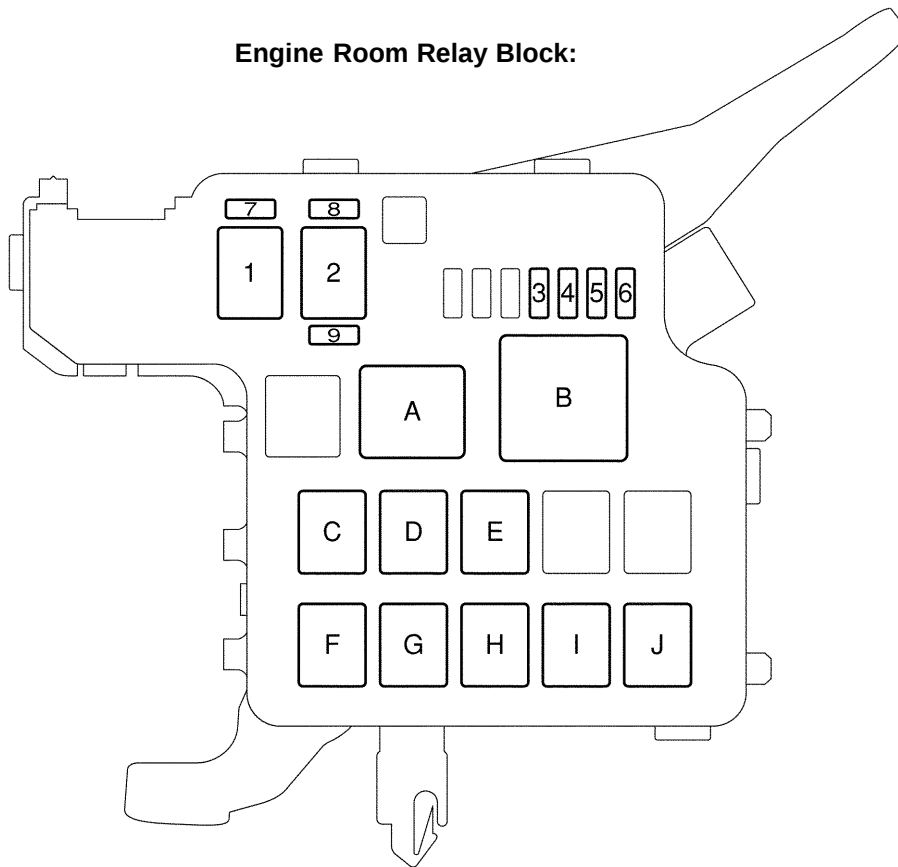


RELAY:

- A, EFI
- B, HORN
- C, C/ OPN
- D, FAN No.1
- E, HEAD

FUSE:

1, A/ F	25 A	14, D.C.C	30 A
2, DOOR 1	25 A	15, IG 2	10 A
3, –		16, ST	5 A
4, AM 2	30 A	17, ADJ PDL	30 A
5, –		18, CDS	30 A
6, EFI	20 A	19, ABS No.2	40 A
7, ALT-S	5 A	20, MAIN	40 A
8, HEAD LH UPR	10 A	21, ABS No.3	30 A
9, ETCS	10 A	22, HTR	50 A
10, HORN	10 A	23, RDI	30 A
11, IGN	15 A		
12, HEAD RH UPR	10 A		
13, HAZ	15 A		

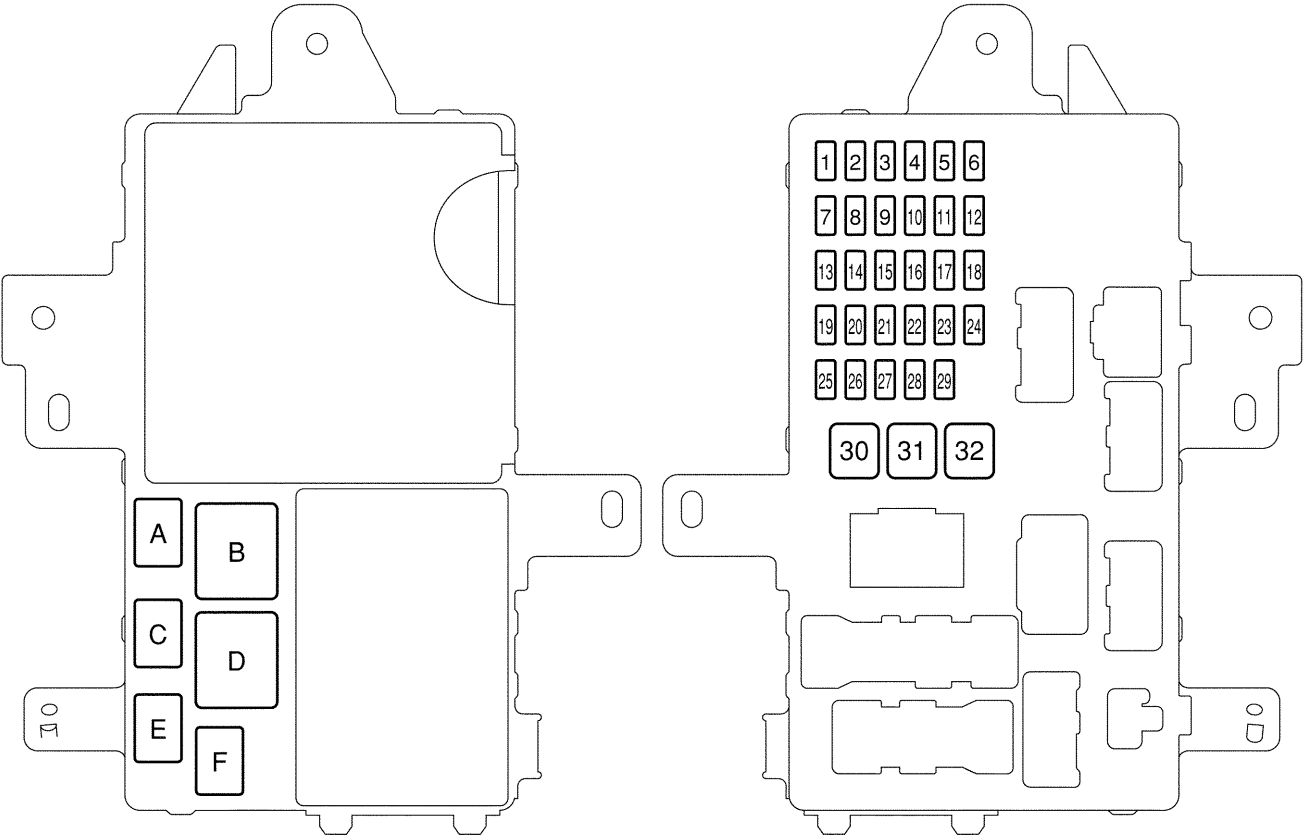
Engine Room Relay Block:**RELAY:**

A, ST	H, FAN No.3
B, HTR	I, ADJ PDL
C, FAN No.2	J, DRL No.4
D, DRL No.3	
E, DRL No.2	
F, A/ F HTR (1MZ)	
G, MG CLT	

FUSE:

1, ABS No.1	50 A
2, ALT	120 A (2AZ)
	120 A (1MZ)
3, A/C	10 A
4, DRL	5 A
5, HEAD RH LWR	15 A
6, HEAD LH LWR	15 A
7, SPARE	5 A
8, SPARE	10 A
9, SPARE	15 A

Instrument Panel Junction Block Assy:



RELAY:

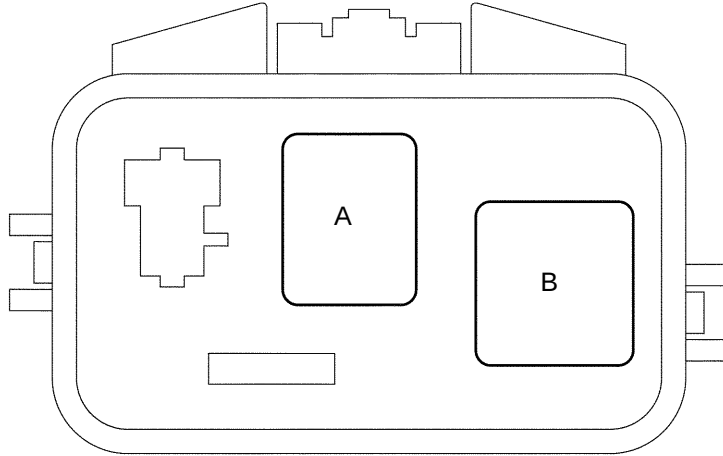
- A, FOG
- B, RR DEF
- C, TAIL
- D, IG 1
- E, ACC
- F, PWR

FUSE:

1, ECU-B	10 A	12, MIR HTR	10 A	23, WASHER	15 A
2, DOME	7.5 A	13, AM 1	5 A	24, FAN RLY	10 A
3, CIG	15 A	14, FOG	15 A	25, STOP	15 A
4, ECU-ACC	5 A	15, -		26,	
5, RAD No.2	10 A	16, GAUGE 2	10 A	27,	
6, POWER POINT	15 A	17, PANEL	10 A	28,	
7, RAD No.1	20 A	18, TAIL	10 A	29,	
8, GAUGE 1	10 A	19, -		30, PWR SEAT	30 A
9, ECU-IG	10 A	20, -		31, PWR No.1	30 A
10, WIPER	25 A	21, OBD	7.5 A	32, DEF	40 A
11, HTR	10 A	22, SEAT HTR	20 A		

w/ VSC:

ABS Relay Block Sub-Assy:



RELAY:

A, VSC CUT

B, VSC MTR

I43451

COMBINATION METER

PROBLEM SYMPTOMS TABLE

7105L-06

Warning Lights:

Symptom	Suspected Area	See page
Check engine warning light does not come on.	1. Wire Harness or Connector 2. ECM 3. Combination Meter Assy	– 05-5 05-353 05-496 71-29
Discharge warning light does not come on.	1. Wire Harness or Connector 2. ECM 3. Combination Meter Assy	– 05-5 05-353 05-496 71-29
Brake warning light does not come on.	1. Wire Harness or Connector 2. Brake Actuator Assy (ABS) 3. Combination Meter Assy	– 05-870 05-930 71-29
ABS warning light does not come on.	1. Wire Harness or Connector 2. Brake Actuator Assy (ABS) 3. ABS & Traction Actuator Assy (VSC) 4. Combination Meter Assy	– 05-870 05-930 05-983 71-29
SRS warning light does not come on.	1. Wire Harness or Connector 2. Airbag Sensor Assy Center 3. Combination Meter Assy	– 05-1449 71-29
Open door warning light does not come on.	1. Wire Harness or Connector 2. Front Door Courtesy Lamp Switch Circuit 3. Body ECU 4. Combination Meter Assy	– 05-2026 – 71-29
Fuel level warning light does not come on.	1. Wire Harness or Connector 2. Fuel Sender Gauge Assy 3. Combination Meter Assy	– – 71-29
Low oil pressure warning light does not come on.	1. Wire Harness or Connector 2. Low Oil Pressure Warning Switch 3. Combination Meter Assy	– 71-3 71-29
Window washer level warning does not come on.	1. Wire Harness or Connector 2. Window Washer Level Warning Switch 3. Combination Meter Assy	– 71-3 71-29
Seat belt warning lamp for driver's seat does not come on.	1. Wire Harness or Connector 2. Refer to Troubleshooting 3. Combination Meter Assy	– 05-2021 71-29

Indicator Lights:

Symptom	Suspected Area	See page
Shift indicator lights do not come on.	1. Wire Harness or Connector 2. Park/Neutral Position Switch Circuit 3. Combination Meter Assy	– 05-1111 05-1239 71-29
Turn signal indicator light does not come on.	1. Wire Harness or Connector 2. Turn Signal and Hazard Warning System 3. Combination Meter Assy	– 05-1788 71-29
High beam indicator light does not come on.	1. Wire Harness or Connector 2. Headlight Dimmer Switch 3. Combination Meter Assy	– 05-1788 71-29

O/D OFF indicator light does not come on.	1. Wire Harness or Connector 2. O/D Main Switch Circuit 3. ECM 4. Combination Meter Assy	– 05-1111 05-1239 05-5 05-353 05-496 71-29
TRAC indicator light does not come on.	1. Wire Harness or Connector 2. VSC OFF Indicator, VSC Cut Switch Circuit 3. Combination Meter Assy	– 05-983 71-29
SLIP indicator light does not come on.	1. Wire Harness or Connector 2. Slip Indicator Circuit 3. Combination Meter Assy	– 05-2206 71-29
HEADLAMP indicator light does not come on.	1. Wire Harness or Connector 2. Combination Meter Assy	– 71-29
MAINT REQD indicator light does not come on.	1. Refer to Troubleshooting 2. Combination Meter Assy	71-3 71-29
CRUISE indicator light does not come on.	1. Wire Harness or Connector 2. ABS & Traction Actuator Assy (VSC) 3. Combination Meter Assy	– 05-2206 71-29
VSC indicator light does not come on.	1. Wire Harness or Connector 2. ABS & Traction Actuator Assy (VSC) 3. Combination Meter Assy	– 05-2206 71-29

Meter Gauges:

Symptom	Suspected Area	See page
Tachometer, fuel gauge and water temperature gauge do not operate.	1. Wire Harness or Connector 2. GAUGE Fuse 3. Combination Meter Assy	– – 71-29
Fuel gauge does not operate or abnormal operation.	1. Wire Harness or Connector 2. Fuel Receiver Gauge 3. Combination Meter Assy	– – 71-29

Buzzer:

Symptom	Suspected Area	See page
Key reminder warning buzzer does not sound.	1. Refer to troubleshooting 2. Wire Harness or Connector 3. Combination Meter Assy	05-2026 – 71-29
Driver's seat belt warning buzzer does not sound.	1. Refer to troubleshooting 2. Wire Harness or Connector 3. Combination Meter Assy	05-2026 – 71-29
Front passenger's seat belt warning buzzer does not sound.	1. Refer to troubleshooting 2. Wire Harness or Connector 3. Combination Meter Assy	05-2026 – 71-29

Clock:

Symptom	Suspected Area	See page
Seat belt warning lamp for passenger's seat does not come on.	1. Wire Harness or Connector 2. Refer to Troubleshooting 3. Combination Meter Assy	– 05-2023 71-29

ON-VEHICLE INSPECTION

1. INSPECT SPEEDOMETER

(a) Check the operation.

- (1) Using a speedometer tester, inspect the speedometer for allowable indication error and check the operation of the odometer.

USA (mph):

Standard indication	Allowable range
20 mph	20 to 23.0 mph
40 mph	40 to 43.5 mph
60 mph	60 to 64.0 mph
80 mph	80 to 84.5 mph
100 mph	100 to 105.0 mph
120 mph	120 to 125.5 mph

CANADA (km/h):

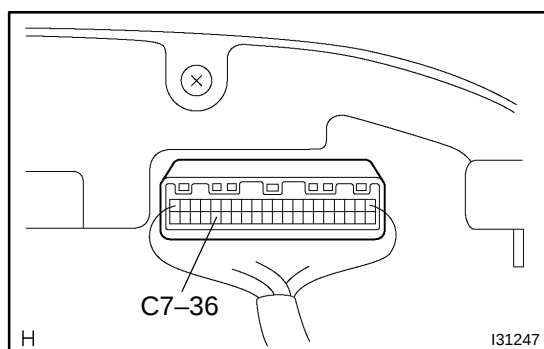
Standard indication	Allowable range
20 km/h	17.5 to 21.5 km/h
40 km/h	38.0 to 42.0 km/h
60 km/h	58.0 to 63.0 km/h
80 km/h	78.0 to 84.0 km/h
100 km/h	98.5 to 104.5 km/h
120 km/h	119.0 to 125.0 km/h
140 km/h	139.0 to 146.0 km/h
160 km/h	159.0 to 167.0 km/h
180 km/h	179.0 to 188.0 km/h
200 km/h	199.0 to 209.0 km/h

NOTICE:

Tire wear and tire over or under inflation will cause the indication error.

- (2) Check the deflection range of the speedometer indicator.

Reference: Below 0.5 km/h (0.3 mph)



2. INSPECT OUTPUT SIGNAL OF VEHICLE SPEED

(a) Check the input signal wave form.

- (1) Remove the combination meter with connectors still connected.
 (2) Connect the oscilloscope to terminal C7-36 and body ground.
 (3) Start the engine.
 (4) Check the signal wave form.

OK:

Signal wave form generates.

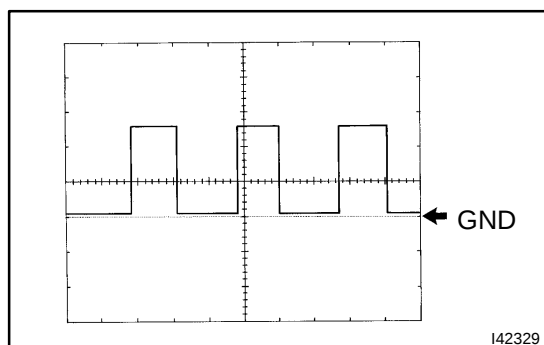
HINT:

A wave form as shown on the left appears if the voltage is 12 V under the following conditions:

Item	Condition
Tool setting	5 V/DIV, 20 ms/DIV
Vehicle condition	Driving at approx. 20 km/h (12 mph)

HINT:

As vehicle speed increases, the cycle of the signal wave form narrows.



3. INSPECT TACHOMETER

(a) Check the operation

- (1) Connect a tune-up test tachometer, and start the engine.

NOTICE:

- **Reversing the connection of the tachometer will damage the transistors and diodes inside.**
 - **When removing or installing the tachometer, be careful not to drop or subject it to heavy shocks.**
- (2) Compare the result of the test and tachometer indications.

DC 13.5 V, 25°C at (77°F)

2AZ-FE:

Standard indication (r/min)	Allowable range (r/min) Data in () are for reference
700	630 to 770
1,000	(900 to 1,100)
2,000	(1,850 to 2,150)
3,000	2,800 to 3,200
4,000	(3,800 to 4,200)
5,000	4,800 to 5,200
6,000	(6,750 to 6,250)
7,000	(6,700 to 7,000)

1MZ-FE, 3MZ-FE:

Standard indication (r/min)	Allowable range (r/min) Data in () are for reference
700	618 to 758
1,000	(883 to 1,083)
2,000	(1,817 to 2,117)
3,000	2,750 to 3,150
4,000	(3,733 to 4,133)
5,000	4,717 to 5,117
6,000	(5,650 to 6,150)
7,000	(6,583 to 7,000)

Fuel Sender Gauge:



le-5-1-A

I30899

4. INSPECT FUEL RECEIVER GAUGE

(a) Inspect the circuit.

- (1) Disconnect the connector from the sender gauge.
 (2) Turn the ignition switch ON, then check the position of the receiver gauge needle.

Standard:

Needle position is EMPTY and FUEL warning light comes on.

5. INSPECT FUEL LEVEL WARNING

(a) Inspect the circuit.

- (1) Disconnect the connector from the sender gauge.
 (2) Turn the ignition switch to ON, and check the position of the fuel level needle and the FUEL level warning light.

Standard:

Needle position is EMPTY and FUEL warning light comes on.

6. INSPECT ENGINE COOLANT TEMPERATURE RECEIVER GAUGE WARNING LIGHT

- (a) Inspect the circuit.
- (1) Disconnect the connector from the sender gauge.
 - (2) Turn the ignition switch to ON, and check the position of the water temperature receiver gauge needle.

OK:**Needle position: COOL**

- (3) Ground terminal 2 on the wire harness side, then check the position of the water temperature receiver gauge needle.

OK:**Needle position: HOT****7. INSPECT SEAT BELT WARNING LIGHT (Driver Side)**

- (a) Check the operation.
- (1) Turn the ignition switch to ON and check that the warning light lights up.
 - (2) Fasten the outer belt to the inner belt and check that the warning light goes off.
 - (3) Disconnect the connector from the buckle switch and ground terminal on the wire harness side connector.
 - (4) Turn the ignition switch to ON and check the warning light.

OK:**Seat belt warning light: Come on****8. INSPECT LOW OIL PRESSURE WARNING LIGHT**

- (a) Inspect the circuit.
- (1) Disconnect the connector from the low oil pressure switch.
 - (2) Turn the ignition switch to ON.
 - (3) Connect the terminal of wire harness side connector to ground, then check the warning low oil pressure warning light.

OK:**Low oil pressure warning light: Come on****9. INSPECT BRAKE WARNING LIGHT**

- (a) Inspect the parking brake warning light.
- (1) Disconnect the connector from the parking brake switch and ground terminal on the wire harness side connector.
 - (2) Turn the ignition switch to ON and check the warning light.

OK:**Brake warning light: Come on**

- (b) Inspect the brake fluid level warning light.
- (1) Disconnect the connector from the brake fluid level warning switch and connect terminals on the wire harness side connector.
 - (2) Turn the ignition switch to ON and check the warning light.

OK :**Brake fluid level warning light: Come on**

10. INSPECT BRAKE FLUID LEVEL WARNING SWITCH

- (a) Inspect the continuity.
- (1) Remove the reservoir tank cap and strainer.
 - (2) Disconnect the connector.
 - (3) Check that the continuity exists between the terminals.

OK:

Float up (switch off): No continuity

- (4) Use a syphon, etc., to take fluid out of the reservoir tank.
- (5) Check that the continuity exists between the terminals.

OK:

Float down (switch on): Continuity

- (6) Pour the fluid back in the reservoir tank.

11. INSPECT SEAT BELT WARNING BUZZER

- (a) When only driver's seat is occupied.
- (1) Turn the ignition switch to ON and check that the driver's seat belt warning sounds if the driver's seat belt is not fastened about 1.8 seconds after the ignition switch is turned to ON.
 - (2) Check that the buzzer stops after about 6 seconds.
- (b) When both driver's seat and passenger's seat are occupied
- (1) When either of the seat belts for the driver seat and front passenger seat is not fastened within 13.8 seconds after the ignition switch is turned to ON, the buzzer sounds for 9.6 seconds.
 - (2) When the seat belt is still not fastened after that, the buzzer is switched to level 2 and sounds for 20 seconds.

12. INSPECT KEY REMINDER WARNING BUZZER

- (a) Check warning buzzer function.
- (1) Turn the ignition switch off and check that the key reminder warning sounds if the ignition key is inserted into the key cylinder and the front driver side door is opened.

OK :

Warning buzzer sounds

13. INSPECT WASHER LEVEL WARNING SWITCH

- (a) Disconnect the connector from the washer level warning switch.
- (b) Turn the ignition switch to ON.
- (c) Ground terminal of the wire harness side connector, then check the washer level warning light.

OK:

Washer level warning light comes on.

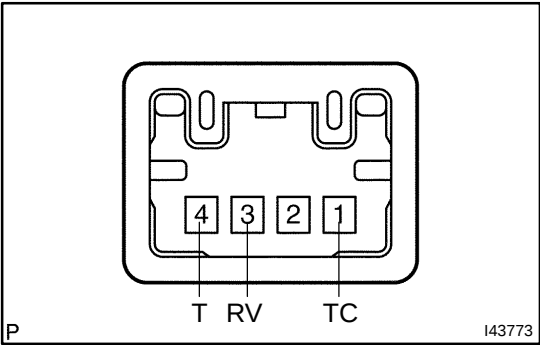
14. MAINTENANCE LIQUID RESETTING PROCEDURE**Indicator Condition:**

State	Condition	Specified state
Blinking	The vehicle runs 4,500 $\pm$ 100 miles after the previous setting	The indicator blinks for 15 seconds after the ignition switch is turned on (including 3 seconds for a valve check).
Continuously Illuminated	The vehicle runs 5,000 $\pm$ 100 miles after the previous setting	The indicator is continuously illuminated after the ignition switch is turned on.

- (a) Set the display window to ODO.
- (b) Turn the ignition switch off.
- (c) While pressing the reset switch, turn the ignition switch to the ON position (keep pressing for at least 5 seconds).
- (d) Reset procedure is completed.

HINT:

- If the ignition switch is turned off during the reset procedure, reset mode is canceled.
- If the reset switch is turned off during the reset procedure, reset mode is canceled and the display shows the condition prior to the reset procedure.



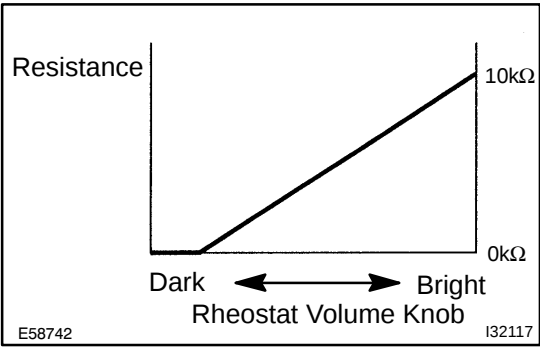
INSPECTION

1. LIGHT CONTROL RHEOSTAT

- (a) Inspect continuity.
- (1) Check the continuity between the light control rheostat connector terminals when operating the rheostat volume knob.

Standard:

Switch	Tester connection (Symbol)	Condition
Turn the knob to maximum	1 (TC) – 4 (T)	Below 1 Ω
Conditions other than the above	1 (TC) – 4 (T)	10 k Ω or higher



- (b) Check the resistance between terminal 3 (RV) and terminal 4 (T) when operating the light control rheostat volume knob. Also, check that the resistance changes continuously.

Standard:

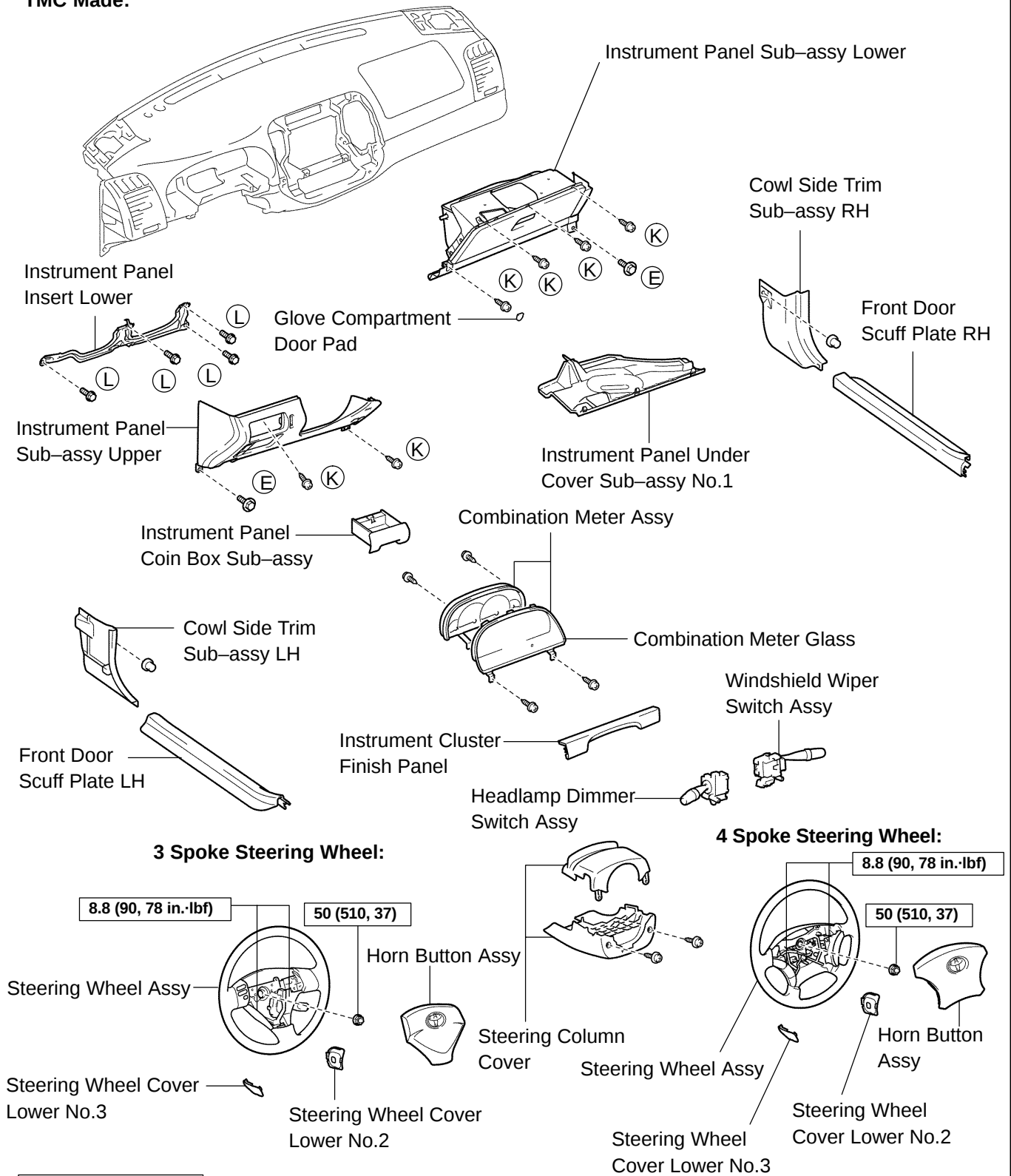
Turn the knob to maximum: Approx. 10 k Ω

Turn the knob to minimum: Approx. 0 k Ω

INSTRUMENT PANEL/METER COMPONENTS

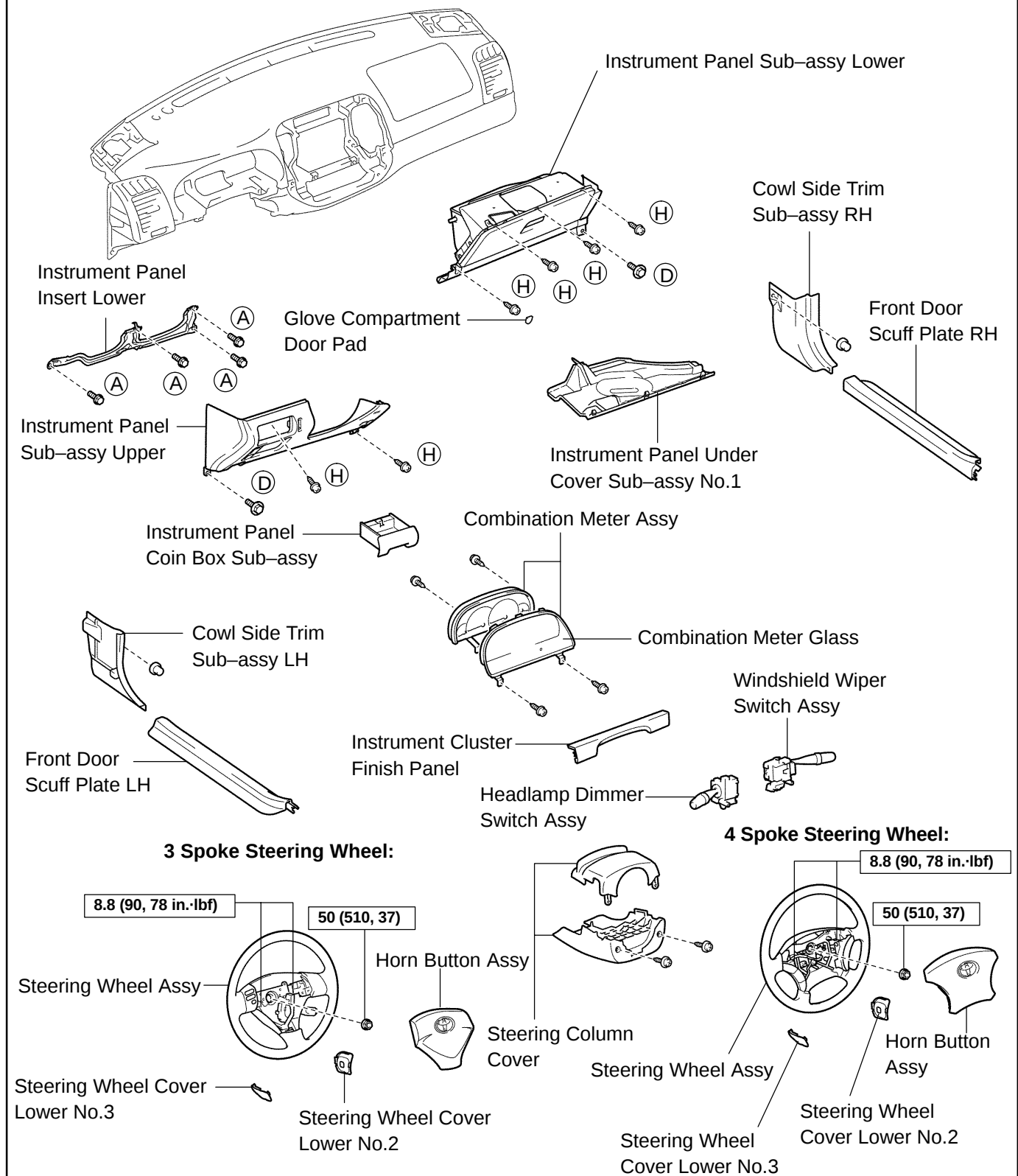
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TMC Made:



N·m (kgf·cm, ft·lbf) : Specified torque

B88046

TMMK Made:

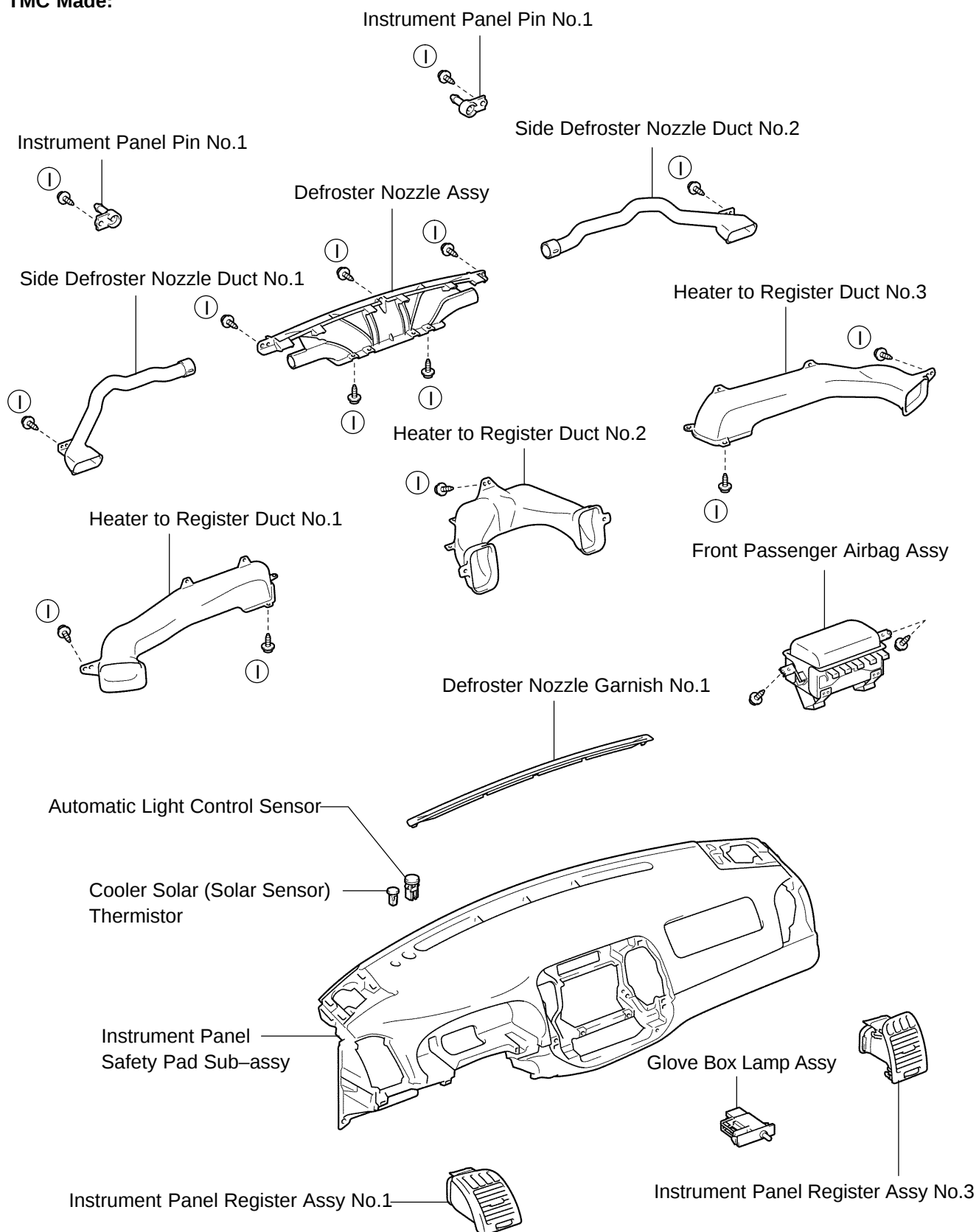
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N·m (kgf·cm, ft·lbf) : Specified torque

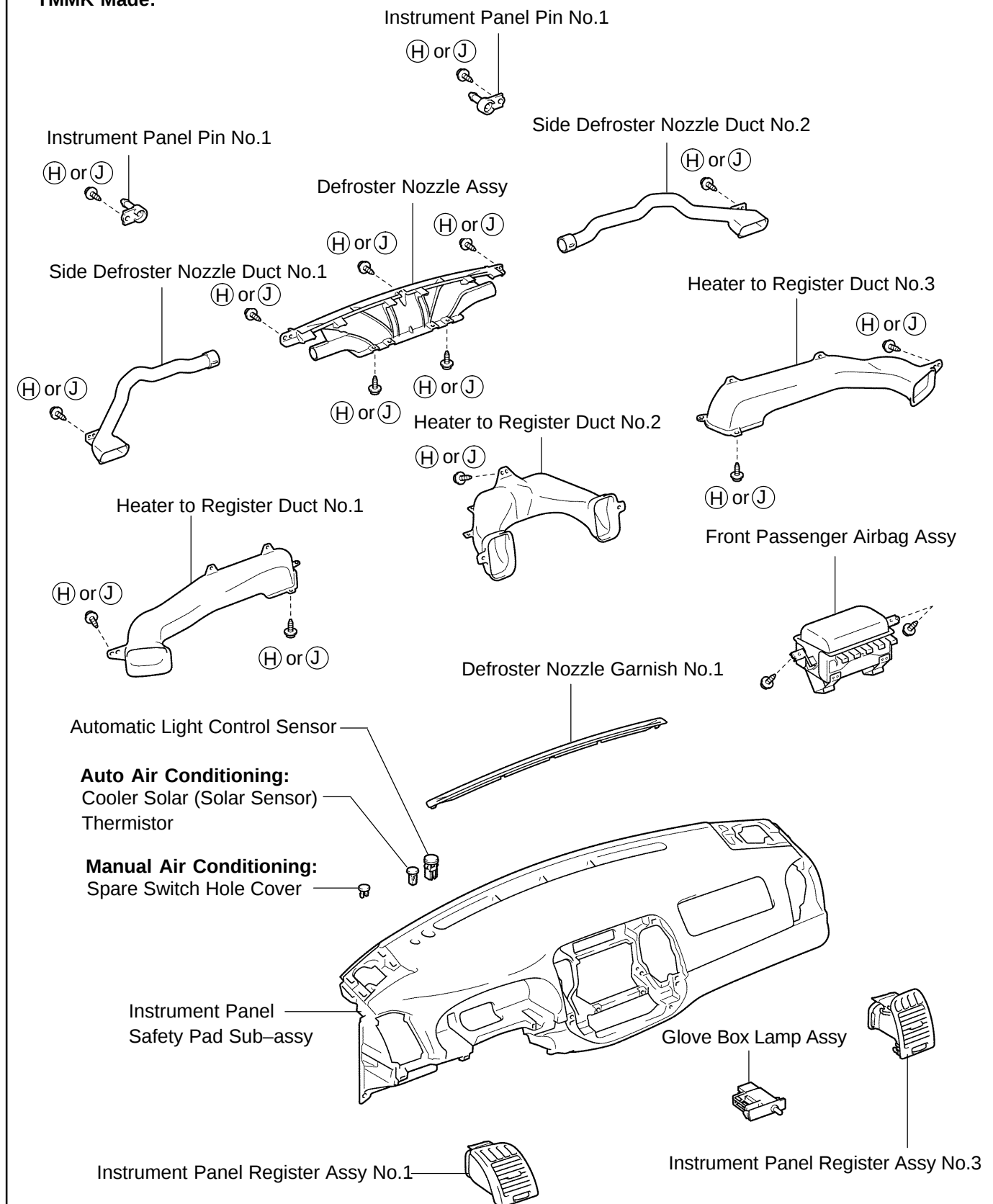
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TMC Made:

B86386

TMMK Made:

INSTRUMENT PANEL SAFETY PAD SUB-ASSY

7105H-03

PRECAUTION

1. PRECAUTION FOR VEHICLE WITH SRS AIRBAG AND SEAT BELT PRETENSIONER

- (a) Some operations in this section may affect the SRS airbags. Prior to performing the corresponding operations, read the SRS airbag NOTICE (See page [60-1](#)).

REPLACEMENT

HINT:

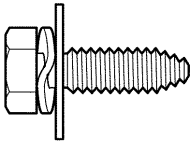
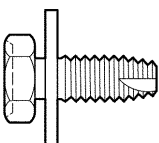
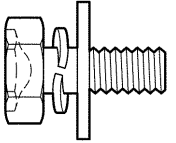
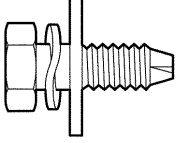
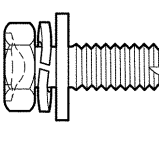
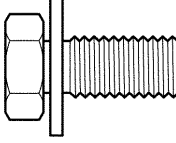
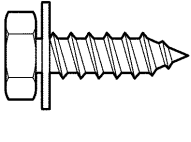
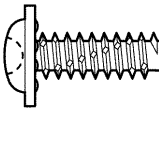
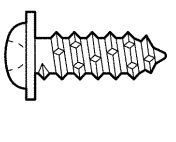
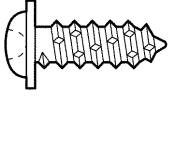
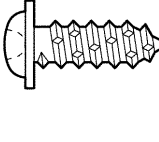
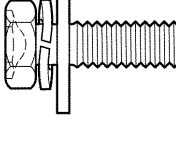
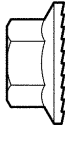
- COMPONENTS: See page 71-9.
- Installation is in the reverse order of removal.

1. TABLE OF BOLT, SCREW AND NUT

HINT:

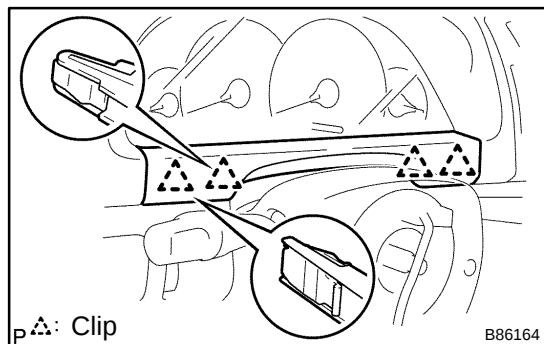
All bolts, screws and nuts relevant to installing and removing the instrument panel are shown along with their alphabet code in the table below.

mm (in.) (L = Length)

Code	Shape	Code	Shape	Code	Shape
<A>	 φ = 6 (0.24) L = 20 (0.79) 90119-06144		 φ = 6 (0.24) L = 16 (0.63) 90119-06480	<C>	 φ = 6 (0.24) L = 16 (0.63) 90119-06220
<D>	 φ = 6 (0.24) L = 18 (0.71) 90119-06428	<E>	 φ = 6 (0.24) L = 20 (0.79) 90119-06166	<F>	 φ = 8 (0.31) L = 20 (0.79) 91633-60820
<G>	 φ = 6 (0.24) L = 20 (0.79) 90159-60200	<H>	 φ = 5 (0.20) L = 14 (0.55) 90167-50002	<I>	 φ = 5 (0.20) L = 16 (0.63) 93567-15016
<J>	 φ = 5 (0.20) L = 16 (0.63) 93567-55016	<K>	 φ = 5 (0.20) L = 18 (0.71) 93567-55018	<L>	 φ = 6 (0.24) L = 25 (0.98) 90119-06116
<M>	 φ = 6 (0.24) 90179-06097	<N>	 φ = 6 (0.24) 90179-06115		

P

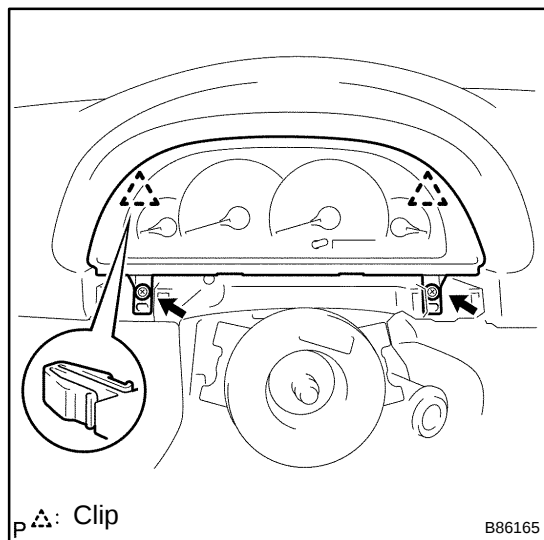
2. DISCONNECT BATTERY NEGATIVE TERMINAL (SEE PAGE 60-1)
3. REMOVE STEERING WHEEL COVER LOWER NO.2
4. REMOVE STEERING WHEEL COVER LOWER NO.3
5. REMOVE HORN BUTTON ASSY (SEE PAGE 60-25)
6. REMOVE STEERING WHEEL ASSY (SEE PAGE 50-9 or 50-21)
SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)



7. REMOVE INSTRUMENT CLUSTER FINISH PANEL

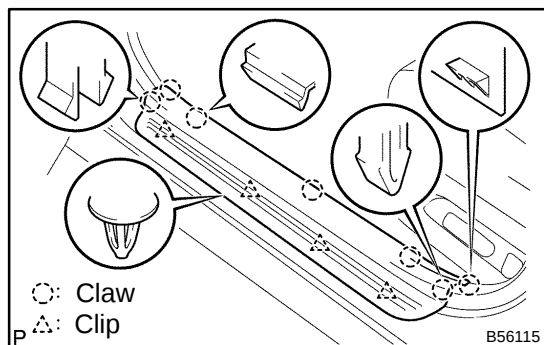
- (a) Disengage the 4 clips and remove the instrument cluster finish panel.

8. REMOVE STEERING COLUMN COVER (SEE PAGE 50-9 or 50-21)
9. REMOVE HEADLAMP DIMMER SWITCH ASSY (SEE PAGE 65-23)
10. REMOVE WINDSHIELD WIPER SWITCH ASSY (SEE PAGE 66-10)



11. REMOVE COMBINATION METER ASSY

- (a) Remove the 2 screws and disengage the 2 clips.
- (b) Pull out the combination meter assy, then disconnect the connectors.



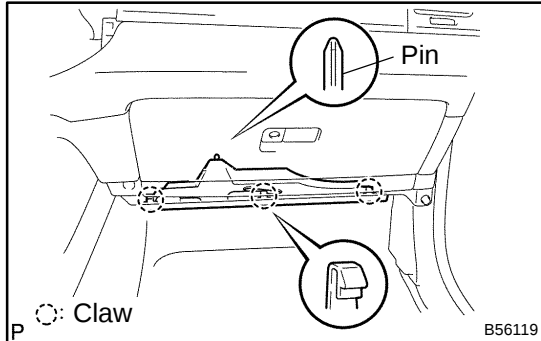
12. REMOVE FRONT DOOR SCUFF PLATE LH

- (a) Disengage the 7 claws and 4 clips then remove the front door scuff plate LH.

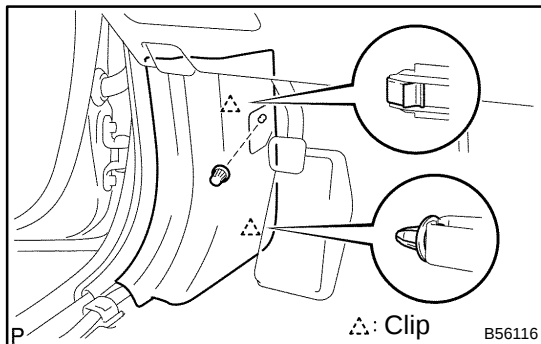
13. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the RH side and LH side.

**14. REMOVE INSTRUMENT PANEL UNDER COVER SUB-ASSY NO.1**

- (a) Disengage the 3 claws and pin.
- (b) Remove the instrument panel under cover sub-assy No.1.

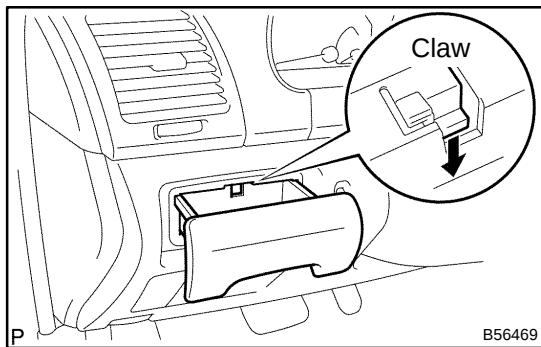
**15. REMOVE COWL SIDE TRIM SUB-ASSY LH**

- (a) Remove the clip.
- (b) Disengage the 2 clips and remove the cowl side trim sub-assy LH.

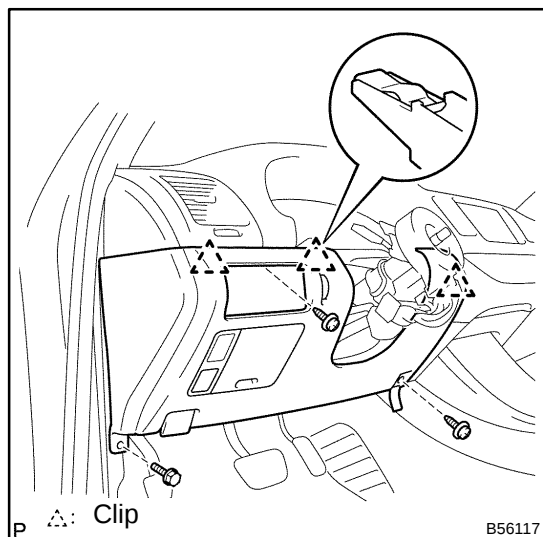
16. REMOVE COWL SIDE TRIM SUB-ASSY RH

HINT:

Use the same procedures for the RH side and LH side.

**17. REMOVE INSTRUMENT PANEL COIN BOX SUB-ASSY**

- (a) Disengage the claw and remove the instrument panel coin box sub-assy.

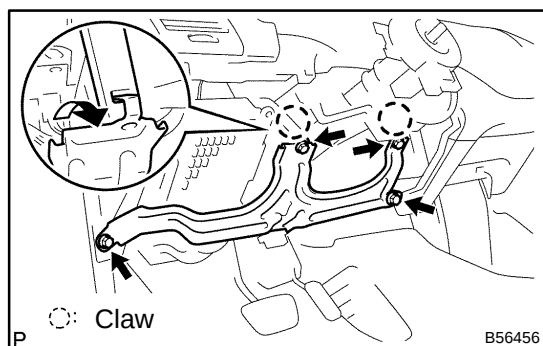
**18. REMOVE INSTRUMENT PANEL SUB-ASSY UPPER**

- (a) Disconnect the hood lock control cable.
- (b) Using a screwdriver, open the instrument panel sub-assy upper cover.

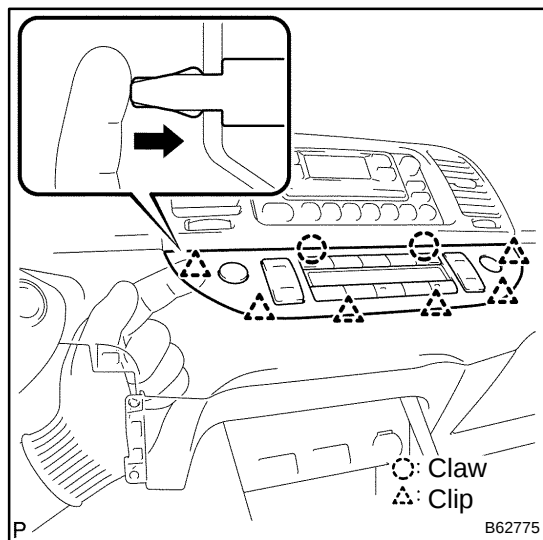
HINT:

Tape the screwdriver tip before use.

- (c) TMC made:
Remove the bolt <E> and 2 screws <K>.
- (d) TMMK made:
Remove the bolt <D> and 2 screws <H>.
- (e) Disengage the 3 clips.
- (f) Disconnect the connectors and remove the instrument panel sub-assy upper.

**19. REMOVE INSTRUMENT PANEL INSERT LOWER**

- (a) TMC made:
Remove the 4 bolts <L>.
- (b) TMMK made:
Remove the 4 bolts <A>.
- (c) Disengage the 2 claws and remove the instrument panel insert lower.

**20. REMOVE AIR CONDITIONER CONTROL ASSEMBLY (AUTO AIR CONDITIONING)**

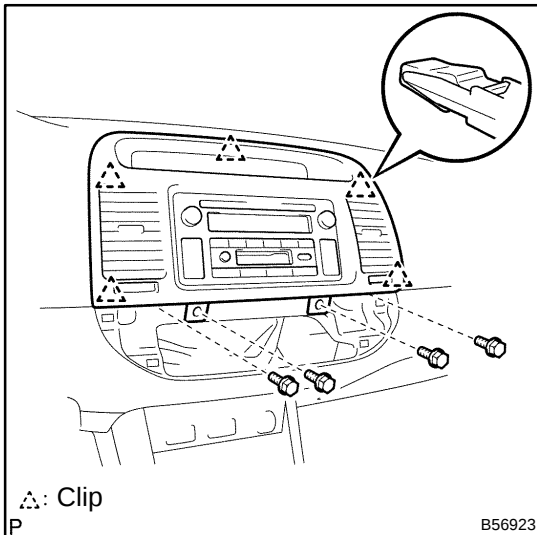
- (a) Put in a hand from the position indicated in the illustration and push out the clip with fingers.
- (b) Remove the remaining clips, disengage the claws, and then take off the air conditioner control assembly.

NOTICE:

- Perform this procedure wearing the protection gloves.
- Do not use any tools to avoid damage to the instrument panel safety pad sub-assembly.

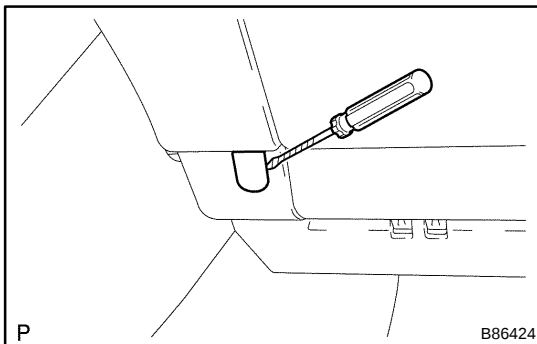
21. REMOVE AIR CONDITIONING PANEL SUB-ASSY (MANUAL AIR CONDITIONING)**HINT:**

Use the same procedures for the air conditioner control assembly and air conditioning panel sub-assy.



22. REMOVE INSTRUMENT CLUSTER FINISH PANEL SUB-ASSY CENTER

- Remove the 4 bolts.
- Using a moulding remover, disengage 5 clips, remove the instrument cluster finish panel sub-assy center with radio receiver assy, then disconnect the connectors.

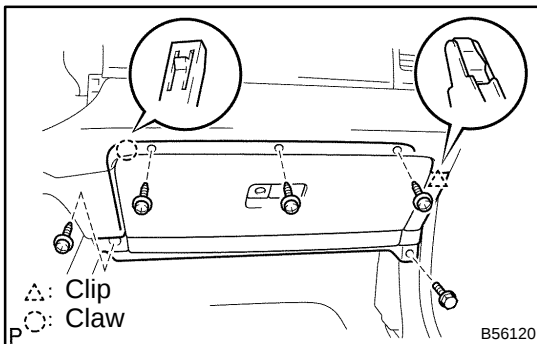


23. REMOVE GLOVE COMPARTMENT DOOR PAD

- Using a screwdriver, remove the glove compartment door pad.

HINT:

Tape the screwdriver tip before use.

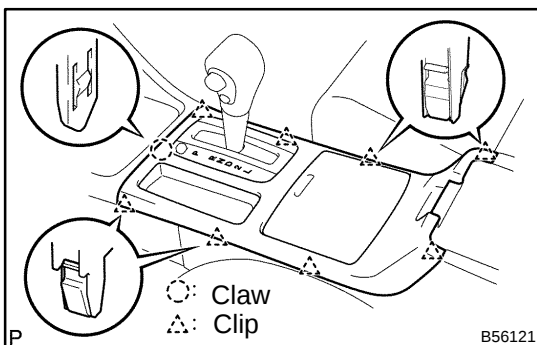


24. REMOVE INSTRUMENT PANEL SUB-ASSY LOWER

- TMC made:
Remove the bolt <E> and 4 screws <K>.
- TMMK made:
Remove the bolt <D> and 4 screws <H>.
- Disengage the claw and clip and remove the instrument panel sub-assy lower.

25. REMOVE SHIFT LEVER KNOB SUB-ASSY (MANUAL TRANSAXLE)

- Turn the shift lever knob sub-assy counterclockwise and remove the shift lever knob sub-assy.

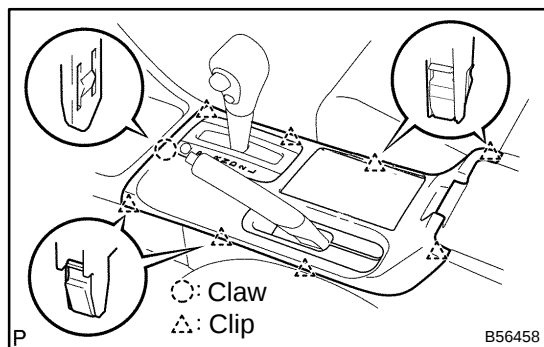


26. REMOVE CONSOLE PANEL UPPER REAR

- Foot parking brake:
Using a moulding remover, disengage the claw and 8 clips and remove the console panel upper rear.

HINT:

Set the shift lever in the N position.

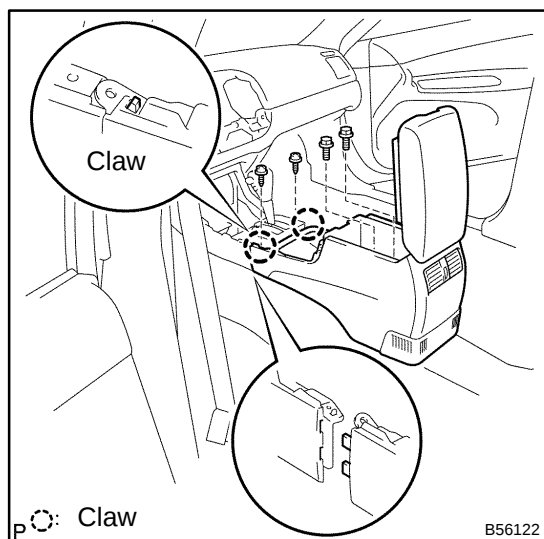


- (b) Hand parking brake:
Using a moulding remover, disengage the claw and 8 clips and remove the console panel upper rear.

HINT:

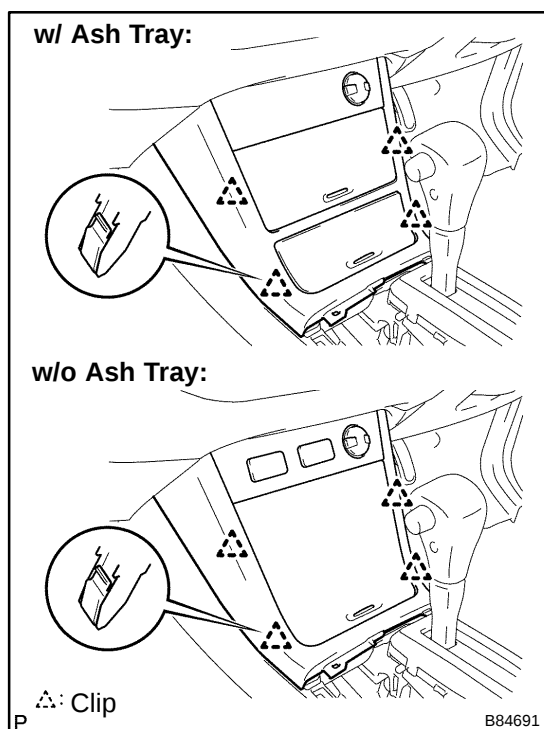
Set the shift lever in the N position (Automatic transaxle).

27. REMOVE CONSOLE BOX CARPET



28. REMOVE RR CONSOLE BOX

- (a) TMC made:
Remove the 2 bolts and 2 screws <I>.
- (b) TMMK made:
Remove the 2 bolts <C> and 2 screws <H>.
- (c) Disengage the 2 claws and remove the RR console box.

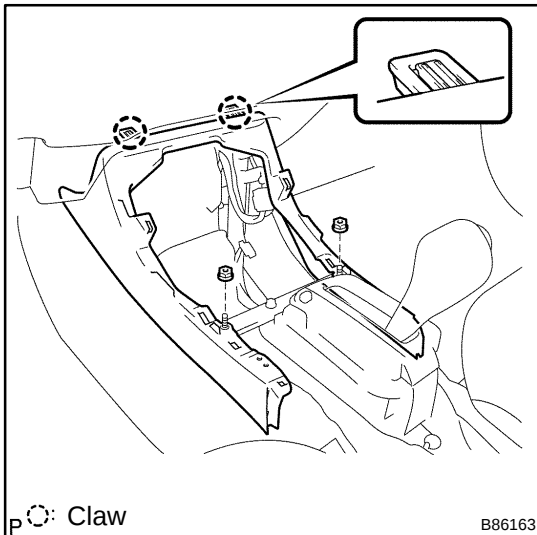


29. REMOVE CONSOLE PANEL SUB-ASSY

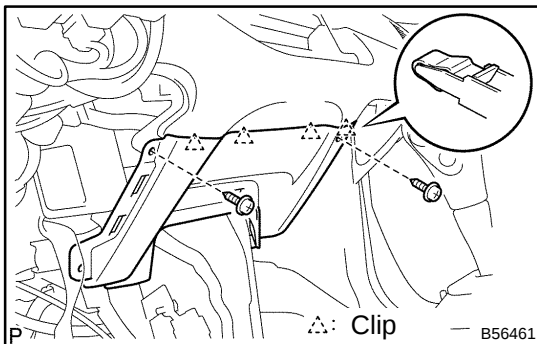
- (a) Using a moulding remover, disengage the 4 clips.
- (b) Disconnect the connectors and remove the console panel sub-assy.

HINT:

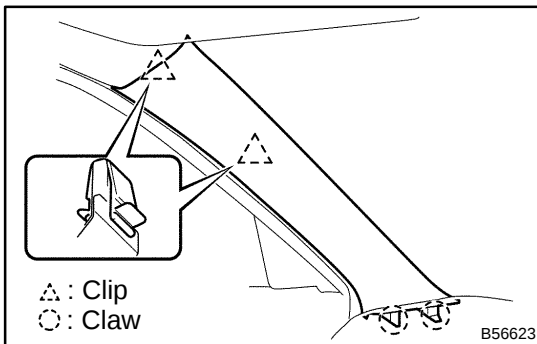
Set the shift lever in the N position (Automatic transaxle).

**30. REMOVE CONSOLE BOX FRONT**

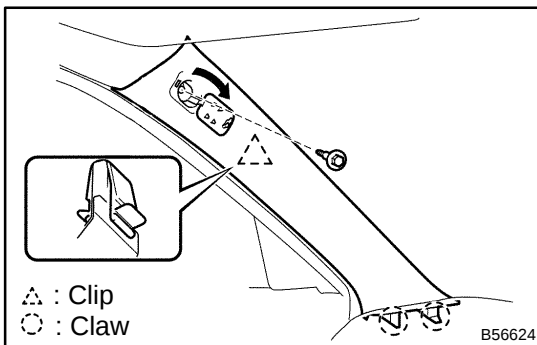
- (a) Remove the 2 nuts <M>.
- (b) Disengage the 2 claws and remove the console box front.

**31. REMOVE INSTRUMENT PANEL FINISH PANEL LOWER CENTER**

- (a) TMC made:
Remove the 2 screws <K>.
- (b) TMMK made:
Remove the 2 screws <H>.
- (c) Disengage the 4 clips and remove the instrument panel finish panel lower center.

**32. REMOVE FRONT PILLAR GARNISH LH (W/O CURTAIN SHIELD AIR BAG)**

- (a) Using a moulding remover, disengage the 2 clips and 2 claws then remove the front pillar garnish LH.

**33. REMOVE FRONT PILLAR GARNISH LH (W/ CURTAIN SHIELD AIR BAG)**

- (a) Using a screwdriver, open the cover and remove the bolt.
HINT:
Tape the screwdriver tip before use.
- (b) Using a moulding remover, disengage the clip and 2 claws then remove the front pillar garnish LH.

34. REMOVE FRONT PILLAR GARNISH RH (W/O CURTAIN SHIELD AIR BAG)

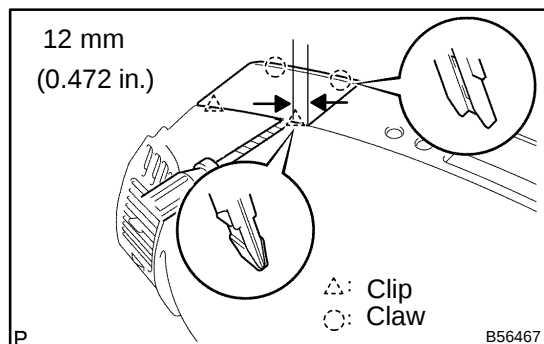
HINT:

Use the same procedures for the RH side and LH side.

35. REMOVE FRONT PILLAR GARNISH RH (W/ CURTAIN SHIELD AIR BAG)

HINT:

Use the same procedures for the RH side and LH side.

**36. REMOVE INSTRUMENT PANEL SPEAKER PANEL SUB-ASSY NO.2**

- (a) Using a screwdriver, disengage the 2 clips and 2 claws.

HINT:

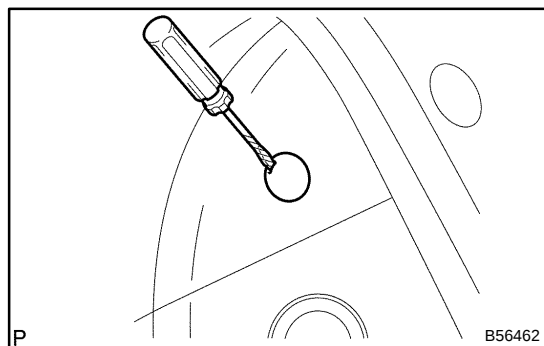
Tape the screwdriver tip before use.

- (b) Remove the instrument panel speaker panel sub-assy No.2.

37. REMOVE INSTRUMENT PANEL SPEAKER PANEL SUB-ASSY

HINT:

Use the same procedures for the instrument panel speaker panel sub-assy and instrument panel speaker panel sub-assy No.2.

38. REMOVE FRONT NO.2 SPEAKER ASSY (SEE PAGE 67-9)**39. DISCONNECT PASSENGER AIRBAG CONNECTOR (SEE PAGE 60-37)****40. REMOVE INSTRUMENT PANEL SAFETY PAD CAP**

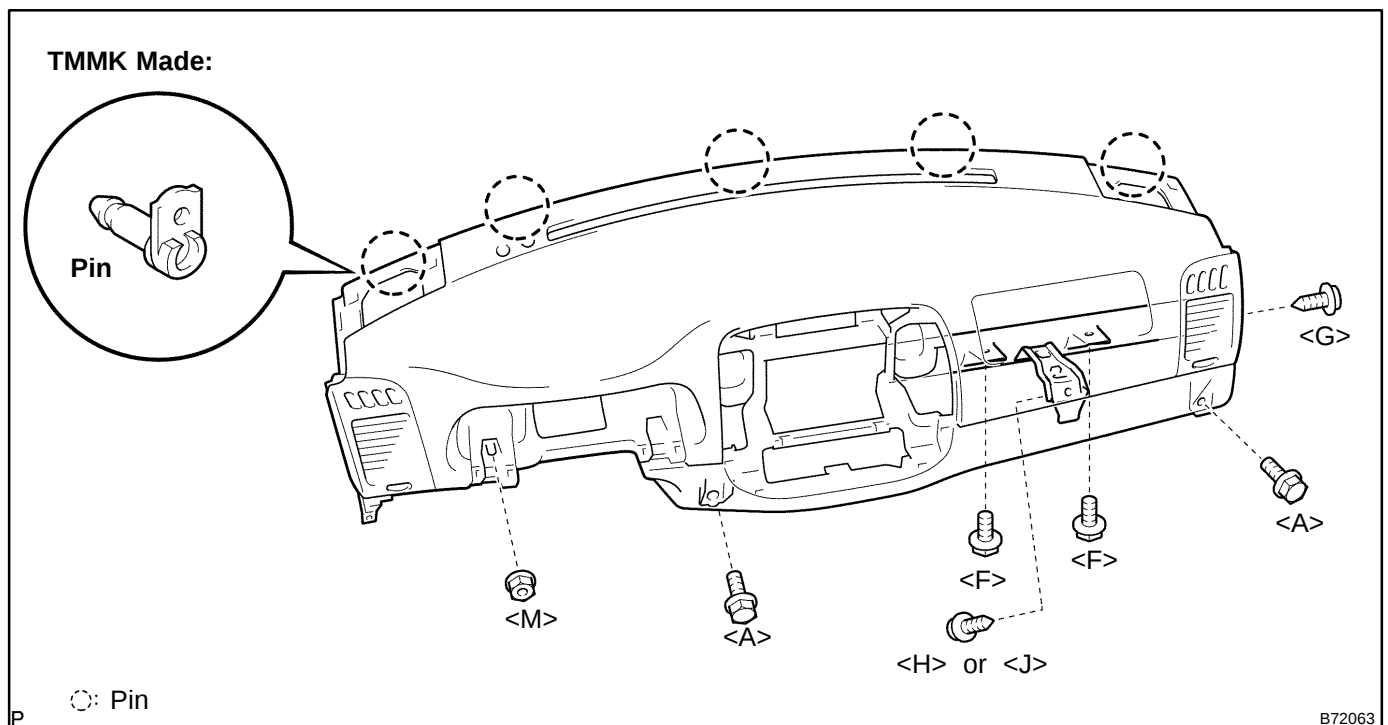
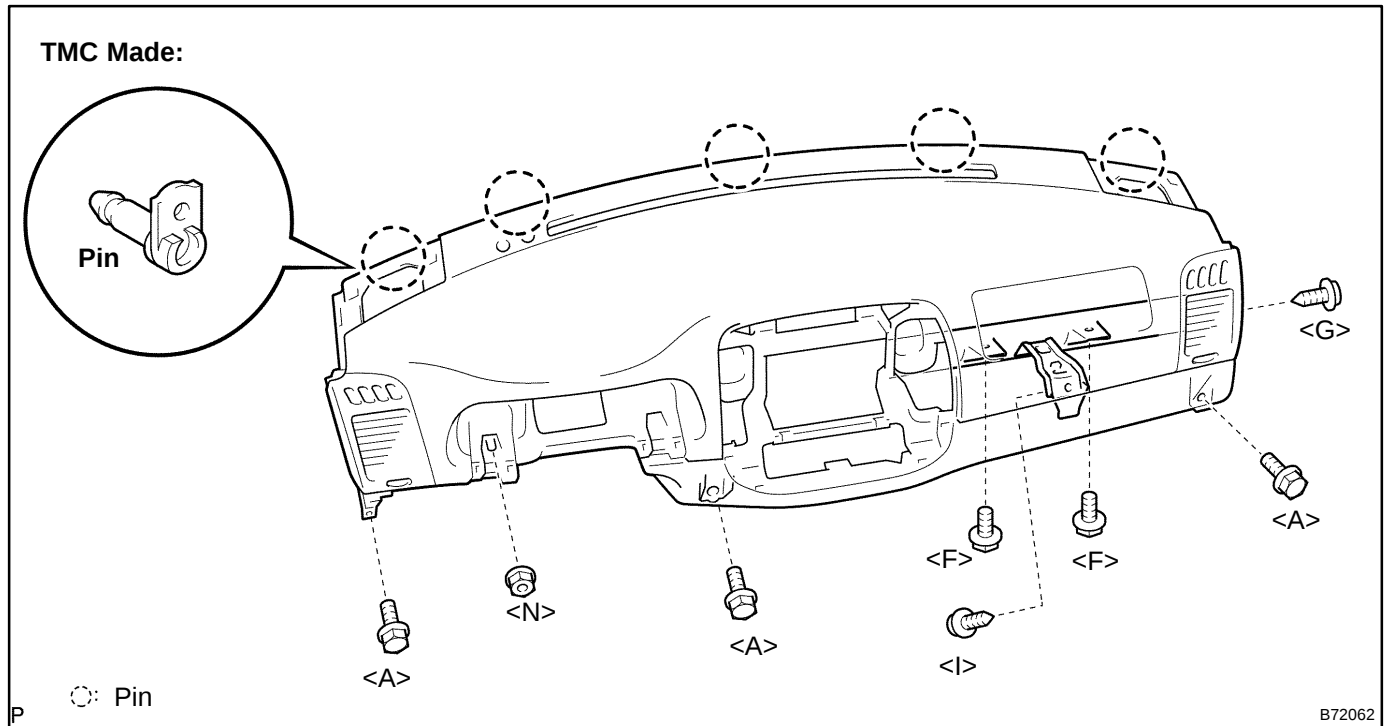
- (a) Using a screwdriver, remove the instrument panel safety pad cap.

HINT:

Tape the screwdriver tip before use.

41. REMOVE INSTRUMENT PANEL SAFETY PAD SUB-ASSY W/FRONT PASSENGER AIRBAG ASSY

- (a) TMC made:
Remove the 2 screws <G> <I>, nut <N> and 5 bolts <A> <F>.
- (b) TMMK made:
Remove the 2 screws <H> or <J> <G>, nut <M> and 4 bolts <A> <F>.
- (c) Disconnect the connectors.
- (d) Disengage the 5 pins and remove the instrument panel safety pad sub-assy with front passenger air-bag assy.



42. REMOVE INSTRUMENT PANEL REGISTER ASSY NO.2

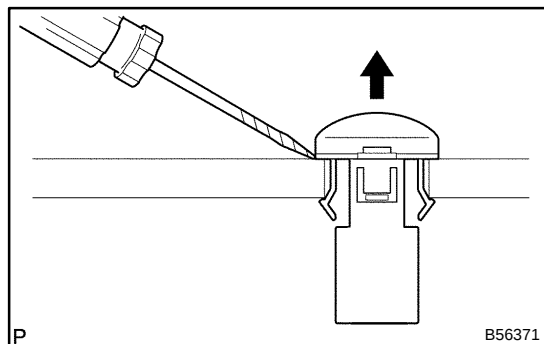
- (a) Disengage the 3 clips and 3 claws.
- (b) Remove the instrument panel register assy No.2.

43. REMOVE INSTRUMENT PANEL REGISTER ASSY NO.1

- (a) Disengage the 3 clips and 3 claws.
- (b) Remove the instrument panel register assy No.1.

44. REMOVE GLOVE BOX LAMP ASSY

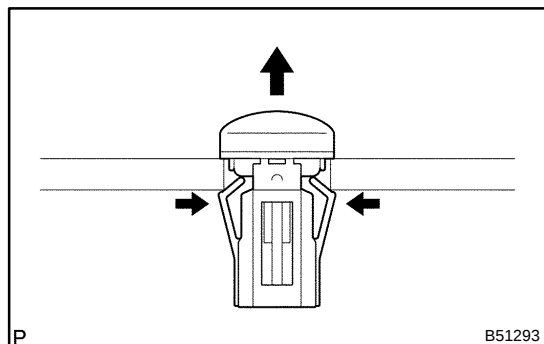
- (a) Disengage the 4 claws and remove the glove box lamp assy.

**45. REMOVE AUTOMATIC LIGHT CONTROL SENSOR**

- (a) Using a screwdriver, remove the automatic light control sensor.

HINT:

Tape the screwdriver tip before use.

**46. REMOVE COOLER (SOLAR SENSOR) THERMISTOR (AUTO AIR CONDITIONING)**

- (a) Remove the cooler (solar sensor) thermistor.

NOTICE:

Do not pry the cooler (solar sensor) thermistor off from the upper side.

47. REMOVE SPARE SWITCH HOLE COVER (MANUAL AIR CONDITIONING)**48. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.2**

- (a) TMC made:
Remove the screw <I> and side defroster nozzle duct No.2.
- (b) TMMK made:
Remove the screw <H> or <J> and side defroster nozzle duct No.2.

49. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.1

- (a) TMC made:
Remove the screw <I> and side defroster nozzle duct No.1.
- (b) TMMK made:
Remove the screw <H> or <J> and side defroster nozzle duct No.1.

50. REMOVE DEFROSTER NOZZLE ASSY

- (a) TMC made:
Remove the 5 screws <I> and defroster nozzle assy.
- (b) TMMK made:
Remove the 5 screws <H> or <J> and defroster nozzle assy.

51. REMOVE HEATER TO REGISTER DUCT NO.1

- (a) TMC made:
Remove the 2 screws <I> and heater to register duct No.1.
- (b) TMMK made:
Remove the 2 screws <H> or <J> and heater to register duct No.1.

52. REMOVE HEATER TO REGISTER DUCT NO.3

- (a) TMC made:
Remove the 2 screws <I> and heater to register duct No.3.
- (b) TMMK made:
Remove the 2 screws <H> or <J> and heater to register duct No.3.

53. REMOVE HEATER TO REGISTER DUCT NO.2

- (a) TMC made:
Remove the screw <I> and heater to register duct No.2.
- (b) TMMK made:
Remove the screw <H> or <J> and heater to register duct No.2.

54. REMOVE DEFROSTER NOZZLE GARNISH NO.1

- (a) Disengage the 5 clips and remove the defroster nozzle garnish No.1.

55. REMOVE INSTRUMENT PANEL PIN NO.1

- (a) TMC made:
Remove the 2 screws <I> and 2 instrument panel pin No.1.
- (b) TMMK made:
Remove the 2 screws <H> or <J> and 2 instrument panel pin No.1.

56. REMOVE FRONT PASSENGER AIRBAG ASSY (SEE PAGE 60-37)**57. INSTALL FRONT PASSENGER AIRBAG ASSY (SEE PAGE 60-37)****58. INSTALL INSTRUMENT PANEL SAFETY PAD SUB-ASSY W/FRONT PASSENGER AIRBAG ASSY**

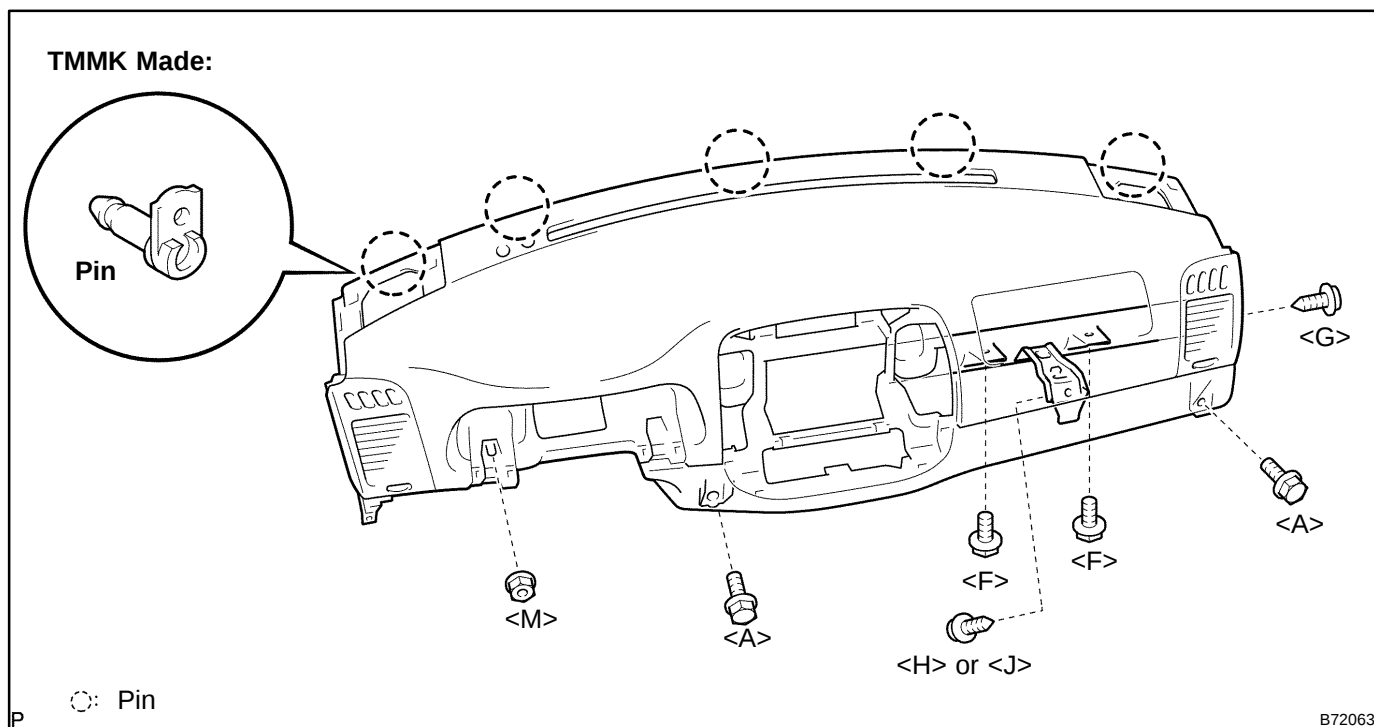
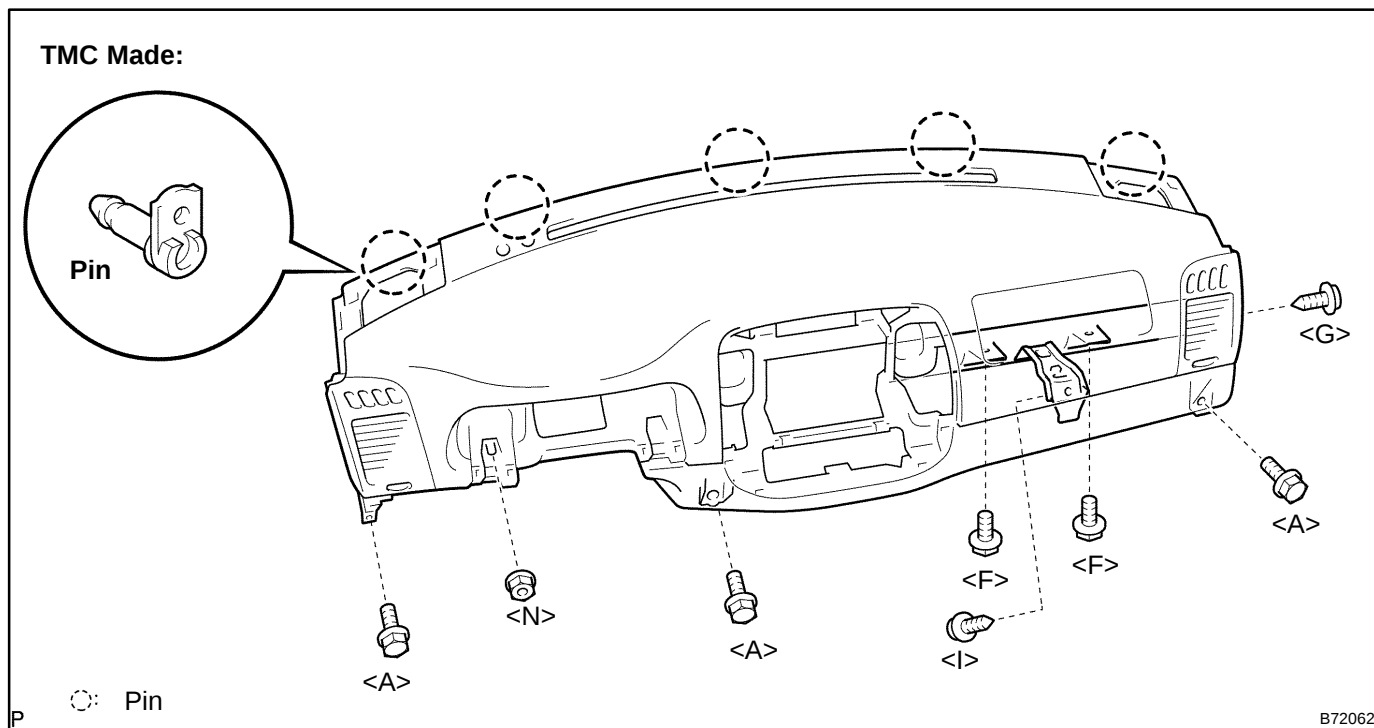
- (a) Engage the 5 pins.
- (b) Connect the connectors.
- (c) TMC made:
Install the instrument panel safety pad sub-assy w/ front passenger aibag assy with the 2 screws <G> <I>, nut <N>, and 5 bolts <A> <F>.

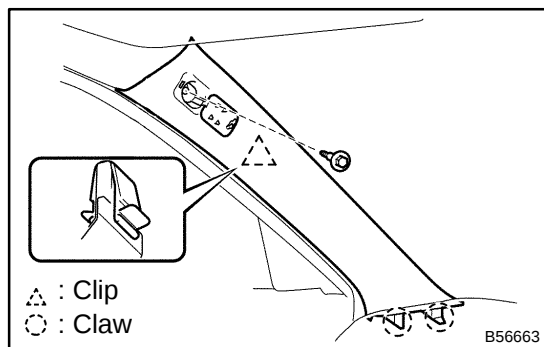
Torque:**Bolt <F> : 20 N·m (204 kgf·cm, 15 ft·lbf)**

- (d) TMMK made:
Install the instrument panel safety pad sub-assy w/ front passenger airbag assy with the 2 screws <H> or <J> <G>, nut <M>, and 4 bolts <A> <F>.

Torque :

Bolt <F>: 20 N·m (204 kgf·cm, 15 ft·lbf)



**59. INSTALL FRONT PILLAR GARNISH LH (W/ CURTAIN SHIELD AIR BAG)**

- (a) Engage the 2 claws and clip.
- (b) Install the front pillar garnish with the bolt.

Torque:

7.5 to 20 N·m (77 to 204 kgf·cm, 67 in·lbf to 14 ft·lbf)

60. INSTALL FRONT PILLAR GARNISH RH (W/ CURTAIN SHIELD AIR BAG)**HINT:**

Use the same procedures for the RH side and LH side.

- 61. CENTER SPIRAL CABLE (SEE PAGE 60-34)**
- 62. INSTALL STEERING WHEEL ASSY (SEE PAGE 50-9 or 50-21)**
- 63. INSTALL HORN BUTTON ASSY (SEE PAGE 60-25)**
- 64. INSPECT HORN BUTTON ASSY (SEE PAGE 60-17)**
- 65. INSPECT SRS WARNING LIGHT (SEE PAGE 05-1456)**

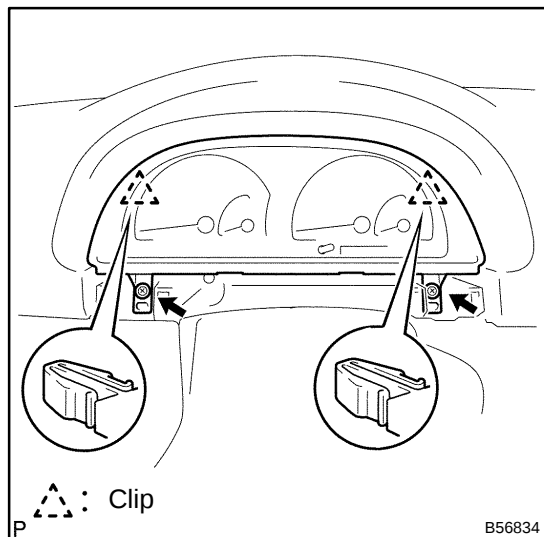
COMBINATION METER ASSY OVERHAUL

7105J-03

HINT:

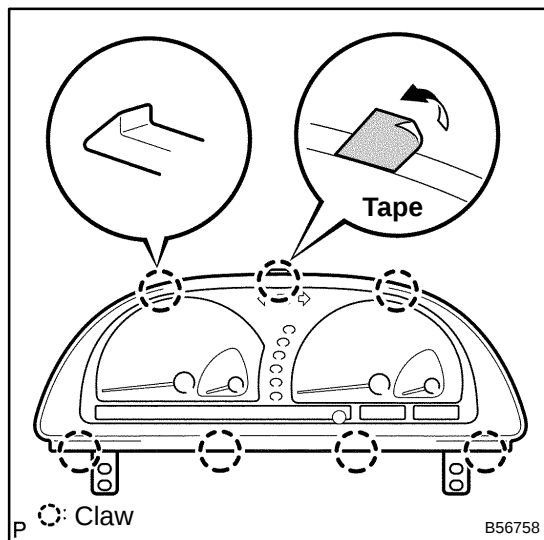
- COMPONENTS: See page 71-9.
- Installation is in the reverse order of removal.

1. REMOVE INSTRUMENT CLUSTER FINISH PANEL (SEE PAGE 71-16)



2. REMOVE COMBINATION METER ASSY

- Remove the 2 screws and disengage the 2 clips.
- Disconnect the connectors and remove the combination meter assy.

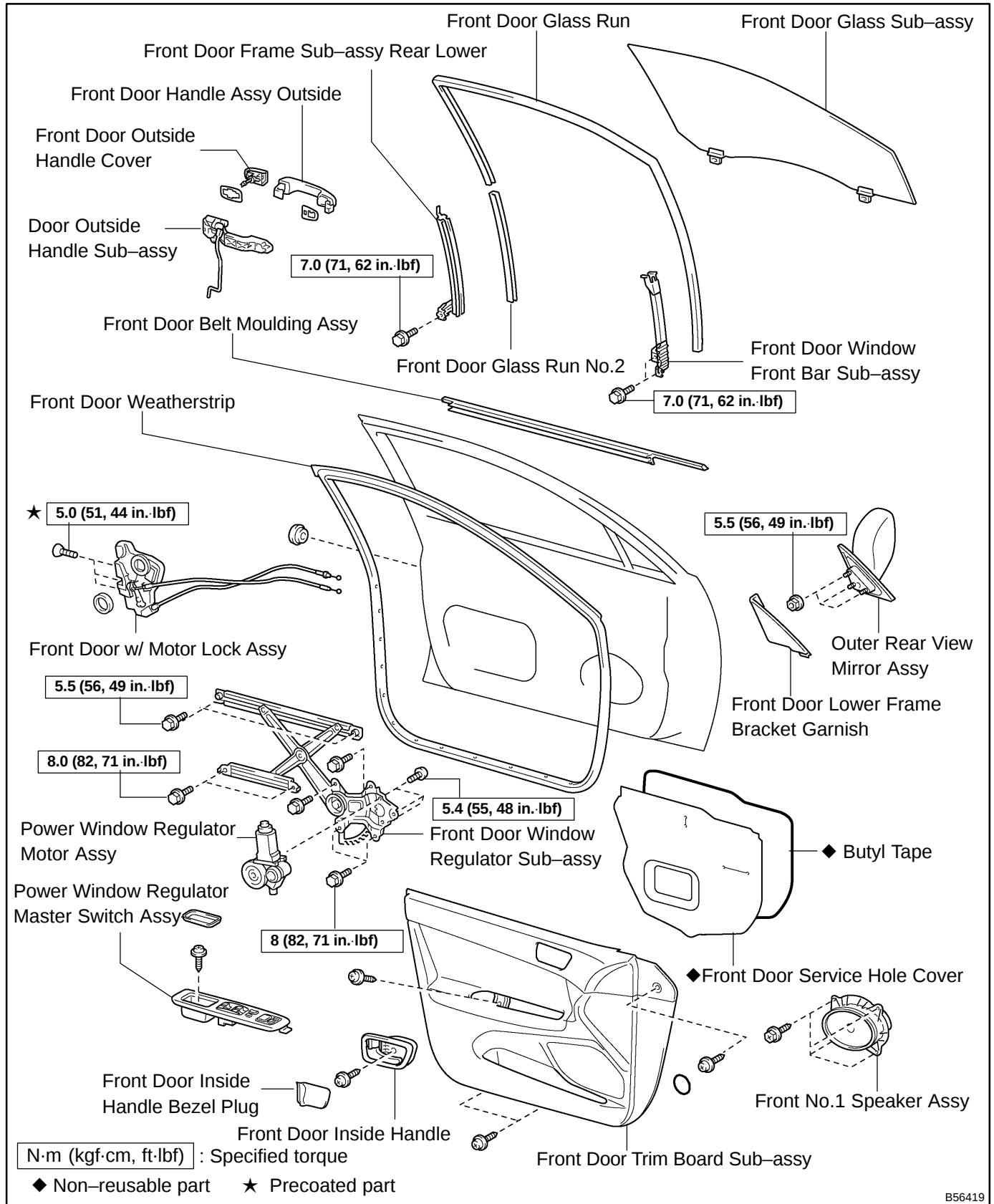


3. REMOVE COMBINATION METER GLASS

- Reverse the combination meter and remove the 2 screws.
- Remove the tape.
- Disengage the 7 claws and remove the combination meter glass.

FRONT DOOR COMPONENTS

75098-03

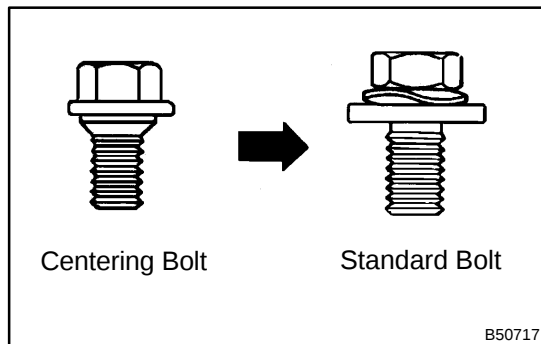


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ADJUSTMENT

HINT:

On the RH side, use in the same procedure as on the LH side.

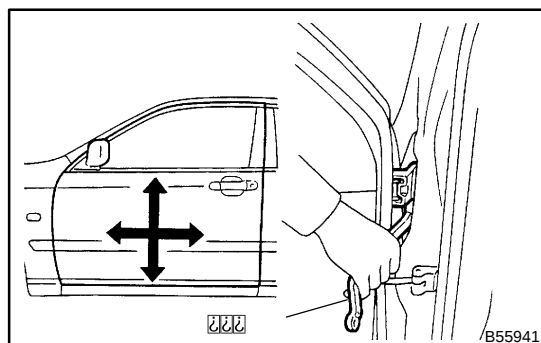
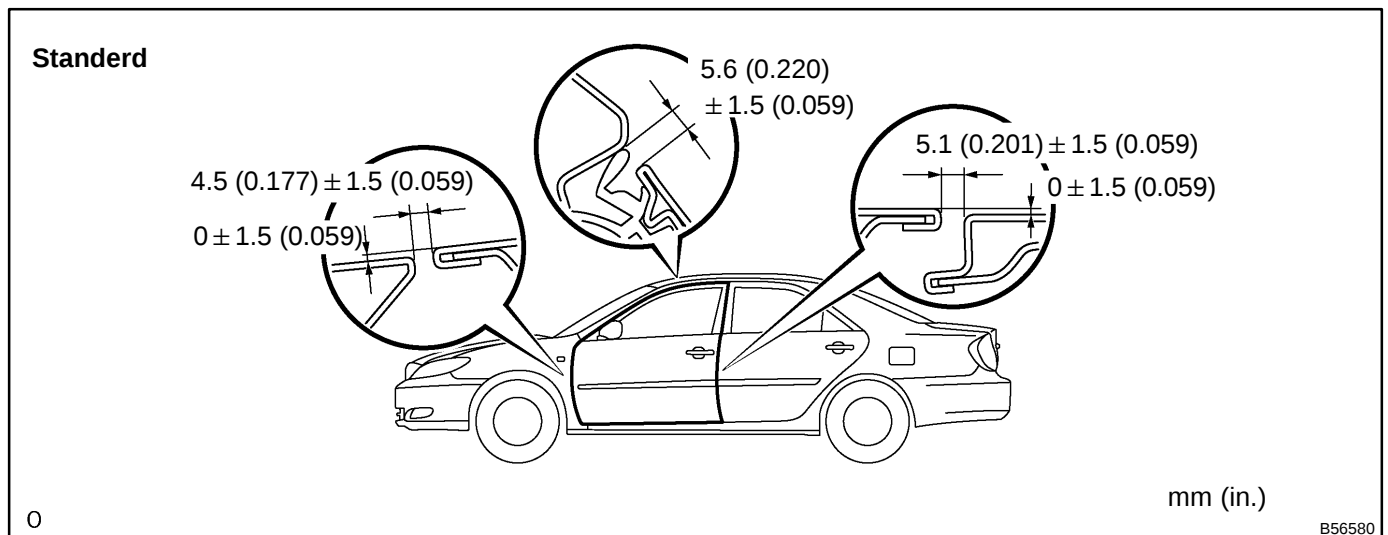


HINT:

Since the centering bolt is used as a door hinge set bolt, the door can not be adjusted with it on. Substitute a bolt with washer for the centering bolt.

1. INSPECT FRONT DOOR PANEL SUB-ASSY LH

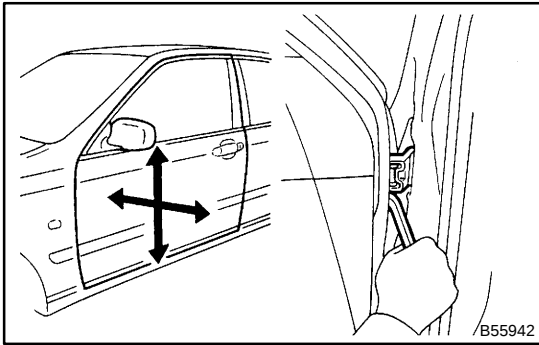
- (a) Check that the clearance is within the standard value.



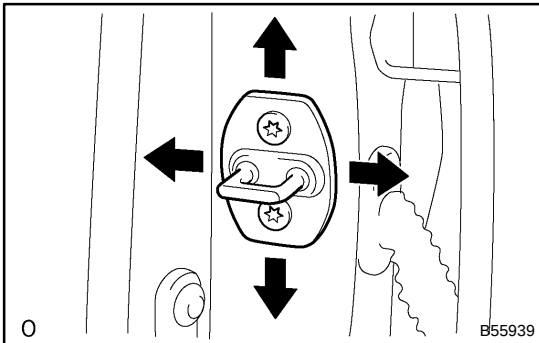
2. ADJUST FRONT DOOR PANEL SUB-ASSY LH

- (a) Using SST, adjust the door by loosening the body side hinge bolts. Forward / rearward and vertically.
- (b) Tighten the bolts after adjustment.

Torque: 26 N·m (265 kgf·cm, 19 ft·lbf)



- (c) Adjust the door by loosening the door side hinge bolts. Horizontally and vertically.
- (d) Tighten the bolts after adjustment.
Torque: 26 N·m (265 kgf·cm, 19 ft·lbf)

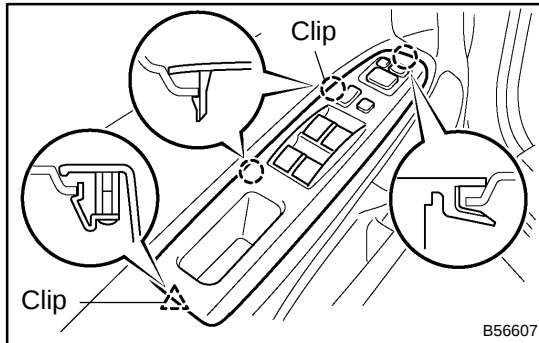


- (e) Adjust the striker position by slightly loosening the striker mounting screws and hitting the striker with a brass bar and hammer.
- (f) Tighten the striker mounting screws after adjustment.
Torque: 23 N·m (235 kgf·cm, 17 ft·lbf)

OVERHAUL

HINT:

- The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.
- On the RH side, use in the same procedure as on the LH side.

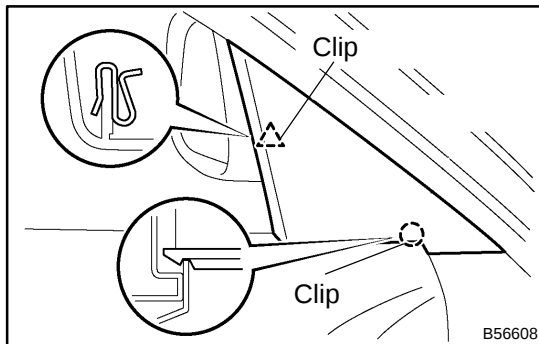


1. REMOVE POWER WINDOW REGULATOR MASTER SWITCH ASSY

- Remove the armrest base cover lower.
- Remove the screw.
- Using a screwdriver, remove the master switch then disconnect the connector.

HINT:

Tape the screwdriver tip before use.

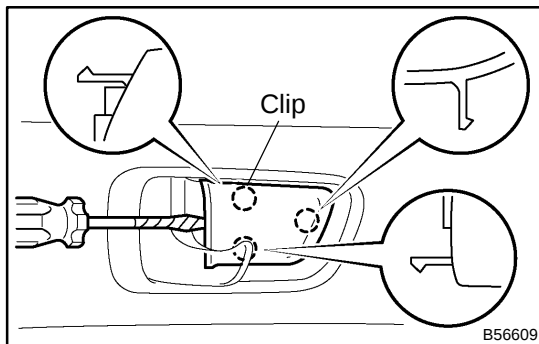


2. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH LH

- Using a screwdriver, remove the lower frame bracket garnish.

HINT:

Tape the screwdriver tip before use.

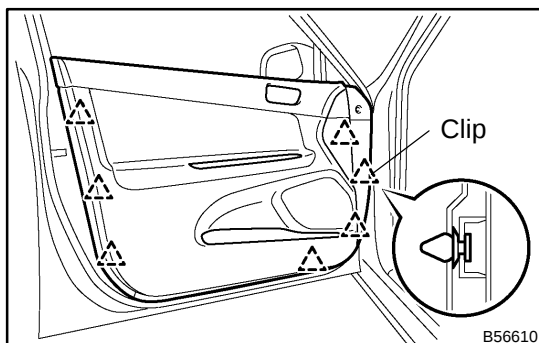


3. REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG LH

- Using a screwdriver, remove the inside handle bezel plug.

HINT:

Tape the screwdriver tip before use.



4. REMOVE FRONT DOOR TRIM BOARD SUB-ASSY LH

- Remove the hole plug.
- Remove the 5 screws.
- Remove the clip.
- Using a screwdriver, remove the trim board.

HINT:

Tape the screwdriver tip before use.

- Remove the inside handle then disconnect the 2 cables from the door lock.

5. REMOVE FRONT DOOR SERVICE HOLE COVER LH

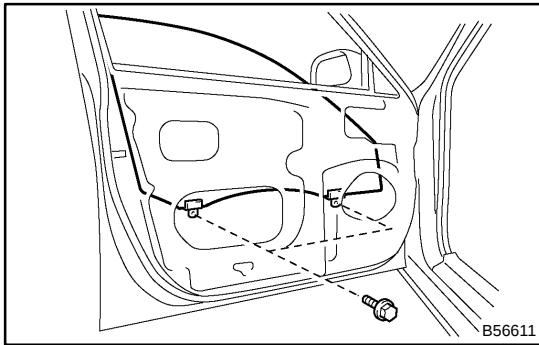
- (a) Disconnect each connector and remove the service hole cover.

NOTICE:

Remove the remaining tape on the body side.

6. REMOVE FRONT NO.1 SPEAKER ASSY

- (a) Disconnect the connector.
(b) Remove the 4 bolts and front No.1 speaker.

**7. REMOVE FRONT DOOR GLASS SUB-ASSY LH****HINT:**

Insert a shop rag inside the door panel to prevent scratching the glass.

- (a) Open the door glass until the bolts appear in the service hole.
(b) Remove the 2 bolts and door glass.

NOTICE:

Do not damage the door glass.

HINT:

Pull the glass upward to remove it.

8. REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSY LH

- (a) Disconnect the connector.
(b) Loosen the temporarily installed bolt.

NOTICE:

When the temporarily installed bolt is removed, the window regulator might drop and be deformed.

- (c) Remove the 5 bolts and window regulator.

9. REMOVE POWER WINDOW REGULATOR MOTOR ASSY LH

- (a) Using a torx® wrench (T25), remove the 3 screws and the motor assembly.

10. REMOVE FRONT DOOR GLASS RUN LH**11. REMOVE FRONT DOOR GLASS RUN NO.2****12. REMOVE FRONT DOOR FRAME SUB-ASSY FRONT LOWER LH**

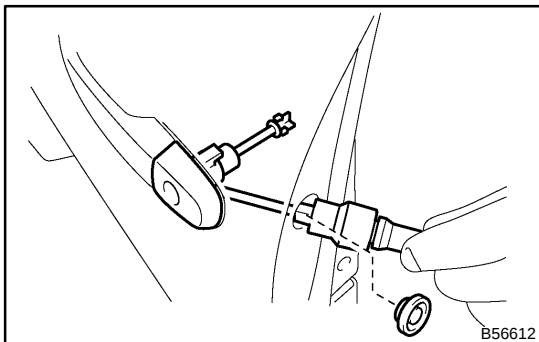
- (a) Remove the 2 screws and frame front lower.

Torque: 7.0 N·m (71 kgf·cm, 62 in.·lbf)

13. REMOVE FRONT DOOR FRAME SUB-ASSY REAR LOWER LH

- (a) Remove the screw and frame rear lower.

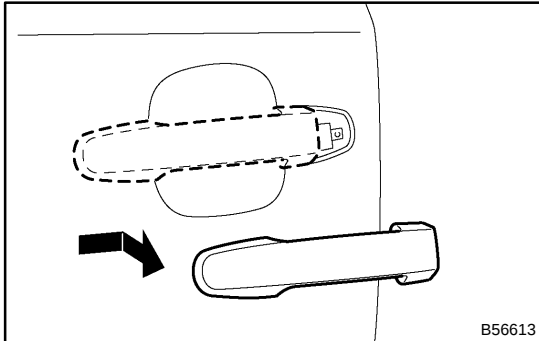
Torque: 7.0 N·m (71 kgf·cm, 62 in.·lbf)

**14. REMOVE FRONT DOOR OUTSIDE HANDLE COVER LH**

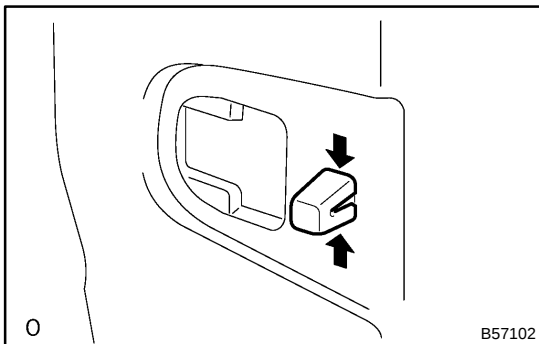
- (a) Remove the hole plug
(b) Using a torx® wrench (T30), loosen the screw and remove the outside handle cover with the door lock key cylinder installed.

15. REMOVE FRONT DOOR W/MOTOR LOCK ASSY LH

- (a) Disconnect the connector.
- (b) Using a torx® wrench (T30), remove the 3 screws and the door motor.

**16. REMOVE FRONT DOOR HANDLE ASSY OUTSIDE LH**

- (a) Pushing the outside handle in the arrow mark direction in the illustration, remove the outside handle.

**17. REMOVE DOOR OUTSIDE HANDLE SUB-ASSY LH**

- (a) Using a torx® wrench (T30), loosen the screw.
- (b) Using pliers, disengage the clips and remove the outside handle, as shown in the illustration.

NOTICE:

Be sure to remove the outside handle together with the clips, because the clips will be damaged if the clips remain attached to the door panel.

18. REMOVE FRONT DOOR WEATHERSTRIP LH

- (a) Using a screwdriver, remove the door weatherstrip.

HINT:

Tape the screwdriver tip before use.

19. REMOVE OUTER REAR VIEW MIRROR ASSY LH

- (a) Remove the 3 nuts.

Torque: 5.5 N·m (56 kgf·cm, 49 in·lbf)

- (b) Disconnect the connector then remove the mirror.

20. REMOVE FRONT DOOR BELT MOULDING ASSY LH(See page 76-12)**21. INSTALL DOOR OUTSIDE HANDLE SUB-ASSY LH**

- (a) Using a torx® wrench (T30), install the handle.

Torque: 4.0 N·m (41 kgf·cm, 37 in·lbf)

22. INSTALL FRONT DOOR W/MOTOR LOCK ASSY LH

- (a) Install a new door lock wire harness packing.

NOTICE:

- If reusing the removed lock with rear door motor, the packing in the connecting part should be replaced with a new one.
 - Be careful that grease and dirt will not stick to the packing surface in the connecting part.
 - Reusing the removed packing or using a damaged packing will cause water to penetrate through the connecting part, and it will result in a malfunction of the door lock.
- (b) Insert the outside handle link into the door lock with front door motor, and then set it to the door panel.

NOTICE:

Make sure that the outside handle link is securely engaged with the lock assembly.

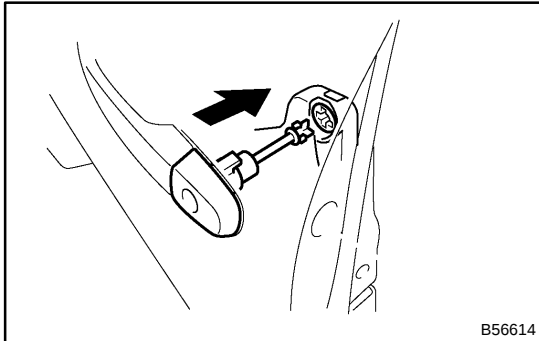
- (c) Apply adhesive to the threads of the 3 screws.

Adhesive:

Part No. 08833-00070, THREE BOND 1324 or equivalent

- (d) Using a torx® wrench (T30), install the door lock with the 3 screws.

Torque: 5.0 N·m (51kgf·cm, 44 in·lbf)



23. INSTALL FRONT DOOR OUTSIDE HANDLE COVER LH

- (a) Using a torx® wrench (T30), install the outside handle cover with the screw.

24. INSTALL POWER WINDOW REGULATOR MOTOR ASSY LH (W/ JAM PROTECTION)

- (a) Apply MP grease to the sliding and rotating parts of the window regulator.
 (b) If the jam protection dose not function properly, perform the following procedure.

HINT:

It is necessary to reset the power window motor (in the initial position for the limit switch) when separating the window regulator from the power window motor or operating the window regulator with the door glass not installed.

- (1) Install the power window motor with the 3 screws.

Torque: 5.4 N·m (55kgf·cm, 48 in·lbf)

HINT:

Place the matchmarks on the power window motor and window regulator gear.

- (2) Connect the power window motor and power window switch to the wire harness of the vehicle.
 (3) Turn the ignition switch ON and operate the power window switch to idle the power window motor in the up side direction for more than 6 rotations or less than 10 rotations (4 seconds or more).
 (4) Assemble the power window motor and regulator.

HINT:

- Install the motor when the regulator arm is below the middle point.
 - Align the matchmarks on the power window motor and window regulator gear when installing the power window motor.
- (5) Assemble the power window regulator and door glass.

HINT:

Never rotate the motor to the down direction until the installation of the window glass is completed.

25. INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSY LH

- (a) Install the temporarily installed bolt securely.
 (b) Install the temporarily installed bolt to the window regulator to the door panel, and install the front door window regulator temporarily.
 (c) Tighten the 5 bolts and the temporarily installed bolt.

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

- (d) Connect the connector.

26. INSTALL FRONT DOOR GLASS SUB-ASSY LH

- (a) Install the front door glass with the 2 bolts.

Torque: 5.5 N·m (56 kgf·cm, 49 in·lbf)

HINT:

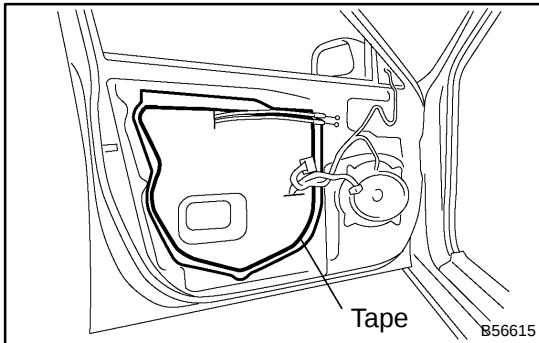
When the installation point of the glass does not match, adjust the regulator position by manual operation.

- (1) Connect the power window switch to the wire harness and turn the ignition switch ON.

- (2) Repeat UP and DOWN operation several times manually.
- (3) Check if AUTO UP → AUTO DOWN operates in the automatic operation.

HINT:

- Note that the jam protection function does not operate just after resetting.
- Reset the regulator again when performing the reverse operating after closing the window fully by AUTO UP operation.

27. INSPECT POWER WINDOW FUNCTION**28. INSTALL FRONT DOOR SERVICE HOLE COVER LH**

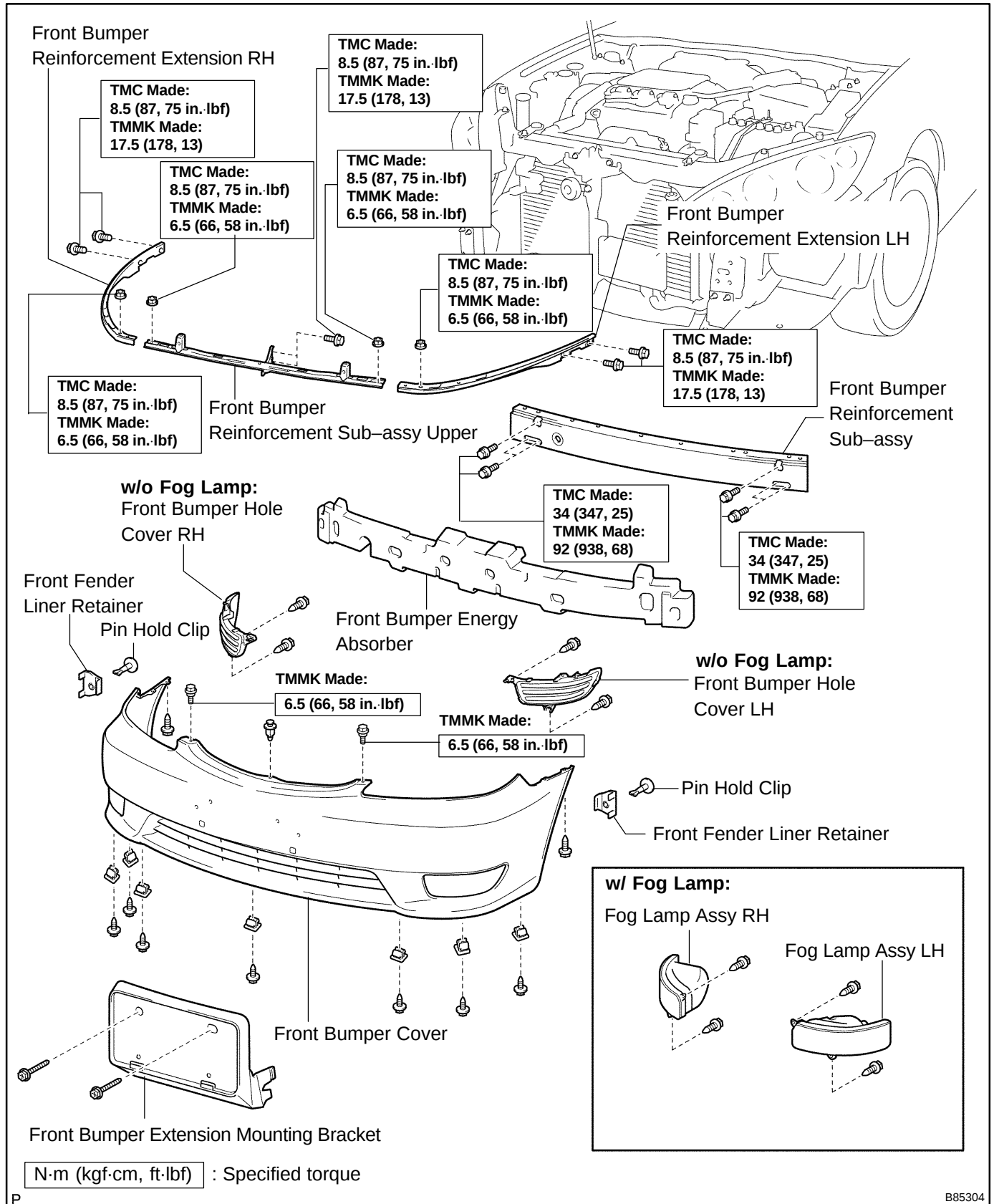
- (a) Install a new service hole cover to the door panel.

HINT:

- When installing the service hole cover, pull out the links and connectors through the service hole cover.
- There should be no wrinkles or folds on the service hole cover after attaching it.
- After attaching the service hole cover, sealing condition should be confirmed.

FRONT BUMPER COMPONENTS

761DL-01

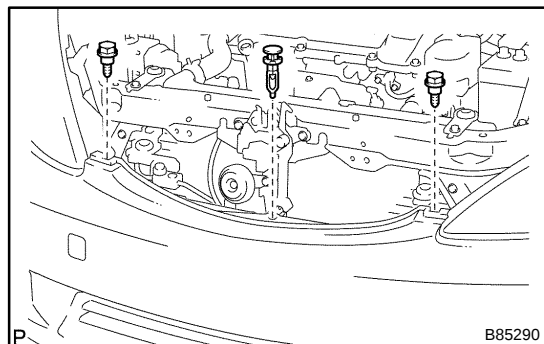


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REPLACEMENT

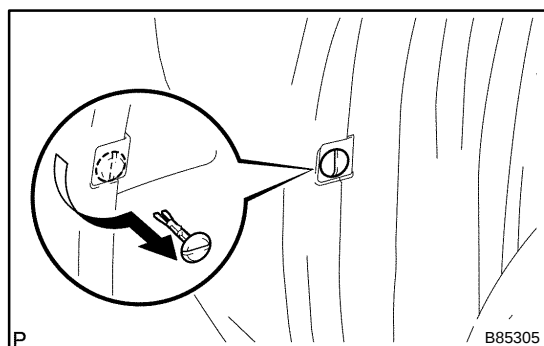
HINT:

- Installation is in the reverse order of removal.
- COMPONENTS: SEE PAGE 76-1.



1. REMOVE FRONT BUMPER ASSY

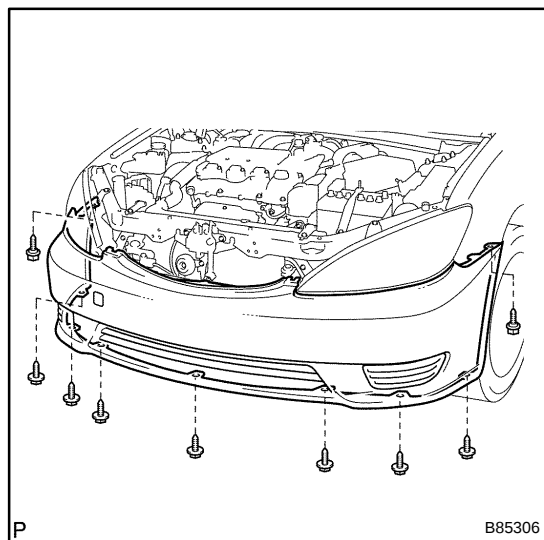
- (a) Remove the clip and the 2 bolts.



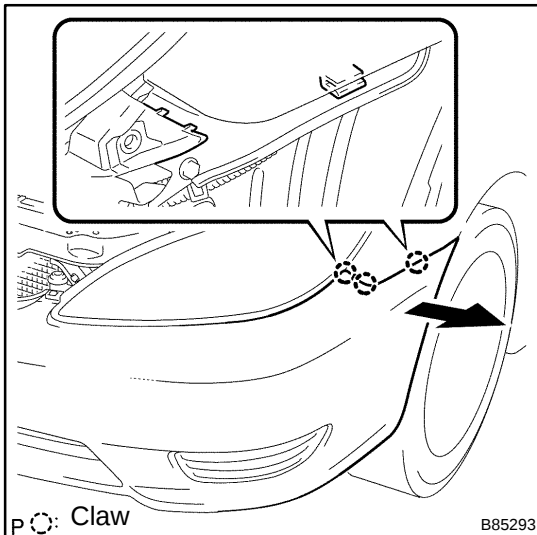
- (b) Turn the pin hold clip 90° as shown in the illustration and remove it. (LH side)

HINT:

Remove the RH side by following the same procedure as for the LH side.



- (c) Remove the 9 screws.

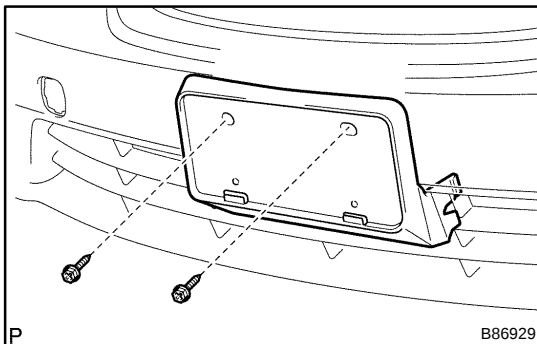


- (d) Disengage the 3 claws by pulling the left side of the front bumper cover in the direction shown by the arrow. (LH side)

HINT:

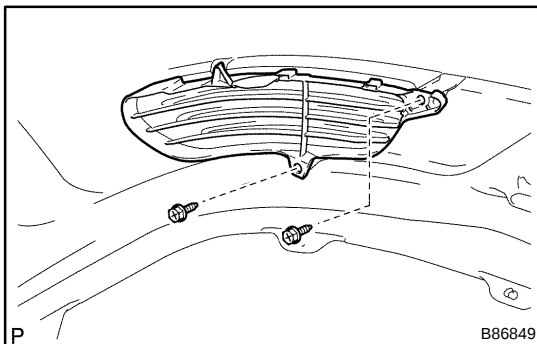
Disengage the RH side by following the same procedure as for the LH side.

- (e) Disconnect the fog lamp connector (w/ fog lamp) and remove the front bumper assy.



2. REMOVE FRONT BUMPER EXTENSION MOUNTING BRACKET

- (a) Remove the 2 screws and the bumper extension mounting bracket.



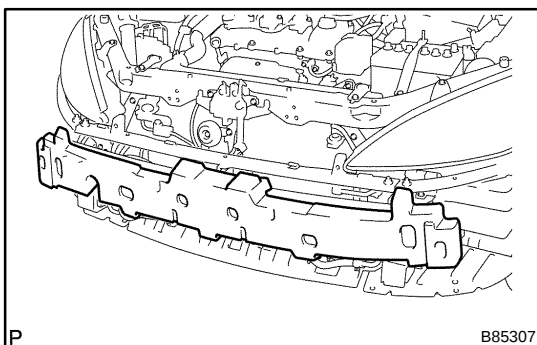
3. REMOVE FRONT BUMPER HOLE COVER LH (W/O FOG LAMP)

- (a) Remove the 2 screws and the front bumper hole cover LH.

4. REMOVE FRONT BUMPER HOLE COVER RH (W/O FOG LAMP)

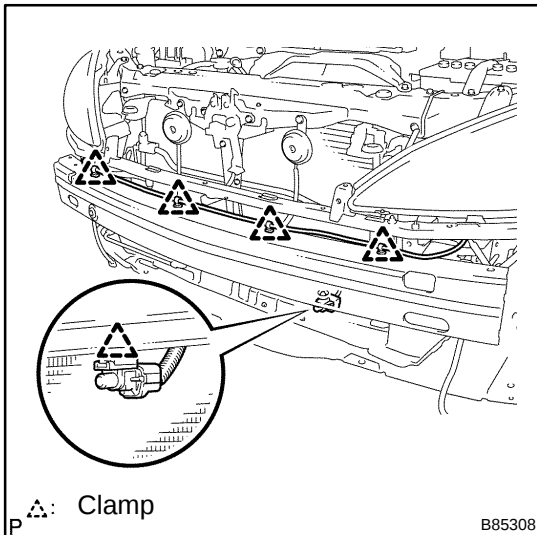
5. REMOVE FOG LAMP ASSY LH (W/ FOG LAMP) (SEE PAGE 65-16)

6. REMOVE FOG LAMP ASSY RH (W/ FOG LAMP) (SEE PAGE 65-16)



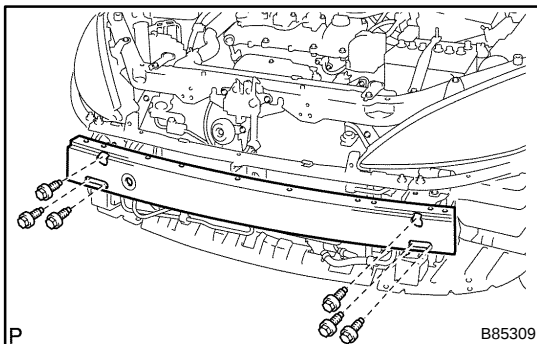
7. REMOVE FRONT BUMPER ENERGY ABSORBER

- (a) Remove the front bumper energy absorber.

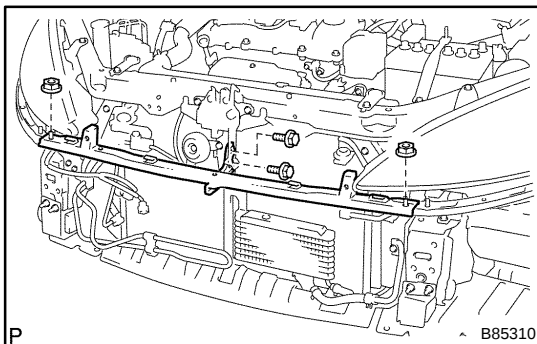


8. REMOVE FRONT BUMPER REINFORCEMENT SUB-ASSY

- (a) Disengage the 5 clamps.

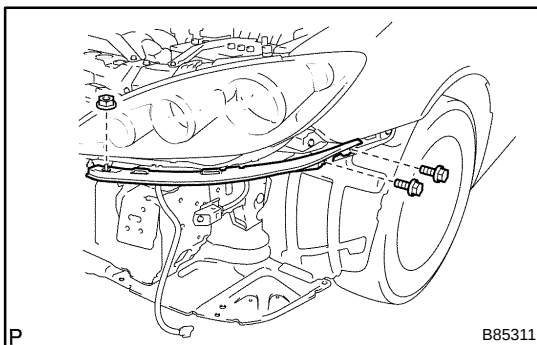


- (b) Remove the 6 bolts and the front bumper reinforcement sub-assy.



9. REMOVE FRONT BUMPER REINFORCEMENT SUB-ASSY UPPER

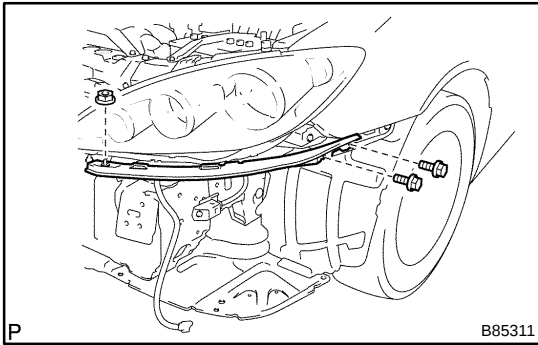
- (a) Remove the 2 bolts and the 2 nuts.
- (b) Remove the front bumper reinforcement sub-assy upper.



10. REMOVE FRONT BUMPER REINFORCEMENT EXTENSION LH

- (a) Remove the 2 bolts and the nut.
- (b) Remove the front bumper reinforcement extension LH.

11. REMOVE FRONT BUMPER REINFORCEMENT EXTENSION RH



12. INSTALL FRONT BUMPER REINFORCEMENT EXTENSION LH

(a) TMC MADE:

- (1) Install the front bumper reinforcement extension LH with the 2 bolts and nut.

Torque:

Bolt: 8.5 N·m (87 kgf·cm, 75 in·lbf)

Nut: 8.5 N·m (87 kgf·cm, 75 in·lbf)

(b) TMMK MADE:

- (1) Install the front bumper reinforcement extension LH with the 2 bolts and nut.

Torque:

Bolt: 17.5 N·m (178 kgf·cm, 13 ft·lbf)

Nut: 6.5 N·m (66 kgf·cm, 58 in·lbf)

13. INSTALL FRONT BUMPER REINFORCEMENT EXTENSION RH

(a) TMC MADE:

- (1) Install the front bumper reinforcement extension RH with the 2 bolts and nut.

Torque:

Bolt: 8.5 N·m (87 kgf·cm, 75 in·lbf)

Nut: 8.5 N·m (87 kgf·cm, 75 in·lbf)

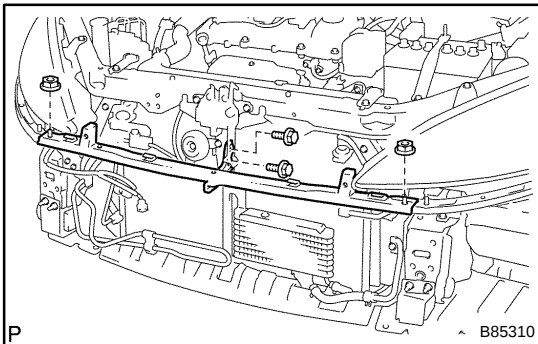
(b) TMMK MADE:

- (1) Install the front bumper reinforcement extension RH with the 2 bolts and nut.

Torque:

Bolt: 17.5 N·m (178 kgf·cm, 13 ft·lbf)

Nut: 6.5 N·m (66 kgf·cm, 58 in·lbf)



14. INSTALL FRONT BUMPER REINFORCEMENT SUB-ASSY UPPER

(a) TMC MADE:

- (1) Install the front bumper reinforcement sub-assy upper with the 2 bolts and 2 nuts.

Torque:

Bolt: 8.5 N·m (87 kgf·cm, 75 in·lbf)

Nut: 8.5 N·m (87 kgf·cm, 75 in·lbf)

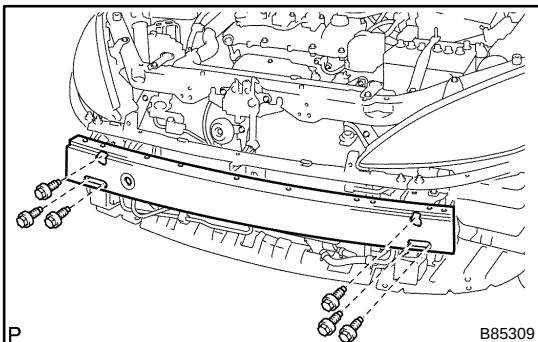
(b) TMMK MADE:

- (1) Install the front bumper reinforcement sub-assy upper with the 2 bolts and 2 nuts.

Torque:

Bolt: 17.5 N·m (178 kgf·cm, 13 ft·lbf)

Nut: 6.5 N·m (66 kgf·cm, 58 in·lbf)



15. INSTALL FRONT BUMPER REINFORCEMENT SUB-ASSY

(a) TMC MADE:

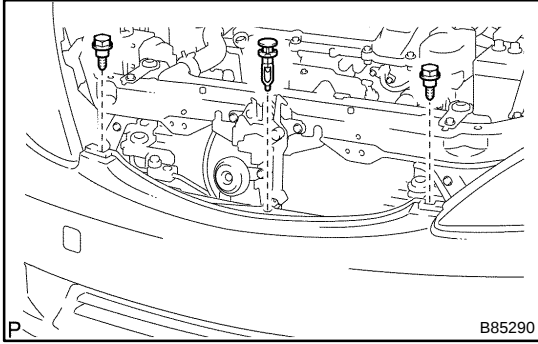
- (1) Install the front bumper reinforcement sub-assy with the 6 bolts.

Torque: 34 N·m (347 kgf·cm, 25 ft·lbf)

(b) TMMK MADE:

- (1) Install the front bumper reinforcement sub-assy with the 6 bolts.

Torque: 92 N·m (938 kgf·cm, 68 ft·lbf)

**16. INSTALL FRONT BUMPER ASSY**

(a) TMMT MADE:

(1) Install the front bumper assy with the 2 bolts.

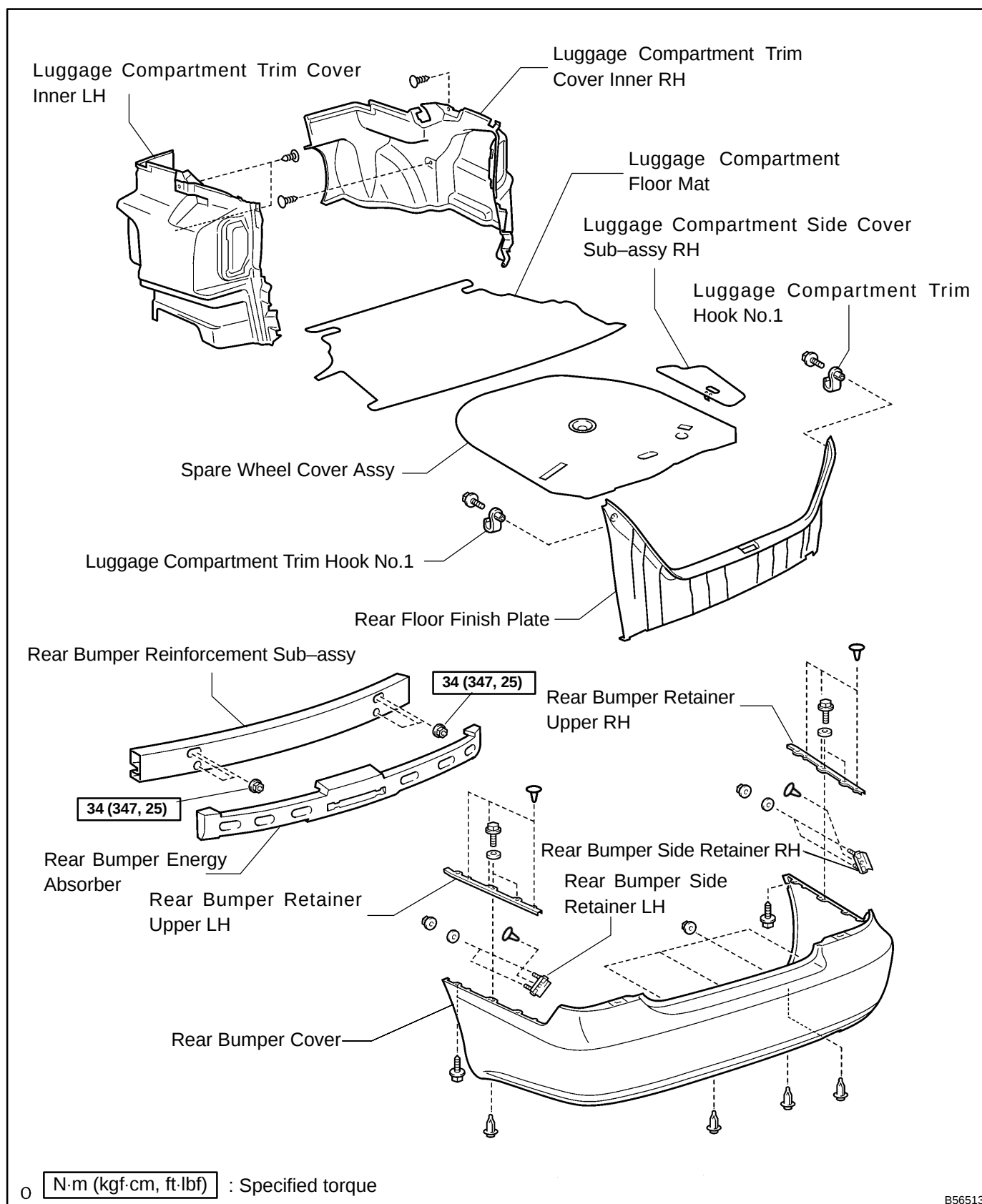
Torque: 6.5 N·m (66 kgf·cm, 58 in·lbf)

(2) Install the clip.

17. FOG LAMP AIMING ADJUSTMENT (W/ FOG LAMP) (SEE PAGE [65-17](#))

REAR BUMPER COMPONENTS

760BL-05

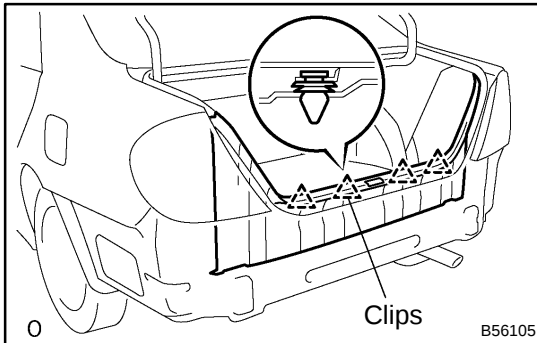


REPLACEMENT

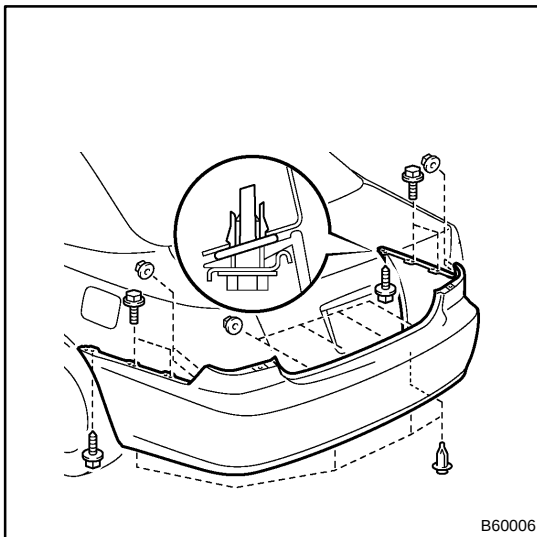
HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.

1. **REMOVE LUGGAGE COMPARTMENT FLOOR MAT**
2. **REMOVE SPARE WHEEL COVER ASSY**
3. **REMOVE LUGGAGE COMPARTMENT SIDE COVER SUB-ASSY RH**
4. **REMOVE LUGGAGE COMPARTMENT TRIM HOOK NO.1**
- (a) Remove the 2 bolts and luggage compartment trim hooks.



5. **REMOVE REAR FLOOR FINISH PLATE**
 - (a) Disengage the clips and remove the rear floor finish plate.
6. **REMOVE LUGGAGE COMPARTMENT TRIM COVER INNER RH**
 - (a) Using a clip remover, remove the 2 clips and luggage compartment trim cover inner.
7. **REMOVE LUGGAGE COMPARTMENT TRIM COVER INNER LH**



8. **REMOVE REAR BUMPER COVER**
 - (a) Remove the 8 nuts, 4 bolts. (Inside)
 - (b) Remove the 2 screws, 4 clips and rear bumper cover. (outside)
 - (c) Disengage the rear bumper seal bracket and remove the rear bumper cover.

9. **REMOVE REAR BUMPER SIDE RETAINER RH**
 - (a) Remove the clip and rear bumper side retainer. (Only TMC made)
 - (b) Remove the rivet and rear bumper side retainer. (Only TMMK made)
 10. **REMOVE REAR BUMPER SIDE RETAINER LH**
 11. **REMOVE REAR BUMPER RETAINER UPPER RH**
 - (a) Remove the 3 clips and rear bumper retainer upper. (Only TMC made)
 - (b) Remove the 4 rivets and rear bumper retainer upper. (Only TMMK made)
 12. **REMOVE REAR BUMPER RETAINER UPPER LH**
 13. **REMOVE REAR BUMPER ENERGY ABSORBER**
 14. **REMOVE REAR BUMPER REINFORCEMENT SUB-ASSY**
 - (a) Remove the 6 nuts and rear bumper reinforcement.
 15. **INSTALL REAR BUMPER REINFORCEMENT SUB-ASSY**
 - (a) Install the front bumper reinforcement with 6 nuts.
- Torque: 34 N·m (347 kgf·cm, 25 ft·lbf)**

REAR SPOILER SUB-ASSY REPLACEMENT

760BK-05

HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without torque specification is a standard bolt (see page 03-2).
- When replacing the moulding, heat the body and spoiler using a heat light.

Heating temperature:

Item	Temperature
Body	40 to 60°C (104 to 140°F)
Spoiler	20 to 30°C (68 to 86°F)

NOTICE:

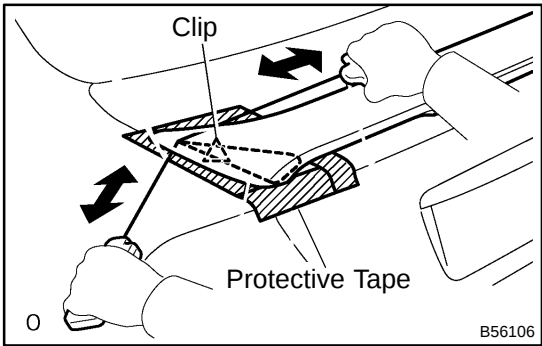
Do not heat the body and spoiler excessively.

1. REMOVE LUGGAGE COMPARTMENT DOOR COVER

- Remove the 15 clips and door cover.

2. REMOVE REAR SPOILER SUB-ASSY

- Remove the 2 nuts.
- Put protective tape onto the body.
- Using a heat light, heat the spoiler.

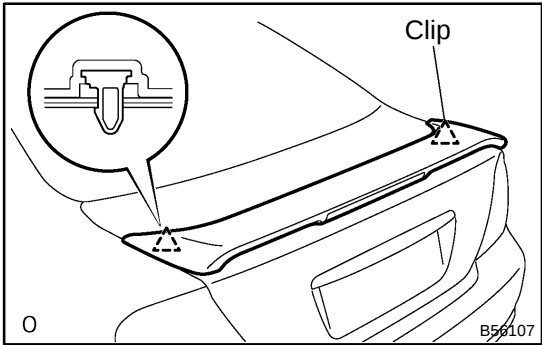


- Tie both piano wire ends to wooden blocks or similar objects.
 - Scrape the adhesive tape off by pulling the piano wire as shown in the illustration.
 - If reusing the rear spoiler, take care not to damage the rear spoiler.

NOTICE:

Do not damage the body.

- Disconnect the connector.



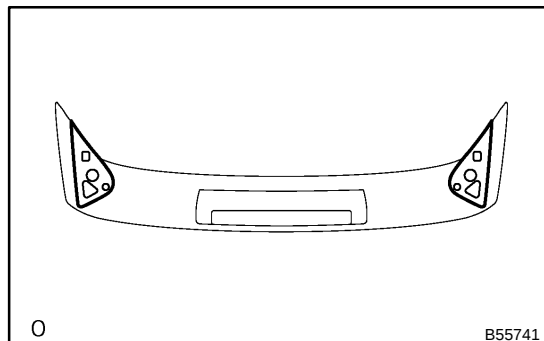
- Remove the 2 clips and rear spoiler.

3. REMOVE CENTER STOP LAMP ASSY (See page 65-22)

4. INSTALL REAR SPOILER SUB-ASSY

- Using a heat light.
- Remove the protective tape from the body.
- Wipe off the stains with cleaner.

- (d) Clean the rear spoiler (if reusing the spoiler).
- (1) Using a heat light, heat the spoiler.
 - (2) Remove the adhesive tape from the rear spoiler.
 - (3) Wipe off the stains with cleaner.



- (4) Install new adhesive tape to the rear spoiler as shown in the illustration.
- (e) Using a heat light, heat the body and spoiler.
- (f) Install the rear spoiler with 2 nuts.