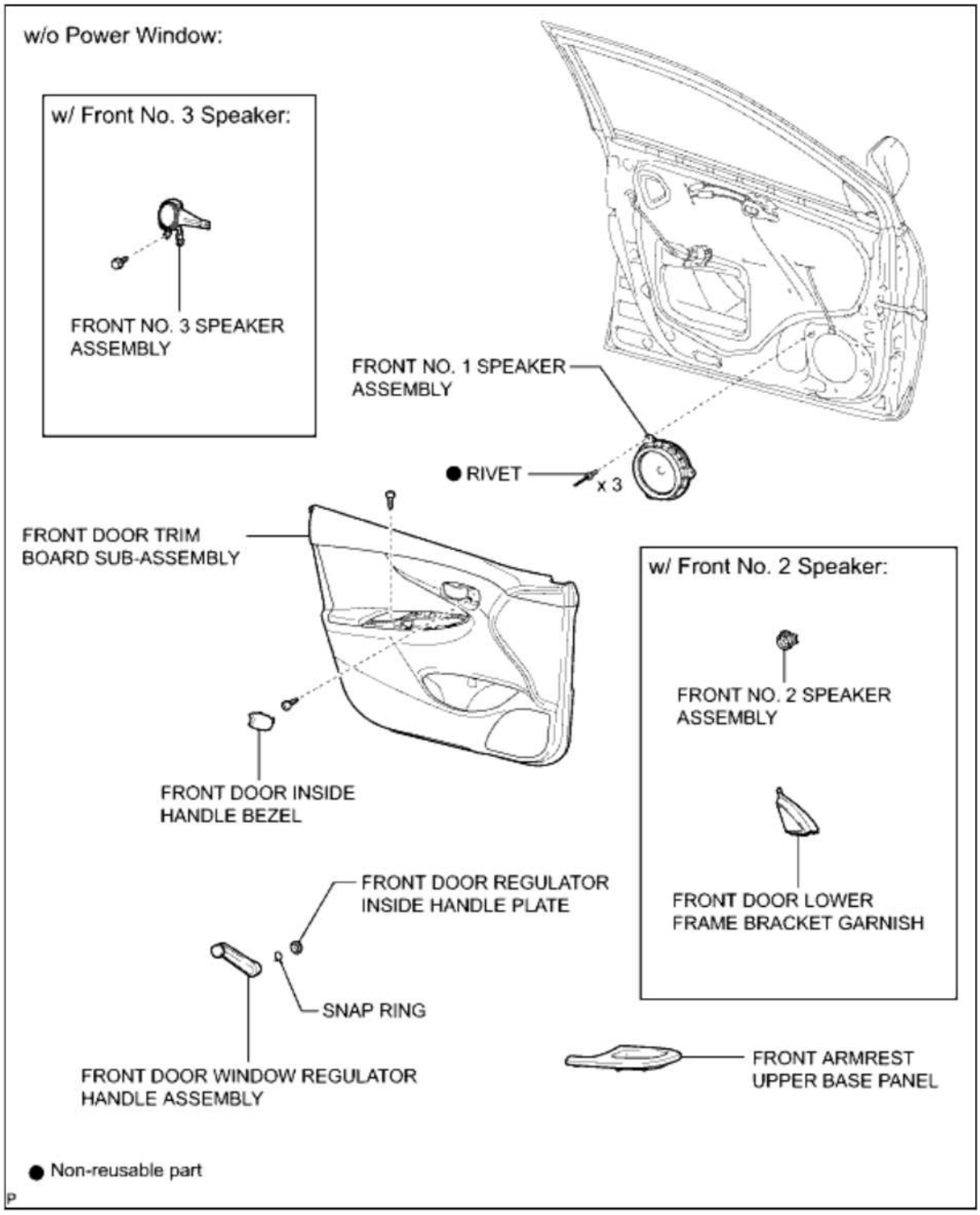
Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAO00GX
Title: AUDIO / VIDEO: FRONT DOOR SPEAKER: COMPONENTS (2010 Corolla)		

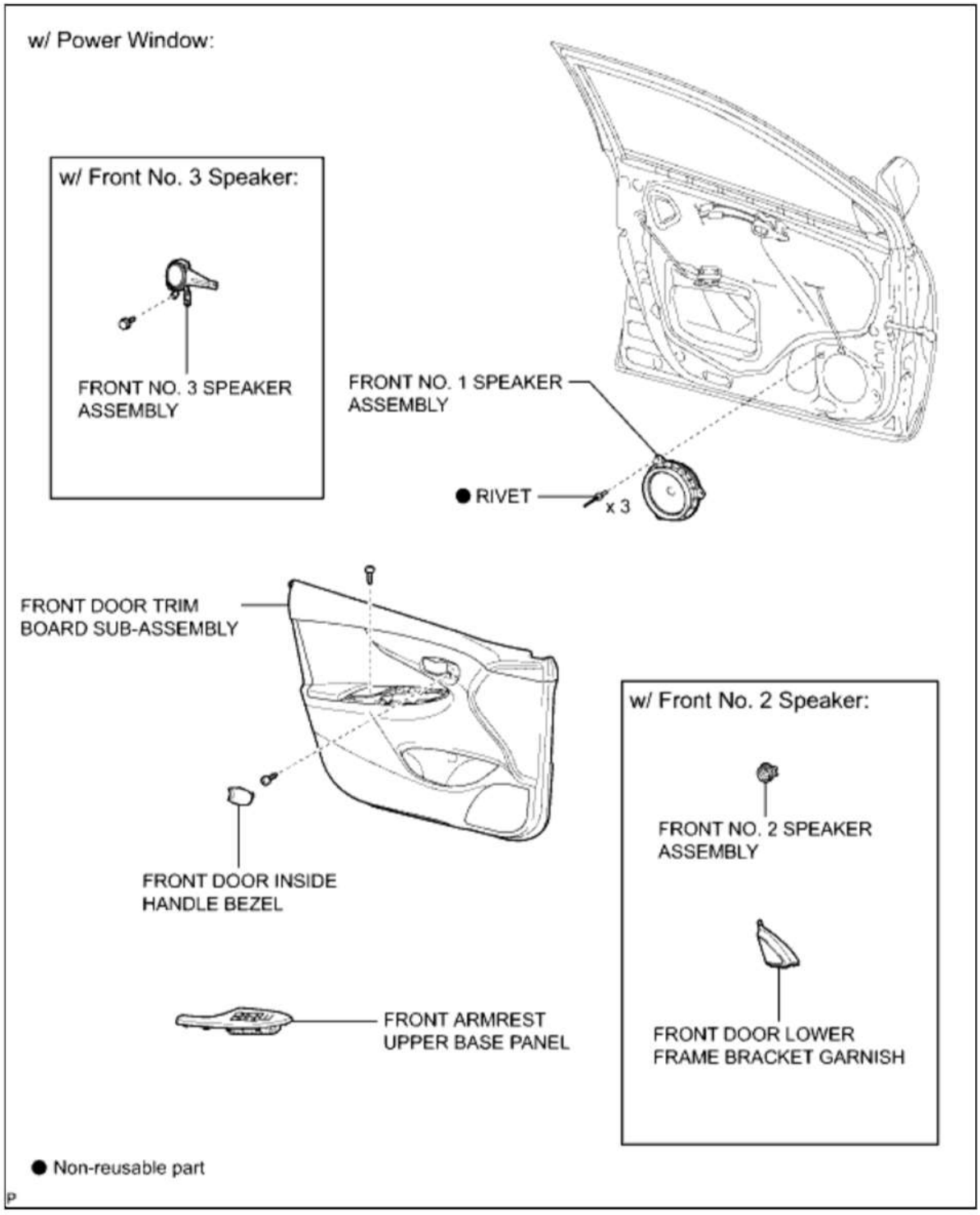
COMPONENTS

ILLUSTRATION



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ILLUSTRATION



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Last Modified: 3-10-2010	6.4 G	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020Q2025X
Title: AUDIO / VIDEO: FRONT DOOR SPEAKER: ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. INSPECT FRONT NO. 1 SPEAKER

HINT:

Remove interior parts so that the front No. 1 speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the front No. 1 speaker.

(b) Visually check the speaker.

OK:

The cone paper of the speaker is not torn.

If the result is not as specified, replace the front No. 1 speaker.

(c) Speaker resistance check

(1) Disconnect the front No. 1 speaker connector.

(2) Measure the resistance between the terminals of the speaker.

Standard Resistance:

for 8 Speakers

Except for 8 Speakers

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	Always	1.5 to 2.2 Ω

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	Always	3.2 to 4.8 Ω

If the result is not as specified, replace the front No. 1 speaker.

2. INSPECT FRONT NO. 2 SPEAKER (for 6 Speakers)

HINT:

Remove interior parts so that the front No. 2 speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the front No. 2 speaker.

(b) Visually check the speaker.

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OK:

The cone paper of the speaker is not torn.

If the result is not as specified, replace the front No. 2 speaker.

3. INSPECT FRONT NO. 3 SPEAKER (for 8 Speakers)

HINT:

Remove interior parts so that the front No. 3 speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the front No. 3 speaker.

(b) Visually check the speaker.

OK:

The cone paper of the speaker is not torn.

If the result is not as specified, replace the front No. 3 speaker.

(c) Speaker resistance check

(1) Disconnect the front No. 3 speaker connector.

(2) Measure the resistance between the terminals of the speaker.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	Always	1.5 to 2.5 Ω

If the result is not as specified, replace the front No. 3 speaker.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAP00GX
Title: AUDIO / VIDEO: FRONT DOOR SPEAKER: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE FRONT DOOR WINDOW REGULATOR HANDLE ASSEMBLY (w/o Power Window)

INFO

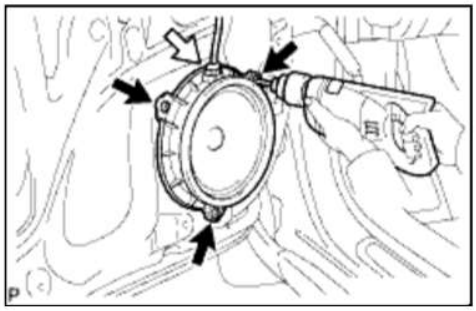
2. REMOVE FRONT DOOR INSIDE HANDLE BEZEL INFO

3. REMOVE FRONT ARMREST UPPER BASE PANEL (w/o Power Window) INFO

4. REMOVE FRONT ARMREST UPPER BASE PANEL (w/ Power Window) INFO

5. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY INFO

6. REMOVE FRONT NO. 1 SPEAKER ASSEMBLY



(a) Disconnect the connector.

(b) Using a drill bit with a diameter of less than 4 mm (0.158 in.), drill out the 3 rivet heads and remove the front No. 1 speaker assembly.

NOTICE:

- Do not touch the cone part of the speaker.
- Do not drill the rivet at an angle as this will cause damage to the drill and drill hole. Line up the drill and rivet, and carefully drill out the rivet head.
- Be careful as the cut rivet will be very hot.

(c) Continue drilling and push out the remaining rivet fragments.

(d) Using a vacuum cleaner, remove the rivet fragments and shavings from the inside of the door.

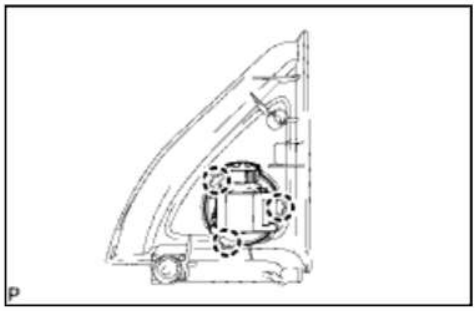
7. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH (w/ Front No. 2 Speaker)

INFO

8. REMOVE FRONT NO. 2 SPEAKER ASSEMBLY (w/ Front No. 2 Speaker)

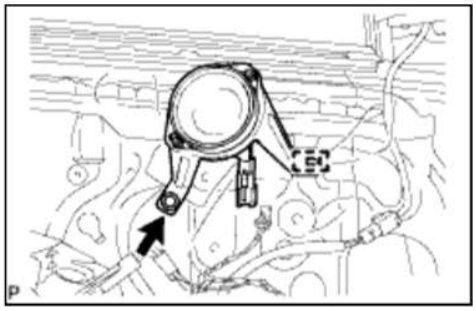
(a) Disengage the 3 claws and remove the front No. 2 speaker assembly.

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9. REMOVE FRONT NO. 3 SPEAKER ASSEMBLY (w/ Front No. 3 Speaker)

(a) Disconnect the connector.



(b) Remove the screw.

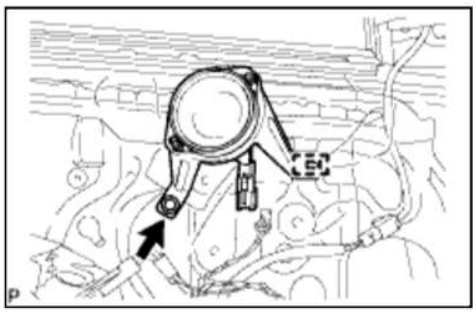
(c) Disengage the clamp and remove the front No. 3 speaker assembly.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAN00GX
Title: AUDIO / VIDEO: FRONT DOOR SPEAKER: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL FRONT NO. 3 SPEAKER ASSEMBLY (w/ Front No. 3 Speaker)

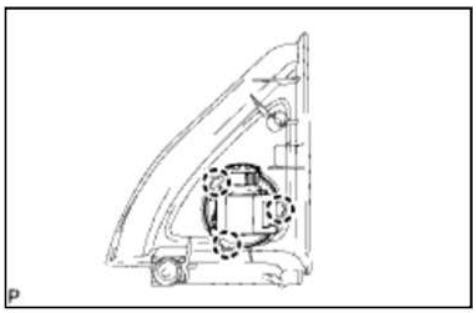


(a) Engage the clamp and install the front No. 3 speaker assembly.

(b) Install the screw.

(c) Connect the connector.

2. INSTALL FRONT NO. 2 SPEAKER ASSEMBLY (w/ Front No. 2 Speaker)



(a) Engage the 3 claws and install the front No. 2 speaker assembly.

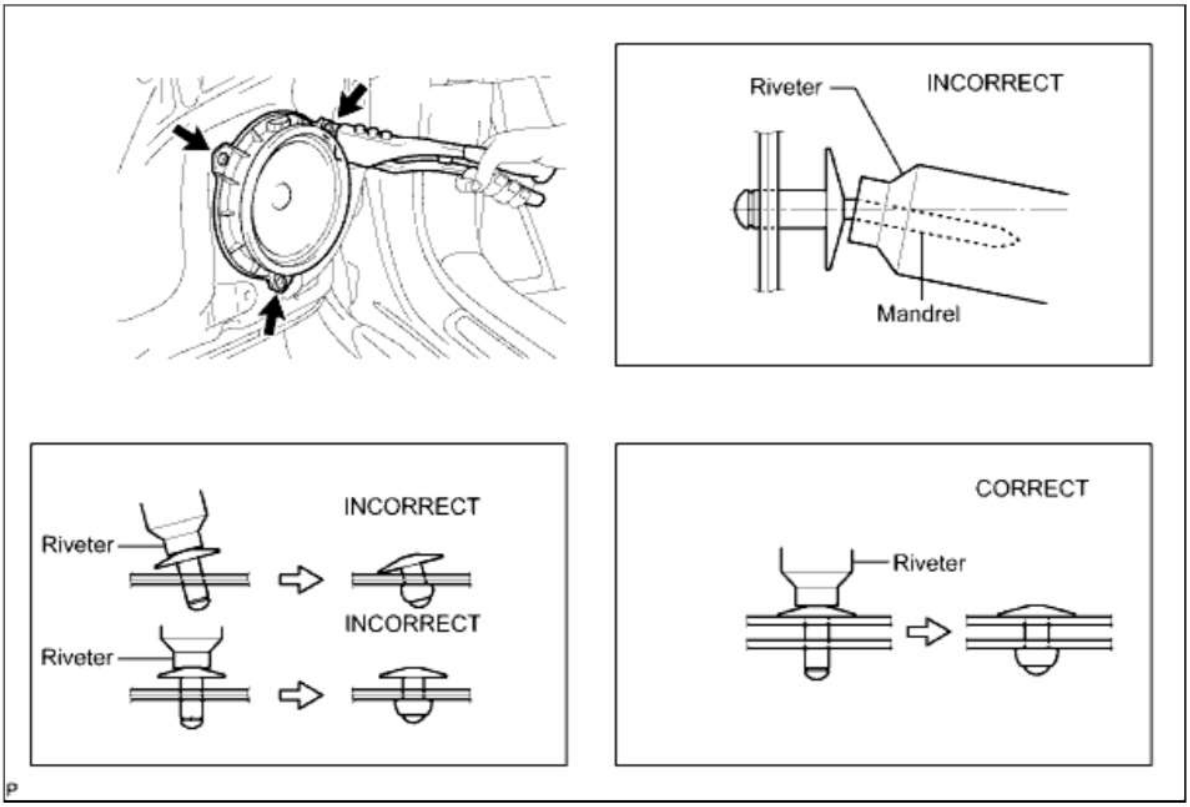
3. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH (w/ Front No. 2 Speaker)

INFO

4. INSTALL FRONT NO. 1 SPEAKER ASSEMBLY

(a) Using an air riveter or hand riveter, install the front No. 1 speaker assembly with 3 new rivets.

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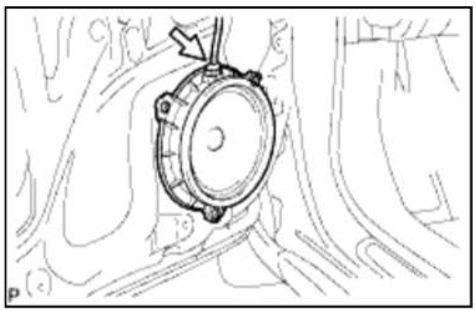


NOTICE:

- Do not pry the rivet with the riveter, as this will cause damage to the riveter and mandrel.
- Confirm that the rivet is seated properly against the moulding. Do not tilt the riveter when installing the rivet to the moulding. Do not leave any space between the rivets head and moulding.
- Do not leave any space between the moulding and door frame. Firmly hold the 2 items together while installing the rivet.

HINT:

If the rivet cannot be cut, pull it once and cut it.



(b) Connect the connector.

5. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY INFO

6. INSTALL FRONT ARMREST UPPER BASE PANEL (w/o Power Window) INFO

7. INSTALL FRONT ARMREST UPPER BASE PANEL (w/ Power Window) INFO

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8. INSTALL FRONT DOOR INSIDE HANDLE BEZEL INFO

9. INSTALL FRONT DOOR WINDOW REGULATOR HANDLE ASSEMBLY (w/o Power Window) INFO

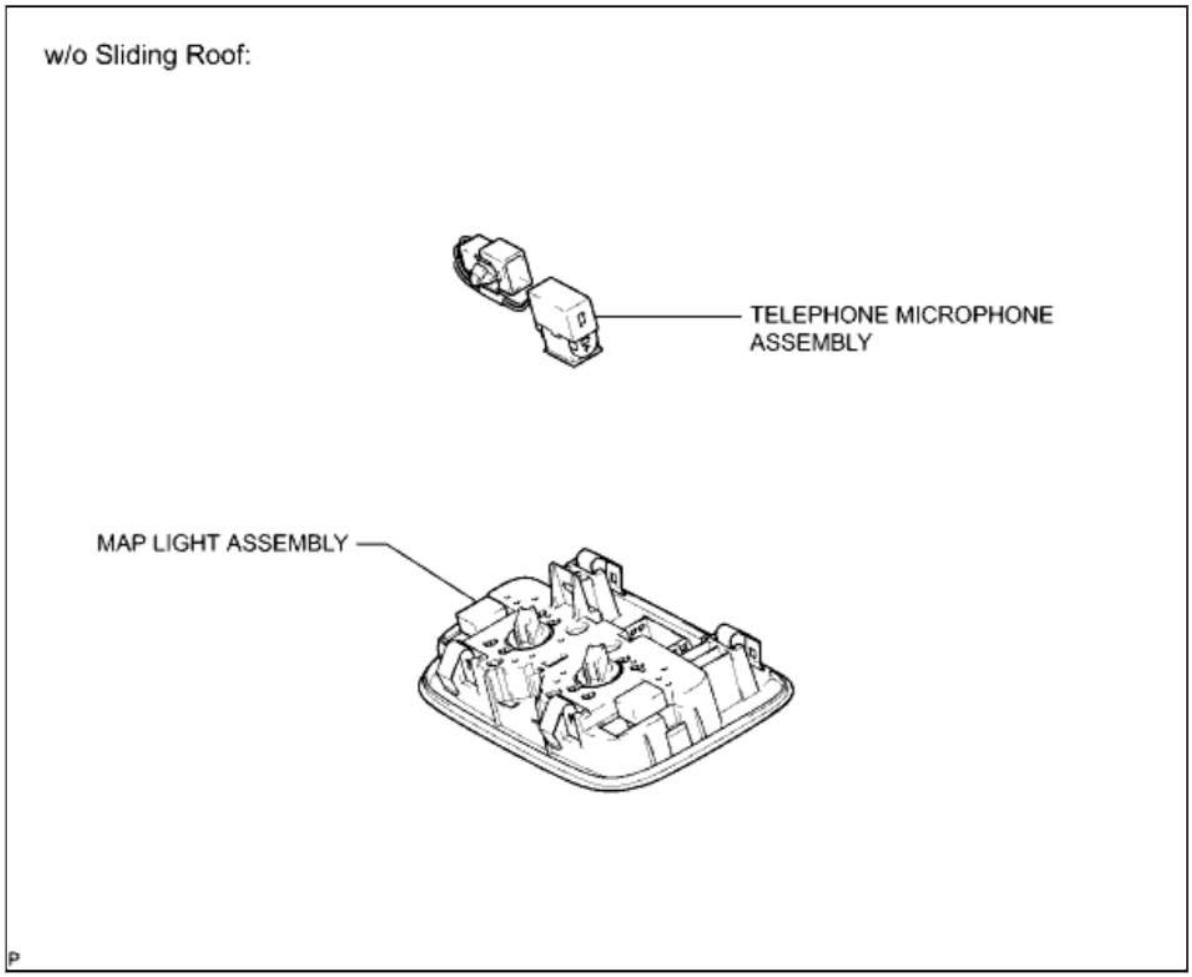


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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001Q0000SX
Title: AUDIO / VIDEO: MICROPHONE: COMPONENTS (2010 Corolla)		

COMPONENTS

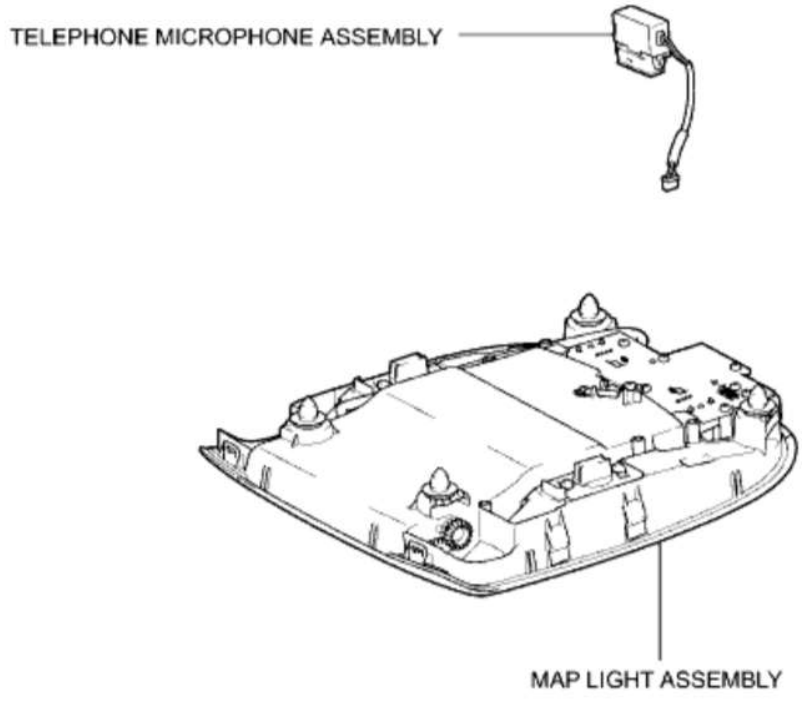
ILLUSTRATION



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w/ Sliding Roof:



P

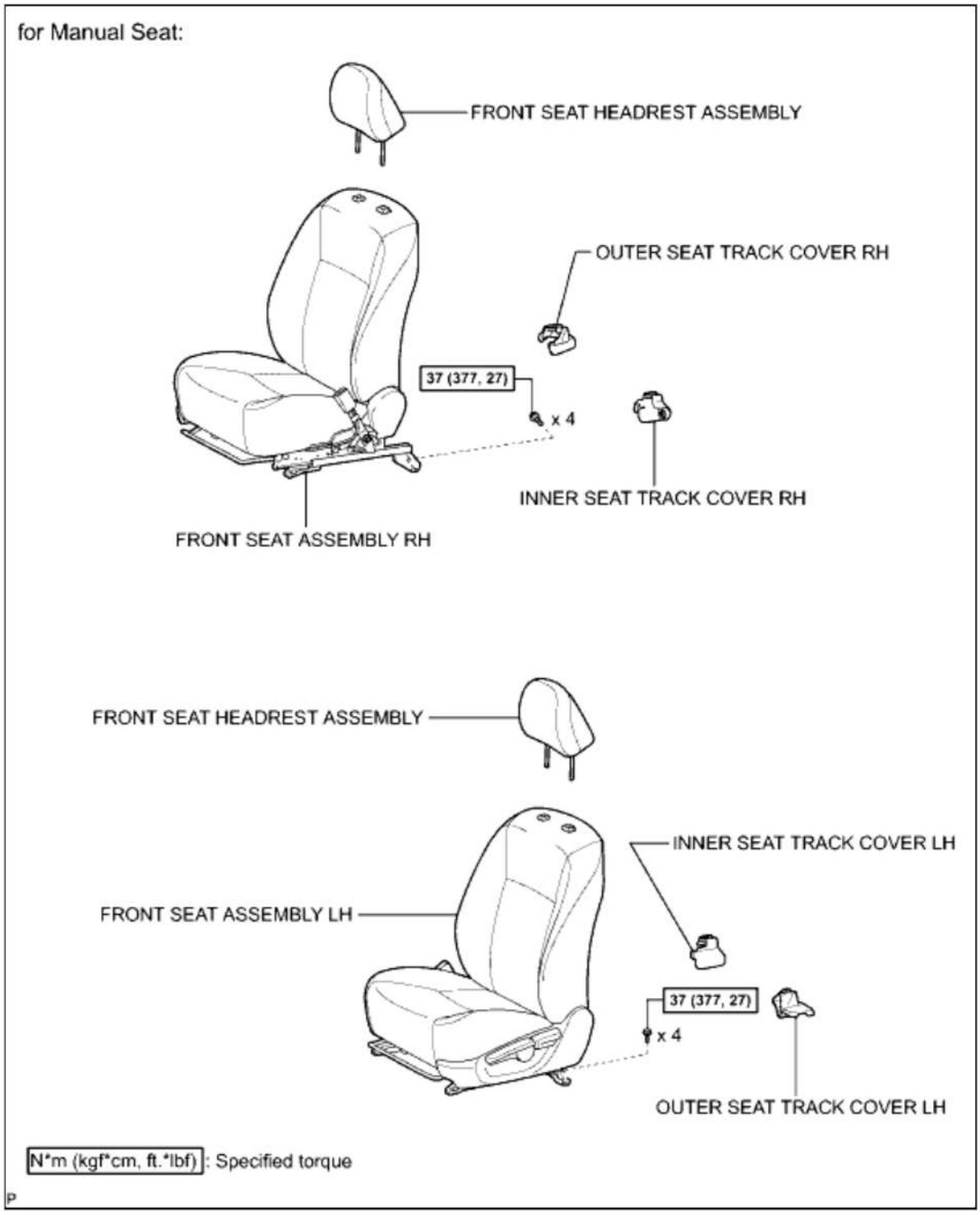
TOYOTA

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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XB000IX
Title: AUDIO / VIDEO: RADIO ANTENNA (for Satellite Radio): COMPONENTS (2010 Corolla)		

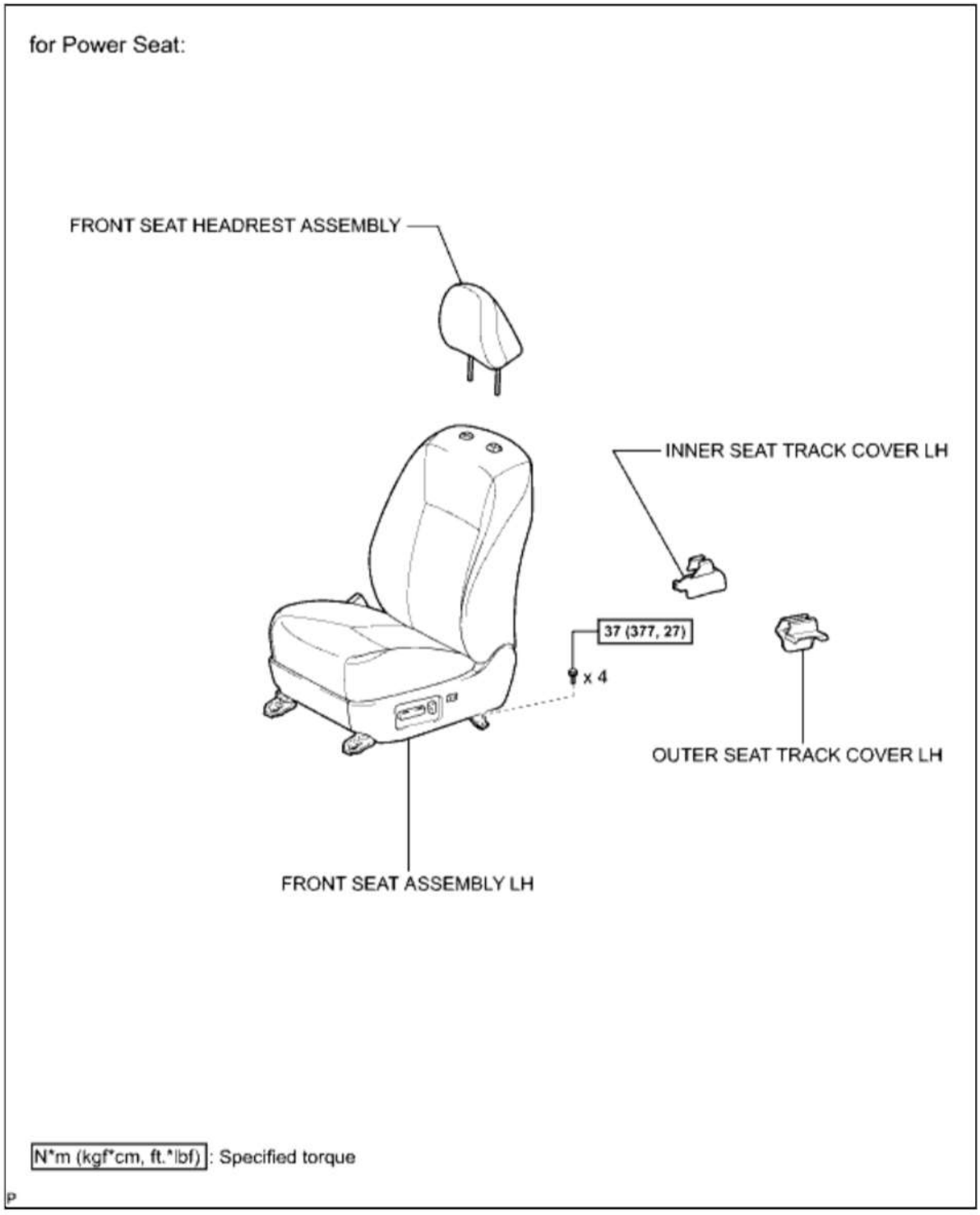
COMPONENTS

ILLUSTRATION



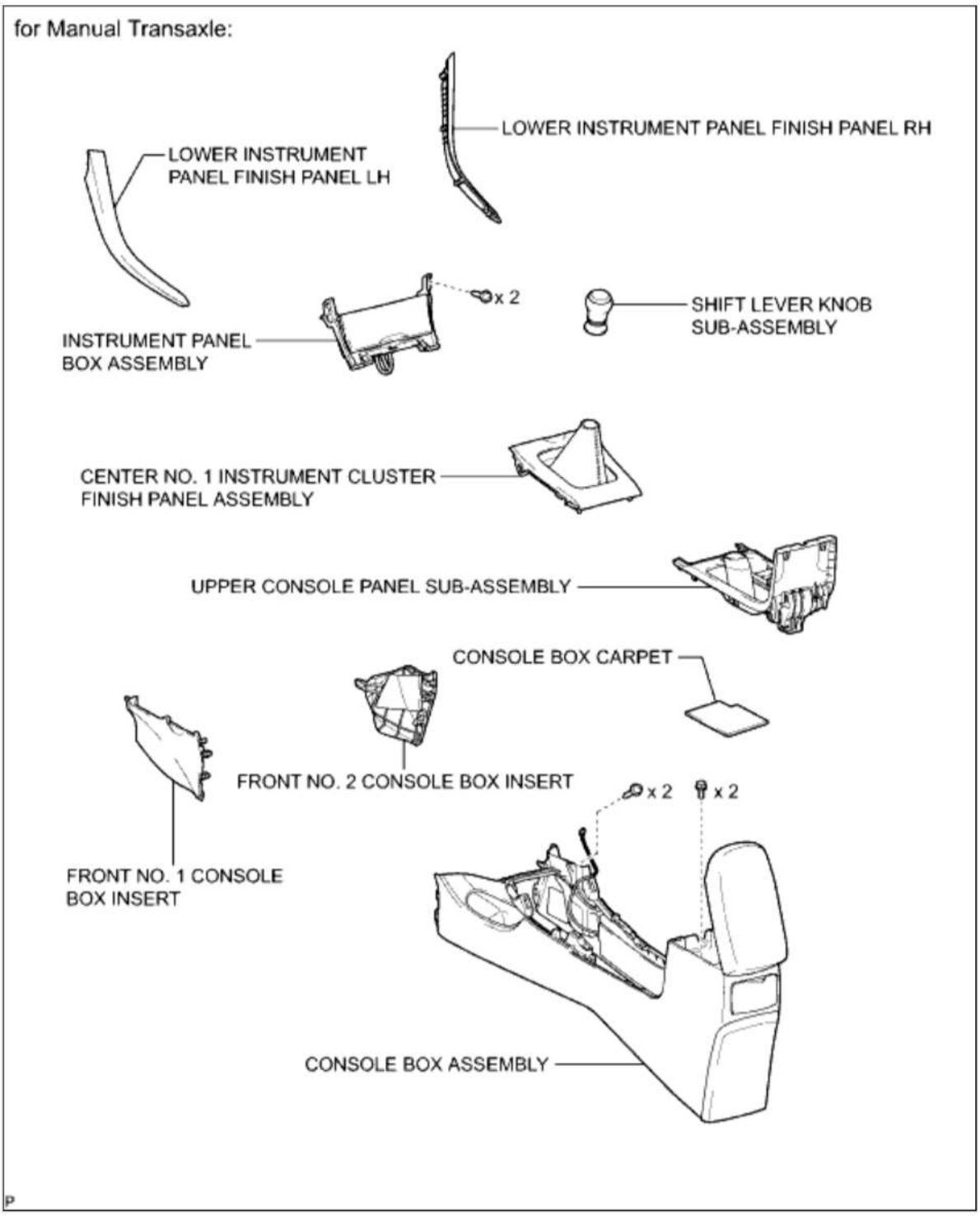
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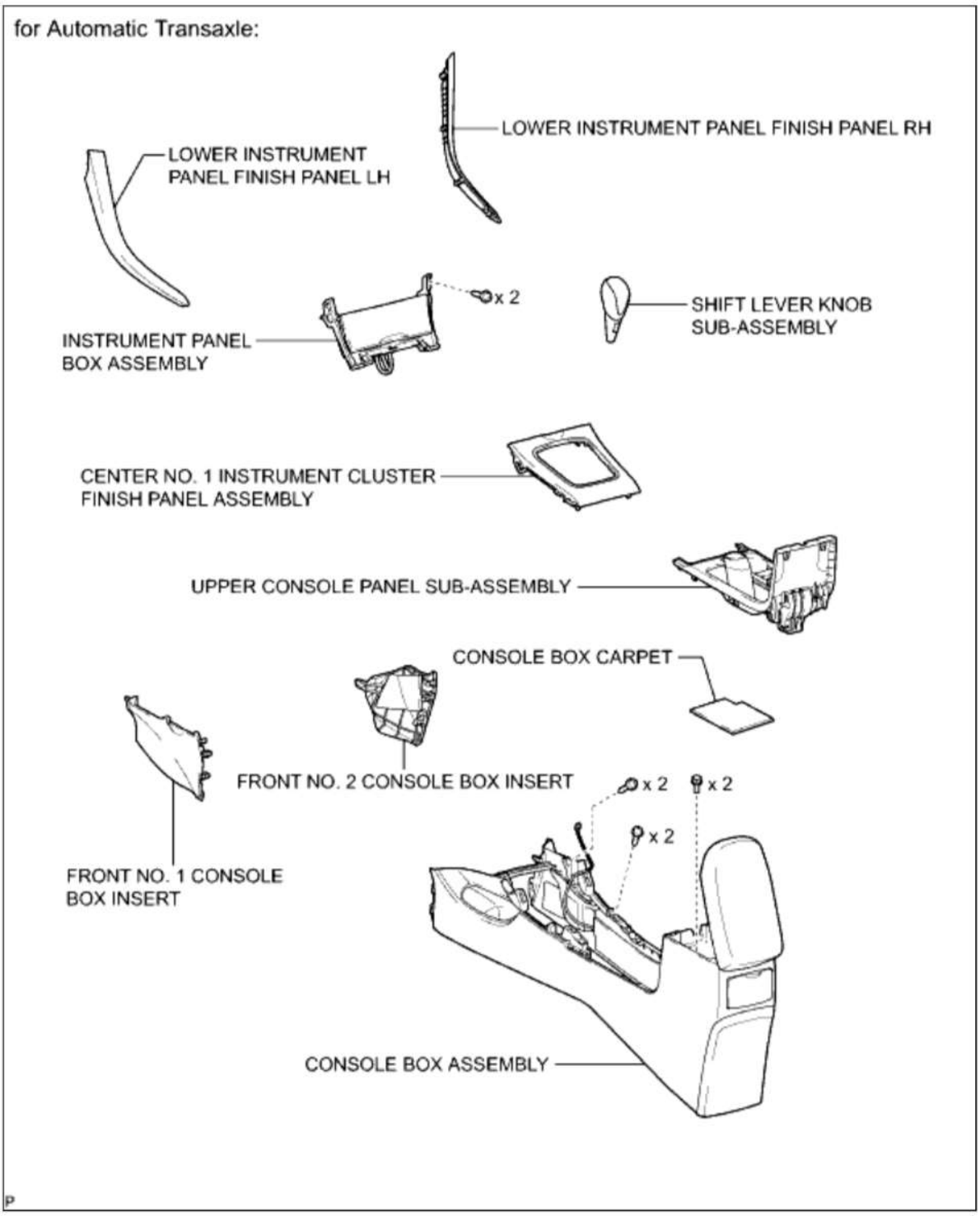
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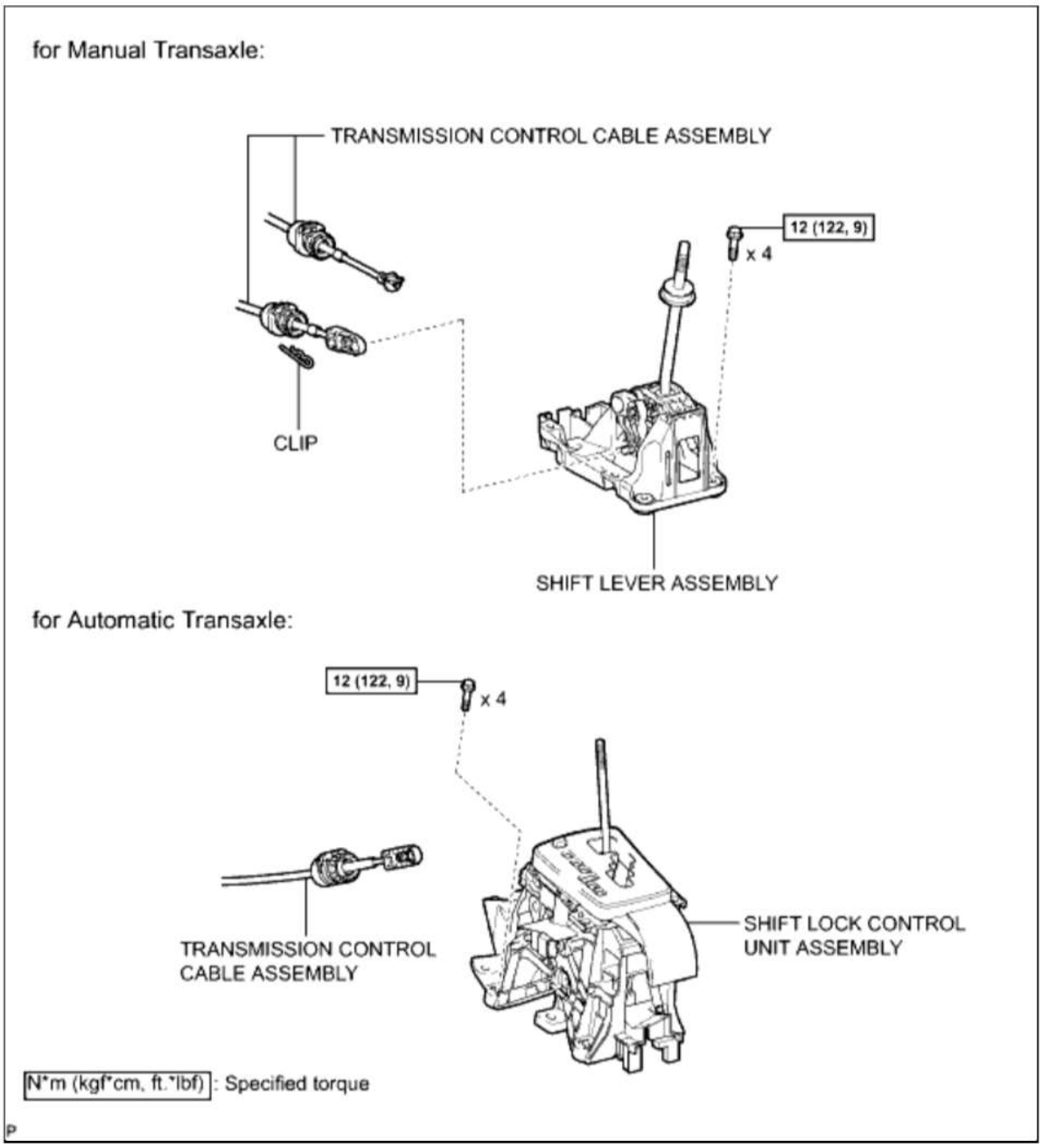
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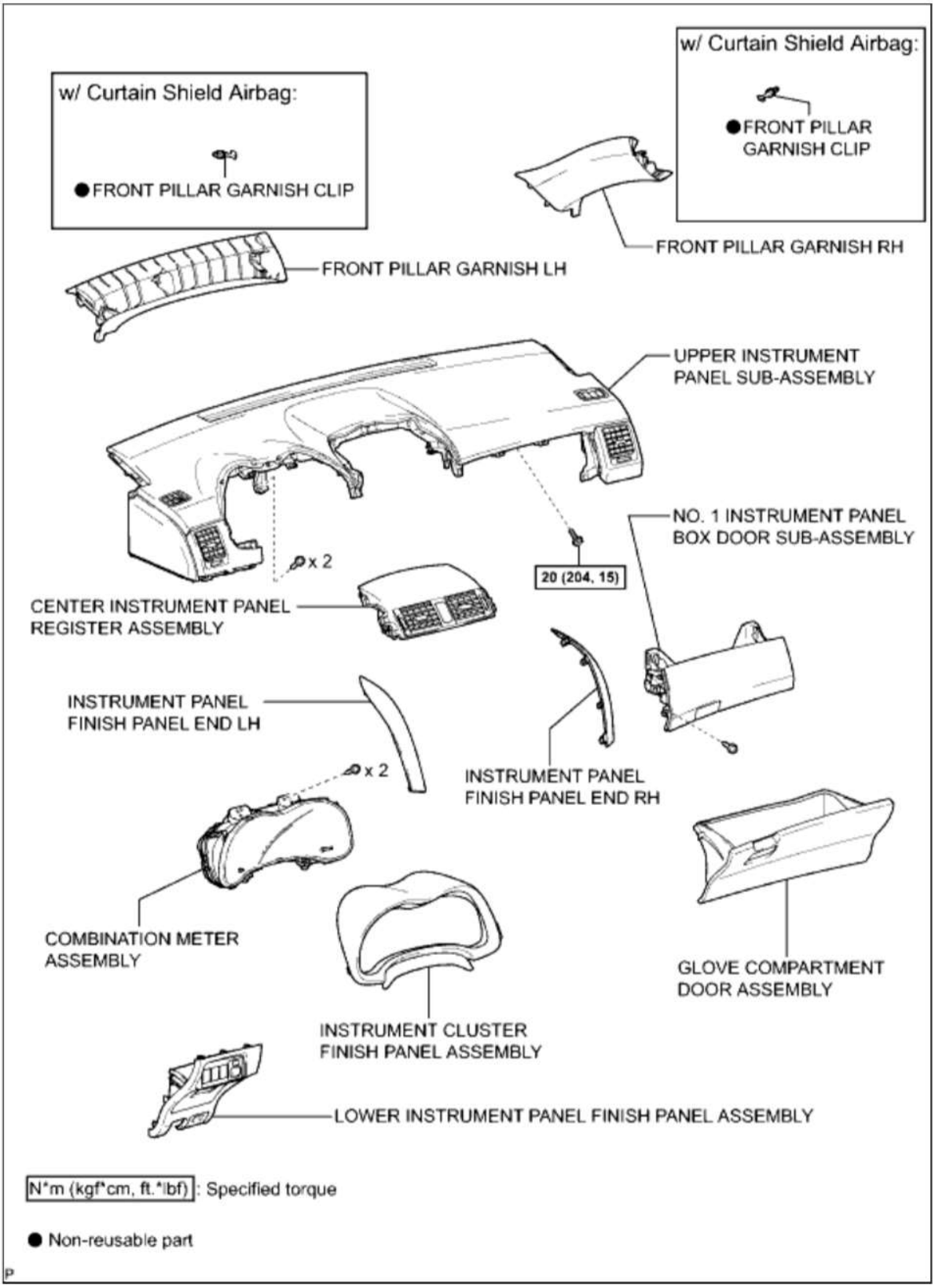
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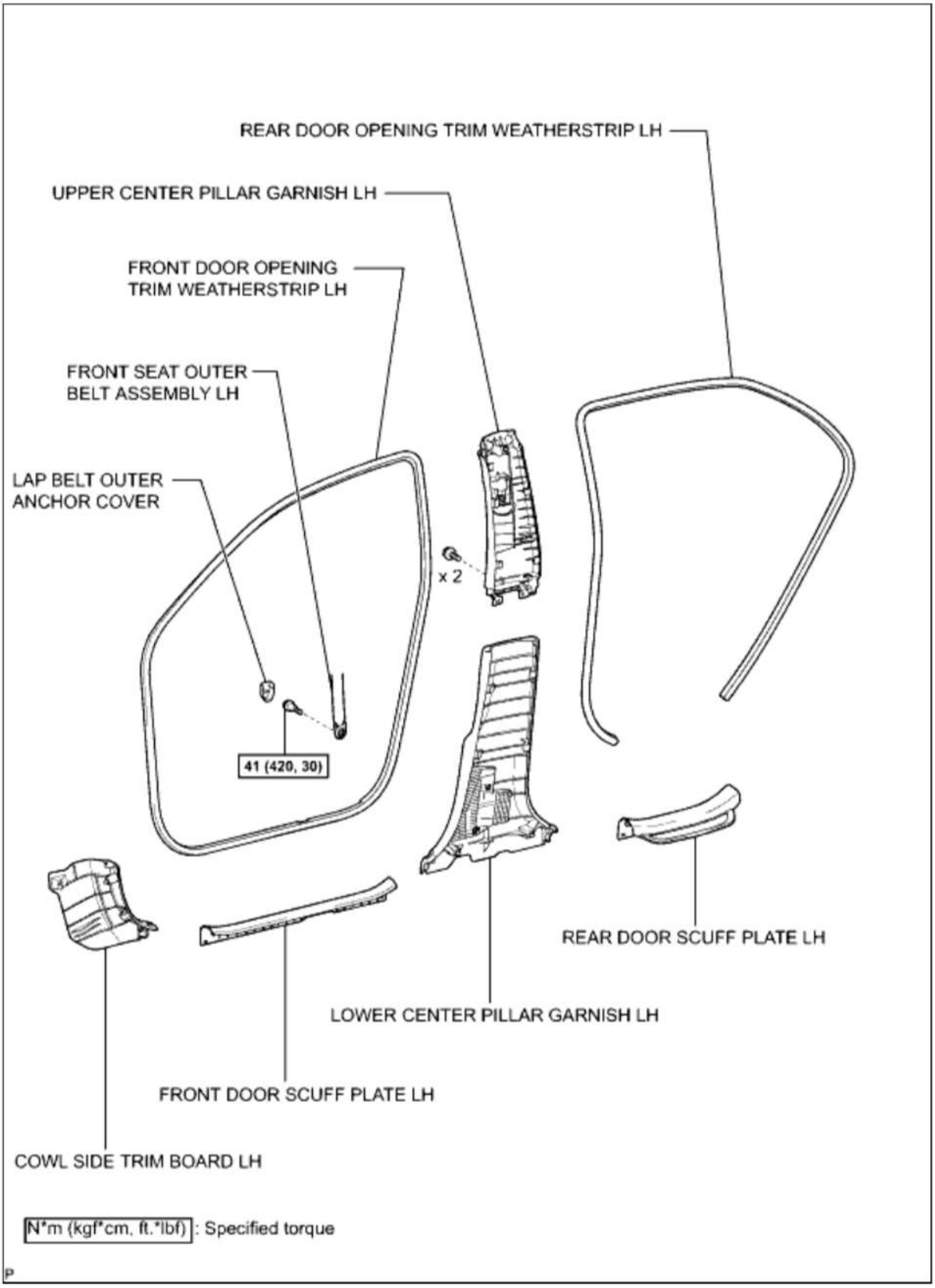
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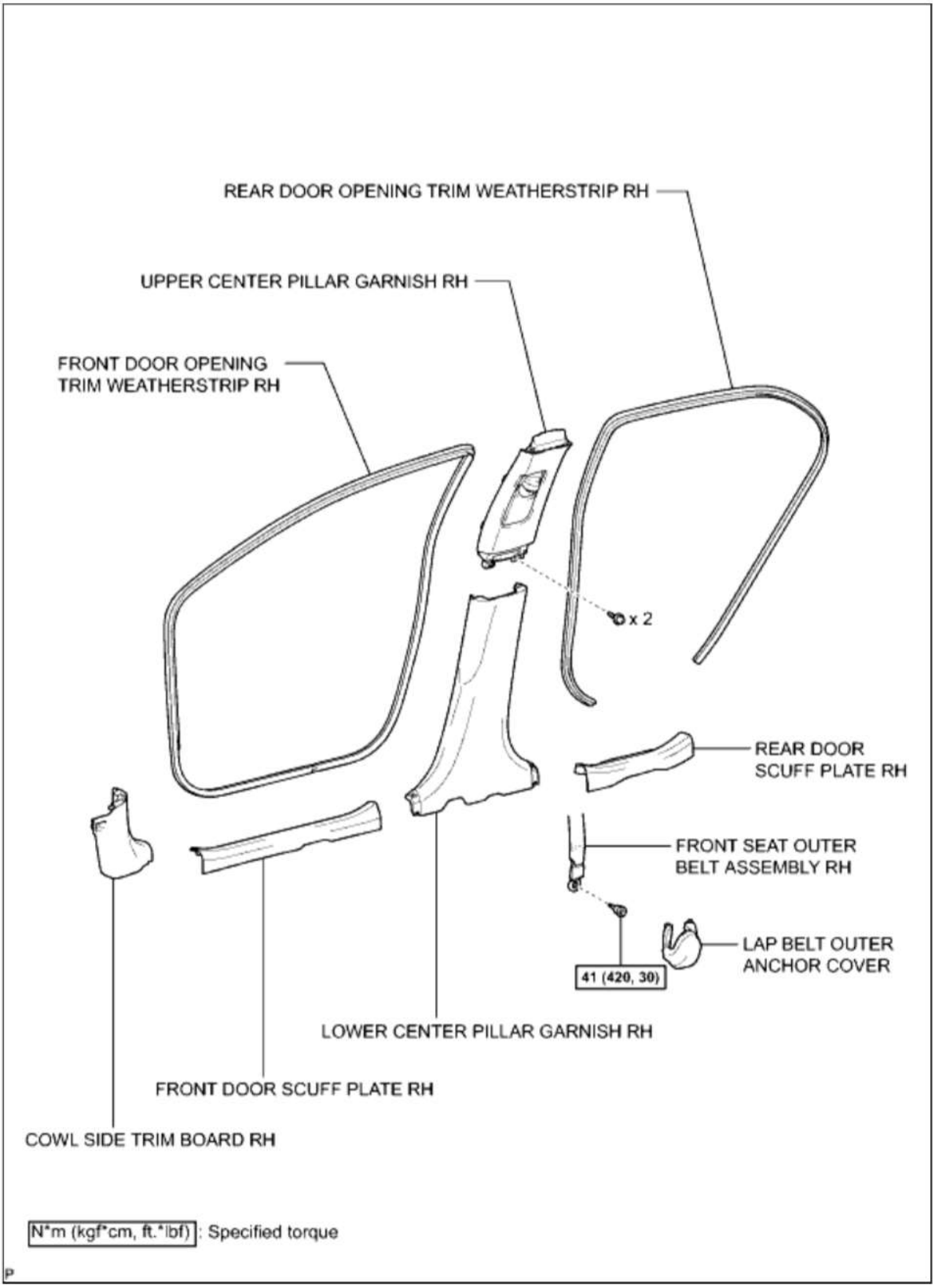
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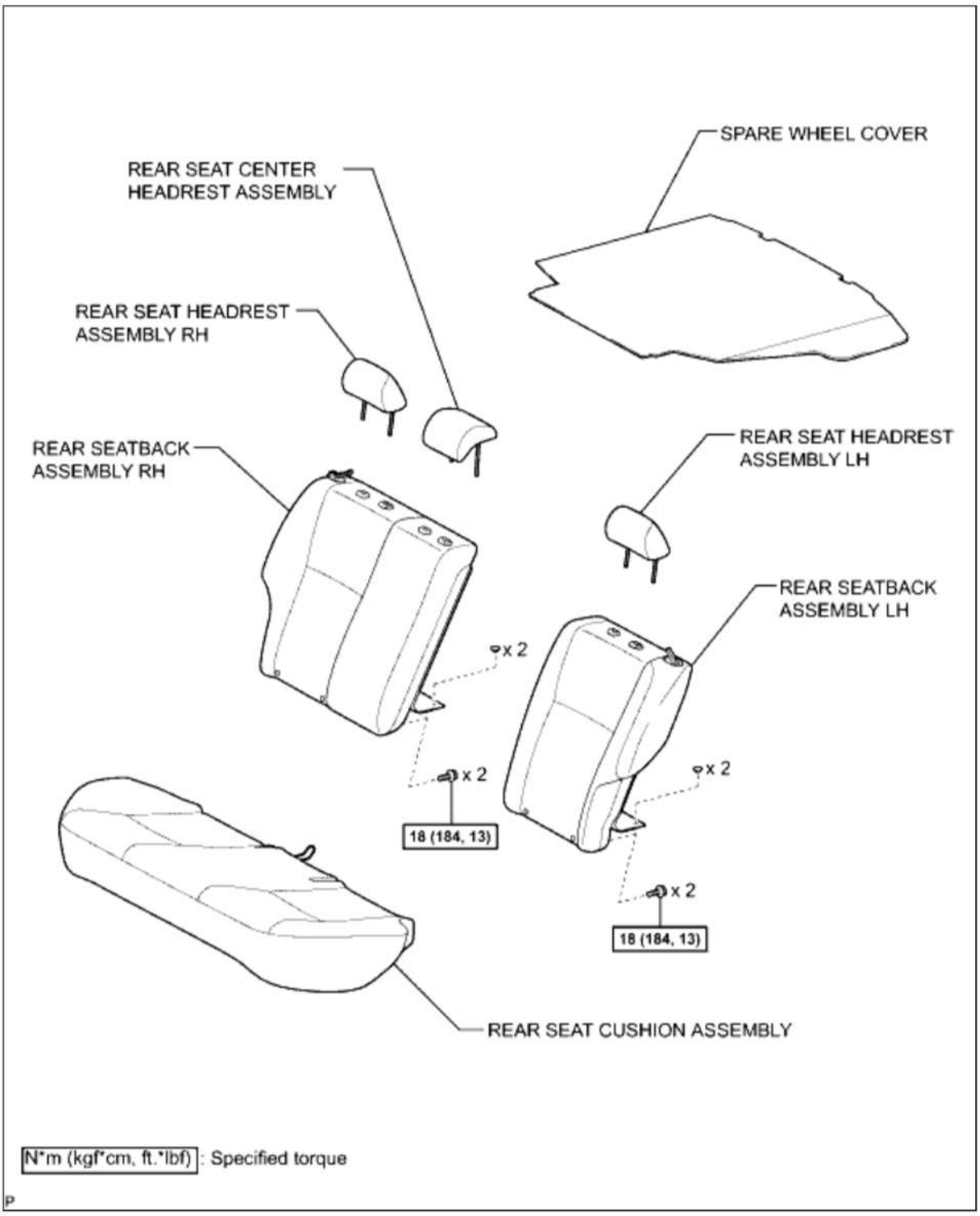
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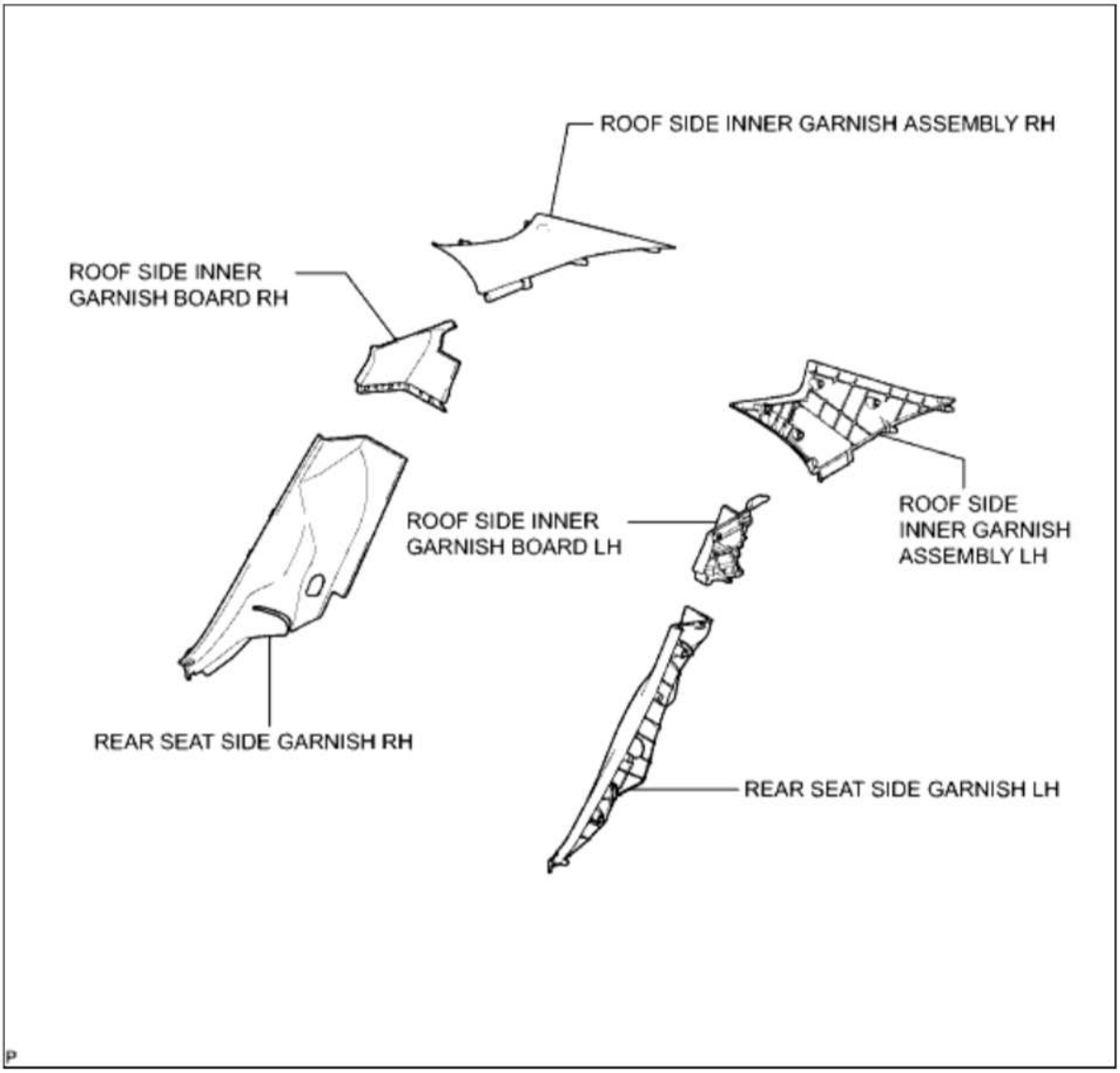
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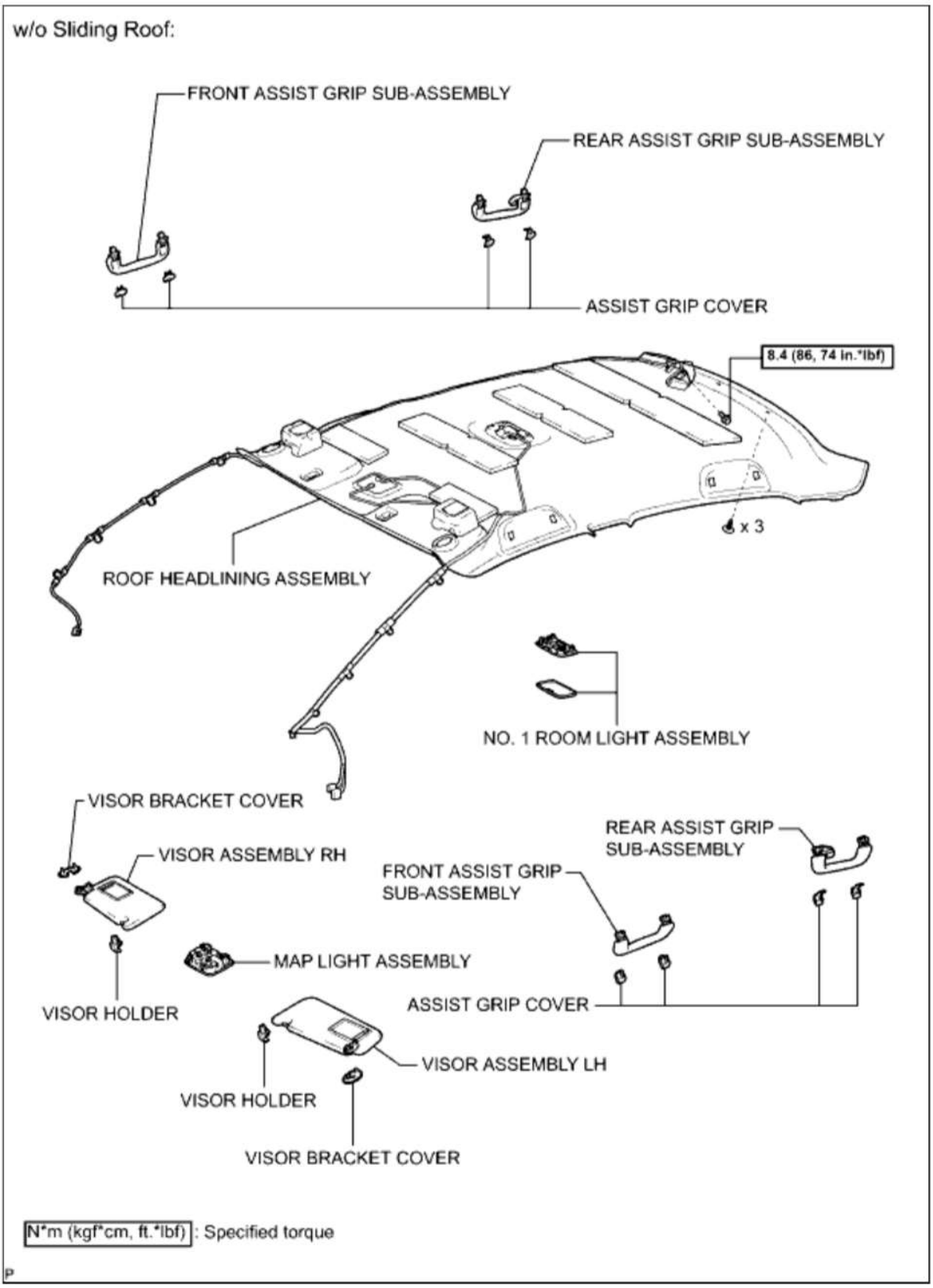
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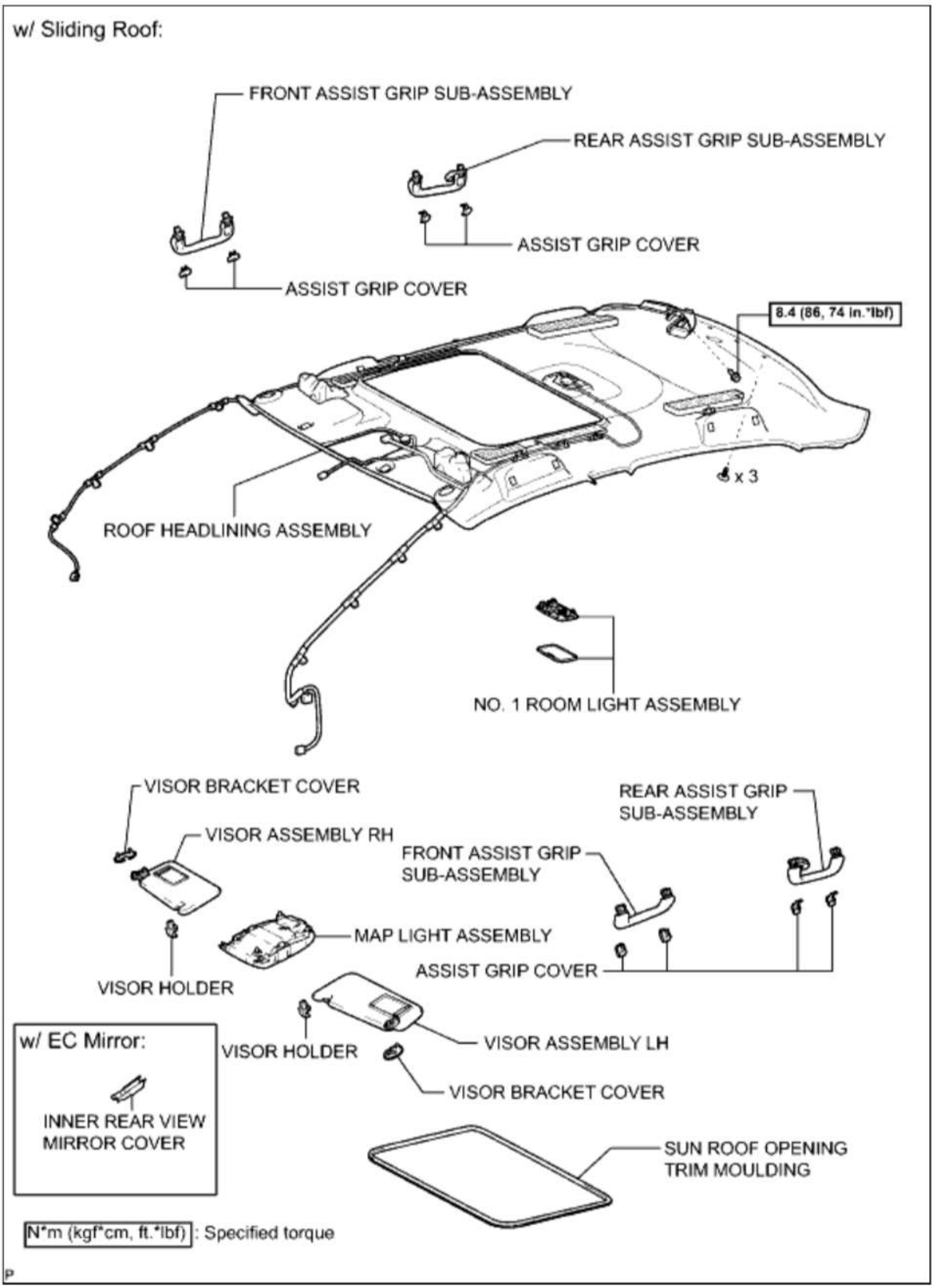
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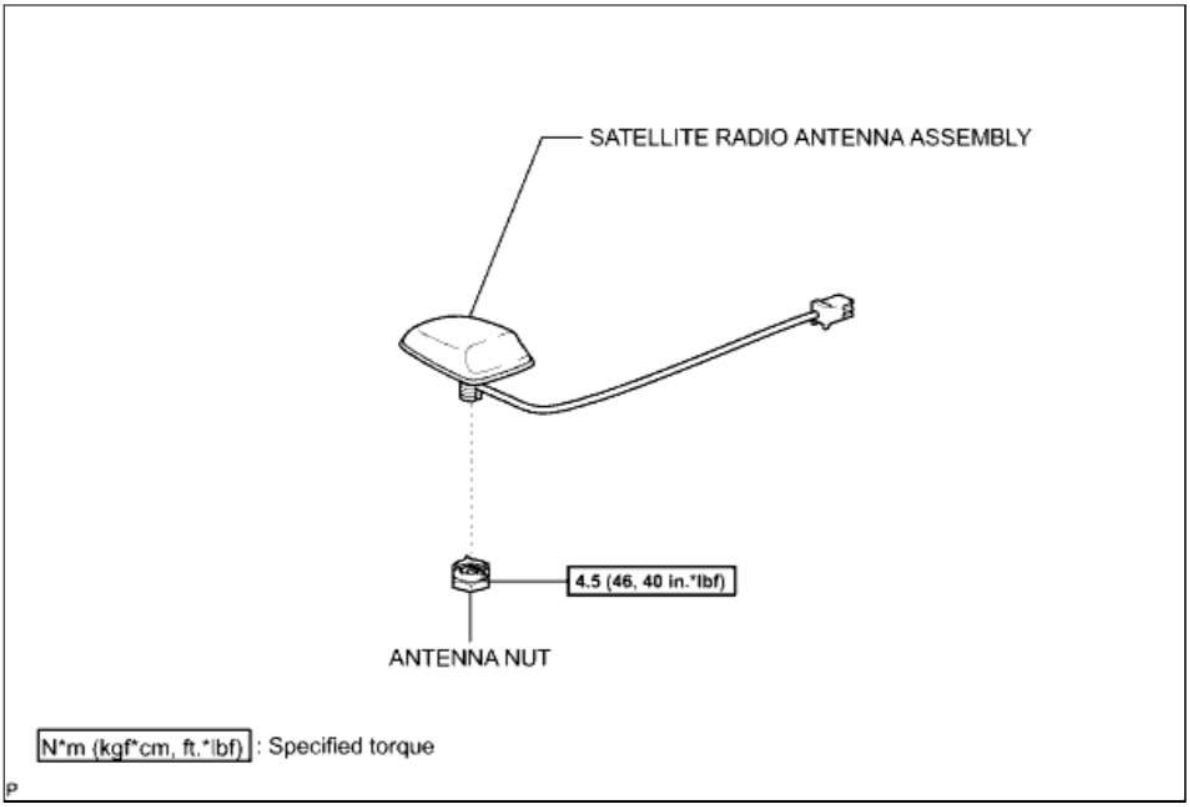
ILLUSTRATION

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TOYOTA

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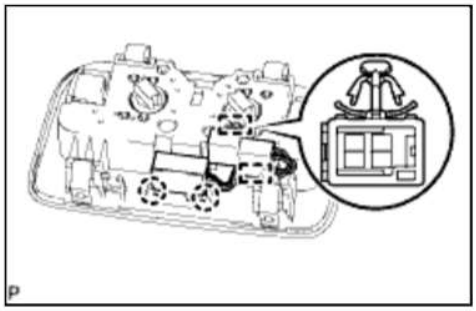
Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001Q0100ZX
Title: AUDIO / VIDEO: MICROPHONE: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE MAP LIGHT ASSEMBLY (w/o Sliding Roof) INFO

2. REMOVE MAP LIGHT ASSEMBLY (w/ Sliding Roof) INFO

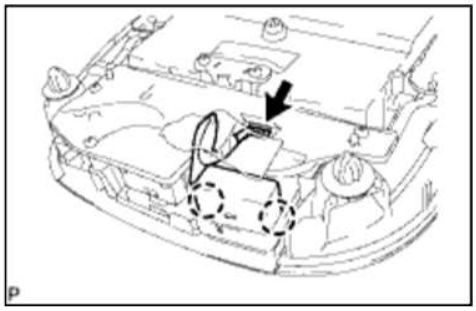
3. REMOVE TELEPHONE MICROPHONE ASSEMBLY (w/o Sliding Roof)



(a) Disengage the 2 clamps.

(b) Disengage the 2 claws and remove the telephone microphone assembly.

4. REMOVE TELEPHONE MICROPHONE ASSEMBLY (w/ Sliding Roof)



(a) Disconnect the connector.

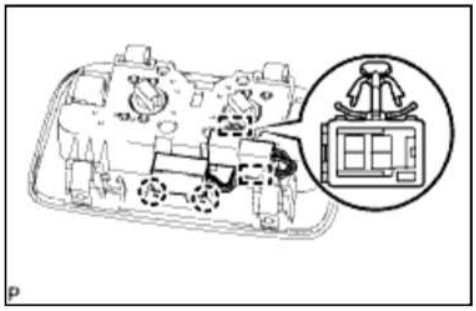
(b) Disengage the 2 claws and remove the telephone microphone assembly.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001PZZ00ZX
Title: AUDIO / VIDEO: MICROPHONE: INSTALLATION (2010 Corolla)		

INSTALLATION

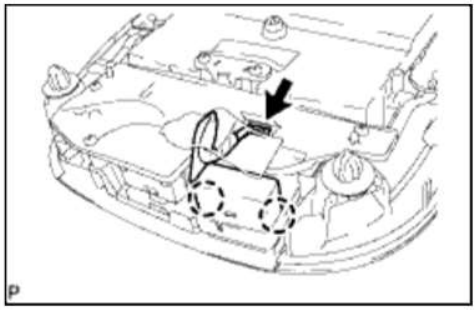
1. INSTALL TELEPHONE MICROPHONE ASSEMBLY (w/o Sliding Roof)



(a) Engage the 2 claws and install the telephone microphone assembly.

(b) Engage the 2 clamps.

2. INSTALL TELEPHONE MICROPHONE ASSEMBLY (w/ Sliding Roof)



(a) Engage the 2 claws and install the telephone microphone assembly.

(b) Connect the connector.

3. INSTALL MAP LIGHT ASSEMBLY (w/o Sliding Roof) INFO

4. INSTALL MAP LIGHT ASSEMBLY (w/ Sliding Roof) INFO

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XB100KX
Title: AUDIO / VIDEO: RADIO ANTENNA (for Satellite Radio): REMOVAL (2010 Corolla)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL (for Manual Seat)

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

3. REMOVE OUTER SEAT TRACK COVER LH (for Manual Seat) INFO

4. REMOVE INNER SEAT TRACK COVER LH (for Manual Seat) INFO

5. REMOVE FRONT SEAT ASSEMBLY LH (for Manual Seat) INFO

6. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Power Seat)

7. REMOVE OUTER SEAT TRACK COVER LH (for Power Seat) INFO

8. REMOVE INNER SEAT TRACK COVER LH (for Power Seat) INFO

9. REMOVE FRONT SEAT ASSEMBLY LH (for Power Seat) INFO

10. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

11. REMOVE OUTER SEAT TRACK COVER RH (for Manual Seat) INFO

12. REMOVE INNER SEAT TRACK COVER RH (for Manual Seat) INFO

13. REMOVE FRONT SEAT ASSEMBLY RH (for Manual Seat) INFO

14. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

15. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

16. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle) INFO

17. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle) INFO

18. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle) INFO

19. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle) INFO

20. REMOVE INSTRUMENT PANEL BOX ASSEMBLY INFO

21. REMOVE FRONT NO. 1 CONSOLE BOX INSERT INFO

22. REMOVE FRONT NO. 2 CONSOLE BOX INSERT INFO

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23. REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY INFO

24. REMOVE CONSOLE BOX CARPET INFO

25. REMOVE CONSOLE BOX ASSEMBLY (for Manual Transaxle) INFO

26. REMOVE CONSOLE BOX ASSEMBLY (for Automatic Transaxle) INFO

27. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

28. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

29. REMOVE SHIFT LEVER ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

30. REMOVE SHIFT LOCK CONTROL UNIT ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

31. REMOVE INSTRUMENT PANEL FINISH PANEL END LH INFO

32. REMOVE INSTRUMENT PANEL FINISH PANEL END RH INFO

33. REMOVE CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

34. REMOVE INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY INFO

35. REMOVE COMBINATION METER ASSEMBLY INFO

36. REMOVE FRONT PILLAR GARNISH LH (w/o Curtain Shield Airbag) INFO

37. REMOVE FRONT PILLAR GARNISH LH (w/ Curtain Shield Airbag) INFO

38. REMOVE FRONT PILLAR GARNISH RH (w/o Curtain Shield Airbag) INFO

39. REMOVE FRONT PILLAR GARNISH RH (w/ Curtain Shield Airbag) INFO

40. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

41. REMOVE FRONT DOOR SCUFF PLATE LH INFO

42. REMOVE COWL SIDE TRIM BOARD LH INFO

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43. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH INFO
44. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY INFO
45. REMOVE NO. 1 INSTRUMENT PANEL BOX DOOR SUB-ASSEMBLY INFO
46. REMOVE FRONT DOOR SCUFF PLATE RH INFO
47. REMOVE COWL SIDE TRIM BOARD RH INFO
48. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH INFO
49. DISCONNECT INSTRUMENT PANEL WIRE ASSEMBLY INFO
50. REMOVE UPPER INSTRUMENT PANEL SUB-ASSEMBLY INFO
51. REMOVE REAR DOOR SCUFF PLATE LH INFO
52. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH INFO
53. REMOVE LAP BELT OUTER ANCHOR COVER (for LH Side) INFO
54. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY LH INFO
55. REMOVE LOWER CENTER PILLAR GARNISH LH INFO
56. REMOVE UPPER CENTER PILLAR GARNISH LH INFO
57. REMOVE REAR DOOR SCUFF PLATE RH INFO
58. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH INFO
59. REMOVE LAP BELT OUTER ANCHOR COVER (for RH Side) INFO
60. REMOVE LOWER CENTER PILLAR GARNISH RH INFO
61. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY RH INFO
62. REMOVE UPPER CENTER PILLAR GARNISH RH INFO
63. REMOVE SPARE WHEEL COVER INFO
64. REMOVE REAR SEAT HEADREST ASSEMBLY LH
65. REMOVE REAR SEAT HEADREST ASSEMBLY RH
66. REMOVE REAR SEAT CENTER HEADREST ASSEMBLY
67. REMOVE REAR SEAT CUSHION ASSEMBLY INFO
68. REMOVE REAR SEATBACK ASSEMBLY LH INFO
69. REMOVE REAR SEATBACK ASSEMBLY RH INFO
70. REMOVE REAR SEAT SIDE GARNISH LH INFO

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71. REMOVE ROOF SIDE INNER GARNISH BOARD LH INFO

72. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY LH INFO

73. REMOVE REAR SEAT SIDE GARNISH RH INFO

74. REMOVE ROOF SIDE INNER GARNISH BOARD RH INFO

75. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY RH INFO

76. REMOVE MAP LIGHT ASSEMBLY (w/o Sliding Roof) INFO

77. REMOVE MAP LIGHT ASSEMBLY (w/ Sliding Roof) INFO

78. REMOVE VISOR ASSEMBLY LH INFO

79. REMOVE VISOR ASSEMBLY RH INFO

80. REMOVE FRONT ASSIST GRIP SUB-ASSEMBLY INFO

81. REMOVE REAR ASSIST GRIP SUB-ASSEMBLY INFO

82. REMOVE NO. 1 ROOM LIGHT ASSEMBLY INFO

83. REMOVE INNER REAR VIEW MIRROR COVER (w/ EC Mirror) INFO

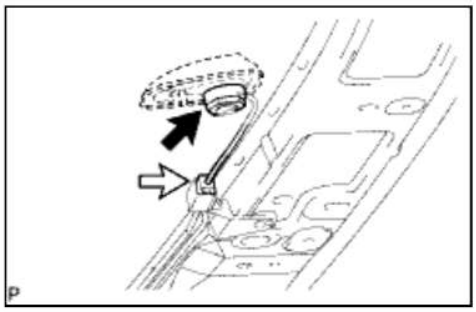
84. REMOVE VISOR HOLDER INFO

85. REMOVE SUN ROOF OPENING TRIM MOULDING (w/ Sliding Roof) INFO

86. REMOVE ROOF HEADLINING ASSEMBLY (w/o Sliding Roof) INFO

87. REMOVE ROOF HEADLINING ASSEMBLY (w/ Sliding Roof) INFO

88. REMOVE SATELLITE RADIO ANTENNA ASSEMBLY

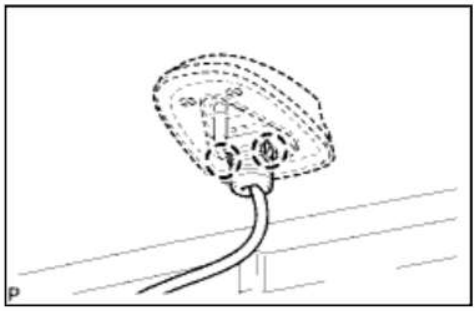


(a) Disconnect the connector.

(b) Remove the antenna nut.

(c) Disengage the 2 claws and remove the satellite radio antenna assembly.

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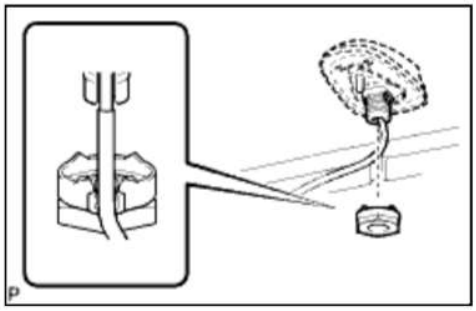


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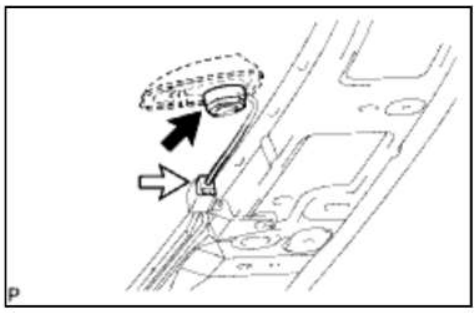
Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAZ00KX
Title: AUDIO / VIDEO: RADIO ANTENNA (for Satellite Radio): INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL SATELLITE RADIO ANTENNA ASSEMBLY



(a) Set the satellite radio antenna assembly into the hole on the roof and place the antenna cord in the cutout on the satellite radio antenna.



(b) Install the satellite radio antenna assembly with the antenna nut.

Torque: 4.5 N·m (46 kgf·cm, 40in·lbf)

(c) Connect the connector.

2. INSTALL ROOF HEADLINING ASSEMBLY (w/ Sliding Roof) INFO

3. INSTALL ROOF HEADLINING ASSEMBLY (w/o Sliding Roof) INFO

4. INSTALL SUN ROOF OPENING TRIM MOULDING (w/ Sliding Roof) INFO

5. INSTALL VISOR HOLDER INFO

6. INSTALL INNER REAR VIEW MIRROR COVER (w/ EC Mirror) INFO

7. INSTALL NO. 1 ROOM LIGHT ASSEMBLY INFO

8. INSTALL REAR ASSIST GRIP SUB-ASSEMBLY INFO

9. INSTALL FRONT ASSIST GRIP SUB-ASSEMBLY INFO

10. INSTALL VISOR ASSEMBLY LH INFO

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11. INSTALL VISOR ASSEMBLY RH INFO
12. INSTALL MAP LIGHT ASSEMBLY (w/ Sliding Roof) INFO
13. INSTALL MAP LIGHT ASSEMBLY (w/o Sliding Roof) INFO
14. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY LH INFO
15. INSTALL ROOF SIDE INNER GARNISH BOARD LH INFO
16. INSTALL REAR SEAT SIDE GARNISH LH INFO
17. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY RH INFO
18. INSTALL ROOF SIDE INNER GARNISH BOARD RH INFO
19. INSTALL REAR SEAT SIDE GARNISH RH INFO
20. INSTALL REAR SEATBACK ASSEMBLY LH INFO
21. INSTALL REAR SEATBACK ASSEMBLY RH INFO
22. INSTALL REAR SEAT CENTER HEADREST ASSEMBLY
23. INSTALL REAR SEAT HEADREST ASSEMBLY LH
24. INSTALL REAR SEAT HEADREST ASSEMBLY RH
25. INSTALL SPARE WHEEL COVER INFO
26. INSTALL UPPER CENTER PILLAR GARNISH LH INFO
27. INSTALL LOWER CENTER PILLAR GARNISH LH INFO
28. CONNECT FRONT SEAT OUTER BELT ASSEMBLY LH INFO
29. INSTALL LAP BELT OUTER ANCHOR COVER (for LH Side) INFO
30. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH INFO
31. INSTALL REAR DOOR SCUFF PLATE LH INFO
32. INSTALL UPPER CENTER PILLAR GARNISH RH INFO
33. CONNECT FRONT SEAT OUTER BELT ASSEMBLY RH INFO
34. INSTALL LOWER CENTER PILLAR GARNISH RH INFO
35. INSTALL LAP BELT OUTER ANCHOR COVER (for RH Side) INFO
36. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP RH INFO
37. INSTALL REAR DOOR SCUFF PLATE RH INFO
38. INSTALL UPPER INSTRUMENT PANEL SUB-ASSEMBLY INFO

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39. CONNECT INSTRUMENT PANEL WIRE ASSEMBLY INFO

40. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH INFO

41. INSTALL COWL SIDE TRIM BOARD LH INFO

42. INSTALL FRONT DOOR SCUFF PLATE LH INFO

43. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

44. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH INFO

45. INSTALL COWL SIDE TRIM BOARD RH INFO

46. INSTALL FRONT DOOR SCUFF PLATE RH INFO

47. INSTALL NO. 1 INSTRUMENT PANEL BOX DOOR SUB-ASSEMBLY INFO

48. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY INFO

49. INSTALL FRONT PILLAR GARNISH LH (w/ Curtain Shield Airbag) INFO

50. INSTALL FRONT PILLAR GARNISH LH (w/o Curtain Shield Airbag) INFO

51. INSTALL FRONT PILLAR GARNISH RH (w/ Curtain Shield Airbag) INFO

52. INSTALL FRONT PILLAR GARNISH RH (w/o Curtain Shield Airbag) INFO

53. INSTALL COMBINATION METER ASSEMBLY INFO

54. INSTALL INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY INFO

55. INSTALL CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

56. INSTALL INSTRUMENT PANEL FINISH PANEL END LH INFO

57. INSTALL INSTRUMENT PANEL FINISH PANEL END RH INFO

58. INSTALL SHIFT LOCK CONTROL UNIT ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

59. INSTALL SHIFT LEVER ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

60. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

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61. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

62. ADJUST TRANSMISSION CONTROL SELECT CABLE (for Manual Transaxle)

for C59: INFO

for E351: INFO

63. INSTALL CONSOLE BOX ASSEMBLY (for Automatic Transaxle) INFO

64. INSTALL CONSOLE BOX ASSEMBLY (for Manual Transaxle) INFO

65. INSTALL CONSOLE BOX CARPET INFO

66. INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY INFO

67. INSTALL FRONT NO. 1 CONSOLE BOX INSERT INFO

68. INSTALL FRONT NO. 2 CONSOLE BOX INSERT INFO

69. INSTALL INSTRUMENT PANEL BOX ASSEMBLY INFO

70. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle) INFO

71. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle) INFO

72. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle) INFO

73. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle) INFO

74. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

75. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

76. INSTALL FRONT SEAT ASSEMBLY LH (for Manual Seat) INFO

77. INSPECT FRONT SEAT SLIDE ADJUSTER LOCK (for Manual Seat) INFO

78. INSTALL INNER SEAT TRACK COVER LH (for Manual Seat) INFO

79. INSTALL OUTER SEAT TRACK COVER LH (for Manual Seat) INFO

80. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

81. INSTALL FRONT SEAT ASSEMBLY LH (for Power Seat) INFO

82. INSTALL INNER SEAT TRACK COVER LH (for Power Seat) INFO

83. INSTALL OUTER SEAT TRACK COVER LH (for Power Seat) INFO

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84. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Power Seat)

85. INSTALL FRONT SEAT ASSEMBLY RH (for Manual Seat) INFO

86. INSPECT FRONT SEAT SLIDE ADJUSTER LOCK (for Manual Seat) INFO

87. INSTALL INNER SEAT TRACK COVER RH (for Manual Seat) INFO

88. INSTALL OUTER SEAT TRACK COVER RH (for Manual Seat) INFO

89. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

90. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL (for Manual Seat)

91. INSPECT SHIFT LEVER POSITION (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

92. ADJUST SHIFT LEVER POSITION (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

93. INSPECT SRS WARNING LIGHT

INFO

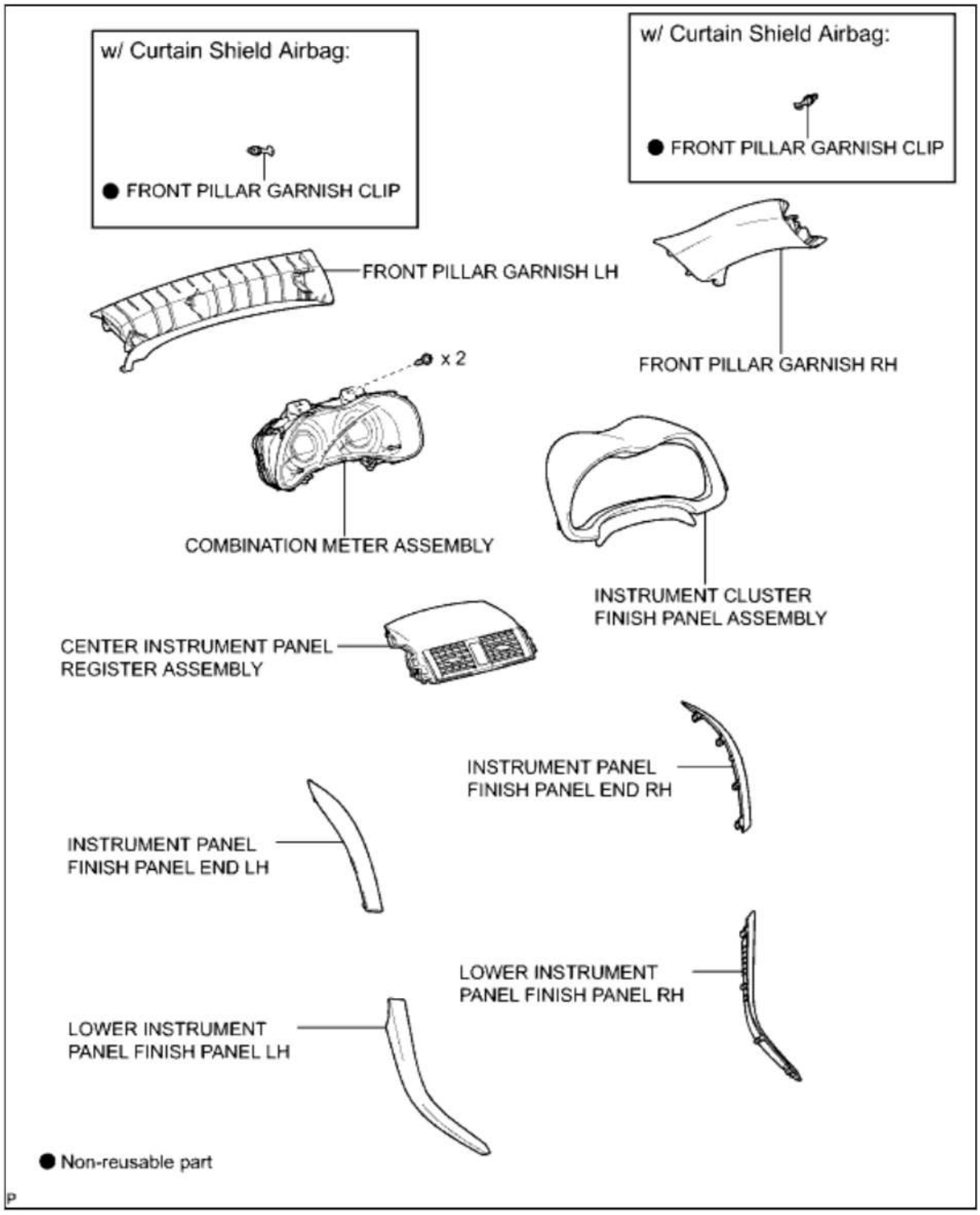
94. INSPECT FRONT SEAT ASSEMBLY (for Power Seat) INFO

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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XB900FX
Title: AUDIO / VIDEO: RADIO ANTENNA CORD: COMPONENTS (2010 Corolla)		

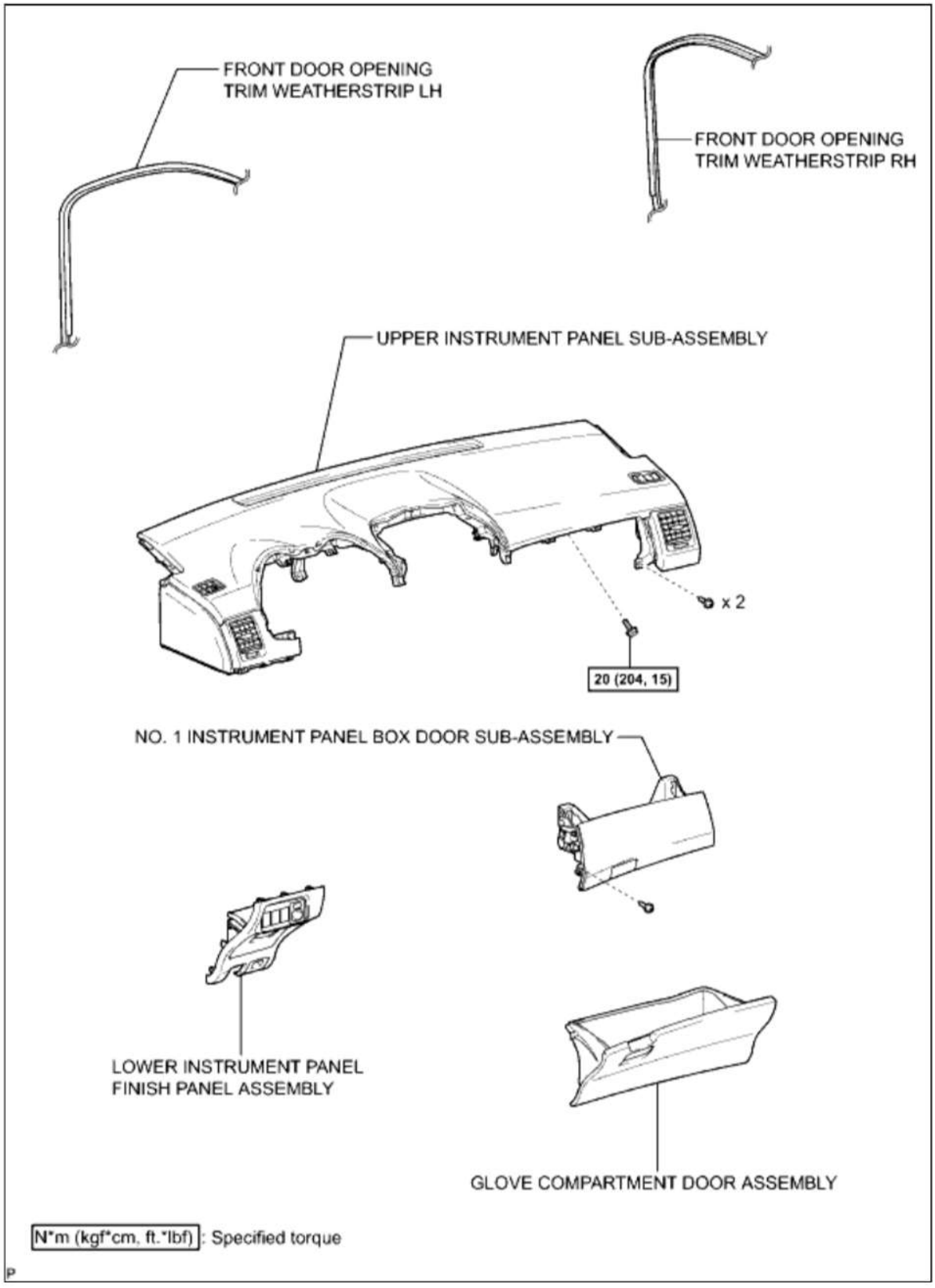
COMPONENTS

ILLUSTRATION



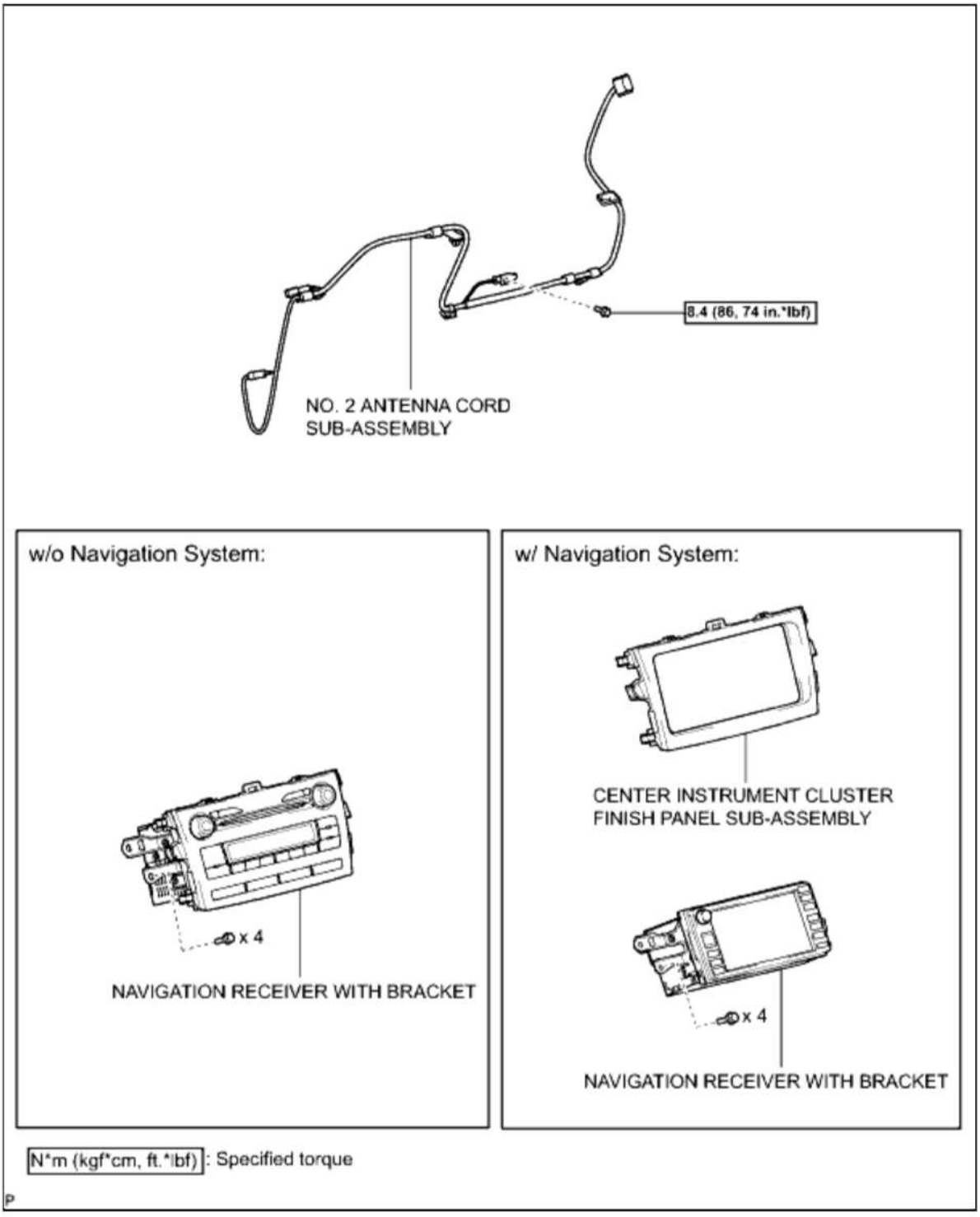
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ILLUSTRATION



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ILLUSTRATION

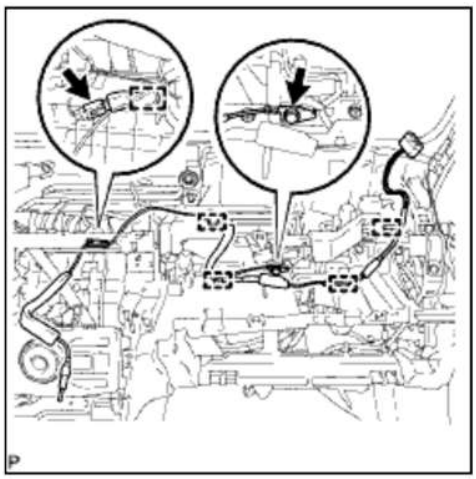


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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XB800HX
Title: AUDIO / VIDEO: RADIO ANTENNA CORD: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL NO. 2 ANTENNA CORD SUB-ASSEMBLY

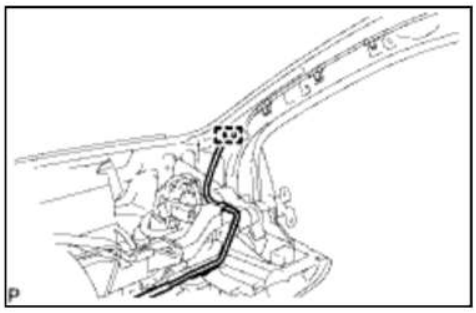


(a) Engage the 5 clamps and install the No. 2 antenna cord sub-assembly.

(b) Connect the connector.

(c) Install the bolt.

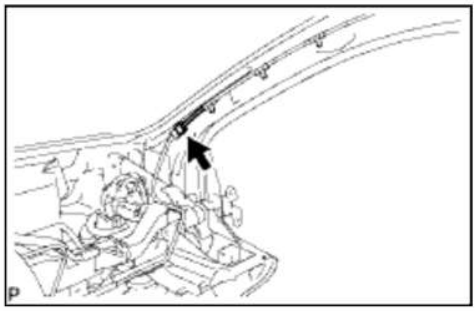
Torque: 8.4 N·m (86 kgf·cm, 74in·lbf)



(d) Engage the clamp.

(e) Connect the connector.

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2. INSTALL RADIO RECEIVER WITH BRACKET (w/o Navigation System) INFO

3. INSTALL NAVIGATION RECEIVER WITH BRACKET (w/ Navigation System) INFO

4. INSTALL CENTER INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY (w/ Navigation System) INFO

5. INSTALL UPPER INSTRUMENT PANEL SUB-ASSEMBLY INFO

6. CONNECT INSTRUMENT PANEL WIRE ASSEMBLY INFO

7. CONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP LH INFO

8. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

9. CONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP RH INFO

10. INSTALL NO. 1 INSTRUMENT PANEL BOX DOOR SUB-ASSEMBLY INFO

11. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY INFO

12. INSTALL FRONT PILLAR GARNISH LH (w/ Curtain Shield Airbag) INFO

13. INSTALL FRONT PILLAR GARNISH LH (w/o Curtain Shield Airbag) INFO

14. INSTALL FRONT PILLAR GARNISH RH (w/ Curtain Shield Airbag) INFO

15. INSTALL FRONT PILLAR GARNISH RH (w/o Curtain Shield Airbag) INFO

16. INSTALL COMBINATION METER ASSEMBLY INFO

17. INSTALL INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY INFO

18. INSTALL CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

19. INSTALL INSTRUMENT PANEL FINISH PANEL END LH INFO

20. INSTALL INSTRUMENT PANEL FINISH PANEL END RH INFO

21. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

22. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

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23. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

24. INSPECT SRS WARNING LIGHT

INFO



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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XBA00HX
Title: AUDIO / VIDEO: RADIO ANTENNA CORD: REMOVAL (2010 Corolla)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

3. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

4. REMOVE INSTRUMENT PANEL FINISH PANEL END LH INFO

5. REMOVE INSTRUMENT PANEL FINISH PANEL END RH INFO

6. REMOVE CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

7. REMOVE INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY INFO

8. REMOVE COMBINATION METER ASSEMBLY INFO

9. REMOVE FRONT PILLAR GARNISH LH (w/o Curtain Shield Airbag) INFO

10. REMOVE FRONT PILLAR GARNISH LH (w/ Curtain Shield Airbag) INFO

11. REMOVE FRONT PILLAR GARNISH RH (w/o Curtain Shield Airbag) INFO

12. REMOVE FRONT PILLAR GARNISH RH (w/ Curtain Shield Airbag) INFO

13. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

14. DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP LH INFO

15. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY INFO

16. REMOVE NO. 1 INSTRUMENT PANEL BOX DOOR SUB-ASSEMBLY INFO

17. DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP RH INFO

18. DISCONNECT INSTRUMENT PANEL WIRE ASSEMBLY INFO

19. REMOVE UPPER INSTRUMENT PANEL SUB-ASSEMBLY INFO

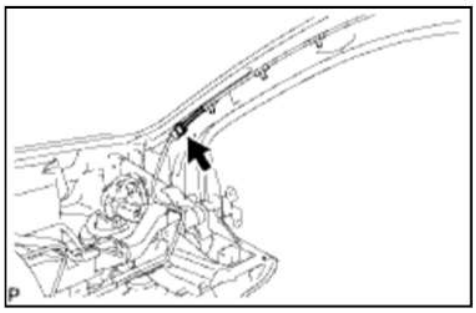
20. REMOVE RADIO RECEIVER WITH BRACKET (w/o Navigation System) INFO

21. REMOVE CENTER INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY (w/ Navigation System) INFO

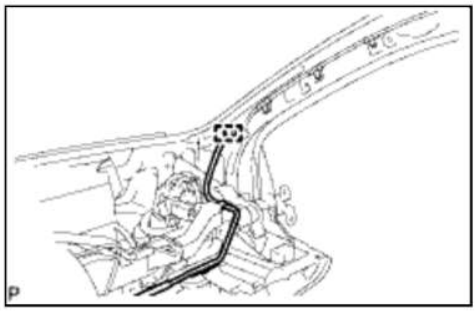
22. REMOVE NAVIGATION RECEIVER WITH BRACKET (w/ Navigation System) INFO

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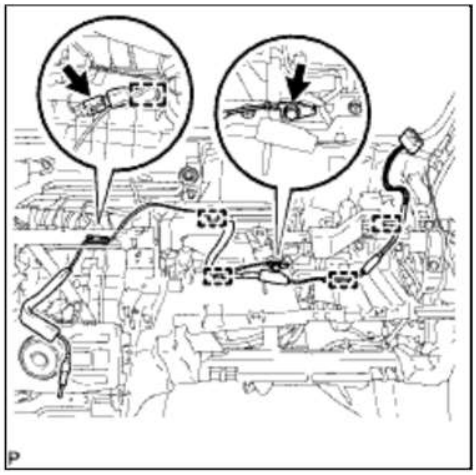
23. REMOVE NO. 2 ANTENNA CORD SUB-ASSEMBLY



(a) Disconnect the connector.



(b) Disengage the clamp.



(c) Remove the bolt.

(d) Disconnect the connector.

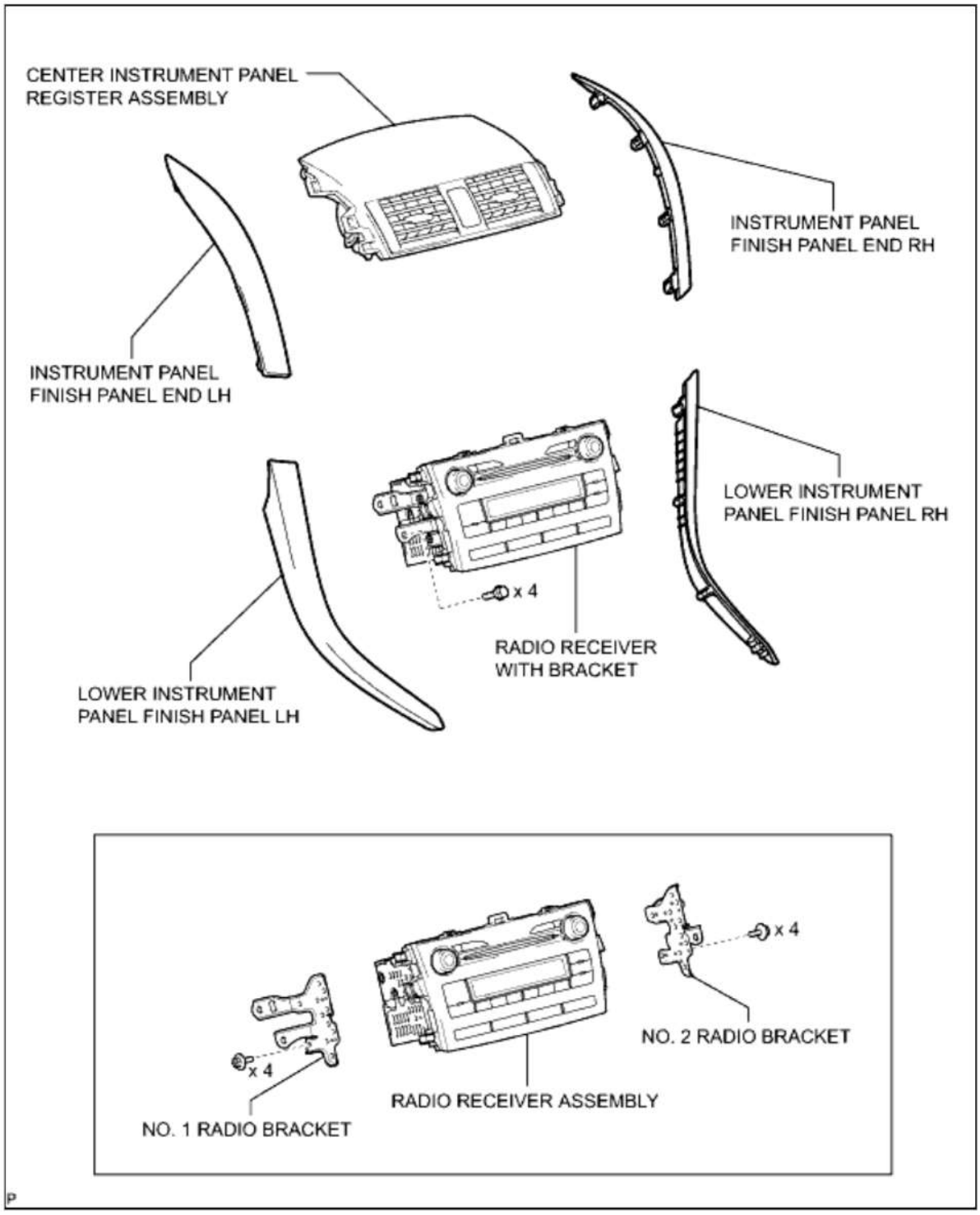
(e) Disengage the 5 clamps and remove the No. 2 antenna cord sub-assembly.

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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAI00GX
Title: AUDIO / VIDEO: RADIO RECEIVER: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



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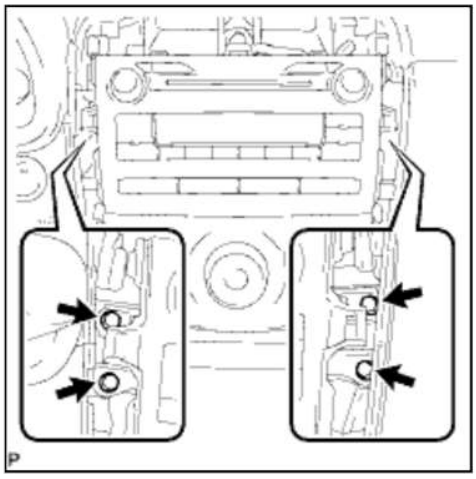


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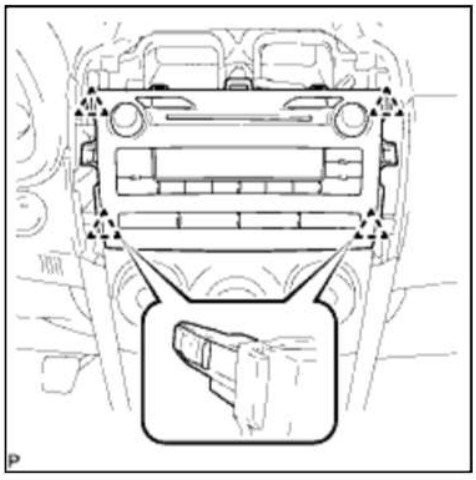
Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAJ00JX
Title: AUDIO / VIDEO: RADIO RECEIVER: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH INFO
2. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH INFO
3. REMOVE INSTRUMENT PANEL FINISH PANEL END LH INFO
4. REMOVE INSTRUMENT PANEL FINISH PANEL END RH INFO
5. REMOVE CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO
6. REMOVE RADIO RECEIVER WITH BRACKET



(a) Remove the 4 bolts.

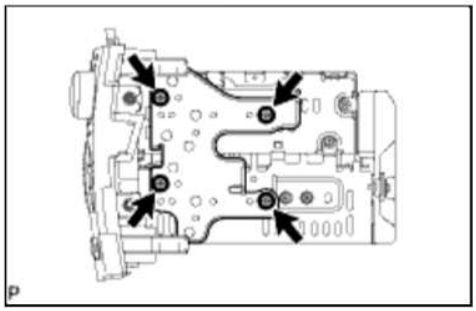


(b) Pull the radio receiver with bracket toward the rear of the vehicle and disengage the 4 clips.

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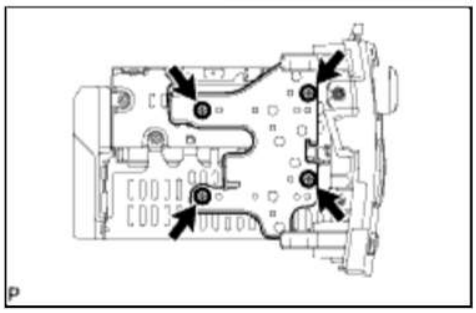
(c) Disconnect each connector and remove the radio receiver with bracket.

7. REMOVE NO. 2 RADIO BRACKET



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

8. REMOVE NO. 1 RADIO BRACKET



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

9. REMOVE RADIO RECEIVER ASSEMBLY

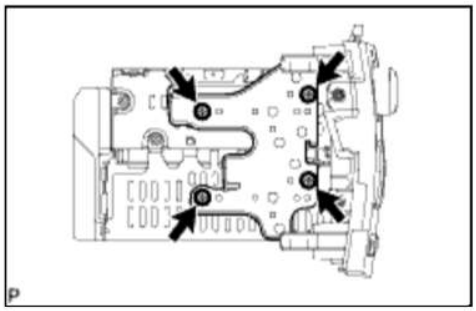
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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAH00JX
Title: AUDIO / VIDEO: RADIO RECEIVER: INSTALLATION (2010 Corolla)		

INSTALLATION

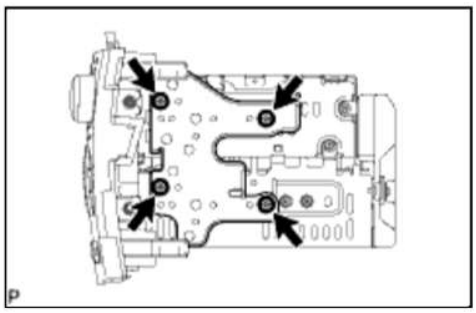
1. INSTALL RADIO RECEIVER ASSEMBLY

2. INSTALL NO. 1 RADIO BRACKET



(a) Install the No. 1 radio bracket with the 4 screws.

3. INSTALL NO. 2 RADIO BRACKET



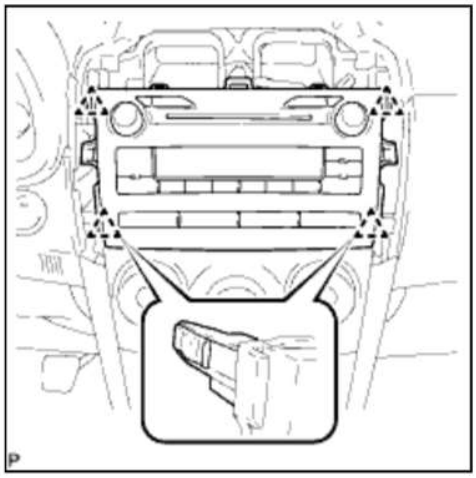
(a) Install the No. 2 radio bracket with the 4 screws.

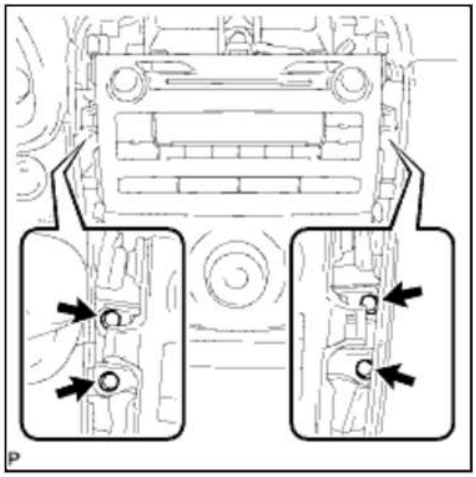
4. INSTALL RADIO RECEIVER WITH BRACKET

(a) Connect each connector.

(b) Engage the 4 clips.

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(c) Install the radio receiver with bracket with the 4 bolts.

5. INSTALL CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

6. INSTALL INSTRUMENT PANEL FINISH PANEL END LH INFO

7. INSTALL INSTRUMENT PANEL FINISH PANEL END RH INFO

8. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

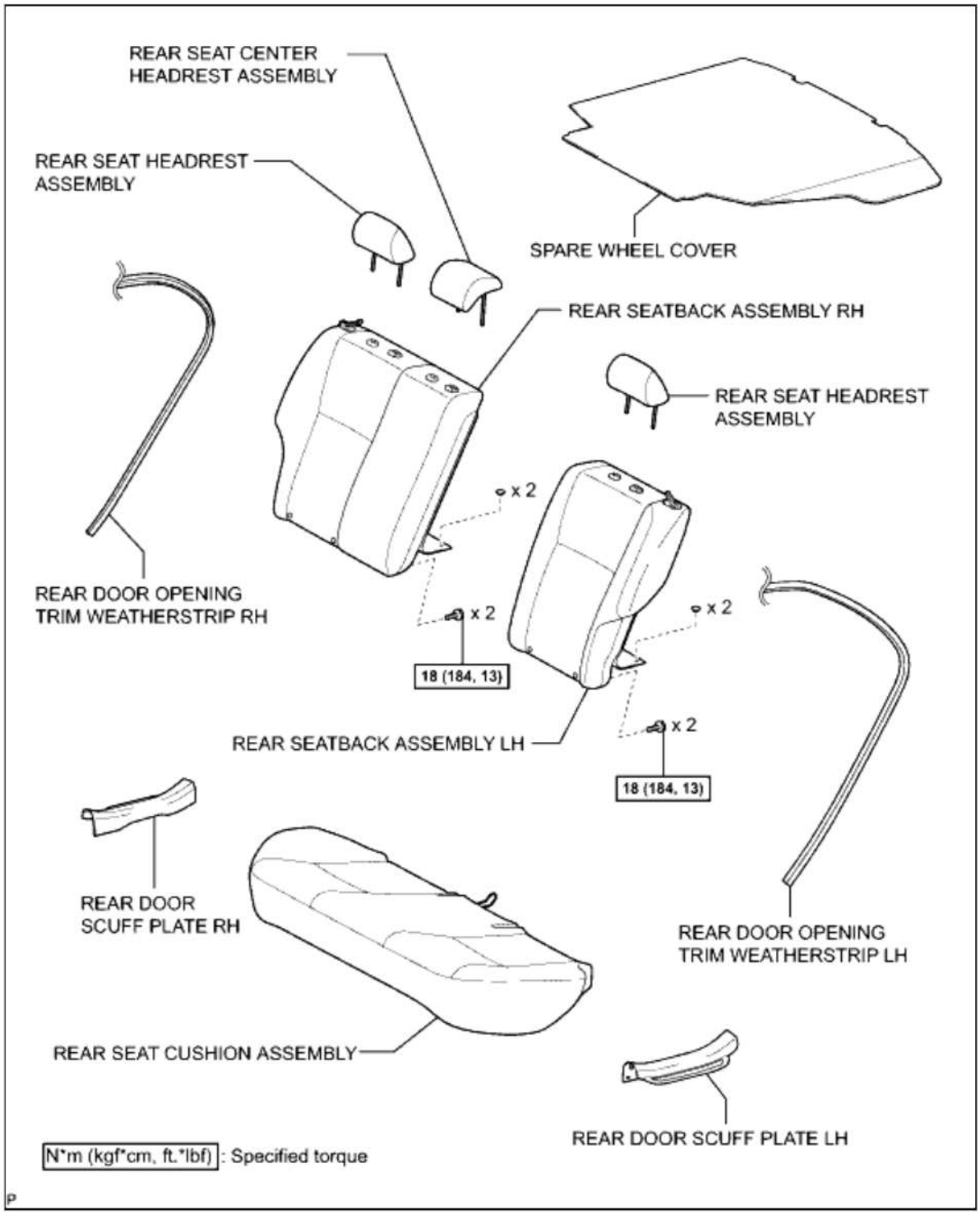
9. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAX00FX
Title: AUDIO / VIDEO: REAR PACKAGE TRAY SPEAKER: COMPONENTS (2010 Corolla)		

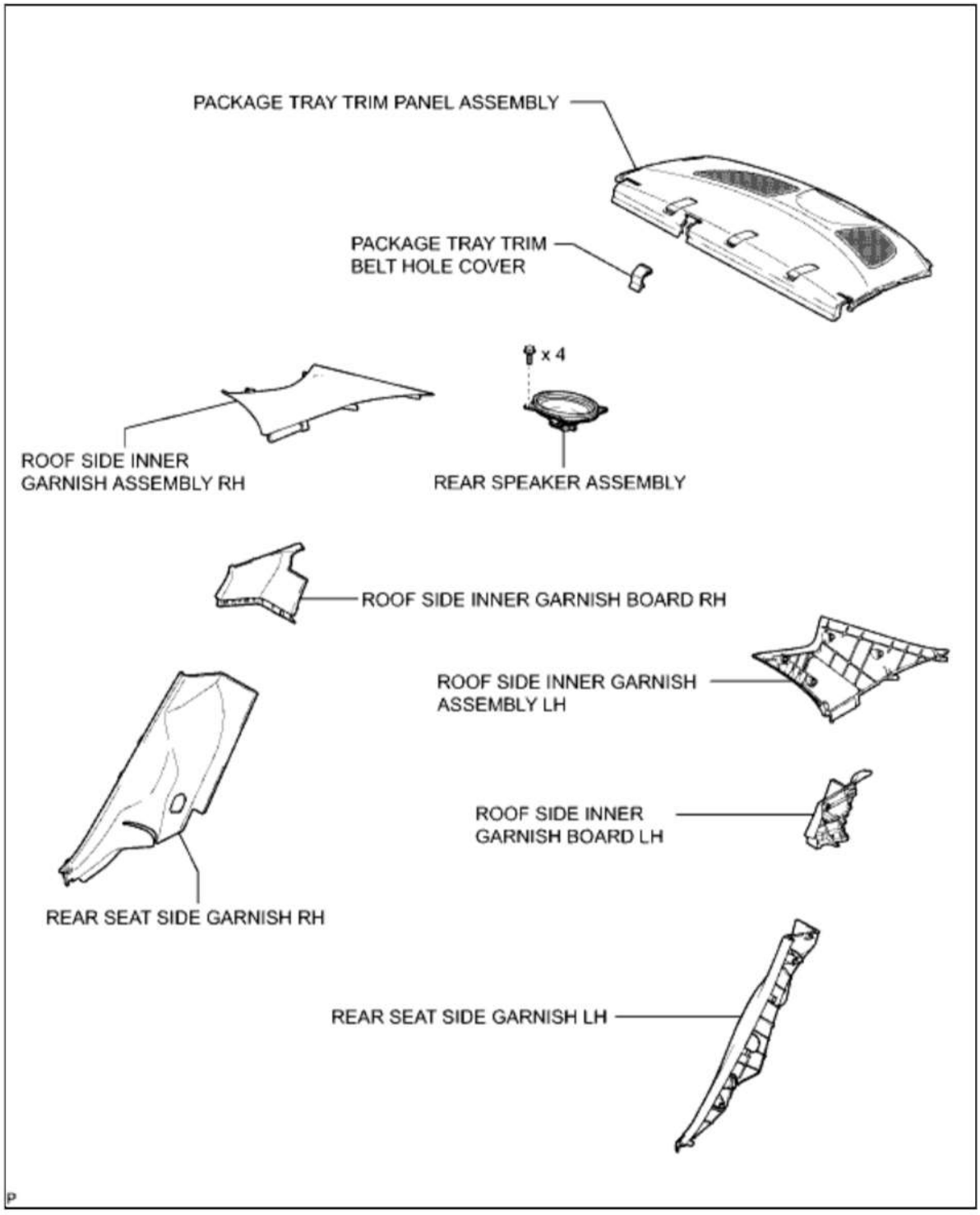
COMPONENTS

ILLUSTRATION



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ILLUSTRATION



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Last Modified: 3-10-2010	6.4 G	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020Q301TX
Title: AUDIO / VIDEO: REAR PACKAGE TRAY SPEAKER: ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. INSPECT REAR SPEAKER

HINT:

Remove interior parts so that the rear speaker can be seen.

(a) Check the speaker installation.

OK:
The speaker is securely installed.

If the result is not as specified, reinstall the rear speaker.

(b) Visually check the speaker.

OK:
The cone paper of the speaker is not torn.

If the result is not as specified, replace the rear speaker.

(c) Speaker resistance check

(1) Disconnect the rear speaker connector.

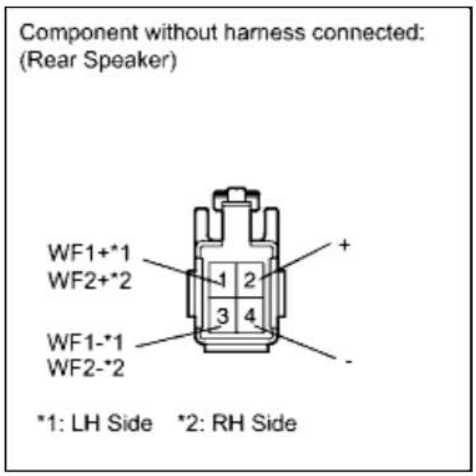
(2) for 8 Speakers:

Measure the resistance between the terminals of the speaker.

Standard Resistance:

for Tweeter

for Woofer



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 (WF1+) - 3 (WF1-)*1	Always	5.9 to 7.1 Ω
1 (WF2+) - 3 (WF2-)*2	Always	5.9 to 7.1 Ω

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
2 (+) - 4 (-)	Always	1.8 to 2.6 Ω

*1: LH Side

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*2: RH Side

If the result is not as specified, replace the rear speaker.

(3) Except for 8 Speakers:

Measure the resistance between the terminals of the speaker.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	Always	3.2 to 4.8 Ω

If the result is not as specified, replace the rear speaker.



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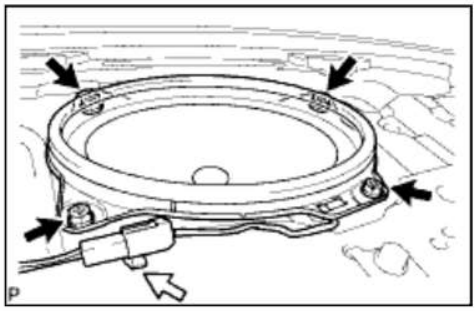
Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAY00IX
Title: AUDIO / VIDEO: REAR PACKAGE TRAY SPEAKER: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE SPARE WHEEL COVER INFO
2. REMOVE REAR SEAT HEADREST ASSEMBLY LH
3. REMOVE REAR SEAT HEADREST ASSEMBLY RH
4. REMOVE REAR SEAT CENTER HEADREST ASSEMBLY
5. REMOVE REAR SEAT CUSHION ASSEMBLY INFO
6. REMOVE REAR SEATBACK ASSEMBLY LH INFO
7. REMOVE REAR SEATBACK ASSEMBLY RH INFO
8. REMOVE REAR DOOR SCUFF PLATE LH INFO
9. DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP LH
10. REMOVE REAR SEAT SIDE GARNISH LH INFO
11. REMOVE ROOF SIDE INNER GARNISH BOARD LH INFO
12. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY LH INFO
13. REMOVE REAR DOOR SCUFF PLATE RH INFO
14. DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP RH
15. REMOVE REAR SEAT SIDE GARNISH RH INFO
16. REMOVE ROOF SIDE INNER GARNISH BOARD RH INFO
17. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY RH INFO
18. REMOVE PACKAGE TRAY TRIM BELT HOLE COVER INFO
19. REMOVE PACKAGE TRAY TRIM PANEL ASSEMBLY (w/o Rear Spoiler) INFO
20. REMOVE PACKAGE TRAY TRIM PANEL ASSEMBLY (w/ Rear Spoiler) INFO
21. REMOVE REAR SPEAKER ASSEMBLY

(a) Disconnect the connector.

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(b) Remove the 4 bolts and rear speaker assembly.

NOTICE:

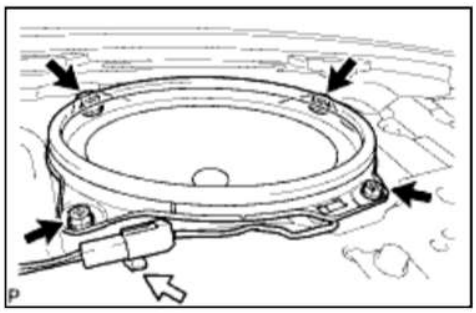
Do not touch the cone part of the speaker.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAW00IX
Title: AUDIO / VIDEO: REAR PACKAGE TRAY SPEAKER: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL REAR SPEAKER ASSEMBLY



(a) Install the rear speaker assembly with the 4 bolts.

(b) Connect the connector.

2. INSTALL PACKAGE TRAY TRIM PANEL ASSEMBLY (w/o Rear Spoiler) INFO

3. INSTALL PACKAGE TRAY TRIM PANEL ASSEMBLY (w/ Rear Spoiler) INFO

4. INSTALL PACKAGE TRAY TRIM BELT HOLE COVER INFO

5. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY LH INFO

6. INSTALL ROOF SIDE INNER GARNISH BOARD LH INFO

7. INSTALL REAR SEAT SIDE GARNISH LH INFO

8. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH INFO

9. INSTALL REAR DOOR SCUFF PLATE LH INFO

10. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY RH INFO

11. INSTALL ROOF SIDE INNER GARNISH BOARD RH INFO

12. INSTALL REAR SEAT SIDE GARNISH RH INFO

13. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP RH INFO

14. INSTALL REAR DOOR SCUFF PLATE RH INFO

15. INSTALL REAR SEATBACK ASSEMBLY LH INFO

16. INSTALL REAR SEATBACK ASSEMBLY RH INFO

17. INSTALL REAR SEAT CUSHION ASSEMBLY INFO

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18. INSTALL REAR SEAT CENTER HEADREST ASSEMBLY

19. INSTALL REAR SEAT HEADREST ASSEMBLY LH

20. INSTALL REAR SEAT HEADREST ASSEMBLY RH

21. INSTALL SPARE WHEEL COVER INFO

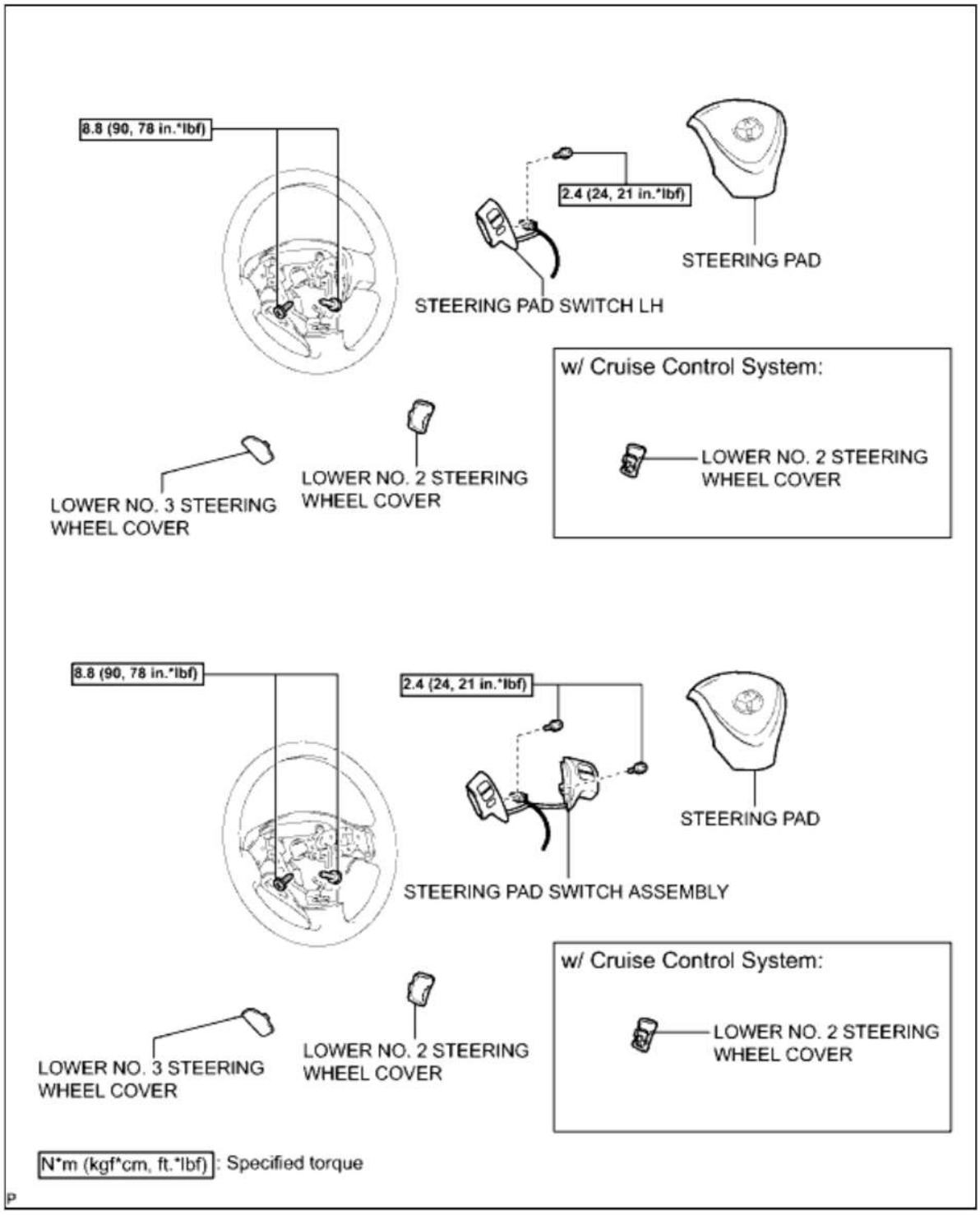


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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XBI00PX
Title: AUDIO / VIDEO: STEERING PAD SWITCH: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XBJ00WX
Title: AUDIO / VIDEO: STEERING PAD SWITCH: REMOVAL (2010 Corolla)		

REMOVAL

1. PRECAUTION

INFO

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

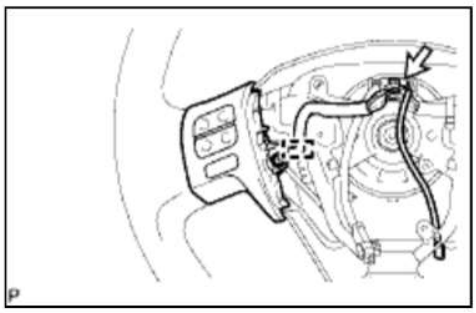
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

3. REMOVE LOWER NO. 3 STEERING WHEEL COVER INFO

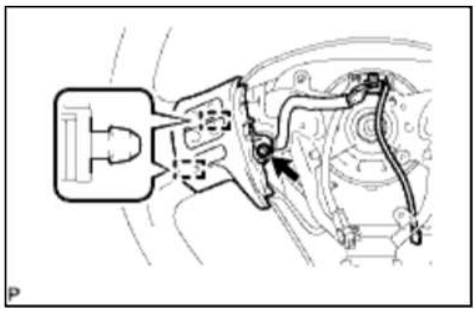
4. REMOVE LOWER NO. 2 STEERING WHEEL COVER INFO

5. REMOVE STEERING PAD INFO

6. REMOVE STEERING PAD SWITCH LH



(a) Disconnect the pad switch connector from the spiral cable and disengage the clamp.

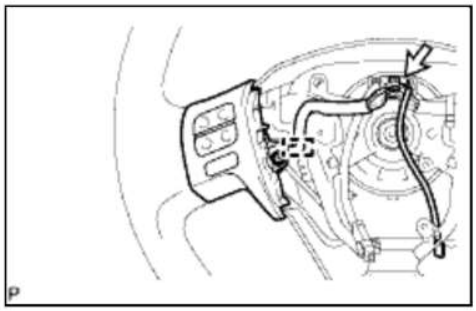


(b) Remove the screw.

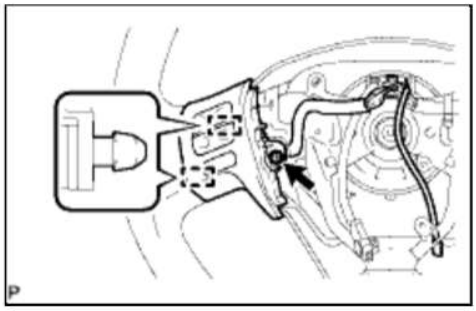
(c) Disengage the 2 pins and remove the steering pad switch LH.

7. REMOVE STEERING PAD SWITCH ASSEMBLY

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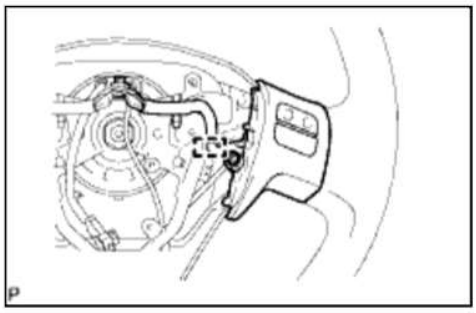


(a) Disconnect the pad switch connector from the spiral cable and disengage the clamp.

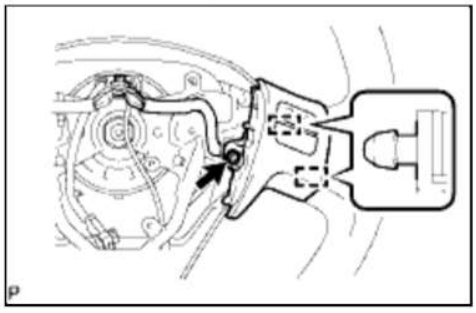


(b) Remove the screw.

(c) Disengage the 2 pins and remove the steering pad switch.



(d) Disengage the clamp.



(e) Remove the screw.

(f) Disengage the 2 pins and remove the steering pad switch assembly.

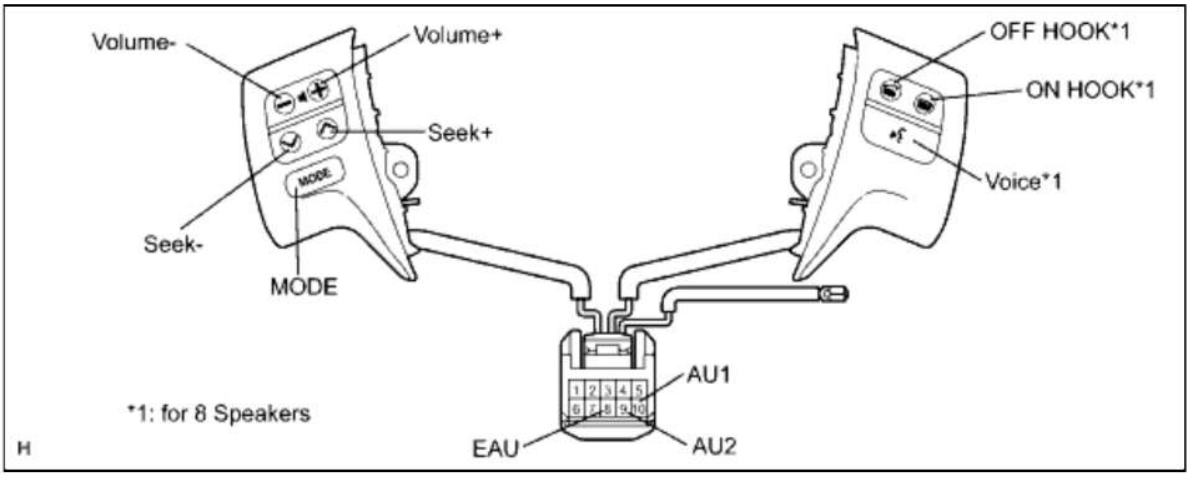
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Last Modified: 3-10-2010	6.4 G	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020Q602BX
Title: AUDIO / VIDEO: STEERING PAD SWITCH: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT STEERING PAD SWITCH ASSEMBLY

(a) Disconnect the steering pad switch assembly connector.



(b) Measure the resistance according to the values in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
10 (AU1) - 8 (EAU)	No switch is pushed	95 to 105 kΩ
10 (AU1) - 8 (EAU)	Seek+ switch: pushed	0 to 2.5 Ω
10 (AU1) - 8 (EAU)	Seek- switch: pushed	313.5 to 346.5 Ω
10 (AU1) - 8 (EAU)	Volume+ switch: pushed	959.5 to 1060.5 Ω
10 (AU1) - 8 (EAU)	Volume- switch: pushed	3049.5 to 3370.5 Ω
9 (AU2) - 8 (EAU)	No switch is pushed	95 to 105 kΩ
9 (AU2) - 8 (EAU)	MODE switch: pushed	0 to 2.5 Ω
9 (AU2) - 8 (EAU)	Voice switch: pushed*1	3049.5 to 3370.5 Ω
9 (AU2) - 8 (EAU)	ON HOOK switch: pushed*1	313.5 to 346.5 Ω
9 (AU2) - 8 (EAU)	OFF HOOK switch: pushed*1	959.5 to 1060.5 Ω

- *1: for 8 Speakers

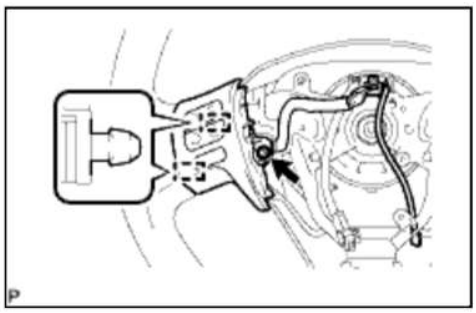
If the result is not as specified, replace the steering pad switch assembly.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XBH00WX
Title: AUDIO / VIDEO: STEERING PAD SWITCH: INSTALLATION (2010 Corolla)		

INSTALLATION

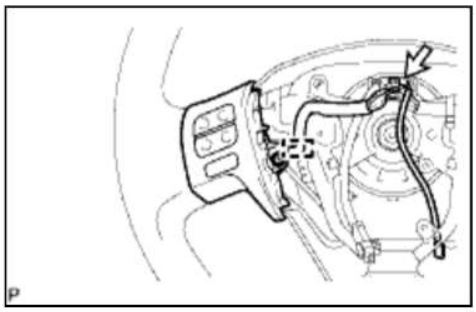
1. INSTALL STEERING PAD SWITCH LH



(a) Engage the 2 pins and install the steering pad switch LH.

(b) Install the screw.

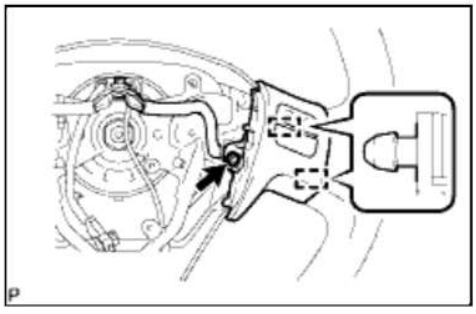
Torque: 2.4 N·m (24 kgf·cm, 21in·lbf)



(c) Engage the clamp.

(d) Connect the connector to the spiral cable.

2. INSTALL STEERING PAD SWITCH ASSEMBLY

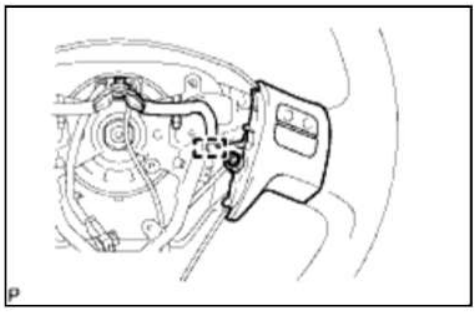


(a) Engage the 2 pins and install the steering pad switch assembly.

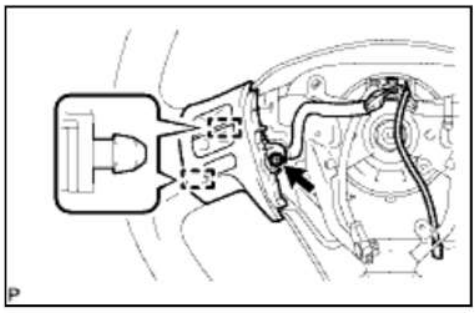
(b) Install the screw.

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Torque: 2.4 N·m (24 kgf·cm, 21in·lbf)



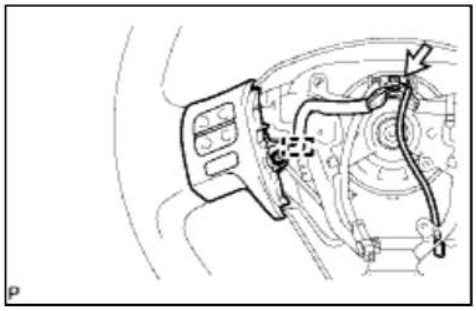
(c) Engage the clamp.



(d) Engage the 2 pins and install the steering pad switch.

(e) Install the screw.

Torque: 2.4 N·m (24 kgf·cm, 21in·lbf)



(f) Engage the clamp.

(g) Connect the connector to the spiral cable.

3. INSTALL STEERING PAD INFO

4. INSTALL LOWER NO. 3 STEERING WHEEL COVER INFO

5. INSTALL LOWER NO. 2 STEERING WHEEL COVER INFO

6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

7. INSPECT STEERING PAD INFO

8. INSPECT SRS WARNING LIGHT

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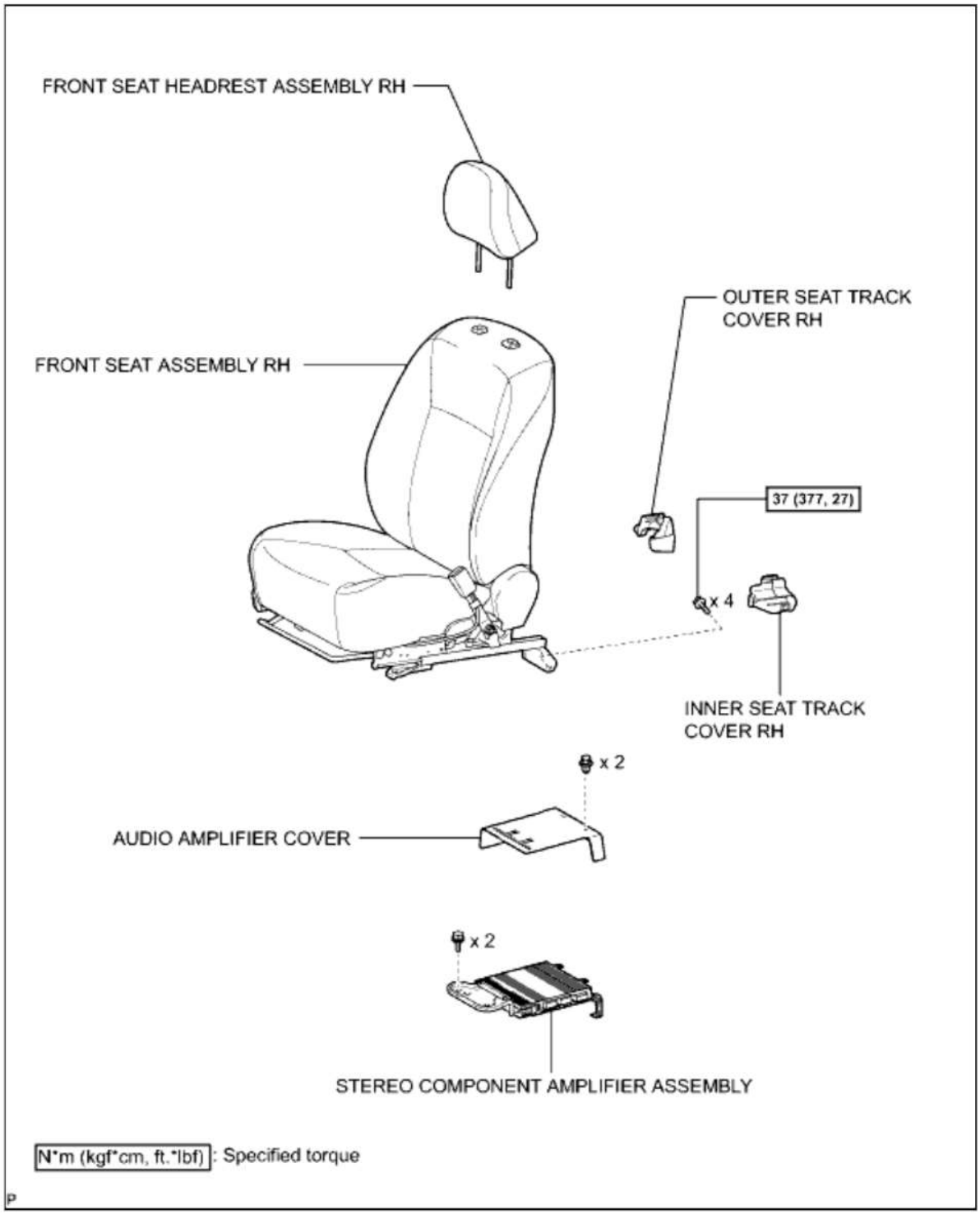


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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003FU6001X
Title: AUDIO / VIDEO: STEREO COMPONENT AMPLIFIER: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003FU7001X
Title: AUDIO / VIDEO: STEREO COMPONENT AMPLIFIER: REMOVAL (2010 Corolla)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL (w/ Front Seat Side Airbag)

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE FRONT SEAT HEADREST ASSEMBLY RH

3. REMOVE OUTER SEAT TRACK COVER RH

HINT:

Use the same procedure for the RH side and the LH side INFO .

4. REMOVE INNER SEAT TRACK COVER RH

HINT:

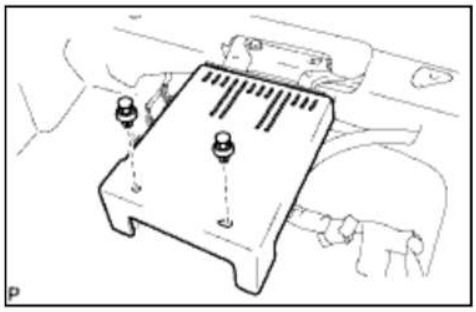
Use the same procedure for the RH side and the LH side INFO .

5. REMOVE FRONT SEAT ASSEMBLY RH

HINT:

Use the same procedure for the RH side and the LH side INFO .

6. REMOVE AUDIO AMPLIFIER COVER



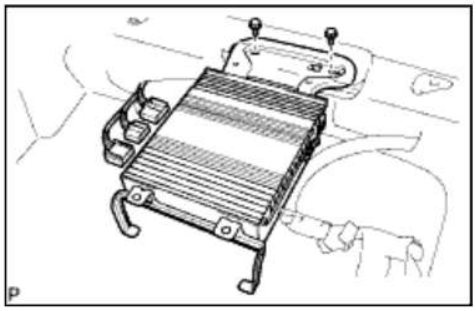
(a) Disengage the 2 clips and remove the audio amplifier cover.

7. REMOVE STEREO COMPONENT AMPLIFIER ASSEMBLY

(a) Disconnect each connector.

(b) Remove the 2 bolts and stereo component amplifier assembly.

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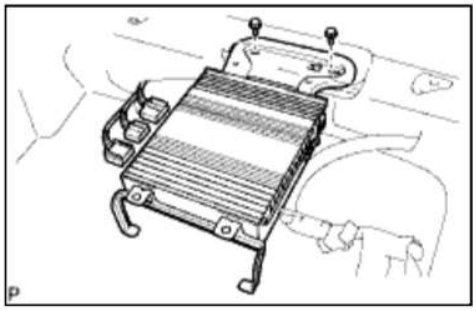


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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003FU5001X
Title: AUDIO / VIDEO: STEREO COMPONENT AMPLIFIER: INSTALLATION (2010 Corolla)		

INSTALLATION

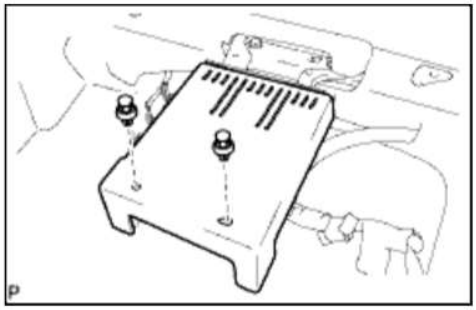
1. INSTALL STEREO COMPONENT AMPLIFIER ASSEMBLY



(a) Install the stereo component amplifier assembly with the 2 bolts.

(b) Connect each connector.

2. INSTALL AUDIO AMPLIFIER COVER



(a) Engage the 2 clips and install the audio amplifier cover.

3. INSTALL FRONT SEAT ASSEMBLY RH

HINT:

Use the same procedure for the RH side and the LH side INFO .

4. INSPECT FRONT SEAT SLIDE ADJUSTER LOCK INFO

5. INSTALL INNER SEAT TRACK COVER RH

HINT:

Use the same procedure for the RH side and the LH side INFO .

6. INSTALL OUTER SEAT TRACK COVER RH

HINT:

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Use the same procedure for the RH side and the LH side INFO .

7. INSTALL FRONT SEAT HEADREST ASSEMBLY RH

8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL (w/ Front Seat Side Airbag)

9. INSPECT SRS WARNING LIGHT (w/ Front Seat Side Airbag)

INFO

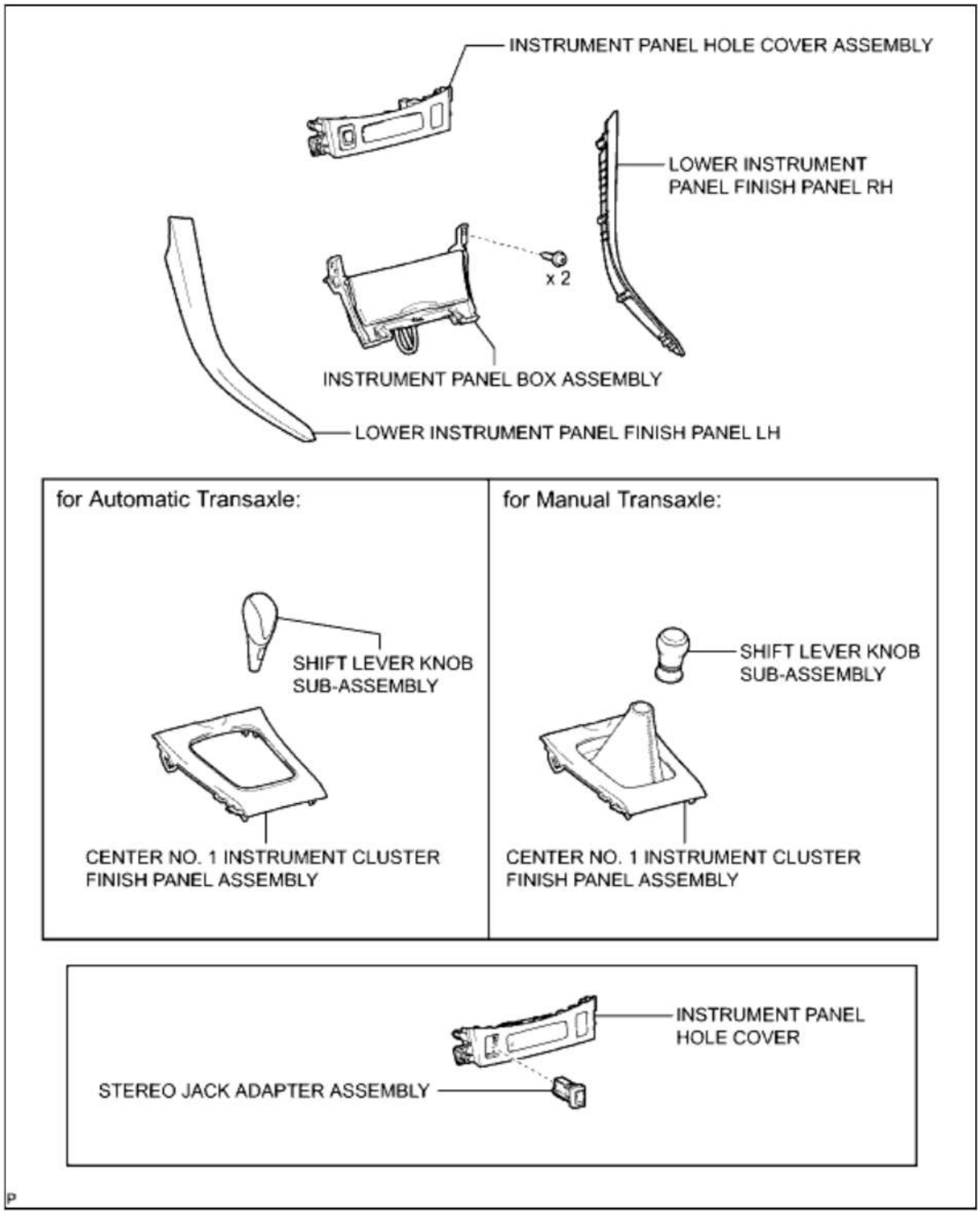


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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003FUC001X
Title: AUDIO / VIDEO: STEREO JACK ADAPTER ASSEMBLY: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



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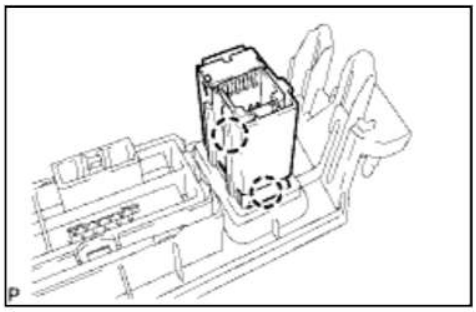


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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003FUD001X
Title: AUDIO / VIDEO: STEREO JACK ADAPTER ASSEMBLY: REMOVAL (2010 Corolla)		

REMOVAL

1. **REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH** INFO
2. **REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH** INFO
3. **REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle)** INFO
4. **REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle)** INFO
5. **REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle)** INFO
6. **REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle)** INFO
7. **REMOVE INSTRUMENT PANEL BOX ASSEMBLY** INFO
8. **REMOVE INSTRUMENT PANEL HOLE COVER ASSEMBLY** INFO
9. **REMOVE STEREO JACK ADAPTER ASSEMBLY**



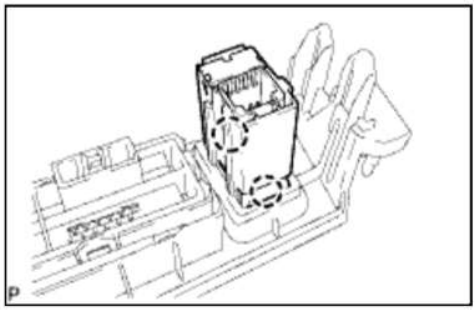
(a) Disengage the 2 claws and remove the stereo jack adapter assembly.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003FUB001X
Title: AUDIO / VIDEO: STEREO JACK ADAPTER ASSEMBLY: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL STEREO JACK ADAPTER ASSEMBLY



(a) Engage the 2 claws and install the stereo jack adapter assembly.

2. INSTALL INSTRUMENT PANEL HOLE COVER ASSEMBLY INFO

3. INSTALL INSTRUMENT PANEL BOX ASSEMBLY INFO

4. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle) INFO

5. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle) INFO

6. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle) INFO

7. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle) INFO

8. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

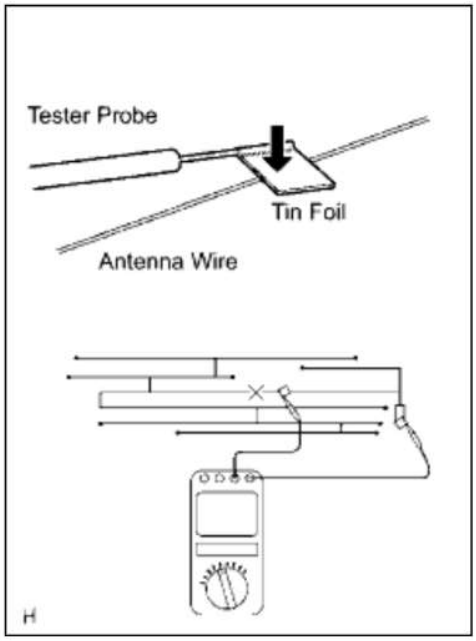
9. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

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Last Modified: 3-10-2010	6.4 G	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020Q701KX
Title: AUDIO / VIDEO: WINDOW GLASS ANTENNA WIRE: ON-VEHICLE INSPECTION (2010 Corolla)		

ON-VEHICLE INSPECTION

1. INSPECT WINDOW GLASS ANTENNA WIRE



(a) Check for continuity of the antenna.

HINT:

Check for continuity at the center of each antenna wire as shown in the illustration.

NOTICE:

- When cleaning the glass, wipe it in the direction of the wire with a soft dry cloth. Take care not to damage the wire. Do not use detergents or glass cleaners with abrasive ingredients.
- When measuring voltage, wrap a piece of tin foil around the tip of the negative probe and press the foil against the wire with your finger as shown in the illustration.

OK:

There is continuity in the antenna.

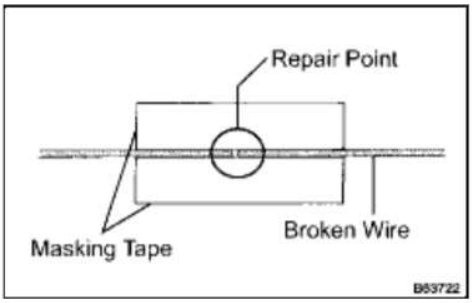
If the result is not specified, repair the window glass antenna wire.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001Q0501LX
Title: AUDIO / VIDEO: WINDOW GLASS ANTENNA WIRE: REPAIR (2010 Corolla)		

REPAIR

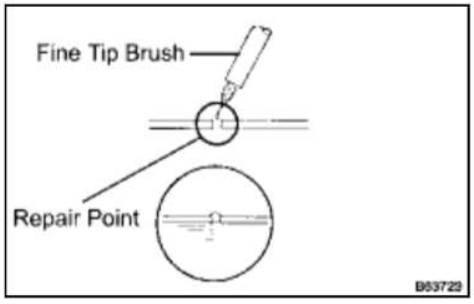
1. REPAIR WINDOW GLASS ANTENNA WIRE



(a) Clean the broken wire tips with grease, wax or silicone remover.

(b) Place masking tape along both sides of the wire to be repaired.

(c) Thoroughly mix the repair agent (Dupont paste No. 4817 or equivalent).



(d) Using a fine tip brush, apply a small amount of the repair agent to the wire.

(e) After a few minutes, remove the masking tape.

NOTICE:

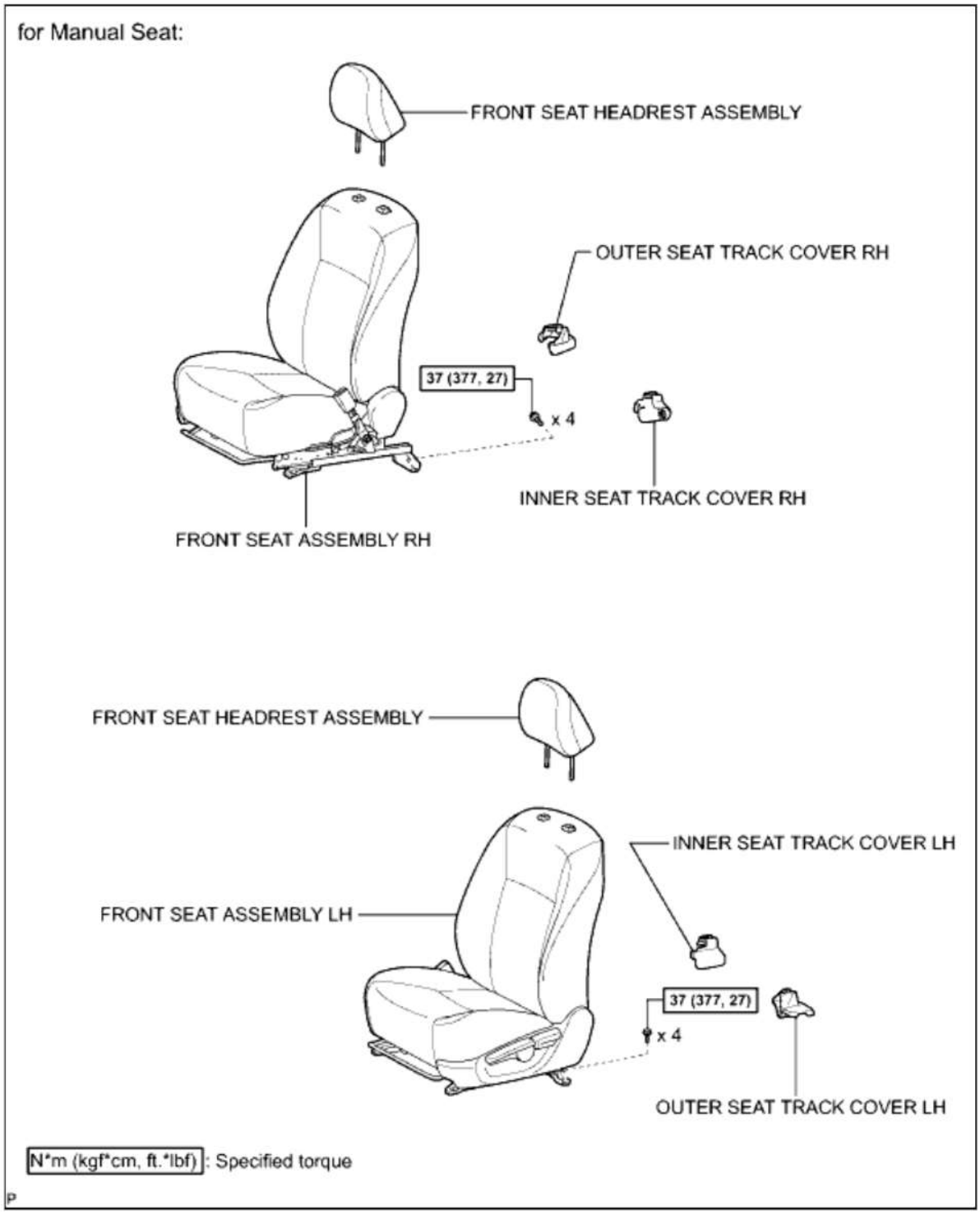
Do not repair the antenna wire for at least 24 hours.

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Last Modified: 3-10-2010	6.4 K	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XB000HX
Title: AUDIO / VIDEO: AMPLIFIER ANTENNA: COMPONENTS (2010 Corolla)		

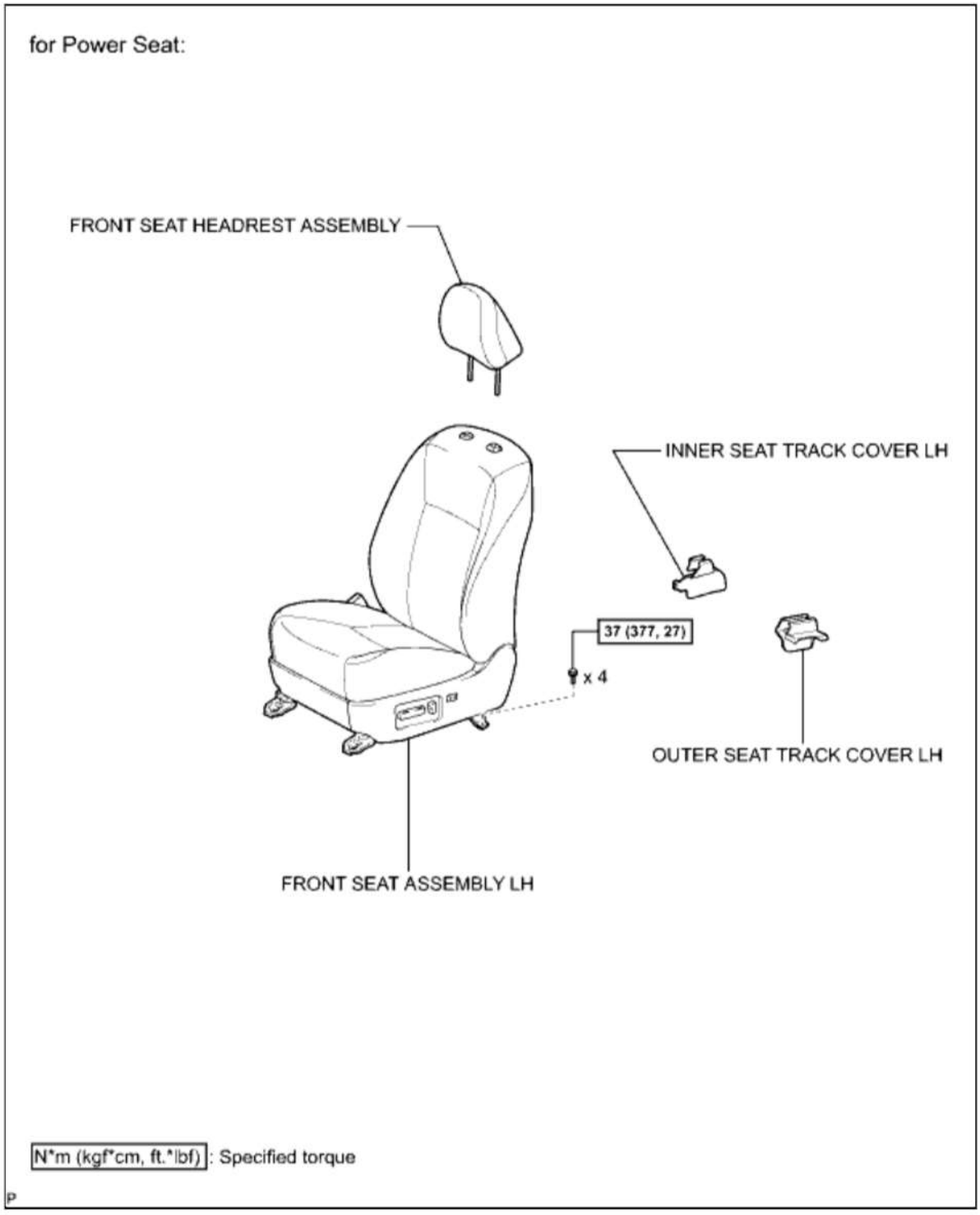
COMPONENTS

ILLUSTRATION



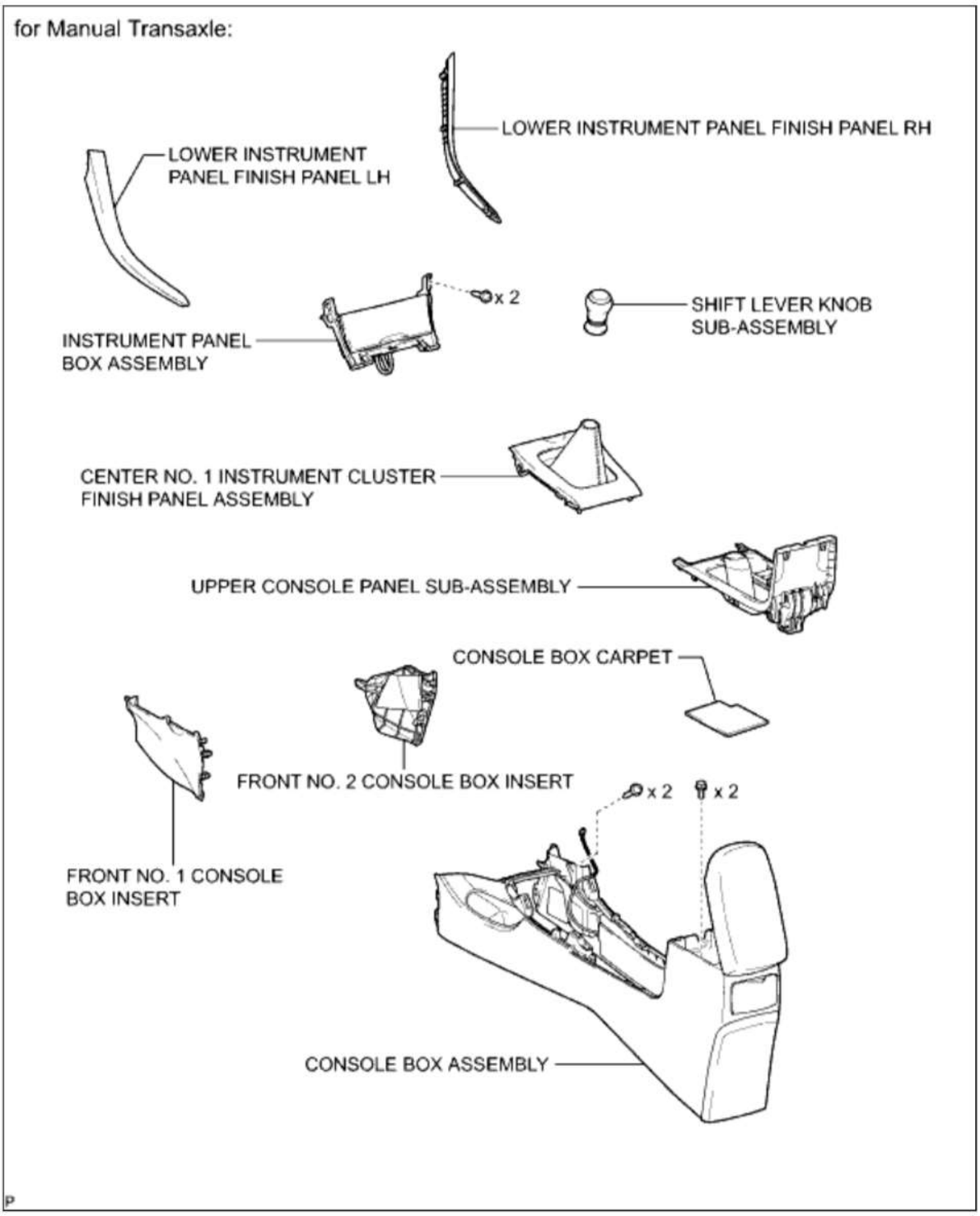
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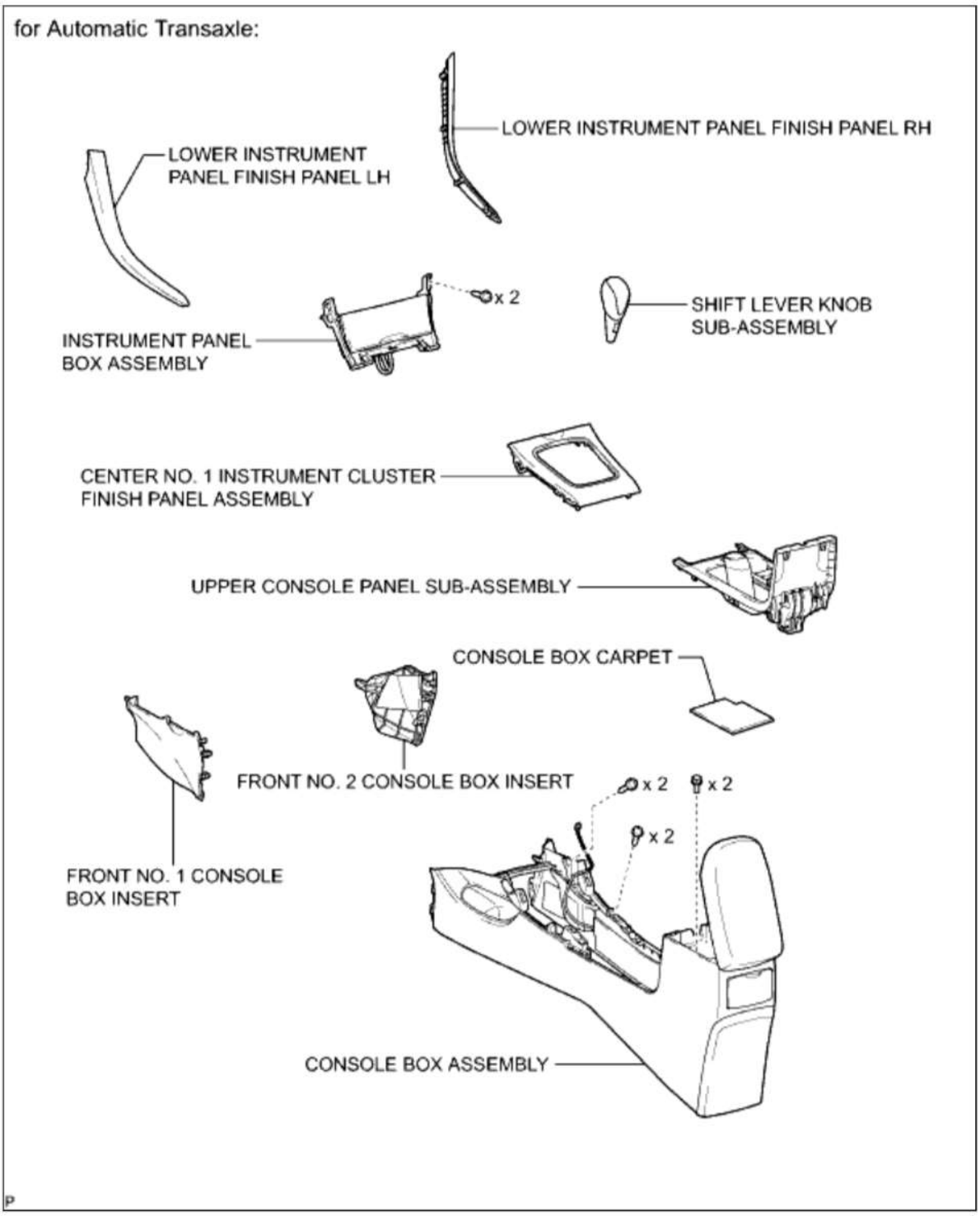
ILLUSTRATION

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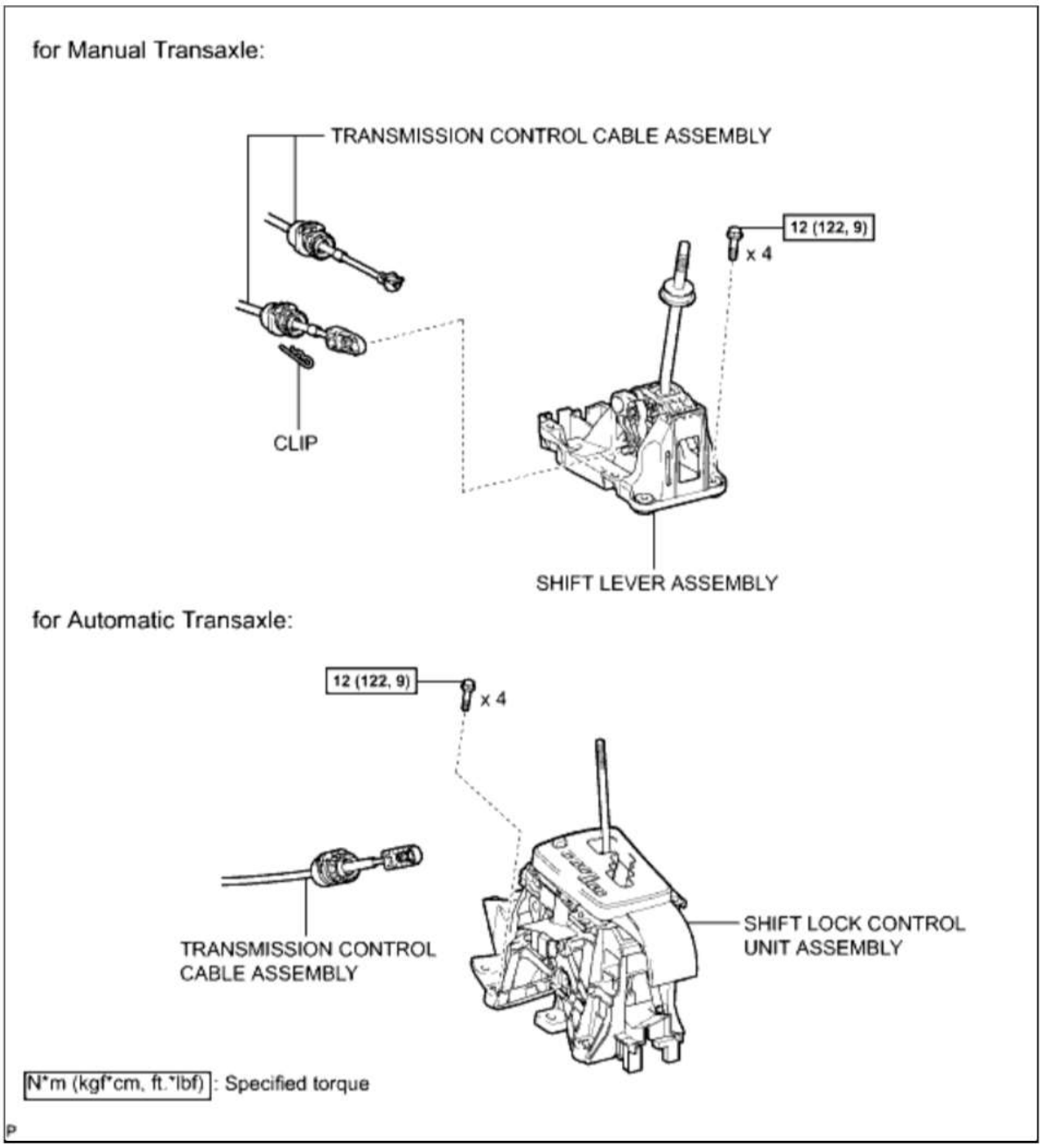
ILLUSTRATION

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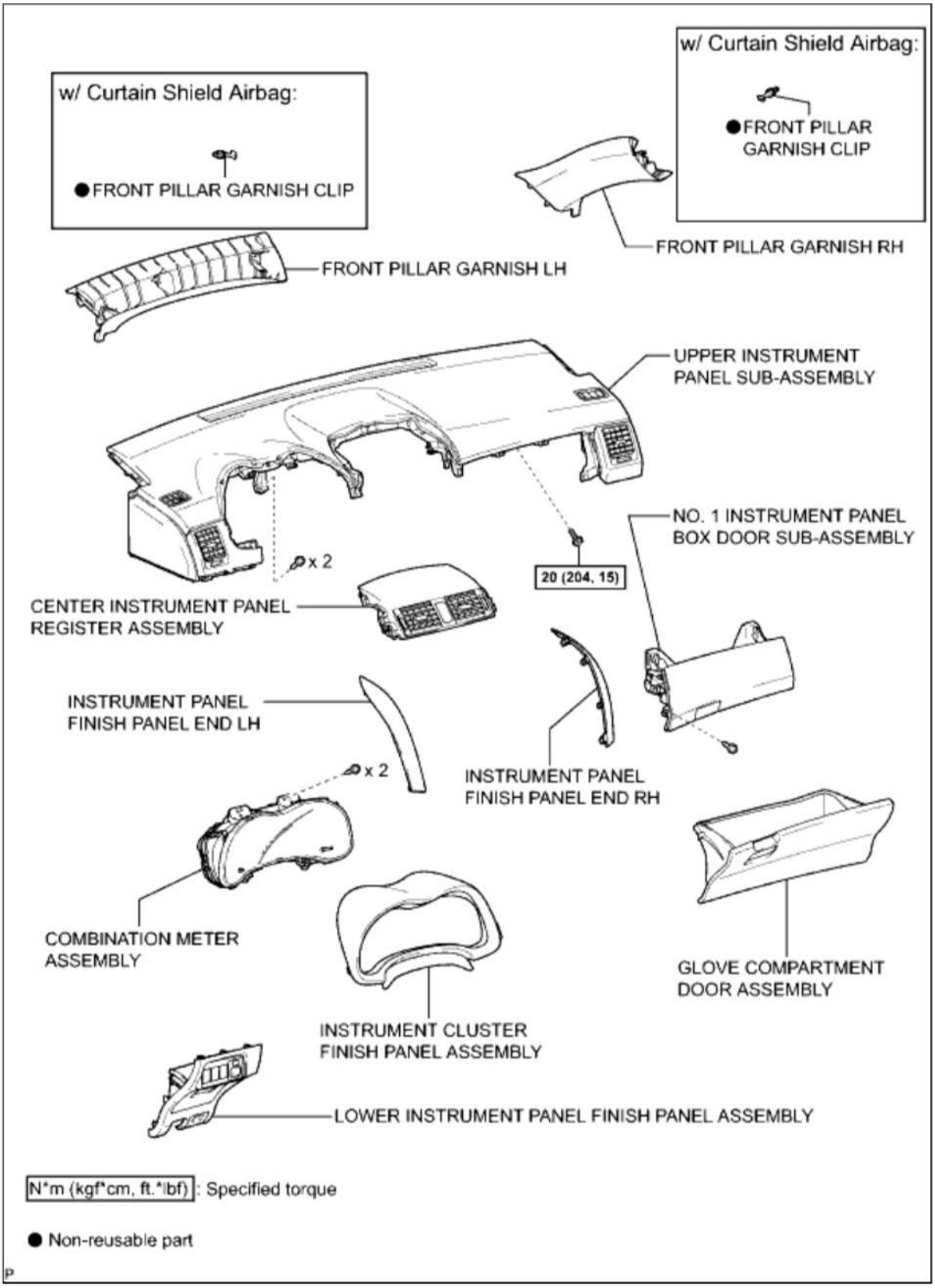
ILLUSTRATION

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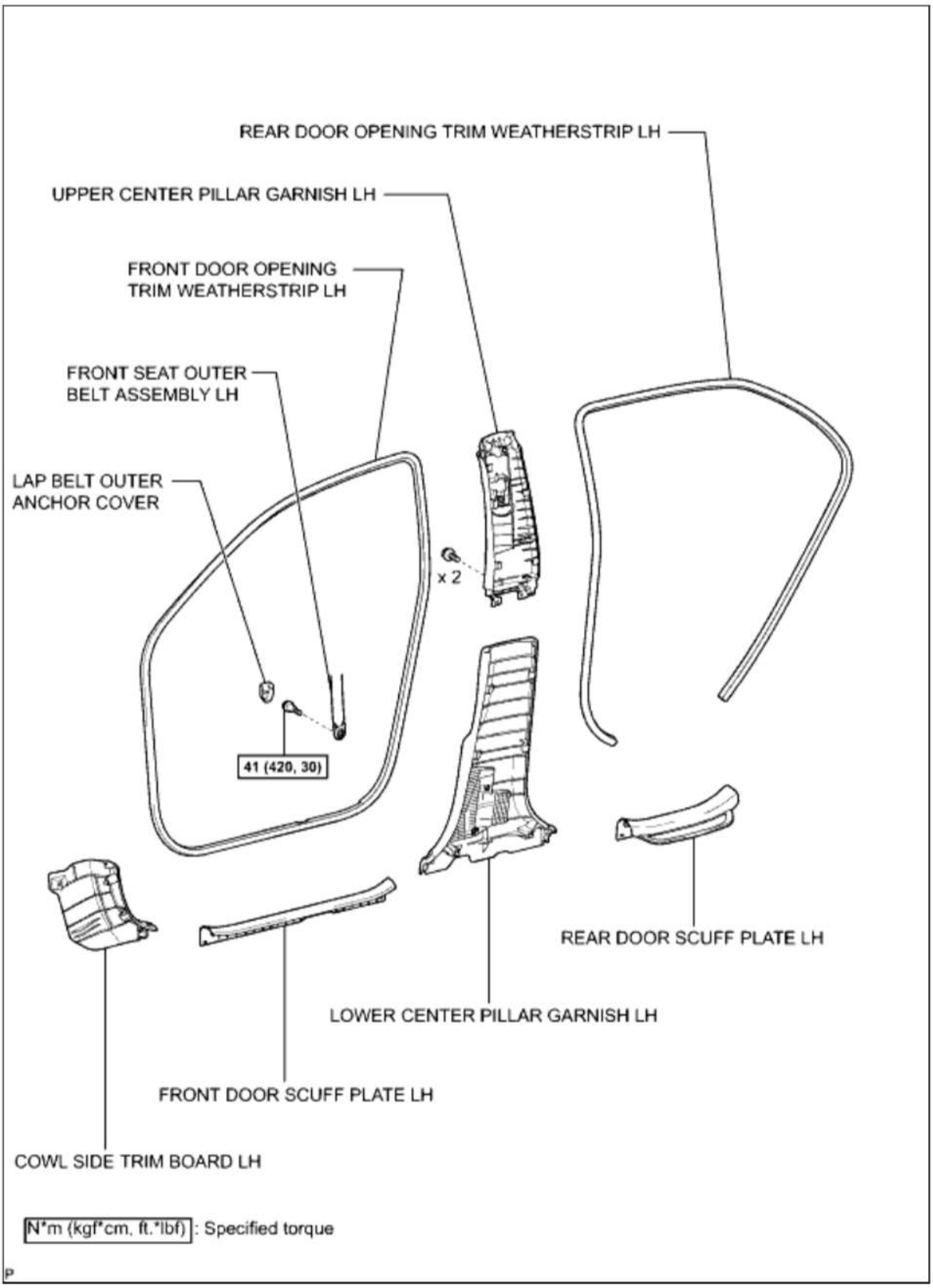
ILLUSTRATION

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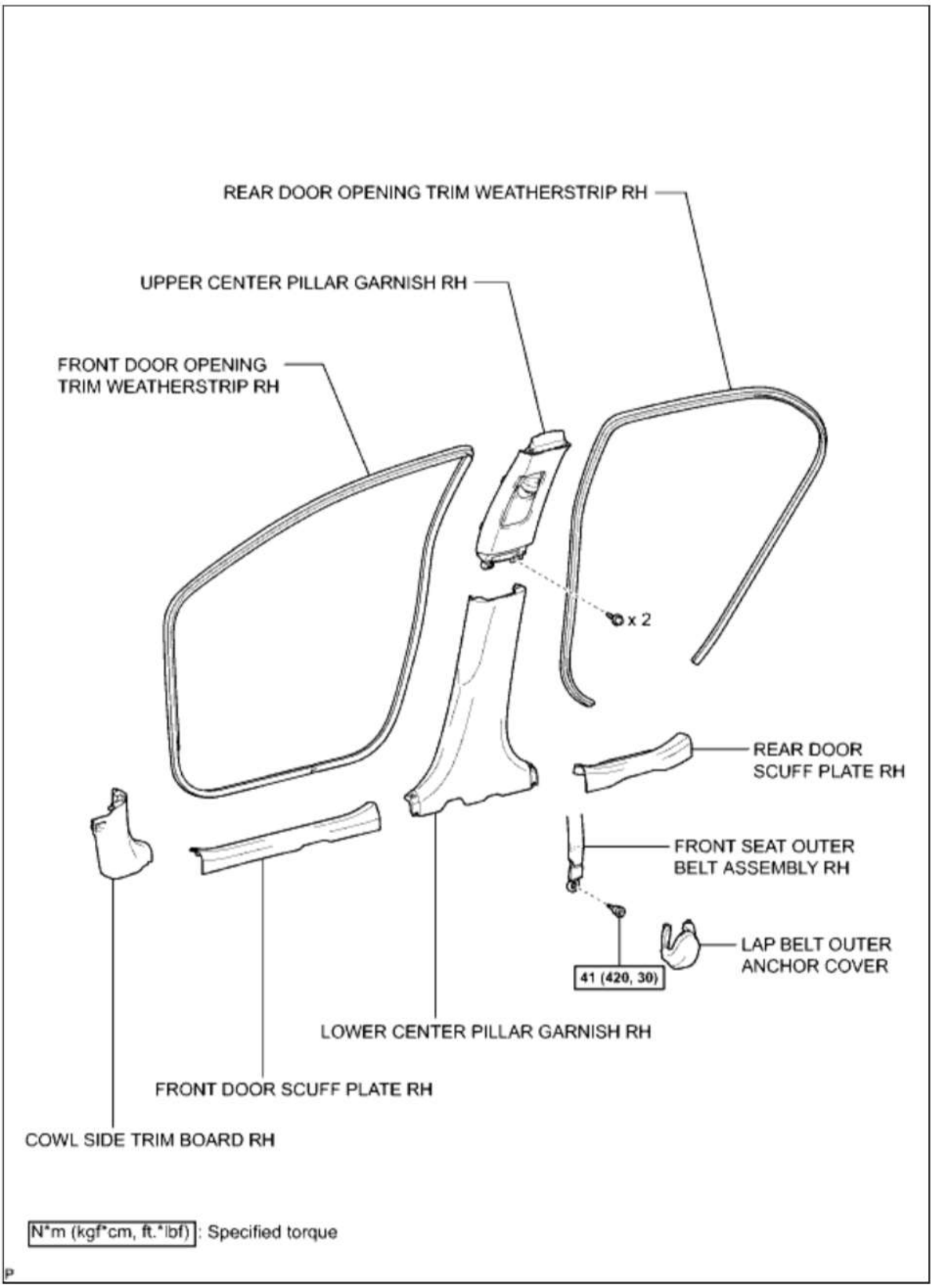
ILLUSTRATION

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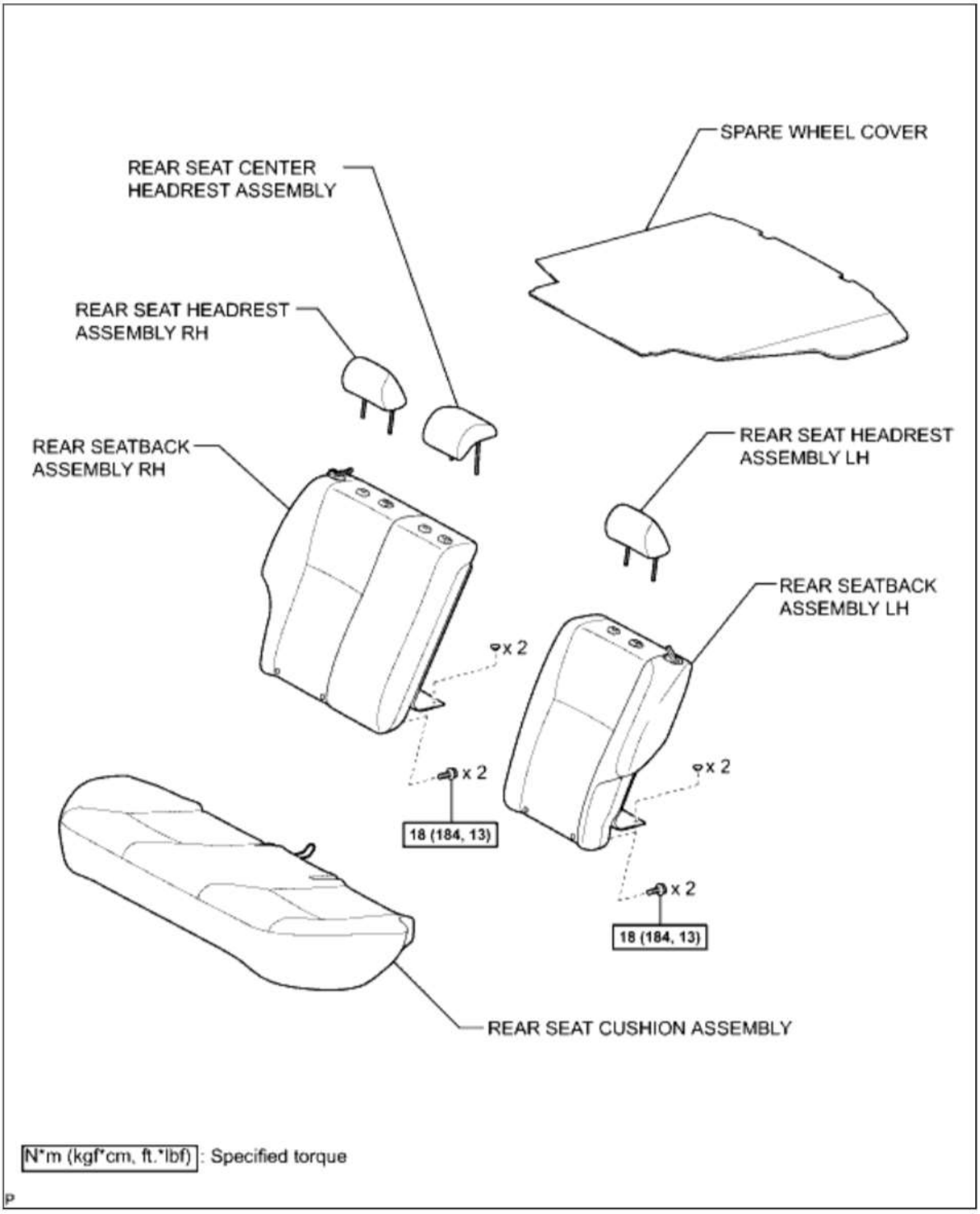
ILLUSTRATION

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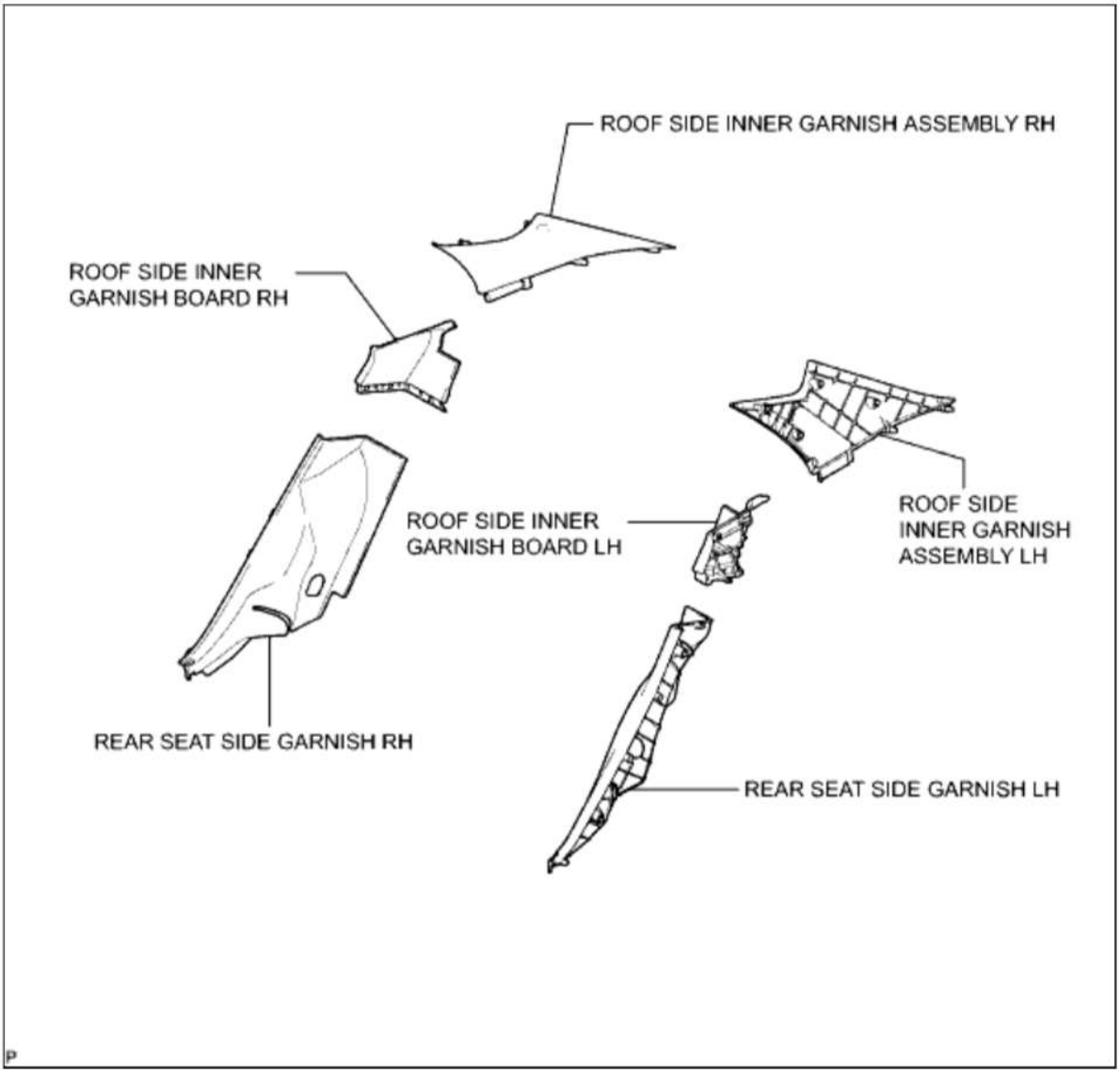
ILLUSTRATION

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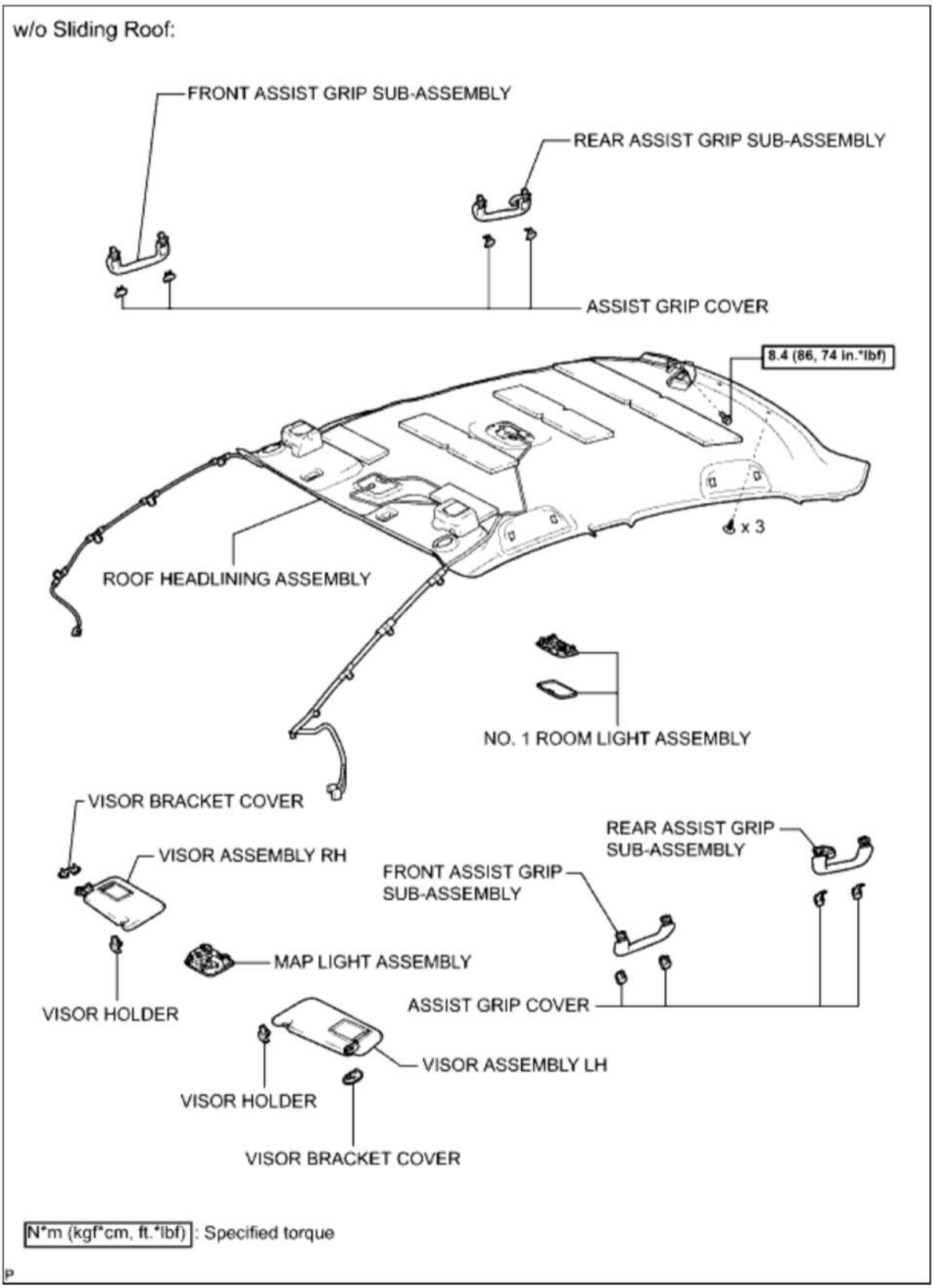
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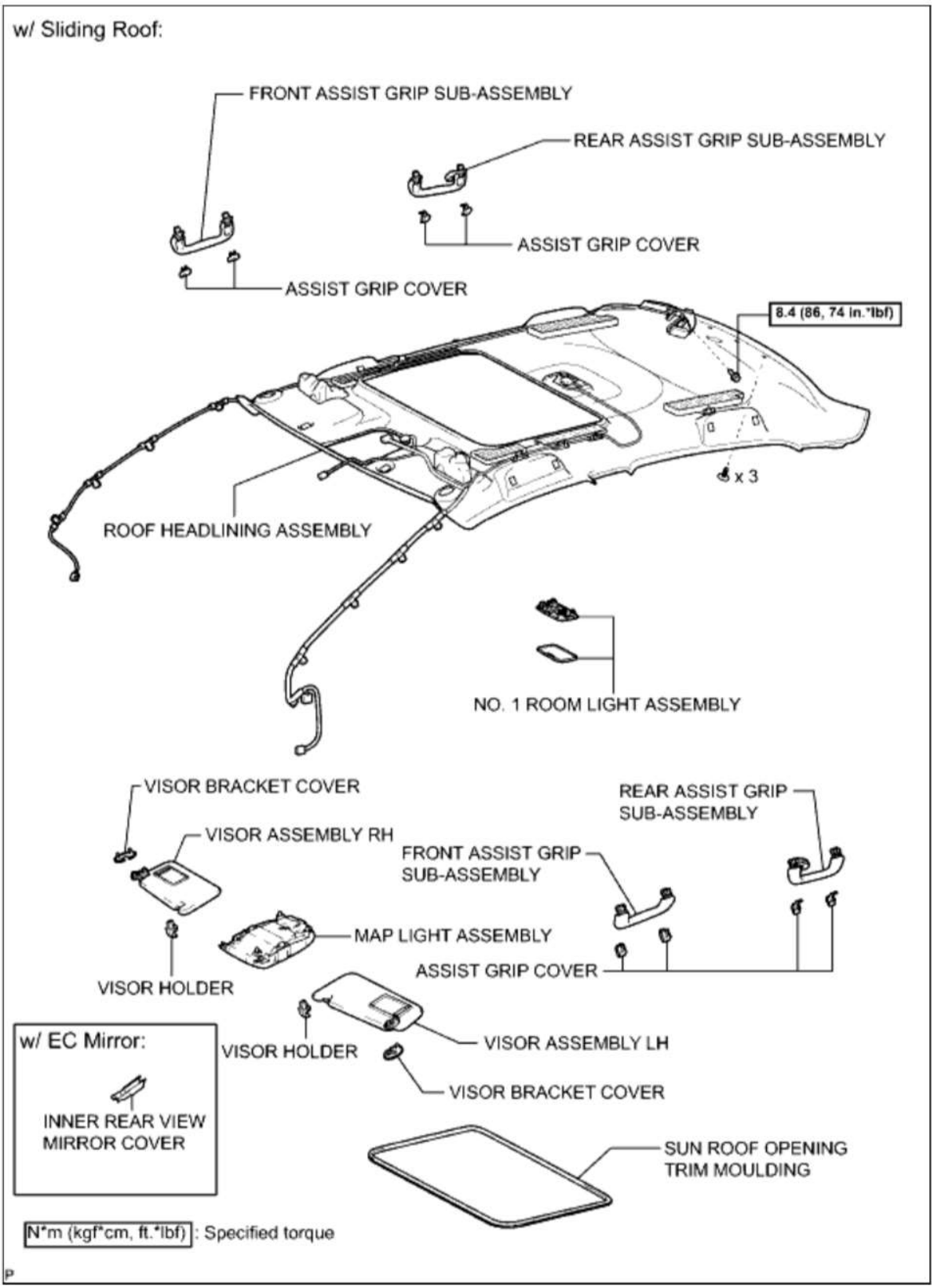
ILLUSTRATION

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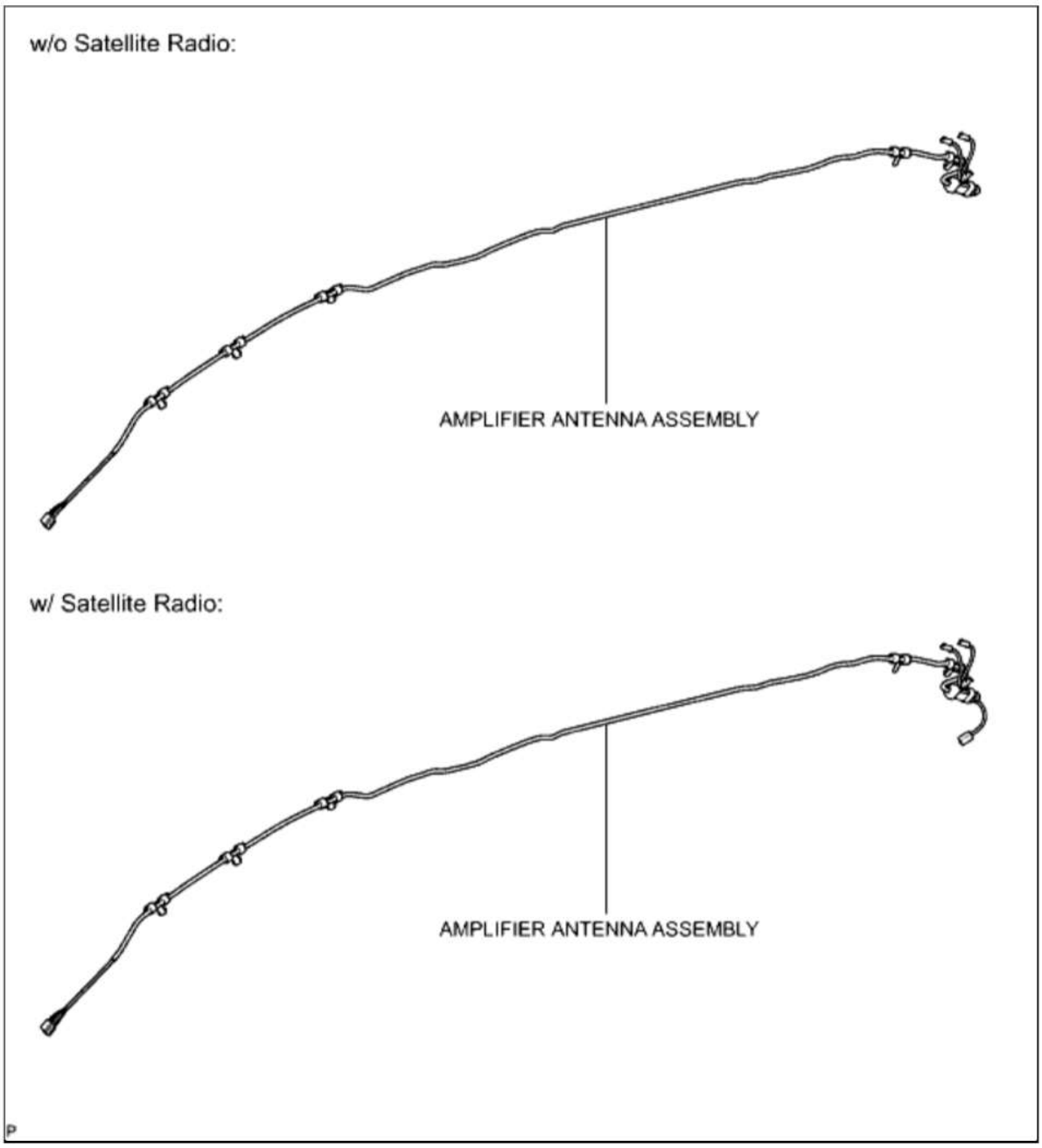
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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XB100JX
Title: AUDIO / VIDEO: AMPLIFIER ANTENNA: REMOVAL (2010 Corolla)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL (for Manual Seat)

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

3. REMOVE OUTER SEAT TRACK COVER LH (for Manual Seat) INFO

4. REMOVE INNER SEAT TRACK COVER LH (for Manual Seat) INFO

5. REMOVE FRONT SEAT ASSEMBLY LH (for Manual Seat) INFO

6. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Power Seat)

7. REMOVE OUTER SEAT TRACK COVER LH (for Power Seat) INFO

8. REMOVE INNER SEAT TRACK COVER LH (for Power Seat) INFO

9. REMOVE FRONT SEAT ASSEMBLY LH (for Power Seat) INFO

10. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

11. REMOVE OUTER SEAT TRACK COVER RH (for Manual Seat) INFO

12. REMOVE INNER SEAT TRACK COVER RH (for Manual Seat) INFO

13. REMOVE FRONT SEAT ASSEMBLY RH (for Manual Seat) INFO

14. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

15. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

16. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle) INFO

17. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle) INFO

18. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle) INFO

19. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle) INFO

20. REMOVE INSTRUMENT PANEL BOX ASSEMBLY INFO

21. REMOVE FRONT NO. 1 CONSOLE BOX INSERT INFO

22. REMOVE FRONT NO. 2 CONSOLE BOX INSERT INFO

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23. REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY INFO

24. REMOVE CONSOLE BOX CARPET INFO

25. REMOVE CONSOLE BOX ASSEMBLY (for Manual Transaxle) INFO

26. REMOVE CONSOLE BOX ASSEMBLY (for Automatic Transaxle) INFO

27. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

28. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

29. REMOVE SHIFT LEVER ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

30. REMOVE SHIFT LOCK CONTROL UNIT ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

31. REMOVE INSTRUMENT PANEL FINISH PANEL END LH INFO

32. REMOVE INSTRUMENT PANEL FINISH PANEL END RH INFO

33. REMOVE CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

34. REMOVE INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY INFO

35. REMOVE COMBINATION METER ASSEMBLY INFO

36. REMOVE FRONT PILLAR GARNISH LH (w/o Curtain Shield Airbag) INFO

37. REMOVE FRONT PILLAR GARNISH LH (w/ Curtain Shield Airbag) INFO

38. REMOVE FRONT PILLAR GARNISH RH (w/o Curtain Shield Airbag) INFO

39. REMOVE FRONT PILLAR GARNISH RH (w/ Curtain Shield Airbag) INFO

40. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

41. REMOVE FRONT DOOR SCUFF PLATE LH INFO

42. REMOVE COWL SIDE TRIM BOARD LH INFO

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43. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH INFO
44. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY INFO
45. REMOVE NO. 1 INSTRUMENT PANEL BOX DOOR SUB-ASSEMBLY INFO
46. REMOVE FRONT DOOR SCUFF PLATE RH INFO
47. REMOVE COWL SIDE TRIM BOARD RH INFO
48. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH INFO
49. DISCONNECT INSTRUMENT PANEL WIRE ASSEMBLY INFO
50. REMOVE UPPER INSTRUMENT PANEL SUB-ASSEMBLY INFO
51. REMOVE REAR DOOR SCUFF PLATE LH INFO
52. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH INFO
53. REMOVE LAP BELT OUTER ANCHOR COVER (for LH Side) INFO
54. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY LH INFO
55. REMOVE LOWER CENTER PILLAR GARNISH LH INFO
56. REMOVE UPPER CENTER PILLAR GARNISH LH INFO
57. REMOVE REAR DOOR SCUFF PLATE RH INFO
58. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH INFO
59. REMOVE LAP BELT OUTER ANCHOR COVER (for RH Side) INFO
60. REMOVE LOWER CENTER PILLAR GARNISH RH INFO
61. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY RH INFO
62. REMOVE UPPER CENTER PILLAR GARNISH RH INFO
63. REMOVE SPARE WHEEL COVER INFO
64. REMOVE REAR SEAT HEADREST ASSEMBLY LH
65. REMOVE REAR SEAT HEADREST ASSEMBLY RH
66. REMOVE REAR SEAT CENTER HEADREST ASSEMBLY
67. REMOVE REAR SEAT CUSHION ASSEMBLY INFO
68. REMOVE REAR SEATBACK ASSEMBLY LH INFO
69. REMOVE REAR SEATBACK ASSEMBLY RH INFO
70. REMOVE REAR SEAT SIDE GARNISH LH INFO

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71. REMOVE ROOF SIDE INNER GARNISH BOARD LH INFO

72. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY LH INFO

73. REMOVE REAR SEAT SIDE GARNISH RH INFO

74. REMOVE ROOF SIDE INNER GARNISH BOARD RH INFO

75. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY RH INFO

76. REMOVE MAP LIGHT ASSEMBLY (w/o Sliding Roof) INFO

77. REMOVE MAP LIGHT ASSEMBLY (w/ Sliding Roof) INFO

78. REMOVE VISOR ASSEMBLY LH INFO

79. REMOVE VISOR ASSEMBLY RH INFO

80. REMOVE FRONT ASSIST GRIP SUB-ASSEMBLY INFO

81. REMOVE REAR ASSIST GRIP SUB-ASSEMBLY INFO

82. REMOVE NO. 1 ROOM LIGHT ASSEMBLY INFO

83. REMOVE INNER REAR VIEW MIRROR COVER (w/ EC Mirror) INFO

84. REMOVE VISOR HOLDER INFO

85. REMOVE SUN ROOF OPENING TRIM MOULDING (w/ Sliding Roof) INFO

86. REMOVE ROOF HEADLINING ASSEMBLY (w/o Sliding Roof) INFO

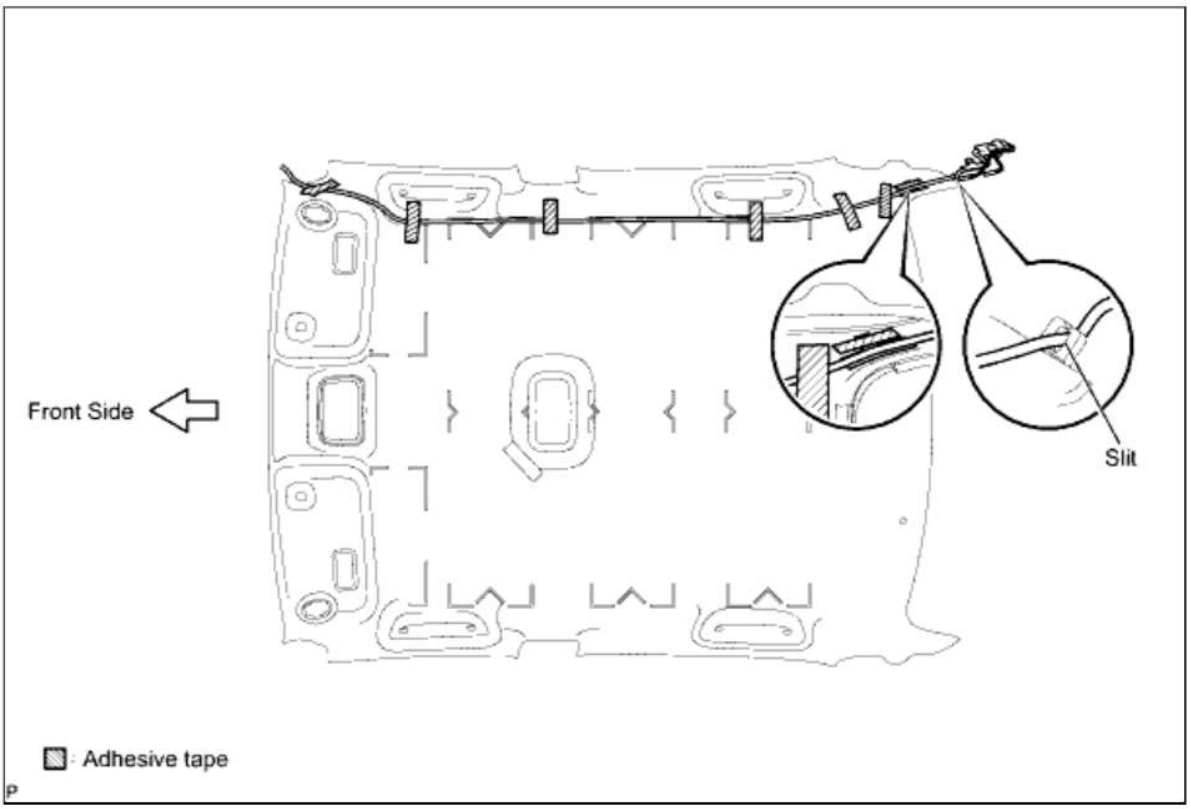
87. REMOVE ROOF HEADLINING ASSEMBLY (w/ Sliding Roof) INFO

88. REMOVE AMPLIFIER ANTENNA ASSEMBLY (w/o Sliding Roof)

(a) Remove the adhesive tape to the extent that the amplifier antenna assembly can be removed.

(b) Disconnect the amplifier antenna assembly from the slit on the roof headlining assembly and remove the amplifier antenna assembly from the roof headlining assembly.

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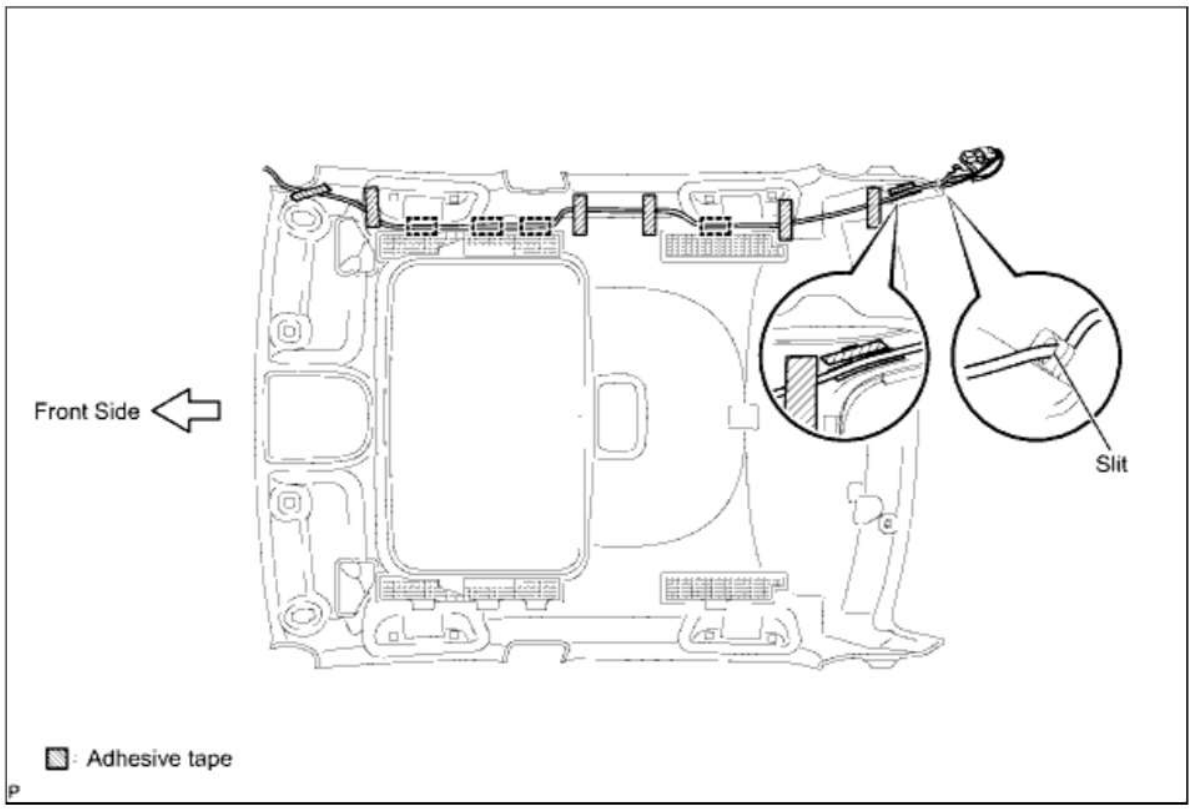
89. REMOVE AMPLIFIER ANTENNA ASSEMBLY (w/ Sliding Roof)

(a) Remove the adhesive tape to the extent that the amplifier antenna assembly can be removed.

(b) Disengage the 4 clamps.

(c) Disconnect the amplifier antenna assembly from the slit on the roof headlining assembly and remove the amplifier antenna assembly from the roof headlining assembly.

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Last Modified: 3-10-2010	6.4 A	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002XAZ00JX
Title: AUDIO / VIDEO: AMPLIFIER ANTENNA: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL AMPLIFIER ANTENNA ASSEMBLY (w/o Sliding Roof)

(a) Temporarily install the amplifier antenna assembly, aligning it with the marking on the roof headlining assembly.

(b) Attach pieces of adhesive tape in the sequence shown in the illustration, aligning them with the markings on the roof headlining assembly.

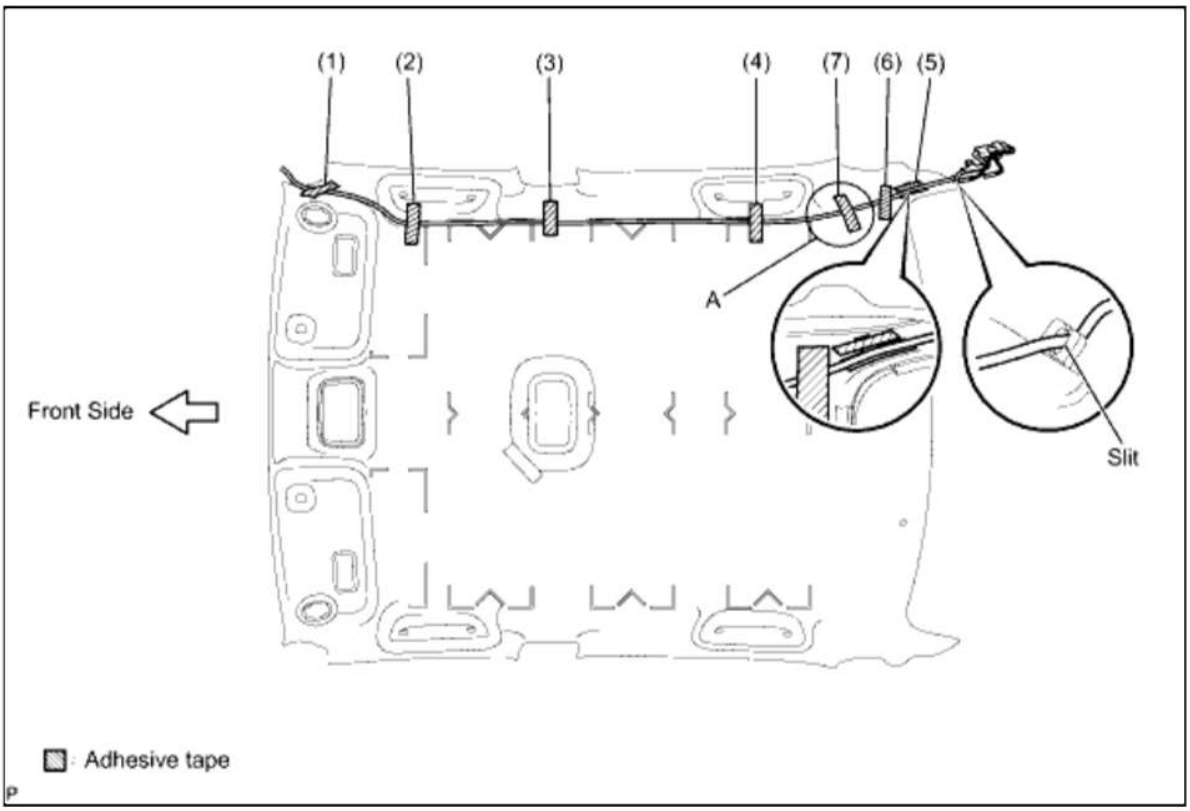
NOTICE:

To prevent noise, be sure to attach adhesive tape securely.

HINT:

Adjust the length of the amplifier antenna assembly at point A shown in the illustration.

(c) Insert the amplifier antenna assembly into the slit on the roof headlining assembly to install the amplifier antenna assembly to the roof headlining assembly.



2. INSTALL AMPLIFIER ANTENNA ASSEMBLY (w/ Sliding Roof)

(a) Temporarily install the amplifier antenna assembly, aligning it with the marking on the roof headlining assembly.

(b) Attach pieces of adhesive tape and clamp in the sequence shown in the illustration, aligning them with the markings on the roof headlining assembly.

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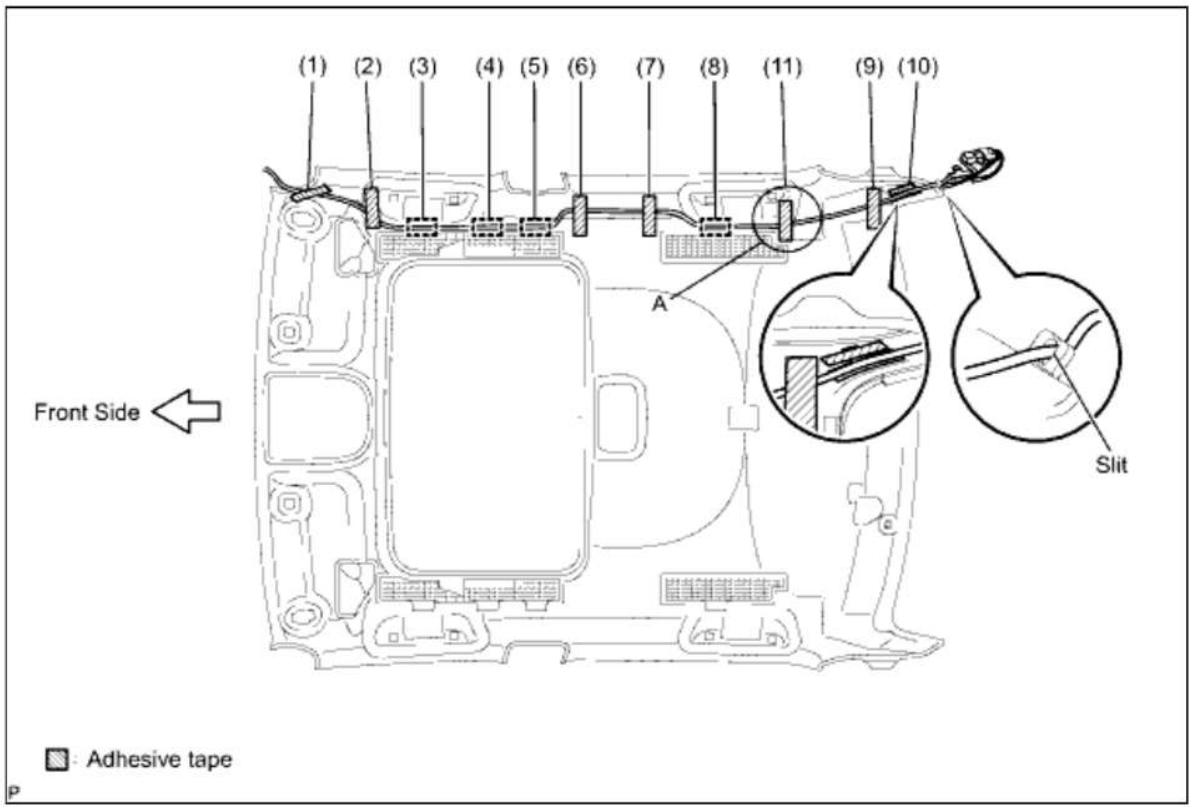
NOTICE:

To prevent noise, be sure to attach adhesive tape securely.

HINT:

Adjust the length of the amplifier antenna assembly at point A shown in the illustration.

(c) Insert the amplifier antenna assembly into the slit on the roof headlining assembly to install the amplifier antenna assembly to the roof headlining assembly.



3. INSTALL ROOF HEADLINING ASSEMBLY (w/ Sliding Roof) INFO

4. INSTALL ROOF HEADLINING ASSEMBLY (w/o Sliding Roof) INFO

5. INSTALL SUN ROOF OPENING TRIM MOULDING (w/ Sliding Roof) INFO

6. INSTALL VISOR HOLDER INFO

7. INSTALL INNER REAR VIEW MIRROR COVER (w/ EC Mirror) INFO

8. INSTALL NO. 1 ROOM LIGHT ASSEMBLY INFO

9. INSTALL REAR ASSIST GRIP SUB-ASSEMBLY INFO

10. INSTALL FRONT ASSIST GRIP SUB-ASSEMBLY INFO

11. INSTALL VISOR ASSEMBLY LH INFO

12. INSTALL VISOR ASSEMBLY RH INFO

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13. INSTALL MAP LIGHT ASSEMBLY (w/ Sliding Roof) INFO
14. INSTALL MAP LIGHT ASSEMBLY (w/o Sliding Roof) INFO
15. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY LH INFO
16. INSTALL ROOF SIDE INNER GARNISH BOARD LH INFO
17. INSTALL REAR SEAT SIDE GARNISH LH INFO
18. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY RH INFO
19. INSTALL ROOF SIDE INNER GARNISH BOARD RH INFO
20. INSTALL REAR SEAT SIDE GARNISH RH INFO
21. INSTALL REAR SEATBACK ASSEMBLY LH INFO
22. INSTALL REAR SEATBACK ASSEMBLY RH INFO
23. INSTALL REAR SEAT CUSHION ASSEMBLY INFO
24. INSTALL REAR SEAT CENTER HEADREST ASSEMBLY
25. INSTALL REAR SEAT HEADREST ASSEMBLY LH
26. INSTALL REAR SEAT HEADREST ASSEMBLY RH
27. INSTALL SPARE WHEEL COVER INFO
28. INSTALL UPPER CENTER PILLAR GARNISH LH INFO
29. INSTALL LOWER CENTER PILLAR GARNISH LH INFO
30. CONNECT FRONT SEAT OUTER BELT ASSEMBLY LH INFO
31. INSTALL LAP BELT OUTER ANCHOR COVER (for LH Side) INFO
32. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH INFO
33. INSTALL REAR DOOR SCUFF PLATE LH INFO
34. INSTALL UPPER CENTER PILLAR GARNISH RH INFO
35. CONNECT FRONT SEAT OUTER BELT ASSEMBLY RH INFO
36. INSTALL LOWER CENTER PILLAR GARNISH RH INFO
37. INSTALL LAP BELT OUTER ANCHOR COVER (for RH Side) INFO
38. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP RH INFO
39. INSTALL REAR DOOR SCUFF PLATE RH INFO
40. INSTALL UPPER INSTRUMENT PANEL SUB-ASSEMBLY INFO

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41. CONNECT INSTRUMENT PANEL WIRE ASSEMBLY INFO

42. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH INFO

43. INSTALL COWL SIDE TRIM BOARD LH INFO

44. INSTALL FRONT DOOR SCUFF PLATE LH INFO

45. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

46. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH INFO

47. INSTALL COWL SIDE TRIM BOARD RH INFO

48. INSTALL FRONT DOOR SCUFF PLATE RH INFO

49. INSTALL NO. 1 INSTRUMENT PANEL BOX DOOR SUB-ASSEMBLY INFO

50. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY INFO

51. INSTALL FRONT PILLAR GARNISH LH (w/ Curtain Shield Airbag) INFO

52. INSTALL FRONT PILLAR GARNISH LH (w/o Curtain Shield Airbag) INFO

53. INSTALL FRONT PILLAR GARNISH RH (w/ Curtain Shield Airbag) INFO

54. INSTALL FRONT PILLAR GARNISH RH (w/o Curtain Shield Airbag) INFO

55. INSTALL COMBINATION METER ASSEMBLY INFO

56. INSTALL INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY INFO

57. INSTALL CENTER INSTRUMENT PANEL REGISTER ASSEMBLY INFO

58. INSTALL INSTRUMENT PANEL FINISH PANEL END LH INFO

59. INSTALL INSTRUMENT PANEL FINISH PANEL END RH INFO

60. INSTALL SHIFT LOCK CONTROL UNIT ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

61. INSTALL SHIFT LEVER ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

62. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

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63. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (for Manual Transaxle)

for C59: INFO

for E351: INFO

64. ADJUST TRANSMISSION CONTROL SELECT CABLE (for Manual Transaxle)

for C59: INFO

for E351: INFO

65. INSTALL CONSOLE BOX ASSEMBLY (for Automatic Transaxle) INFO

66. INSTALL CONSOLE BOX ASSEMBLY (for Manual Transaxle) INFO

67. INSTALL CONSOLE BOX CARPET INFO

68. INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY INFO

69. INSTALL FRONT NO. 1 CONSOLE BOX INSERT INFO

70. INSTALL FRONT NO. 2 CONSOLE BOX INSERT INFO

71. INSTALL INSTRUMENT PANEL BOX ASSEMBLY INFO

72. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle) INFO

73. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle) INFO

74. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle) INFO

75. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle) INFO

76. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH INFO

77. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH INFO

78. INSTALL FRONT SEAT ASSEMBLY LH (for Manual Seat) INFO

79. INSPECT FRONT SEAT SLIDE ADJUSTER LOCK (for Manual Seat) INFO

80. INSTALL INNER SEAT TRACK COVER LH (for Manual Seat) INFO

81. INSTALL OUTER SEAT TRACK COVER LH (for Manual Seat) INFO

82. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

83. INSTALL FRONT SEAT ASSEMBLY LH (for Power Seat) INFO

84. INSTALL INNER SEAT TRACK COVER LH (for Power Seat) INFO

85. INSTALL OUTER SEAT TRACK COVER LH (for Power Seat) INFO

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86. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Power Seat)

87. INSTALL FRONT SEAT ASSEMBLY RH (for Manual Seat) INFO

88. INSPECT FRONT SEAT SLIDE ADJUSTER LOCK (for Manual Seat) INFO

89. INSTALL INNER SEAT TRACK COVER RH (for Power Seat) INFO

90. INSTALL OUTER SEAT TRACK COVER RH (for Manual Seat) INFO

91. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)

92. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL (for Manual Seat)

93. INSPECT SHIFT LEVER POSITION (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

94. ADJUST SHIFT LEVER POSITION (for Automatic Transaxle)

for U250E: INFO

for U341E: INFO

95. INSPECT SRS WARNING LIGHT

INFO

96. INSPECT FRONT SEAT ASSEMBLY (for Power Seat) INFO

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Last Modified: 3-10-2010	6.4 L	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002YLQ00RX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: PRECAUTION (2010 Corolla)		

PRECAUTION

1. EXPRESSIONS OF IGNITION SWITCH

(a) The type of ignition switch used on this model differs according to the specifications of the vehicle. The expressions listed in the table below are used in this section.

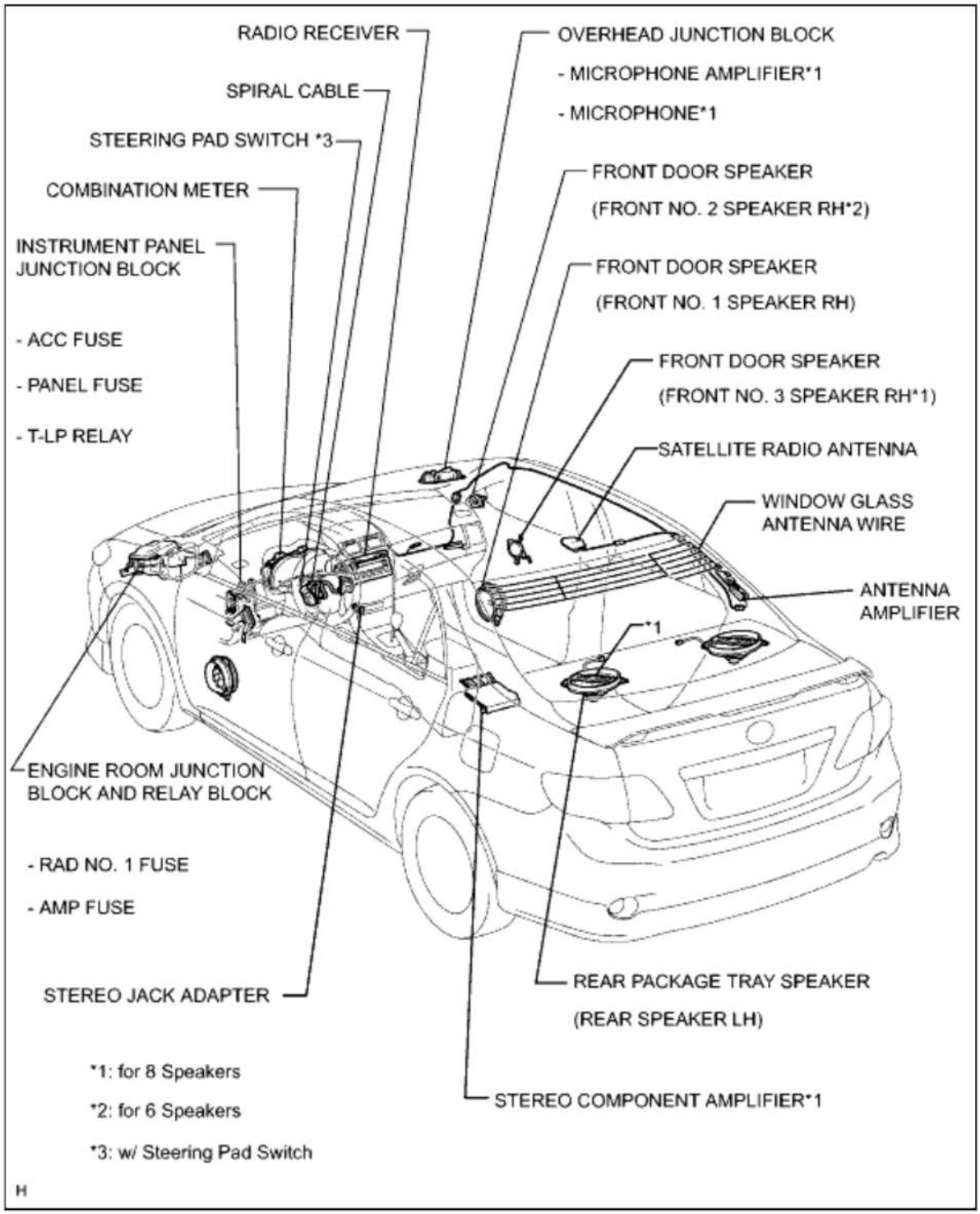
SWITCH TYPE		IGNITION SWITCH (POSITION)	ENGINE SWITCH (CONDITION)
Expression	Ignition switch off	LOCK	Off
	Ignition switch ON	ON	On (IG)
	Ignition switch ACC	ACC	On (ACC)
	Engine start	START	Start

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Last Modified: 3-10-2010	6.4 R	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012A6026X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: PARTS LOCATION (2010 Corolla)		

PARTS LOCATION

ILLUSTRATION



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Last Modified: 3-10-2010	6.4 D	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NKZ04QX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: SYSTEM DESCRIPTION (2010 Corolla)		

SYSTEM DESCRIPTION

1. DISC PLAYER OUTLINE

(a) A CD player uses a laser pickup to read digital signals recorded on CDs. By converting the digital signals to analog, music and other content can be played.

CAUTION:

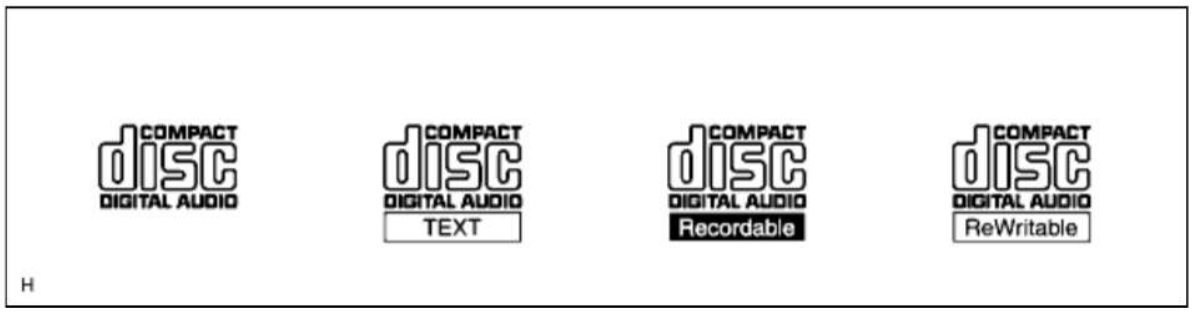
Do not look directly at the laser pickup because the CD player uses an invisible laser beam. Be sure to operate the player only as instructed.

NOTICE:

- Do not disassemble any part of the CD player.
- Do not apply oil to the CD player.
- Do not insert anything but a CD into the CD player.

(b) Usable discs

(1) The CD player can only play audio CDs, CD-Rs (CD-Recordable), and CD-RWs (CD-ReWritable) that have any of the following marks:



(c) Precautions for use of discs

NOTICE:

- Copy-protected CDs cannot be played.
- CD-Rs and CD-RWs may not be played depending on the recording conditions or characteristics of the discs, or due to damage, dirt, or deterioration caused by leaving the discs in the cabin for a long time.
- Unfinalized CD-Rs and CD-RWs cannot be played.
- Keep the discs away from dirt. Be careful not to damage the discs or leave your fingerprints on them.
- Hold discs by the outer edge and center hole with the label side up.
- Leaving the disc exposed halfway out of the slot for a long time after pressing the disc eject button may cause deformation of the disc, making the disc unusable.
- If discs have adhesive tape, stickers, CD-R labels, or any traces of such labels attached, the discs may not be ejected or player malfunctions may result.
- Keep the discs away from direct sunlight. (Exposure to direct sunlight may cause deformation of the disc, making the disc unusable.)
- Do not use odd-shaped CDs because these may cause player malfunctions.
- Do not use discs whose recording portion is transparent or translucent because they may not be

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inserted, ejected, or played normally.

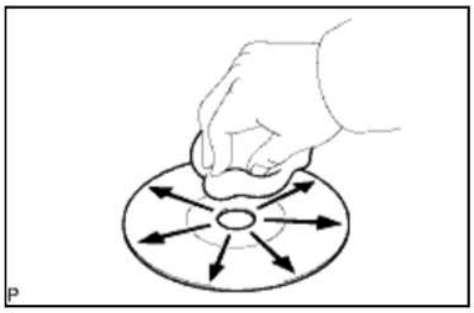
HINT:

- When it is cold or it is raining, if the windows mist up, mist and condensation may form in the player. In such cases, the CD may skip or stop in the middle of play. Ventilate or dehumidify the cabin for a while before using the player.
- The CD may skip if the player experiences strong vibrations when the vehicle is driven on rough road or similar uneven surface(s).

(d) Cleaning

NOTICE:

Do not use a lens cleaner because it may cause a malfunction in the pickup portion of the player.



(1) If dirt is on the disc surface, wipe it clean with a soft dry cloth such as an eyeglass cleaner for plastic lenses from the inside to the outside in a radial direction.

NOTICE:

- Pressing on the disc by hand or rubbing the disc with a hard cloth may scratch the disc surface.
- Use of solvent such as a record spray, antistatic agent, alcohol, benzine, and thinner, or a chemical cloth may cause damage to the disc, making the disc unusable.

2. MP3/WMA OUTLINE

(a) Playable MP3 file standards

Compatible standard	MP3 (MPEG1 LAYER3, MPEG2 LSF LAYER3)
Compatible sampling frequency	• MPEG1 LAYER3: 32, 44.1, 48 (kHz) • MPEG2 LSF LAYER3: 16, 22.05, 24 (kHz)
Compatible bit rate	• MPEG1 LAYER3: 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (kbps) • MPEG2 LSF LAYER3: 64, 80, 96, 112, 128, 144, 160 (kbps) • Compatible with VBR
Compatible channel mode	Stereo, joint stereo, dual channel, monaural

(b) Playable WMA file standards

Compatible standard	WMA Ver. 7, 8 and 9
Compatible sampling frequency	32, 44.1, 48 (kHz)
Compatible bit rate	• Ver. 7, 8: CBR48, 64, 80, 96, 128, 160, 192 (kbps) • Ver. 9: CBR48, 64, 80, 96, 128, 160, 192, 256, 320 (kbps)

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	• Compatible with 2 channel playback only

(c) ID3 tag and WMA tag

(1) Additional textual information called ID3 tag can be input to MP3 files. Information such as song titles and artist names can be stored.

HINT:

This player is compatible with the ID3 tags of ID3 Ver. 1.0 and 1.1, and ID3 Ver. 2.2 and 2.3. (Number of characters complies with ID3 Ver. 1.0 and 1.1.)

(2) Additional textual information called WMA tag can be input to WMA files. Information such as song titles and artist names can be stored.

(d) Usable media

(1) Only CD-ROMs, CD-Rs (CD-Recordable), and CD-RWs (CD-ReWritable) can be used to play MP3/WMA files.

NOTICE:

- CD-Rs and CD-RWs are more easily affected by a hot and humid environment than discs used for normal audio CDs. For this reason, some CD-Rs and CD-RWs do not play.
- If there are fingerprints or scratches on the disc, the disc may not play or the CD may skip.
- Some CD-Rs and CD-RWs may deteriorate if they are left in the cabin for a long time.
- Keep CD-Rs and CD-RWs in an opaque case.

(e) Usable media format

(1) Usable media format

Disc format	CD-ROM Mode 1, CD-ROM XA Mode 2 Form1
File format	ISO9660 Level 1 and Level 2 (Joliet, Romeo)

HINT:

- As for MP3/WMA files written in any unlisted format, the contents of the files may not play normally or the file names or folder names may not display correctly.
- This player is compatible with multi-session discs and can play CD-Rs and CD-RWs on which MP3/WMA files are added. However, only the first session can be played.
- Discs whose first session includes both music data and MP3 or WMA format data cannot be played.

(2) Standard and restrictions

Maximum directory levels	8 levels
Maximum number of characters for a folder name/file name	32 characters
Maximum number of folders	192 (Including empty folders, route folders, and folders that do not contain MP3/WMA files)

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Maximum number of files in a disc	255 (Including non-MP3/WMA files)

(f) File names

(1) Only files with an extension of ".mp3" or ".wma" can be recognized and played as MP3 or WMA files.

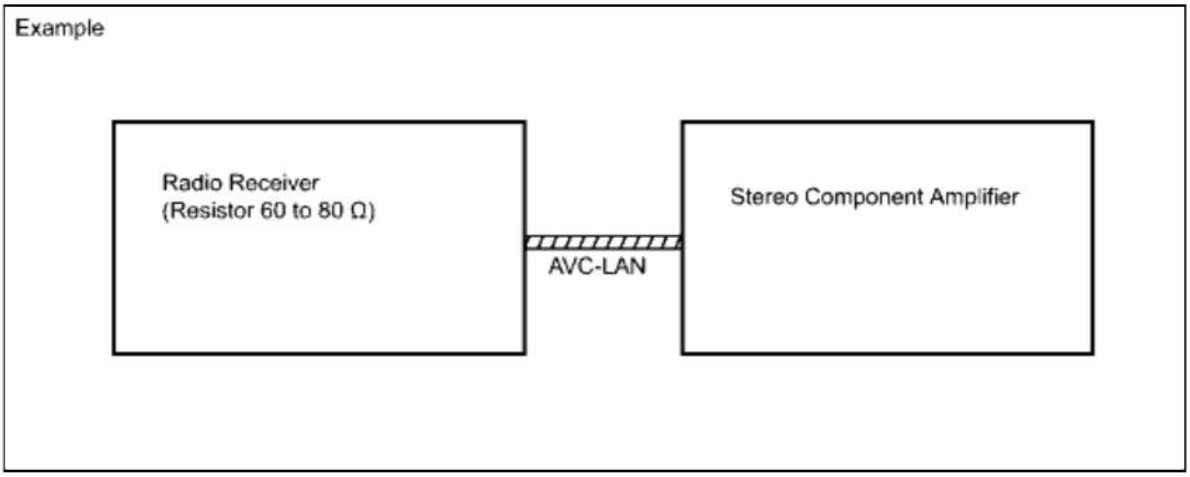
(2) Save MP3 or WMA files with an extension of ".mp3" or ".wma".

NOTICE:

If saving non-MP3 or non-WMA files with an extension of ".mp3" or ".wma", those files are wrongly recognized as MP3 or WMA files and played. A loud noise may occur and damage to the speaker may result.

3. AVC-LAN DESCRIPTION

(a) What is AVC-LAN?



AVC-LAN, an abbreviation for "Audio Visual Communication Local Area Network", is a united standard developed by the manufacturers in affiliation with Toyota Motor Corporation. This standard pertains to audio and visual signals as well as switch and communication signals.

(b) Purpose:

Recently, car audio systems have rapidly developed and the functions have vastly changed. The conventional car audio system is being integrated with multi-media interfaces similar to those in navigation systems. At the same time, customers are demanding higher quality from their audio systems. This is merely an overview of the standardization background. The specific purposes are as follows:

(1) To solve sound problems, etc. caused by using components of different manufacturers through signal standardization.

(2) To allow each manufacturer to concentrate on developing products they do best. From this, reasonably priced products can be produced.

HINT:

- If a short to +B or short to ground is detected in the AVC-LAN circuit, communication is interrupted and the audio system will stop functioning.
- The radio receiver contains a resistor that is necessary to enable communication on the different AVC-LAN circuits.
- The car audio system with an AVC-LAN circuit has a diagnostic function.

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- Each component has a specified number (3-digit) called a physical address. Each function has a number (2-digit) called a logical address.

4. COMMUNICATION SYSTEM OUTLINE

(a) Components of the audio system communicate with each other via the AVC-LAN.

(b) The master component of the AVC-LAN is a radio receiver with a 60 to 80 Ω resistor. This is essential for communication.

(c) If a short circuit or open circuit occurs in the AVC-LAN circuit, communication is interrupted and the audio system will stop functioning.

5. DIAGNOSTIC FUNCTION OUTLINE

(a) The audio system has a diagnostic function (the result is indicated on the master unit).

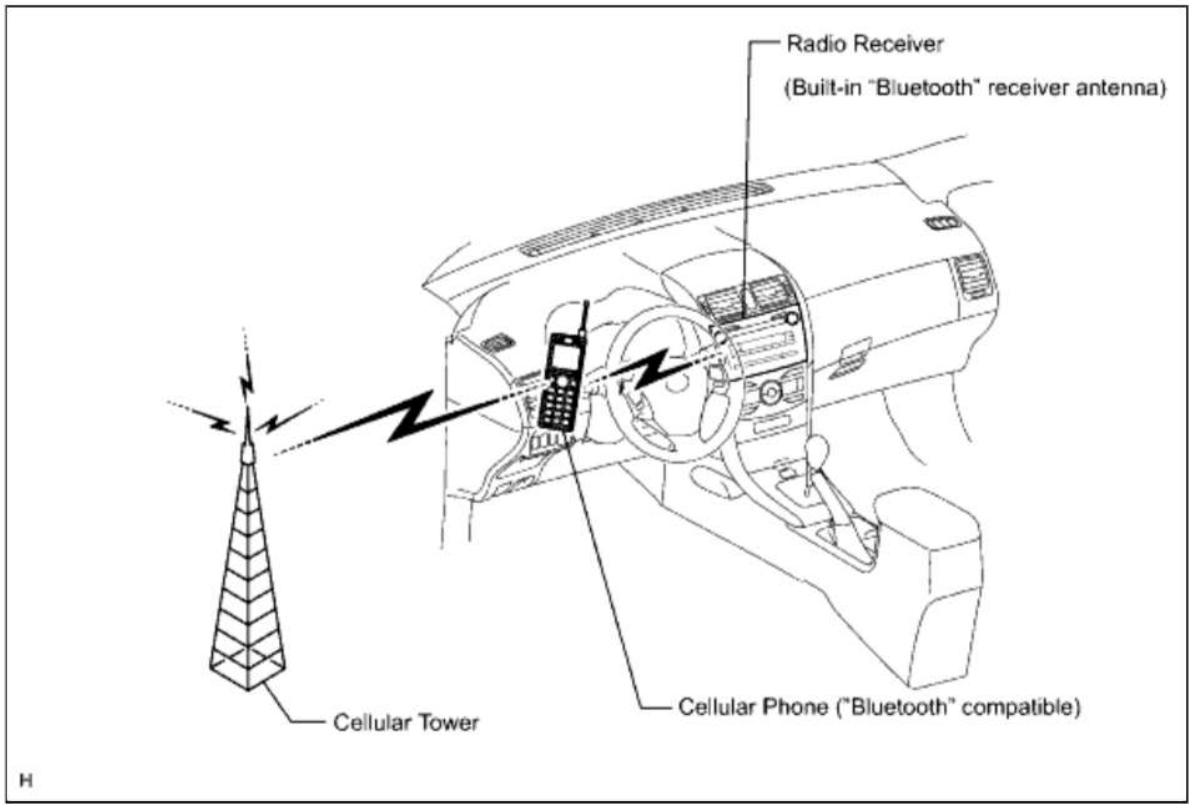
(b) A 3-digit hexadecimal component code (physical address) is allocated to each component on the AVC-LAN. Using this code, the component in the diagnostic function can be displayed.

6. "BLUETOOTH" OUTLINE

(a) "Bluetooth" is a trademark owned by Bluetooth SIG. Inc.

(b) "Bluetooth" is a new wireless connection technology that uses the 2.4 GHz frequency band. This makes it possible to connect a cellular phone ("Bluetooth" compatible phone[*1]) to the radio receiver (the "Bluetooth" system is built in), and use the handsfree function of the cellular phone, even if it is in a pocket or bag. As a result, it is not necessary to use a connector attached directly to the cellular phone.

[*1]: Some versions of "Bluetooth" compatible cellular phones may not function.



HINT:

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The communication performance of "Bluetooth" may vary depending on obstructions or radio wave conditions between communication devices, electromagnetic radiation, communication device sensitivity, or antenna capacity.

7. ASL (Automatic Sound Levelizer) FUNCTION OUTLINE

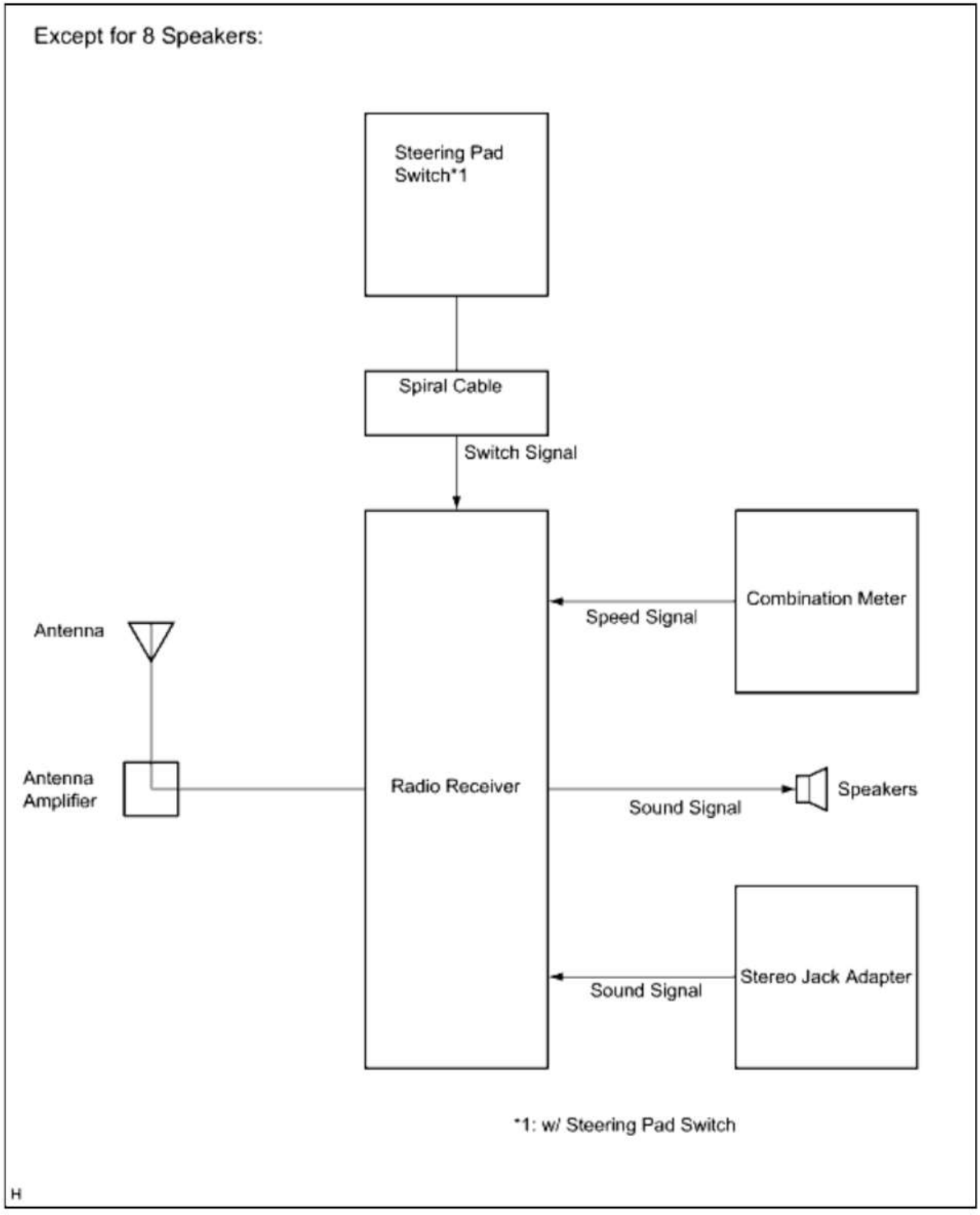
(a) The ASL (Automatic Sound Levelizer) function automatically adjusts the sound data in order to enable to hear the clear audio sound even when vehicle noise increases (as vehicle noise increases, the volume is turned up etc.). Vehicle speed signals are received from the combination meter and used for the ASL (Automatic Sound Levelizer).



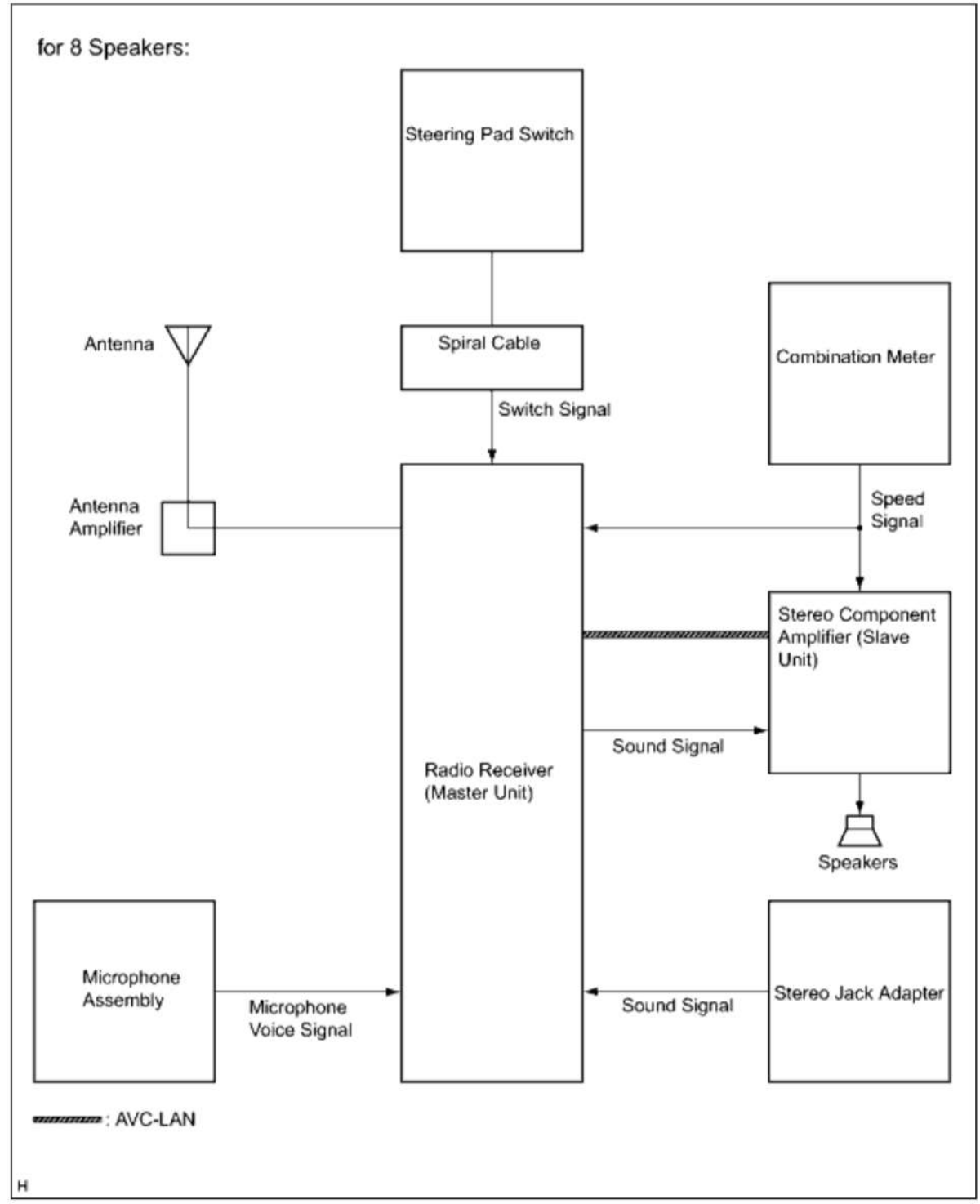
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Last Modified: 3-10-2010	6.4 U	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012AB02XX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: SYSTEM DIAGRAM (2010 Corolla)		

SYSTEM DIAGRAM



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Last Modified: 3-10-2010	6.4 D	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000PMP044X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING (2010 Corolla)		

HOW TO PROCEED WITH TROUBLESHOOTING

1.	**VEHICLE BROUGHT TO WORKSHOP**

NEXT

2.	**INSPECT BATTERY VOLTAGE**

Standard voltage:
11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.

NEXT

3.	**BASIC INSPECTION**

(a) Turn the ignition switch to ON.

(b) Check whether or not the radio receiver turns on.

Result:

RESULT	PROCEED TO
Radio receiver turns on	A
Radio receiver does not turn on	B

B **Go to step 7**

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A

4.	CONFIRM MODEL

Result:

RESULT	PROCEED TO
for 8 Speakers	A
Except for 8 Speakers	B

B ▶ Go to step 7

A

5.	CHECK FOR DTC

(a) Check for DTCs and note any codes that are output.

(b) Clear the DTCs.

(c) Recheck for DTCs by simulating the operation indicated by the DTCs.

HINT:

- If the system cannot enter diagnostic mode, inspect the AVC-LAN and all the components that connect to the AVC-LAN for short circuits and repair or replace the malfunctioning part.
- Even if the symptom malfunction is not confirmed, check the DTCs. This is because the system stores past DTCs.
- Check and clear past DTCs. Then recheck for DTCs.

Result:

RESULT	PROCEED TO
DTC is output again	A
DTC is not output	B

B ▶ Go to step 7

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A

6.	DIAGNOSTIC TROUBLE CODE CHART

Find the output code in the Diagnostic Trouble Code Chart INFO .

NEXT **Go to step 9**

7.	PROBLEM SYMPTOMS TABLE

Refer to the Problem Symptoms Table INFO .

Result:

RESULT	PROCEED TO
Fault is not listed in problem symptoms table	A
Fault is listed in problem symptoms table	B

B **Go to step 9**

A

8.	OVERALL ANALYSIS AND TROUBLESHOOTING

(a) Terminals of ECU INFO .

NEXT

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9.	ADJUST, REPAIR OR REPLACE

NEXT

10.	CONFIRMATION TEST

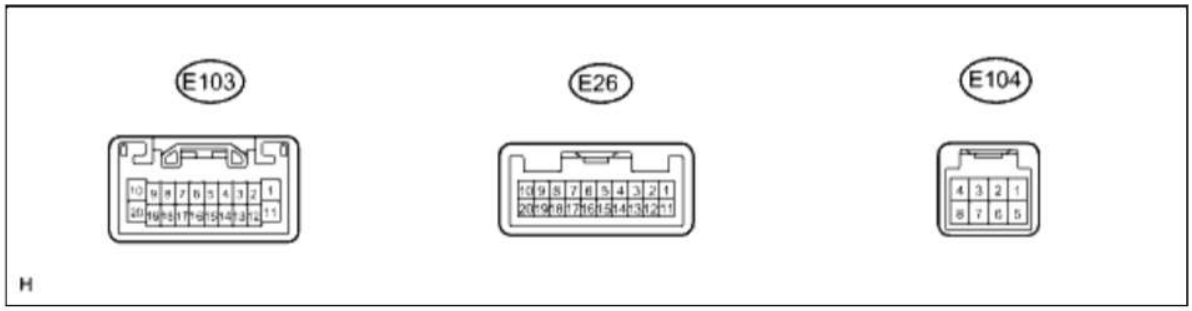
NEXT END

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Last Modified: 3-10-2010	6.4 U	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012A703FX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: TERMINALS OF ECU (2010 Corolla)		

TERMINALS OF ECU

1. RADIO RECEIVER (for 8 Speakers)



TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E103-1 (B) - E103-20 (E)	SB - BR	Battery	Always	11 to 14 V
E103-2 (ILL+) - E103-20 (E)	G - BR	Illumination signal	Light control switch OFF	Below 1 V
E103-2 (ILL+) - E103-20 (E)	G - BR	Illumination signal	Light control switch TAIL	11 to 14 V
E103-5 (ATX+) - E103-15 (ATX-)	P - B	AVC-LAN communication signal	Ignition switch ACC	2 to 3 V
E103-7 (MUTE) - E103-20 (E)	LG - BR	MUTE signal	Audio system is playing	Above 3.5 V
E103-7 (MUTE) - E103-20 (E)	LG - BR	MUTE signal	Audio system is changing	Below 1 V
E103-8 (R+) - E103-20 (E)	R - BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
E103-9 (L+) - E103-20 (E)	B - BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
E103-10 (SLD) - Body ground	Shielded - Body ground	Shield ground	Always	Below 1 V
E103-11 (ACC) - E103-20 (E)	GR - BR	Accessory (ON)	Ignition switch ACC	11 to14 V

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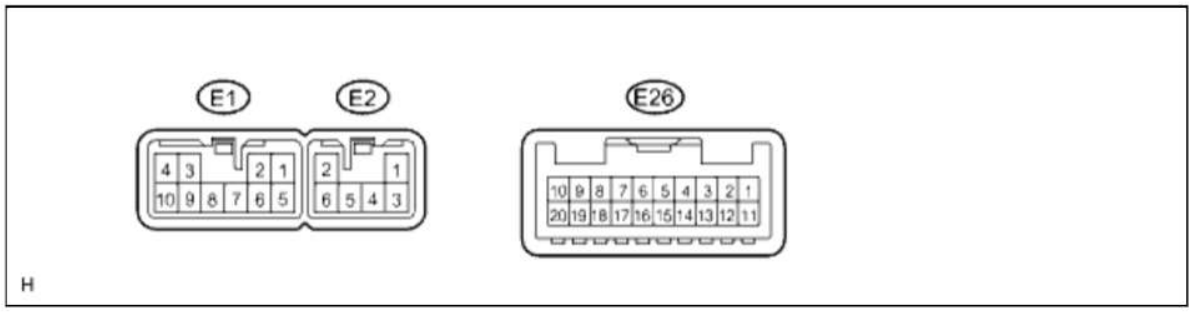
TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E103-12 (ILL-) - E103-20 (E)	W - BR	Illumination (rheostat) signal	Light control switch OFF	Below 1 V
E103-12 (ILL-) - E103-20 (E)	W - BR	Illumination (rheostat) signal	Light control switch TAIL	Pulse generation
E103-13 (ANT) - E103-20 (E)	BE - BR	Power source of antenna	Radio switch ON and AM or FM	11 to 14 V
E103-18 (R-) - E103-20 (E)	W - BR	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
E103-19 (L-) - E103-20 (E)	G - BR	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
E103-20 (E) - Body ground	BR - Body ground	Ground	Always	Below 1 V
E26-3 (SPD) - E103-20 (E)	V - BR	Speed signal from combination meter	Ignition switch ON Turn drive wheels slowly	Pulse generation
E26-6 (SWG) - E103-20 (E)	SB - BR	Steering pad switch ground	Always	Below 1 V
E26-7 (SW1) - E103-20 (E)	BE - BR	Steering pad switch signal	Steering pad switch not operated	4.5 to 5.5 V
E26-7 (SW1) - E103-20 (E)	BE - BR	Steering pad switch signal	SEEK+ switch pushed	Below 0.5 V
E26-7 (SW1) - E103-20 (E)	BE - BR	Steering pad switch signal	SEEK- switch pushed	0.86 to 0.95 V
E26-7 (SW1) - E103-20 (E)	BE - BR	Steering pad switch signal	VOL+ switch pushed	1.91 to 2.01 V
E26-7 (SW1) - E103-20 (E)	BE - BR	Steering pad switch signal	VOL- switch pushed	3.23 to 3.57 V
E26-8 (SW2) - E103-20 (E)	P - BR	Steering pad switch signal	Steering pad switch not operated	4.5 to 5.5 V
E26-8 (SW2) - E103-20 (E)	P - BR	Steering pad switch signal	MODE switch pushed	Below 0.5 V
E26-8 (SW2) - E103-20 (E)	P - BR	Steering pad switch signal	ON HOOK switch pushed	0.86 to 0.95 V
E26-8 (SW2) - E103-20 (E)	P - BR	Steering pad switch signal	OFF HOOK switch pushed	1.91 to 2.01 V
E26-8 (SW2) - E103-20 (E)	P - BR	Steering pad switch signal	VOICE switch pushed	3.23 to 3.57 V

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TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E26-11 (IVO+) - E103-20 (E)	G - BR	Voice signal	"Bluetooth" handsfree voice signal is received	A waveform synchronized with sounds is output
E26-12 (IVO-) - E103-20 (E)	R - BR	Voice signal	"Bluetooth" handsfree voice signal is received	A waveform synchronized with sounds is output
E26-13 (SLD1) - Body ground	Shielded - Body ground	Shield ground	Always	Below 1 V
E26-15 (ARI) - E103-20 (E)	B - BR	Sound signal (Right)	External device is playing (When stereo jack is used)	A waveform synchronized with sounds is output
E26-16 (ASGN) - E103-20 (E)	R - BR	Shield ground	Always	Below 1 V
E26-17 (ALI) - E103-20 (E)	W - BR	Sound signal (Left)	External device is playing (When stereo jack is used)	A waveform synchronized with sounds is output
E26-18 (AGND) - Body ground	Shielded - Body ground	Shield ground	Always	Below 1 V
E26-19 (AUXI) - E103-20 (E)	L - BR	External device connection detection signal	External device is connected	Below 1 V
E104-1 (SNS2) - E103-20 (E)	Y - BR	Microphone connection detection signal	Always	Below 1 V
E104-2 (MIC+) - E103-20 (E)	B - BR	Microphone voice signal	"Bluetooth" handsfree function is ON	A waveform synchronized with sounds is output
E104-3 (MACC) - E103-20 (E)	R - BR	Microphone amplifier power supply	Ignition switch off	Below 1 V
E104-3 (MACC) - E103-20 (E)	R - BR	Microphone amplifier power supply	Ignition switch ON	4 to 6 V
E104-5 (MIC-) - E103-20 (E)	W - BR	Microphone voice signal	"Bluetooth" handsfree function is ON	A waveform synchronized with sounds is output
E104-6 (SGND) - E103-20 (E)	Shielded - BR	Shielded ground	Always	Below 1 V

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2. RADIO RECEIVER (Except for 8 Speakers)



TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E1-1 (FR+) - E1-7 (E)	LG - BR	Sound signal (Front Right)	Audio system is playing	A waveform synchronized with sounds is output
E1-2 (FL+) - E1-7 (E)	P - BR	Sound signal (Front Left)	Audio system is playing	A waveform synchronized with sounds is output
E1-3 (ACC) - E1-7 (E)	GR - BR	Accessory (ON)	Ignition switch off	Below 1 V
E1-3 (ACC) - E1-7 (E)	GR - BR	Accessory (ON)	Ignition switch ACC	11 to 14 V
E1-4 (B) - E1-7 (E)	SB - BR	Battery	Always	11 to 14 V
E1-5 (FR-) - E1-7 (E)	L - BR	Sound signal (Front Right)	Audio system is playing	A waveform synchronized with sounds is output
E1-6 (FL-) - E1-7 (E)	V - BR	Sound signal (Front Left)	Audio system is playing	A waveform synchronized with sounds is output
E1-7 (E) - Body ground	BR - Body ground	Ground	Always	Below 1 V
E1-8 (ANT) - E1-7 (E)	O*2, BE*3 - BR	Power source of antenna	Radio switch ON and AM or FM	11 to 14 V
E1-10 (ILL+) - E1-7 (E)	G - BR	Illumination signal	Light control switch OFF	Below 1 V
E1-10 (ILL+) - E1-7 (E)	G - BR	Illumination signal	Light control switch TAIL or HEAD	11 to 14 V
E2-1 (RR+) - E1-7 (E)	R - BR	Sound signal (Rear Right)	Audio system is playing	A waveform synchronized with sounds is output

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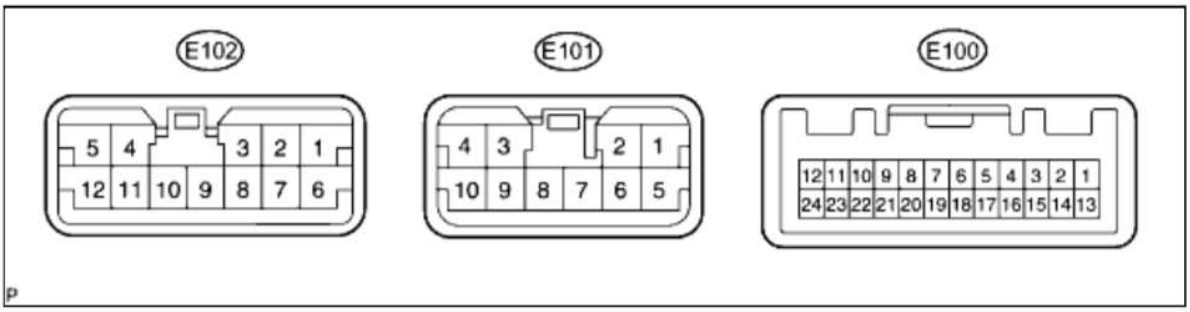
TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E2-2 (RL+) - E1-7 (E)	B - BR	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E2-3 (RR-) - E1-7 (E)	W - BR	Sound signal (Rear Right)	Audio system is playing	A waveform synchronized with sounds is output
E2-5 (ILL-) - E1-7 (E)	W - BR	Illumination (rheostat) signal	Light control switch OFF	Below 1 V
E2-5 (ILL-) - E1-7 (E)	W - BR	Illumination (rheostat) signal	Light control switch TAIL or HEAD	Pulse generation
E2-6 (RL-) - E1-7 (E)	Y - BR	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E26-3 (SPD) - E1-7 (E)	V - BR	Speed signal from combination meter	Ignition switch ON Turn drive wheels slowly	Pulse generation
E26-6 (SWG) - E1-7 (E)*1	SB - BR	Steering pad switch ground	Always	Below 1 V
E26-7 (SW1) - E1-7 (E)*1	BE - BR	Steering pad switch signal	Steering pad switch not operated	4.5 to 5.5 V
E26-7 (SW1) - E1-7 (E)*1	BE - BR	Steering pad switch signal	SEEK+ switch pushed	Below 0.5 V
E26-7 (SW1) - E1-7 (E)*1	BE - BR	Steering pad switch signal	SEEK- switch pushed	0.86 to 0.95 V
E26-7 (SW1) - E1-7 (E)*1	BE - BR	Steering pad switch signal	VOL+ switch pused	1.91 to 2.01 V
E26-7 (SW1) - E1-7 (E)*1	BE - BR	Steering pad switch signal	VOL- switch pushed	3.23 to 3.57 V
E26-8 (SW2) - E1-7 (E)*1	P - BR	Steering pad switch signal	Steering pad switch not operated	4.5 to 5.5 V
E26-8 (SW2) - E1-7 (E)*1	P - BR	Steering pad switch signal	MODE switch pushed	Below 0.5 V
E26-15 (ARI) - E1-7 (E)	B - BR	Sound signal (Right)	External device is playing (When stereo jack is used)	A waveform synchronized with sounds is output
E26-16 (ASGN) - E1-7 (E)	R - BR	Shield ground	Always	Below 1 V

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TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E26-17 (ALI) - E1-7 (E)	W - BR	Sound signal (Left)	External device is playing (When stereo jack is used)	A waveform synchronized with sounds is output
E26-18 (AGND) - Body ground	Shielded - Body ground	Shield ground	Always	Below 1 V
E26-19 (AUXI) - E1-7 (E)	L - BR	External device connection detection signal	External device is connected	Below 1 V

- *1: w/ Steering Pad Switch
- *2: TMC Made
- *3: Except TMC Made

3. STEREO COMPONENT AMPLIFIER (for 8 Speakers)



TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E100-1 (MUTE) - E102-6 (GND)	LG - W-B	Mute signal from radio receiver	Audio system is playing	Above 3.5 V
E100-1 (MUTE) - E102-6 (GND)	LG - W-B	Mute signal from radio receiver	Audio system is changing sources	Below 1 V
E100-2 (L-) - E102-6 (GND)	G - W-B	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
E100-3 (L+) - E102-6 (GND)	B - W-B	Sound signal (Left)	Audio system is playing	A waveform synchronized with sounds is output
E100-4 (R-) - E102-6 (GND)	W - W-B	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output

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TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
E100-5 (R+) - E102-6 (GND)	R - W-B	Sound signal (Right)	Audio system is playing	A waveform synchronized with sounds is output
E100-7 (TX-) - E100-8 (TX+)	B - P	AVC-LAN communication signal	Ignition switch ACC	2 to 3 V
E100-11 (SPD) - E102-6 (GND)	V - W-B	Speed signal from combination meter	Ignition switch ON Turn drive wheels slowly	Pulse generation
E100-12 (ACC) - E102-6 (GND)	GR - W-B	Accessory (ON)	Ignition switch off	Below 1 V
E100-12 (ACC) - E102-6 (GND)	GR - W-B	Accessory (ON)	Ignition switch ACC	11 to 14 V
E100-22 (INT-) - E102-6 (GND)	R - W-B	Voice signal	Navigation or "Bluetooth" handsfree voice signal is transmitted	A waveform synchronized with sounds is output
E100-23 (INT+) - E102-6 (GND)	G - W-B	Voice signal	Navigation or "Bluetooth" handsfree voice signal is transmitted	A waveform synchronized with sounds is output
E101-1 (+B) - E102-6 (GND)	R - W-B	Battery	Always	11 to 14 V
E101-2 (FR+) - E102-6 (GND)	BR - W-B	Sound signal (Front Right)	Audio system is playing	A waveform synchronized with sounds is output
E101-3 (RL+) - E102-6 (GND)	B - W-B	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E101-4 (RR-) - E102-6 (GND)	W - W-B	Sound signal (Rear Right)	Audio system is playing	A waveform synchronized with sounds is output
E101-5 (+B2) - E102-6 (GND)	R - W-B	Battery	Always	11 to 14 V
E101-6 (FR-) - E102-6 (GND)	P - W-B	Sound signal (Front Right)	Audio system is playing	A waveform synchronized with sounds is output
E101-7 (FL-) - E102-6 (GND)	R - W-B	Sound signal (Front Left)	Audio system is playing	A waveform synchronized with

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TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
				sounds is output
E101-8 (FL+) - E102-6 (GND)	W - W-B	Sound signal (Front Left)	Audio system is playing	A waveform synchronized with sounds is output
E101-9 (RL-) - E102-6 (GND)	Y - W-B	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E101-10 (RR+) - E102-6 (GND)	R - W-B	Sound signal (Rear Right)	Audio system is playing	A waveform synchronized with sounds is output
E102-1 (WFL-) - E102-6 (GND)	V - W-B	Sound signal (Front Left)	Audio system is playing	A waveform synchronized with sounds is output
E102-2 (WFL+) - E102-6 (GND)	P - W-B	Sound signal (Front Left)	Audio system is playing	A waveform synchronized with sounds is output
E102-3 (WFR-) - E102-6 (GND)	L - W-B	Sound signal (Front Right)	Audio system is playing	A waveform synchronized with sounds is output
E102-4 (SL+) - E102-6 (GND)	BR - W-B	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E102-5 (SR+) - E102-6 (GND)	P - W-B	Sound signal (Rear Right)	Audio system is playing	A waveform synchronized with sounds is output
E102-6 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
E102-7 (GND2) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
E102-9 (WFR+) - E102-6 (GND)	LG - W-B	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E102-10 (SL-) - E102-6 (GND)	LG - W-B	Sound signal (Rear Left)	Audio system is playing	A waveform synchronized with sounds is output
E102-12 (SR-) - E102-6 (GND)	SB - W-B	Sound signal (Rear Right)	Audio system is playing	A waveform synchronized with sounds is output

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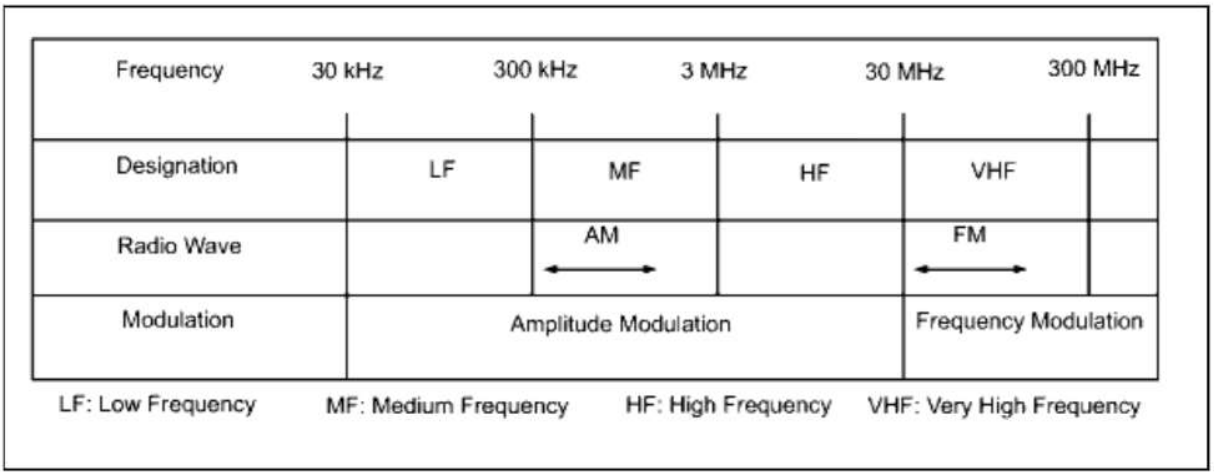
Last Modified: 3-10-2010	6.4 D	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NL0065X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: IDENTIFICATION OF NOISE SOURCE (2010 Corolla)		

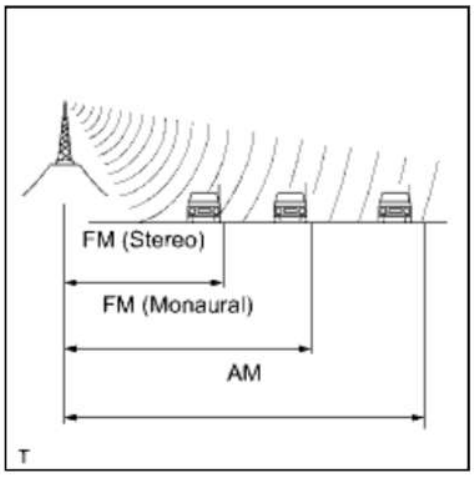
IDENTIFICATION OF NOISE SOURCE

1. Radio Description

(a) Radio frequency band

(1) Radio broadcasts use the radio frequency bands shown in the table below.





(b) Service area

(1) The service areas of AM and FM broadcasts are vastly different. Sometimes an AM broadcast can be received very clearly but an FM stereo cannot. FM stereo has the smallest service area, and is prone to pick up static and other types of interference such as noise.

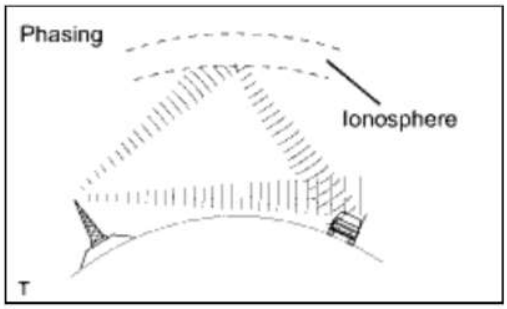
(c) Radio reception problems

HINT:

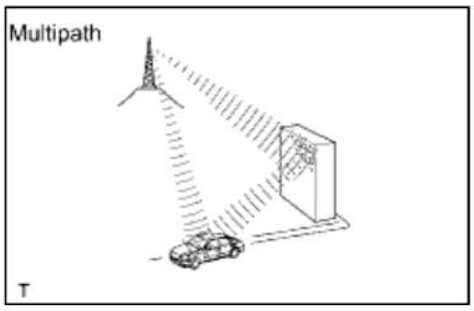
In addition to static, other problems such as "phasing", "multipath", and "fade out" exist. These problems are not caused by electrical noise, but by the radio signal propagation method itself.

(1) Phasing

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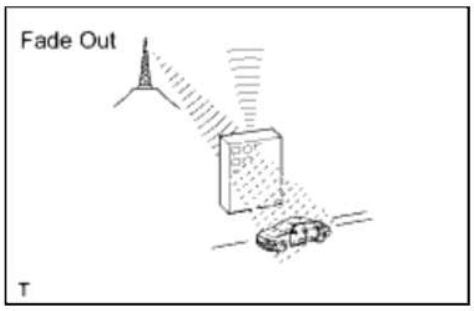


AM broadcasts are susceptible to electrical interference and another kind of interference called phasing. Occurring only at night, phasing is the interference created when a vehicle receives 2 radio wave signals from the same transmitter. One signal is reflected off the ionosphere and the other signal is received directly from the transmitter.



(2) Multipath

Multipath is a type of interference created when a vehicle receives 2 radio wave signals from the same transmitter. One signal is reflected off buildings or mountains and the other signal is received directly from the transmitter.



(3) Fade out

Fade out is caused by objects (buildings, mountains, and other such large obstacles) that deflect away part of a signal, resulting in a weaker signal when the object is between the transmitter and vehicle. High frequency radio waves, such as FM broadcasts, are easily deflected by obstructions. Low frequency radio waves, such as AM broadcasts, are less likely to deflect.

(d) Noise problem

Technicians must have a clear understanding about each customer's noise complaint. Use the following table to diagnose noise problems.

RADIO FREQUENCY	NOISE OCCURRENCE CONDITION	PRESUMABLE CAUSE
AM	Noise occurs in a specified area	Foreign noise
AM	Noise occurs when listening to an intermittent broadcast	An identical program transmitted from multiple towers can cause noise where the signals overlap
AM	Noise occurs only at night	Signal phasing
FM	Noise occurs while driving in a specified area	Multipath resulting from a change in FM frequency

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Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012A803OX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: PROBLEM SYMPTOMS TABLE (2010 Corolla)		

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Audio Function

SYMPTOM	SUSPECTED AREA	SEE PAGE
Pressing power switch does not turn on system.	Proceed to "Pressing Power Switch does not Turn on System"	INFO
	Radio receiver power source circuit	INFO
	AVC-LAN circuit*1	INFO
	Radio receiver	INFO
Panel switch does not function.	Steering pad switch circuit*2	INFO
	AVC-LAN circuit*1	INFO
	Radio receiver	INFO
No sound can be heard from speakers. (Audio is mute.) (for 8 speakers)	Radio receiver power source circuit	INFO
	Proceed to "No Sound can be Heard from Speakers"	INFO
	Stereo component amplifier power source circuit	INFO
	Proceed to "Sound Signal Circuit between Radio Receiver and Stereo Component Amplifier"	INFO
	Speaker circuit	INFO
	Proceed to "Mute Signal Circuit between Radio Receiver and Stereo Component Amplifier"	INFO
	Stereo component amplifier	INFO
	Radio receiver	INFO
No sound can be heard from speakers.	Radio receiver power source circuit	INFO

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SYMPTOM	SUSPECTED AREA	SEE PAGE
(Audio is mute.) (except for 8 speakers)	Proceed to "No Sound can be Heard from Speakers"	INFO
	Speaker circuit	INFO
	Radio receiver	INFO
Sound quality is bad in all modes. (Volume is too low.) (for 8 speakers)	Proceed to "Poor Sound Quality in All Modes (Low Volume)"	INFO
	Speaker circuit.	INFO
	Proceed to "Sound Signal Circuit between Radio Receiver and Stereo Component Amplifier"	INFO
	Proceed to "Mute Signal Circuit between Radio Receiver and Stereo Component Amplifier"	INFO
	Stereo component amplifier	INFO
	Radio receiver	INFO
Sound quality is bad in all modes. (Volume is too low.) (except for 8 speakers)	Proceed to "Poor Sound Quality in All Modes (Low Volume)"	INFO
	Speaker circuit	INFO
	Radio receiver	INFO
ASL does not function. (for 8 speakers)	Proceed to "Vehicle Speed Signal Circuit between Stereo Component Amplifier and Combination Meter"	INFO
ASL does not function. (except for 8 speakers)	Proceed to "Vehicle Speed Signal Circuit between Radio Receiver and Combination Meter"	INFO
External device sound cannot be heard or sound quality is bad. (Stereo jack is used.)	Radio receiver power source circuit	INFO
	Proceed to "Sound Signal Circuit between Radio Receiver and Stereo Jack Adapter"	INFO
	Stereo jack adapter	INFO
	Radio receiver	INFO
Abnormal noise occurs. (for 8 speakers)	Proceed to "Noise Occurs"	INFO
	Stereo component amplifier	INFO
	Radio receiver	INFO
Abnormal noise occurs. (except for 8 speakers)	Proceed to "Noise Occurs"	INFO
	Radio receiver	INFO

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SYMPTOM	SUSPECTED AREA	SEE PAGE
Radio broadcast cannot be received or poor reception.	Proceed to "Radio Broadcast cannot be Received or Poor Reception"	INFO
CD cannot be inserted / played or CD is ejected right after insertion.	Radio receiver power source circuit	INFO
	Proceed to "CD cannot be Inserted / Played or CD is Ejected Right After Insertion"	INFO
CD cannot be ejected.	Radio receiver power source circuit	INFO
	Proceed to "CD cannot be Ejected"	INFO
Sound quality is bad only when CD is played. (Volume is too low.)	Proceed to "Sound Quality is Bad Only when CD is Played (Volume is Too Low)"	INFO
CD sound skips.	Proceed to "CD Sound Skips"	INFO
Radio receiver cannot be illuminated at night.	Illumination circuit	INFO
	Radio receiver	INFO

Steering Pad Switch Function*2

SYMPTOM	SUSPECTED AREA	SEE PAGE
Audio system cannot be operated with steering pad switch.	Steering pad switch circuit	INFO
	Radio receiver	INFO
Steering pad switch cannot be illuminated at night.	Illumination circuit	INFO
	Radio receiver	INFO

"Bluetooth" Function*1

SYMPTOM	SUSPECTED AREA	SEE PAGE
Cellular phone registration failure, phone directory transfer failure.	Proceed to "Cellular Phone Registration Failure, Phone Directory Transfer Failure"	INFO
Cellular phone cannot send / receive.	Proceed to "Cellular Phone cannot Send / Receive"	INFO
	Steering pad switch circuit	INFO
	Radio receiver	INFO
The other callers voice cannot be heard, is too quiet, or distorted.	Proceed to "The Other Callers Voice cannot be Heard, is too Quiet, or Distorted"	INFO
	Proceed to "Cellular Phone Voice Circuit between Radio Receiver and Stereo Component Amplifier"	INFO

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SYMPTOM	SUSPECTED AREA	SEE PAGE
	Radio receiver	INFO
	Stereo component amplifier	INFO
The other caller cannot hear your voice, or your voice is too quiet or distorted.	Proceed to "The Other Caller cannot Hear Your Voice, or Your Voice is too Quiet or Distorted"	INFO
	Proceed to "Microphone Circuit between Microphone and Radio Receiver"	INFO
	Microphone	INFO
	Radio receiver	INFO

SDARS system Function*3

SYMPTOM	SUSPECTED AREA	SEE PAGE
Satellite radio broadcast cannot be received or reception is bad.	Proceed to "Satellite Radio Broadcast cannot be Received"	INFO
	Radio receiver	INFO
Pay type satellite radio broadcast cannot be received.	Proceed to "Satellite Radio Broadcast cannot be Received"	INFO
	Radio receiver	INFO
Satellite radio broadcast cannot be selected or after selecting broadcast, broadcast cannot be add into memory.	Proceed to "Satellite Radio Broadcast cannot be Received"	INFO
	Proceed to "Satellite Radio Broadcast cannot be Selected or After Selecting Broadcast, Broadcast cannot be Added into Memory"	INFO
	Radio receiver	INFO

- *1: for 8 Speakers
- *2: w/ Steering Pad Switch
- *3: w/ Satellite Radio

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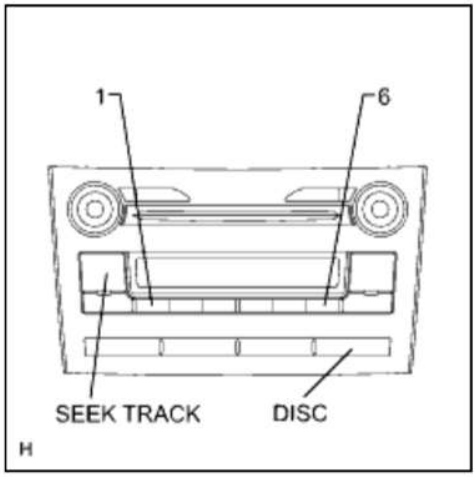
Last Modified: 3-10-2010	6.4 D	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000014CZ03EX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: DTC CHECK / CLEAR (2010 Corolla)		

DTC CHECK / CLEAR

HINT:

If the system cannot enter the diagnostic mode, inspect the AVC-LAN and all the components that connect to the AVC-LAN for short circuits and repair or replace the problem part INFO .

1. STARTING DIAGNOSTIC MODE



(a) Turn the ignition switch to ACC.

(b) Turn off the audio system.

(c) While pressing the preset switches "1" and "6" at the same time, press the "DISC" switch 3 times.

HINT:

A beep is emitted 3 times and the diagnostic function is activated. The system enters the all element illumination mode and the switch check mode.

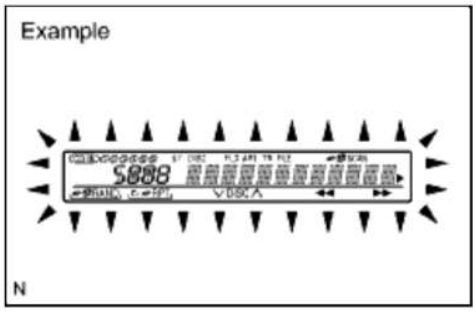
2. ALL ELEMENT ILLUMINATION MODE AND SWITCH CHECK MODE

HINT:

Illumination status of all switches and operations of the panel switches can be checked.

(a) Check that all elements are on.

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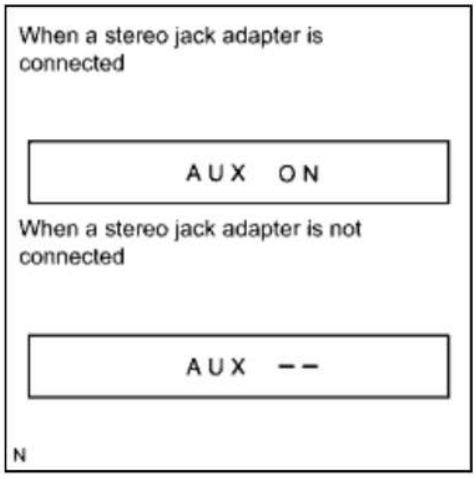


(b) When pressing each panel switch, check that a beep is emitted.

HINT:

Pressing the "SEEK TRACK UP" switch transfers the screen to the stereo jack adapter connection check screen. Check the operation of this switch by confirming the transfer of the screen.

3. STEREO JACK ADAPTER CONNECTION CHECK MODE



(a) Press the "SEEK TRACK UP" switch.

(b) Check if the stereo jack adapter is recognized.

HINT:

- Vehicles that do not have a stereo jack adapter also have this function.
- This function is not to check connection status to an external device, but to check recognition of the stereo jack adapter.

4. SERVICE CHECK MODE

(a) Press the "SEEK TRACK UP" switch.

HINT:

For details of the service check mode, refer to "6. Check DTC" and "7. DTC Clear/Recheck".

5. FINISHING DIAGNOSTIC MODE

(a) Press the "DISC" switch for 2 seconds or more, or turn the ignition switch off.

6. CHECK DTC

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HINT:

Illustrations may differ from the actual vehicle depending on the device settings and options. Therefore, some detailed areas may not be shown exactly the same as on the actual vehicle.

(a) Reference:

In the system check mode, the system check and the diagnostic memory check are performed, and the check results are displayed in ascending order of the component codes (physical address).

TERM	MEANING
Component code (Physical address)	Three-digit code (in hexadecimal) given to each device comprising AVC-LAN. Corresponding to its function, individual symbol is provided.
Logical address	Two-digit code (in hexadecimal) given to each function and device unit in each device comprising AVC-LAN.

(b) Service check result display

DISPLAY	PREVIOUS TERM	MEANING	ACTION TO BE TAKEN
good	Good (normal)	No DTCs are detected in both "System Check Mode" and "Diagnostic Memory Mode".	-
nCon	No connection	The system recognized the component when it was registered, but the component gives no response to the "Diagnostic Mode ON Request".	Check the power source circuit and the communication circuit of the component indicated by the component code (physical address).
ECHn	Exchange	One or more DTCs for "Exchange" are detected in either "System Check Mode" or "Diagnostic Memory Mode".	Go to the detailed information mode to check the trouble area referring to the DTC list.
CHEC	Check	When no DTCs are detected for "Exchange", one or more DTCs for "Check" are detected in either "System Check Mode" or "Diagnostic Memory Mode".	Go to the detailed information mode to check the trouble area referring to the DTC list.
OLd	Old version	Old DTC application is identified and DTC is detected in either "System Check Mode" or "Diagnostic Memory Mode".	-
nrES	No response	The device gives no response to any one of "System Check Mode ON Request", "System Check Result	Check the power source circuit and the communication circuit of the component indicated by the

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DISPLAY	PREVIOUS TERM	MEANING	ACTION TO BE TAKEN
		Request", and "Diagnostic Memory Request".	component code (physical address).

(c) Device name and physical address

PHYSICAL ADDRESS NO.	NAME
190	Radio receiver
440	Stereo component amplifier

(d) Service check mode

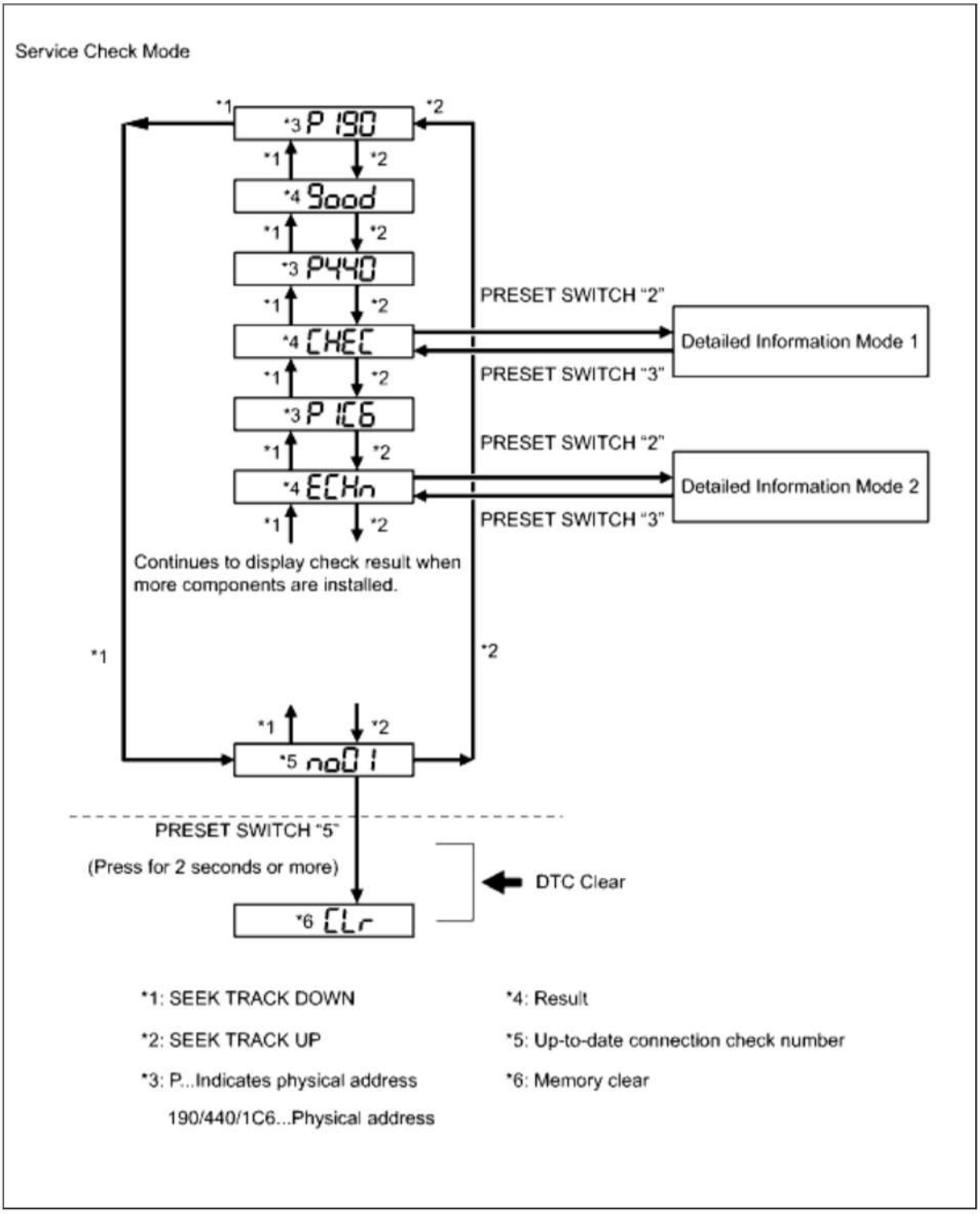
(1) Press the "SEEK TRACK" switch to see the check result of each component.

(2) The component code (physical address) is displayed first, and then the check result follows.

HINT:

- If all check results are "good", the system judges that no DTC exists.
- If the preset switch "1" is pressed in the service check mode, service check is performed again.
- This illustration is only an example and may differ for each optional part and output DTCs.

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(e) Detailed information mode 1

HINT:

- "Detailed Information Mode 1" is displayed when there is no response to "System Check Result Request" and DTC is detected only in "Diagnostic Memory Request".
- The component device code (physical address) is displayed first, and then the check result follows.
- This illustration is only an example and may differ in cases such as for each option part and output DTCs.

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(1) Press the preset switch "2" to go to the "Detailed Information Mode 1".

(2) Press the "SEEK TRACK" switch to display the physical address and DTC of the component.

(3) Press the preset switch "3" to go to the "Service Check Mode".

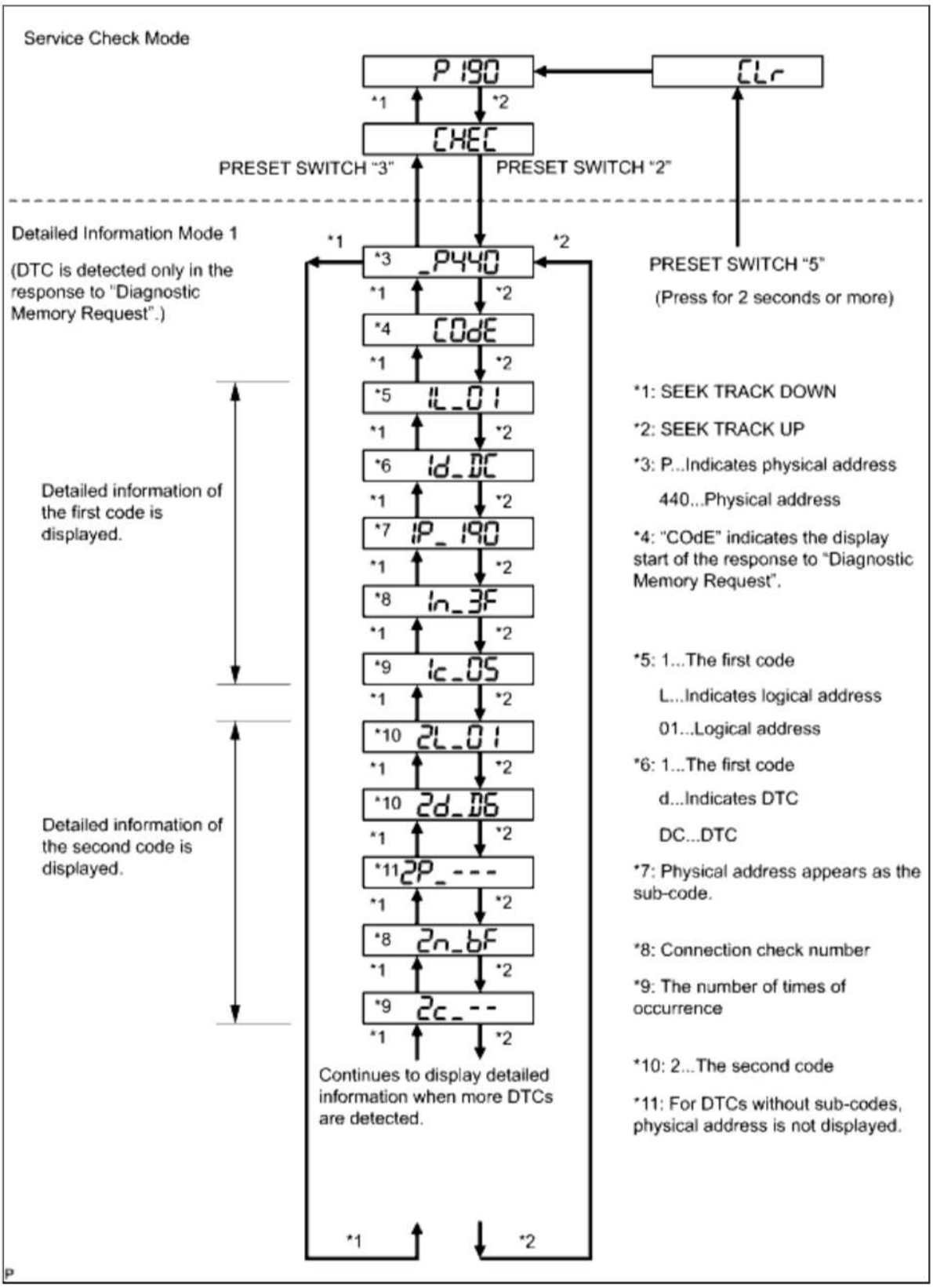
(4) Select between the displays of the responses to "System Check Result Request" and "Diagnostic Memory Request". In order to distinguish the information detected in "System Check Mode" and "Diagnostic Memory Mode" in "ECHn", "CHEC", and "OLd" in "Detailed Information Mode 1", refer to the following:

- "SyS" is displayed before the detailed codes detected as a result of "System Check Result Request" are displayed.
- "COdE" is displayed before the detailed codes detected as a result of "Diagnostic Memory Request" are displayed.

HINT:

- The response to "System Check Result Request" is the current information given from each ECU as a result of the system check.
- The response to "Diagnostic Memory Request" contains the information received from each ECU or stored in each ECU in the past.
- The response to "Diagnostic Memory Request" is the output DTCs as a result of the diagnostic memory check or the DTCs received from each ECU.
- "System Check Result Request (SyS)" is displayed first, and then the logical address and DTC appear in order.
- "Diagnostic Memory Request (COdE)" is displayed first, and then the logical address, DTC, sub-code, connection check number, and the number of occurrence appear in order.

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(f) Detailed information mode 2

HINT:

- "Detailed Information Mode 2" is displayed when DTCs are detected in the responses to both "System Check Result Request" and "Diagnostic Memory Request".

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- The component device code (physical address) is displayed first, and then the check result follows.
- This illustration is only an example and may differ in cases such as for each option part and output DTCs.

(1) Press the preset switch "2" to go to the "Detailed Information Mode 2".

(2) Press the "SEEK TRACK" switch to display the physical address and DTC of the component.

(3) Press the preset switch "3" to go to the "Service Check Mode".

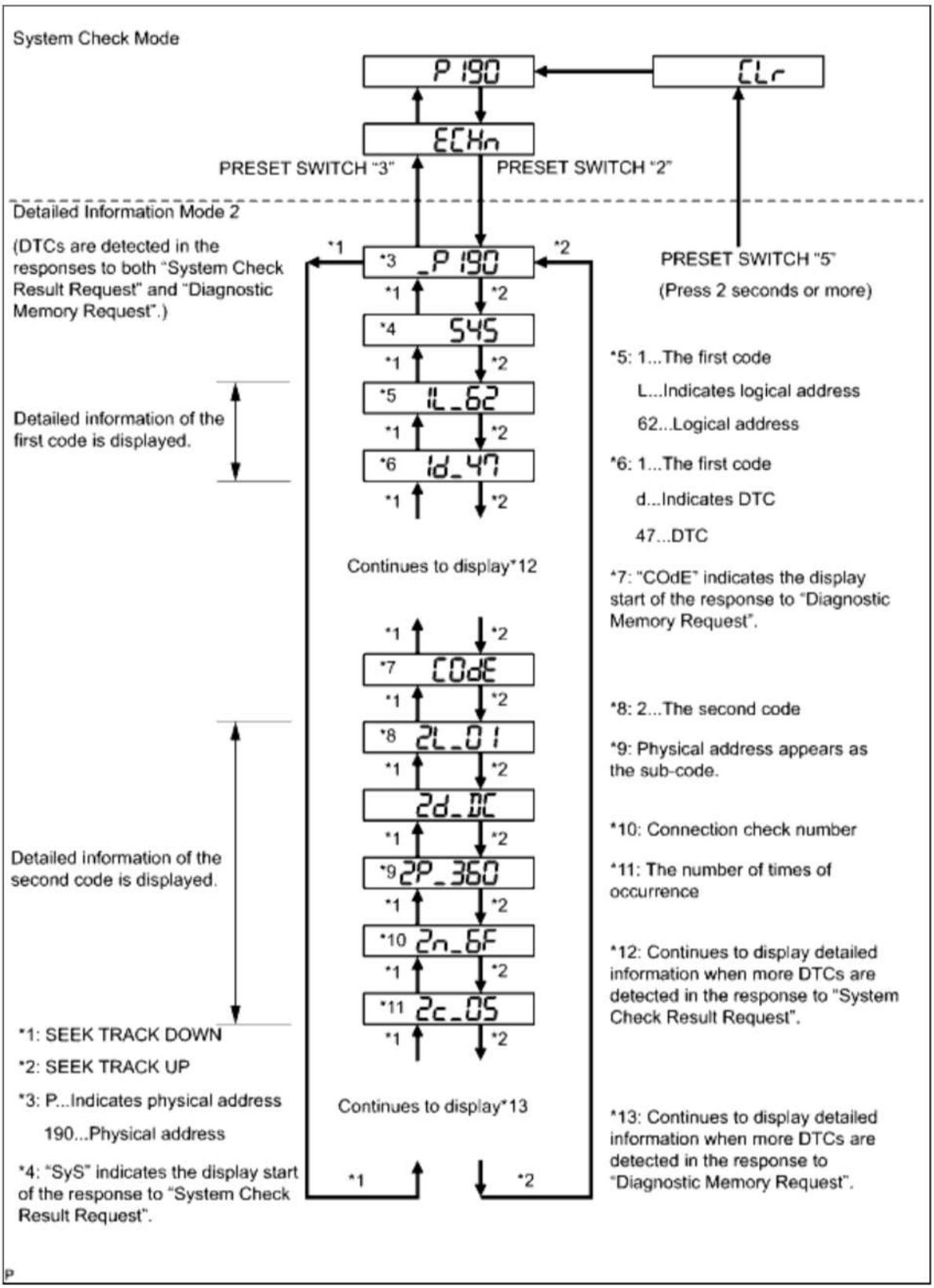
(4) Select between the displays of the responses to "System Check Result Request" and "Diagnostic Memory Request". In order to distinguish the information detected in "System Check Mode" and "Diagnostic Memory Mode" in "ECHn", "CHEC", and "OLd" in "Detailed Information Mode 2", refer to the following:

- "SyS" is displayed before the detailed codes detected as a result of "System Check Result Request" are displayed.
- "COdE" is displayed before the detailed codes detected as a result of "Diagnostic Memory Request" are displayed.

HINT:

- The response to "System Check Result Request" is the current information given from each ECU as a result of the system check.
- The response to "Diagnostic Memory Request" contains the information received from each ECU or stored in each ECU in the past.
- The response to "Diagnostic Memory Request" are the output DTCs as a result of the diagnostic memory check or the DTCs received from each ECU.
- "System Check Result Request (SyS)" is displayed first, and then the logical address and DTC appear in order.
- "Diagnostic Memory Request (COdE)" is displayed first, and then the logical address, DTC, sub-code, connection check number, and the number of occurrence appear in order.

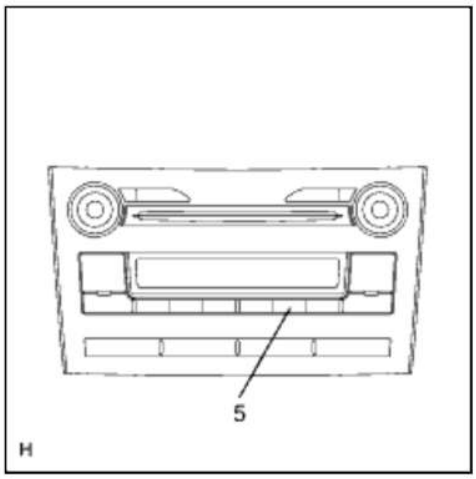
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7. DTC CLEAR/RECHECK

(a) Clearing All DTC Memory (when clearing all the memory of the previously detected DTCs).

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(1) When the preset switch "5" is pressed for 2 seconds or more during "Service Check Mode", the DTCs for all components are cleared. ("CLr" is displayed at this time.)

HINT:

- A beep sound is emitted once when the DTC memory is completely cleared.
- When the DTC memory for all the components is cleared, only the component codes (physical address) are displayed.
- After the DTC memory is cleared, the "Service Check Mode" is restored.

(b) Clearing the specified DTC Memory (when clearing the specified memory of the previously detected DTC).

(1) When the preset switch "5" is pressed for 2 seconds or more during "Detailed Information Mode 1" or "Detailed Information Mode 2", the DTCs for the target component are cleared.

HINT:

- A beep sound is emitted once when the DTC memory is completely cleared.
- When the DTC memory is cleared, only the component code (physical address) is displayed for the target component.
- After the DTC memory is cleared, the "Service Check Mode" is restored.
- To check DTCs, press the preset switch "1" and perform the system check again.

(c) Press the preset switch "1" to perform the service check again, and check that no DTCs are displayed for all the component codes (physical address).

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Last Modified: 3-10-2010	6.4 S	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000017YP02UX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: DIAGNOSTIC TROUBLE CODE CHART (2010 Corolla)		

DIAGNOSTIC TROUBLE CODE CHART

Communication Diagnosis

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
01-21	ROM Error	Radio receiver	INFO
01-22	RAM Error	Radio receiver	INFO
01-2E	EEPROM Error	Radio receiver	INFO
01-D5	Absence of Registration Unit	1. Power source circuit of the component shown by the sub-code 2. AVC-LAN circuit between the radio receiver and the component shown by the sub-code 3. Component shown by the sub-code	INFO
01-D6	No Master	1. Radio receiver power source circuit 2. Power source circuit of the component which has stored this code 3. AVC-LAN circuit between the radio receiver and the component which has stored this code 4. Component which has stored this code 5. Radio receiver	INFO
01-D7	Connection Check Error	1. Radio receiver power source circuit 2. Power source circuit of the component which has stored this code 3. AVC-LAN circuit between the radio receiver and the component which has stored this code 4. Component which has stored this code 5. Radio receiver	INFO
01-D8	No Response for Connection Check	1. Power source circuit of the component shown by the sub-code 2. AVC-LAN circuit between the radio receiver and the component shown by the sub-code 3. Component shown by the sub-code	INFO
01-D9	Last Mode Error	1. Power source circuit of the component shown by the sub-code 2. AVC-LAN circuit between the radio receiver and the component shown by the sub-code 3. Component shown by the sub-code	INFO

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DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
01-DA	No Response Against ON / OFF Command	1. Power source circuit of the component shown by the sub-code 2. AVC-LAN circuit between the radio receiver and the component shown by the sub-code 3. Component shown by the sub-code	INFO
01-DB	Mode Status Error	1. Power source circuit of the component shown by the sub-code 2. AVC-LAN circuit between the radio receiver and the component shown by the sub-code 3. Component shown by the sub-code	INFO
01-DC	Transmission Error	If the same sub-code is recorded in other components, check power source circuit and communication system of all components shown by code	INFO
01-DD	Master Reset	1. Radio receiver power source circuit 2. AVC-LAN circuit between the radio receiver and the component which has stored this code 3. Radio receiver 4. Component which has stored this code	INFO
01-DE	Slave Reset	1. Power source circuit of the component shown by the sub-code 2. AVC-LAN circuit between the radio receiver and the component shown by the sub-code 3. Component shown by the sub-code	INFO
01-DF	Master Error	1. Radio receiver power source circuit 2. AVC-LAN circuit between the radio receiver and the component which has stored this code 3. Radio receiver 4. Component which has stored this code	INFO
01-E0	Registration Complete Indication Error	-	INFO
01-E1	Voice Processing Device ON Error	1. Radio receiver power source circuit 2. AVC-LAN circuit between the radio receiver and the component which has stored this code 3. Radio receiver 4. Component which has stored this code	INFO
01-E2	ON / OFF Indication Parameter Error	Radio receiver	INFO
01-E3	Registration Demand Transmission	-	INFO
01-E4	Multiple Frame Incomplete	-	INFO

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DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
01-F2	No Response from Diagnosis Memory Request	Stereo component amplifier	INFO
01-FF	No Response to Diagnosis Request	Stereo component amplifier	INFO

Radio Unit

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
60-10	AM Tuner PLL does not Lock	Radio Receiver	INFO
60-11	FM Tuner PLL does not Lock	Radio Receiver	INFO
60-42	Tuner Power Source Error	Radio Receiver	INFO
60-43	AM Tuner Error	Radio Receiver	INFO
60-44	FM Tuner Error	Radio Receiver	INFO
60-50	Malfunction in Internal IC	Radio Receiver	INFO

Telephone

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
57-47	Bluetooth Module Initialization Failed	Radio receiver	INFO

CD Player

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
62-10	CD Player Mechanical Error	Radio receiver	INFO
62-11	CD Insertion and Ejection Error	Radio receiver	INFO
62-12	CD Reading Abnormal	Radio receiver	INFO
62-41	Wrong Disc	1. CD 2. Radio receiver	INFO
62-42	Disc cannot be Read	1. CD 2. Radio receiver	INFO
62-43	CD-ROM Abnormal	1. CD 2. Radio receiver	INFO
62-44	CD Abnormal	Radio receiver	INFO
62-45	Eject Error	Radio receiver	INFO

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DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
62-46	Scratched / Reversed Disc	1. CD 2. Radio receiver	INFO
62-47	High Temperature	Radio receiver	INFO
62-48	Excess Current	Radio receiver	INFO
62-50	Tray Insertion / Ejection Error	Radio receiver	INFO
62-51	Elevator Error	Radio receiver	INFO
62-52	Clamp Error	Radio receiver	INFO
62-78	DSP Error	-	INFO
62-7D	Disc cannot be Played	1. CD 2. Radio receiver	INFO
62-7E	No Playable Files	1. CD 2. Radio receiver	INFO
62-7F	Copyright Protection Error	1. CD 2. Radio receiver	INFO

In-dash CD Changer

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
63-10	CD Changer Mechanical Error	Radio receiver	INFO
63-11	CD Insertion and Ejection Error	Radio receiver	INFO
63-12	CD Reading Abnormal	Radio receiver	INFO
63-41	Wrong Disc	1. CD 2. Radio receiver	INFO
63-42	Disc cannot be Read	1. CD 2. Radio receiver	INFO
63-43	CD-ROM Abnormal	1. CD 2. Radio receiver	INFO
63-44	CD Abnormal	Radio receiver	INFO
63-45	Eject Error	Radio receiver	INFO
63-46	Scratched / Reversed Disc	1. CD 2. Radio receiver	INFO
63-47	High Temperature	Radio receiver	INFO
63-48	Excess Current	Radio receiver	INFO
63-50	Tray Insertion / Ejection Error	Radio receiver	INFO

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DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
63-51	Elevator Error	Radio receiver	INFO
63-52	Clamp Error	Radio receiver	INFO
63-78	DSP Error	-	INFO
63-7D	Disc cannot be Played	1. CD 2. Radio receiver	INFO
63-7E	No Playable Files	1. CD 2. Radio receiver	INFO
63-7F	Copyright Protection Error	1. CD 2. Radio receiver	INFO

XM Tuner

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
C0-11	Satellite Radio Tuner Internal Circuit Error 1	Radio receiver	INFO
C0-12	Satellite Radio Tuner Internal Circuit Error 2	Radio receiver	INFO
C0-13	Satellite Radio Tuner Internal Circuit Error 3	Radio receiver	INFO
C0-14	Satellite Radio Tuner Internal Circuit Error 4	Radio receiver	INFO
C0-15	Satellite Radio Tuner Internal Circuit Error 5	Radio receiver	INFO
C0-16	Satellite Radio Tuner Internal Circuit Error 6	Radio receiver	INFO
C0-40	Antenna not Connected	1. Antenna cord 2. Satellite radio antenna 3. Radio receiver	INFO
C0-41	Antenna Shorted	1. Antenna cord 2. Satellite radio antenna 3. Radio receiver	INFO

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000183S02WX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-21,01-22,01-2E: ROM Error (2010 Corolla)		

DTC	**01-21**	**ROM Error**

DTC	**01-22**	**RAM Error**

DTC	**01-2E**	**EEPROM Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-21	A ROM malfunction exists.	Radio receiver
01-22	A RAM malfunction exists.	
01-2E	A checksum malfunction exists.	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**REPLACE RADIO RECEIVER**

HINT:

Removal INFO

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000183U02ZX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-D6,01-D7: No Master (2010 Corolla)		

DTC	**01-D6**	**No Master**

DTC	**01-D7**	**Connection Check Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-D6 *1	When either of the following conditions is met: • The device that stores (stored) the code has (had) been disconnected while the ignition switch is ON or ACC. • The master device has (had) been disconnected when this code is stored.	• Radio receiver power source circuit • Power source circuit of the component which has stored this code • AVC-LAN circuit between the radio receiver and the component which has stored this code • Component which has stored this code • Radio receiver
01-D7 *2	When either of the following conditions is met: • The device that stored the code has (had) been disconnected after the engine starts (started). • The master device has (had) been disconnected when this code is (was) stored.	

HINT:

- *1: Even if no fault is present, this trouble code may be stored depending on the battery condition or engine start voltage.
- *2: When 210 seconds have elapsed after disconnecting the power supply connector of the master component with the ignition switch ON or ACC, this code is stored.

NOTICE:

- Before starting troubleshooting, be sure to clear the DTCs stored due to the reasons described in the HINT above. Then, check for DTCs and troubleshoot according to the output DTCs.
- The radio receiver is the master unit.
- Be sure to clear and recheck for the DTCs after the inspection is completed to confirm that no DTCs are output.

INSPECTION PROCEDURE

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NOTICE:

Be sure to read Description before performing the following procedures.

PROCEDURE

1.	CHECK RADIO RECEIVER POWER SOURCE CIRCUIT

Refer to Radio Receiver Power Source Circuit INFO .

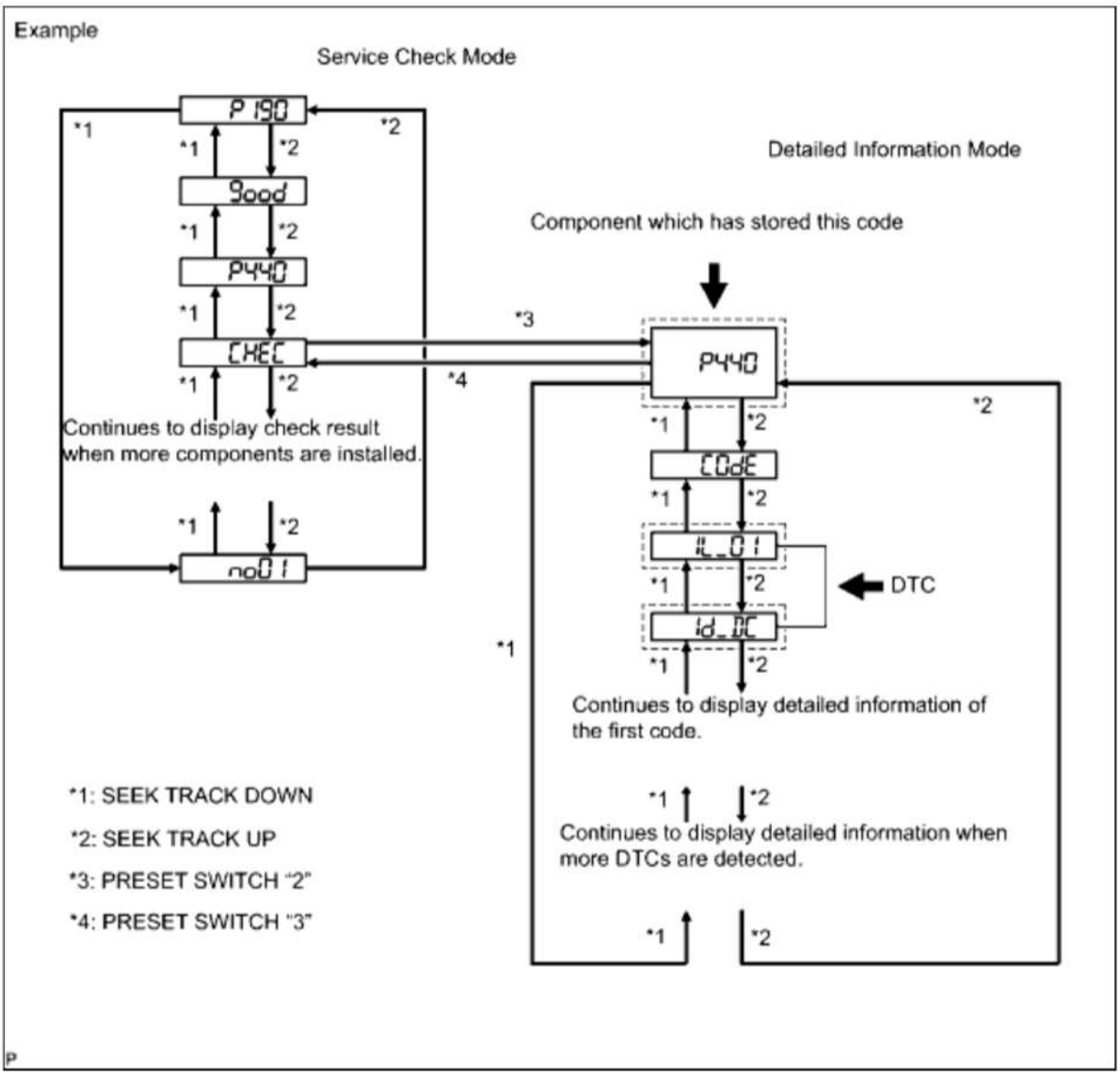
If the power source circuit is operating normally, proceed to the next step.

NEXT

2.	IDENTIFY THE COMPONENT WHICH HAS STORED THIS CODE

(a) Enter the diagnostic mode.

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(b) Press the preset switch "3" to change the mode to "Detailed Information Mode".

(c) Identify the component which has stored this code.

Component Table

COMPONENT	PHYSICAL ADDRESS
Stereo component amplifier	440

HINT:

- "P440" set by the stereo component amplifier shown in the preceding illustration as an example.
- For details of the DTC display, refer to DTC Check/Clear INFO .

NEXT

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3.	CHECK POWER SOURCE CIRCUIT OF COMPONENT WHICH HAS STORED THIS CODE

(a) Inspect the power source circuit of the component which has stored this code.

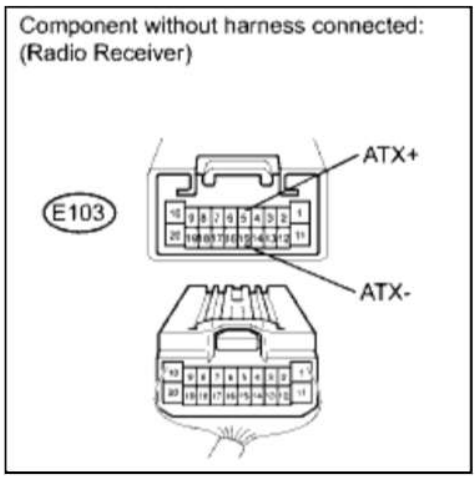
If the power source circuit is operating normally, proceed to the next step.

Component Table

COMPONENT	PROCEED TO
Stereo component amplifier	Stereo component amplifier power source circuit INFO

NEXT

4.	INSPECT RADIO RECEIVER



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-5 (ATX+) - E103-15 (ATX-)	Always	60 to 80 Ω

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NG ▶ **REPLACE RADIO RECEIVER**

OK ▼

5.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMPONENT WHICH HAS STORED THIS CODE)**

HINT:

For details of the connectors, refer to Terminals of ECU INFO .

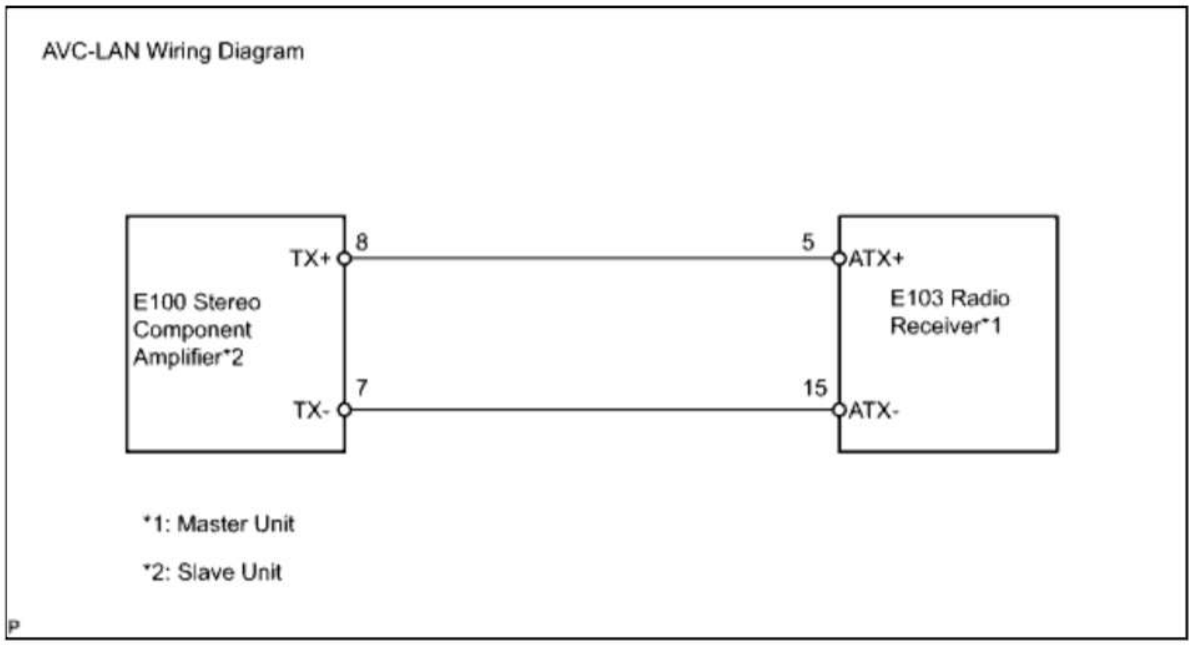
(a) Referring to the following AVC-LAN Wiring Diagram, check the AVC-LAN circuit between the radio receiver and the component which has stored this code.

(1) Disconnect all connectors between the radio receiver and the component which has stored this code.

(2) Check for an open or short in the AVC-LAN circuit between the radio receiver and the component which has stored this code.

OK:

There is no open or short circuit.



NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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OK

6.	**REPLACE COMPONENT WHICH HAS STORED THIS CODE**

(a) Replace the component which has stored this code with a known good one and check if the same problem occurs again.

OK:

Same problem does not occur.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000183T02XX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-D5,01-D8,01-D9,01-DA,01-DB,01-DE: Absence of Registration Unit (2010 Corolla)		

DTC	**01-D5**	**Absence of Registration Unit**

DTC	**01-D8**	**No Response for Connection Check**

DTC	**01-D9**	**Last Mode Error**

DTC	**01-DA**	**No Response Against ON / OFF Command**

DTC	**01-DB**	**Mode Status Error**

DTC	**01-DE**	**Slave Reset**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-D5 *1, *3	A device indicated by the sub-code is (was) disconnected from the system while the ignition switch is ON or ACC. The communication condition with the device that the code shows cannot be obtained when the engine starts.	• Power source circuit of the component shown by the sub-code • AVC-LAN circuit between the radio receiver and the component shown by the sub-code • Component shown by the sub-code
01-D8 *2, *3	The device indicated by the sub-code is (was) disconnected from the system after the engine starts.	
01-D9 *1, *3	The device that had functioned before the engine stopped is (was) disconnected from the system	

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DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
	while the ignition switch is ON or ACC.	
01-DA *3	No response is identified when changing mode. Sound and image do not change by switch operation.	
01-DB *1, *3	A dual alarm is detected.	
01-DE *3, *4	A slave device has been disconnected after the engine starts	

HINT:

- *1: Even if no fault is present, this trouble code may be stored depending on the battery condition or engine start voltage.
- *2: If the power connector is disconnected after the engine starts, this code is stored after 180 seconds.
- *3: If the device is reported as not existing during verification, check the power source circuit and AVC-LAN circuit for the device.
- *4: This code may be stored if the engine is started and the ignition switch is turned to START again. (Key type ignition switch only)

NOTICE:

- Before starting troubleshooting, be sure to clear the DTCs stored due to the reasons described in the HINT above. Then, check for DTCs and troubleshoot according to the output DTCs.
- The radio receiver is the master unit.
- Be sure to clear and recheck for the DTCs after the inspection is completed to confirm that no DTCs are output.

INSPECTION PROCEDURE

NOTICE:

Be sure to read Description before performing the following procedures.

PROCEDURE

1.	**CHECK "RADIO RECEIVER COMMUNICATION ERROR" IN FLOW CHART**

Refer to Radio Receiver Communication Error INFO .

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000183V02WX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-DC: Transmission Error (2010 Corolla)		

DTC	**01-DC**	**Transmission Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-DC *1	Transmission to component shown by sub-code failed (Detecting this DTC does not always mean actual failure)	If the same sub-code is recorded in other components, check power source circuit and communication system of all components shown by code

HINT:

***1: This code may be stored if the engine is started, idled for 60 seconds and then the ignition switch is turned to START again. (Key type ignition switch only)**

NOTICE:

- Before starting troubleshooting, be sure to clear the DTCs stored due to the reasons described in the HINT above. Then, check for DTCs and troubleshoot according to the output DTCs.
- The radio receiver is the master unit.
- Be sure to clear and recheck for the DTCs after the inspection is completed to confirm that no DTCs are output.

INSPECTION PROCEDURE

NOTICE:

Be sure to read Description before performing the following procedures.

PROCEDURE

1.	**CHECK FOR DTC OF OTHER COMPONENTS**

(a) Check if the component shown by the sub-code is displayed in the check result of the other components.

(1) Check if "01-DC" is output for the other components.

(2) If "01-DC" is output for any other components, check if the same physical address is displayed.

Result:

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RESULT	PROCEED TO
"01-DC" is output and the same physical address is displayed	A
"01-DC" is not output or the same physical address is not displayed	B

HINT:

For the list of the components shown by sub-codes, refer to the table in step 2.

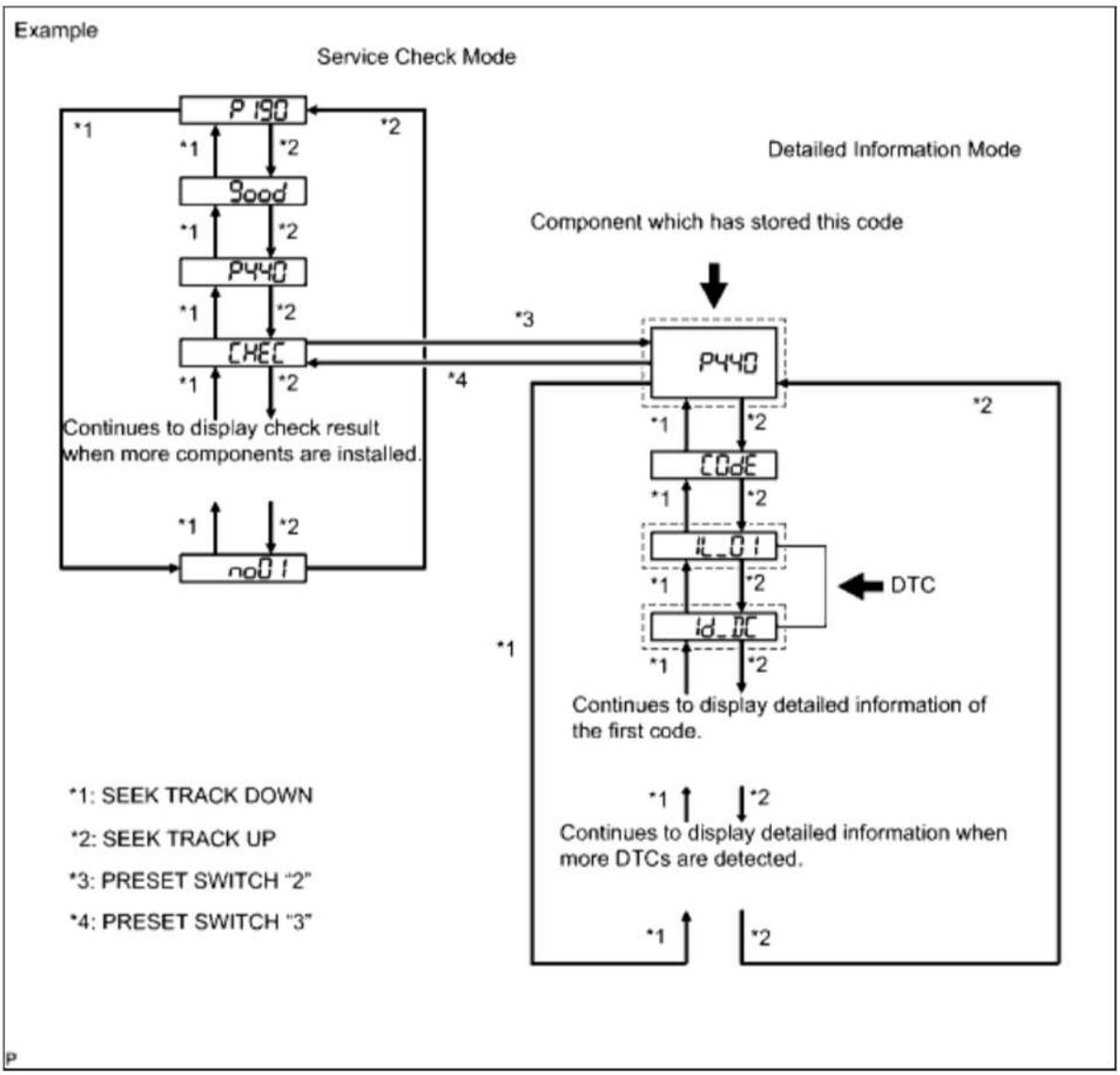
B ▶ CLEAR DTC

A ▼

2.	**IDENTIFY THE COMPONENT WHICH HAS STORED THIS CODE**

(a) Enter the diagnostic mode.

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(b) Press the preset switch "3" to change the mode to "Detailed Information Mode".

(c) Identify the component which has stored this code.

Component Table

COMPONENT	PHYSICAL ADDRESS
Stereo component amplifier	440
Radio receiver	190

HINT:

- "P440" set by the stereo component amplifier is shown in the preceding illustration as an example.
- For details of the DTC display, refer to DTC Check/Clear INFO .

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NEXT

3.	**CHECK COMPONENT WHICH HAS STORED THIS CODE**

(a) Select the component which has stored this code.

Component Table

COMPONENT	PROCEED TO
Stereo component amplifier	Stereo component amplifier communication error INFO
Radio receiver	Radio receiver communication error INFO

NEXT **END**

4.	**CLEAR DTC**

(a) Clear the DTCs INFO.

HINT:

If "01-DC" is output for only one component, this may not indicate a malfunction.

NEXT

5.	**RECHECK FOR DTC**

(a) Recheck for DTCs and check if the same trouble occurs again.

OK:
Malfunction disappears.

NG **CHECK COMPONENT WHICH HAS STORED THIS CODE**

OK **END**

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6.	CHECK COMPONENT WHICH HAS STORED THIS CODE

(a) Select the component which has stored this code.

Component Table

COMPONENT	PROCEED TO
Stereo component amplifier	Stereo component amplifier communication error INFO
Radio receiver	Radio receiver communication error INFO

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000183W02ZX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-DD,01-E1: Master Reset (2010 Corolla)		

DTC	**01-DD**	**Master Reset**

DTC	**01-E1**	**Voice Processing Device ON Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-DD *1	The device that should be the master has been disconnected after engine start.	• Radio receiver power source circuit • AVC-LAN circuit between the radio receiver and the component which has stored this code • Radio receiver • Component which has stored this code
01-E1 *2	The AMP device records that the AMP output does not function even while the source device operates.	

HINT:

***1: This code may be stored if the engine is started and the ignition switch is turned to START again. (Key type ignition switch only)**

***2: Even if no fault is present, this trouble code may be stored depending on the battery condition or engine start voltage.**

NOTICE:

- Before starting troubleshooting, be sure to clear the DTCs stored due to the reasons described in the HINT above. Then, check for DTCs and troubleshoot according to the output DTCs.
- The radio receiver is the master unit.
- Be sure to clear and recheck for the DTCs after the inspection is completed to confirm that no DTCs are output.

INSPECTION PROCEDURE

NOTICE:

Be sure to read Description before performing the following procedures.

PROCEDURE

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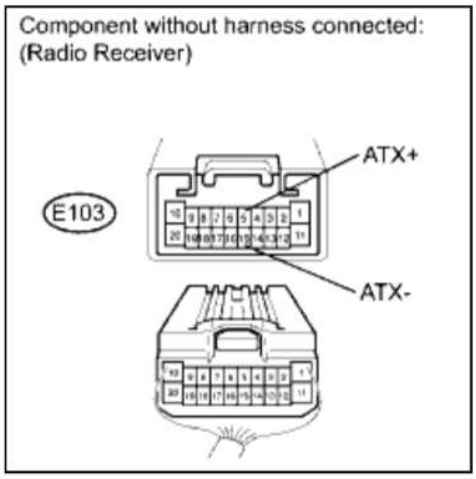
1.	CHECK RADIO RECEIVER POWER SOURCE CIRCUIT

Refer to Radio Receiver Power Source Circuit INFO .

If the power source circuit is operating normally, proceed to the next step.

NEXT

2.	INSPECT RADIO RECEIVER



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-5 (ATX+) - E103-15 (ATX-)	Always	60 to 80 Ω

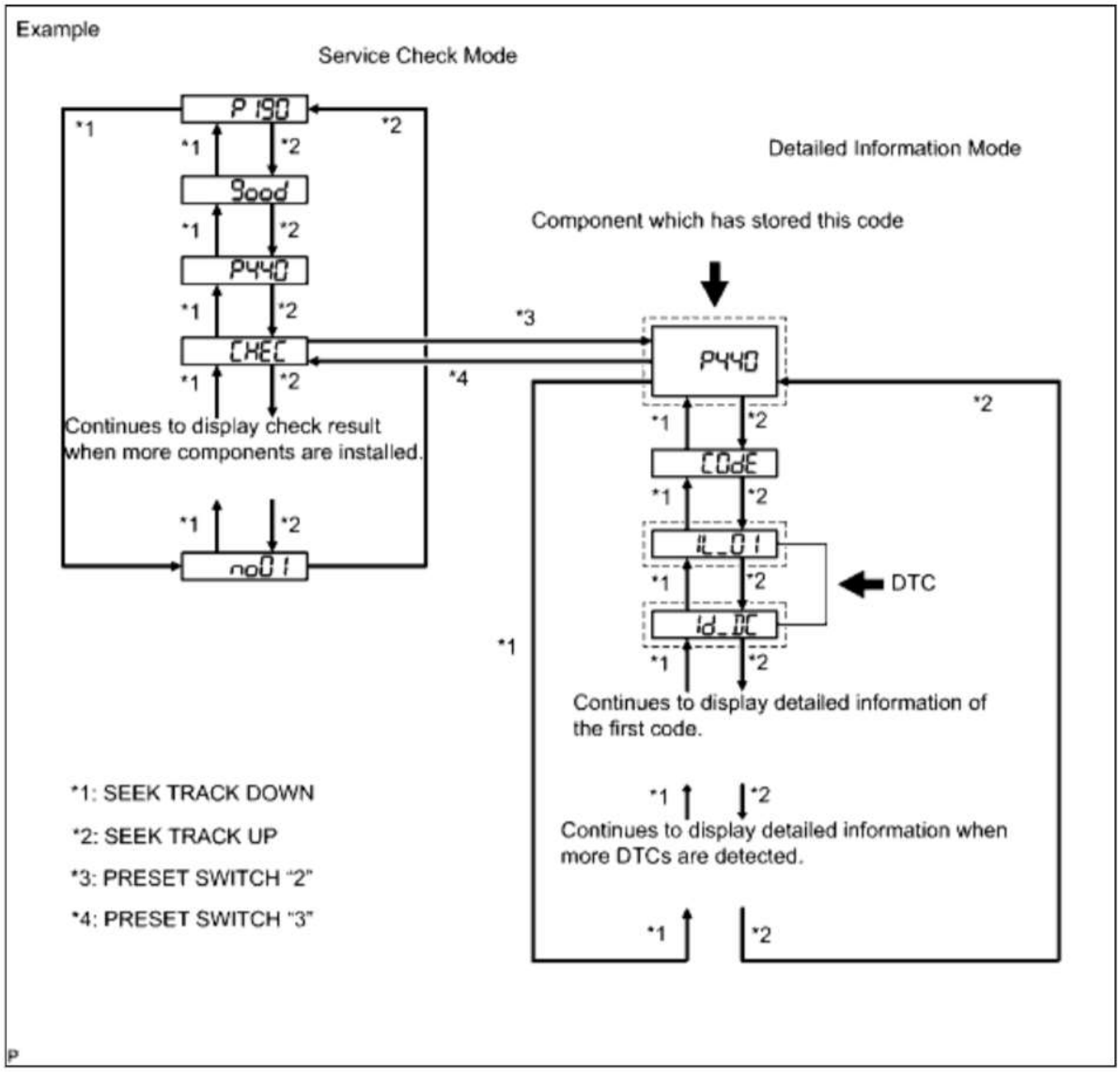
NG ▶ **REPLACE RADIO RECEIVER**

OK

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3.	IDENTIFY THE COMPONENT WHICH HAS STORED THIS CODE

(a) Enter the diagnostic mode.



(b) Press the preset switch "3" to change the mode to "Detailed Information Mode".

(c) Identify the component which has stored this code.

Component Table

COMPONENT	PHYSICAL ADDRESS
Stereo component amplifier	440

HINT:

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- "P440" set by the stereo component amplifier is shown in the preceding illustration as an example.
- For details of the DTC display, refer to DTC Check/Clear INFO .

NEXT

4.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMPONENT WHICH HAS STORED THIS CODE)**

HINT:

For details of the connectors, refer to Terminals of ECU INFO .

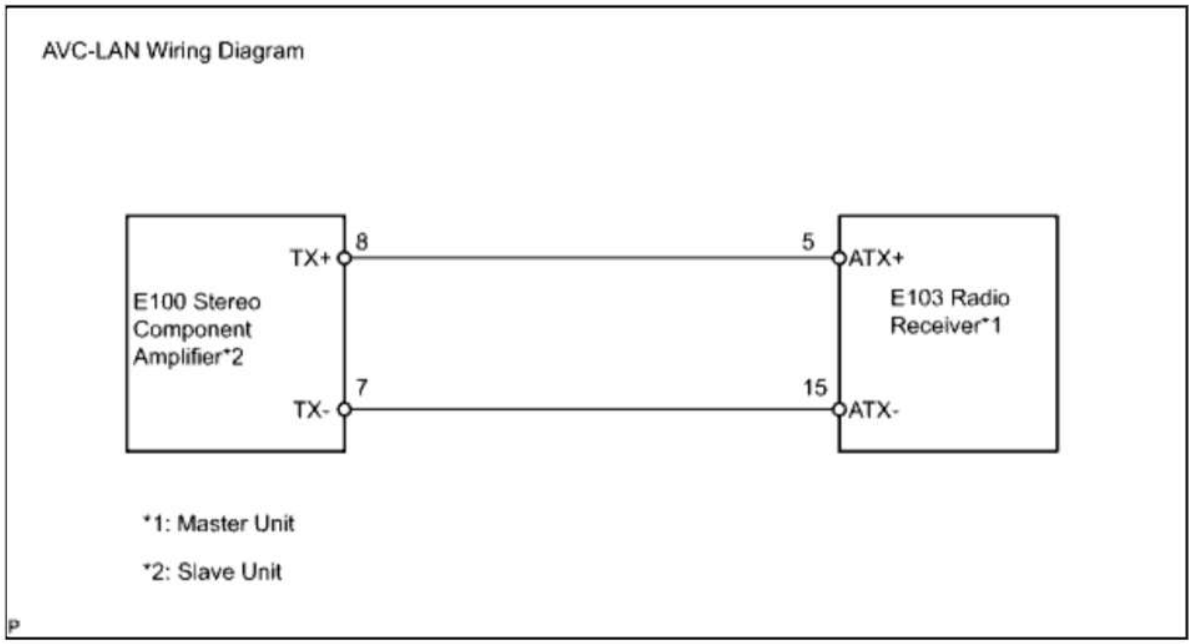
(a) Referring to the following AVC-LAN Wiring Diagram, check the AVC-LAN circuit between the radio receiver and the component which has stored this code.

(1) Disconnect all connectors between the radio receiver and the component which has stored this code.

(2) Check for an open or short in the AVC-LAN circuit between the radio receiver and the component which has stored this code.

OK:

There is no open or short circuit.



NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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OK

5.	**REPLACE RADIO RECEIVER**

(a) Replace the radio receiver with a known good one and check if the same problem occurs again.

OK:

Same problem does not occur.

NG ▶ **REPLACE COMPONENT WHICH HAS STORED THIS CODE**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000183X02ZX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-DF: Master Error (2010 Corolla)		

DTC	**01-DF**	**Master Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-DF *1	The device with a display fails and the master is switched to the audio device. Also when a communication error between the sub-master (audio) and master occurs, this code is stored.	• Radio receiver power source circuit • AVC-LAN circuit between the radio receiver and the component which has stored this code • Radio receiver • Component which has stored this code

HINT:

***1: When 210 seconds have elapsed after disconnecting the power supply connector of the master component with the ignition switch ON or ACC, this code is stored.**

NOTICE:

- Before starting troubleshooting, be sure to clear the DTCs stored due to the reasons described in the HINT above. Then, check for DTCs and troubleshoot according to the output DTCs.
- The radio receiver is the master unit.
- Be sure to clear and recheck for the DTCs after the inspection is completed to confirm that no DTCs are output.

INSPECTION PROCEDURE

NOTICE:

Be sure to read Description before performing the following procedures.

PROCEDURE

1.	**CHECK RADIO RECEIVER POWER SOURCE CIRCUIT**

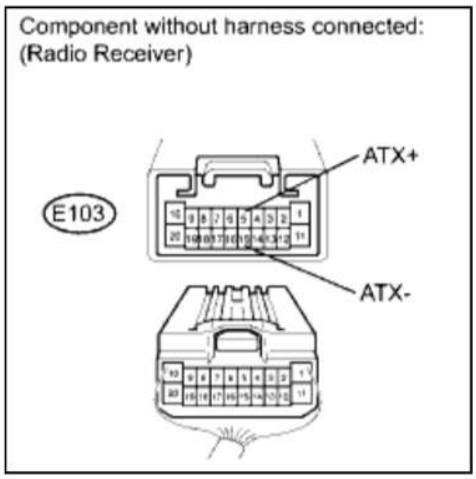
Refer to Radio Receiver Power Source Circuit INFO .

If the power source circuit is operating normally, proceed to the next step.

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NEXT

2.	**INSPECT RADIO RECEIVER**



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-5 (ATX+) - E103-15 (ATX-)	Always	60 to 80 Ω

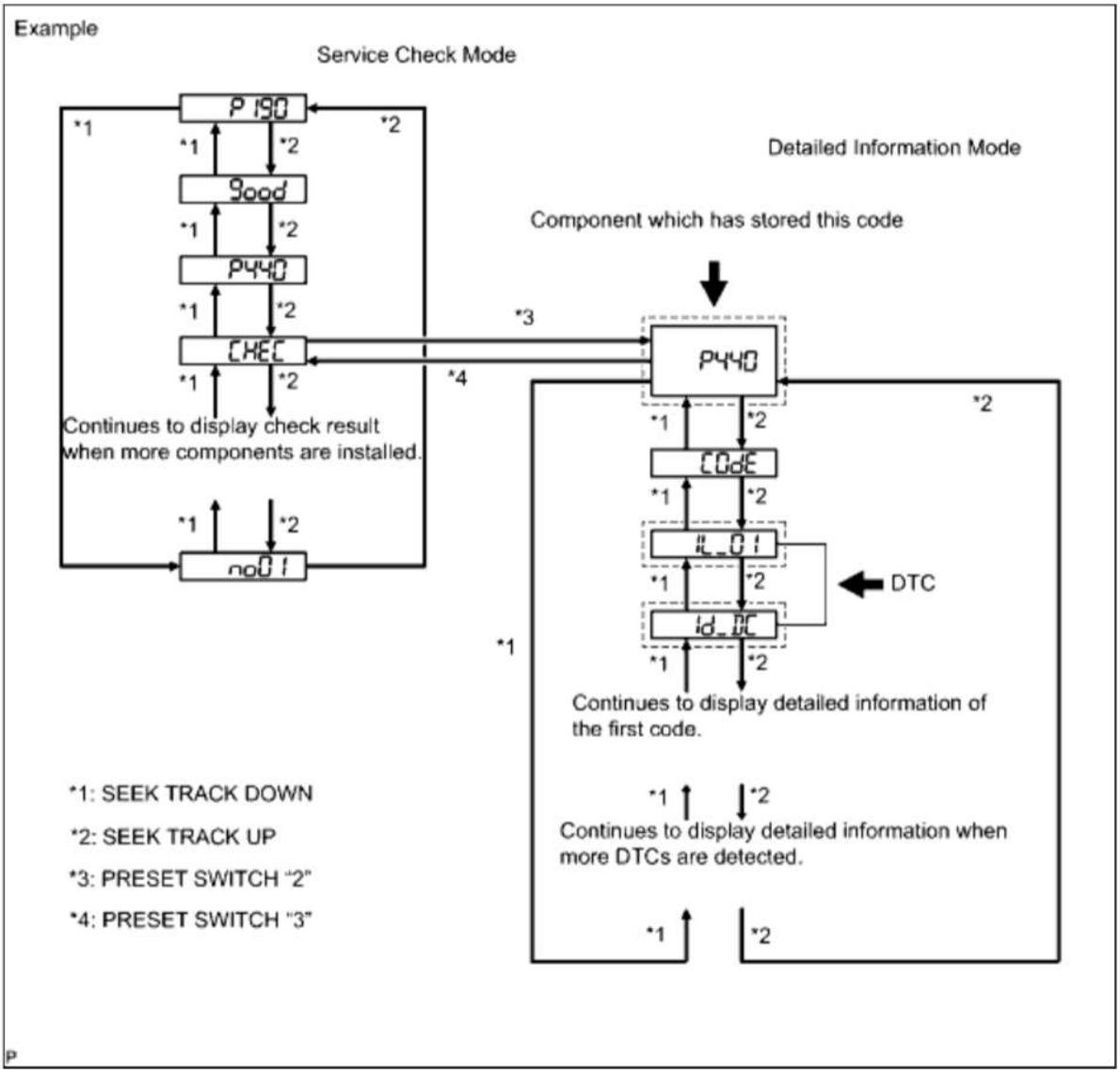
NG ▶ **REPLACE RADIO RECEIVER**

OK

3.	**IDENTIFY THE COMPONENT WHICH HAS STORED THIS CODE**

(a) Enter the diagnostic mode.

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(b) Press the preset switch "3" to change the mode to "Detailed Information Mode".

(c) Identify the component which has stored this code.

Component Table

COMPONENT	PHYSICAL ADDRESS
Stereo component amplifier	440

HINT:

- "P440" set by the stereo component amplifier is shown in the preceding illustration as an example.
- For details of the DTC display, refer to DTC Check/Clear INFO .

NEXT

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4.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMPONENT WHICH HAS STORED THIS CODE)**

HINT:

For details of the connectors, refer to Terminals of ECU INFO .

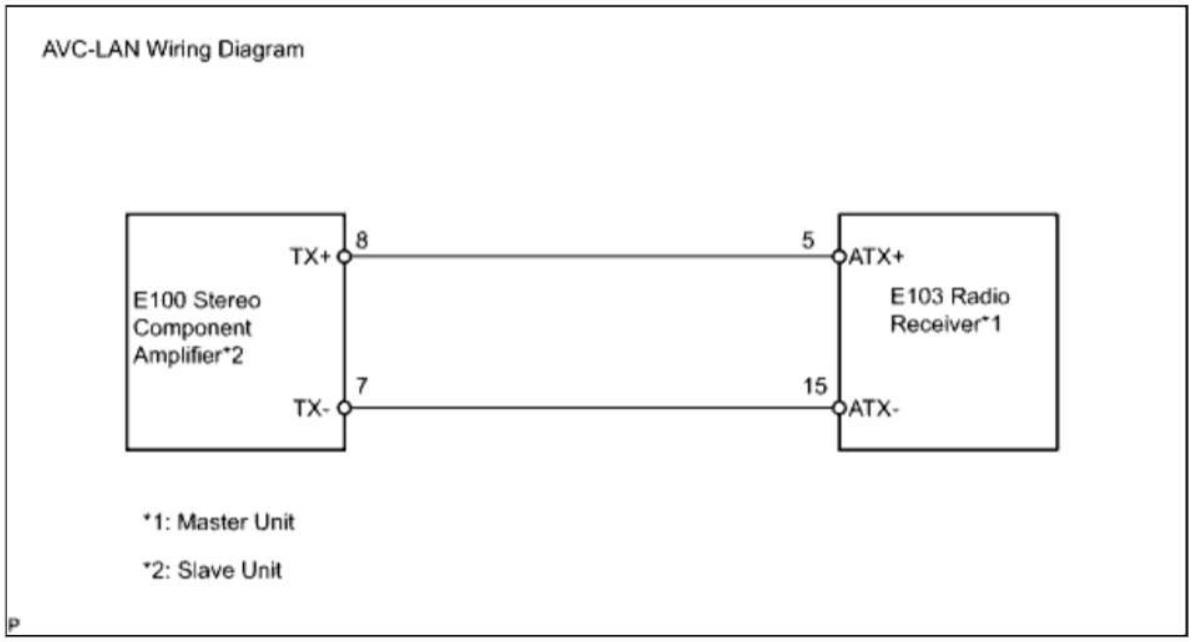
(a) Referring to the following AVC-LAN Wiring Diagram, check the AVC-LAN circuit between the radio receiver and the component which has stored this code.

(1) Disconnect all connectors between the radio receiver and the component which has stored this code.

(2) Check for an open or short in the AVC-LAN circuit between the radio receiver and the component which has stored this code.

OK:

There is no open or short circuit.



NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

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5.	**REPLACE RADIO RECEIVER**

(a) Replace the radio receiver with a known good one and check if the same problem occurs again.

OK:

Same problem does not occur.

NG ▶ **REPLACE COMPONENT WHICH HAS STORED THIS CODE**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001WQS02HX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-E0,01-E3,01-E4: Registration Complete Indication Error (2010 Corolla)		

DTC	**01-E0**	**Registration Complete Indication Error**

DTC	**01-E3**	**Registration Demand Transmission**

DTC	**01-E4**	**Multiple Frame Incomplete**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-E0	"Registration complete" signal from the master device cannot be received.	-
01-E3	The registration demand signal from the slave device is output. Or the registration demand signal is output by receiving connection confirmation signal from the sub-master device.	-
01-E4	The multiple frame transmission is incomplete.	-

HINT:

Even if no fault is present, this trouble code may be stored depending on the battery condition or engine start voltage.

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs. These DTCs do not indicate a malfunction.

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000183Z02VX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-E2: ON / OFF Indication Parameter Error (2010 Corolla)		

DTC	**01-E2**	**ON / OFF Indication Parameter Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-E2	The command for ON/OFF control from the master device has a problem.	Radio receiver

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**REPLACE RADIO RECEIVER**

HINT:

Removal INFO

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001WWI00MX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 01-F2,01-FF: No Response from Diagnosis Memory Request (2010 Corolla)		

DTC	**01-F2**	**No Response from Diagnosis Memory Request**

DTC	**01-FF**	**No Response to Diagnosis Request**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
01-F2	Any reply to a system inspection instruction, system inspection result request or diagnosis memory request could not be completed within a designated time.	Stereo component amplifier
01-FF	No response to a diagnosis request	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTC INFO.

NEXT

2.	**RECHECK FOR DTC**

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(a) Recheck for DTCs and check if the same trouble occurs again.

OK:

Malfunction disappears.

NG ▶ REPLACE STEREO COMPONENT AMPLIFIER

OK ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001YYZ05JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 57-47: Bluetooth Module Initialization Failed (2010 Corolla)		

DTC	**57-47**	**Bluetooth Module Initialization Failed**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
57-47	• "Bluetooth" module is not installed. • Problem with "Bluetooth" module • Problem in communication line to "Bluetooth" module	Radio receiver

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**REPLACE RADIO RECEIVER**

HINT:

Removal INFO

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000200N02HX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 60-10,60-11: AM Tuner PLL does not Lock (2010 Corolla)		

DTC	**60-10**	**AM Tuner PLL does not Lock**

DTC	**60-11**	**FM Tuner PLL does not Lock**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
60-10	AM tuner PLL (phase locked loop) synchronization is impossible.	Radio receiver
60-11	FM tuner PLL (phase locked loop) synchronization is impossible.	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**REPLACE RADIO RECEIVER**

HINT:

Removal INFO

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000200Q02NX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 60-42-60-44,60-50: Tuner Power Source Error (2010 Corolla)		

DTC	**60-42**	**Tuner Power Source Error**

DTC	**60-43**	**AM Tuner Error**

DTC	**60-44**	**FM Tuner Error**

DTC	**60-50**	**Malfunction in Internal IC**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
60-42	The power source of the tuner is abnormal.	Radio receiver
60-43	The AM tuner is abnormal.	
60-44	The FM tuner is abnormal.	
60-50	A problem occurs in the IC inside the tuner unit and radio reception is not normal.	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTCs INFO.

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NEXT

2.	**RECHECK FOR DTC**

(a) Recheck for DTCs and check if the same trouble occurs again.

HINT:

If DTCs are detected frequently, replace the radio receiver.

OK:
Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020EW01JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-10-62-12,63-10-63-12: CD Player Mechanical Error (2010 Corolla)		

DTC	**62-10**	**CD Player Mechanical Error**

DTC	**62-11**	**CD Insertion and Ejection Error**

DTC	**62-12**	**CD Reading Abnormal**

DTC	**63-10**	**CD Changer Mechanical Error**

DTC	**63-11**	**CD Insertion and Ejection Error**

DTC	**63-12**	**CD Reading Abnormal**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-10	A mechanical error in the CD player is detected while the CD is not being inserted or ejected.	Radio receiver
62-11	CDs cannot be inserted or ejected.	
62-12	CD read problem occurs.	
63-10	A mechanical error in the CD changer is detected while the CD is not being inserted or ejected.	
63-11	CDs cannot be inserted or ejected.	
63-12	CD read problem occurs.	

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INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	REPLACE RADIO RECEIVER

HINT:

Removal INFO

NEXT END

TOYOTA

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020EY01JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-41,62-42,63-41,63-42: Wrong Disc (2010 Corolla)		

DTC	**62-41**	**Wrong Disc**

DTC	**62-42**	**Disc cannot be Read**

DTC	**63-41**	**Wrong Disc**

DTC	**63-42**	**Disc cannot be Read**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-41	An unsuitable disc is inserted.	• CD • Radio receiver
62-42	The disc cannot be read.	
63-41	An unsuitable disc is inserted.	
63-42	The disc cannot be read.	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

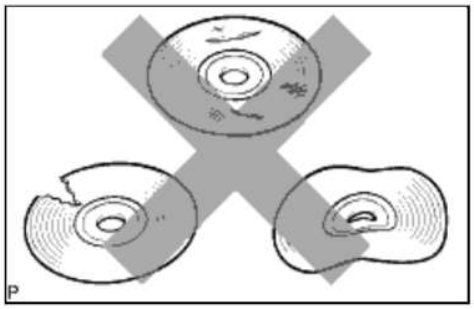
PROCEDURE

1.	**CHECK DISC**

(a) Check that the disc is not deformed or cracked.

OK:

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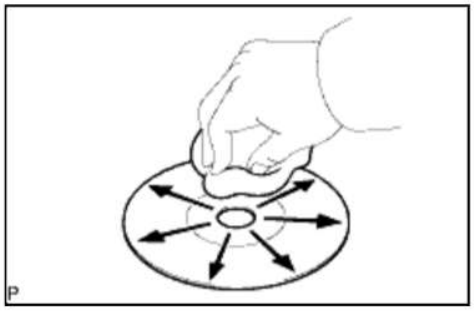


No deformation or cracks on the disc.

NG ▶ **CHANGE DISC**

OK
▼

2.	DISC CLEANING



(a) Disc cleaning

(1) If dirt is on the disc surface, wipe it clean with a soft cloth from the inside to the outside in a radial direction.

NOTICE:

Do not use a conventional record cleaner or anti-static preservative.

NEXT
▼

3.	CLEAR DTC

(a) Clear the DTCs INFO .

NEXT
▼

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4.	RECHECK FOR DTC

(a) Recheck for DTCs and check if the same trouble occurs again.

OK:
Malfunction disappears.

NG ▶ **REPLACE DISC AND RECHECK**

OK ▶ **END**

5.	REPLACE DISC AND RECHECK

(a) Replace the disc and recheck.

(1) Replace the disc with a known good one.

(2) Clear the DTCs [INFO].

(3) Recheck for DTCs and check if the same trouble occurs again.

OK:
Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020EZ01JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-43,63-43: CD-ROM Abnormal (2010 Corolla)		

DTC	**62-43**	**CD-ROM Abnormal**

DTC	**63-43**	**CD-ROM Abnormal**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-43	CD-ROM operation is abnormal	• CD • Radio receiver
63-43	CD-ROM operation is abnormal	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CHECK IF A PROPER CD IS INSERTED**

(a) Make sure that the CD is an audio CD or a CD with MP3 or WMA files, and that it is not deformed, flawed, stained, burred, or otherwise defective.

OK:

Normal CD

HINT:

- Translucent or uniquely-shaped CDs cannot be played.
- CDs with adhesive paper labels should not be played.
- Commercial audio CDs can be played.
- CD-DA files on CD-ROMs, CD-Rs, and CD-RWs can be played.
- MP3 and WMA files on CD-ROMs, CD-Rs, and CD-RWs can be played.
- For details on playable CDs, refer to the Owner's Manual.

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NG ▶ CHANGE DISC

OK ▼

2.	REPLACE CD AND RECHECK

(a) Replace the CD and recheck.

(1) Replace the CD with a known good one.

(2) Clear the DTCs [INFO].

(3) Recheck for DTCs and check if the same trouble occurs again.

OK:
Malfunction disappears.

NG ▶ REPLACE RADIO RECEIVER

OK ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020F001JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-44,62-48,62-50,63-44,63-48,63-50: CD Abnormal (2010 Corolla)		

DTC	**62-44**	**CD Abnormal**

DTC	**62-48**	**Excess Current**

DTC	**62-50**	**Tray Insertion / Ejection Error**

DTC	**63-44**	**CD Abnormal**

DTC	**63-48**	**Excess Current**

DTC	**63-50**	**Tray Insertion / Ejection Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-44	Operation error in the CD mechanism	Radio receiver
62-48	Excess current is present in the CD player	
62-50	Malfunction in insertion/ejection system	
63-44	Operation error in the CD mechanism	
63-48	Excess current is present in the CD changer	
63-50	Malfunction in insertion/ejection system	

INSPECTION PROCEDURE

HINT:

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After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTCs INFO.

NEXT

2.	**RECHECK FOR DTC**

(a) Recheck for DTCs and check if the same trouble occurs again.

HINT:

If DTCs are detected frequently, replace the radio receiver.

OK:
Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020F101JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-45,62-51,62-52,63-45,63-51,63-52: Eject Error (2010 Corolla)		

DTC	**62-45**	**Eject Error**

DTC	**62-51**	**Elevator Error**

DTC	**62-52**	**Clamp Error**

DTC	**63-45**	**Eject Error**

DTC	**63-51**	**Elevator Error**

DTC	**63-52**	**Clamp Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-45	Disc cannot be ejected.	Radio receiver
62-51	Mechanical error occurs during elevator operation.	
62-52	Error occurs in CD player clamp.	
63-45	Magazine cannot be ejected.	
63-51	Mechanical error occurs during elevator operation.	
63-52	Error occurs in CD changer clamp.	

INSPECTION PROCEDURE

HINT:

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After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CHECK RADIO RECEIVER**

(a) Check if a disc can be changed, inserted or ejected normally.

OK:

Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020F201JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-46,63-46: Scratched / Reversed Disc (2010 Corolla)		

DTC	**62-46**	**Scratched / Reversed Disc**

DTC	**63-46**	**Scratched / Reversed Disc**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-46	Scratches or dirt is found on CD surface or CD is set upside down.	• CD • Radio receiver
63-46	Scratches or dirt is found on CD surface or CD is set upside down.	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CHECK THAT CD IS INSERTED PROPERLY**

(a) Check whether or not the CD is inserted upside down.

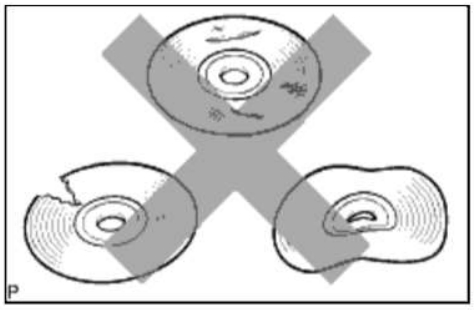
OK:
CD is properly inserted.

NG ▶ **REPLACE CD AND RECHECK**

OK ▼

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2.	CHECK DISC



(a) Check that the disc is not deformed or cracked.

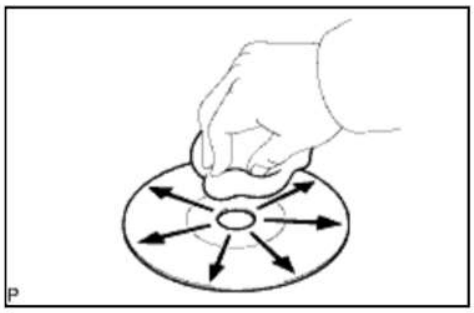
OK:

No deformation or cracks on the disc.

NG ▶ **CHANGE DISC**

OK
▼

3.	DISC CLEANING



(a) Disc cleaning

(1) If dirt is on the disc surface, wipe it clean with a soft cloth from the inside to the outside in a radial direction.

NOTICE:

Do not use a conventional record cleaner or anti-static preservative.

NEXT
▼

4.	CLEAR DTC

(a) Clear the DTCs INFO.

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NEXT

5.	**RECHECK FOR DTC**

(a) Recheck for DTCs and check if the same trouble occurs again.

OK:
Malfunction disappears.

NG ▶ **REPLACE CD AND RECHECK**

OK ▶ **END**

6.	**REPLACE CD AND RECHECK**

(a) Replace the disc and recheck.

(1) Replace the disc with a known good one.

(2) Clear the DTCs [INFO].

(3) Recheck for DTCs and check if the same trouble occurs again.

OK:
Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020F301JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-47,63-47: High Temperature (2010 Corolla)		

DTC	**62-47**	**High Temperature**

DTC	**63-47**	**High Temperature**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-47	Sensor detects that CD unit temperature is high. (Over 80°C (176°F))	Radio receiver
63-47	Sensor detects that CD unit temperature is high. (Over 80°C (176°F))	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CHECK RADIO RECEIVER**

(a) Park the vehicle in a cool place.

(b) Operate the radio receiver after it has sufficiently cooled down. Check that the malfunction disappears.

OK:

Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020FB019X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-78,63-78: DSP Error (2010 Corolla)		

DTC	**62-78**	**DSP Error**

DTC	**63-78**	**DSP Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-78	An error occurs during the decode process (MP3/WMA).	-
63-78	An error occurs during the decode process (MP3/WMA).	-

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

NOTICE:

- These codes may be output even if there is no malfunction.
- If these codes are output frequently, replace the radio receiver.

PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTCs INFO.

NEXT

2.	**RECHECK FOR DTC**

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(a) Recheck for DTCs and check if the same trouble occurs again.

OK:

Malfunction disappears.

NG ▶ REPLACE RADIO RECEIVER

OK ▶ END



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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000020S4019X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: 62-7D-62-7F,63-7D-63-7F: Disc cannot be Played (2010 Corolla)		

DTC	**62-7D**	**Disc cannot be Played**

DTC	**62-7E**	**No Playable Files**

DTC	**62-7F**	**Copyright Protection Error**

DTC	**63-7D**	**Disc cannot be Played**

DTC	**63-7E**	**No Playable Files**

DTC	**63-7F**	**Copyright Protection Error**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
62-7D	• An incompatible MP3/WMA file is used. • Although the file has an extension of ".mp3" or ".wma", the header information cannot be read.	• CD • Radio receiver
62-7E	• A disc with no music data is used. • Playable files are not on the disc (MP3/WMA).	
62-7F	A copy-protected file, which cannot be played, is used.	
63-7D	• An incompatible MP3/WMA file is used • Although the file has an extension of ".mp3" or ".wma", the	

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DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
	header information cannot be read.	
63-7E	• A disc with no music data is used. • Playable files are not on the disc (MP3/WMA).	
63-7F	A copy-protected file, which cannot be played, is used.	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CHANGE DISC**

(a) Insert a disc with a playable file and check if the disc can be played correctly.

HINT:

For details on playable files and discs, refer to the Owner's Manual.

OK:
The disc can be played correctly.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001YYR02LX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: C0-11-C0-16: Satellite Radio Tuner Internal Circuit Error 1 (2010 Corolla)		

DTC	**C0-11**	**Satellite Radio Tuner Internal Circuit Error 1**

DTC	**C0-12**	**Satellite Radio Tuner Internal Circuit Error 2**

DTC	**C0-13**	**Satellite Radio Tuner Internal Circuit Error 3**

DTC	**C0-14**	**Satellite Radio Tuner Internal Circuit Error 4**

DTC	**C0-15**	**Satellite Radio Tuner Internal Circuit Error 5**

DTC	**C0-16**	**Satellite Radio Tuner Internal Circuit Error 6**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
C0-11	Tuner PLL synchronization is impossible.	Radio receiver
C0-12	A communication error occurred in CDED.	
C0-13	A communication error occurred in SSDEC.	
C0-14	Received no response from SSDEC.	
C0-15	An error occurred in CAP internal NVM.	
C0-16	An error occurred in CAP.	

INSPECTION PROCEDURE

HINT:

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After the inspection is completed, clear the DTCs.

PROCEDURE

1.	REPLACE RADIO RECEIVER

HINT:

Removal INFO

NEXT ▶ END

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Last Modified: 3-10-2010	6.4 C	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM00000182T04KX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: C0-40,C0-41: Antenna not Connected (2010 Corolla)		

DTC	**C0-40**	**Antenna not Connected**

DTC	**C0-41**	**Antenna Shorted**

DESCRIPTION

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
C0-40	Antenna is not connected	• Antenna cord • Satellite radio antenna • Radio receiver
C0-41	Short in antenna circuit	

INSPECTION PROCEDURE

HINT:

After the inspection is completed, clear the DTCs.

PROCEDURE

1.	**CHECK CONNECTOR CONNECTION CONDITION**

(a) Check that the satellite radio antenna cord is securely connected to the radio receiver connector.

OK:

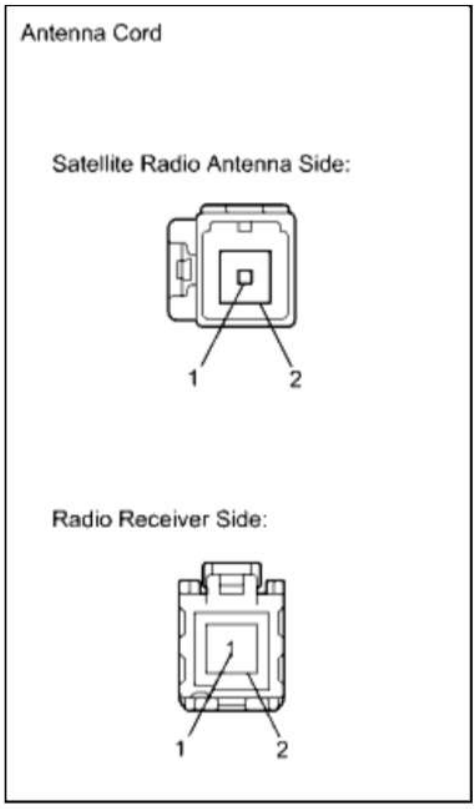
The cord is securely connected.

NG ▶ **RECONNECT CONNECTOR CORRECTLY**

OK ▼

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2.	CHECK ANTENNA CORD



(a) Disconnect the satellite radio antenna connector and the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 1	Always	Below 1 Ω
2 - 2	Always	Below 1 Ω
1 - Body ground	Always	10 kΩ or higher
2 - Body ground	Always	10 kΩ or higher

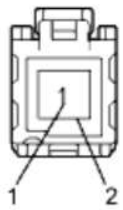
NG ▶ **REPAIR OR REPLACE ANTENNA CORD**

OK ▼

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3.	INSPECT SATELLITE RADIO ANTENNA

Component without harness connected:
(Satellite Radio Antenna)



(a) Disconnect the satellite radio antenna connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	Always	27.5 to 47.5 Ω

NG ▶ **REPLACE SATELLITE RADIO ANTENNA**

OK ▼

4.	REPLACE RADIO RECEIVER

(a) Replace the radio receiver with a known good one and check if the same problem occurs again.

(1) Clear the DTCs [INFO].

(2) Recheck for DTCs and check if the same trouble occurs again.

OK:

Same problem does not occur.

NG ▶ **REPLACE SATELLITE RADIO ANTENNA**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003UTY005X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Satellite Radio Broadcast cannot be Received (2010 Corolla)		

Satellite Radio Broadcast cannot be Received

INSPECTION PROCEDURE

NOTICE:

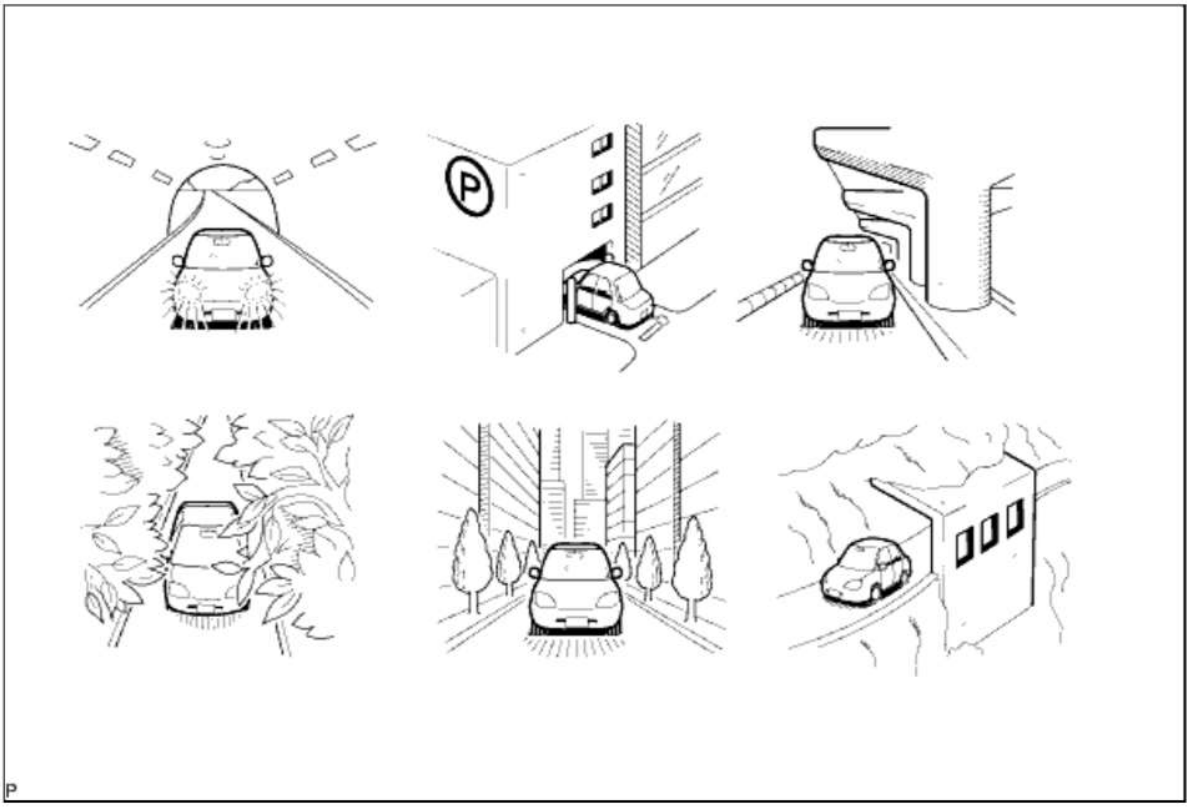
- Some satellite radio broadcast require payment. A contract must be made between a satellite radio company and the user. If the contract expires, the broadcast will not be able to be listened to or viewed.
- After replacing the radio receiver assembly of vehicles subscribed to pay-type satellite radio broadcasts, the XM Radio ID registration is necessary.

PROCEDURE

1.	**CHECK SURROUNDINGS**

(a) Check if the vehicle is in an environment where reception is difficult due to something blocking the area above the vehicle.

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HINT:

If the area above the vehicle is blocked, such as when in a building or tunnel, reception may not be possible.

OK:
Area above the vehicle is not blocked.

NG ▶ **END (MOVE VEHICLE TO LOCATION WHERE RECEPTION IS BETTER)**

OK ▼

2.	**CHECK RADIO RECEIVER**

(a) Check if CH001 (free broadcast) can be received.

OK:
CH001 can be received.

NG ▶ **CHECK DISPLAY**

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OK

3.	CHECK DISPLAY SETTING

(a) Check the display screen.

Result:

RESULT	PROCEED TO
"UPDATING" is displayed	A
"-----" is displayed	B
None of the displays above are shown	C

C ▶ **CHECK DISPLAY**

B ▶ **THERE IS NO SONG/PROGRAM TITLE OR ARTIST NAME/FEATURE ASSOCIATED WITH CHANNEL AT THAT TIME**

A

4.	CHECK CONTRACT CONDITIONS

(a) Check if the pay-type contract has been extended, or if the contract period has ended.

OK:

Pay-type contract is valid.

NG ▶ **TO RECEIVE PAY-TYPE BROADCASTS, CONTRACT MUST BE MADE WITH SATELLITE RADIO TUNER COMPANY**

OK

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5.	PERFORM ACTIVATION REFRESH

(a) Perform activation refresh by referring to the satellite radio service web site (http://www.xmradio.com/refresh/).

HINT:

The XM radio ID that is necessary to perform activation refresh can be displayed when CH000 is selected on the satellite radio.

OK:
Malfunction disappears.

NG ▶ **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

OK ▶ **END**

6.	CHECK DISPLAY

(a) Check the display screen.

Result:

RESULT	PROCEED TO
"ANTENNA" is displayed	A
"NO SIGNAL" is displayed	B
"LOADING" is displayed	B
"OFF AIR" is displayed	C
After "---" is displayed, display automatically switches to CH001	D
None of the displays above are shown	E

E ▶ **CONFIRM CURRENTLY SELECTED CHANNEL**

D ▶ **CHANNEL BROADCAST HAS ENDED CONDITION (CONFIRM WITH RADIO STATION)**

C ▶ **CHANNEL IS CURRENTLY NOT BEING BROADCAST. BROADCAST CAN BE LISTENED TO OR VIEWED WHEN IT IS BACK ON AIR CONDITION (CONFIRM WITH RADIO STATION)**

B ▶ **END (MOVE VEHICLE TO LOCATION WHERE**

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RECEPTION IS BETTER)

A

7.	**CHECK CONNECTION OF ANTENNA CABLE**

(a) Check if the satellite radio antenna cable is securely connected to the satellite radio tuner.

OK:

Satellite radio antenna cable is securely connected.

NG ▶ **SECURELY CONNECT SATELLITE RADIO ANTENNA CABLE**

OK ▶ **REPLACE SATELLITE RADIO ANTENNA**

8.	**CONFIRM CURRENTLY SELECTED CHANNEL**

(a) Confirm if CH000 is currently selected.

OK:

CH000 is selected.

NG ▶ **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

OK ▶ **END (CH000 HAS NO SOUND. SELECT ANOTHER CHANNEL)**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000003UTZ005X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Satellite Radio Broadcast cannot be Selected or After Selecting Broadcast, Broadcast cannot be Added into Memory (2010 Corolla)		

Satellite Radio Broadcast cannot be Selected or After Selecting Broadcast, Broadcast cannot be Added into Memory

INSPECTION PROCEDURE

NOTICE:

- Some satellite radio broadcast require payment. A contract must be made between a satellite radio company and the user. If the contract expires, the broadcast will not be able to be listened to or viewed.
- After replacing the radio receiver assembly of vehicles subscribed to pay-type satellite radio broadcasts, the XM Radio ID registration is necessary.

PROCEDURE

1.	**CHECK RADIO RECEIVER**

(a) Check radio condition.

Result:

RESULT	PROCEED TO
Broadcast cannot be selected	A
Broadcast can be selected, but selection can not be memorized	B

B ▶ **CHECK RADIO RECEIVER**

A ▶ **REPLACE RADIO RECEIVER**

2.	**CHECK RADIO RECEIVER**

(a) Check the number of preset channels.

OK:

18 channels have already been preset.

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NG ▶ CHECK BATTERY

OK ▶ END (ONLY 18 CHANNELS CAN BE PRESET)

3.	CHECK BATTERY

(a) Check if the battery was replaced.

OK:

Battery was not replaced.

NG ▶ ADD PRESET CHANNEL INTO MEMORY AGAIN

OK ▶ REPLACE RADIO RECEIVER

4.	ADD PRESET CHANNEL INTO MEMORY AGAIN

(a) Check if the preset channels that have been cleared can be added into memory again.

OK:

Preset channels can be added into memory.

NG ▶ PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

OK ▶ END

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NL505OX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Noise Occurs (2010 Corolla)		

Noise Occurs

INSPECTION PROCEDURE

PROCEDURE

1.	**NOISE CONDITION**

(a) Check from which direction the noise comes (front left or right, rear left or right).

(1) Check from which direction the noise comes.

OK:

The location of the noise source can be determined.

NG ▶ **CHECK NOISE CONDITIONS**

OK ▼

2.	**CHECK SPEAKERS**

(a) Check the installation conditions of the speaker units that are located near the noise source and that there are no cracks, scratches, deformation, or other malfunctions.

Result:

CONDITION	PROCEED TO
A speaker is installed incorrectly	A
Foreign objects are in the speaker	B
A speaker cone paper is broken	C
No malfunction is found	D

C ▶ **REPLACE SPEAKER**

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B ▶ **REMOVE FOREIGN OBJECT**

A ▶ **REINSTALL SPEAKER**

D ▼

3.	**CHECK NOISE CONDITIONS**

(a) Check the noise condition.

HINT:

The radio has a noise prevention function to reduce noise when listening to the radio. If a loud noise occurs, check whether the ground at the antenna mounting base and the noise prevention unit are installed and wired correctly.

CONDITION UNDER WHICH NOISE OCCURS	NOISE SOURCE
Noise increases when the accelerator pedal is depressed, but stops when the engine is stopped.	Generator
Noise occurs during A/C or heater operation.	Blower motor
Noise occurs when the horn switch is pressed and released or when pressed and held.	Horn
Noise occurs synchronously with the blink of the turn signal.	Flasher
Noise occurs during window washer operation.	Washer
Noise occurs during wiper operation.	Wiper
Noise occurs when the brake pedal is depressed.	Stop light switch
Others	Static electricity

HINT:

- In the chart's left column, find the situation that matches the customer's complaint. Then, in the right column, find the part that is causing the noise. Check the respective noise filter.
- To save time and avoid a misdiagnosis, first make sure that the noise is not coming from outside the vehicle.
- Troubleshoot noises in descending order of loudness.
- Setting the radio to a frequency where no signal is received may make recognition of the noise problem easier.

OK:

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The noise source cannot be determined.

NG ▶ REPAIR OR REPLACE NOISE SOURCE

OK ▶ PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE



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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NL803JX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Pressing Power Switch does not Turn on System (2010 Corolla)		

Pressing Power Switch does not Turn on System

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK VEHICLE CONDITION**

(a) Check that conditions in the cabin are not likely to cause condensation.

HINT:

This problem occurs if the cabin is humid and the temperature changes rapidly. This may produce condensation, resulting in a short circuit.

OK:
Condensation is not likely being produced.

NG ▶ **DRY OUT CABIN AND RECHECK CONDITION**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NLC03KX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: No Sound can be Heard from Speakers (2010 Corolla)		

No Sound can be Heard from Speakers

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK RADIO RECEIVER**

(a) Check radio receiver setting.

(1) Check that the volume is not set to "0".

(2) Check that "MUTE" is off.

OK:

The volume is not set to "0" and "MUTE" is off.

NG ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CB03IX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Sound Quality is Bad Only when CD is Played (Volume is Too Low) (2010 Corolla)		

Sound Quality is Bad Only when CD is Played (Volume is Too Low)

INSPECTION PROCEDURE

PROCEDURE

1.	**REPLACE CD AND RECHECK**

(a) Replace the CD with a known good one and recheck.

(1) Check if the same trouble occurs again.

OK:
Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NL703XX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: CD cannot be Ejected (2010 Corolla)		

CD cannot be Ejected

INSPECTION PROCEDURE

PROCEDURE

1.	**PRESS "EJECT" AND CHECK OPERATION**

(a) Press the CD EJECT switch of the radio receiver for 2 seconds or more and check that the CD is ejected.

OK:

CD is ejected.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▼

2.	**REPLACE CD AND RECHECK**

(a) Replace the CD with a known good one and recheck.

OK:

CD is ejected.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NL603UX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: CD cannot be Inserted / Played or CD is Ejected Right After Insertion (2010 Corolla)		

CD cannot be Inserted / Played or CD is Ejected Right After Insertion

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK IF A PROPER CD IS INSERTED**

(a) Make sure that the CD is an audio CD or a CD with an MP3 or WMA file, and that it is not deformed, flawed, stained, burred, or otherwise defective.

OK:
Normal CD.

HINT:

- Translucent or uniquely-shaped CDs cannot be played.
- CDs with adhesive paper labels should not be played.
- Commercial audio CDs can be played.
- CD-DA files on CD-ROMs, CD-Rs, and CD-RWs can be played.
- MP3 and WMA files on CD-ROMs, CD-Rs, and CD-RWs can be played.
- For details on playable CDs, refer to the Owner's Manual.

NG ▶ **CHANGE DISC**

OK ▼

2.	**CHECK THAT CD IS INSERTED PROPERLY**

(a) Check whether or not the CD is inserted upside down.

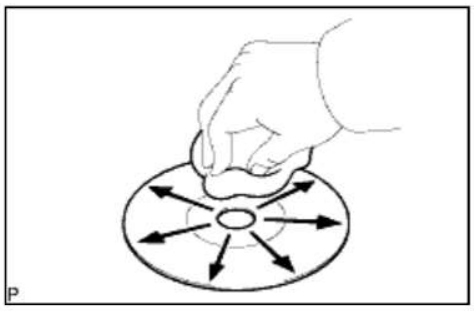
OK:
CD is properly inserted.

NG ▶ **INSERT CD PROPERLY**

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OK

3.	**CHECK CD**



(a) Clean the disc by wiping it with a soft cloth from the inside to the outside in a radial direction.

OK:

Malfunction disappears.

NOTICE:

Do not use a conventional record cleaner or anti-static preservative.

NG ▶ **REPLACE CD AND RECHECK**

OK ▶ **END**

4.	**REPLACE CD AND RECHECK**

(a) Replace the CD with a known good one and check that the malfunction disappears.

OK:

Malfunction disappears.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CN04MX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Radio Broadcast cannot be Received or Poor Reception (2010 Corolla)		

Radio Broadcast cannot be Received or Poor Reception

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK RADIO RECEIVER**

(a) Check the radio's automatic station search function.

(1) Check the radio's automatic station search function by activating it.

OK:

The radio's automatic station search function works properly.

NG ▶ **CHECK OPTIONAL COMPONENTS**

OK ▶ **REPLACE RADIO RECEIVER**

2.	**CHECK OPTIONAL COMPONENTS**

(a) Check optional components (sun-shade film, telephone antenna, etc.).

(1) Check if any optional components that may decrease reception capacity, such as sunshade film or a telephone antenna, are installed.

OK:

Optional components are installed.

NOTICE:

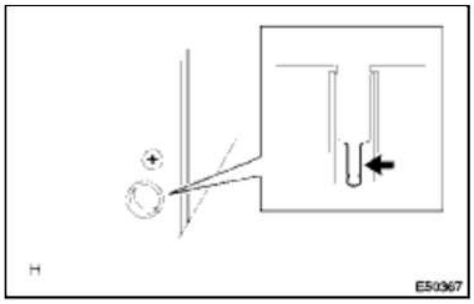
Do not remove any optional components installed by the customer without his or her consent.

NG ▶ **CHECK RADIO RECEIVER**

OK ▶ **REMOVE OPTIONAL COMPONENTS AND CHECK AGAIN (SEE NOTICE ABOVE)**

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3.	CHECK RADIO RECEIVER



(a) Preparation for check

(1) Remove the antenna plug from the radio receiver.

(b) Check for noise

(1) Turn the ignition switch to ACC with the radio receiver connector connected.

(2) Turn the radio on and tune into AM mode.

(3) Place a screwdriver, thin wire, or other metal object on the radio receiver's antenna jack and check that noise can be heard from the speaker.

OK:

Noise can be heard from the speaker.

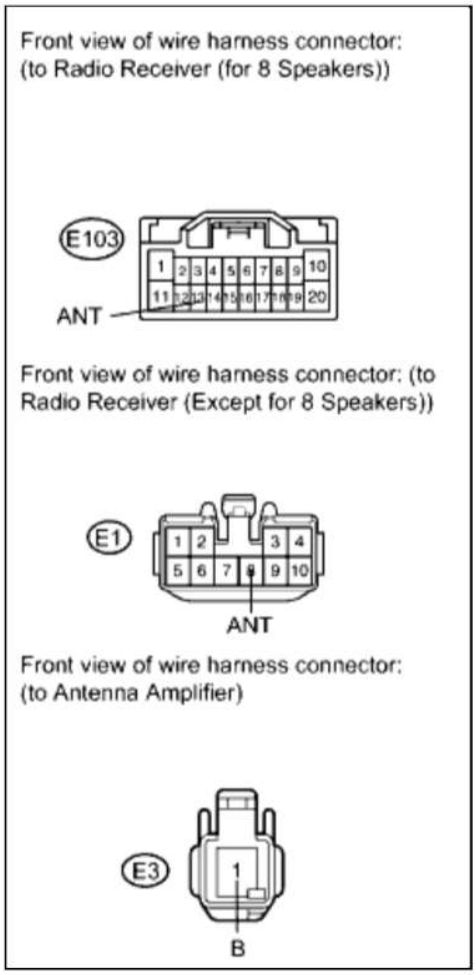
NG ▶ **REPLACE RADIO RECEIVER**

OK ▼

4.	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - ANTENNA AMPLIFIER)

(a) Disconnect the radio receiver connector and the antenna amplifier connector.

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(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-13 (ANT) - E3-1 (B)*1	Always	Below 1 Ω
E1-8 (ANT) - E3-1 (B)*2	Always	Below 1 Ω
E103-13 (ANT) - Body ground*1	Always	10 kΩ or higher
E1-8 (ANT) - Body ground*2	Always	10 kΩ or higher

- *1: for 8 Speakers
- *2: Except for 8 Speakers

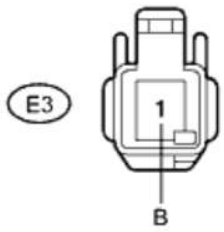
NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

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5.	INSPECT RADIO RECEIVER

Front view of wire harness connector:
(to Antenna Amplifier)



(a) Reconnect the radio receiver connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E3-1 (B) - Body ground	Ignition switch ON Radio switch ON	11 to 14 V

NG ▶ **REPLACE RADIO RECEIVER**

OK ▼

6.	CHECK ANTENNA CORD

(a) Remove the antenna plug of the radio receiver and antenna.

(b) Measure the resistance between the antenna and radio receiver to check for an open circuit in the antenna cord.

Standard resistance:
Below 1 Ω

(c) Measure the resistance between the antenna cord and body ground to check for a short circuit in the antenna cord.

Standard resistance:

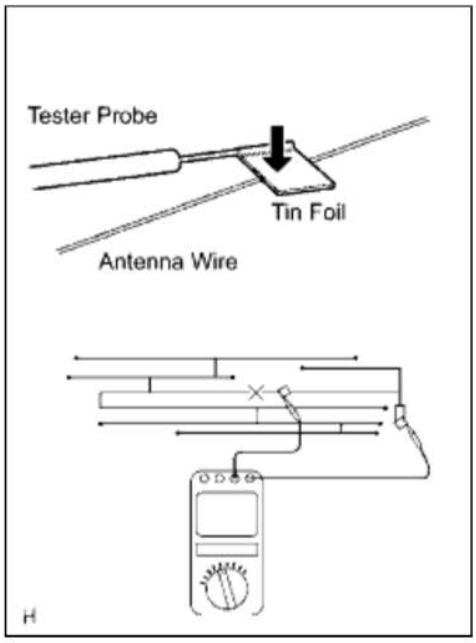
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10 kΩ or higher

NG ▶ **REPLACE ANTENNA CORD**

OK ▼

7.	CHECK GLASS ANTENNA



(a) Check for continuity of the antenna.

HINT:

Check for continuity at the center of each antenna wire as shown in the illustration.

NOTICE:

When cleaning the glass, wipe it in the direction of the wire with a soft dry cloth. Take care not to damage the wire. Do not use detergents or glass cleaners with abrasive ingredients. When measuring resistance, wrap a piece of tin foil around the tip of the negative probe and press the foil against the wire with your finger, as shown in the illustration.

OK:

There is continuity in the antenna.

NG ▶ **REPAIR GLASS ANTENNA**

OK ▼

8.	REPLACE AMPLIFIER ANTENNA

(a) Replace the amplifier antenna and check if radio broadcasts can be received normally.

OK:

Radio broadcasts can be received.

NG ▶ **REPLACE RADIO RECEIVER**

NORMAL OPERATION

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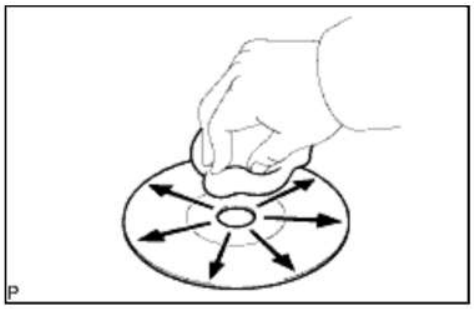
Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000NLH03XX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: CD Sound Skips (2010 Corolla)		

CD Sound Skips

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK CD**



(a) Check the CD.

OK:

The CD is clean.

HINT:

If dirt is on the CD surface, wipe it clean with a soft cloth from the inside to the outside in a radial direction.

NOTICE:

Do not use a conventional record cleaner or anti-static preservative.

NG ▶ **CLEAN CD**

OK ▼

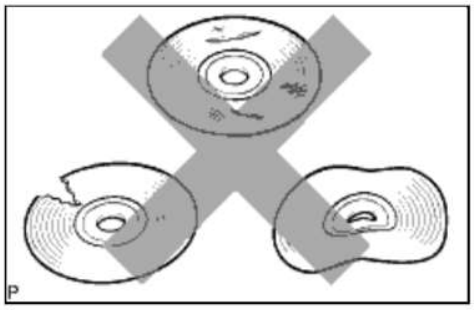
2.	**CHECK CD**

(a) Check that the CD is not deformed or cracked.

OK:

No deformation or cracks on the CD.

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NG ▶ CHANGE DISC

OK ▼

3.	CHECK OPERATION

(a) Check if the problem recurs using a known good CD.

OK:
The problem does not occur.

NG ▶ CHECK RADIO RECEIVER

OK ▶ END

4.	CHECK RADIO RECEIVER

(a) Check the radio receiver installation condition.

(1) Check that the radio receiver is properly installed.

OK:
Radio receiver is properly installed.

NG ▶ REINSTALL RADIO RECEIVER PROPERLY

OK ▶ REPLACE RADIO RECEIVER

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CQ03DX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Poor Sound Quality in All Modes (Low Volume) (2010 Corolla)		

Poor Sound Quality in All Modes (Low Volume)

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK AUDIO SETTINGS**

(a) Set "BASS", "MID", and "TREB" to the initial values and check that sound is normal.

OK:

Malfunction disappears.

NG ▶ **COMPARE WITH ANOTHER VEHICLE OF SAME MODEL**

OK ▶ **END**

2.	**COMPARE WITH ANOTHER VEHICLE OF SAME MODEL**

(a) Compare with another vehicle of the same model.

(1) Compare with another vehicle of the same model which does not have trouble to see if there is any difference in the sound quality.

OK:

No difference is found.

NG ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK ▶ **END**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000011FD03RX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Cellular Phone Registration Failure, Phone Directory Transfer Failure (2010 Corolla)		

Cellular Phone Registration Failure, Phone Directory Transfer Failure

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK CURRENT CONDITIONS**

(a) Proceed to the next step according to the table below.

Result:

RESULT	PROCEED TO
Another "Bluetooth" compatible cellular phone is present.	A
Another "Bluetooth" compatible vehicle is present.	B
None of the above	C

C ▶ **CHECK CELLULAR PHONE**

B ▶ **CHECK USING ANOTHER "BLUETOOTH" COMPATIBLE VEHICLE**

A ▼

2.	**CHECK USING ANOTHER CELLULAR PHONE**

(a) Check if the system functions using another "Bluetooth" compatible cellular phone.

HINT:

- Confirm that either the same or a different version of another "Bluetooth" compatible cellular

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phone complies with the system.

- Depending on the version, some "Bluetooth" compatible cellular phones cannot be used.

OK:

The system functions.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **USE A "BLUETOOTH" COMPATIBLE CELLULAR PHONE**

3.	CHECK USING ANOTHER "BLUETOOTH" COMPATIBLE VEHICLE

(a) Register the cellular phone with another vehicle and check if the system functions normally.

HINT:

Depending on the version, some "Bluetooth" compatible cellular phones cannot be used.

OK:

The system functions.

NG ▶ **USE A "BLUETOOTH" COMPATIBLE CELLULAR PHONE**

OK ▶ **REPLACE RADIO RECEIVER**

4.	CHECK CELLULAR PHONE

(a) Check if the cellular phone is "Bluetooth" compatible.

HINT:

Some versions of "Bluetooth" compatible cellular phones may not function.

OK:

The phone is "Bluetooth" compatible.

NG ▶ **USE A "BLUETOOTH" COMPATIBLE CELLULAR PHONE**

OK ▼

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5.	**CHECK CELLULAR PHONE**

(a) Check if the cellular phone can make a call.

HINT:

When the battery is low, registration or directory transfer cannot be done.

OK:
Cellular phone can make a call.

NG ▶ **REPAIR OR REPLACE CELLULAR PHONE**

OK ▶ **REPLACE RADIO RECEIVER**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000000POK03WX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Cellular Phone cannot Send/Receive (2010 Corolla)		

Cellular Phone cannot Send/Receive

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK "BLUETOOTH" SETTINGS**

(a) Check if the "Bluetooth" settings are correct.

OK:

"Bluetooth" settings are correct.

NG ▶ **SET SETTINGS CORRECTLY**

OK ▼

2.	**CHECK CELLULAR PHONE**

(a) Check if the cellular phone is "Bluetooth" compatible.

HINT:

Some versions of "Bluetooth" compatible cellular phones may not function.

OK:

Phone is "Bluetooth" compatible.

NG ▶ **END (ONLY A "BLUETOOTH" COMPATIBLE CELLULAR PHONE CAN BE USED)**

OK ▼

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3.	CHECK SETTINGS

(a) Check if the cellular phone functions.

HINT:

The cellular phone is unable to call under any of the following conditions.

- The cellular phone is locked.
- The directory is being transferred.
- The line is crossed.
- Outside service range.
- The power is off.
- The cellular phone is not connected to "Bluetooth" ("BT" is displayed while connected).

OK:

None of the above conditions exist.

NG ▶ SET CORRECTLY

OK ▼

4.	CHECK CELLULAR PHONE

(a) Check if the cellular phone can make a call.

HINT:

When the battery is low, calls cannot be made or received.

OK:

Cellular phone can make a call.

NG ▶ REPAIR OR REPLACE CELLULAR PHONE

OK ▼

5.	CHECK RECEPTION

(a) Set the cellular phone so that it can receive calls.

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(b) Place the cellular phone close to the radio receiver.

(c) Check if the cellular phone has reception according to the radio receiver.

OK:
Cellular phone has reception.

NG ▶ **REPLACE RADIO RECEIVER**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000014SU065X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: The Other Caller's Voice cannot be Heard, is too Quiet, or Distorted (2010 Corolla)		

The Other Caller's Voice cannot be Heard, is too Quiet, or Distorted

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK CELLULAR PHONE**

(a) Check if the voice on the other side can be heard using a cellular phone.

OK:

Voice can be heard.

NG ▶ **REPAIR OR REPLACE CELLULAR PHONE**

OK ▼

2.	**CHECK AUDIO AND VISUAL SYSTEM**

(a) Check that sound from the audio system can be heard from the driver side speaker.

OK:

Sound from the audio system can be heard.

HINT:

If sound from the audio system cannot be heard, proceed to "No sound can be heard from speakers. (Audio is mute.)" in Problem Symptoms Table INFO .

NG ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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OK

3.	**CHECK SETTINGS**

(a) Check that the received voice level setting on the cellular phone is not too low.

OK:

The received voice level setting is not too low.

NG ▶ **SET VOLUME TO HIGH**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CL03YX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Speaker Circuit (2010 Corolla)		

Speaker Circuit

DESCRIPTION

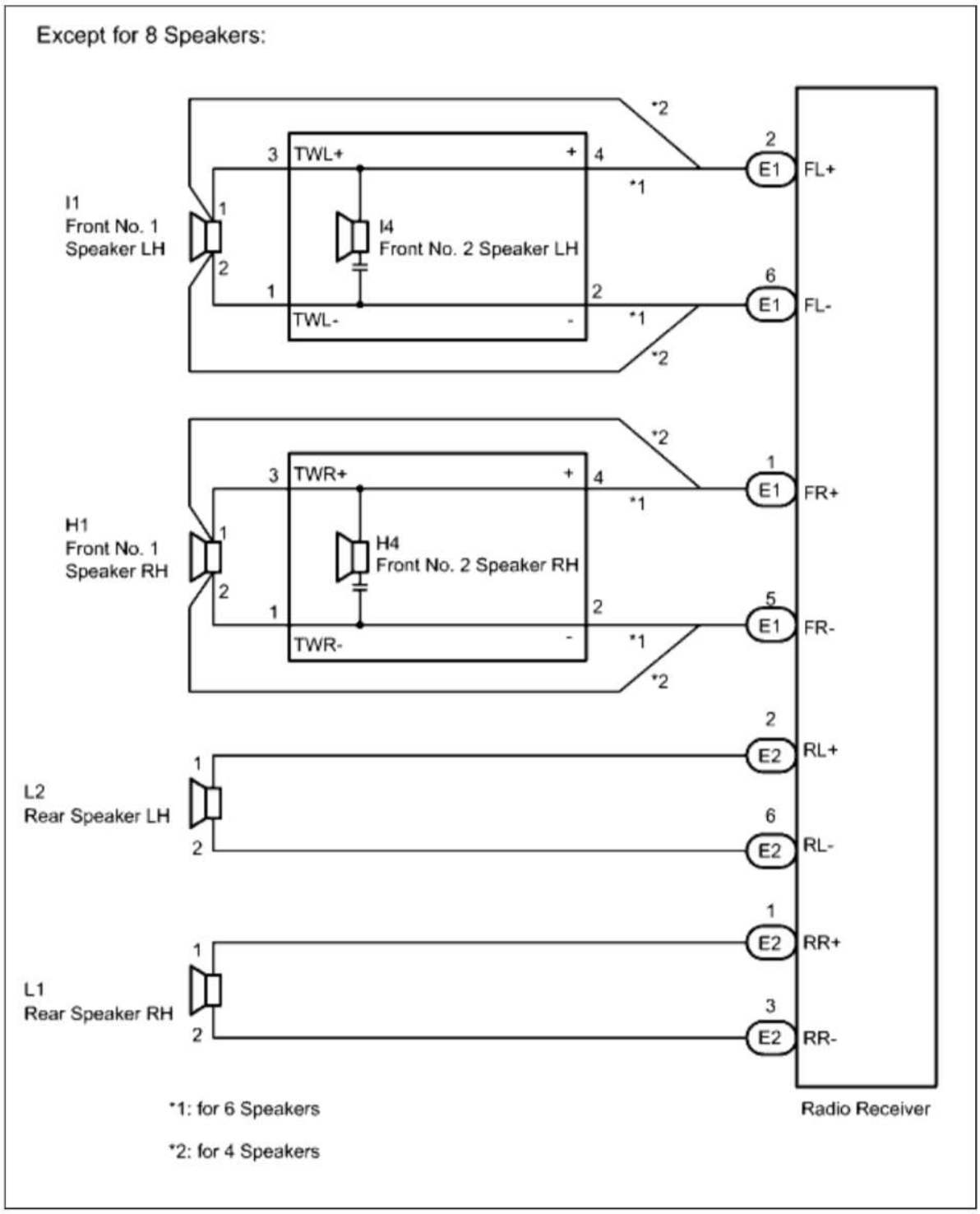
- If the vehicle has a built-in type amplifier, a sound signal is sent from the radio receiver to the speakers via the "Except for 8 Speakers" circuit.
- If the vehicle has a separate type amplifier, a sound signal from the radio receiver is amplified by the stereo component amplifier and then transmitted to the speaker via the "for 8 Speakers" circuit.

If there is a short in this circuit, the stereo component amplifier detects it and stops output to the speakers.

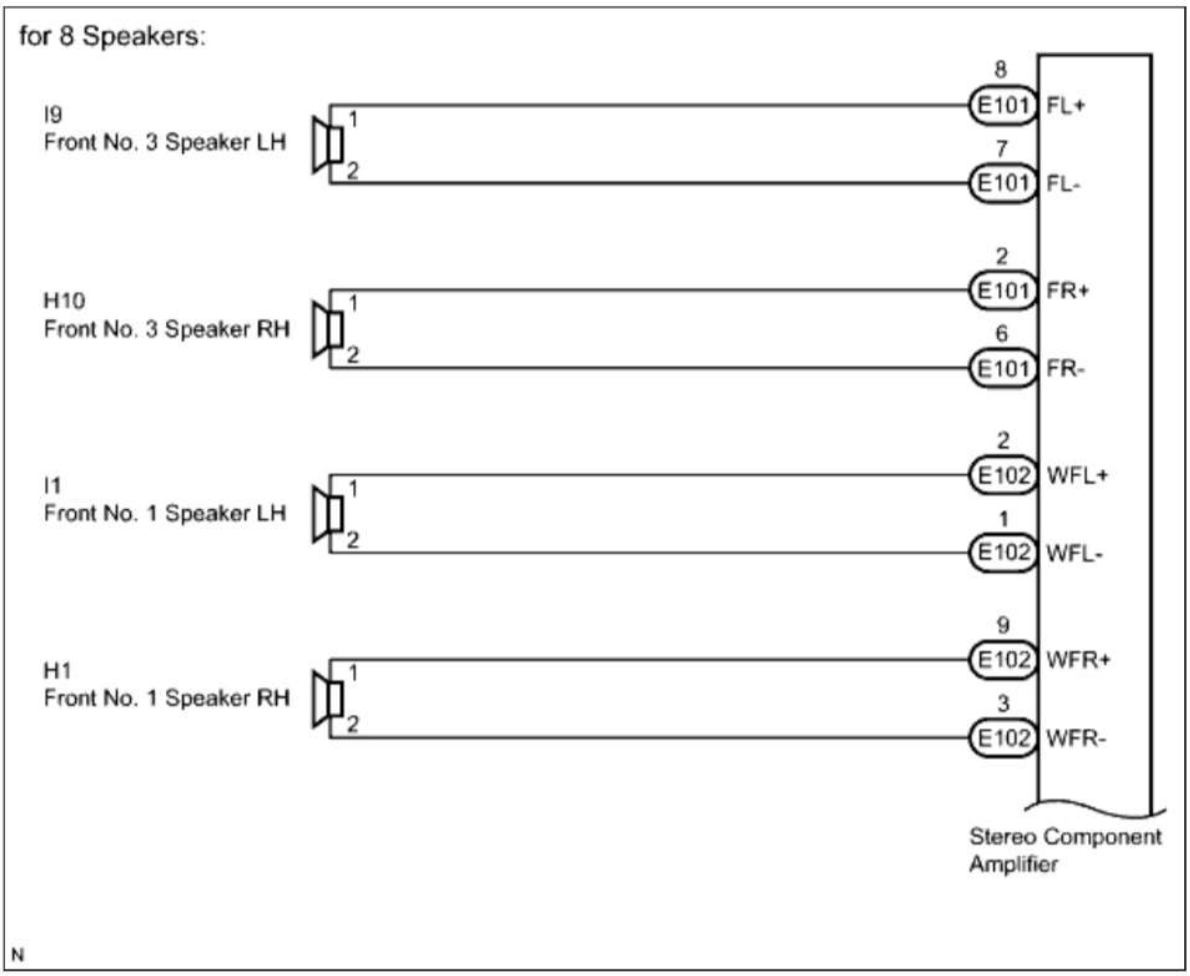
Thus sound cannot be heard from the speakers even if there is no malfunction in the stereo component amplifier or speakers.

WIRING DIAGRAM

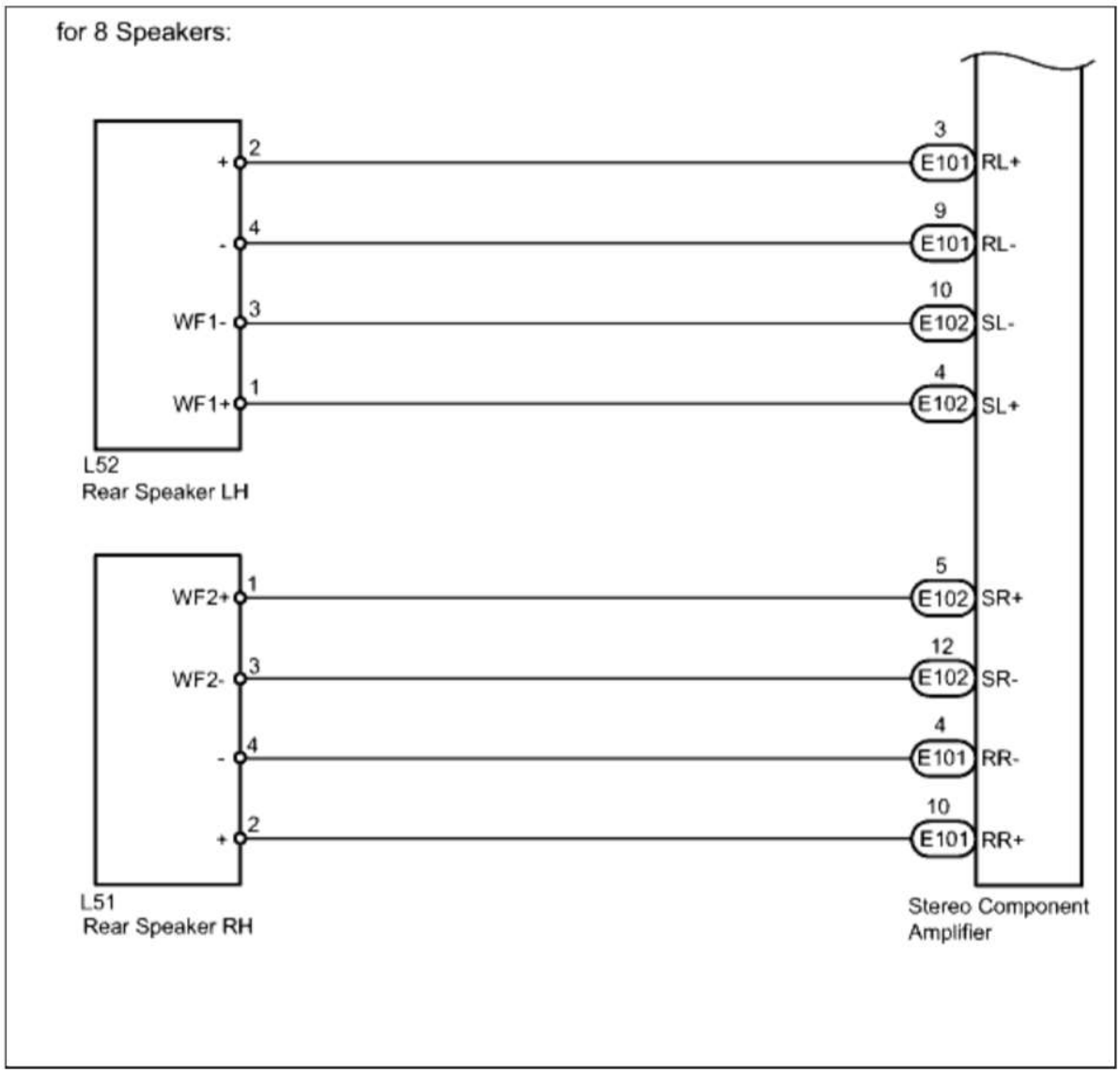
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INSPECTION PROCEDURE

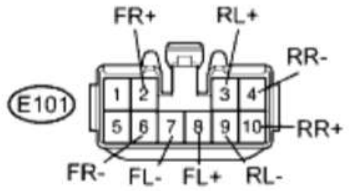
PROCEDURE

1.	**CHECK HARNESS AND CONNECTOR**

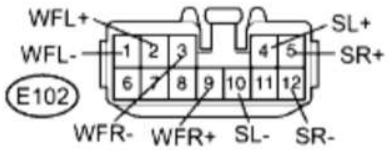
(a) Disconnect the connectors shown in the illustration from the stereo component amplifier or radio receiver and speakers.

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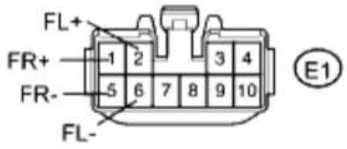
Front view of wire harness connector:
(to Stereo Component Amplifier)



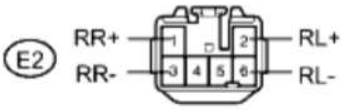
Front view of wire harness connector:
(to Stereo Component Amplifier)



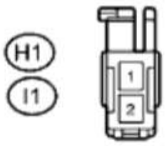
Front view of wire harness connector:
(to Radio Receiver)



Front view of wire harness connector:
(to Radio Receiver)



Front view of wire harness connector:
(to Front No. 1 Speaker)



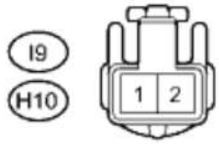
(b) for 8 Speakers:

Measure the resistance between each of the front No. 3 speakers and the stereo component amplifier to check for an open circuit in the wire harness.

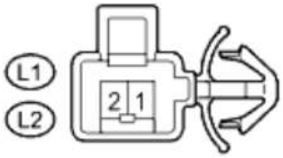
Standard Resistance:

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Front view of wire harness connector: (to Front No. 3 Speaker (for 8 Speakers))



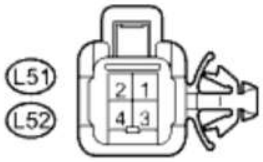
Front view of wire harness connector: (to Rear Speaker (Except for 8 Speakers))



Front view of wire harness connector: (to Front No. 2 Speaker (for 6 Speakers))



Front view of wire harness connector: (to Rear Speaker (for 8 Speakers))



H

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E101-8 (FL+) - I9-1	Always	Below 1 Ω
E101-7 (FL-) - I9-2	Always	Below 1 Ω
E101-2 (FR+) - H10-1	Always	Below 1 Ω
E101-6 (FR-) - H10-2	Always	Below 1 Ω

(c) for 6 Speakers:

Measure the resistance between each of the front No. 2 speakers and the radio receiver to check for an open circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E1-2 (FL+) - I4-4 (+)	Always	Below 1 Ω
E1-6 (FL-) - I4-2 (-)	Always	Below 1 Ω
E1-1 (FR+) - H4-4 (+)	Always	Below 1 Ω

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E1-5 (FR-) - H4-2 (-)	Always	Below 1 Ω

(d) for 8 Speakers:

Measure the resistance between each of the front No. 1 speakers and the stereo component amplifier to check for an open circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E102-2 (WFL+) - I1-1	Always	Below 1 Ω
E102-1 (WFL-) - I1-2	Always	Below 1 Ω
E102-9 (WFR+) - H1-1	Always	Below 1 Ω
E102-3 (WFR-) - H1-2	Always	Below 1 Ω

(e) for 4 Speakers:

Measure the resistance between each of the front No. 1 speakers and the radio receiver to check for an open circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E1-2 (FL+) - I1-1	Always	Below 1 Ω
E1-6 (FL-) - I1-2	Always	Below 1 Ω
E1-1 (FR+) - H1-1	Always	Below 1 Ω
E1-5 (FR-) - H1-2	Always	Below 1 Ω

(f) for 8 Speakers:

Measure the resistance between each of the rear speakers and the stereo component amplifier to check for an open circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E101-3 (RL+) - L52-2 (+)	Always	Below 1 Ω
E101-9 (RL-) - L52-4 (-)	Always	Below 1 Ω
E101-10 (RR+) - L51-2 (+)	Always	Below 1 Ω
E101-4 (RR-) - L51-4 (-)	Always	Below 1 Ω
E102-10 (SL-) - L52-3 (WF1-)	Always	Below 1 Ω

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E102-4 (SL+) - L52-1 (WF1+)	Always	Below 1 Ω
E102-5 (SR+) - L51-1 (WF2+)	Always	Below 1 Ω
E102-12 (SR-) - L51-3 (WF2-)	Always	Below 1 Ω

(g) Except for 8 Speakers:

Measure the resistance between each of the rear speakers and the radio receiver to check for an open circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E2-2 (RL+) - L2-1	Always	Below 1 Ω
E2-6 (RL-) - L2-2	Always	Below 1 Ω
E2-1 (RR+) - L1-1	Always	Below 1 Ω
E2-3 (RR-) - L1-2	Always	Below 1 Ω

(h) for 6 Speakers:

Measure the resistance between each of the front No. 1 speaker and front No. 2 speaker to check for an open circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
I4-3 (TWL+) - I1-1	Always	Below 1 Ω
I4-1 (TWL-) - I1-2	Always	Below 1 Ω
H4-3 (TWR+) - H1-1	Always	Below 1 Ω
H4-1 (TWR-) - H1-2	Always	Below 1 Ω

(i) for 8 Speakers:

Measure the resistance between the stereo component amplifier and body ground to check for a short circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E101-8 (FL+) - Body ground	Always	10 kΩ or higher
E101-7 (FL-) - Body ground	Always	10 kΩ or higher
E101-2 (FR+) - Body ground	Always	10 kΩ or higher

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E101-6 (FR-) - Body ground	Always	10 kΩ or higher
E101-3 (RL+) - Body ground	Always	10 kΩ or higher
E101-9 (RL-) - Body ground	Always	10 kΩ or higher
E101-10 (RR+) - Body ground	Always	10 kΩ or higher
E101-4 (RR-) - Body ground	Always	10 kΩ or higher
E102-2 (WFL+) - Body ground	Always	10 kΩ or higher
E102-1 (WFL-) - Body ground	Always	10 kΩ or higher
E102-9 (WFR+) - Body ground	Always	10 kΩ or higher
E102-3 (WFR-) - Body ground	Always	10 kΩ or higher
E102-5 (SR+) - Body ground	Always	10 kΩ or higher
E102-12 (SR-) - Body ground	Always	10 kΩ or higher
E102-4 (SL+) - Body ground	Always	10 kΩ or higher
E102-10 (SL-) - Body ground	Always	10 kΩ or higher

(j) Except for 8 Speakers:

Measure the resistance between each speaker or radio receiver and body ground to check for a short circuit in the wire harness.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E1-2 (FL+) - Body ground	Always	10 kΩ or higher
E1-6 (FL-) - Body ground	Always	10 kΩ or higher
E1-1 (FR+) - Body ground	Always	10 kΩ or higher
E1-5 (FR-) - Body ground	Always	10 kΩ or higher
E2-2 (RL+) - Body ground	Always	10 kΩ or higher
E2-6 (RL-) - Body ground	Always	10 kΩ or higher
E2-1 (RR+) - Body ground	Always	10 kΩ or higher
E2-3 (RR-) - Body ground	Always	10 kΩ or higher
I4-3 (TWL+) - Body ground*1	Always	10 kΩ or higher
I4-1 (TWL-) - Body ground*1	Always	10 kΩ or higher
H4-3 (TWR+) - Body ground*1	Always	10 kΩ or higher
H4-1 (TWR-) - Body ground*1	Always	10 kΩ or higher

- *1: for 6 Speakers

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NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

2.	**INSPECT FRONT NO. 1 SPEAKER**

(a) Resistance check

(1) Measure the resistance between the terminals of the speaker.

Standard Resistance:

for 8 Speakers

Except for 8 Speakers

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
I1-1 - I1-2	Always	1.5 to 2.2 Ω
H1-1 - H1-2	Always	1.5 to 2.2 Ω

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
I1-1 - I1-2	Always	3.2 to 4.8 Ω
H1-1 - H1-2	Always	3.2 to 4.8 Ω

NG ▶ **REPLACE FRONT NO. 1 SPEAKER**

OK ▼

3.	**CONFIRM MODEL**

Result:

RESULT	PROCEED TO
Except 8 Speakers	A
8 Speakers	B

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B ▶ INSPECT REAR SPEAKER

A ▼

4.	INSPECT REAR SPEAKER

(a) Resistance check

(1) Measure the resistance between the terminals of the speaker.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L1-1 - L1-2	Always	3.2 to 4.8 Ω
L2-1 - L2-2	Always	3.2 to 4.8 Ω

NG ▶ REPLACE REAR SPEAKER

OK ▼

5.	CONFIRM MODEL

Result:

RESULT	PROCEED TO
4 Speakers	A
6 Speakers	B

B ▶ INSPECT FRONT NO. 2 SPEAKER

A ▶ PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

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6.	INSPECT FRONT NO. 2 SPEAKER

(a) Check that the malfunction disappears when a known good speaker is installed.

OK:
Malfunction disappears.

HINT:

- Connect all the connectors to the front No. 2 speaker.
- When there is a possibility that either the right or left front speaker is defective, inspect by interchanging the right one with the left one.
- Perform the above inspection on both LH and RH sides.

NG ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK ▶ **REPLACE FRONT NO. 2 SPEAKER**

7.	INSPECT REAR SPEAKER

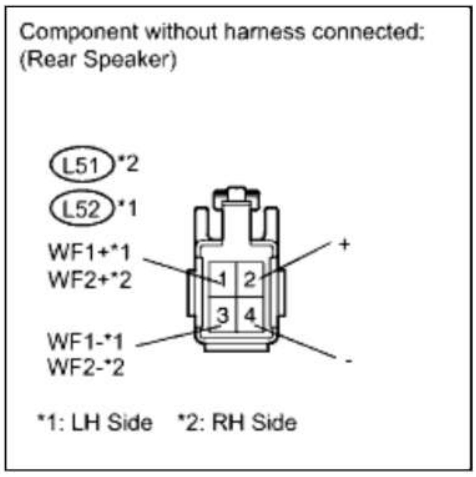
(a) Resistance check

(1) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

for Tweeter

for Woofer



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L52-1 (WF1+) - L52-3 (WF1-)	Always	5.9 to 7.1 Ω
L51-1 (WF2+) - L51-3 (WF2-)	Always	5.9 to 7.1 Ω

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L52-2 (+) - L52-4 (-)	Always	1.8 to 2.6 Ω
L51-2 (+) - L51-4 (-)	Always	1.8 to 2.6 Ω

NOTICE:

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The speaker should not be removed when checking resistance.

NG ▶ REPLACE REAR SPEAKER

OK ▼

8.	INSPECT FRONT NO. 3 SPEAKER

(a) Resistance check

(1) Measure the resistance between the terminals of the speaker.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
I9-1 - I9-2	Always	1.5 to 2.5 Ω
H10-1 - H10-2	Always	1.5 to 2.5 Ω

NG ▶ REPLACE FRONT NO. 3 SPEAKER

OK ▶ PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002NNE03EX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Vehicle Speed Signal Circuit between Radio Receiver and Combination Meter (2010 Corolla)		

Vehicle Speed Signal Circuit between Radio Receiver and Combination Meter

DESCRIPTION

The circuit is necessary for the ASL (Automatic Sound Levelizer) built into the radio receiver.

Speed signals are received from the combination meter and used for the ASL.

The ASL function automatically adjusts the sound volume in order to enable clear audio quality even when vehicle noise increases (as vehicle noise increases, the volume is turned up etc.).

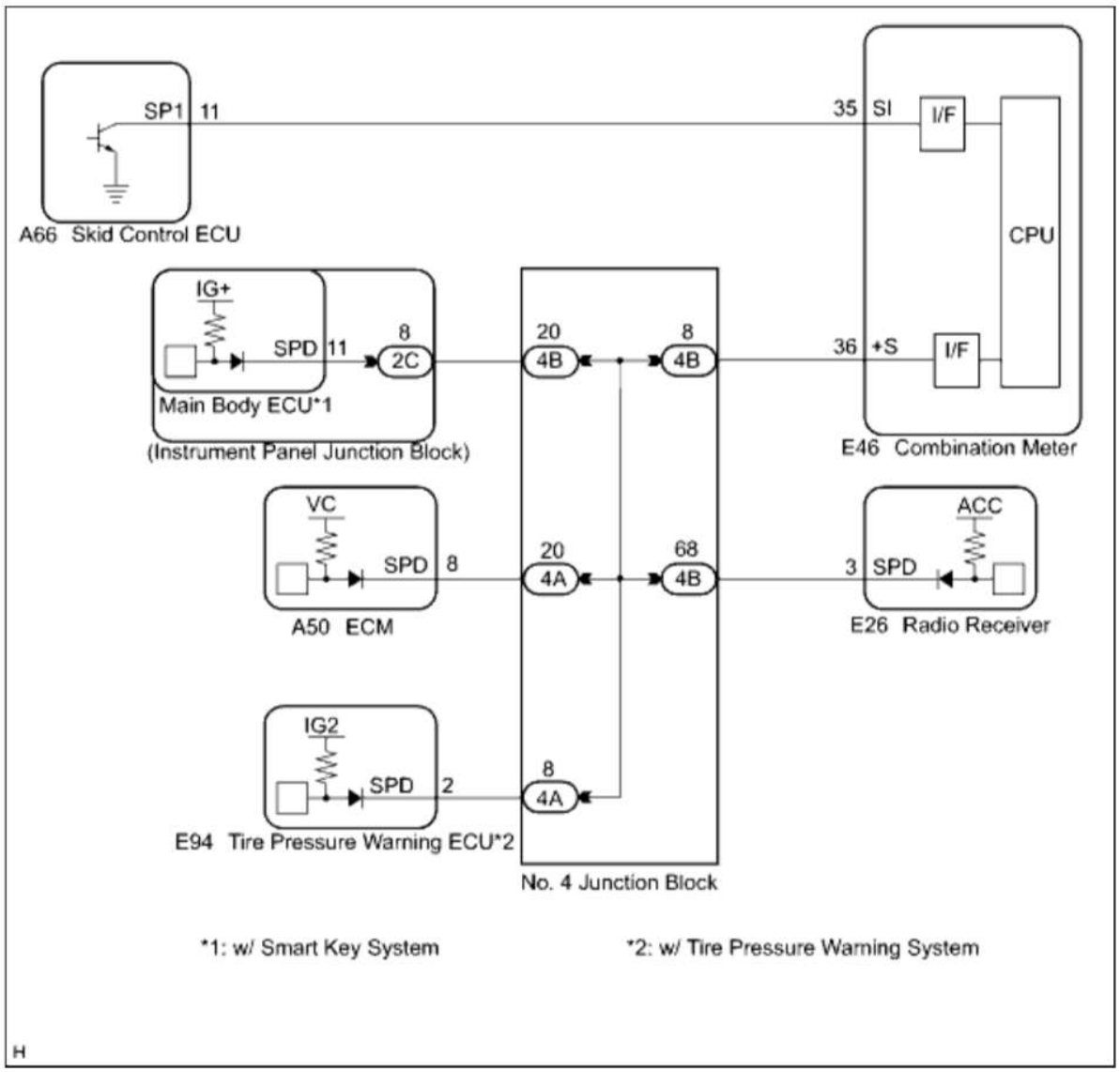
HINT:

- A voltage of 12 V or 5 V is output from each ECU and then input to the combination meter. The signal is changed to a pulse signal at the transistor in the combination meter. Each ECU controls the respective system based on the pulse signal.
- If a short occurs in any of the ECUs or in the wire harness connected to an ECU, all systems in the diagram below will not operate normally.

WIRING DIAGRAM

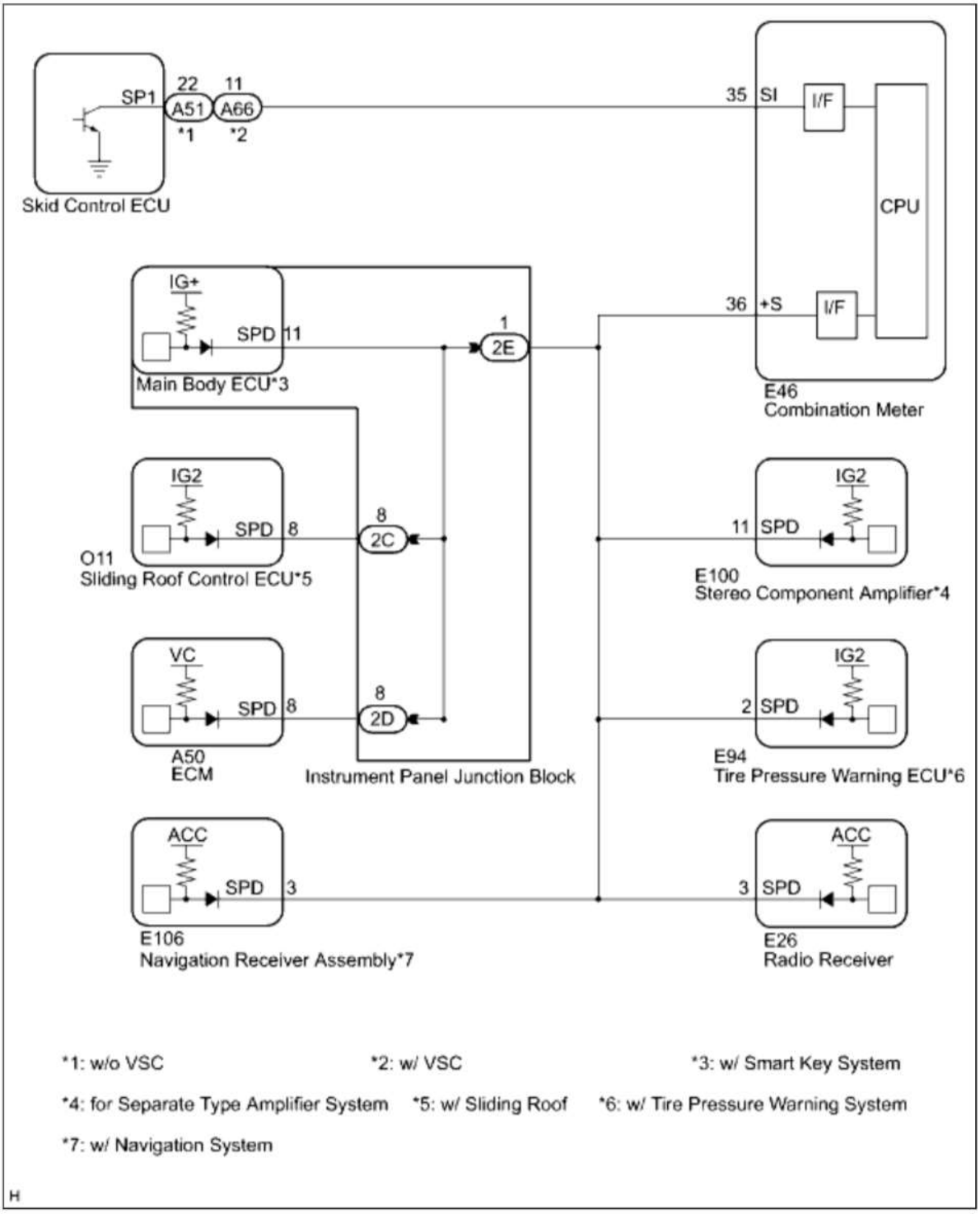
1. for TMC Made 2ZR-FE:

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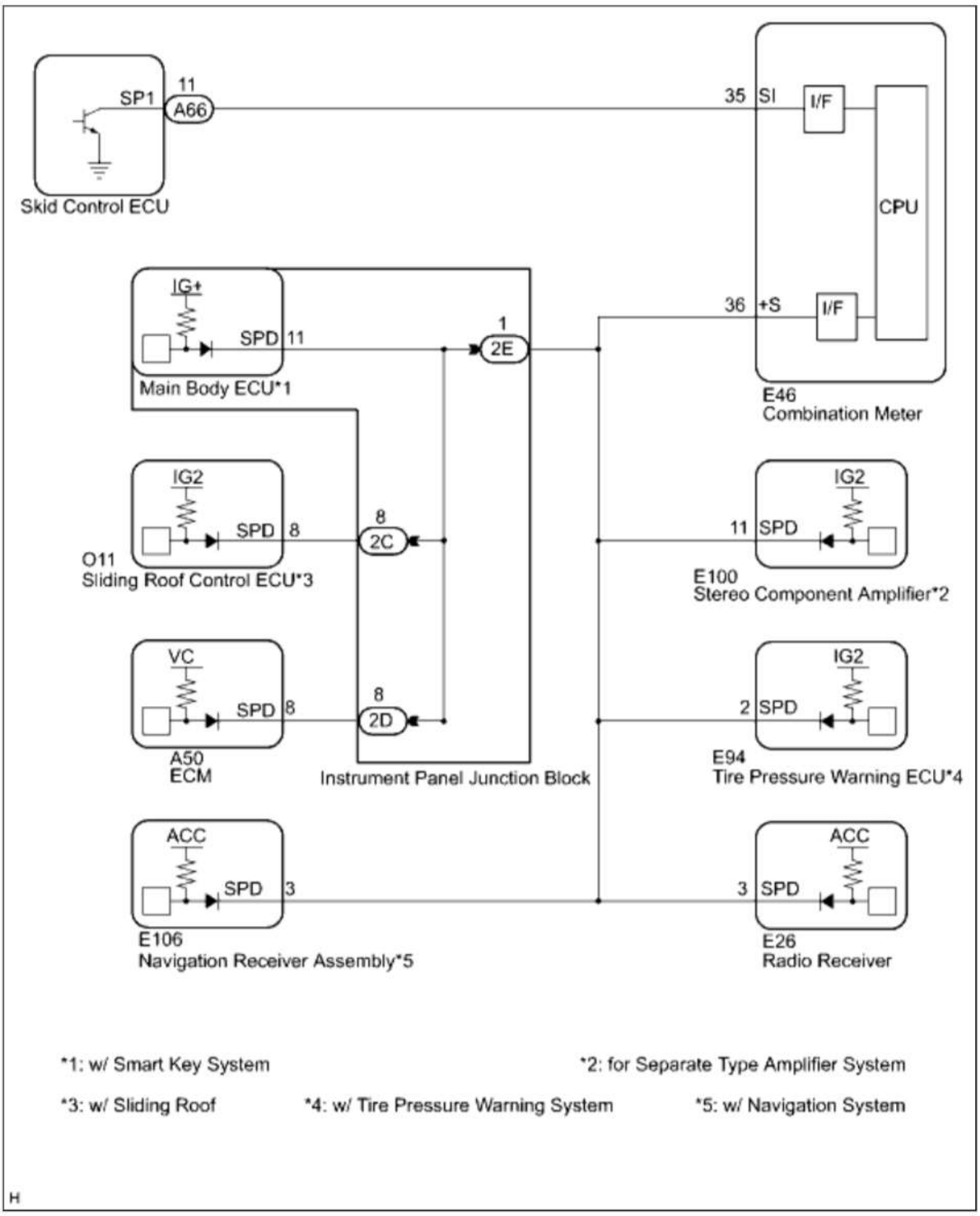
2. except TMC Made 2ZR-FE:

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3. except TMC Made 2AZ-FE:

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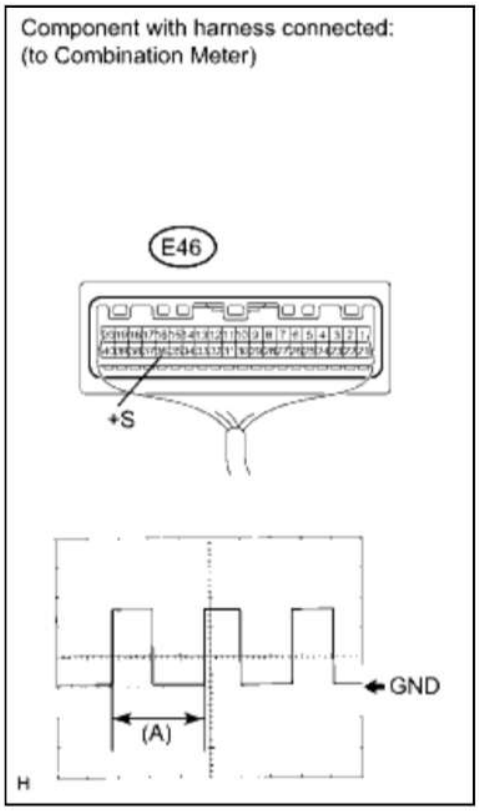


INSPECTION PROCEDURE

PROCEDURE

1.	INSPECT COMBINATION METER ASSEMBLY (OUTPUT WAVEFORM)

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(a) Check the output waveform.

(1) Remove the combination meter assembly with the connector still connected.

(2) Connect an oscilloscope to terminals E46-36 (+S) and body ground.

(3) Turn the ignition switch to ON.

(4) Turn the wheel slowly.

(5) Check the signal waveform according to the condition(s) in the table below.

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

OK:

The waveform is displayed as shown in the illustration.

HINT:

When the system is functioning normally, one wheel revolution generates 4 pulses. As the vehicle speed increases, the width indicated by (A) in the illustration narrows.

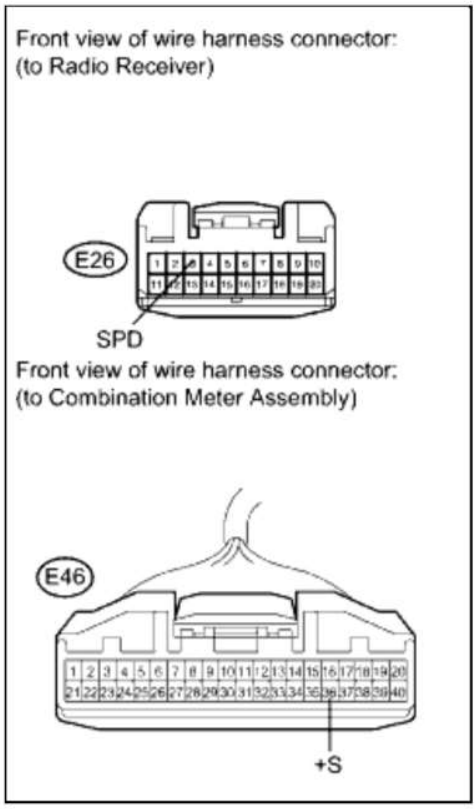
NG ▶ **GO TO METER / GAUGE SYSTEM**

OK ▼

2.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMBINATION METER ASSEMBLY)**

(a) Disconnect the radio receiver connector and the combination meter assembly connector.

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(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E26-3 (SPD) - E46-36 (+S)	Always	Below 1 Ω

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **REPLACE RADIO RECEIVER**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000014SV066X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: The Other Caller cannot Hear Your Voice, or Your Voice is too Quiet or Distorted (2010 Corolla)		

The Other Caller cannot Hear Your Voice, or Your Voice is too Quiet or Distorted

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK CELLULAR PHONE**

(a) Check if the other caller can hear your voice properly.

OK:

Your voice can be heard correctly.

NG ▶ **REPLACE CELLULAR PHONE**

OK ▼

2.	**CHECK SETTINGS**

(a) Check if the mute is set to ON.

OK:

Mute is not set to ON.

NG ▶ **TURN MUTE OFF**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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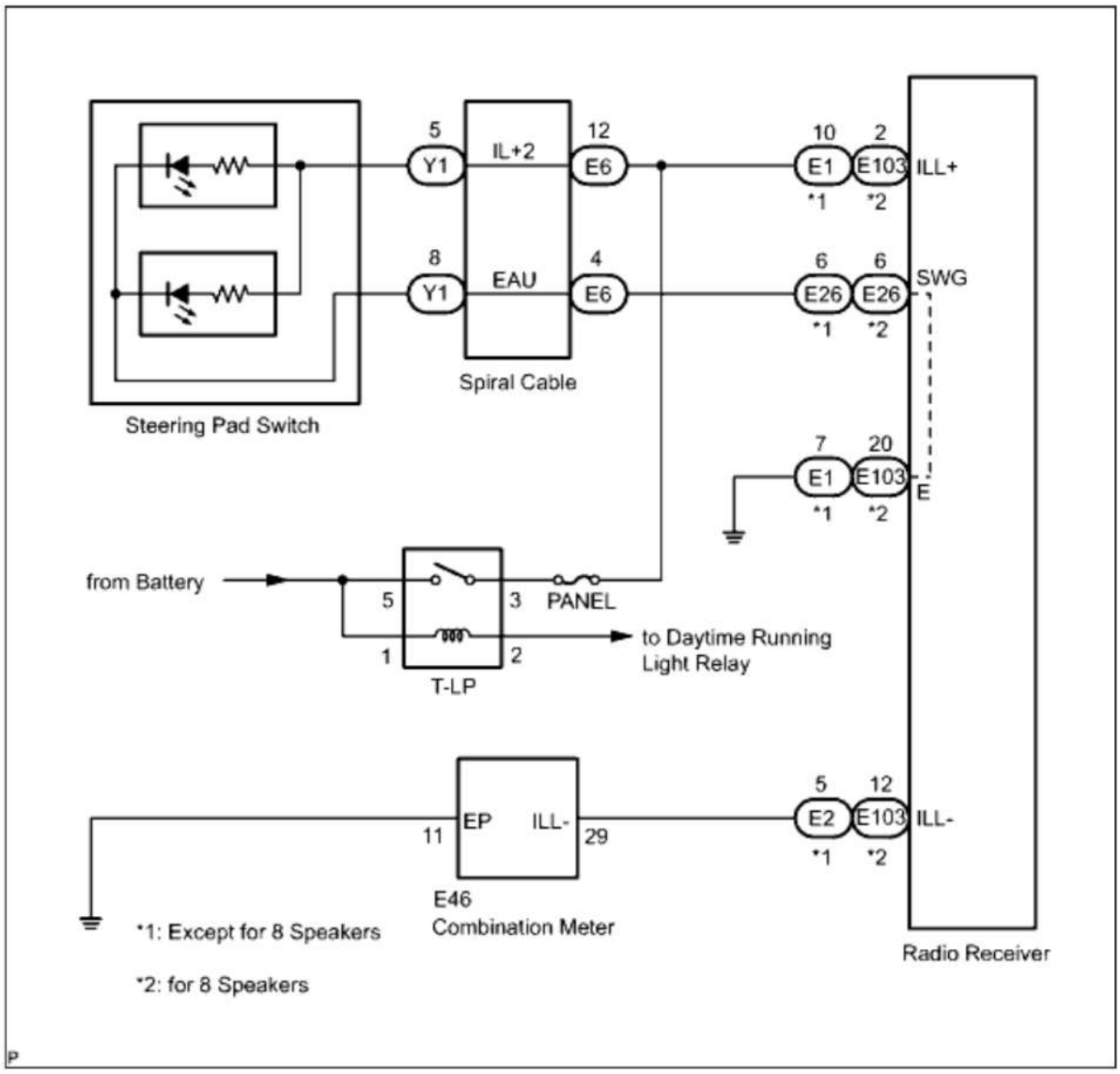
Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CG047X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Illumination Circuit (2010 Corolla)		

Illumination Circuit

DESCRIPTION

Power is supplied to the radio receiver and steering pad switch illumination when the light control switch is in the TAIL or HEAD position.

WIRING DIAGRAM



INSPECTION PROCEDURE

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NOTICE:

The vehicle is equipped with an SRS (Supplemental Restraint System) which includes components such as airbags. Before servicing (including removal or installation of parts), be sure to read the precautionary notice for Supplemental Restraint System INFO .

PROCEDURE

1.	**CHECK ILLUMINATION**

(a) Check if the illumination for the radio receiver, steering pad switch, heater control switch or others (hazard switch, transmission control switch, etc.) comes on when the light control switch is turned to the HEAD or TAIL position.

Result:

RESULT	PROCEED TO
Illumination comes on for all components except steering pad switch.	A
Illumination comes on for all components except radio receiver.	B
No illumination comes on (radio receiver, hazard switch, heater control switch, etc.).	C
Illumination comes on only for hazard switch and steering pad switch.	D

D ▶ **GO TO METER / GAUGE SYSTEM**

C ▶ **GO TO LIGHTING SYSTEM**

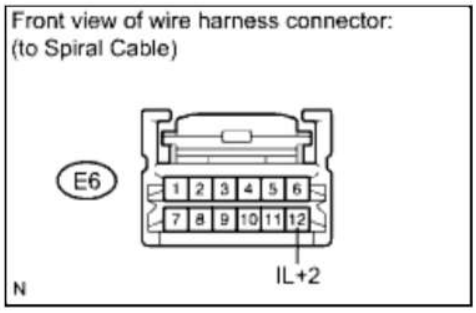
B ▶ **CHECK HARNESS AND CONNECTOR (BATTERY - RADIO RECEIVER)**

A
▼

2.	**CHECK HARNESS AND CONNECTOR (BATTERY - SPIRAL CABLE)**

(a) Disconnect the spiral cable connector.

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(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E6-12 (IL+2) - Body ground	Light control SW TAIL or HEAD	11 to 14 V

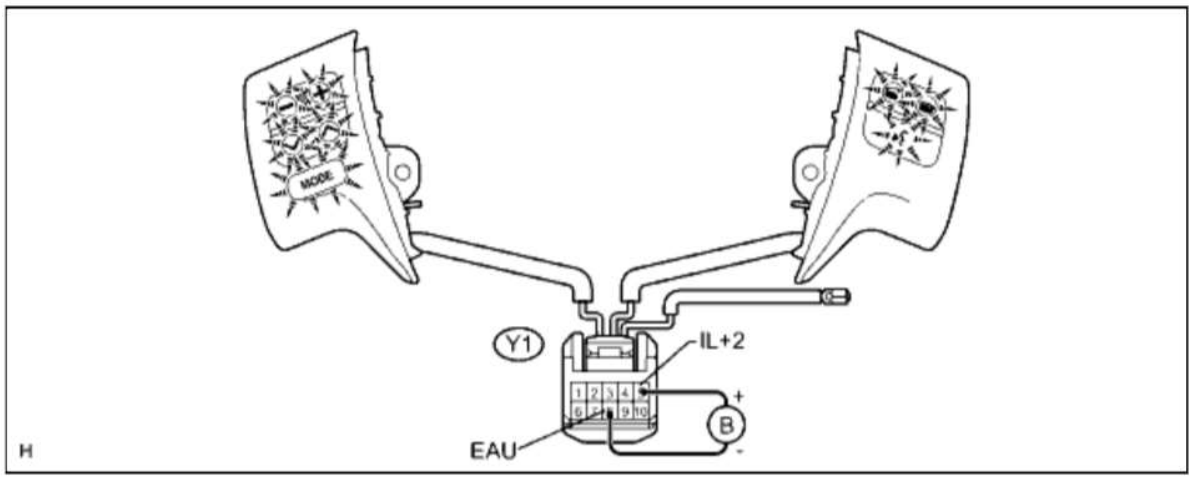
NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

3.	**INSPECT STEERING PAD SWITCH ASSEMBLY**

(a) Disconnect the steering pad switch connector.

(b) Connect a battery positive (+) lead to terminal IL+2 and a negative (-) lead to terminal EAU of the steering pad switch assembly connector.



(c) Check if the illumination for the steering pad switch assembly comes on.

OK:

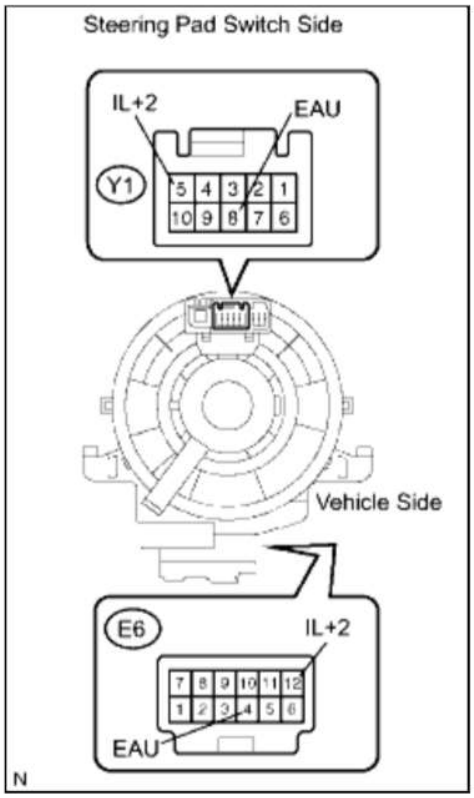
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Illumination for the steering pad switch assembly comes on.

NG ▶ **REPLACE STEERING PAD SWITCH ASSEMBLY**

OK ▼

4.	**INSPECT SPIRAL CABLE**



(a) Disconnect the steering pad switch and the spiral cable connectors.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Y1-8 (EAU) - E6-4 (EAU)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
Y1-5 (IL+2) - E6-12 (IL+2)	Center	Below 1 Ω
	2.5 rotations to the left	

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
	2.5 rotations to the right	

NOTICE:

The spiral cable is an important part of the SRS airbag system. Incorrect removal or installation of the spiral cable may prevent the airbag from deploying. Be sure to read the page shown in the brackets.

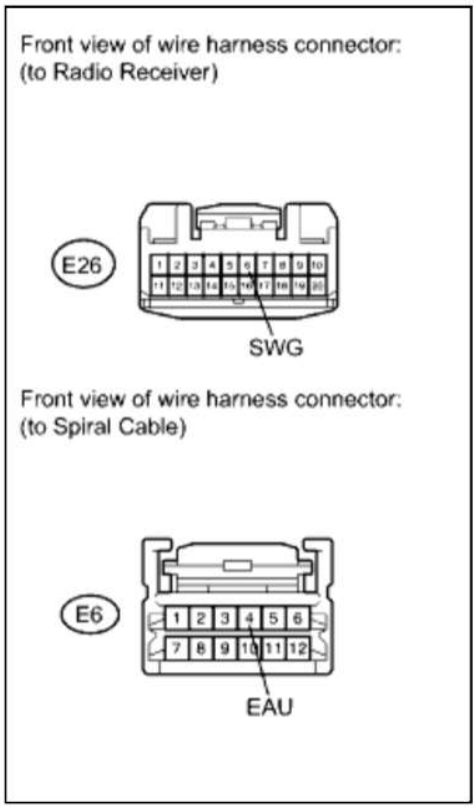
HINT:

- Removal INFO
- Installation INFO

NG ▶ **REPLACE SPIRAL CABLE**

OK ▼

5.	CHECK HARNESS AND CONNECTOR (SPIRAL CABLE - RADIO RECEIVER)



(a) Disconnect the connectors from the radio receiver and spiral cable.

(b) Measure the resistance according to the value(s) in the table below.

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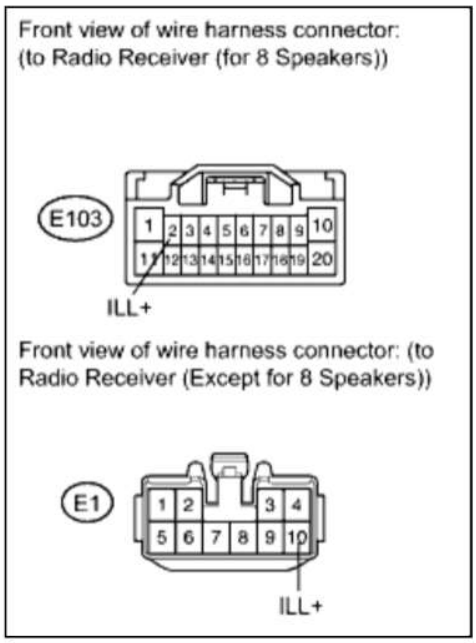
Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E26-6 (SWG) - E6-4 (EAU)	Always	Below 1 Ω
E26-6 (SWG) - Body ground	Always	10 kΩ or higher

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

6.	CHECK HARNESS AND CONNECTOR (BATTERY - RADIO RECEIVER)



(a) Disconnect the radio receiver connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-2 (ILL+) - Body ground*1	Light control switch TAIL or HEAD	11 to 14 V
E1-10 (ILL+) - Body ground*2	Light control switch TAIL or HEAD	11 to 14 V

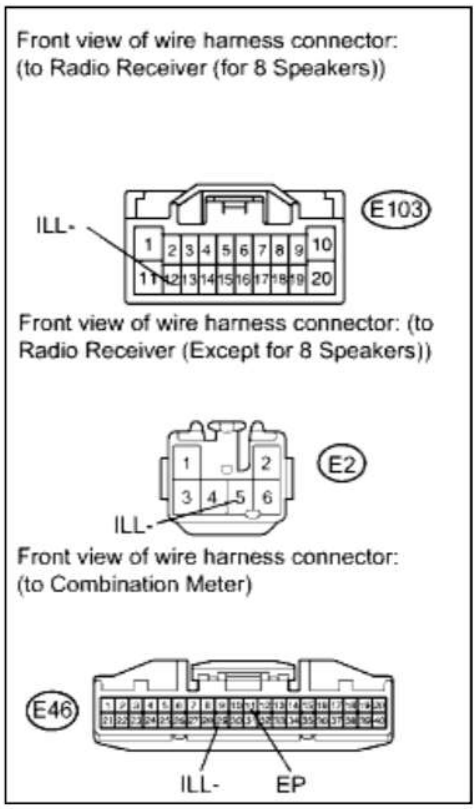
- *1: for 8 Speakers
- *2: Except for 8 Speakers

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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OK

7.	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMBINATION METER)



(a) Disconnect the radio receiver connector and the combination meter connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-12 (ILL-) - E46-29 (ILL-)*1	Always	Below 1 Ω
E2-5 (ILL-) - E46-29 (ILL-)*2	Always	Below 1 Ω
E46-11 (EP) - Body ground	Always	Below 1 Ω
E46-29 (ILL-) - Body ground	Always	10 kΩ or higher

- *1: for 8 Speakers
- *2: Except for 8 Speakers

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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OK ▶ PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE



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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CK04DX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Steering Pad Switch Circuit (2010 Corolla)		

Steering Pad Switch Circuit

DESCRIPTION

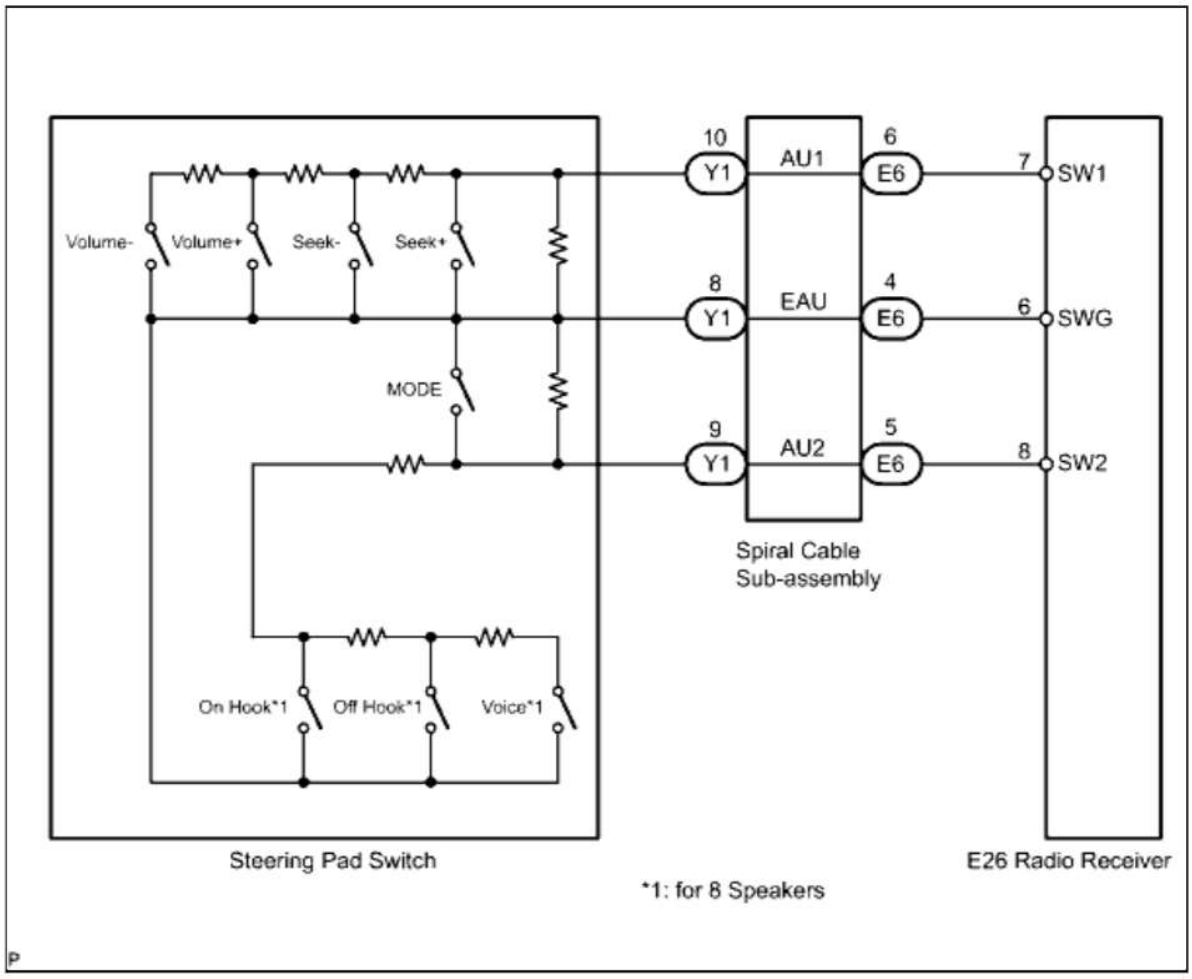
This circuit sends an operation signal from the steering pad switch to the radio receiver.

If there is an open in the circuit, the audio system cannot be operated using the steering pad switch.

If there is a short in the circuit, the same condition as to when a switch is continuously depressed occurs.

Therefore, the radio receiver cannot be operated using the steering pad switch, and also the radio receiver itself cannot function.

WIRING DIAGRAM



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INSPECTION PROCEDURE

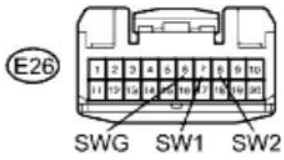
NOTICE:

The vehicle is equipped with an SRS (Supplemental Restraint System) which includes components such as airbags. Before servicing (including removal or installation of parts), be sure to read the precautionary notice for the Supplemental Restraint System INFO .

PROCEDURE

1.	**INSPECT RADIO RECEIVER**

Front view of wire harness connector:
(to Radio Receiver)



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E26-7 (SW1) - E26-6 (SWG)	No switch is pushed	95 to 105 kΩ
E26-7 (SW1) - E26-6 (SWG)	Seek+ switch: pushed	Below 2.5 Ω
E26-7 (SW1) - E26-6 (SWG)	Seek- switch: pushed	313.5 to 346.5 Ω
E26-7 (SW1) - E26-6 (SWG)	Volume+ switch: pushed	959.5 to 1060.5 Ω
E26-7 (SW1) - E26-6 (SWG)	Volume- switch: pushed	3049.5 to 3370.5 Ω
E26-8 (SW2) - E26-6 (SWG)	No switch is pushed	95 to 105 kΩ
E26-8 (SW2) - E26-6 (SWG)	MODE switch: pushed	Below 2.5 Ω
E26-8 (SW2) - E26-6 (SWG)	Voice switch: pushed*1	3049.5 to 3370.5 Ω
E26-8 (SW2) - E26-6 (SWG)	On Hook switch: pushed*1	313.5 to 346.5 Ω
E26-8 (SW2) - E26-6 (SWG)	Off Hook switch: pushed*1	959.5 to 1060.5 Ω

- *1: for 8 Speakers

NG ▶ **INSPECT STEERING PAD SWITCH ASSEMBLY**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN**

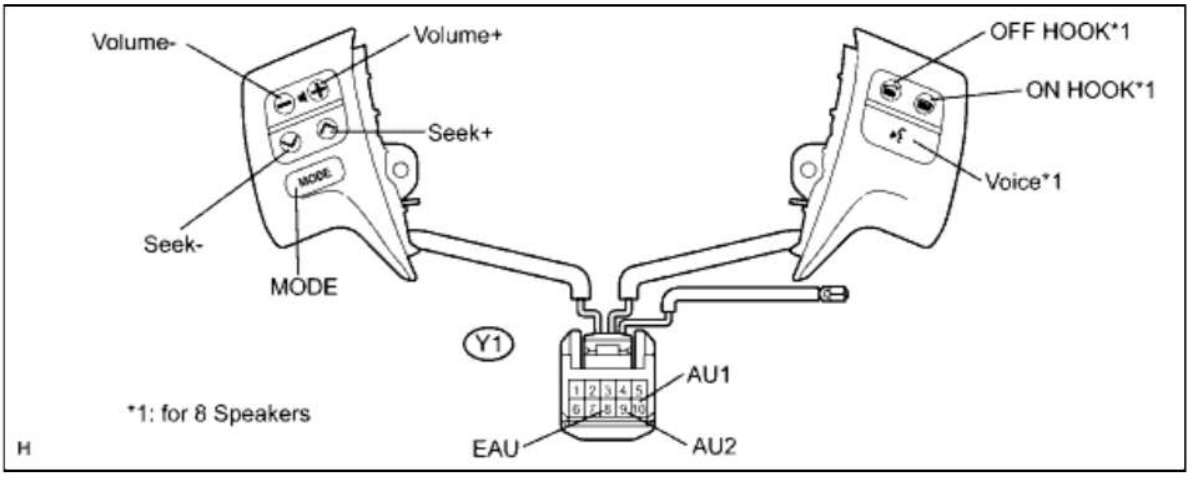
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IN PROBLEM SYMPTOMS TABLE

2.	INSPECT STEERING PAD SWITCH ASSEMBLY

(a) Disconnect the steering pad switch assembly connector.

(b) Measure the resistance according to the values in the table below.



Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Y1-10 (AU1) - Y1-8 (EAU)	No switch is pushed	95 to 105 kΩ
Y1-10 (AU1) - Y1-8 (EAU)	Seek+ switch: pushed	Below 2.5 Ω
Y1-10 (AU1) - Y1-8 (EAU)	Seek- switch: pushed	313.5 to 346.5 Ω
Y1-10 (AU1) - Y1-8 (EAU)	Volume+ switch: pushed	959.5 to 1060.5 Ω
Y1-10 (AU1) - Y1-8 (EAU)	Volume- switch: pushed	3049.5 to 3370.5 Ω
Y1-9 (AU2) - Y1-8 (EAU)	No switch is pushed	95 to 105 kΩ
Y1-9 (AU2) - Y1-8 (EAU)	MODE switch: pushed	Below 2.5 Ω
Y1-9 (AU2) - Y1-8 (EAU)	Voice switch: pushed*1	3049.5 to 3370.5 Ω
Y1-9 (AU2) - Y1-8 (EAU)	ON HOOK switch: pushed*1	313.5 to 346.5 Ω
Y1-9 (AU2) - Y1-8 (EAU)	OFF HOOK switch: pushed*1	959.5 to 1060.5 Ω

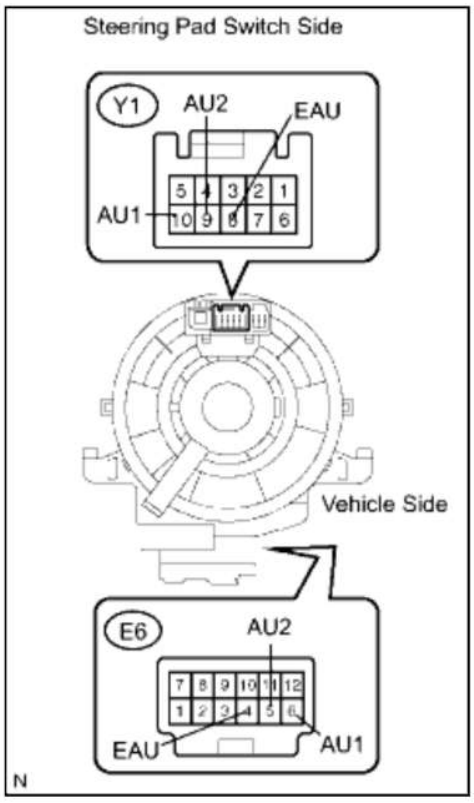
- *1: for 8 Speakers

NG ▶ **REPLACE STEERING PAD SWITCH ASSEMBLY**

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OK

3.	INSPECT SPIRAL CABLE



(a) Disconnect the steering pad switch and spiral cable connectors.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Y1-8 (EAU) - E6-4 (EAU)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
Y1-10 (AU1) - E6-6 (AU1)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
Y1-9 (AU2) - E6-5 (AU2)	Center	Below 1 Ω

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
	2.5 rotations to the left	
	2.5 rotations to the right	

NOTICE:

The spiral cable is an important part of the SRS airbag system. Incorrect removal or installation of the spiral cable may prevent the airbag from deploying. Be sure to read the page shown in the brackets.

HINT:

- Removal INFO
- Installation INFO

NG ▶ **REPLACE SPIRAL CABLE**

OK ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR (SPIRAL CABLE - RADIO RECEIVER)**



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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000014OV02LX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Sound Signal Circuit between Radio Receiver and Stereo Component Amplifier (2010 Corolla)		

Sound Signal Circuit between Radio Receiver and Stereo Component Amplifier

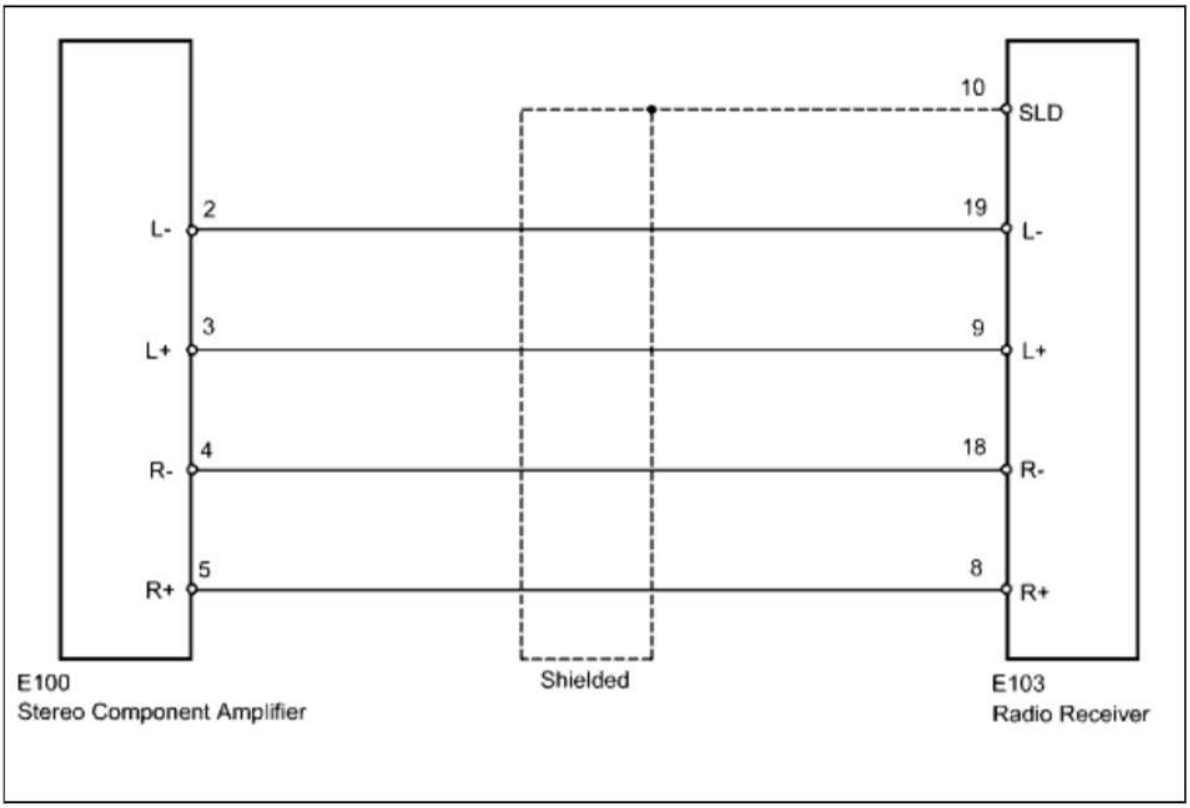
DESCRIPTION

The radio receiver sends a sound signal to the stereo component amplifier through this circuit.

The sound signal that has been sent is amplified by the stereo component amplifier, and then is sent to the speakers.

If there is an open or short in the circuit, sound cannot be heard from the speakers even if there is no malfunction in the stereo component amplifier or speakers.

WIRING DIAGRAM

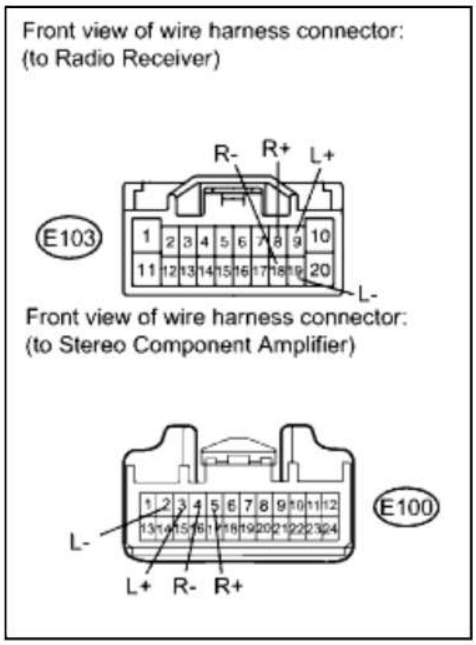


INSPECTION PROCEDURE

PROCEDURE

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1.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - STEREO COMPONENT AMPLIFIER)**



(a) Disconnect the connectors from the radio receiver and the stereo component amplifier.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-9 (L+) - E100-3 (L+)	Always	Below 1 Ω
E103-19 (L-) - E100-2 (L-)	Always	Below 1 Ω
E103-8 (R+) - E100-5 (R+)	Always	Below 1 Ω
E103-18 (R-) - E100-4 (R-)	Always	Below 1 Ω
E103-9 (L+) - Body ground	Always	10 kΩ or higher
E103-19 (L-) - Body ground	Always	10 kΩ or higher
E103-8 (R+) - Body ground	Always	10 kΩ or higher
E103-18 (R-) - Body ground	Always	10 kΩ or higher

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000014OW02LX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Mute Signal Circuit between Radio Receiver and Stereo Component Amplifier (2010 Corolla)		

Mute Signal Circuit between Radio Receiver and Stereo Component Amplifier

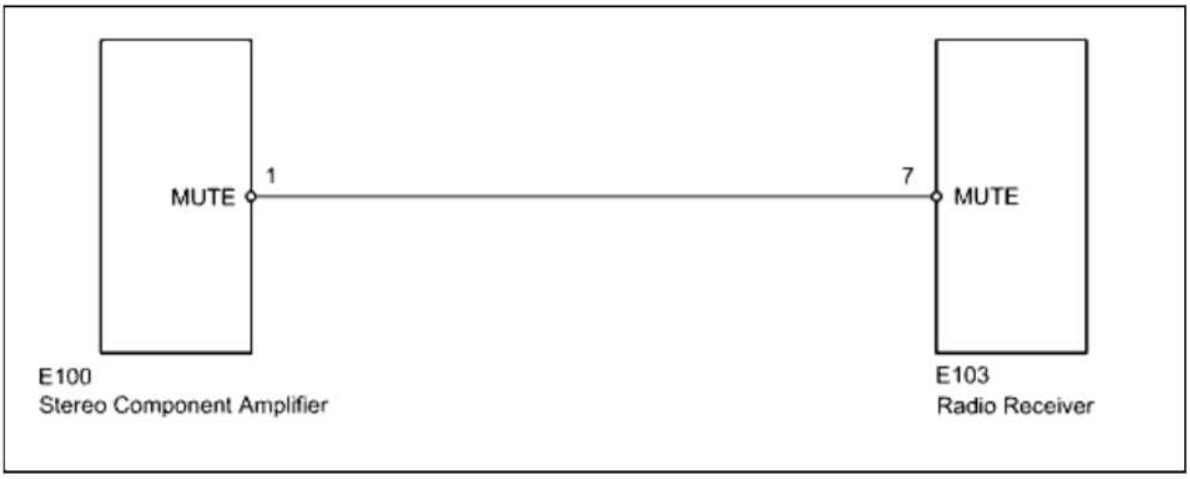
DESCRIPTION

This circuit sends a signal to the stereo component amplifier to mute noise. Because of that, the noise produced by changing the sound source ceases.

If there is an open in the circuit, noise can be heard from the speakers when changing the sound source.

If there is a short in the circuit, even though the stereo component amplifier is functioning, no sound, or only an extremely faint sound, can be heard.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

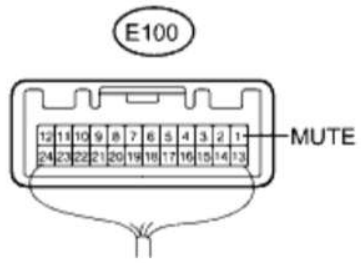
1.	**INSPECT STEREO COMPONENT AMPLIFIER**

(a) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

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Component with harness connected:
(Stereo Component Amplifier)



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E100-1 (MUTE) - Body ground	Ignition switch ACC, Audio system is playing → Changing sources	Above 3.5 V → Below 1 V

NG ▶ **CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - STEREO COMPONENT AMPLIFIER)**

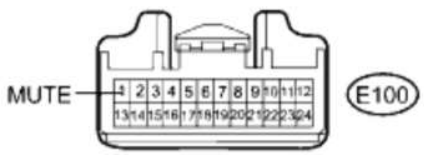
OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

2.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - STEREO COMPONENT AMPLIFIER)**

Front view of wire harness connector:
(to Radio Receiver)



Front view of wire harness connector:
(to Stereo Component Amplifier)



(a) Disconnect the radio receiver connector and the stereo component amplifier connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

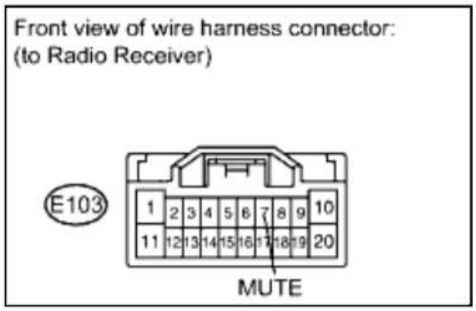
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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-7 (MUTE) - E100-1 (MUTE)	Always	Below 1 Ω
E103-7 (MUTE) - Body ground	Always	10 kΩ or higher

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

3.	INSPECT STEREO COMPONENT AMPLIFIER (OUTPUT SIGNAL)



(a) Reconnect the stereo component amplifier connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-7 (MUTE) - Body ground	Ignition switch ACC, Audio system is playing.	Above 3.5 V

NG ▶ **REPLACE STEREO COMPONENT AMPLIFIER**

OK ▶ **REPLACE RADIO RECEIVER**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001ZYU02FX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Sound Signal Circuit between Radio Receiver and Stereo Jack Adapter (2010 Corolla)		

Sound Signal Circuit between Radio Receiver and Stereo Jack Adapter

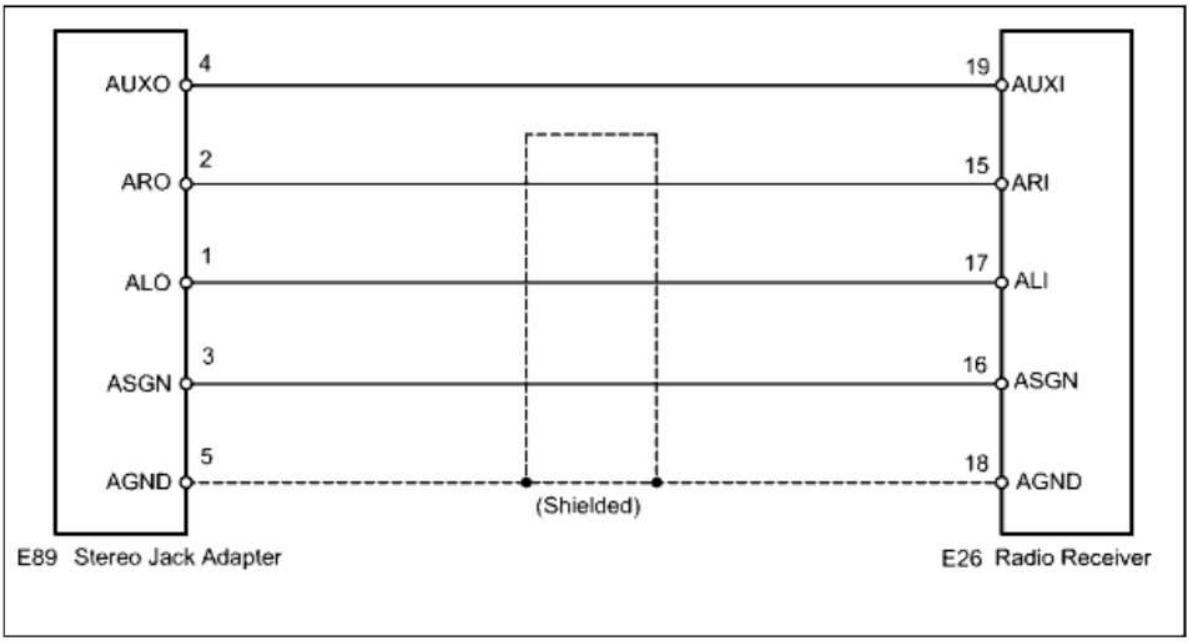
DESCRIPTION

The stereo jack adapter sends an external device sound signal to the radio receiver through this circuit.

The sound signal that has been sent is amplified by the stereo component amplifier or radio receiver, and then is sent to the speakers.

If there is an open or short in the circuit, sound cannot be heard from the speakers even if there is no malfunction in the stereo component amplifier, radio receiver, or speakers.

WIRING DIAGRAM

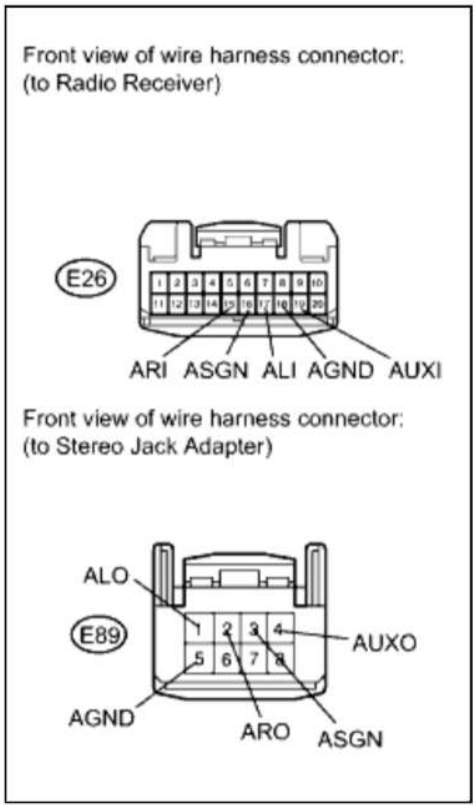


INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - STEREO JACK ADAPTER)**

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(a) Disconnect the connectors from the stereo jack adapter and the radio receiver.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E89-4 (AUXO) - E26-19 (AUXI)	Always	Below 1 Ω
E89-3 (ASGN) - E26-16 (ASGN)	Always	Below 1 Ω
E89-2 (ARO) - E26-15 (ARI)	Always	Below 1 Ω
E89-1 (ALO) - E26-17 (ALI)	Always	Below 1 Ω
E89-5 (AGND) - E26-18 (AGND)	Always	Below 1 Ω
E89-4 (AUXO) - Body ground	Always	10 kΩ or higher
E89-3 (ASGN) - Body ground	Always	10 kΩ or higher
E89-2 (ARO) - Body ground	Always	10 kΩ or higher
E89-1 (ALO) - Body ground	Always	10 kΩ or higher
E89-5 (AGND) - Body ground	Always	Below 1 Ω

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000019NG07IX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: AVC-LAN Circuit (2010 Corolla)		

AVC-LAN Circuit

DESCRIPTION

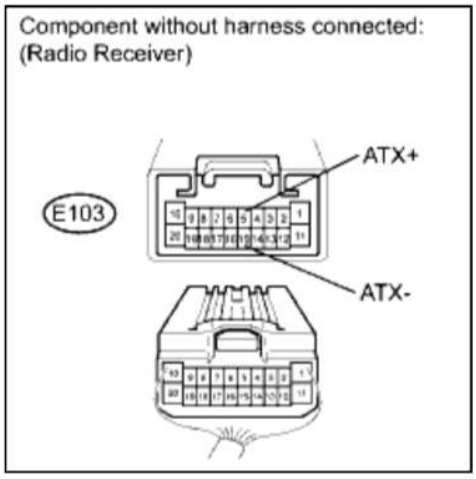
Each audio system component connected to the AVC-LAN (communication bus) transfers the switch signals by the audio visual communication local area network.

If a short to +B or short to ground occurs in this AVC-LAN, the audio system will not function normally as communication is stopped.

INSPECTION PROCEDURE

PROCEDURE

1.	**INSPECT RADIO RECEIVER**



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-5 (ATX+) - E103-15 (ATX-)	Always	60 to 80 Ω

NG ▶ **REPLACE RADIO RECEIVER**

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OK

2.	CHECK HARNESS AND CONNECTOR

HINT:

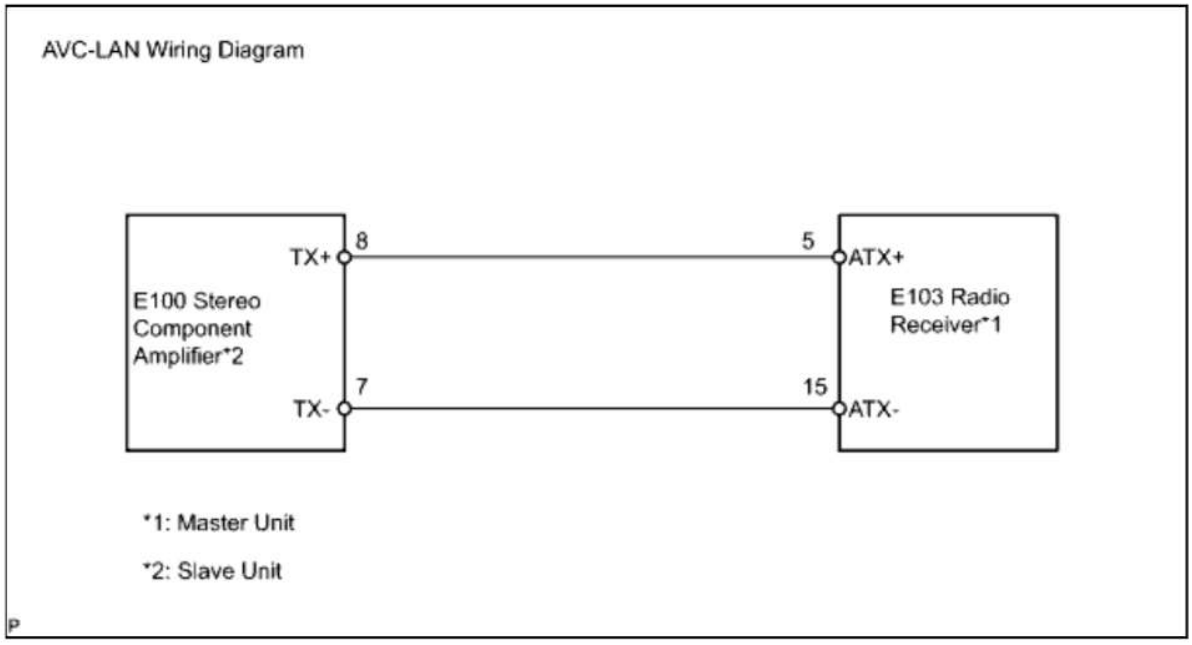
For details of the connectors, refer to Terminals of ECU INFO **.**

(a) Referring to the following AVC-LAN Wiring Diagram, check all AVC-LAN circuits.

(1) Disconnect all connectors in all AVC-LAN circuits.

(2) Check for an open or short in all AVC-LAN circuits.

OK:
There is no open or short circuit.



NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

3.	INSPECT MALFUNCTIONING PARTS

(a) Disconnect and reconnect each slave unit one by one until the master unit returns to

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normal operation.

HINT:

- Check all slave units.
- When disconnecting a slave unit causes the master unit to return to normal operation, this indicates that the slave unit is malfunctioning. Replace the malfunctioning slave unit.

OK:
Master unit returns to normal operation.

NG ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK ▶ **REPLACE MALFUNCTIONING PARTS**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002NNE03DX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Vehicle Speed Signal Circuit between Stereo Component Amplifier and Combination Meter (2010 Corolla)		

Vehicle Speed Signal Circuit between Stereo Component Amplifier and Combination Meter

DESCRIPTION

The circuit is necessary for the ASL (Automatic Sound Levelizer) built into the stereo component amplifier.

Speed signals are received from the combination meter and used for the ASL.

The ASL function automatically adjusts the sound volume in order to clear audio quality even when vehicle noise increases (as vehicle noise increases, the volume is turned up etc.).

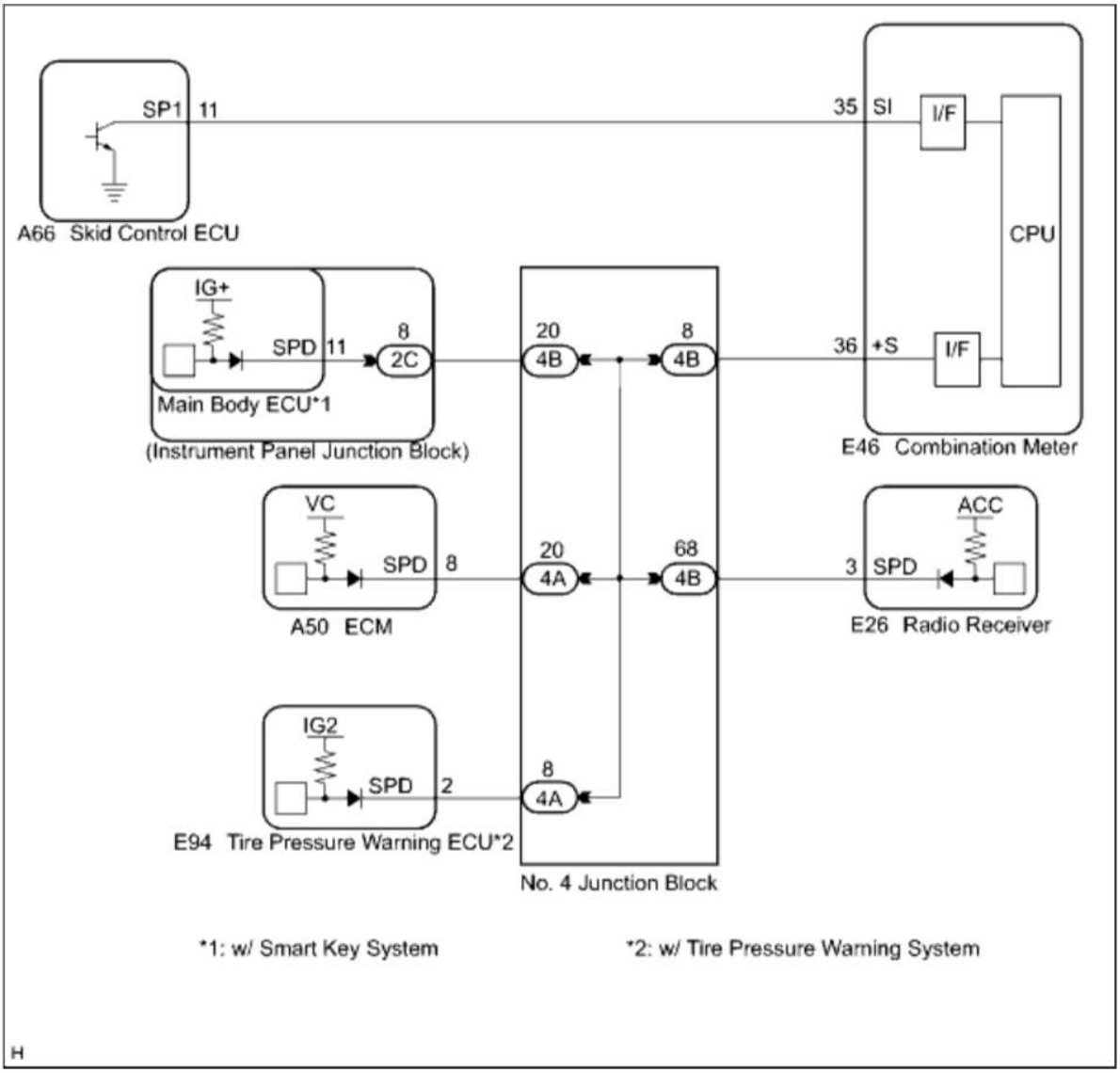
HINT:

- A voltage of 12 V or 5 V is output from each ECU and then input to the combination meter. The signal is changed to a pulse signal at the transistor in the combination meter. Each ECU controls the respective system based on the pulse signal.
- If a short occurs in any of the ECUs or in the wire harness connected to an ECU, all systems in the diagram below will not operate normally.

WIRING DIAGRAM

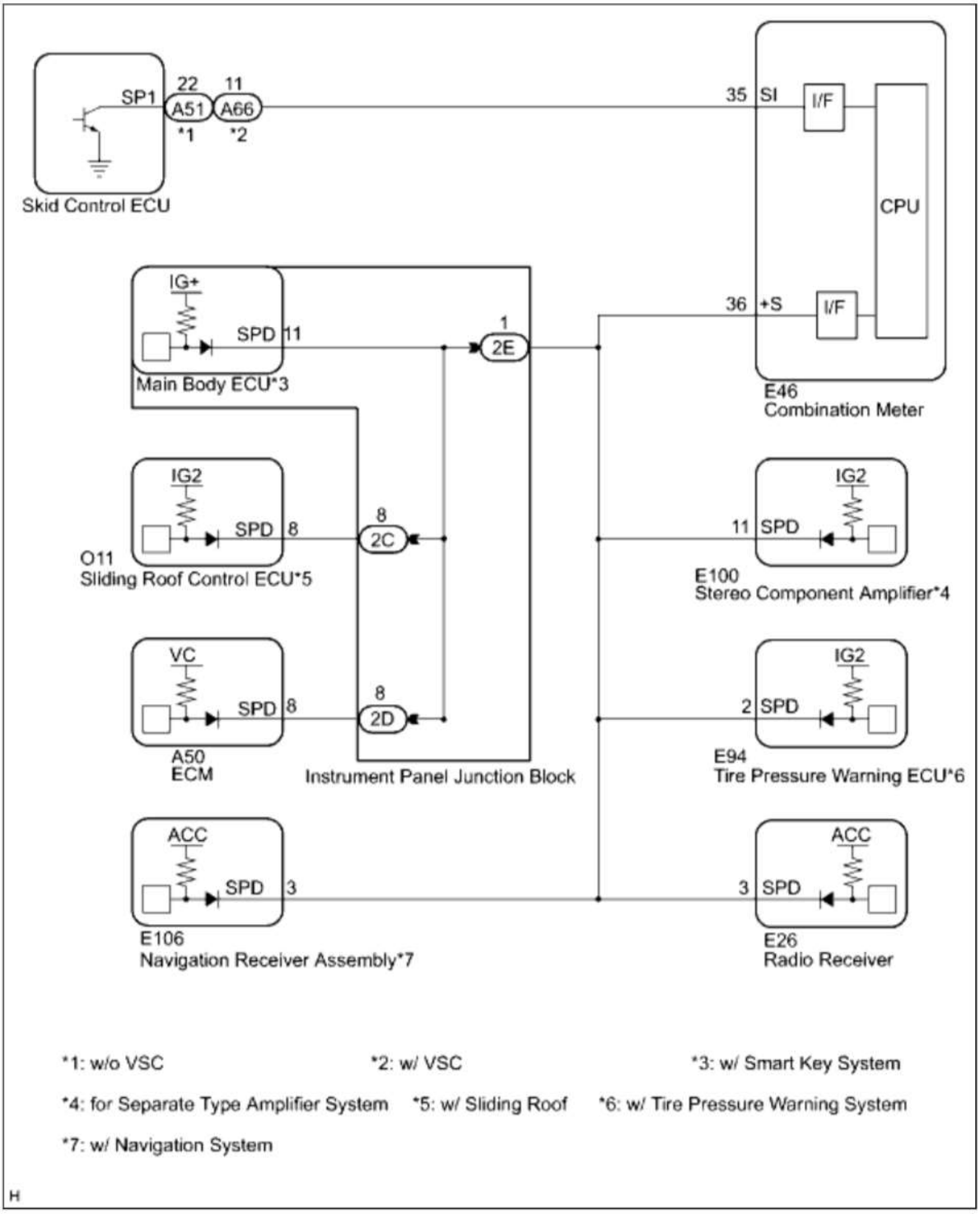
1. for TMC Made 2ZR-FE:

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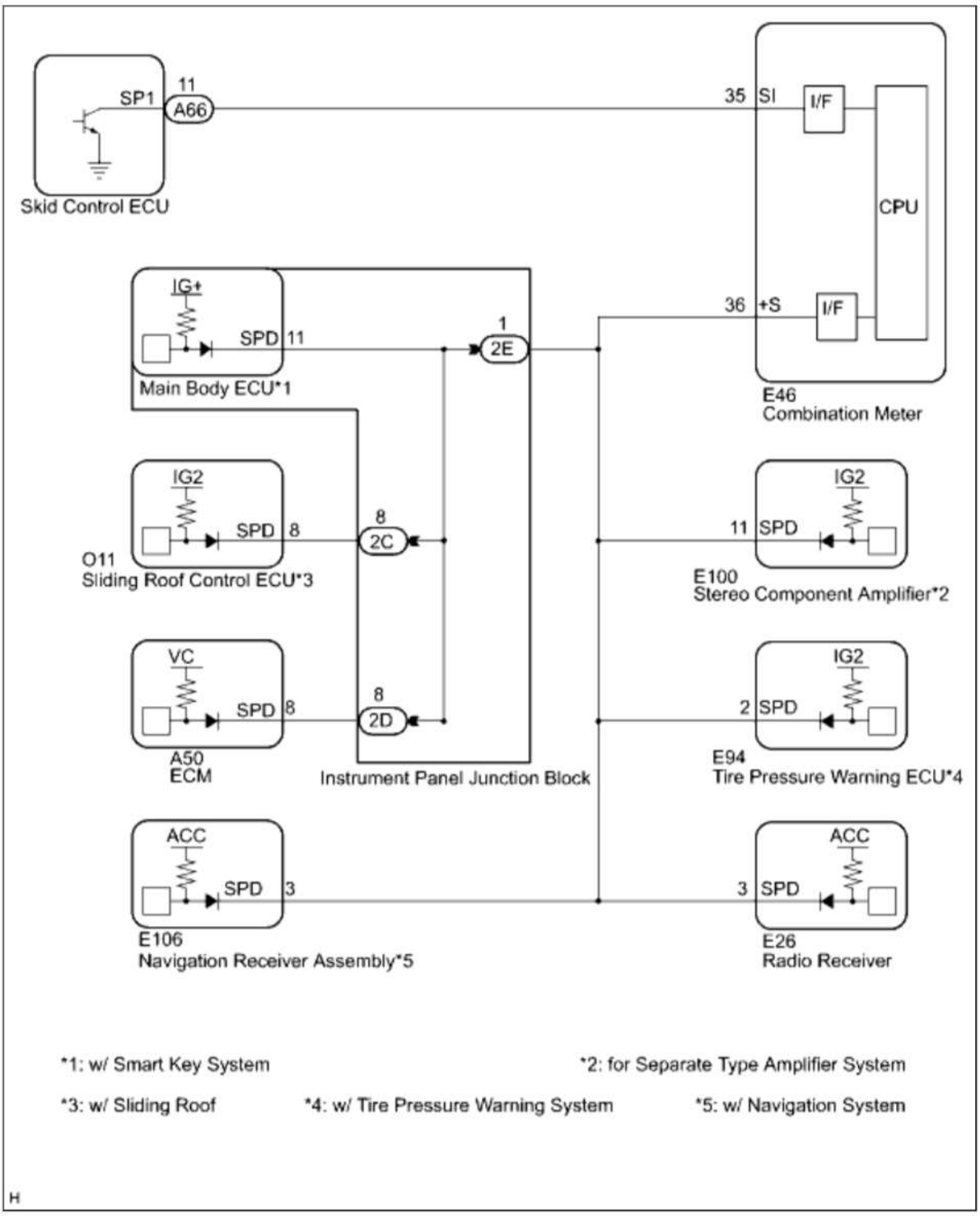
2. except TMC Made 2ZR-FE:

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3. except TMC Made 2AZ-FE:

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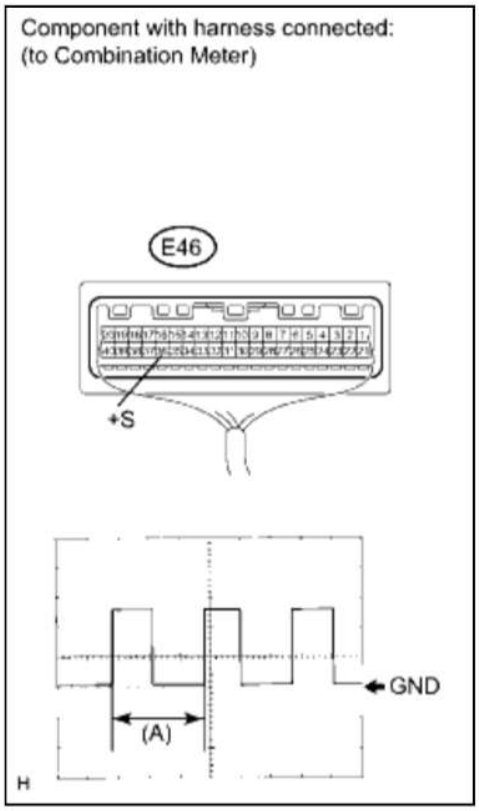


INSPECTION PROCEDURE

PROCEDURE

1.	INSPECT COMBINATION METER ASSEMBLY (OUTPUT WAVEFORM)

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(a) Check the output waveform.

(1) Remove the combination meter assembly with the connector still connected.

(2) Connect an oscilloscope to terminals E46-36 (+S) and body ground.

(3) Turn the ignition switch to ON.

(4) Turn the wheel slowly.

(5) Check the signal waveform according to the condition(s) in the table below.

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

OK:

The waveform is displayed as shown in the illustration.

HINT:

When the system is functioning normally, one wheel revolution generates 4 pulses. As the vehicle speed increases, the width indicated by (A) in the illustration narrows.

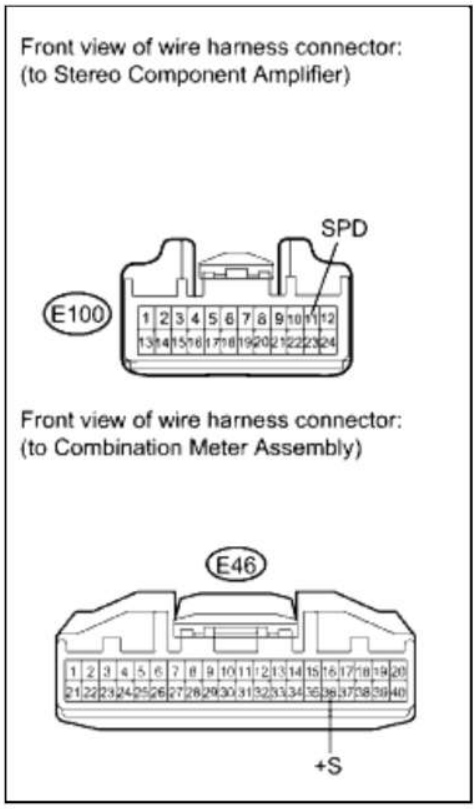
NG ▶ **GO TO METER / GAUGE SYSTEM**

OK ▼

2.	**CHECK HARNESS AND CONNECTOR (STEREO COMPONENT AMPLIFIER - COMBINATION METER ASSEMBLY)**

(a) Disconnect the stereo component amplifier connector and combination meter assembly connector.

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(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E100-11 (SPD) - E46-36 (+S)	Always	Below 1 Ω

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **REPLACE STEREO COMPONENT AMPLIFIER**

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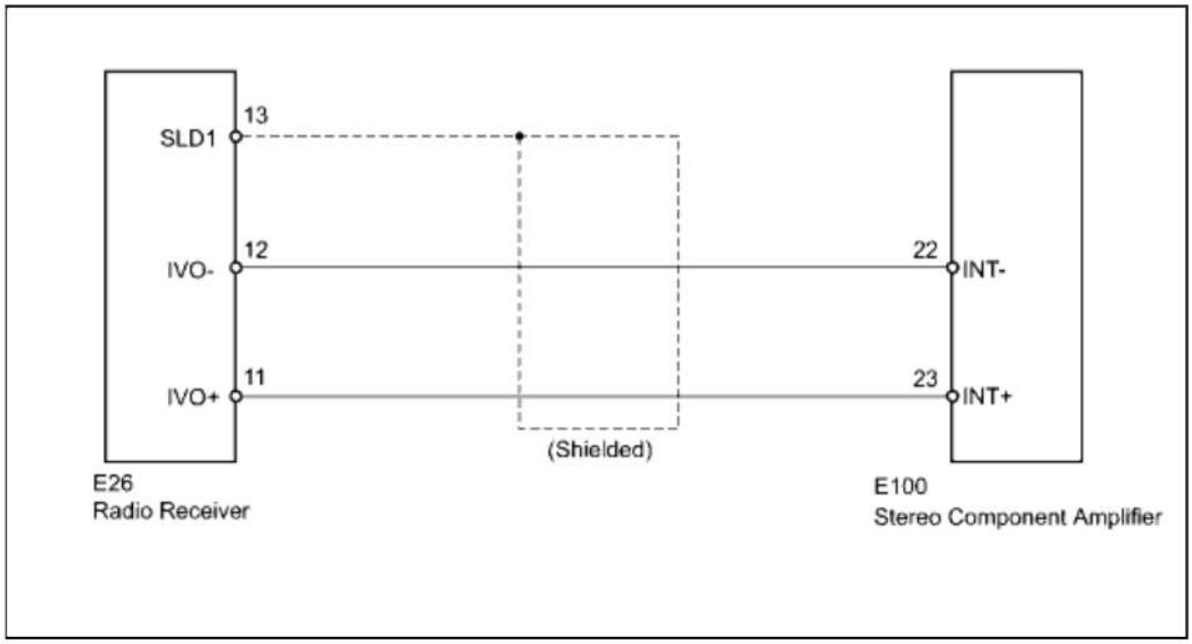
Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002EXE019X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Cellular Phone Voice Circuit between Radio Receiver and Stereo Component Amplifier (2010 Corolla)		

Cellular Phone Voice Circuit between Radio Receiver and Stereo Component Amplifier

SYSTEM DESCRIPTION

This circuit is used when an incoming cellular phone voice in the "Bluetooth" handsfree system is received.

WIRING DIAGRAM



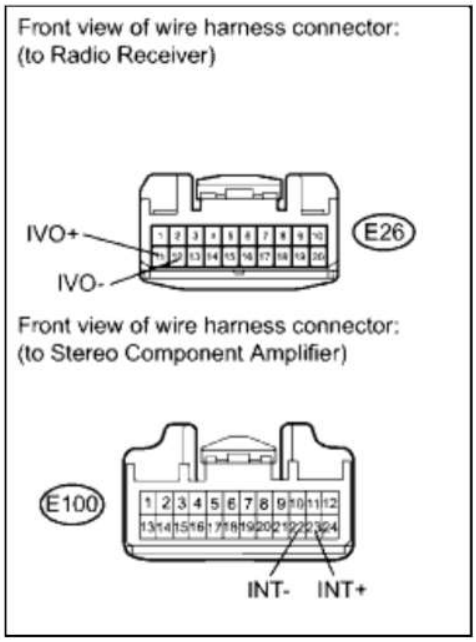
INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - STEREO COMPONENT AMPLIFIER)**

(a) Disconnect the radio receiver connector and the stereo component amplifier connector.

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(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E26-11 (IVO+) - E100-23 (INT+)	Always	Below 1 Ω
E26-12 (IVO-) - E100-22 (INT-)	Always	Below 1 Ω
E26-11 (IVO+) - Body ground	Always	10 kΩ or higher
E26-12 (IVO-) - Body ground	Always	10 kΩ or higher

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000002EBY015X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Microphone Circuit between Microphone and Radio Receiver (2010 Corolla)		

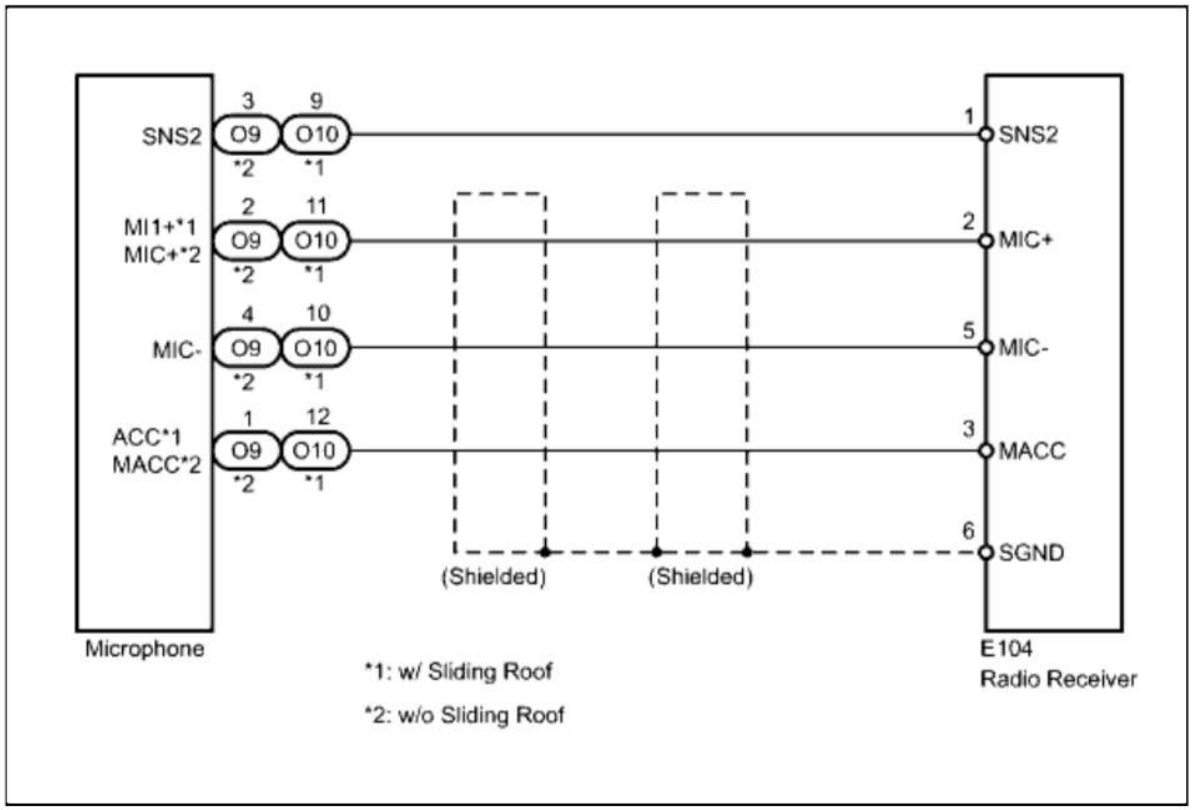
Microphone Circuit between Microphone and Radio Receiver

DESCRIPTION

This circuit sends a microphone signal from the microphone to the radio receiver.

It also supplies power from the radio receiver to the microphone.

WIRING DIAGRAM

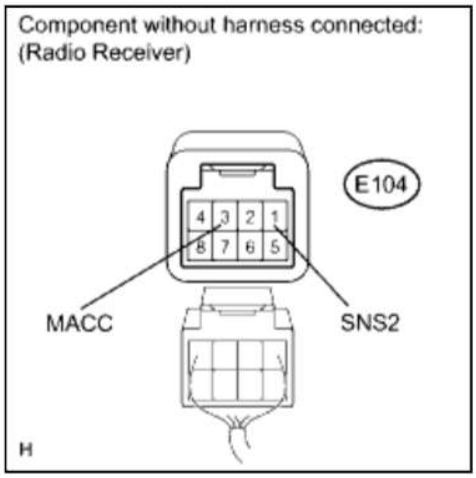


INSPECTION PROCEDURE

PROCEDURE

1.	**INSPECT RADIO RECEIVER**

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(a) Disconnect the radio receiver connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E104-3 (MACC) - Body ground	Ignition switch ON	4 to 6 V
E104-1 (SNS2) - Body ground	Ignition switch ON	4 to 6 V

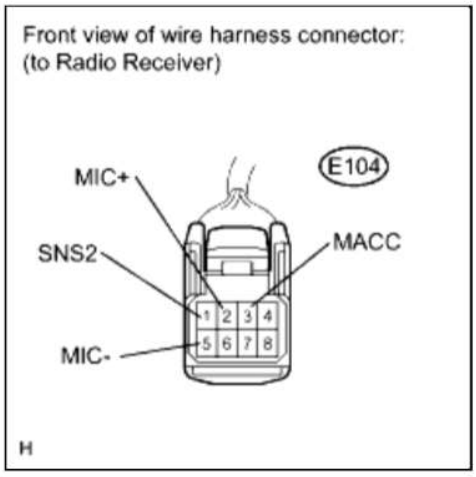
NG ▶ **REPLACE RADIO RECEIVER**

OK ▼

2.	**CHECK HARNESS AND CONNECTOR (MICROPHONE - RADIO RECEIVER)**

(a) Disconnect the microphone connector and the radio receiver connector.

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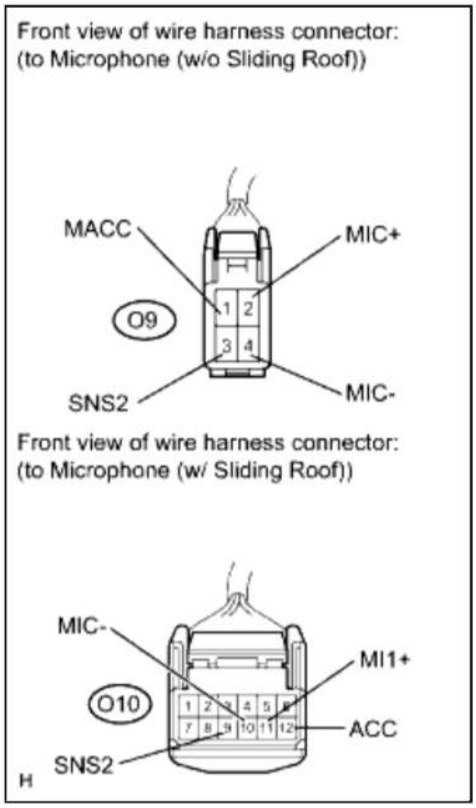


(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

w/ Sliding Roof

w/o Sliding Roof



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O10-9 (SNS2) - E104-1 (SNS2)	Always	Below 1 Ω
O10-11 (MI1+) - E104-2 (MIC+)	Always	Below 1 Ω
O10-10 (MIC-) - E104-5 (MIC-)	Always	Below 1 Ω
O10-12 (ACC) - E104-3 (MACC)	Always	Below 1 Ω
O10-9 (SNS2) - Body ground	Always	10 kΩ or higher
O10-11 (MI1+) - Body ground	Always	10 kΩ or higher
O10-10 (MIC-) - Body ground	Always	10 kΩ or higher
O10-12 (ACC) - Body ground	Always	10 kΩ or higher

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O9-3 (SNS2) - E104-1 (SNS2)	Always	Below 1 Ω

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O9-2 (MIC+) - E104-2 (MIC+)	Always	Below 1 Ω
O9-4 (MIC-) - E104-5 (MIC-)	Always	Below 1 Ω
O9-1 (MACC) - E104-3 (MACC)	Always	Below 1 Ω
O9-3 (SNS2) - Body ground	Always	10 kΩ or higher
O9-2 (MIC+) - Body ground	Always	10 kΩ or higher
O9-4 (MIC-) - Body ground	Always	10 kΩ or higher
O9-1 (MACC) - Body ground	Always	10 kΩ or higher

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**



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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001841064X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Radio Receiver Communication Error (2010 Corolla)		

Radio Receiver Communication Error

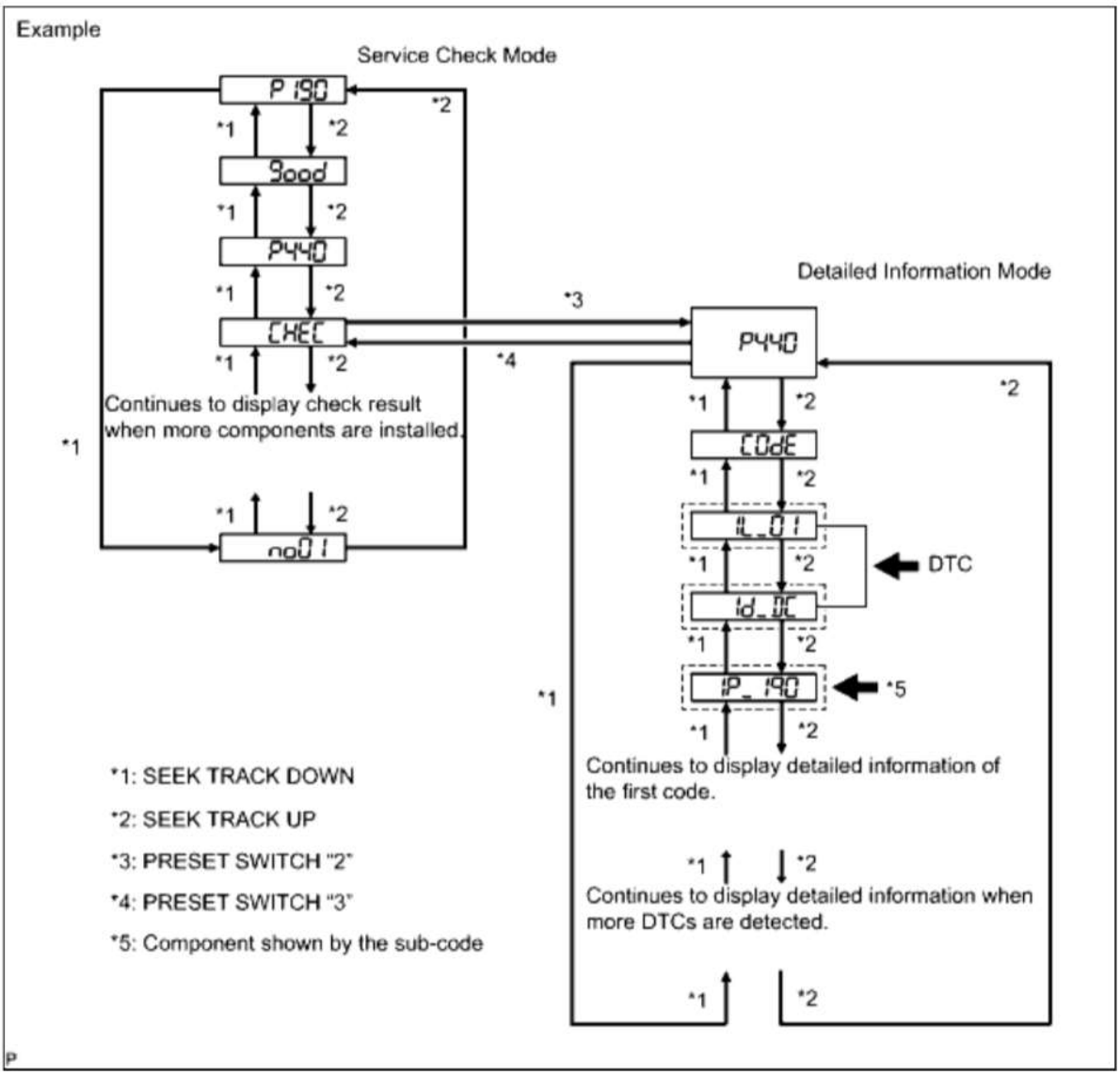
INSPECTION PROCEDURE

PROCEDURE

1.	**IDENTIFY THE COMPONENT SHOWN BY SUB-CODE**

(a) Enter the diagnostic mode.

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(b) Press the preset switch "3" to change the mode to "Detailed Information Mode".

(c) Identify the component shown by the sub-code.

HINT:

- "P190" set by the radio receiver is shown in the preceding illustration as an example.
- For details of the DTC display, refer to DTC Check/Clear INFO .

NEXT

2.	**CHECK POWER SOURCE CIRCUIT OF COMPONENT SHOWN BY SUB-CODE**

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(a) Inspect the power source circuit of the component shown by the sub-code.

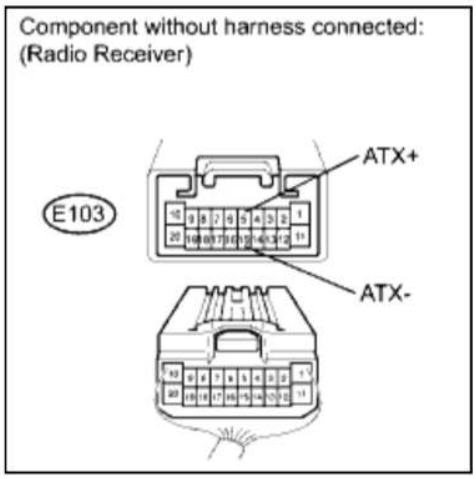
If the power source circuit is operating normally, proceed to the next step.

Component Table

COMPONENT	PROCEED TO
Stereo component amplifier (440)	Stereo component amplifier power source circuit INFO

NEXT

3.	**INSPECT RADIO RECEIVER**



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-5 (ATX+) - E103-15 (ATX-)	Always	60 to 80 Ω

NG ▶ **REPLACE RADIO RECEIVER**

OK

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4.	**CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMPONENT SHOWN BY SUB-CODE)**

HINT:

- Start the check from the circuit that is near the component shown by the sub-code first.
- For details of the connectors, refer to Terminals of ECU INFO .

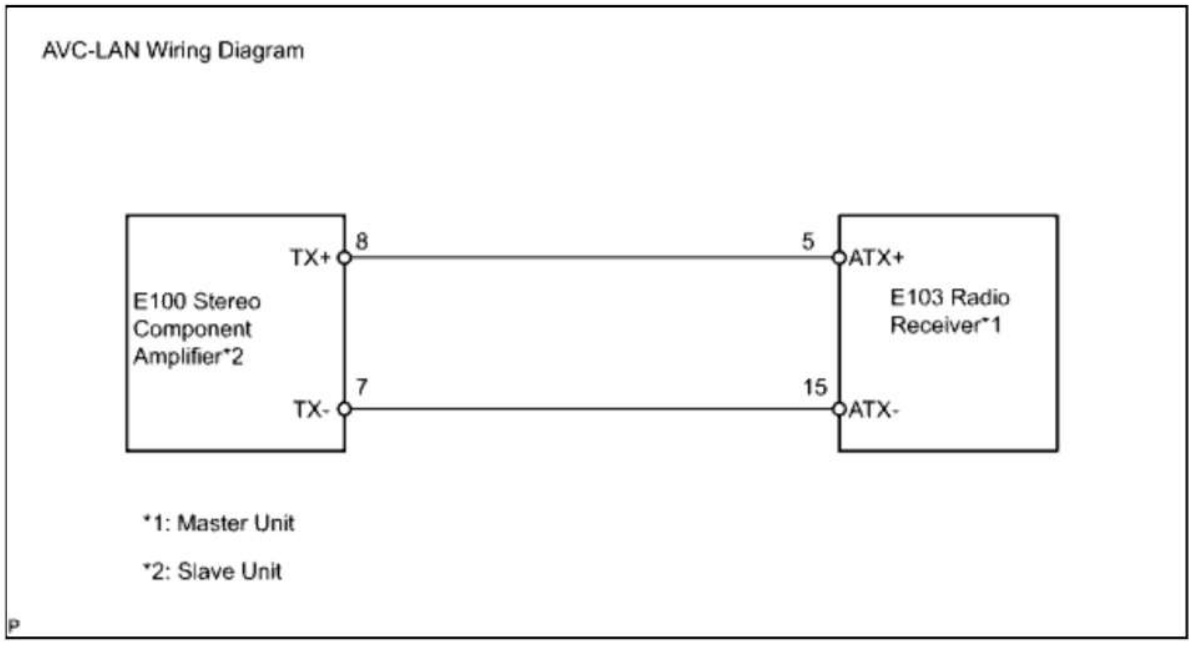
(a) Referring to the following AVC-LAN Wiring Diagram, check the AVC-LAN circuit between the radio receiver and the component shown by the sub-code.

(1) Disconnect all connectors between the radio receiver and the component shown by the sub-code.

(2) Check for an open or short in the AVC-LAN circuit between the radio receiver and the component shown by the sub-code.

OK:

There is no open or short circuit.



NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

5.	**REPLACE COMPONENT SHOWN BY SUB-CODE**

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(a) Replace the component shown by the sub-code with a known good one and check if the same problem occurs again.

OK:

Same problem does not occur.

NG ▶ REPLACE RADIO RECEIVER

OK ▶ END

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Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM000001842072X
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Stereo Component Amplifier Communication Error (2010 Corolla)		

Stereo Component Amplifier Communication Error

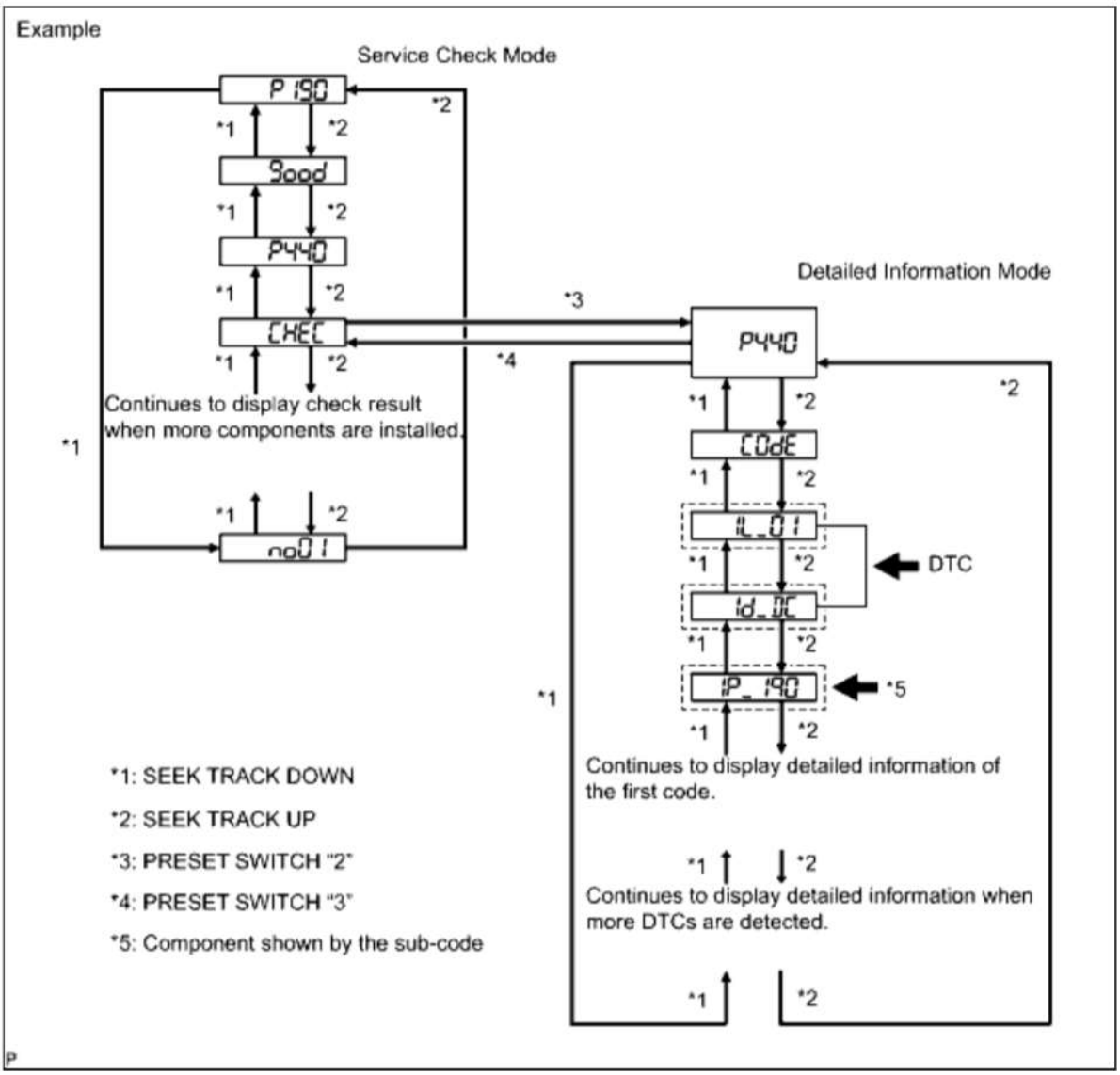
INSPECTION PROCEDURE

PROCEDURE

1.	**IDENTIFY THE COMPONENT SHOWN BY SUB-CODE**

(a) Enter the diagnostic mode.

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(b) Press the preset switch "3" to change the mode to "Detailed Information Mode".

(c) Identify the component shown by the sub-code.

HINT:

- "P190" set by the radio receiver is shown in the preceding illustration as an example.
- For details of the DTC display, refer to DTC Check/Clear INFO .

NEXT

2.	**CHECK POWER SOURCE CIRCUIT OF COMPONENT SHOWN BY SUB-CODE**

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(a) Inspect the power source circuit of the component shown by the sub-code.

If the power source circuit is operating normally, proceed to the next step.

HINT:

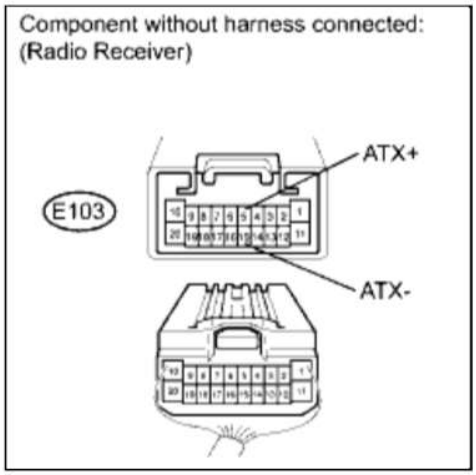
The "Bluetooth" handsfree module is built into the radio receiver.

Component Table

COMPONENT	PROCEED TO
Radio receiver (190)	Radio receiver power source circuit INFO

NEXT

3.	INSPECT RADIO RECEIVER



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-5 (ATX+) - E103-15 (ATX-)	Always	60 to 80 Ω

NG ▶ **REPLACE RADIO RECEIVER**

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OK

4.	**CHECK HARNESS AND CONNECTOR (STEREO COMPONENT AMPLIFIER - COMPONENT SHOWN BY SUB-CODE)**

HINT:

- Start the check from the circuit that is near the component shown by the sub-code first.
- For details of the connectors, refer to Terminals of ECU INFO .

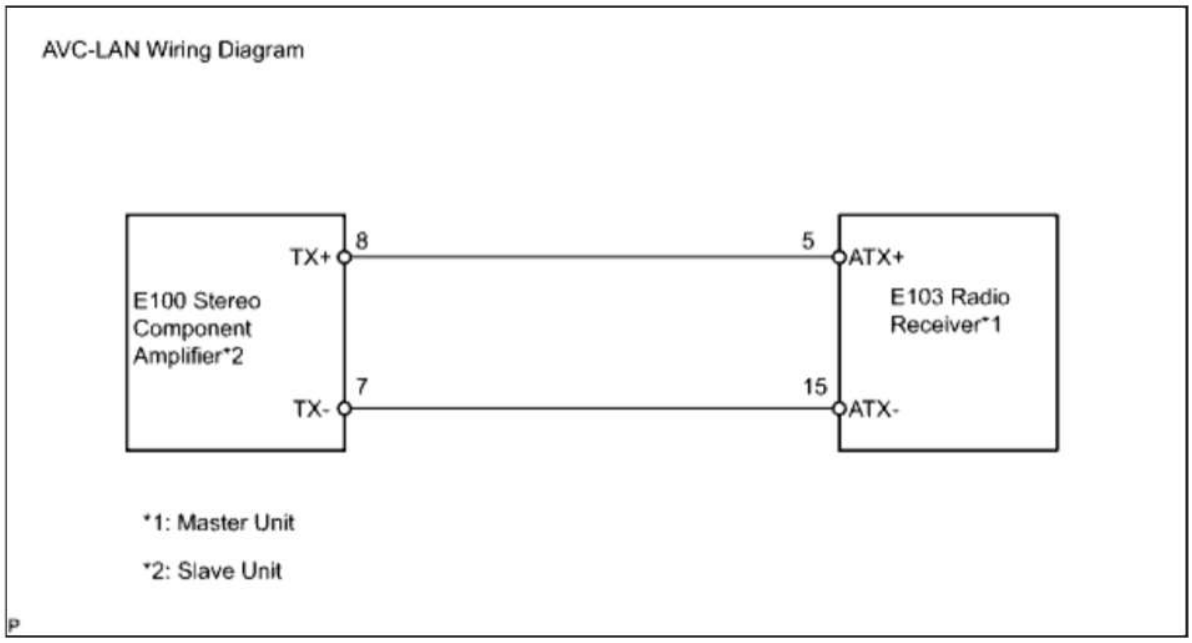
(a) Referring to the following AVC-LAN Wiring Diagram, check the AVC-LAN circuit between the stereo component amplifier and the component shown by the sub-code.

(1) Disconnect all connectors between the stereo component amplifier and the component shown by the sub-code.

(2) Check for an open or short in the AVC-LAN circuit between the stereo component amplifier and the component shown by the sub-code.

OK:

There is no open or short circuit.



NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

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5.	REPLACE COMPONENT SHOWN BY SUB-CODE

(a) Replace the component shown by the sub-code with a known good one and check if the same problem occurs again.

OK:

Same problem does not occur.

NG ▶ REPLACE STEREO COMPONENT AMPLIFIER

OK ▶ END

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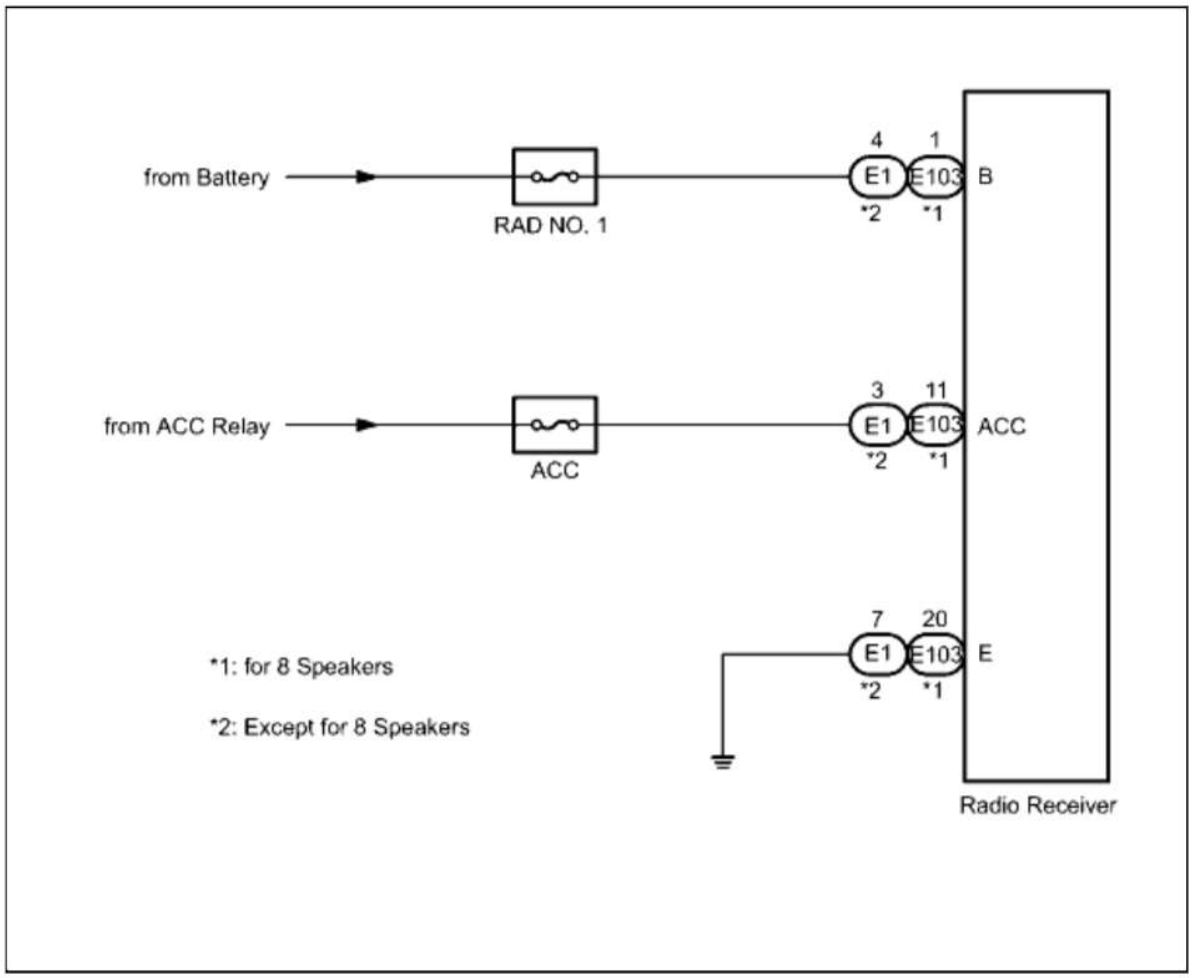
Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CI04GX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Radio Receiver Power Source Circuit (2010 Corolla)		

Radio Receiver Power Source Circuit

DESCRIPTION

This circuit provides power to the radio receiver.

WIRING DIAGRAM



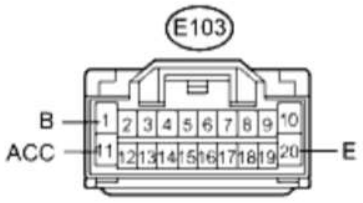
INSPECTION PROCEDURE

PROCEDURE

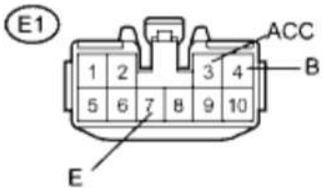
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1.	INSPECT RADIO RECEIVER

Front view of wire harness connector:
(to Radio Receiver (for 8 Speakers))



Front view of wire harness connector: (to Radio Receiver (Except for 8 Speakers))



(a) Disconnect the radio receiver connector.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-20 (E) - Body ground*1	Always	Below 1 Ω
E1-7 (E) - Body ground*2	Always	Below 1 Ω

(c) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E103-1 (B) - E103-20 (E)*1	Always	11 to 14 V
E1-4 (B) - E1-7 (E)*2	Always	11 to 14 V
E103-11 (ACC) - E103-20 (E)*1	Ignition switch ACC	11 to 14 V
E1-3 (ACC) - E1-7 (E)*2	Ignition switch ACC	11 to 14 V

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- *1: for 8 Speakers
- *2: Except for 8 Speakers

NG	REPAIR OR REPLACE HARNESS OR CONNECTOR
OK	PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE



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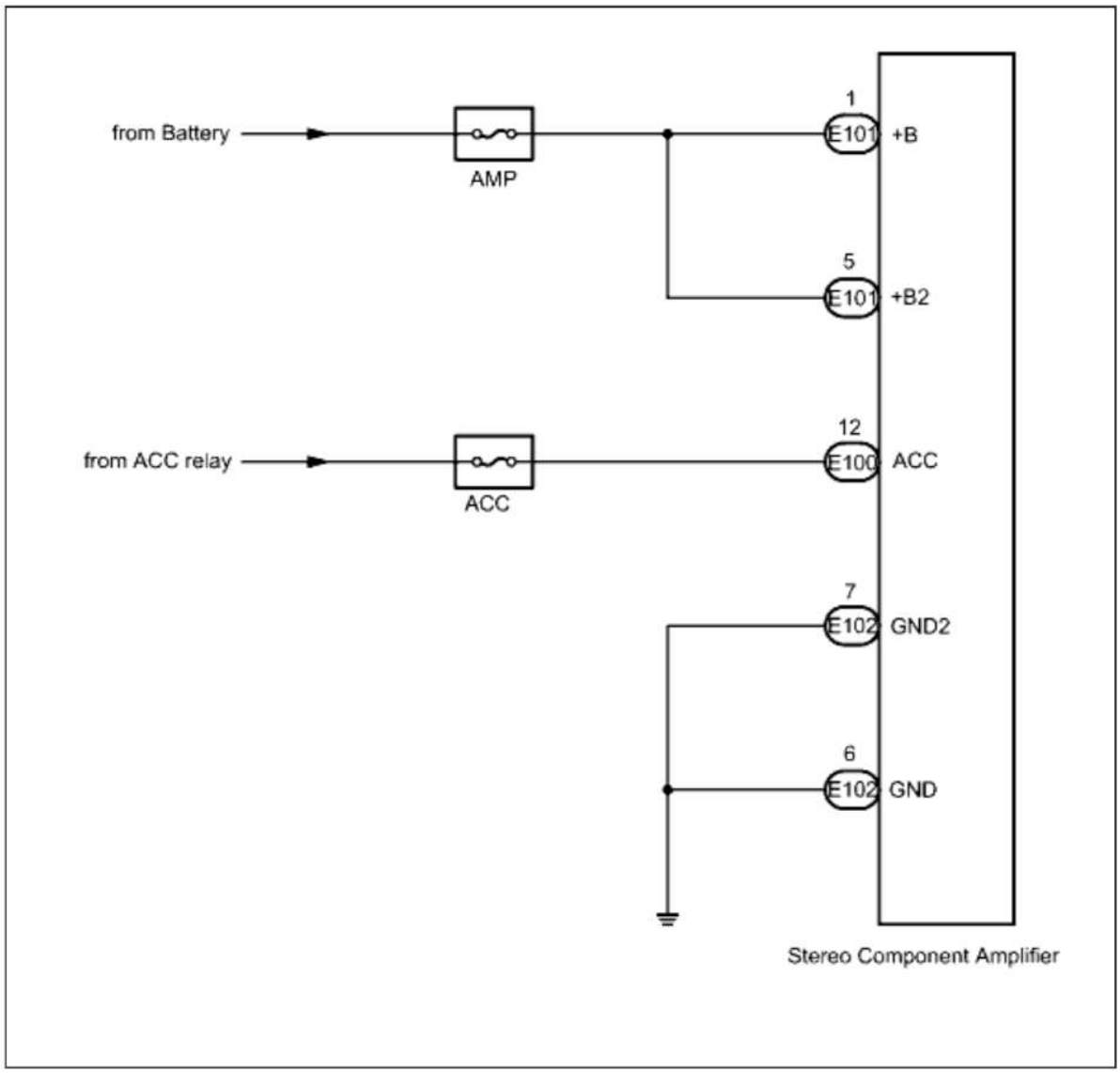
Last Modified: 3-10-2010	6.4 J	**From:** 200901
Model Year: 2010	**Model:** Corolla	**Doc ID:** RM0000012CJ03DX
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: Stereo Component Amplifier Power Source Circuit (2010 Corolla)		

Stereo Component Amplifier Power Source Circuit

DESCRIPTION

This circuit provides power to the stereo component amplifier.

WIRING DIAGRAM

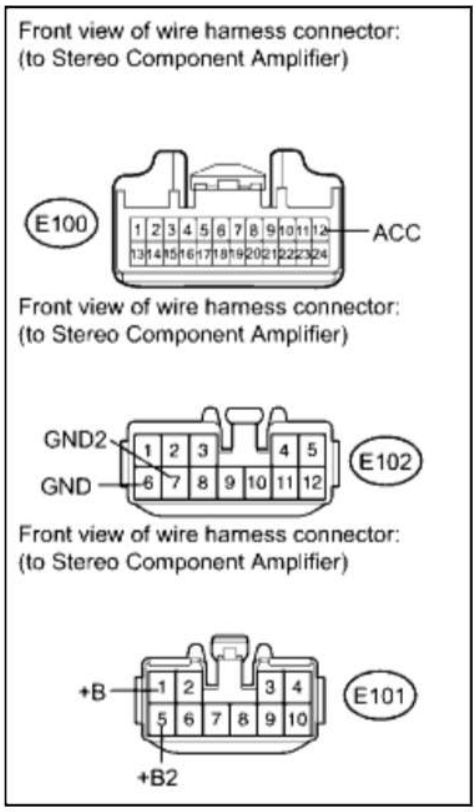


INSPECTION PROCEDURE

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PROCEDURE

1.	**INSPECT STEREO COMPONENT AMPLIFIER**



(a) Disconnect the stereo component amplifier connectors.

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E102-6 (GND) - Body ground	Always	Below 1 Ω
E102-7 (GND2) - Body ground	Always	Below 1 Ω

(c) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E101-1 (+B) - E102-6 (GND)	Always	11 to 14 V
E101-5 (+B2) - E102-6 (GND)	Always	11 to 14 V
E100-12 (ACC) - E102-6 (GND)	Ignition switch ACC	11 to 14 V

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NG	REPAIR OR REPLACE HARNESS OR CONNECTOR
OK	PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE



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