

COMBINATION METER

PROBLEM SYMPTOMS TABLE

7105L-06

Warning Lights:

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

Indicator Lights:

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

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

Meter Gauges:

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

Buzzer:

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

Clock:

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

INSTRUMENT PANEL SAFETY PAD SUB-ASSY

7105H-03

PRECAUTION

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

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

REPLACEMENT

HINT:

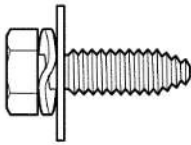
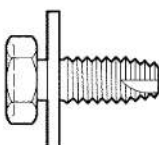
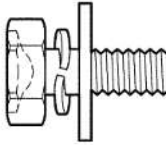
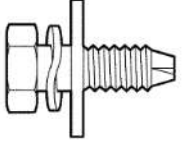
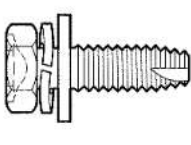
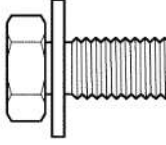
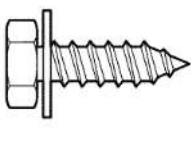
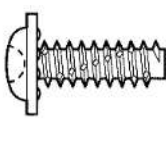
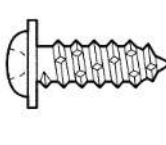
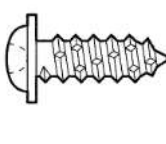
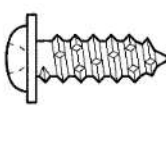
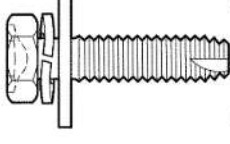
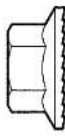
- COMPONENTS: See page 71-9.
- Installation is in the reverse order of removal.

1. TABLE OF BOLT, SCREW AND NUT

HINT:

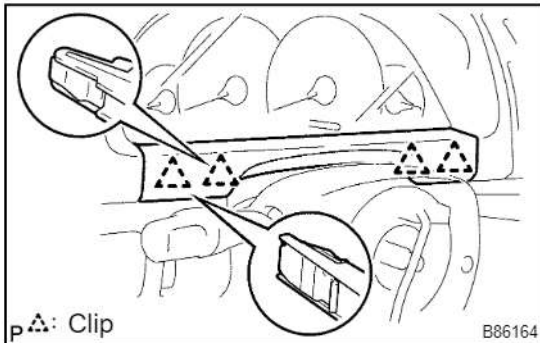
All bolts, screws and nuts relevant to installing and removing the instrument panel are shown along with their alphabet code in the table below.

mm (in.) (L = Length)

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

P

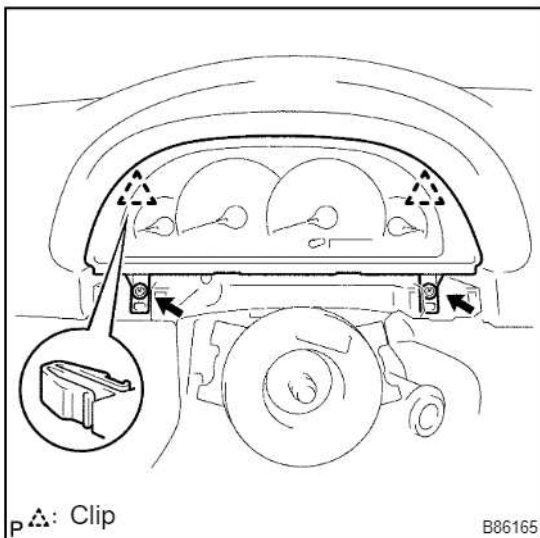
2. DISCONNECT BATTERY NEGATIVE TERMINAL (SEE PAGE 60-1)
3. REMOVE STEERING WHEEL COVER LOWER NO.2
4. REMOVE STEERING WHEEL COVER LOWER NO.3
5. REMOVE HORN BUTTON ASSY (SEE PAGE 60-25)
6. REMOVE STEERING WHEEL ASSY (SEE PAGE 50-9 or 50-21)
SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)



7. REMOVE INSTRUMENT CLUSTER FINISH PANEL

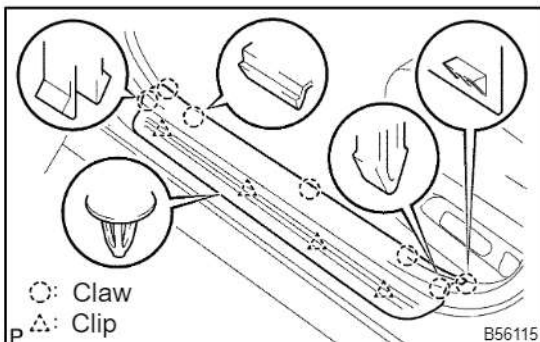
- (a) Disengage the 4 clips and remove the instrument cluster finish panel.

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



11. REMOVE COMBINATION METER ASSY

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



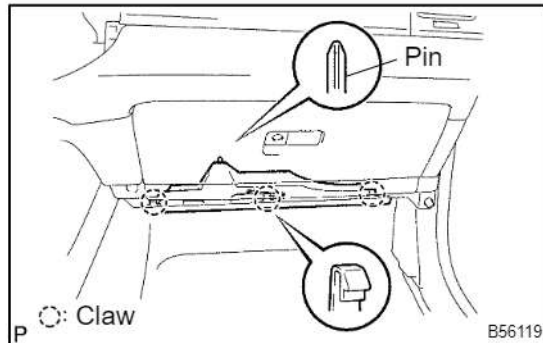
12. REMOVE FRONT DOOR SCUFF PLATE LH

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

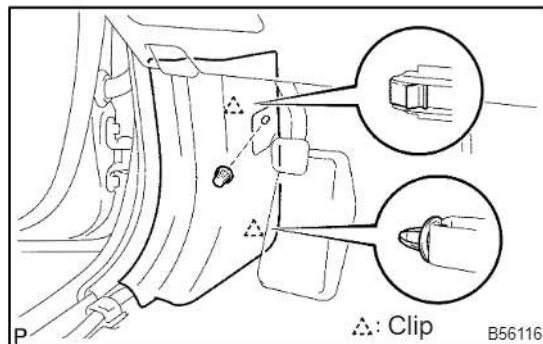
13. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

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

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

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

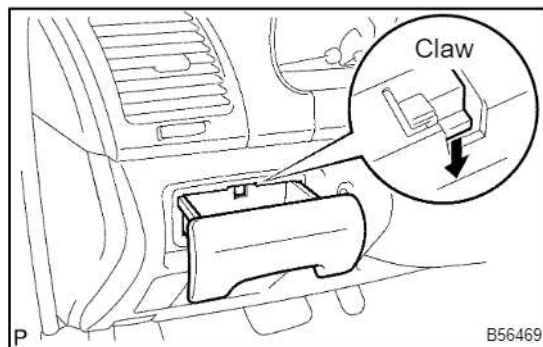
**15. REMOVE COWL SIDE TRIM SUB-ASSY LH**

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

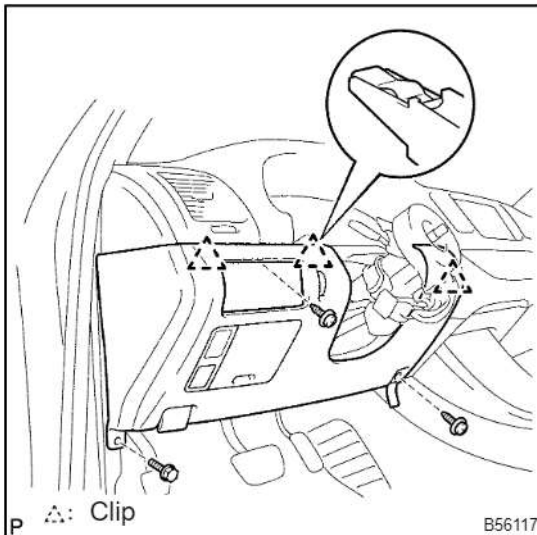
16. REMOVE COWL SIDE TRIM SUB-ASSY RH

HINT:

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

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

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

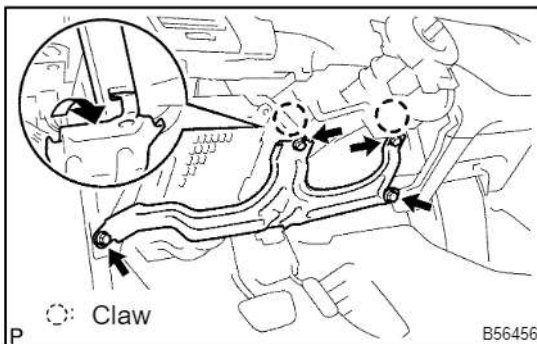
**18. REMOVE INSTRUMENT PANEL SUB-ASSY UPPER**

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

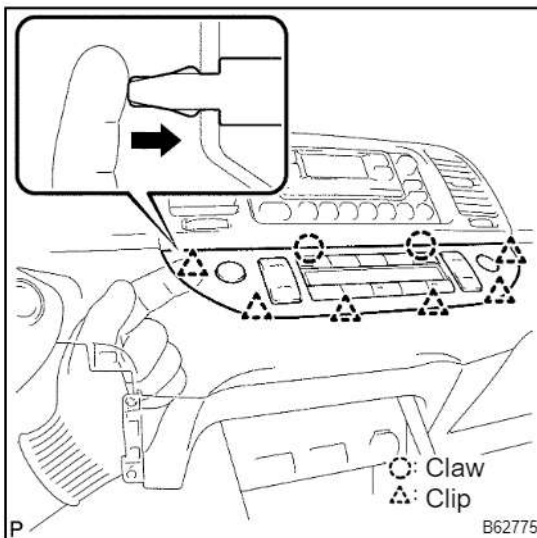
HINT:

Tape the screwdriver tip before use.

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

**19. REMOVE INSTRUMENT PANEL INSERT LOWER**

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

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

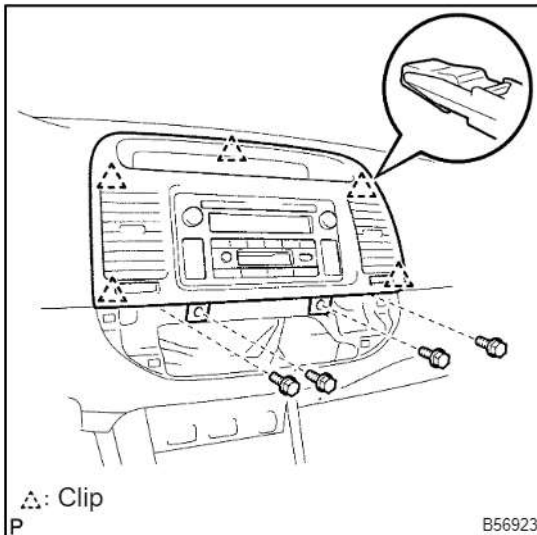
- (a) Put in a hand from the position indicated in the illustration and push out the clip with fingers.
- (b) Remove the remaining clips, disengage the claws, and then take off the air conditioner control assembly.

NOTICE:

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

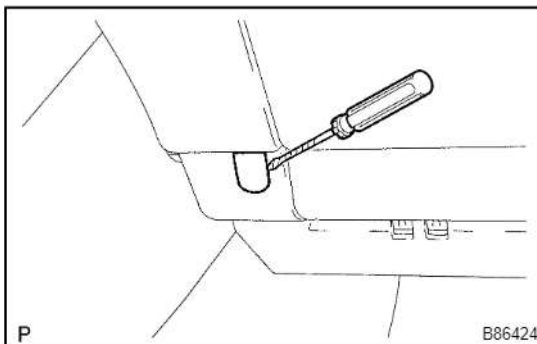
21. REMOVE AIR CONDITIONING PANEL SUB-ASSY (MANUAL AIR CONDITIONING)**HINT:**

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



22. REMOVE INSTRUMENT CLUSTER FINISH PANEL SUB-ASSY CENTER

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

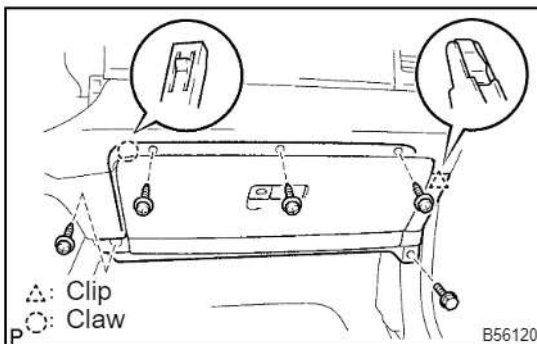


23. REMOVE GLOVE COMPARTMENT DOOR PAD

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

HINT:

Tape the screwdriver tip before use.

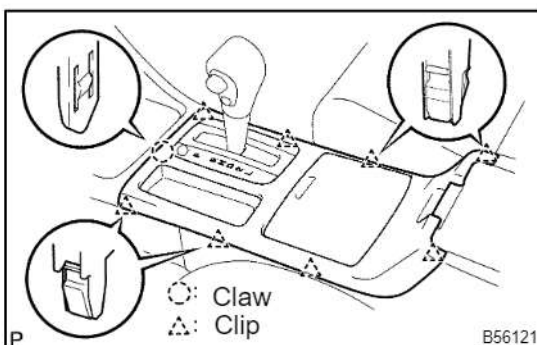


24. REMOVE INSTRUMENT PANEL SUB-ASSY LOWER

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

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

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

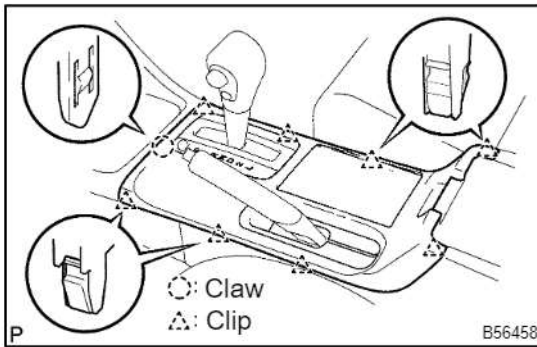


26. REMOVE CONSOLE PANEL UPPER REAR

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

HINT:

Set the shift lever in the N position.

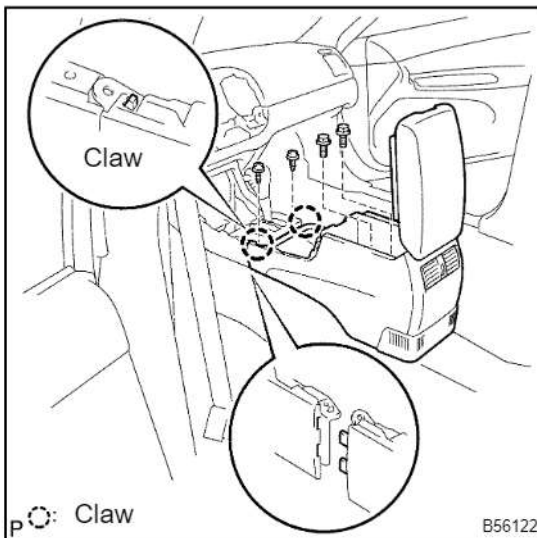


- (b) Hand parking brake:
Using a moulding remover, disengage the claw and 8 clips and remove the console panel upper rear.

HINT:

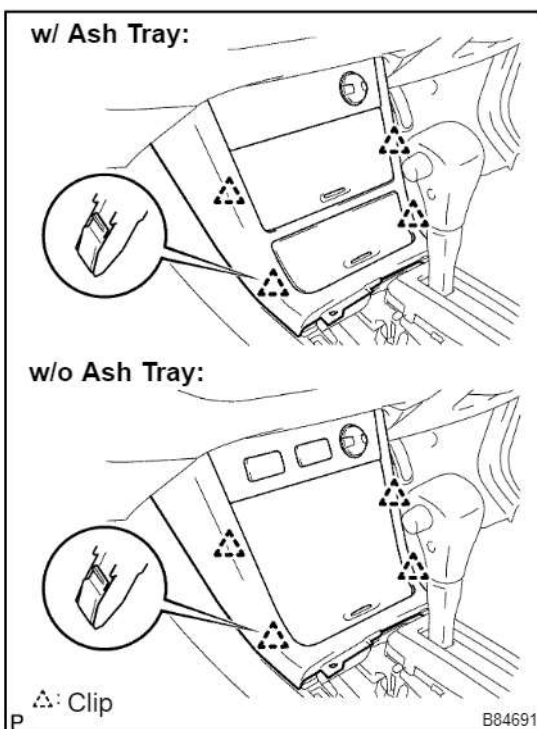
Set the shift lever in the N position (Automatic transaxle).

27. REMOVE CONSOLE BOX CARPET



28. REMOVE RR CONSOLE BOX

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

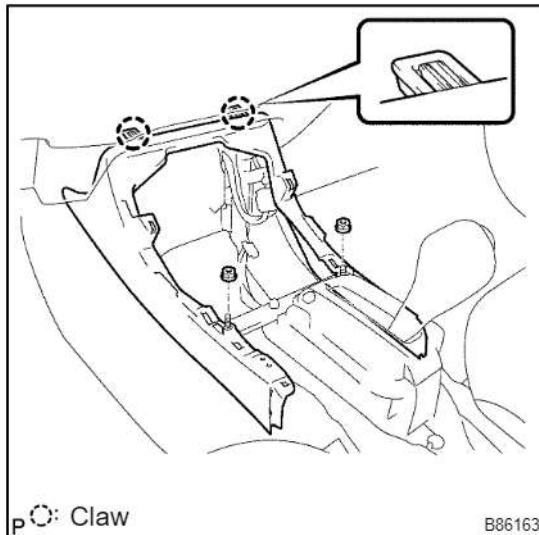


29. REMOVE CONSOLE PANEL SUB-ASSY

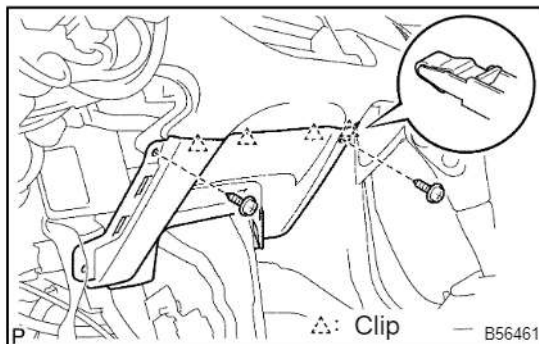
- (a) Using a moulding remover, disengage the 4 clips.
- (b) Disconnect the connectors and remove the console panel sub-assy.

HINT:

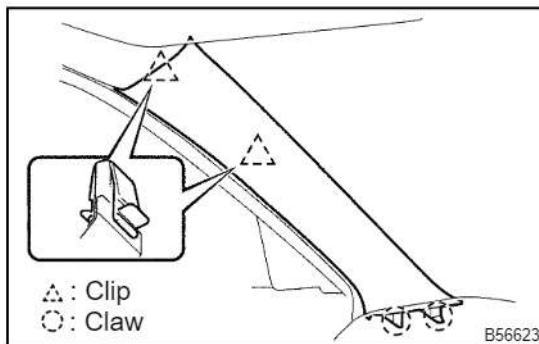
Set the shift lever in the N position (Automatic transaxle).

**30. REMOVE CONSOLE BOX FRONT**

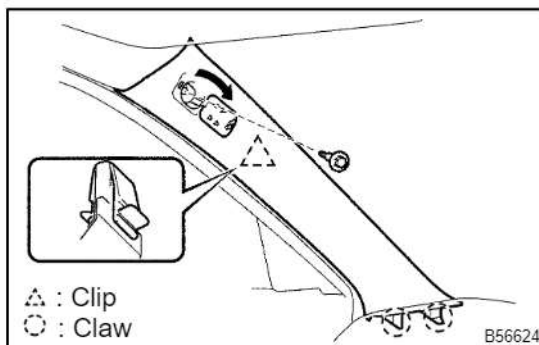
- (a) Remove the 2 nuts <M>.
- (b) Disengage the 2 claws and remove the console box front.

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

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

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

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

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

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

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

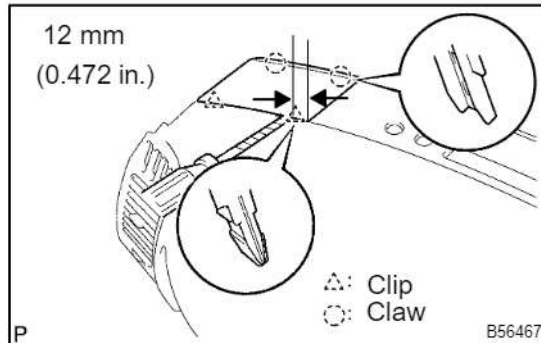
HINT:

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

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

HINT:

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

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

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

HINT:

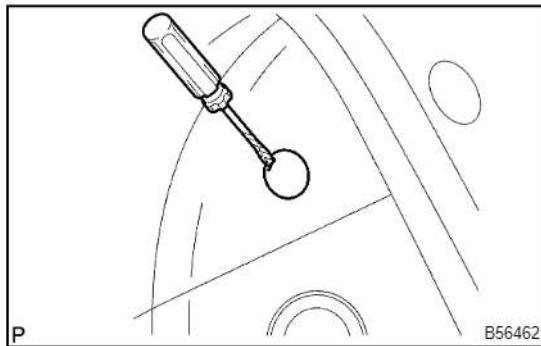
Tape the screwdriver tip before use.

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

37. REMOVE INSTRUMENT PANEL SPEAKER PANEL SUB-ASSY

HINT:

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

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

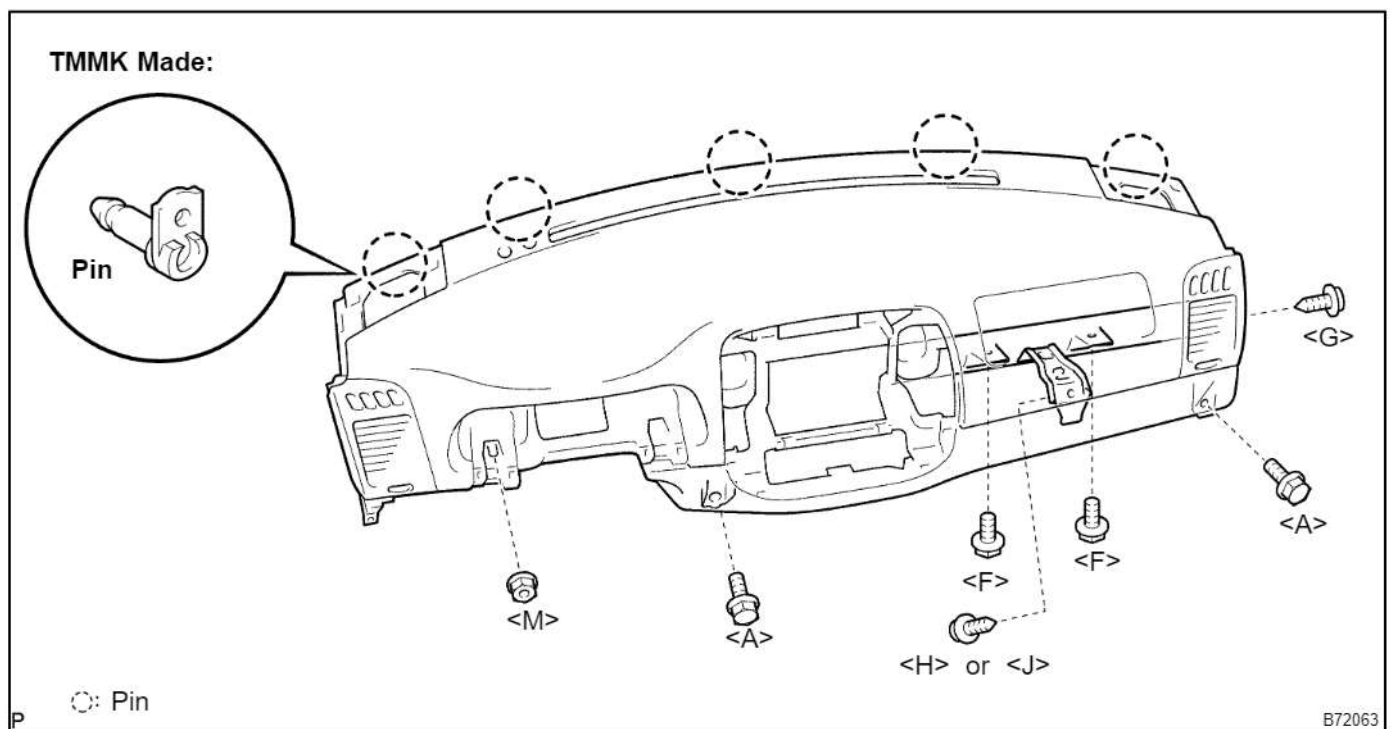
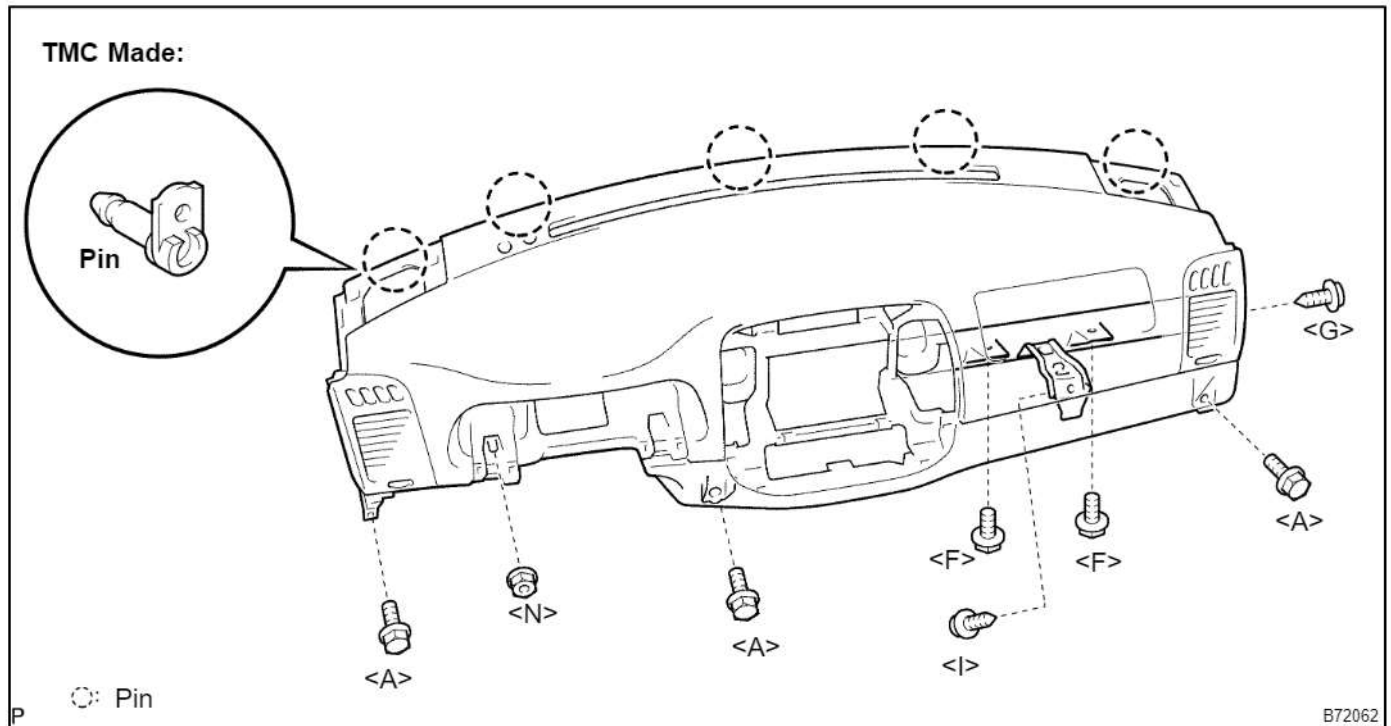
- (a) Using a screwdriver, remove the instrument panel safety pad cap.

HINT:

Tape the screwdriver tip before use.

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

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



42. REMOVE INSTRUMENT PANEL REGISTER ASSY NO.2

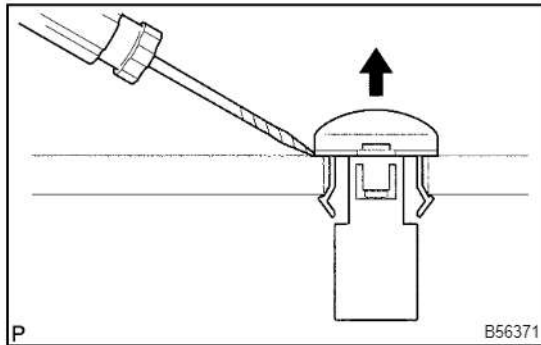
- (a) Disengage the 3 clips and 3 claws.
- (b) Remove the instrument panel register assy No.2.

43. REMOVE INSTRUMENT PANEL REGISTER ASSY NO.1

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

44. REMOVE GLOVE BOX LAMP ASSY

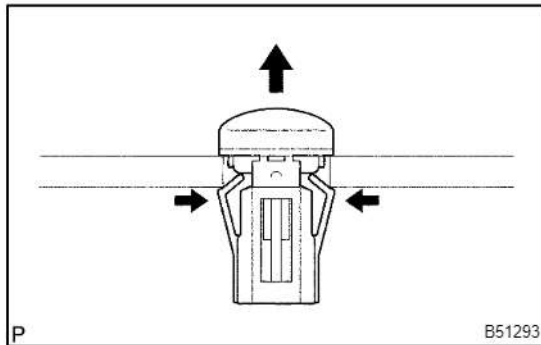
- (a) Disengage the 4 claws and remove the glove box lamp assy.

**45. REMOVE AUTOMATIC LIGHT CONTROL SENSOR**

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

HINT:

Tape the screwdriver tip before use.

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

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

NOTICE:

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

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

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

49. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.1

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

50. REMOVE DEFROSTER NOZZLE ASSY

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

51. REMOVE HEATER TO REGISTER DUCT NO.1

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

52. REMOVE HEATER TO REGISTER DUCT NO.3

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

53. REMOVE HEATER TO REGISTER DUCT NO.2

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

54. REMOVE DEFROSTER NOZZLE GARNISH NO.1

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

55. REMOVE INSTRUMENT PANEL PIN NO.1

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

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

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

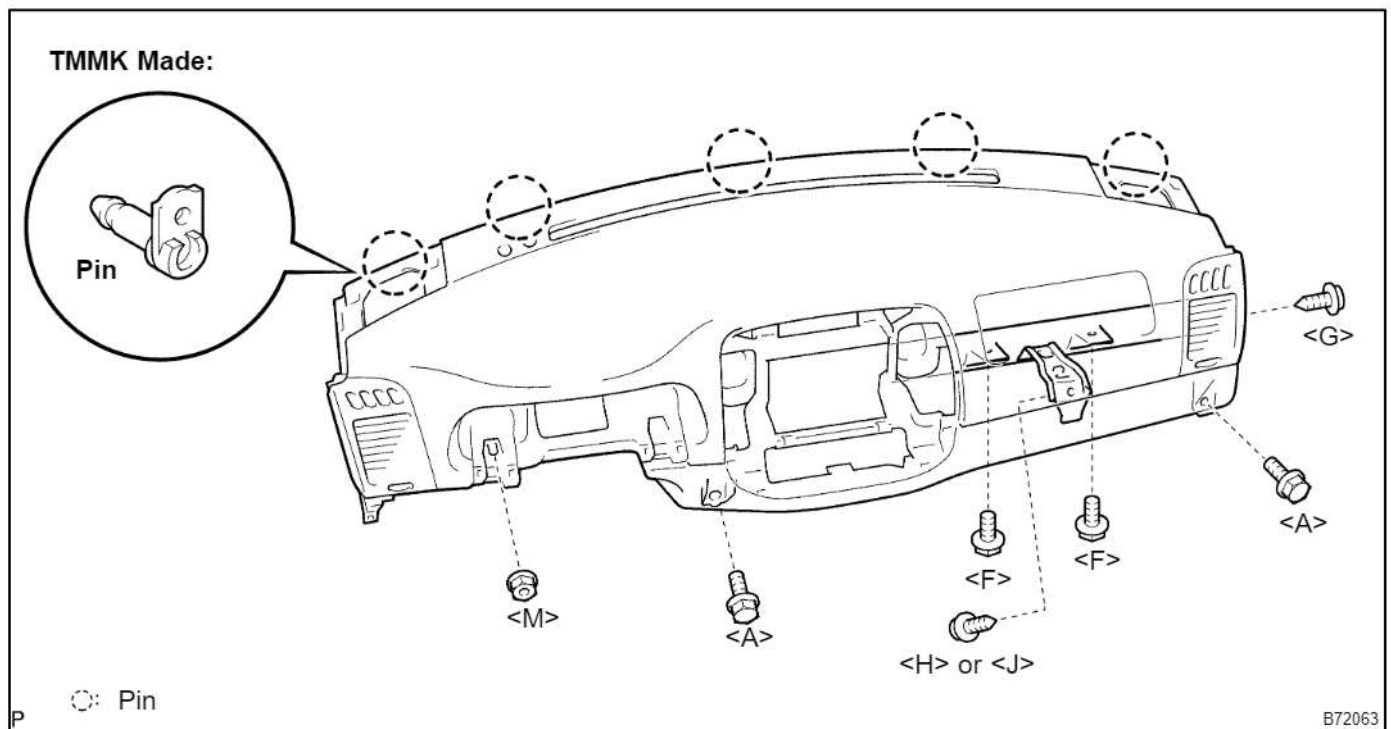
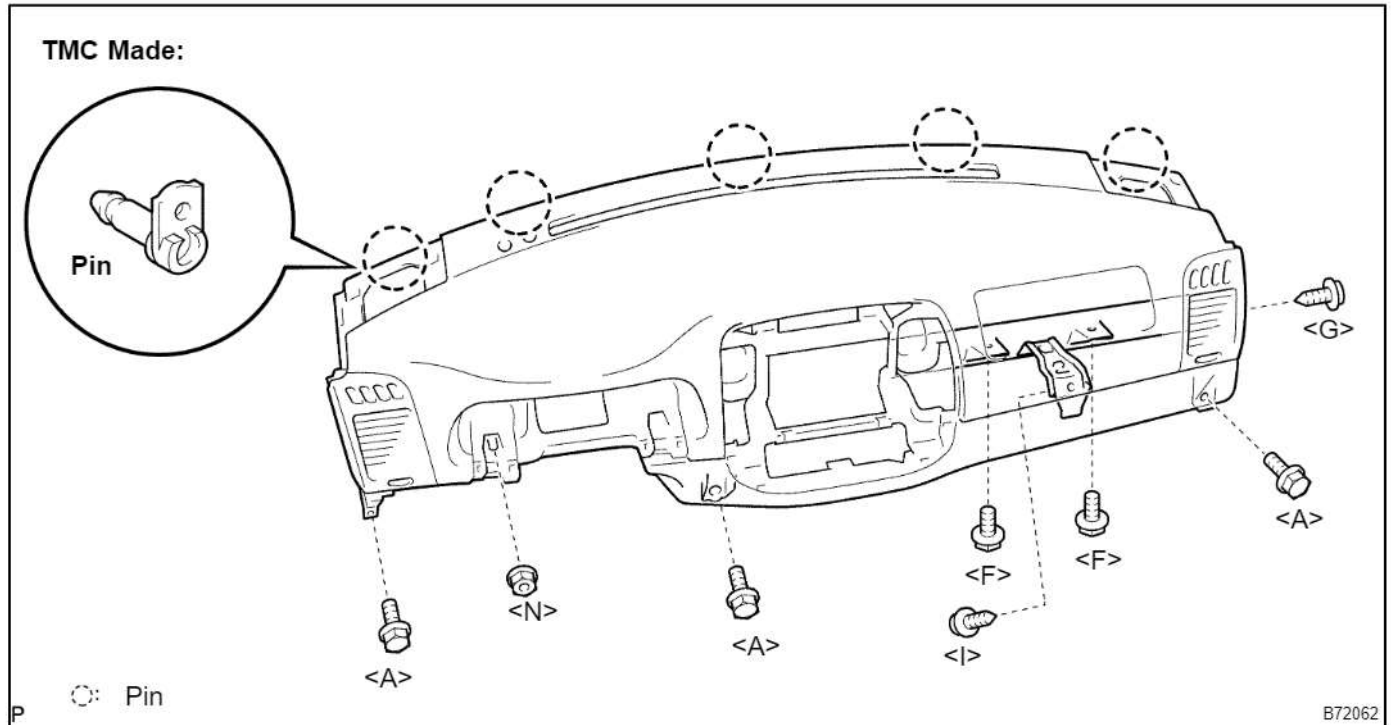
Torque:**Bolt <F> : 20 N·m (204 kgf·cm, 15 ft·lbf)**

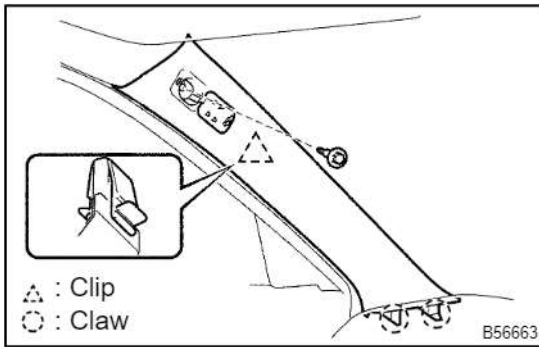
(d) TMMK made:

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

Torque :

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



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

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

Torque:**7.5 to 20 N·m (77 to 204 kgf·cm, 67 in·lbf to 14 ft·lbf)****60. INSTALL FRONT PILLAR GARNISH RH (W/ CURTAIN SHIELD AIR BAG)****HINT:**

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

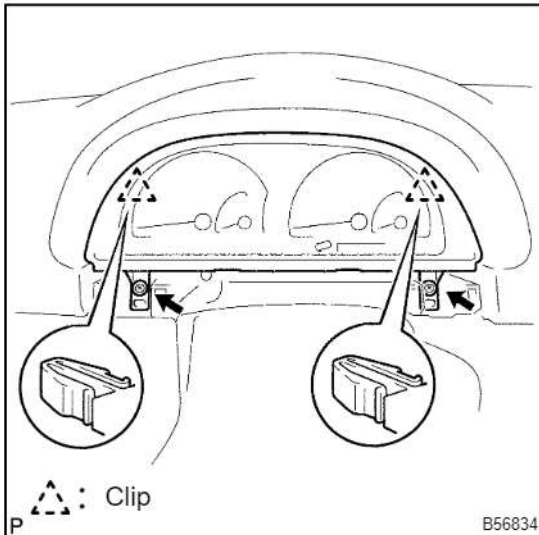
- 61. CENTER SPIRAL CABLE (SEE PAGE 60-34)**
- 62. INSTALL STEERING WHEEL ASSY (SEE PAGE 50-9 or 50-21)**
- 63. INSTALL HORN BUTTON ASSY (SEE PAGE 60-25)**
- 64. INSPECT HORN BUTTON ASSY (SEE PAGE 60-17)**
- 65. INSPECT SRS WARNING LIGHT (SEE PAGE 05-1456)**

COMBINATION METER ASSY OVERHAUL

7105J-03

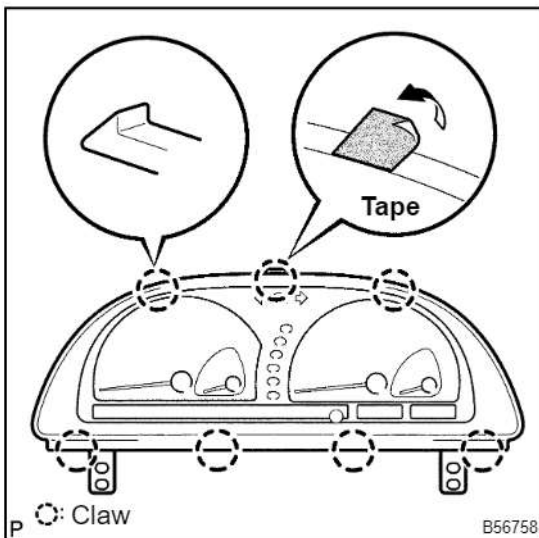
HINT:

- COMPONENTS: See page 71-9.
 - Installation is in the reverse order of removal.
1. REMOVE INSTRUMENT CLUSTER FINISH PANEL (SEE PAGE 71-16)



2. REMOVE COMBINATION METER ASSY

- (a) Remove the 2 screws and disengage the 2 clips.
- (b) Disconnect the connectors and remove the combination meter assy.



3. REMOVE COMBINATION METER GLASS

- (a) Reverse the combination meter and remove the 2 screws.
- (b) Remove the tape.
- (c) Disengage the 7 claws and remove the combination meter glass.

ON-VEHICLE INSPECTION

1. INSPECT SPEEDOMETER

(a) Check the operation.

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

USA (mph):

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

CANADA (km/h):

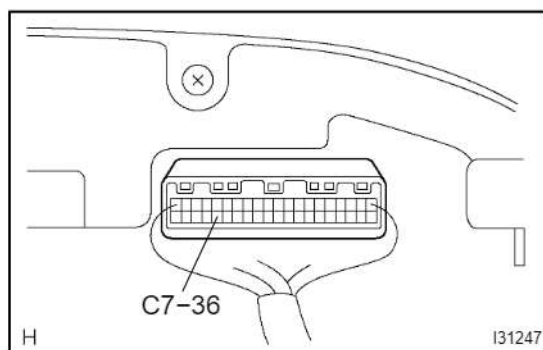
Standard indication	Allowable range
20 km/h	17.5 to 21.5 km/h
40 km/h	38.0 to 42.0 km/h
60 km/h	58.0 to 63.0 km/h
80 km/h	78.0 to 84.0 km/h
100 km/h	98.5 to 104.5 km/h
120 km/h	119.0 to 125.0 km/h
140 km/h	139.0 to 146.0 km/h
160 km/h	159.0 to 167.0 km/h
180 km/h	179.0 to 188.0 km/h
200 km/h	199.0 to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

NOTICE:

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

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

Reference: Below 0.5 km/h (0.3 mph)



2. INSPECT OUTPUT SIGNAL OF VEHICLE SPEED

(a) Check the input signal wave form.

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

OK:

Signal wave form generates.

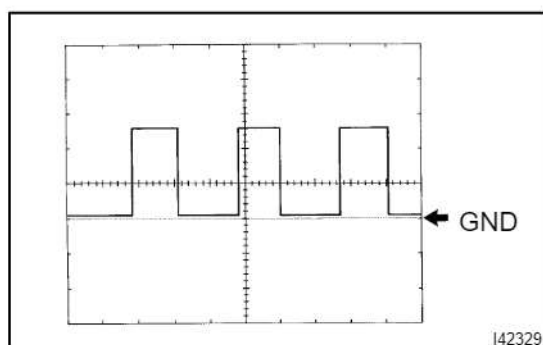
HINT:

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

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

HINT:

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



3. INSPECT TACHOMETER

(a) Check the operation

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

NOTICE:

- Reversing the connection of the tachometer will damage the transistors and diodes inside.
- When removing or installing the tachometer, be careful not to drop or subject it to heavy shocks.

(2) Compare the result of the test and tachometer indications.

DC 13.5 V, 25★C at (77★F)

2AZ-FE:

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

1MZ-FE, 3MZ-FE:

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

Fuel Sender Gauge:



1e-5-1-A

130899

4. INSPECT FUEL RECEIVER GAUGE

(a) Inspect the circuit.

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

Standard:

Needle position is EMPTY and FUEL warning light comes on.

5. INSPECT FUEL LEVEL WARNING

(a) Inspect the circuit.

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

Standard:

Needle position is EMPTY and FUEL warning light comes on.

6. INSPECT ENGINE COOLANT TEMPERATURE RECEIVER GAUGE WARNING LIGHT

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

OK:

Needle position: COOL

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

OK:

Needle position: HOT

7. INSPECT SEAT BELT WARNING LIGHT (Driver Side)

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

OK:

Seat belt warning light: Come on

8. INSPECT LOW OIL PRESSURE WARNING LIGHT

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

OK:

Low oil pressure warning light: Come on

9. INSPECT BRAKE WARNING LIGHT

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

OK:

Brake warning light: Come on

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

OK :

Brake fluid level warning light: Come on

10. INSPECT BRAKE FLUID LEVEL WARNING SWITCH

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

OK:

Float up (switch off): No continuity

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

OK:

Float down (switch on): Continuity

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

11. INSPECT SEAT BELT WARNING BUZZER

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

12. INSPECT KEY REMINDER WARNING BUZZER

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

OK :

Warning buzzer sounds

13. INSPECT WASHER LEVEL WARNING SWITCH

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

OK:

Washer level warning light comes on.

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

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

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

HINT:

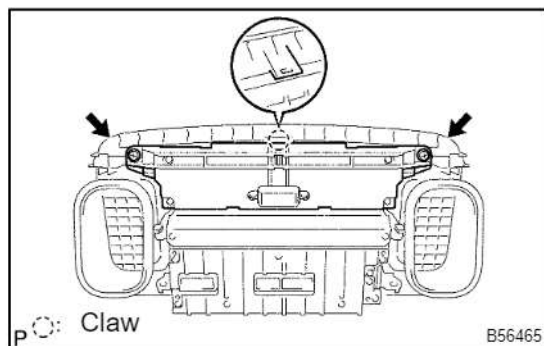
- If the ignition switch is turned off during the reset procedure, reset mode is canceled.
- If the reset switch is turned off during the reset procedure, reset mode is canceled and the display shows the condition prior to the reset procedure.

CLOCK ASSY REPLACEMENT

7105K-03

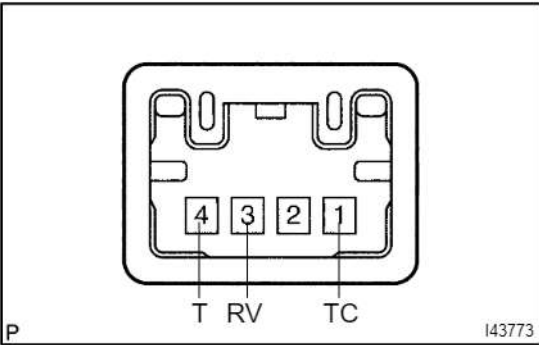
HINT:

- COMPONENTS: See page 71-9.
 - Installation is in the reverse order of removal.
1. REMOVE AIR CONDITIONER CONTROL ASSEMBLY (AUTO AIR CONDITIONING) (SEE PAGE 71-16)
 2. REMOVE AIR CONDITIONING PANEL SUB-ASSY (MANUAL AIR CONDITIONING) (SEE PAGE 71-16)
 3. REMOVE INSTRUMENT CLUSTER FINISH PANEL SUB-ASSY CENTER (SEE PAGE 71-16)



4. REMOVE CLOCK ASSY

- (a) Remove the 2 screws.
- (b) Disengage the claw and remove the clock assy.



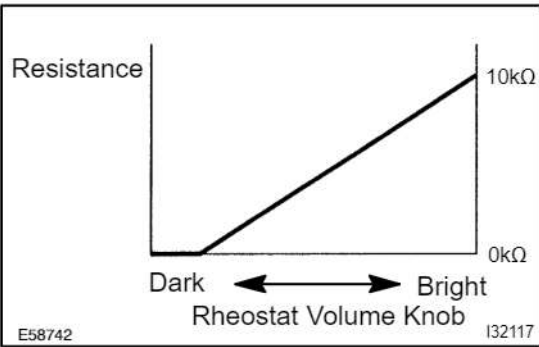
INSPECTION

1. LIGHT CONTROL RHEOSTAT

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

Standard:

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



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

Standard:

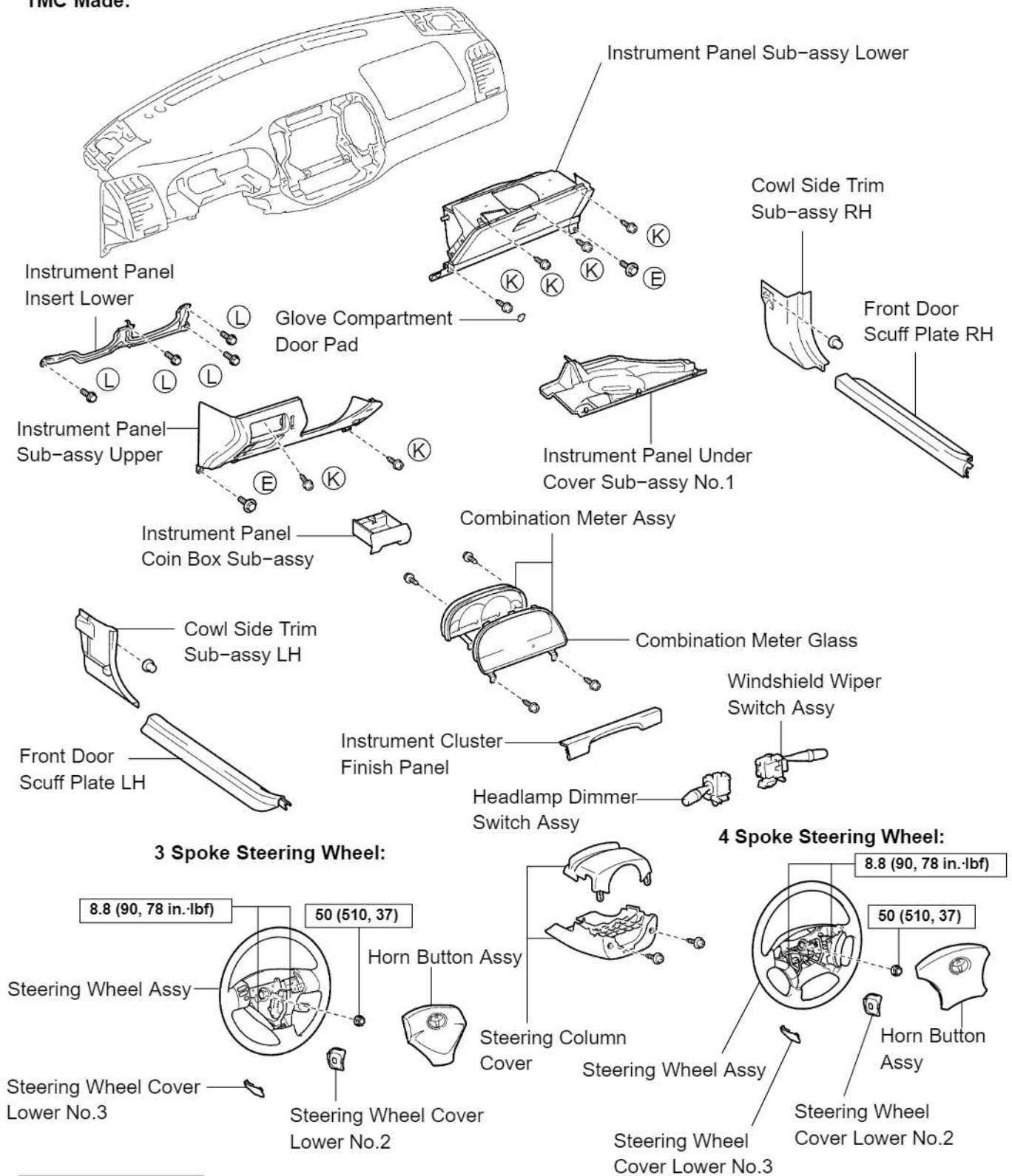
Turn the knob to maximum: Approx. 10 k Ω

Turn the knob to minimum: Approx. 0 k Ω

INSTRUMENT PANEL/METER COMPONENTS

710P3-01

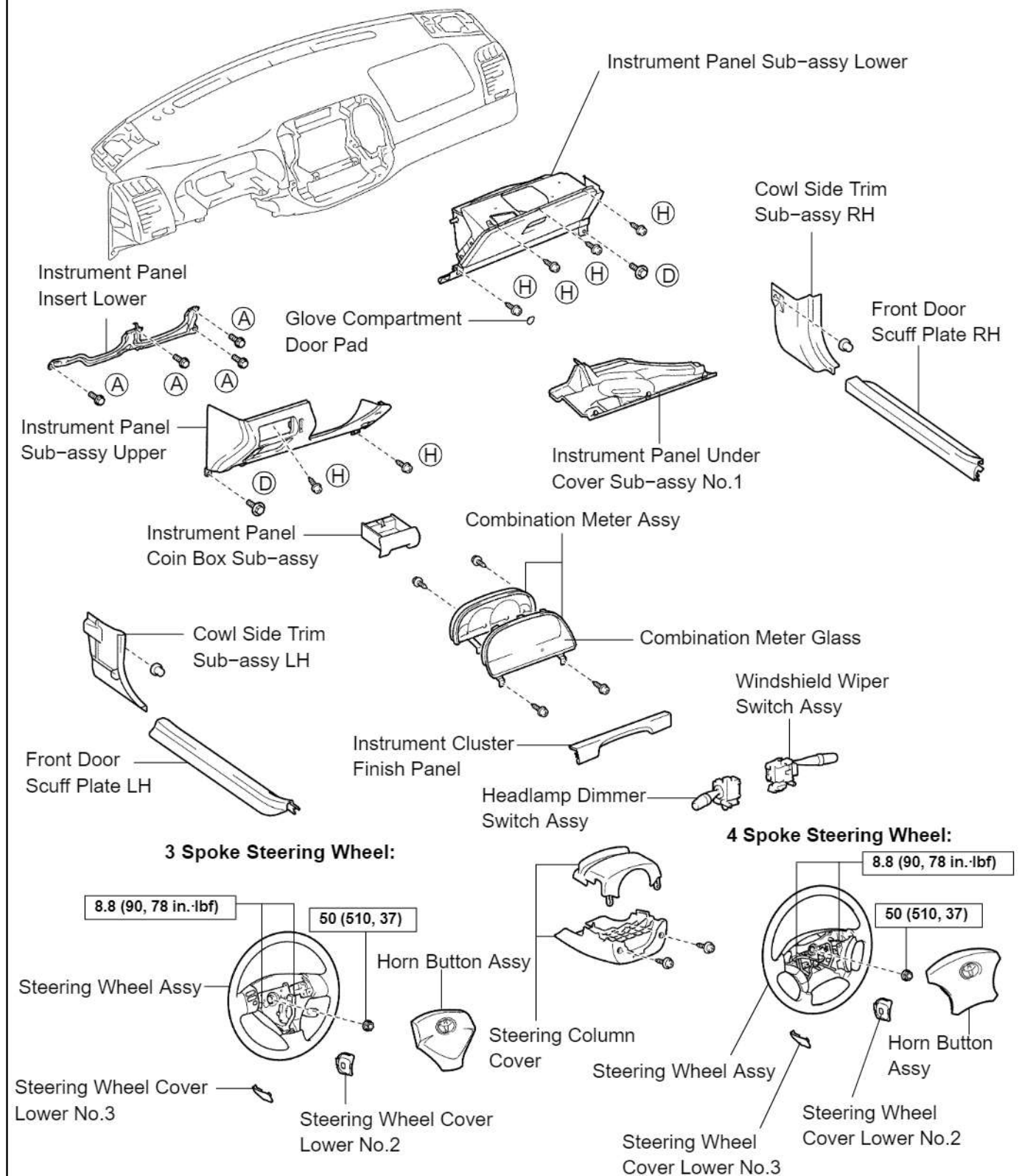
TMC Made:



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

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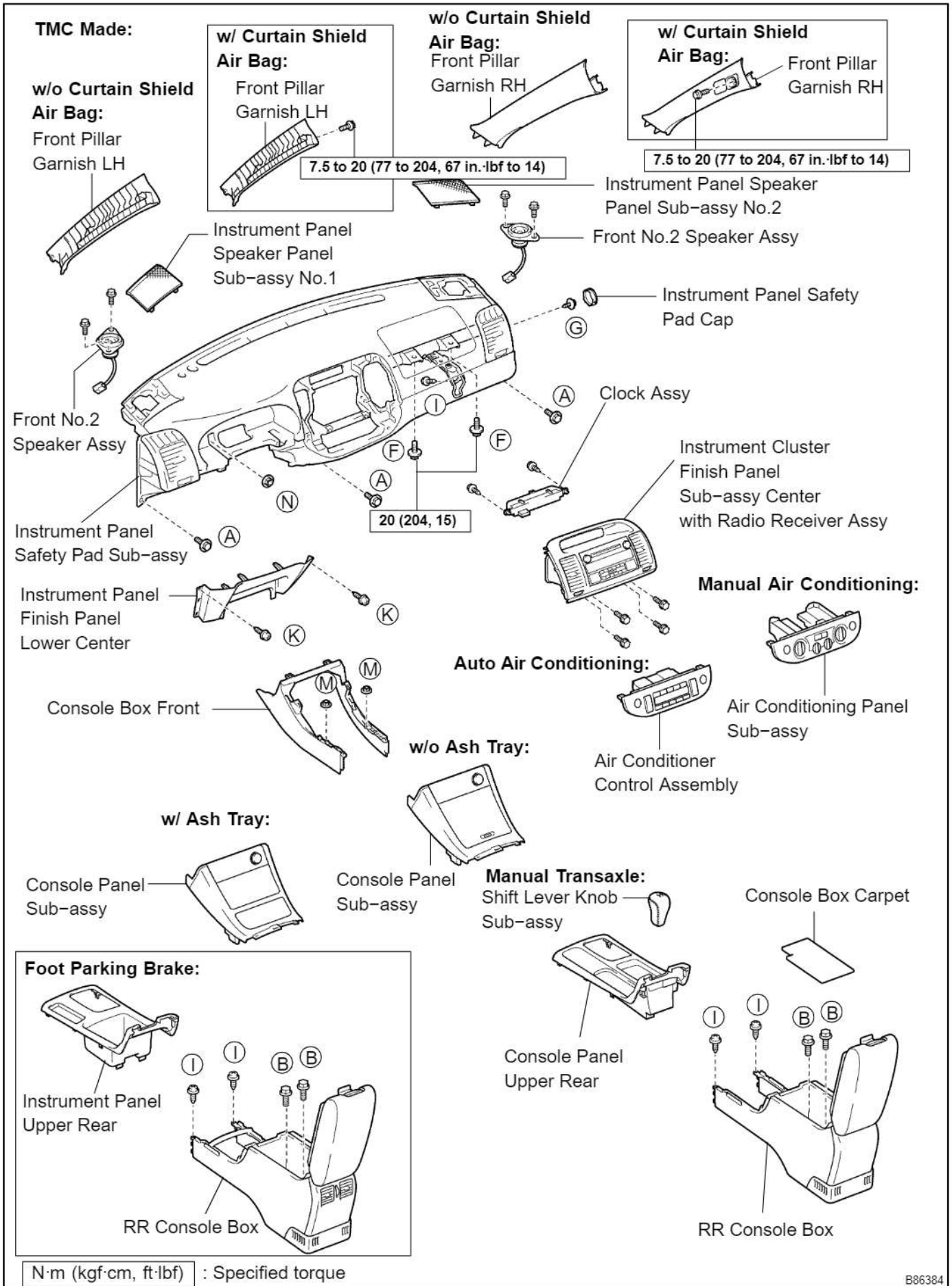
TMMK Made:

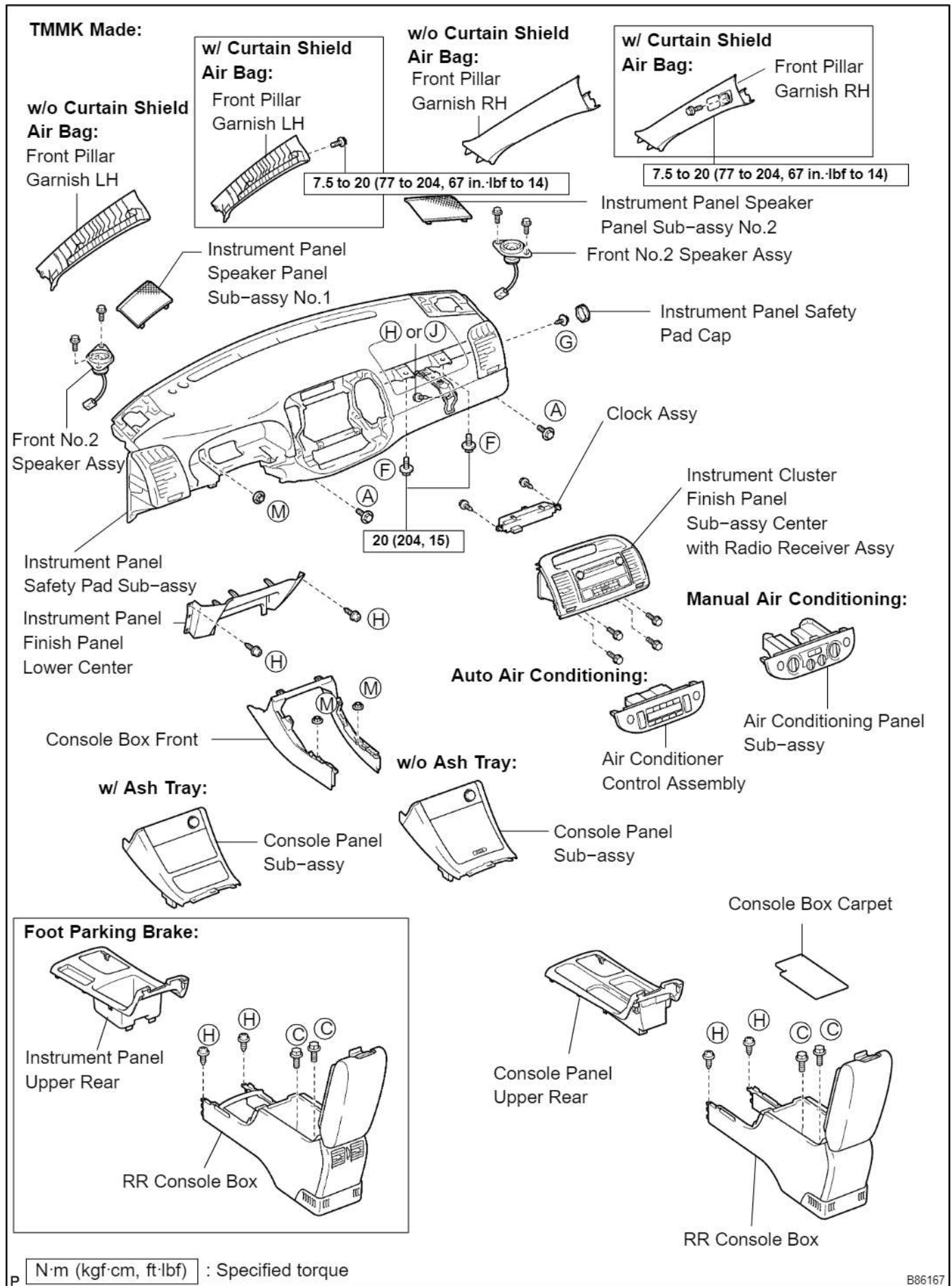


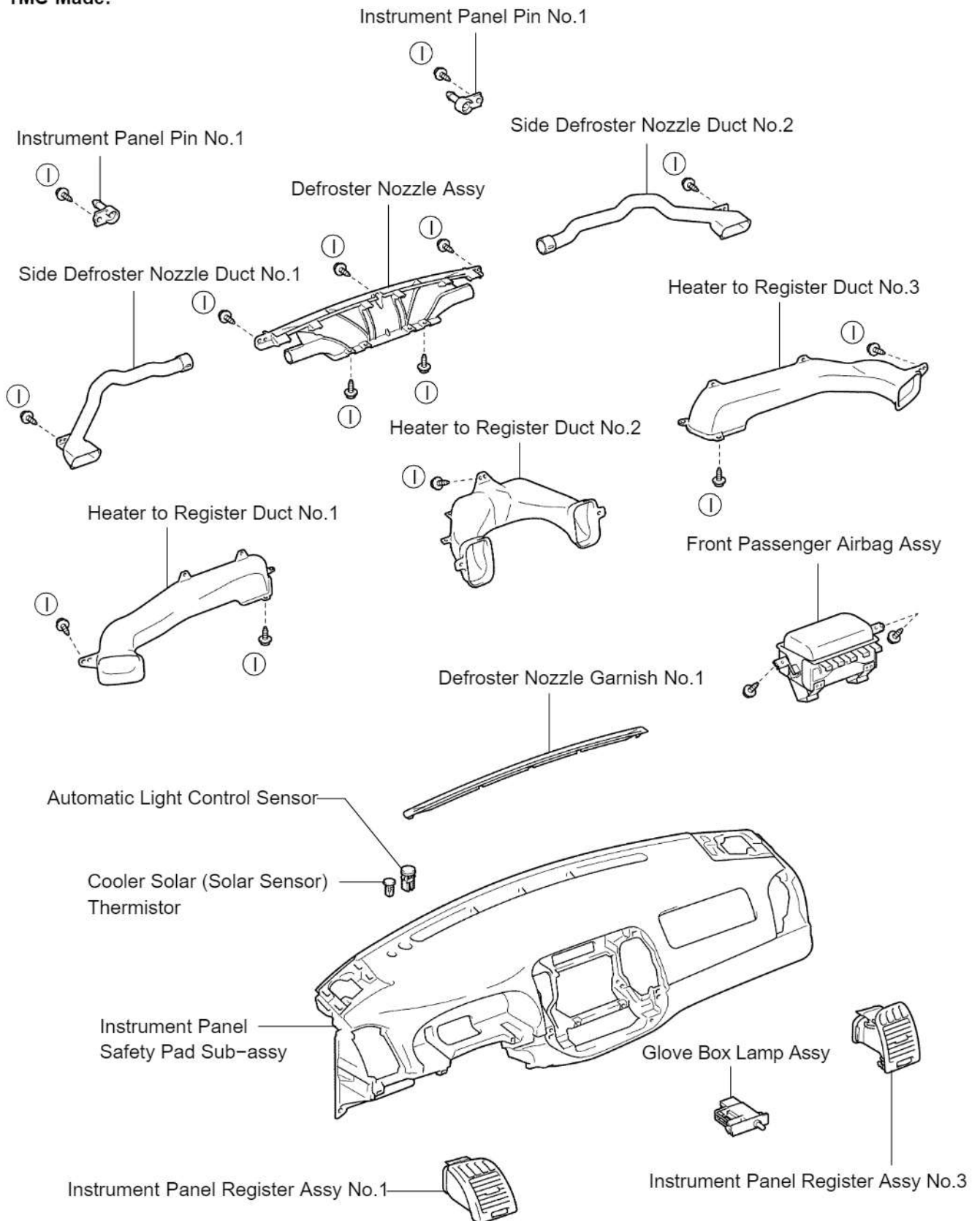
P

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

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TMC Made:

TMMK Made: