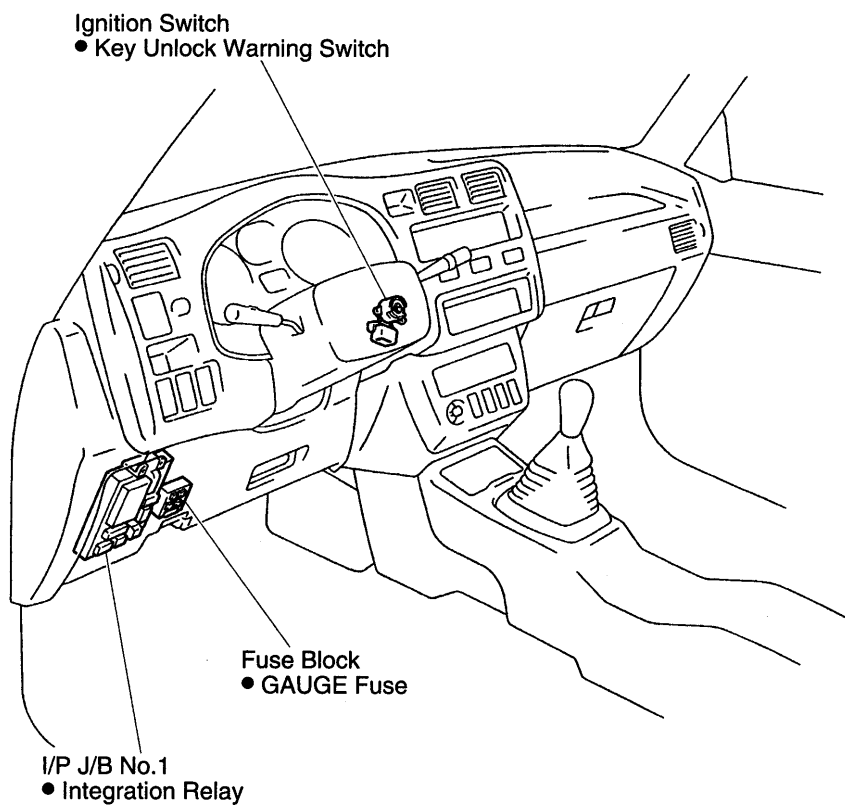


IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH LOCATION

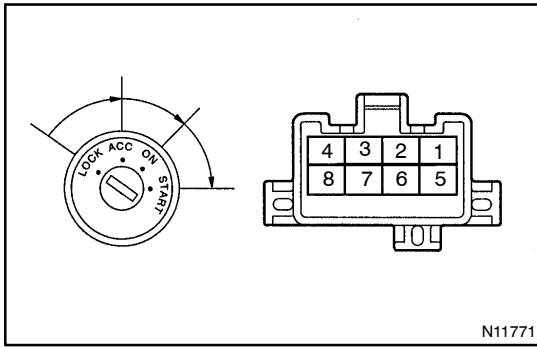
BE0J3-04



I/P J/B: Instrument Panel Junction Block

T

N20867

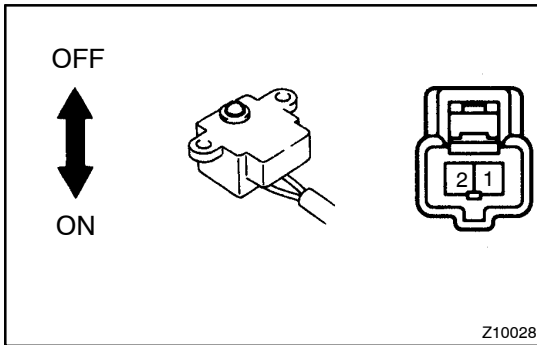


INSPECTION

1. INSPECT IGNITION SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
LOCK	–	No continuity
ACC	2 – 3	Continuity
ON	2 – 3 – 4, 6 – 7	Continuity
START	1–2–4, 6–7–8	Continuity

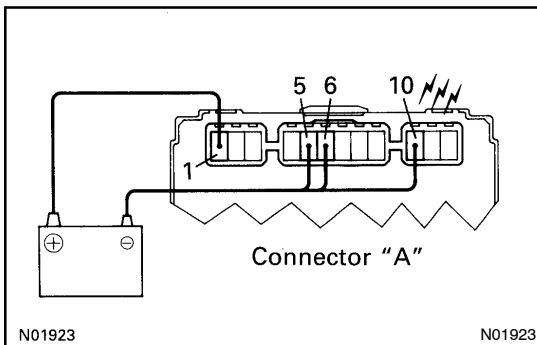
If continuity is not as specified, replace the switch.



2. INSPECT KEY UNLOCK WARNING SWITCH CONTINUITY

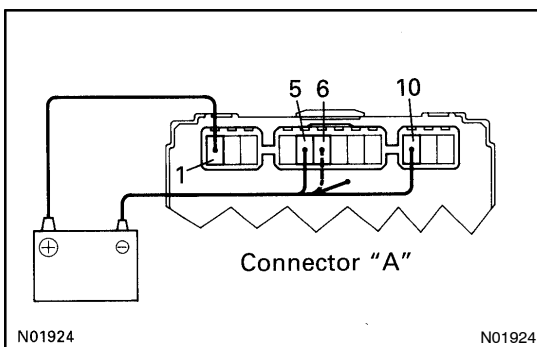
Switch position	Tester connection	Specified condition
SW OFF (Key removed)	–	No continuity
SW ON (Key set)	1 – 2	Continuity

If continuity is not as specified, replace the switch.

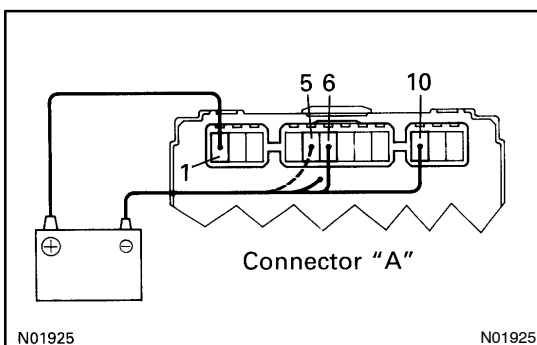


3. Key Unlock Warning System: INSPECT INTEGRATION RELAY OPERATION

- Connect the positive (+) lead from the battery to terminal A1.
- Connect the negative (–) lead from the battery to terminals A5, A6 and A10.
- Check the buzzer sounds.



- Disconnect the negative (–) lead from the battery to terminals A6.
- Check that the buzzer stops sounding.

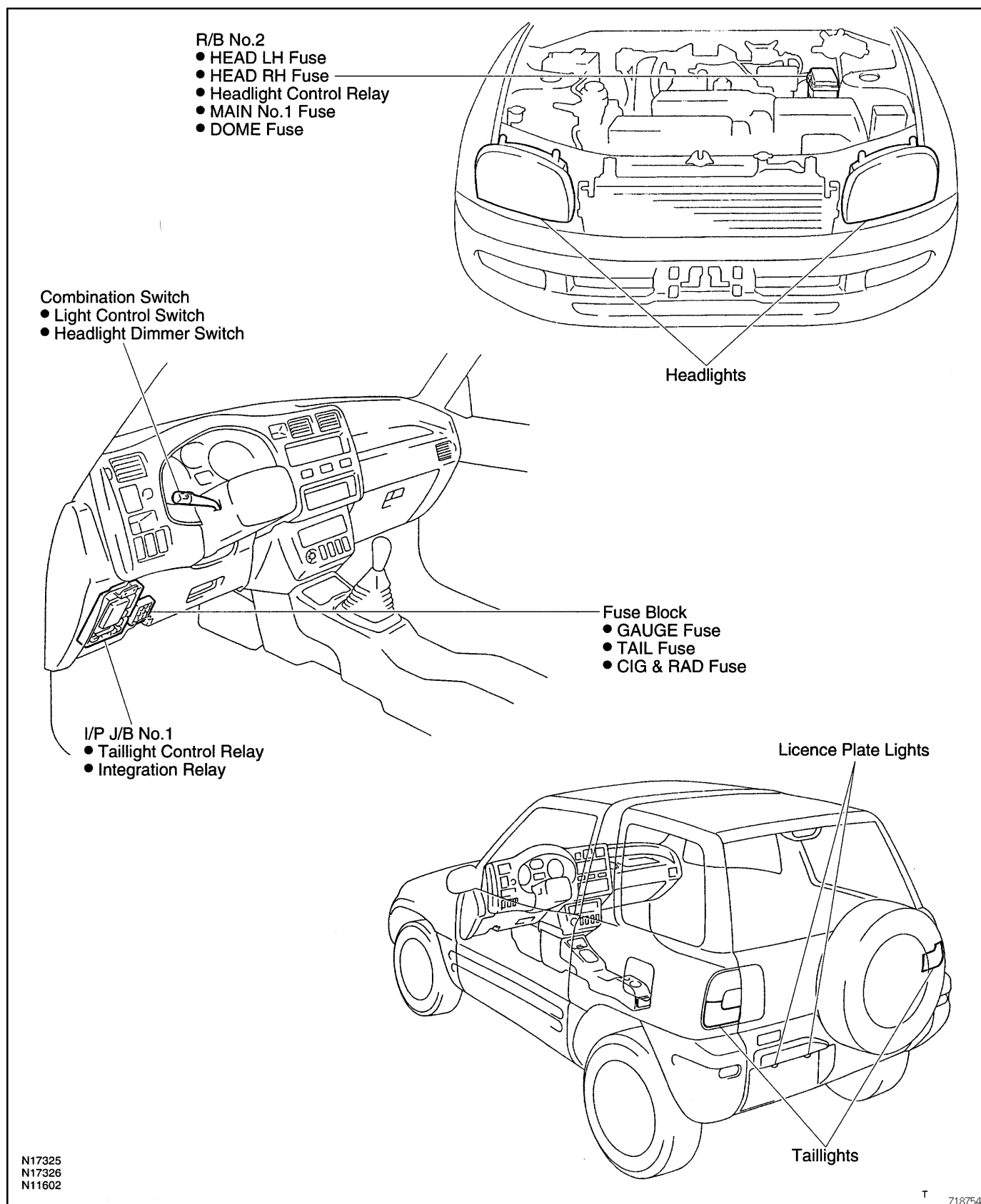


- Connect the negative (–) lead from the battery to terminals A6.
 - Disconnect the negative (–) lead from the battery to terminals A5.
 - Check that the buzzer stops sounding.
- If operation is not as specified, replace the relay.

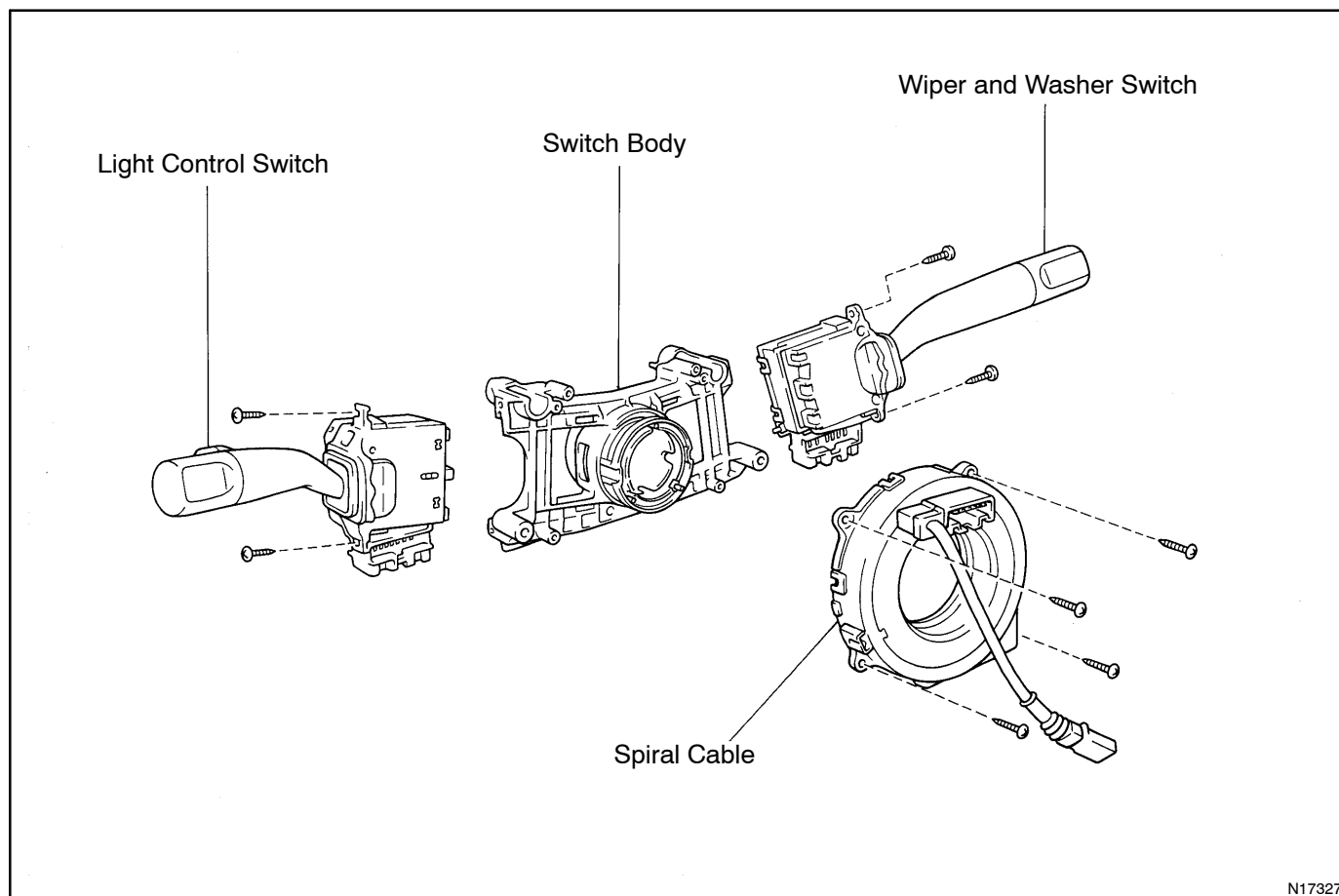
4. **INSPECT INTEGRATION RELAY CIRCUIT (See page [BE-37](#))**
5. **INSPECT DOOR COURTESY SWITCH CONTINUITY (See Page [BE-22](#))**

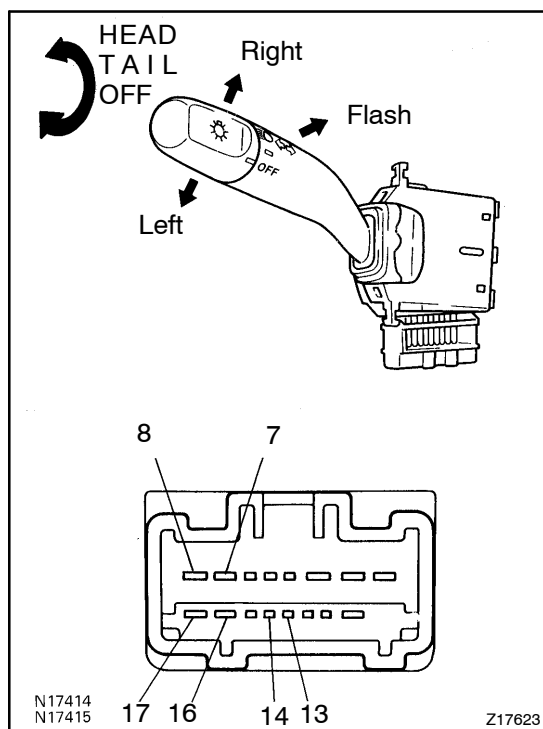
HEADLIGHT AND TAILLIGHT SYSTEM LOCATION

BE0J5-06



COMPONENTS





INSPECTION

1. INSPECT LIGHT CONTROL SWITCH CONTINUITY

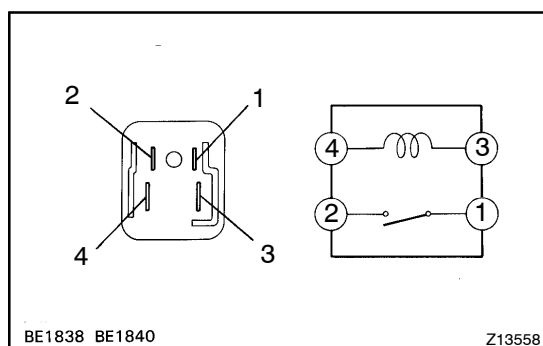
Switch position	Tester connection	Specified condition
OFF	-	No continuity
TAIL	14 - 16	Continuity
HEAD	13 - 14 - 16	Continuity

If continuity is not as specified, replace the switch.

2. INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Flash	7 - 8 - 16	Continuity
Low beam	16 - 17	Continuity
High beam	7 - 16	Continuity

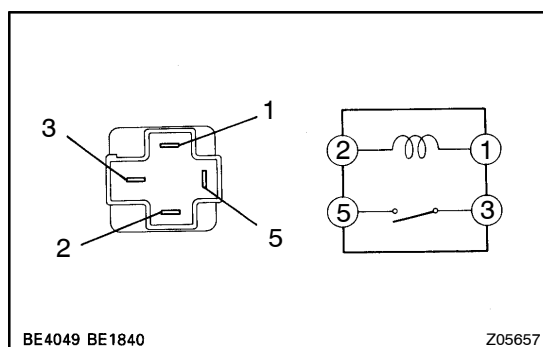
If continuity is not as specified, replace the switch.



3. INSPECT HEADLIGHT CONTROL RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	3 - 4	Continuity
Apply B+ between terminals 3 and 4.	1 - 2	Continuity

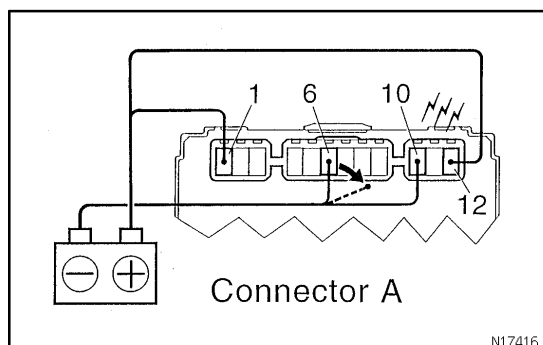
If continuity is not as specified, replace the relay.



4. INSPECT TAILLIGHT CONTROL RELAY CONTINUITY

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

If continuity is not as specified, replace the relay.



5. Light-on Warning System:

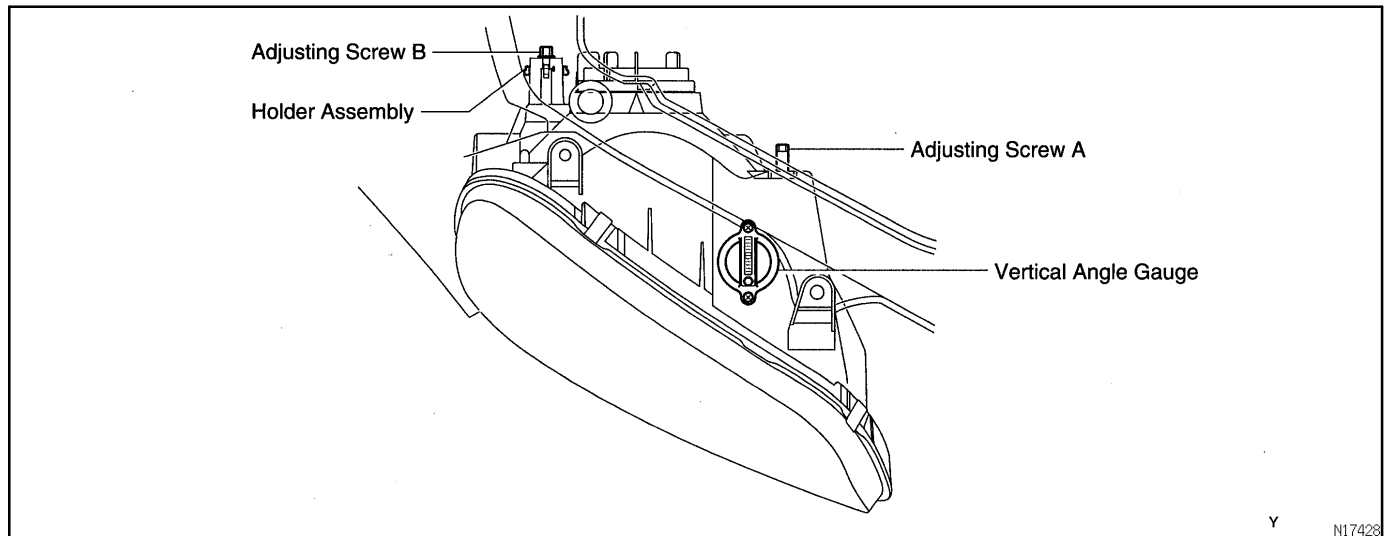
INSPECT INTEGRATION RELAY OPERATION

- Connect the positive (+) lead from the battery to terminal 1 and 12, the negative (-) lead to terminals 10.
- Check that the buzzer sounds when the negative (-) lead from the battery is connected to terminal 6.

If operation is not as specified, replace the relay.

6. INSPECT DOOR COURTESY SWITCH CONTINUITY (See page BE-22)

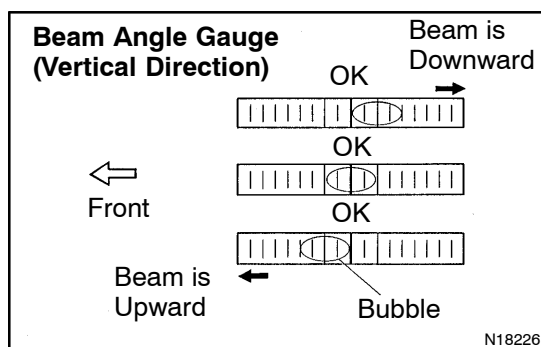
ADJUSTMENT



1. ADJUST HEADLIGHT AIM

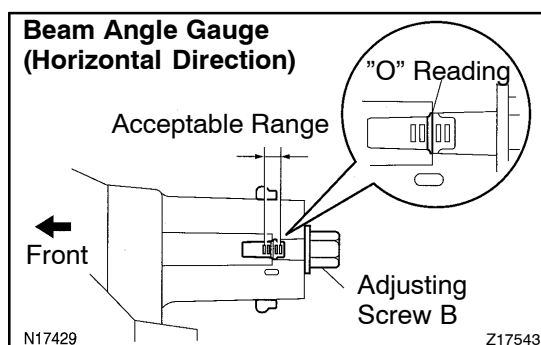
(a) Do the following before inspection.

- Make sure that the body around the headlight is not deformed.
- Park the vehicle on a level spot.
- The driver gets into the driver's seat and puts the vehicle in a state ready for driving (with a full tank).
- Bounce the vehicle several times.



(b) Adjust the headlight aim in vertical direction.

If the bubble is outside the acceptable range of the beam angle gauge, adjust it by using adjusting screw A.

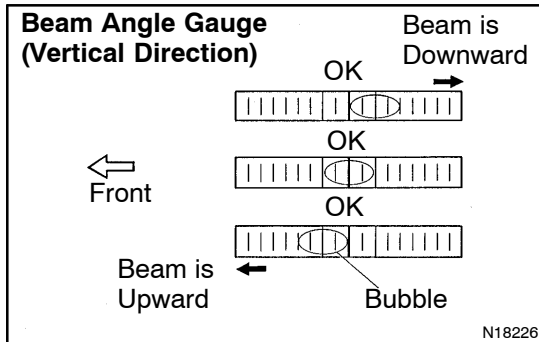


(c) Adjust the headlight aim in horizontal direction.

If "0" mark is not within the acceptable range, adjust the "0" reading to the "0" mark using adjusting screw B.

2. ADJUST HEADLIGHT AIM

- (a) Replace the headlight.
- (b) Do the following before inspection.
 - Make sure that the body around the headlight is not deformed.
 - Park the vehicle on a level spot.
 - The driver gets into the driver's seat and puts the vehicle in a state ready for driving (with a full tank).
 - Bounce the vehicle several times.

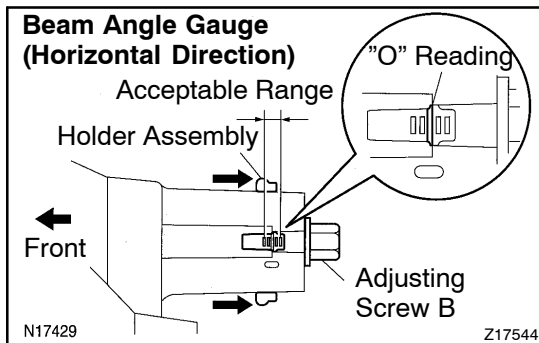


- (c) Adjust the headlight aim in vertical direction.
 - (1) Using adjusting screw A, adjustment the headlight aim to within the specifications.
 - (2) Make sure that the gauge bubble is within the acceptable range.

HINT:

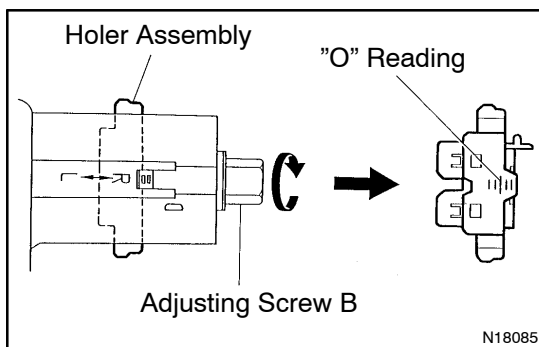
If the gauge bubble is outside the acceptable range, check that the vehicle is parked on a level spot.

Readjust the headlight aim after parking the vehicle on a level spot.



- (d) Adjust the headlight aim in horizontal direction.

Using adjusting screw B, adjust the headlight aim to within the specifications.

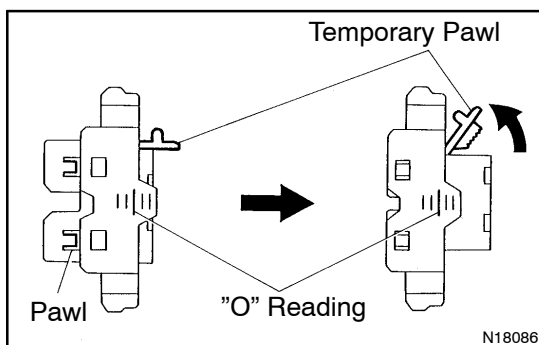


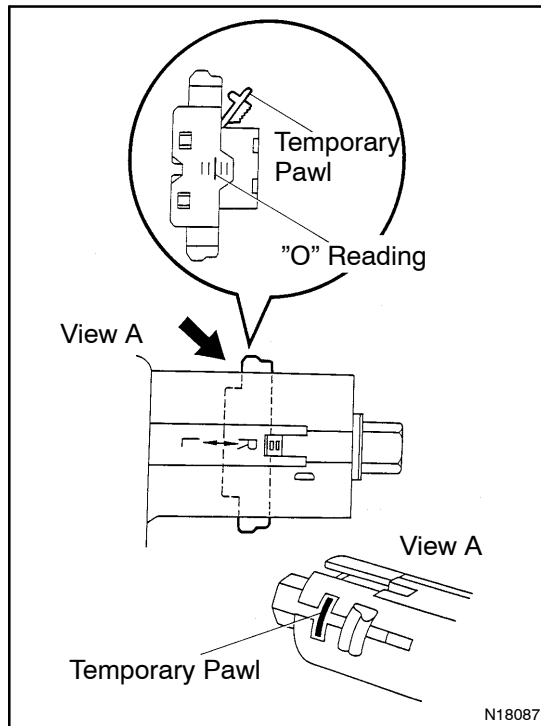
3. HOW TO RESET LH AND RH AIMING INDICATORS (Unlocking method)

HINT:

These operations should be done only when the head adjustment of the headlight aim is necessary, for example in case the headlight aim "O" mark deviates from the acceptable range when the headlight is reassembled after repair.

- (a) Turn the adjusting screw B to the right, and remove the holder assembly from the cylindrical part of the housing.
- (b) Unlock the holder assembly.

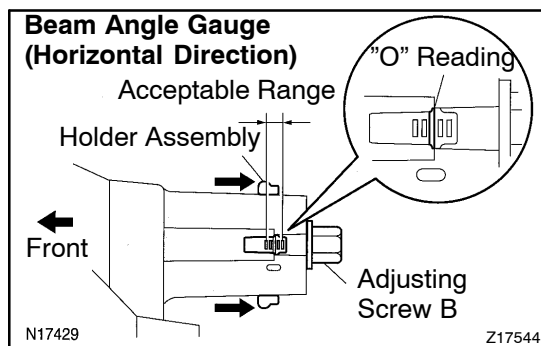




- (c) Insert the holder assembly, unlock in step (b), to the screw and housing again.

HINT:

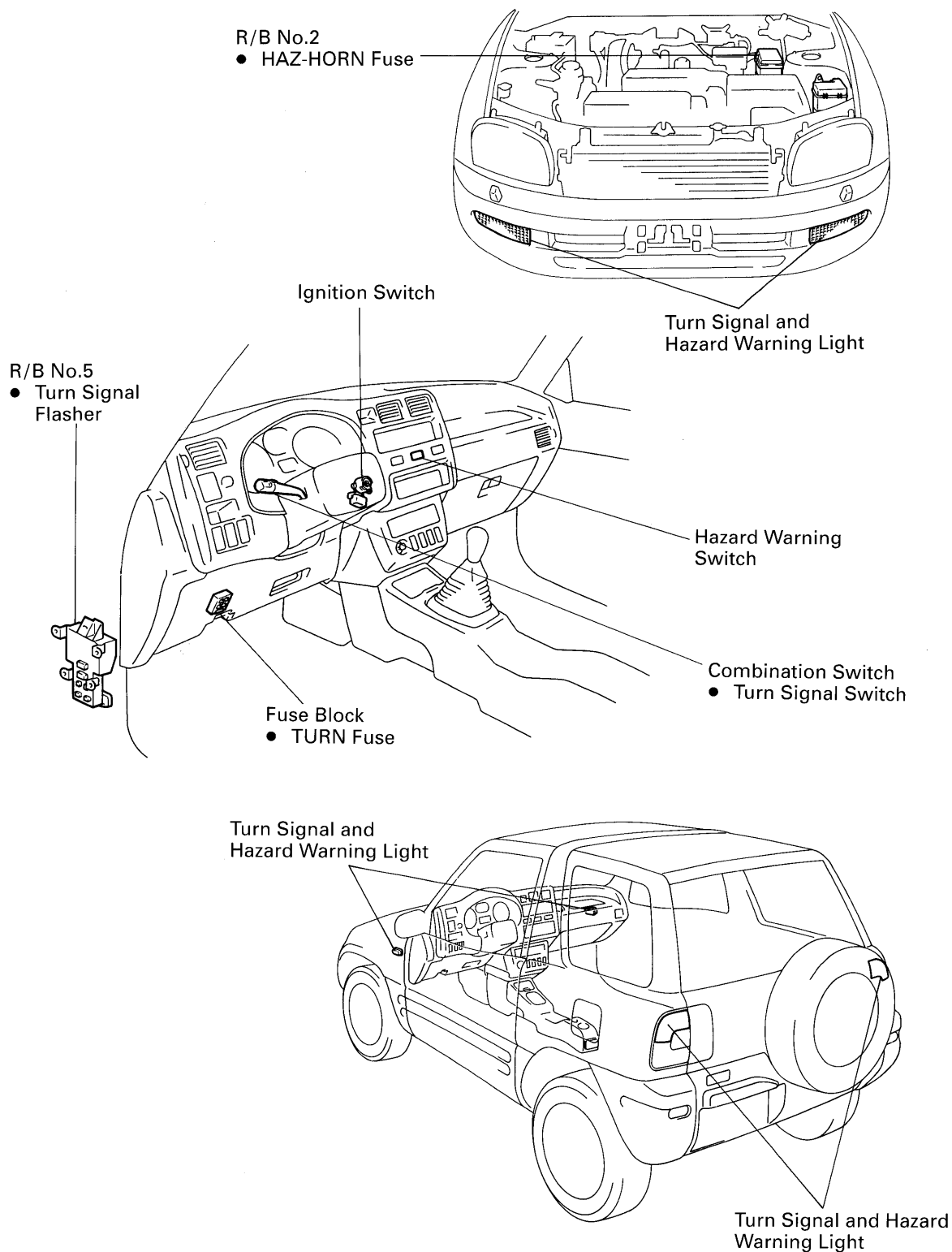
When the assembly is inserted till the pawl for temporary set is hooded to the cross slit of the housing as shown in view A, setting is completed.



- (d) Turn the adjusting screw B to the left and adjust the LH and RH headlight aims.
- (e) Pull the holder assembly backwards and lock it.

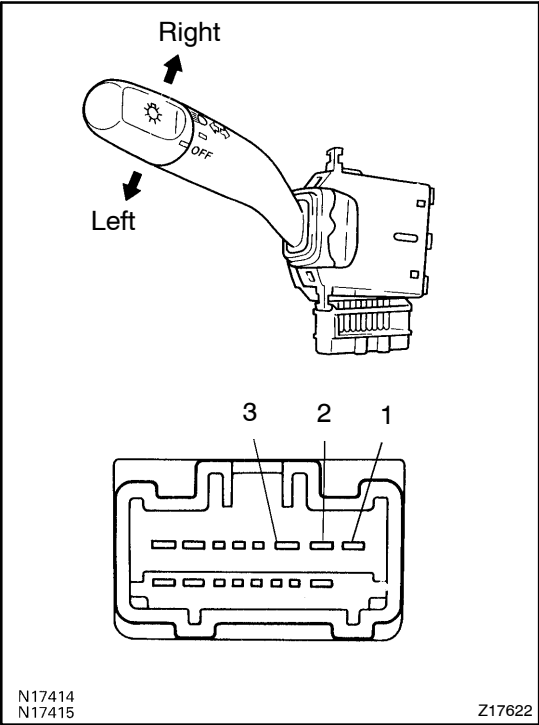
TURN SIGNAL AND HAZARD WARNING SYSTEM LOCATION

BE0J9-05



N11606
N17401
N11608

Z17406

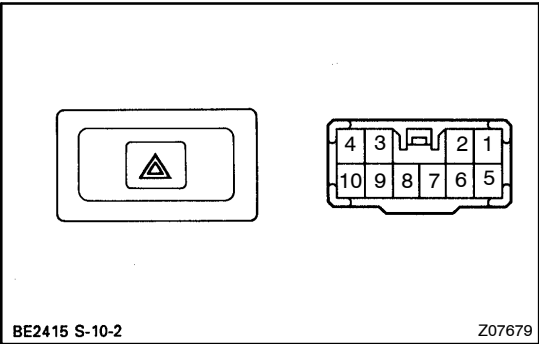


INSPECTION

1. INSPECT TURN SIGNAL SWITCH CONTINUITY

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

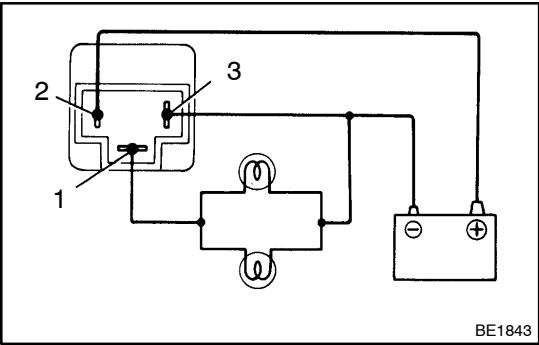
If continuity is not as specified, replace the switch.



2. INSPECT HAZARD WARNING SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Switch OFF	7 – 10	Continuity
Switch ON	4 – 5 – 6 – 9 7 – 8	Continuity
Illumination circuit	2 – 3	Continuity

If continuity is not as specified, replace the switch.



3. INSPECT TURN SIGNAL FLASHER OPERATION

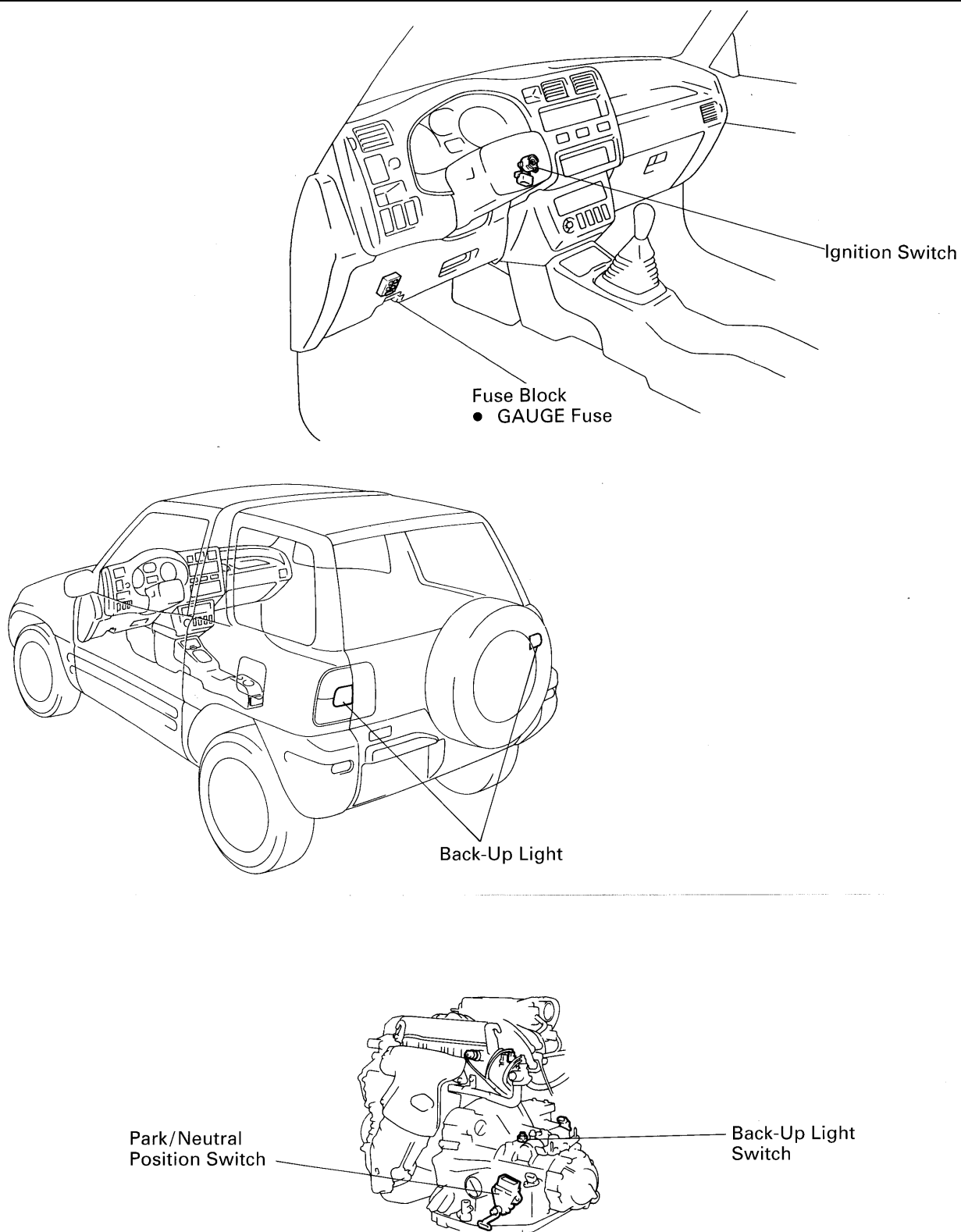
- Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 3.
- Connect the 2 turn signal light bulbs parallel to each other to terminals 1 and 3, check that the bulbs flash.

HINT:

The turn signal lights should flash 60 or 120 times per minute. If one of the front or rear turn signal lights has an open circuit, the number of flashing will be more than 140 per minute. If operation is not as specified, replace the flasher.

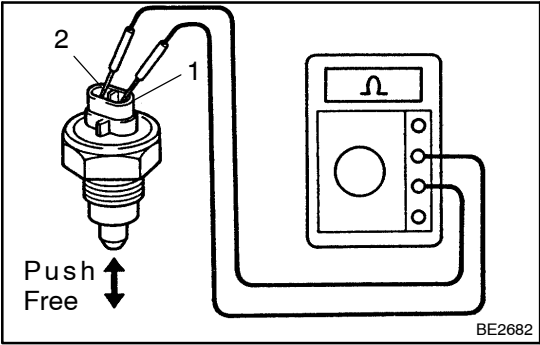
BACK-UP LIGHT SYSTEM LOCATION

BE0JD-05



N17403
N11611
N11612

Z17408



INSPECTION

1. INSPECT BACK-UP LIGHT SWITCH CONTINUITY

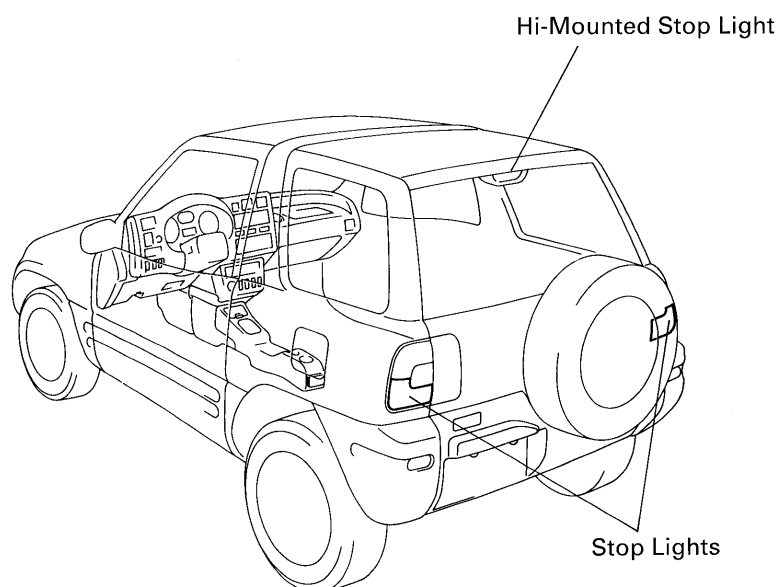
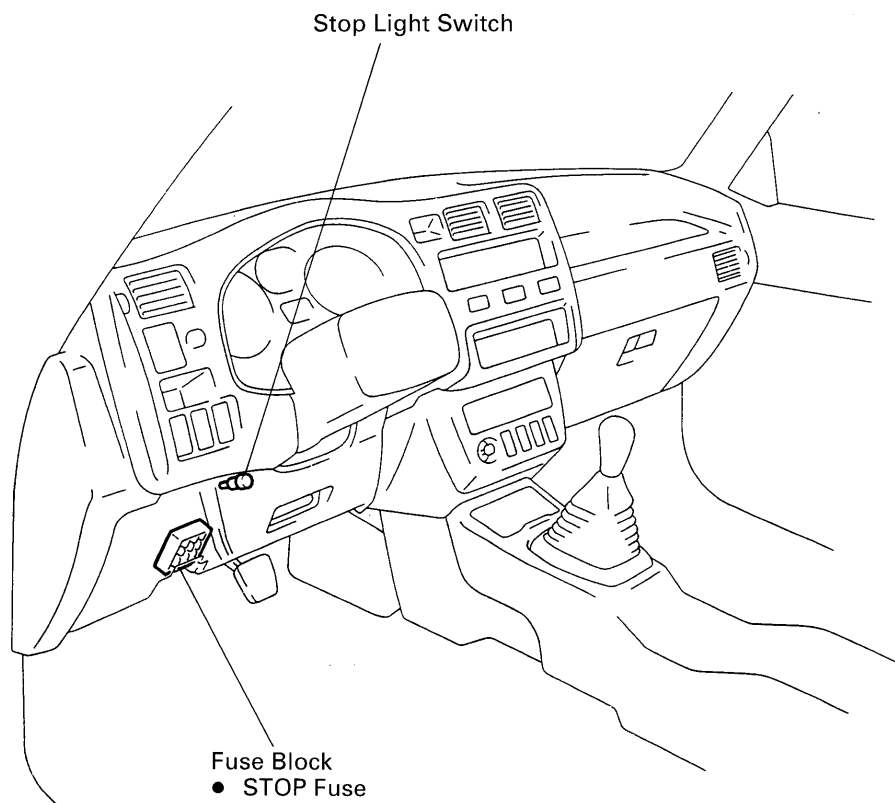
Switch position	Tester connection	Specified condition
Free	1 - 2	No continuity
Push	1 - 2	Continuity

If continuity is not as specified, replace the switch.

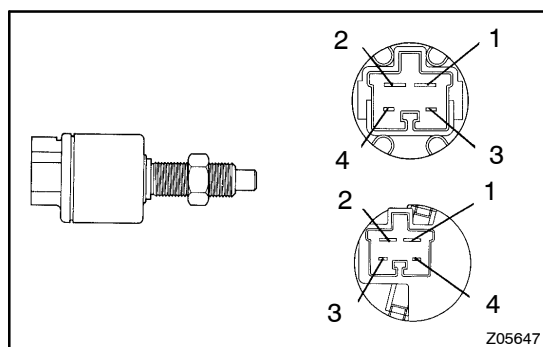
2. INSPECT PARK/NEUTRAL POSITION SWITCH (See page [DI-156](#), [DI-218](#))

STOP LIGHT SYSTEM LOCATION

BE0JF-06

N17404
N11602

Z17409



INSPECTION

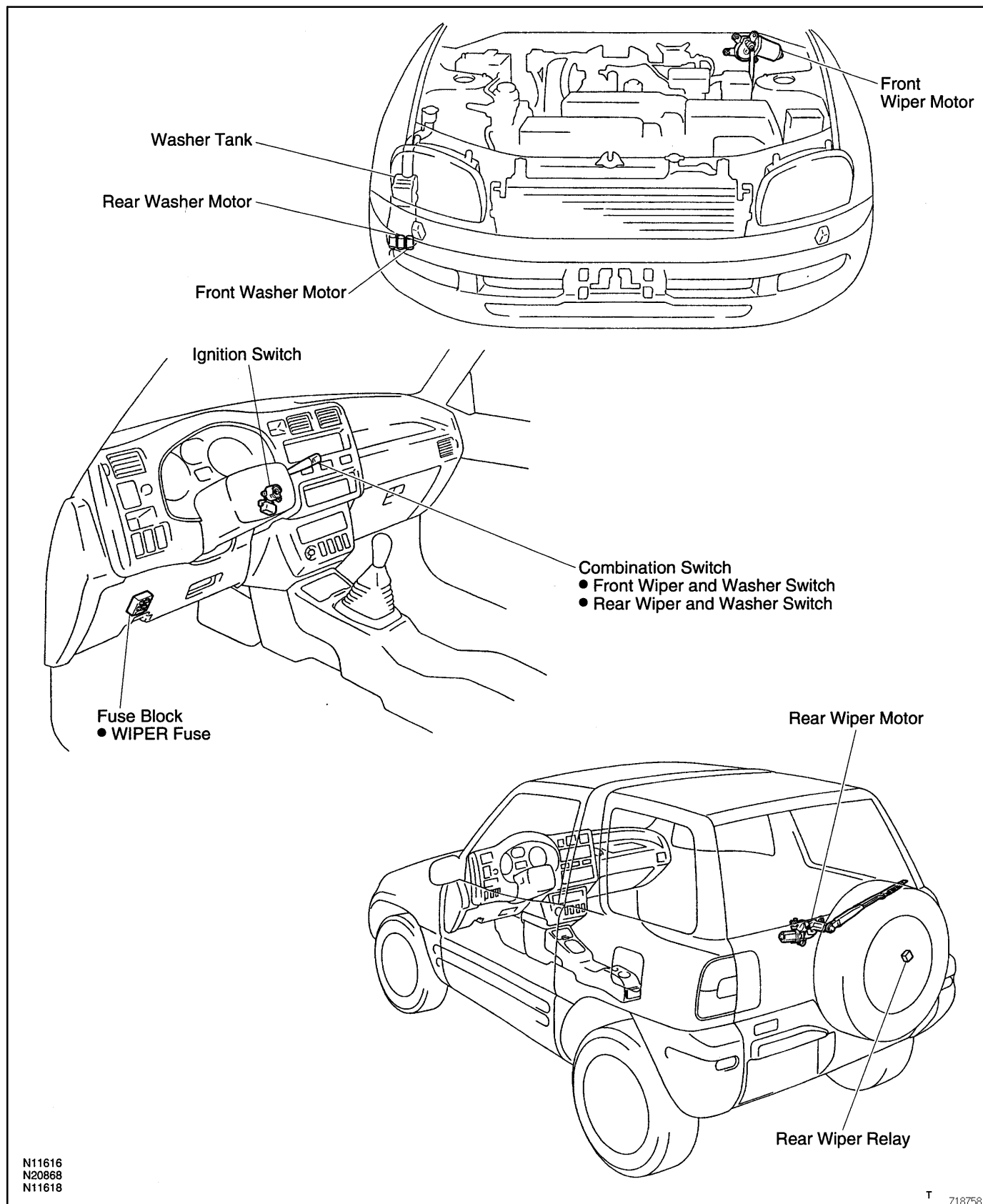
INSPECT STOP LIGHT SWITCH CONTINUITY

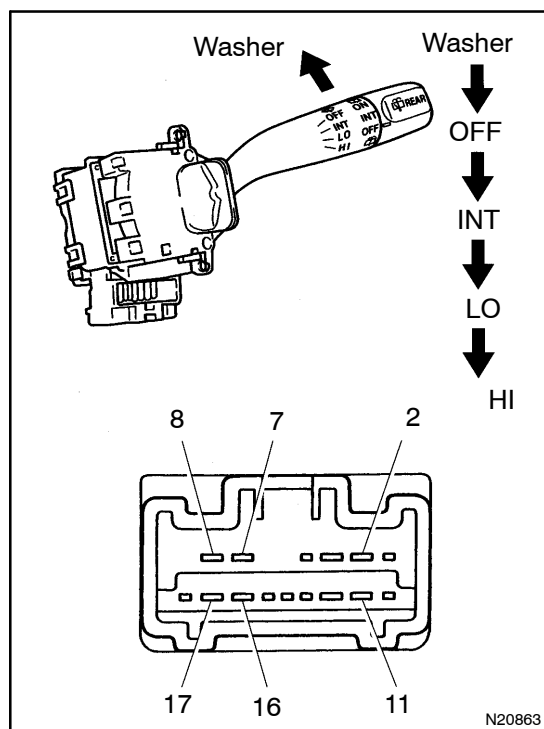
Switch position	Tester connection	Specified condition
Switch pin free (Pedal depressed)	1 - 2	Continuity
Switch pin pushed in (Pedal released)	3 - 4	No continuity

If continuity is not as specified, replace the switch.

WIPER AND WASHER SYSTEM LOCATION

BE0JH-06





INSPECTION

1. INSPECT FRONT WIPER SWITCH CONTINUITY

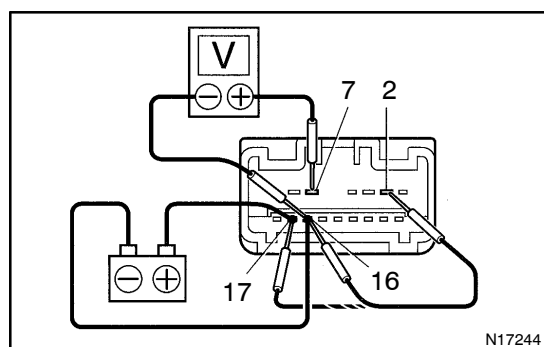
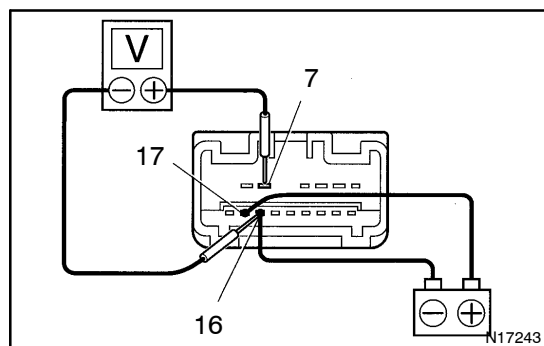
Switch position	Tester connection	Specified condition
OFF	7 - 16	Continuity
INT	7 - 16	Continuity
LO	7 - 17	Continuity
HI	8 - 17	Continuity

If continuity is not as specified, replace the switch.

2. INSPECT FRONT WASHER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF	-	No continuity
ON	2 - 11	Continuity

If continuity is not as specified, replace the switch.

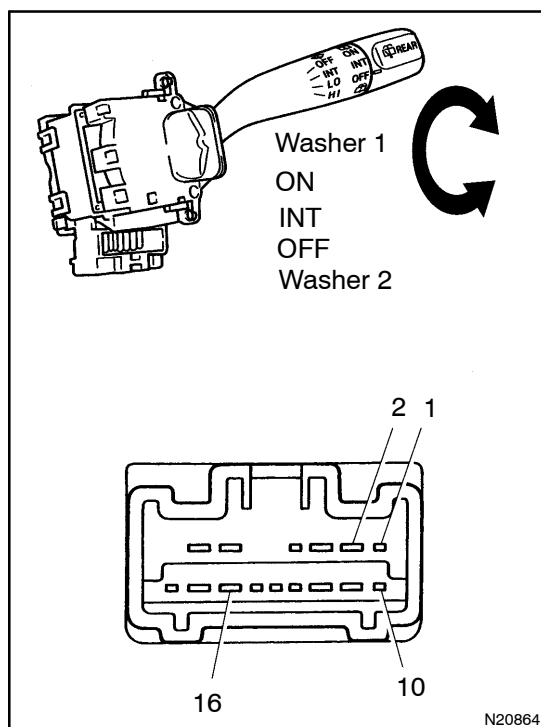


3. INSPECT INTERMITTENT WIPER OPERATION

- Turn the wiper switch to the INT position.
- Turn the intermittent time control switch to the FAST position.
- Connect the positive (+) lead from the battery to terminal 17 and the negative (-) lead to terminal 16.
- Connect the positive (+) lead from the voltmeter to terminal 7 and the negative (-) lead to terminal 16, check that the meter needle indicates battery positive voltage.
- After connecting terminal 2 to terminal 17, connect to terminal 16.
- Then, check that the voltage rises from 0 V to battery positive voltage within the times, as shown in the table.

If operation is not as specified, replace the switch.

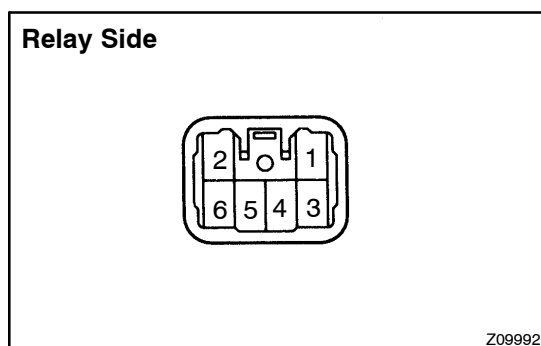
INT time control switch position	Voltage
FAST	Approx. 1 - 3 sec. Battery positive voltage 0 volt
SLOW	Approx. 10 - 15 sec. Battery positive voltage 0 volt



4. INSPECT REAR WIPER AND WASHER SWITCH CONTINUITY

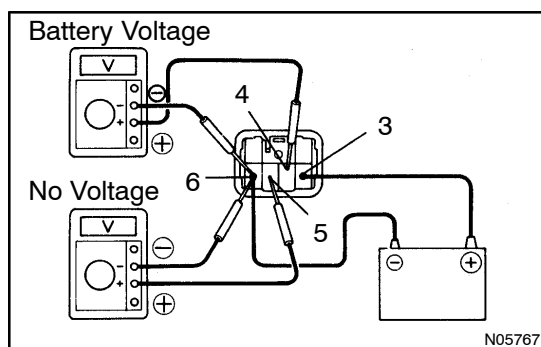
Switch position	Tester connection	Specified condition
Washer 1	2 - 16	Continuity
Wiper OFF	-	No continuity
Wiper INT	10 - 16	Continuity
Wiper ON	1 - 16	Continuity
Washer 2	1 - 2 - 16	Continuity

If continuity is not as specified, replace the switch.



5. INSPECT REAR WIPER RELAY CONTINUITY

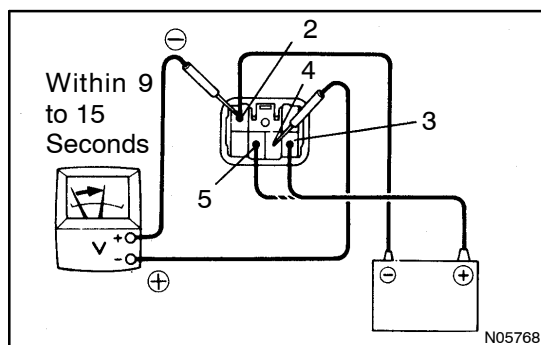
- Check that no continuity exists between terminals 3 and 4.
 - Check that continuity exists between terminals 4 and 5.
- If continuity is not as specified, replace the relay.



6. INSPECT REAR WIPER RELAY OPERATION

- Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to terminal 6.
- Connect the positive (+) lead from the voltmeter to terminal 5 and the negative (-) lead to terminal 6, check that the meter needle indicates 0 volts.
- Connect the positive (+) lead from the voltmeter to terminal 4 and the negative (-) lead to terminal 6, check that the meter needle indicates battery positive voltage.

If operation is not as specified, replace the relay.

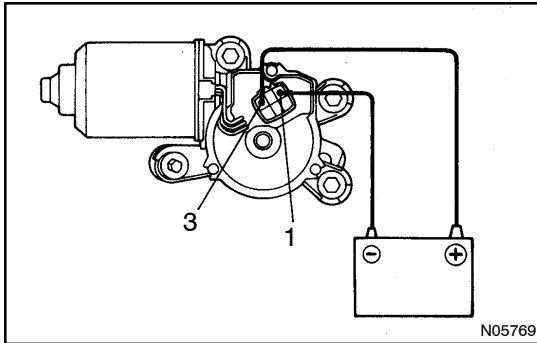


7. INSPECT REAR WIPER RELAY INTERMITTENT OPERATION

- Connect the positive (+) lead from the battery to terminal 5 and the negative (-) lead to terminal 2 more than 2 seconds.
- Connect the positive (+) lead from the voltmeter to terminal 4 and the negative (-) lead to terminal 2.

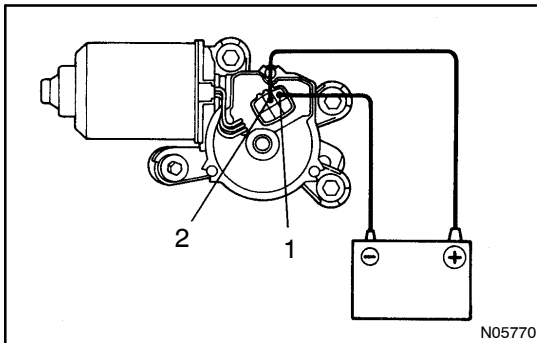
- (c) After disconnecting the positive (+) lead from terminal 5 connect it to terminal 3, and then, check that the meter needle rises from 0 volts to battery positive voltage within 9 to 15 seconds.

If operation is not as specified, replace the relay.

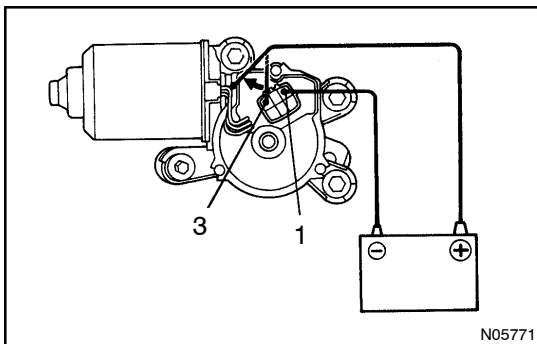


8. INSPECT FRONT WIPER MOTOR OPERATION

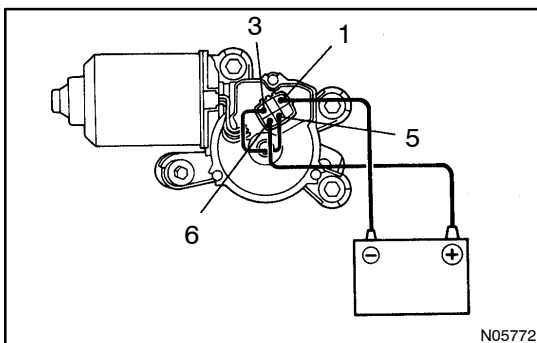
- (a) Inspect the motor operation at low speed.
Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead from the battery to terminal 1, check that the motor operates at low speed.
If operation is not as specified, replace the motor.



- (b) Inspect the motor operation at high speed.
Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead from the battery to terminal 1, check that the motor operates at high speed.
If operation is not as specified, replace the motor.

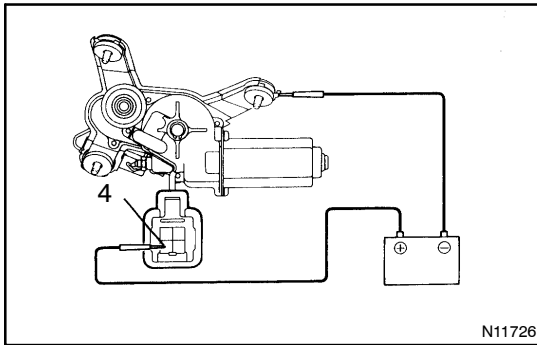


- (c) Inspect the motor operation when stopping it.
(1) Operate the motor at low speed and stop the motor operation anywhere except at the stop position by disconnecting the positive (+) lead from terminal 3.



- (2) Connect terminals 3 and 5.
(3) Connect the positive (+) lead from the battery to terminal 6 and negative (-) lead from the battery terminal 1, check that the motor stops running at the stop position after the motor operates again.

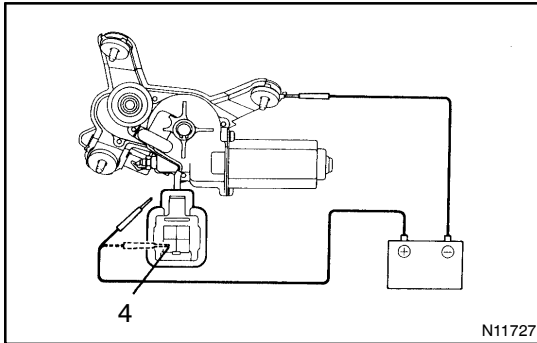
If operation is not as specified, replace the motor.



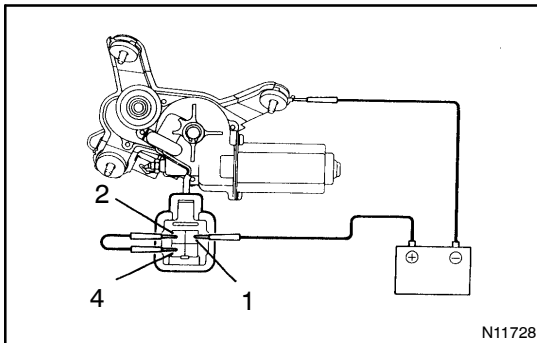
9. INSPECT REAR WIPER MOTOR OPERATION

- (a) Connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to the motor body, check that the motor operates.

If operation is not as specified, replace the motor.

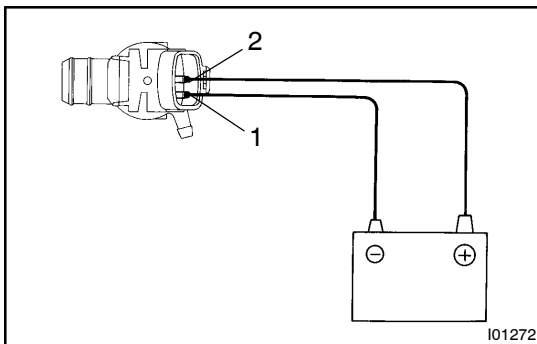


- (b) Operate the motor and stop the motor operation anywhere except at the stop position by disconnecting the positive (+) lead from terminal 4.



- (c) Connect terminals 2 and 4.
(d) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to the motor body, check that the motor stops running at the stop position after the motor operates again.

If operation is not as specified, replace the motor.



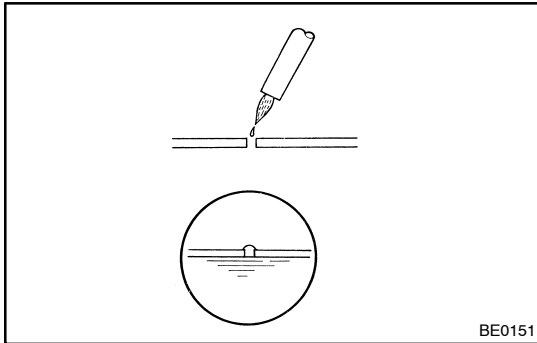
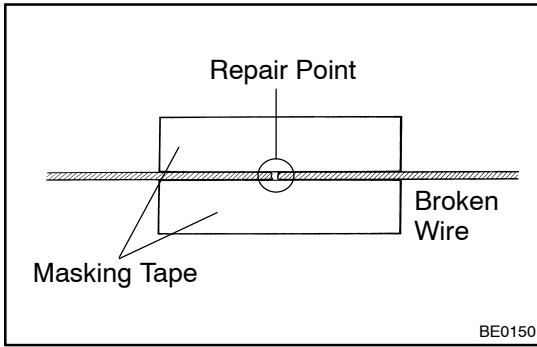
10. INSPECT WASHER MOTOR OPERATION

Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1, check that the motor operates.

NOTICE:

These tests must be performed quickly (within 20 seconds) to prevent the coil from burning out.

If operation is not as specified, replace the motor.



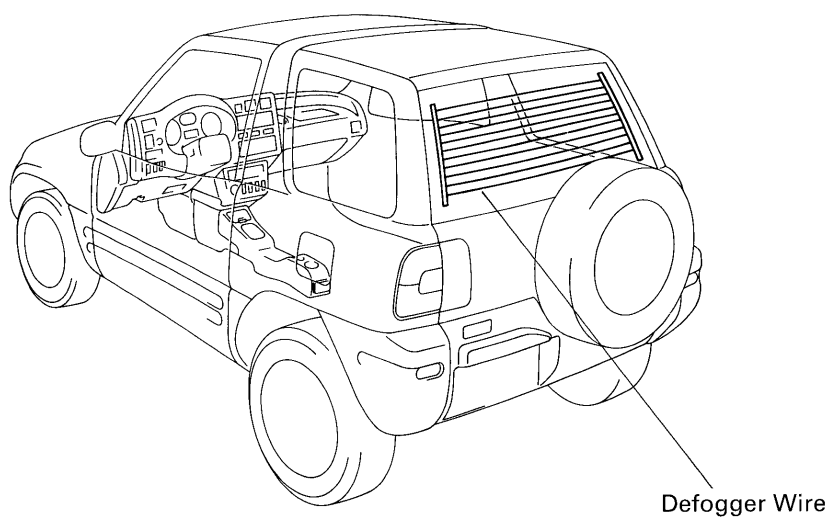
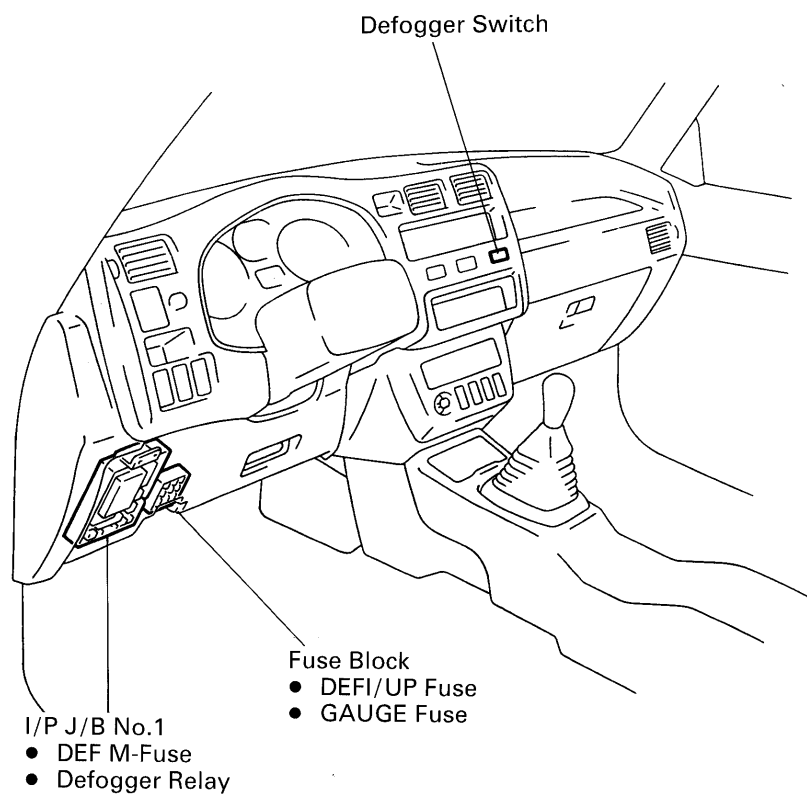
DEFOGGER SYSTEM ON-VEHICLE REPAIR

BE274-01

IF NECESSARY, REPAIR DEFOGGER WIRE

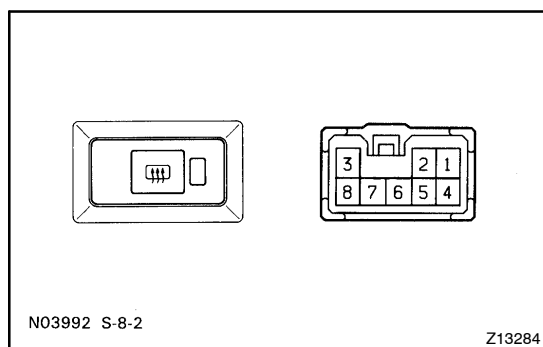
- Clean the broken wire tips with grease, wax and silicone remover.
- Place the masking tape along both sides of the wire to be repaired.
- Thoroughly mix the repair agent (Dupont paste No. 4817).
- Using a fine tip brush, apply a small amount to the wire.
- After a few minutes, remove the masking tape.
- Do not repair the defogger wire for at least 24 hours.

LOCATION



N17410
N11623

Z17414



INSPECTION

1. INSPECT DEFOGGER SWITCH CONTINUITY

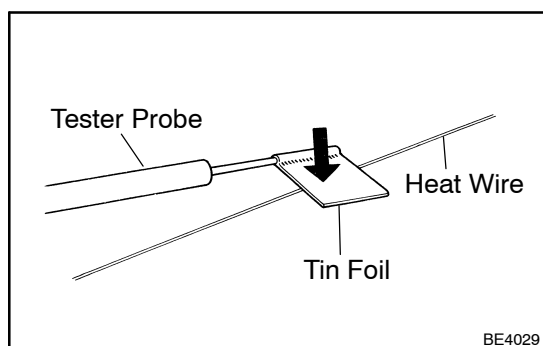
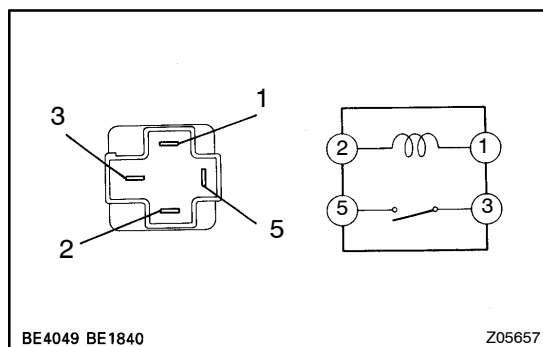
Switch position	Tester connection	Specified condition
Switch OFF	-	No continuity
Switch ON	3 - 5 - 8	Continuity
Switch ON Illumination circuit	3 - 5	Continuity
Illumination circuit	2 - 6	Continuity

If continuity is not as specified, replace the switch.

2. INSPECT DEFOGGER RELAY CONTINUITY

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

If continuity is not as specified, replace the relay.



3. INSPECT DEFOGGER WIRE

NOTICE:

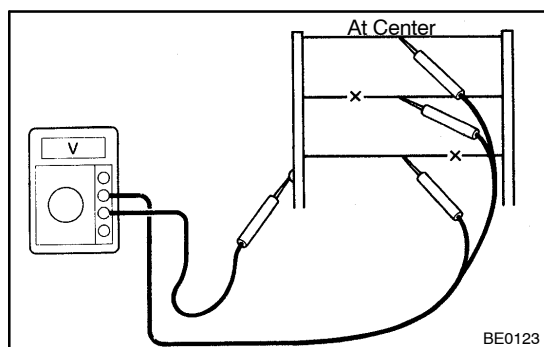
- When cleaning the glass, use a soft, dry cloth, and wipe the glass in the direction of the wire. Take care not to damage the wires.
- Do not use detergents or glass cleaners with abrasive ingredients.
- When measuring voltage, wind a piece of tin foil around the top of the negative probe and press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

- Turn the ignition switch ON.
- Turn the defogger switch ON.
- Inspect the voltage at the center of each heat wire, as shown in the table below.

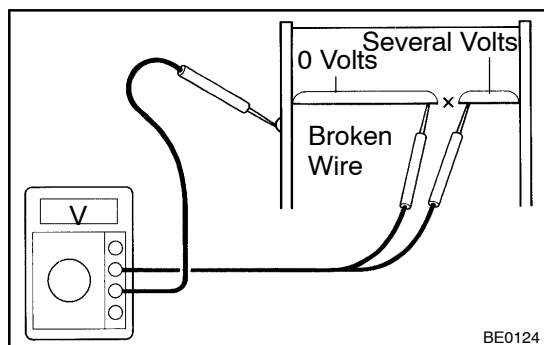
Voltage	Criteria
Approx. 5V	Okay (No break in wire)
Approx. 10V or 0V	Broken wire

HINT:

If there is approximately 10 V, the wire is broken between the center of the wire and the positive (+) end. If there is no voltage, the wire is broken between the center of the wire and ground.



- (d) Place the voltmeter positive (+) lead against the defogger positive (+) terminal.



- (e) Place the voltmeter negative (-) lead with the foil strip against the heat wire at the positive (+) terminal end and slide it toward the negative (-) terminal end.
- (f) The point where the voltmeter deflects from zero to several V is the place where the heat wire is broken.

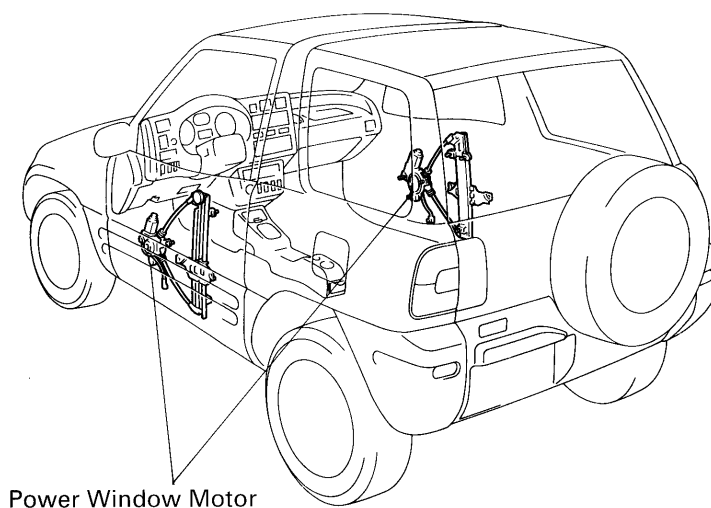
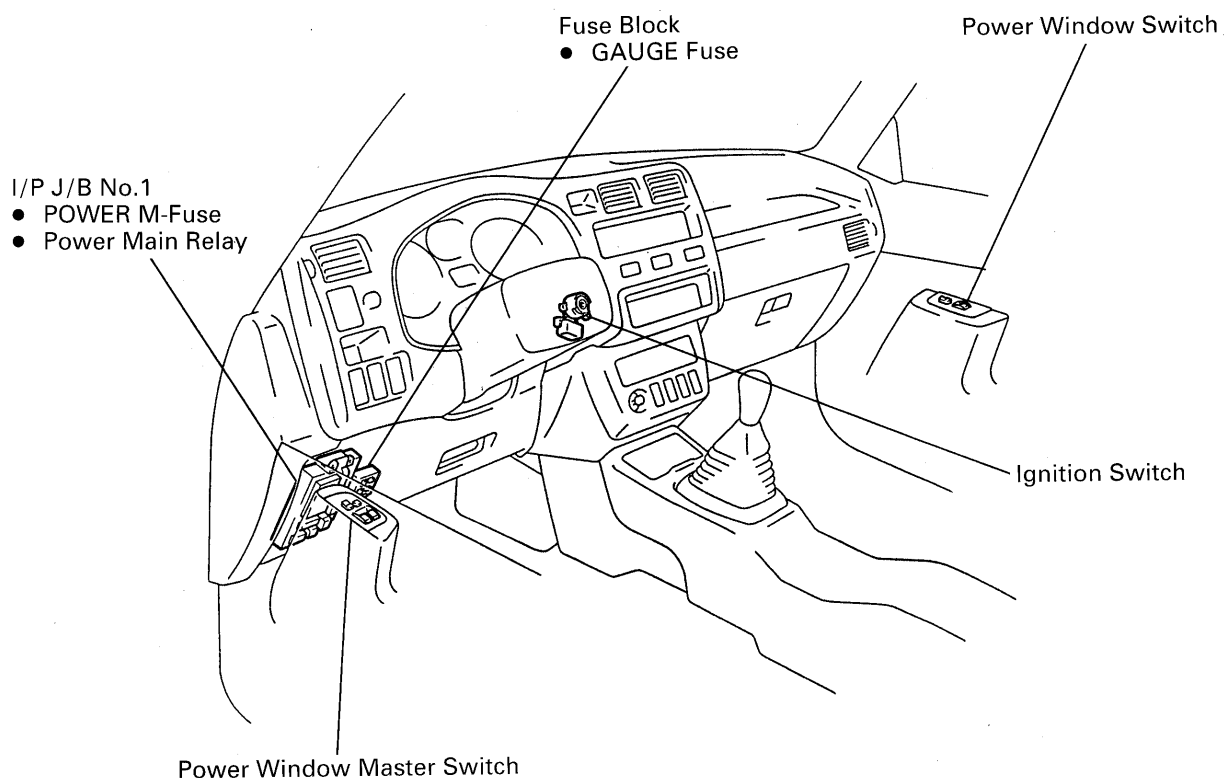
HINT:

If the heat wire is not broken, the voltmeter indicates 0 V at the positive (+) end of the heat wire but gradually increases to about 12 V as the meter probe moves to the other end.

POWER WINDOW CONTROL SYSTEM LOCATION

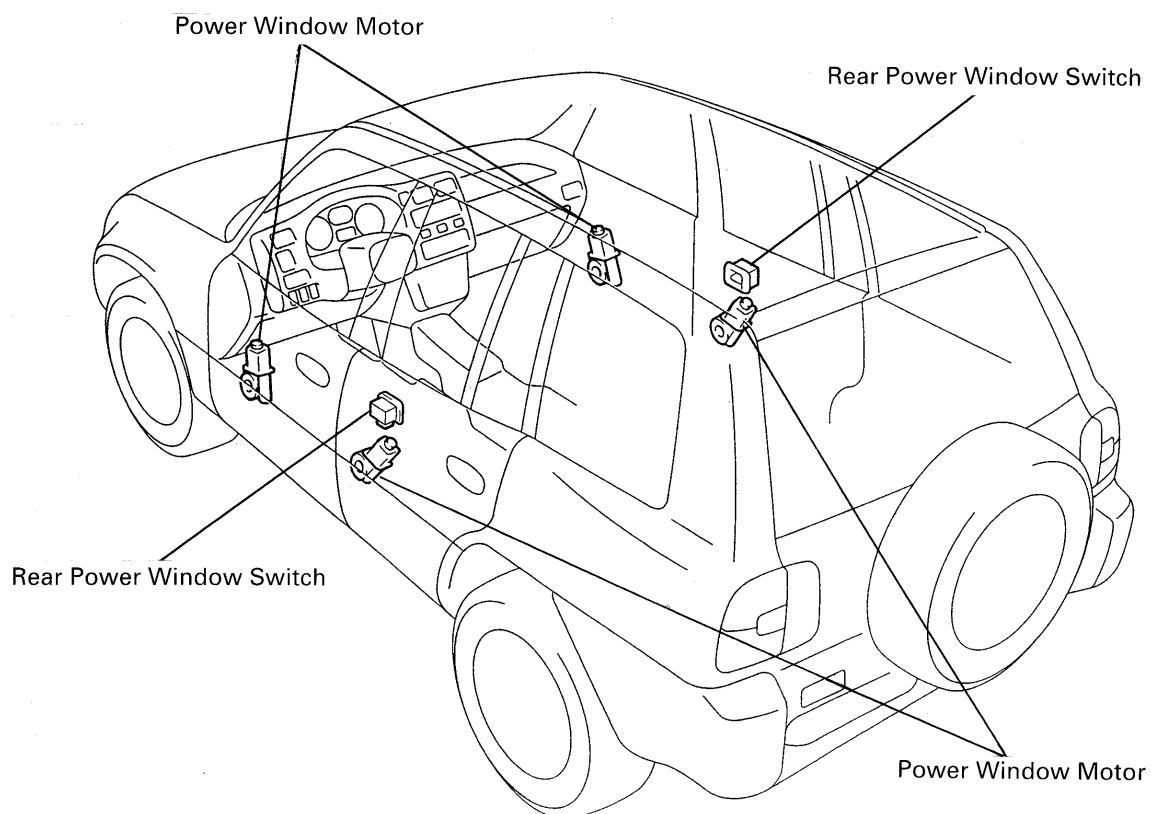
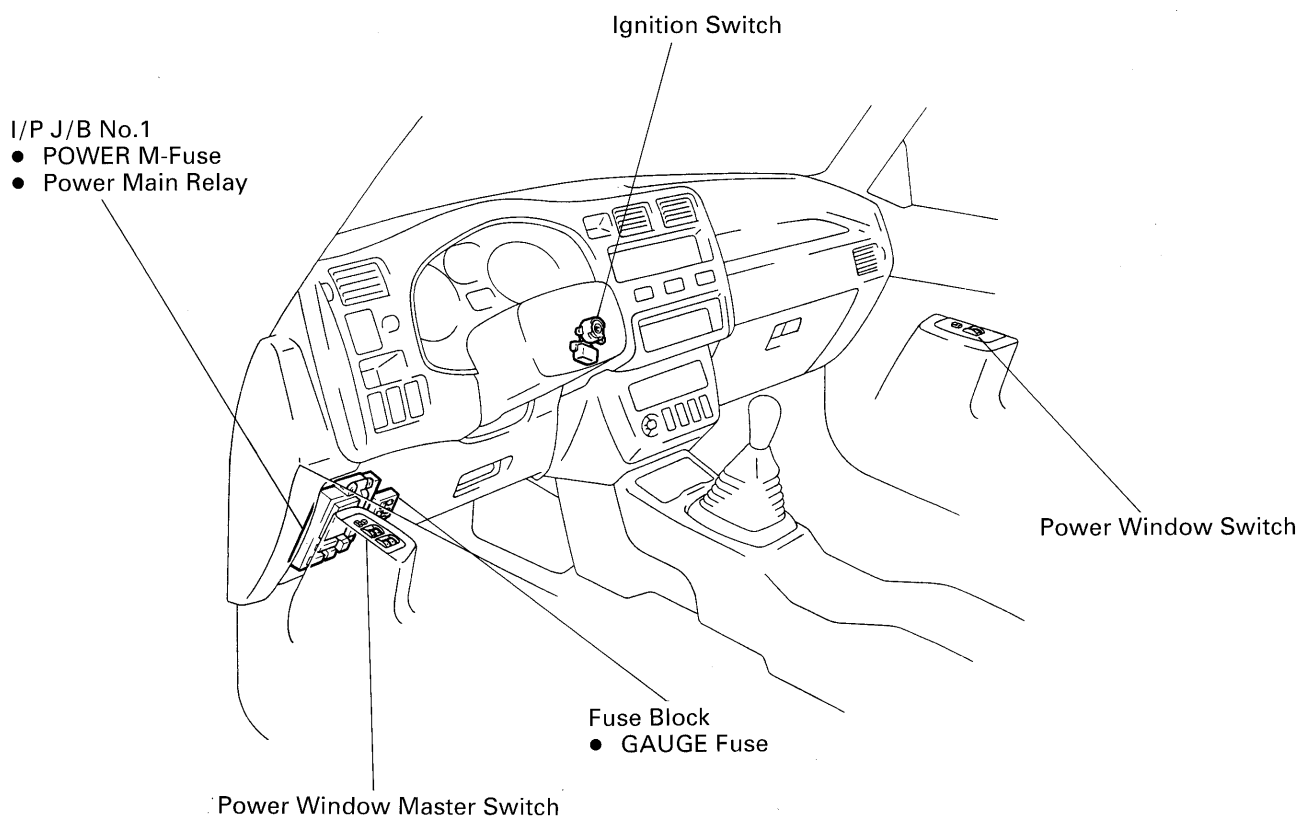
BE0JP-05

3 Door

N17411
N11625

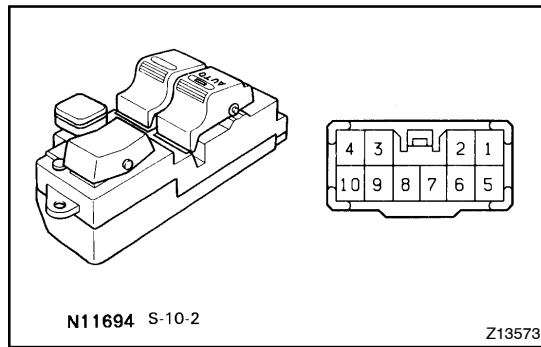
Z17415

5 Door



N17412
N18202

Z17416



INSPECTION

1. 3 Door models:

INSPECT POWER WINDOW MASTER SWITCH CONTINUITY

Driver's Switch:

Switch position	Tester connection	Specified condition
UP	3 – 9 4 – 6	Continuity
OFF	3 – 4 – 6	Continuity
DOWN	3 – 6 4 – 9	Continuity

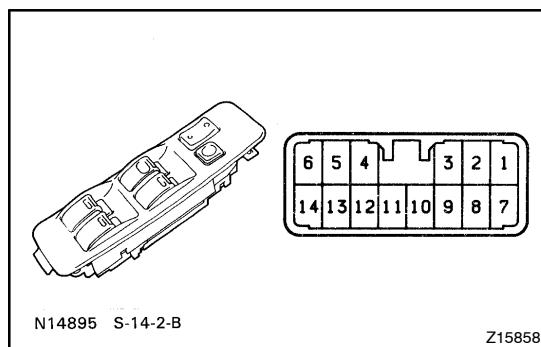
Passenger's Switch (Window unlock):

Switch position	Tester connection	Specified condition
UP	6 – 7 9 – 10	Continuity
OFF	6 – 7 – 10	Continuity
DOWN	7 – 9 6 – 10	Continuity

Passenger's Switch (Window lock):

Switch position	Tester connection	Specified condition
UP	9 – 10	Continuity
OFF	7 – 10	Continuity
DOWN	7 – 9	Continuity

If continuity is not as specified, replace the switch.



2. 5 Door models:

INSPECT POWER WINDOW MASTER SWITCH CONTINUITY

Driver's Switch:

Switch position	Tester connection	Specified condition
UP	1 – 13 6 – 7	Continuity
OFF	1 – 6 – 13	Continuity
DOWN	1 – 6 7 – 13	Continuity

Passenger's Switch (Window unlock):

Switch position	Tester connection	Specified condition
UP	1 – 5 7 – 12	Continuity
OFF	1 – 5 – 12	Continuity
DOWN	1 – 12 5 – 7	Continuity

Passenger's Switch (Window lock):

Switch position	Tester connection	Specified condition
UP	7 – 12	Continuity
OFF	5 – 12	Continuity
DOWN	5 – 7	Continuity

Rear LH side switch (Window lock):

Switch position	Tester connection	Specified condition
UP	1 – 9 7 – 10	Continuity
OFF	1 – 9 – 10	Continuity
DOWN	1 – 10 7 – 9	Continuity

Rear LH side switch (Window lock):

Switch position	Tester connection	Specified condition
UP	7 – 10	Continuity
OFF	9 – 10	Continuity
DOWN	7 – 9	Continuity

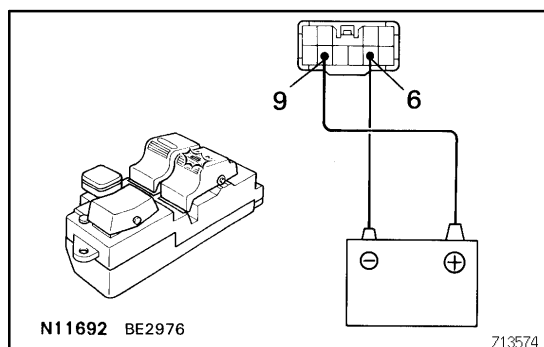
Rear RH side switch (Window lock):

Switch position	Tester connection	Specified condition
UP	1 – 14 7 – 11	Continuity
OFF	1 – 11 – 14	Continuity
DOWN	1 – 11 7 – 14	Continuity

Rear RH side switch (Window lock):

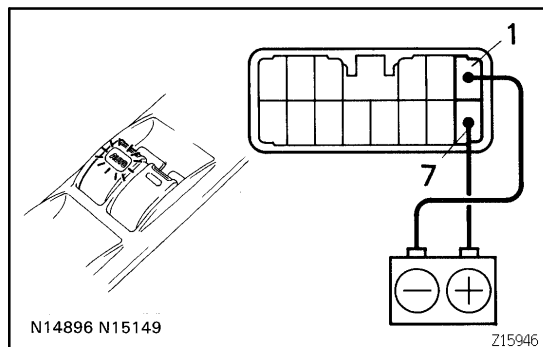
Switch position	Tester connection	Specified condition
UP	7 – 11	Continuity
OFF	11 – 14	Continuity
DOWN	7 – 14	Continuity

If continuity is not as specified, replace the switch.

**3. 3 Door models:****INSPECT SWITCH ILLUMINATION**

Connect the positive (+) lead from the battery to terminal 9, and the negative (–) lead to terminal 6, and check that all the illuminations light up.

If operation is not as specified, replace the master switch.



4. 5 Door models

INSPECT SWITCH ILLUMINATION

Connect the positive (+) lead from the battery to terminal 7 and the negative (-) lead to terminal 1 check that all the illuminations light up.

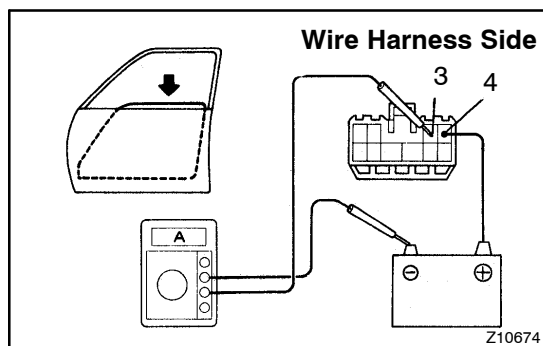
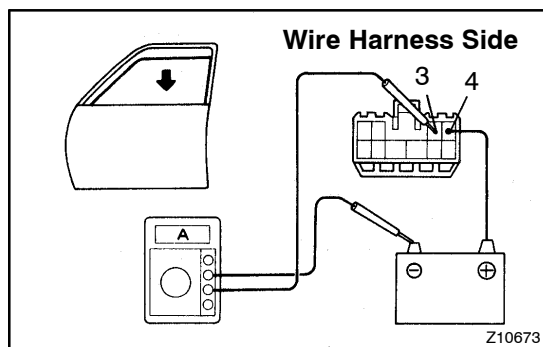
If operation is not as specified, replace the master switch.

5. 3 Door models:

INSPECT ONE TOUCH POWER WINDOW SYSTEM

(a) Using an ammeter, inspect the system.

- (1) Disconnect the connector from the master switch.
- (2) Connect the positive (+) lead from the ammeter to terminal 3 on the wire harness side connector and the negative (-) lead to the negative (-) terminal of the battery.
- (3) Connect the positive (+) lead from the battery to terminal 4 on the wire harness side connector.



- (4) As the window goes down, check that the current flow is approximately 7 amperes.
- (5) Check that the current increases up to approximately 14.5 amperes or more when the window stops going down.

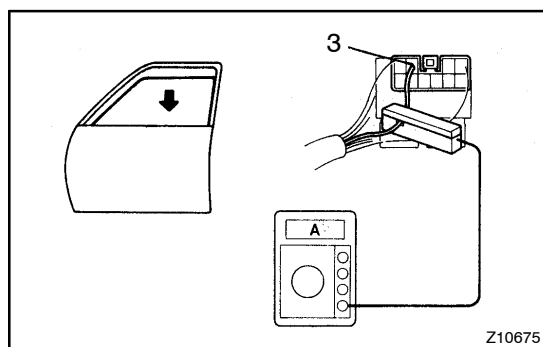
HINT:

The circuit breaker opens some 4 - 40 seconds after the window stops going down, so that check must be made before the circuit breaker operates.

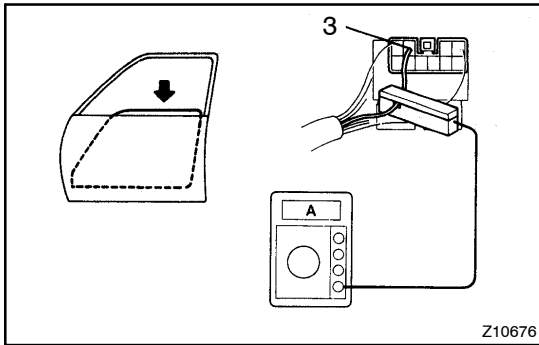
If the operation is not as specified, replace the master switch.

(b) Using an ammeter with a current measurement probe, inspect the system.

- (1) Remove the master switch with connector connected.



- (2) Attach a current-measuring probe to terminal 3 of the wire harness.
- (3) Turn the ignition switch ON and set the power window switch in the down position.



- (4) As the window goes down, check that the current is approximately 7 amperes.
- (5) Check that the current increases up to approximately 14.5 amperes or more when the window stops going down.

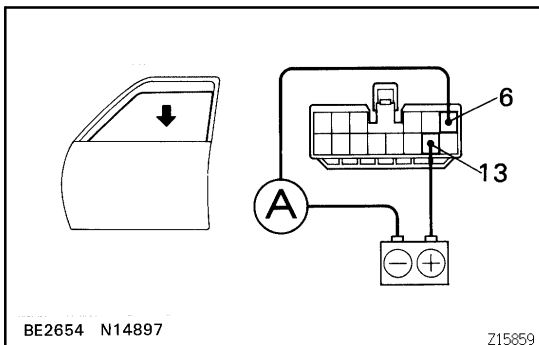
HINT:

The circuit breaker opens some 4 – 40 seconds after the window stops going down, so that check must be made before the circuit breaker operates.

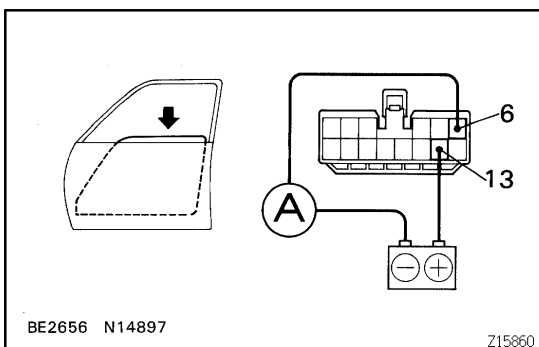
If operation is not as specified, replace the master switch.

6. 5 Door models:**INSPECT ONE TOUCH POWER WINDOW SYSTEM**

- (a) Using an ammeter, inspect the system.
 - (1) Disconnect the connector from the master switch.



- (2) Connect the positive (+) lead from the ammeter to terminal 6 on the wire harness side connector and the negative (-) lead to negative (-) terminal of the battery.
- (3) Connect the positive (+) lead from the battery to terminal 13 on the wire harness side connector.



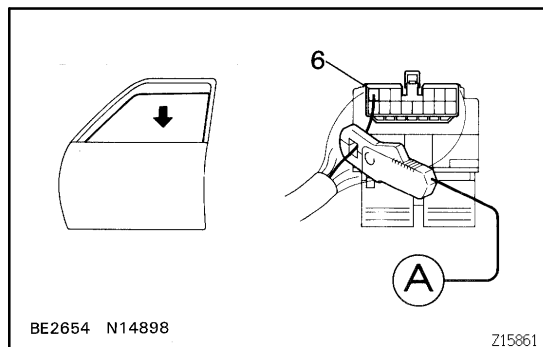
- (4) As the window goes down, check that the current flow is approximately 7 amperes.
- (5) Check that the current increases up to approximately 14.5 A or more when the window stops going down.

HINT:

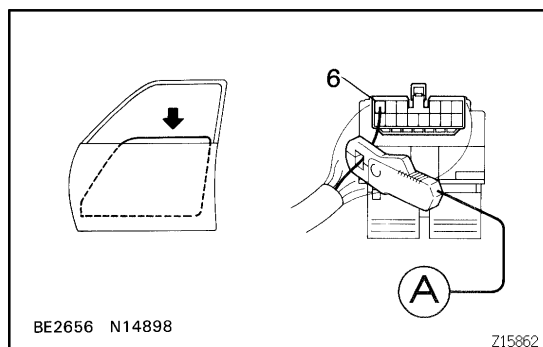
The circuit breaker opens some 4 – 40 seconds after the window stops going down, so that check must be made before the circuit breaker operates.

If the operation is not as specified, replace the master switch.

- (b) Using an ammeter with a current measurement probe, inspect the system.
 - (1) Remove the master switch with connector connected.



- (2) Attach a current-measuring probe to terminal 6 of the wire harness.
- (3) Turn the ignition switch ON and set the power window switch in the down position.



- (4) As the window goes down, check that the current is approximately 7 amperes.
- (5) Check that the current increases up to approximately 14.5 amperes or more when the window stops going down.

HINT:

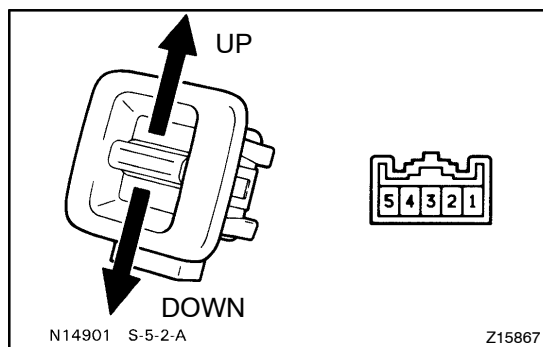
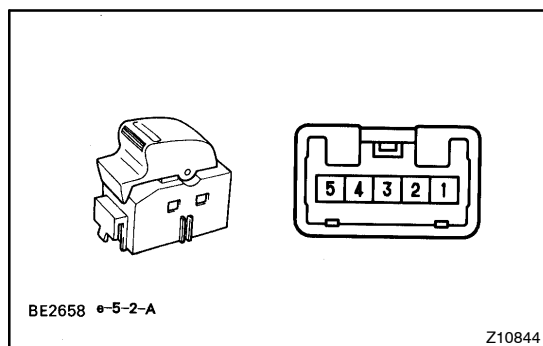
The circuit breaker opens some 4 – 40 seconds after the window stops going down, so that check must be made before the circuit breaker operates.

If operation is not as specified, replace the master switch.

7. INSPECT FRONT POWER WINDOW SWITCH CONTINUITY

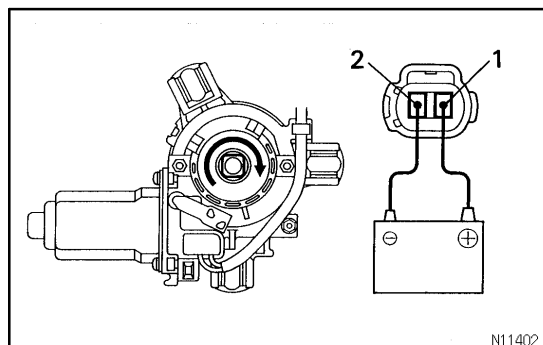
Switch position	Tester connection	Specified condition
UP	1 – 2, 3 – 4	Continuity
OFF	1 – 2, 3 – 5	Continuity
DOWN	1 – 4, 3 – 5	Continuity

If continuity is not as specified, replace the switch.

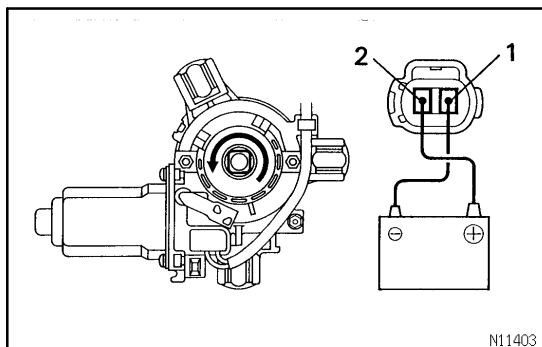
**8. 5 Door models: INSPECT REAR POWER WINDOW SWITCH CONTINUITY**

Switch position	Tester connection	Specified condition
UP	1 – 2, 3 – 4	Continuity
OFF	1 – 2, 4 – 5	Continuity
DOWN	2 – 3, 4 – 5	Continuity

If continuity is not as specified, replace the switch.

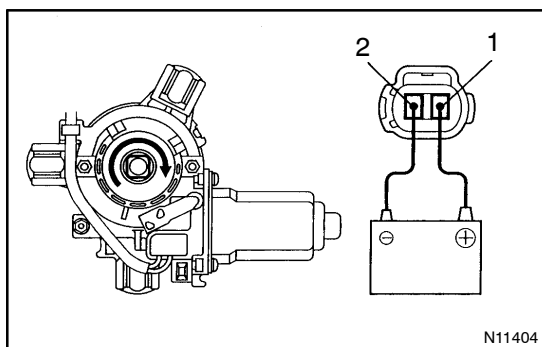
**9. Driver's door of 3 door models: INSPECT POWER WINDOW MOTOR OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, check that the motor turns counterclockwise.



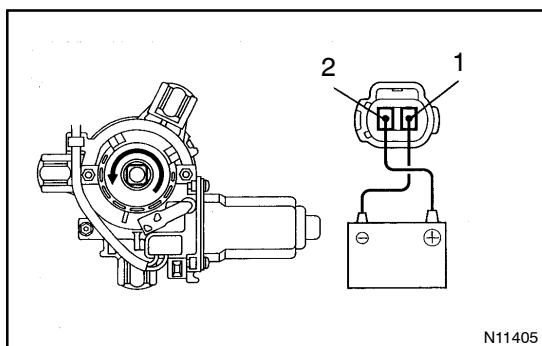
- (b) Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



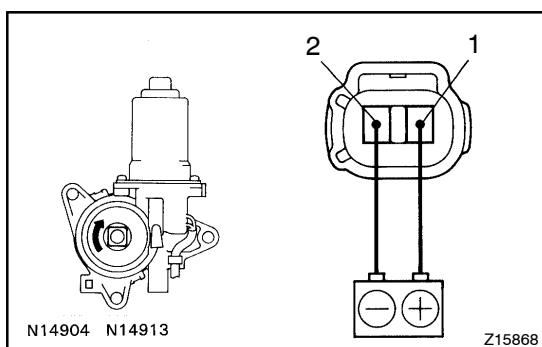
**10. Passenger's door of 3 door models:
INSPECT POWER WINDOW MOTOR OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the motor turns clockwise.



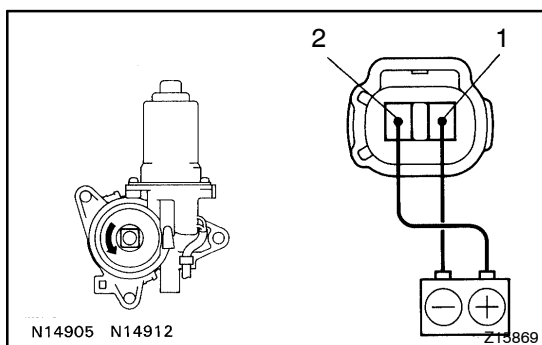
- (b) Reverses the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



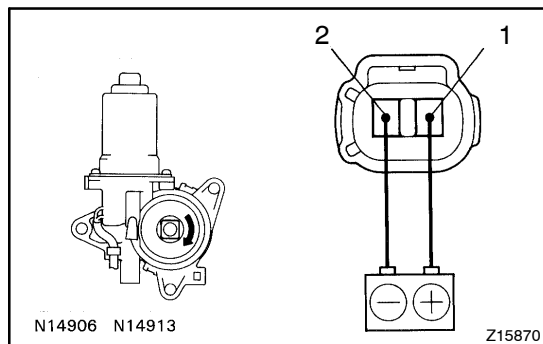
**11. Driver's door of 5 door models:
INSPECT POWER WINDOW MOTOR OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the motor turns clockwise.



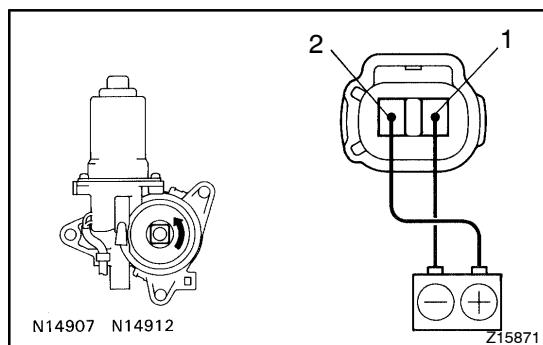
- (b) Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



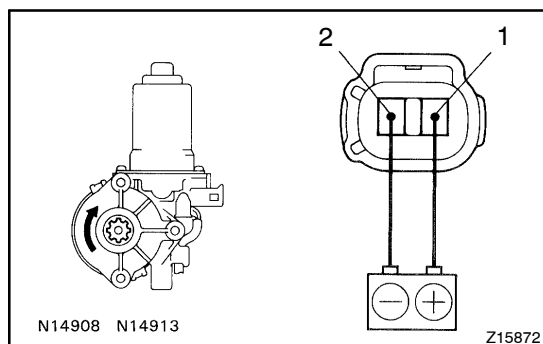
**12. Passenger's door of 5 door models:
INSPECT POWER WINDOW MOTOR OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the motor turns clockwise.



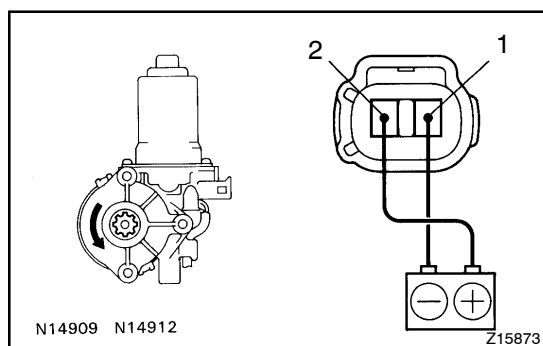
- (b) Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



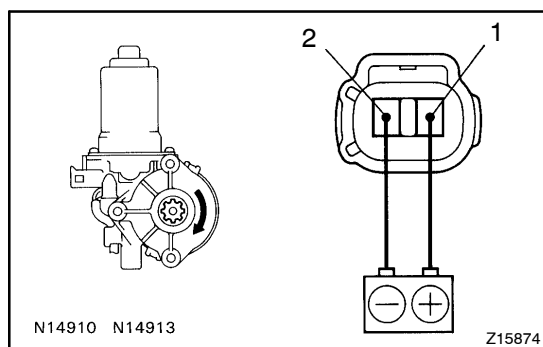
**13. 5 Door models:
INSPECT LH REAR POWER WINDOW MOTOR OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the motor turns clockwise.



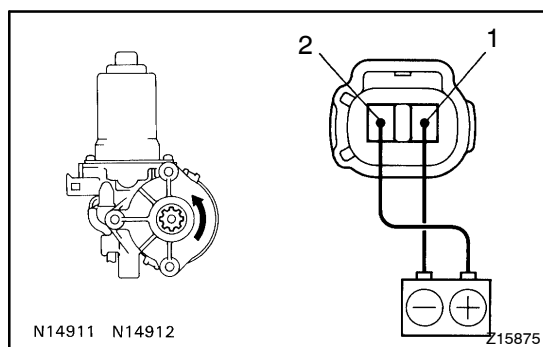
- (b) Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



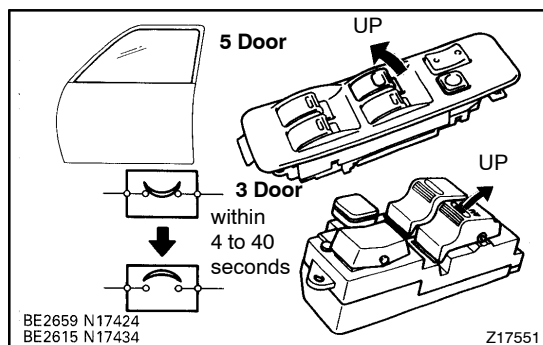
**14. 5 Door models:
INSPECT RH REAR POWER WINDOW MOTOR OPERATION**

- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the motor turns clockwise.



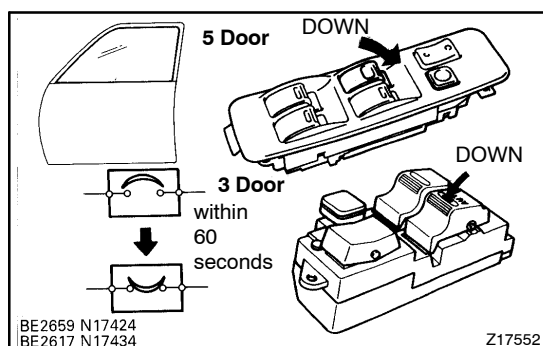
- (b) Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



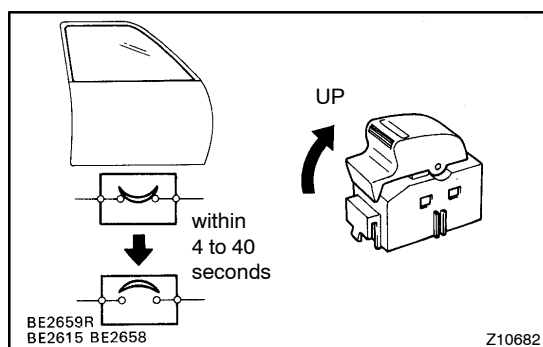
15. Driver's Door: INSPECT CIRCUIT BREAKER OPERATION

- (a) With the window in the fully closed position, hold the power window switch in "UP" position and check that there is a circuit breaker operation noise within 4 to 40 seconds.



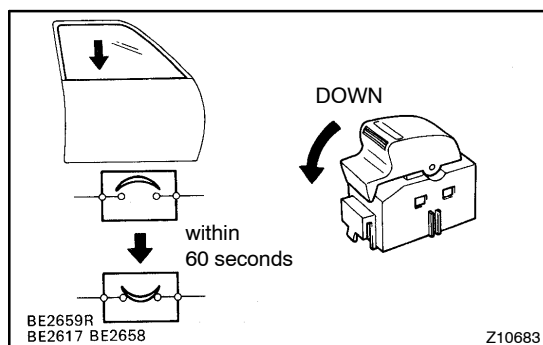
- (b) With the window in the fully closed position, hold the switch in "DOWN" position and check that the window begins to descend within 60 seconds.

If operation is not as specified, replace the motor.



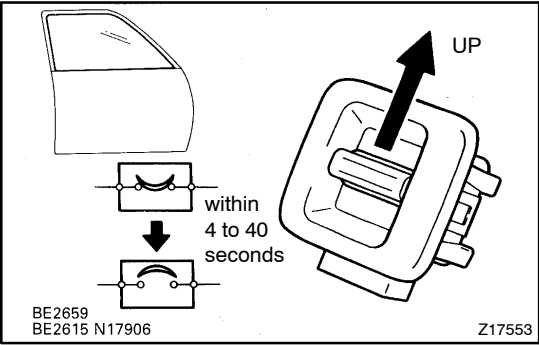
16. Passenger's Door: INSPECT CIRCUIT BREAKER OPERATION

- (a) With the window in the fully closed position, hold the power window switch in "UP" position and check that there is a circuit breaker operation noise within 4 to 40 seconds.



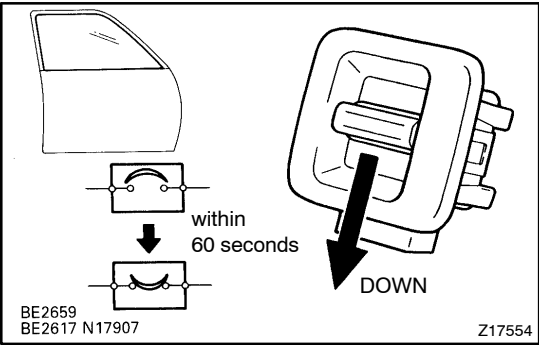
- (b) With the window in the fully closed position, hold the switch in "DOWN" position and check that the window begins to descend within 60 seconds.

If operation is not as specified, replace the motor.



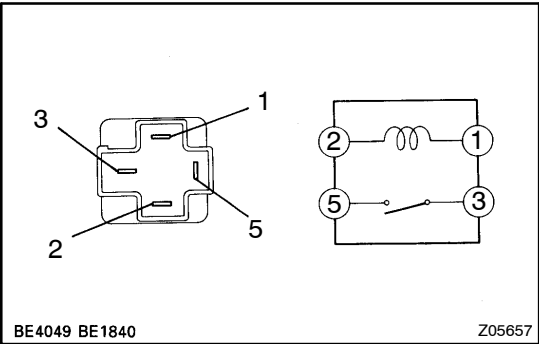
**17. Rear door of 5 door models:
INSPECT CIRCUIT BREAKER OPERATION**

(a) With the window in the fully closed position, hold the power window switch in "UP" position and check that there is a circuit breaker operation noise within 4 to 40 seconds.



(b) With the window in the fully closed position, hold the switch in "DOWN" position and check that the window begins to descend within 60 seconds.

If operation is not as specified, replace the motor.



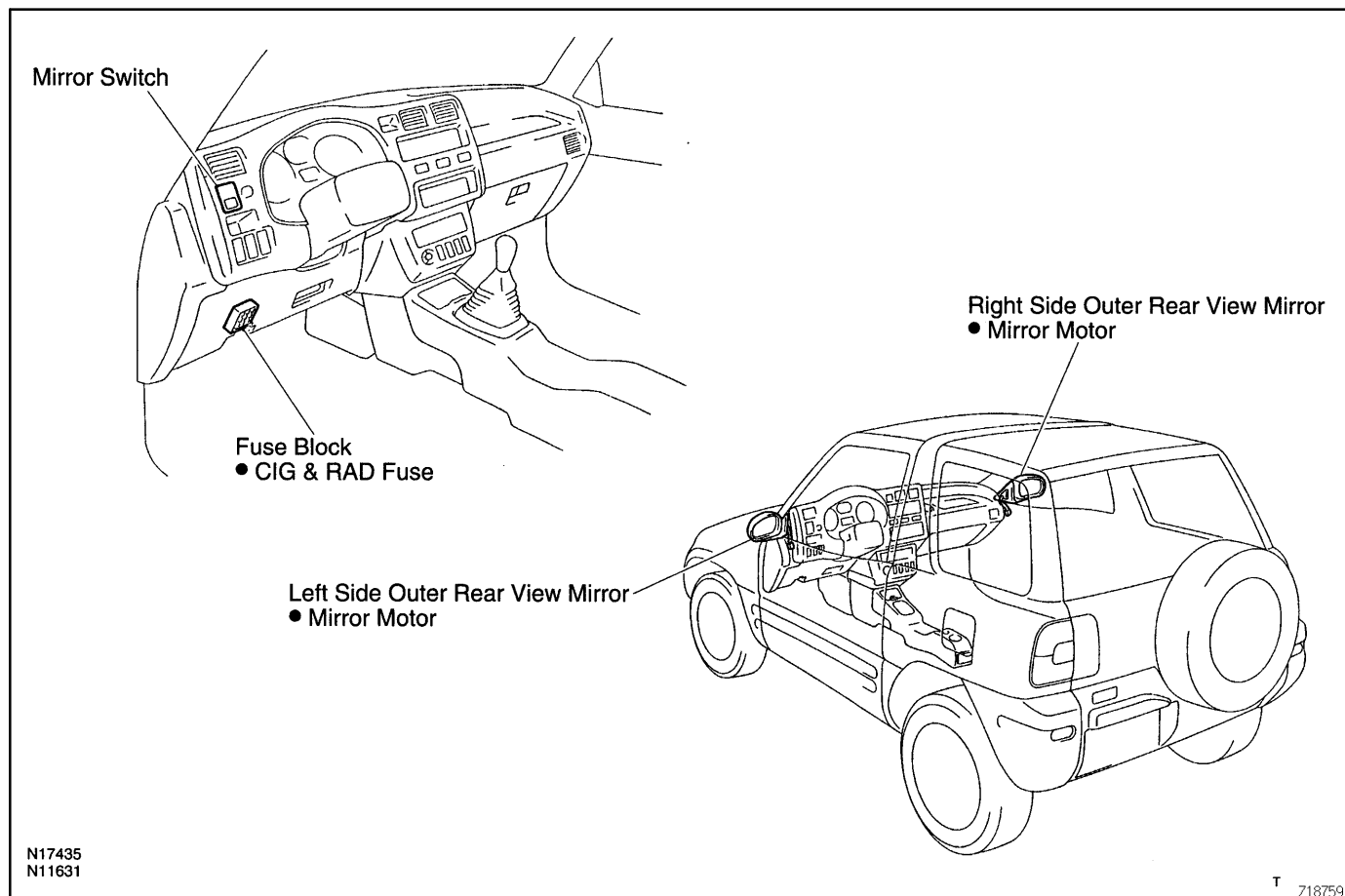
18. INSPECT POWER MAIN RELAY CONTINUITY

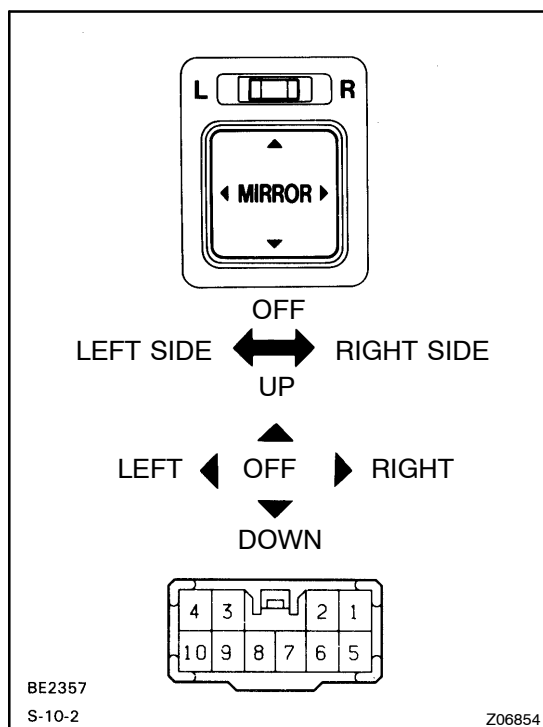
Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2	3 – 5	Continuity

If continuity is not as specified, replace the relay.

POWER MIRROR CONTROL SYSTEM LOCATION

BE0JV-06





INSPECTION

1. INSPECT MIRROR CONTROL SWITCH CONTINUITY

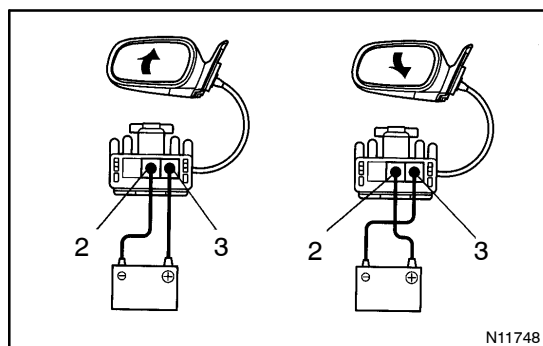
Left side:

Switch Position	Tester connection	Specified condition
OFF	–	No continuity
UP	1 – 10, 3 – 4	Continuity
DOWN	1 – 3, 4 – 10	Continuity
LEFT	1 – 9, 3 – 4	Continuity
RIGHT	1 – 3, 4 – 9	Continuity

Right Side:

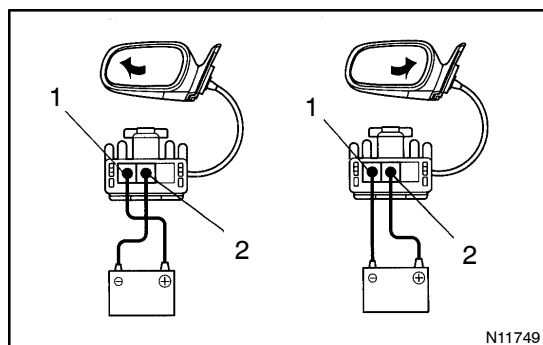
Switch Position	Tester connection	Specified condition
OFF	–	No continuity
UP	1 – 6, 3 – 4	Continuity
DOWN	1 – 3, 4 – 6	Continuity
LEFT	1 – 2, 3 – 4	Continuity
RIGHT	1 – 3, 2 – 4	Continuity

If continuity is not as specified, replace the switch.



2. INSPECT MIRROR MOTOR OPERATION

- Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to terminal 2, and check that the mirror turns upward.
- Reverse the polarity, and check that the mirror turns downward.



- Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, and check that the mirror turns left side.
- Reverse the polarity, and check that the mirror turns right side.

If operation is not as specified, replace the mirror assembly.

AUDIO SYSTEM DESCRIPTION

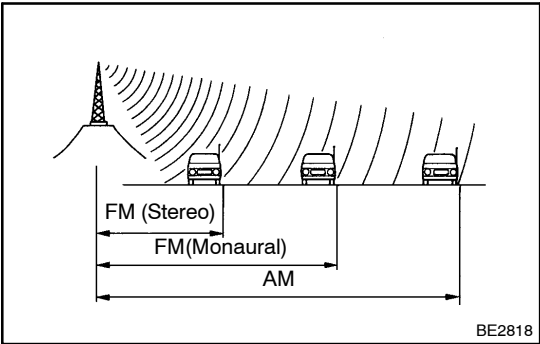
BEQJX-01

1. RADIO WAVE BAND

The radio wave bands used in radio broadcasting are as follows:

Frequency	30 kHz	300 kHz	3 MHz	30 MHz	300 MHz
Designation	LF	MF	HF	VHF	
Radio wave		AM		FM	
Modulation method	Amplitude modulation			Frequency modulation	

LF: Low frequency MF: Medium Frequency HF: High Frequency VHF: Very High Frequency

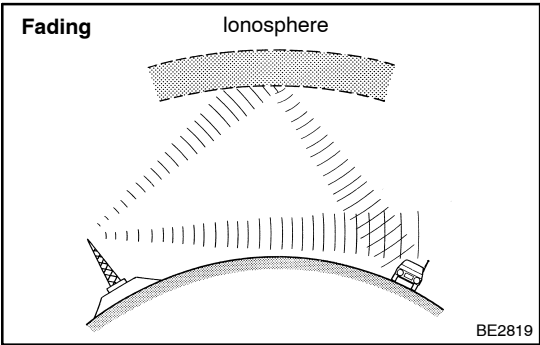


2. SERVICE AREA

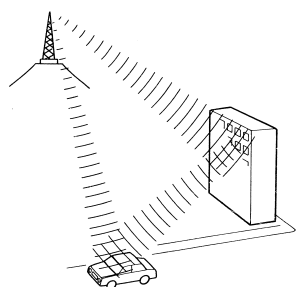
There are great differences in the size of the service area for AM, FM monaural, and FM stereo broadcasts cannot be received even though AM comes in very clearly. Not only does FM stereo have the smallest service area, but it also picks up static and other types of interference ("noise") easily.

3. RECEPTION PROBLEMS

Besides the problem of static, there are also the problems called "fading", "multipath" and "fade out". These problems are caused not by electrical noise but by the nature of the radio waves themselves.

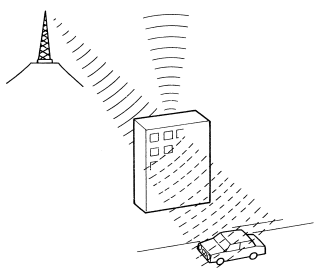


- (1) Fading:
- Besides electrical interference, AM broadcasts are also susceptible to other types of interference, especially at night. This is because AM radio waves bounce off the ionosphere at night. These radio waves then interfere with the signals from the same transmitter that reach the vehicle's antenna directly. This type of interference is called "fading".

Multipath

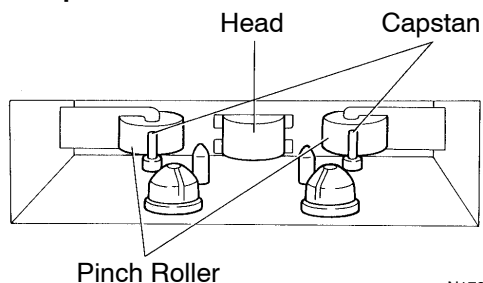
BE2820

- (2) **Multipath:**
One type of interference caused by the bouncing of radio waves off of obstructions is called "multipath". Multipath occurs when a signal from the broadcast transmitter antenna bounces off buildings and mountains and interferes with the signal that is received directly.

Fade Out

BE2821

- (3) **Fade Out:**
Because FM radio waves are of higher frequencies than AM radio waves, they bounce off buildings, mountains, and other obstructions. For this reason, FM signals often seem to gradually disappear or fade away as the vehicle goes behind a building or other obstruction. This is called "fade out".

Example

N17398

4. **Tape Player/Head Cleaning:** **MAINTENANCE**

- (a) Raise the cassette door with your finger. Then, using a pencil or like object, push in the guide.
- (b) Using a cleaning pen or cotton applicator soaked in cleaner, clean the head surface, pinch rollers and capstans.

TROUBLESHOOTING

NOTICE:

When replacing the internal mechanism (computer part) of the audio system, be careful that no part of your body or clothing comes in contact with the terminals of the leads from the IC etc. of the replacement part (spare part).

HINT:

This inspection procedure is a simple troubleshooting which should be carried out on the vehicle during system operation and was prepared on the assumption of system component troubles (except for the wires and connectors, etc.).

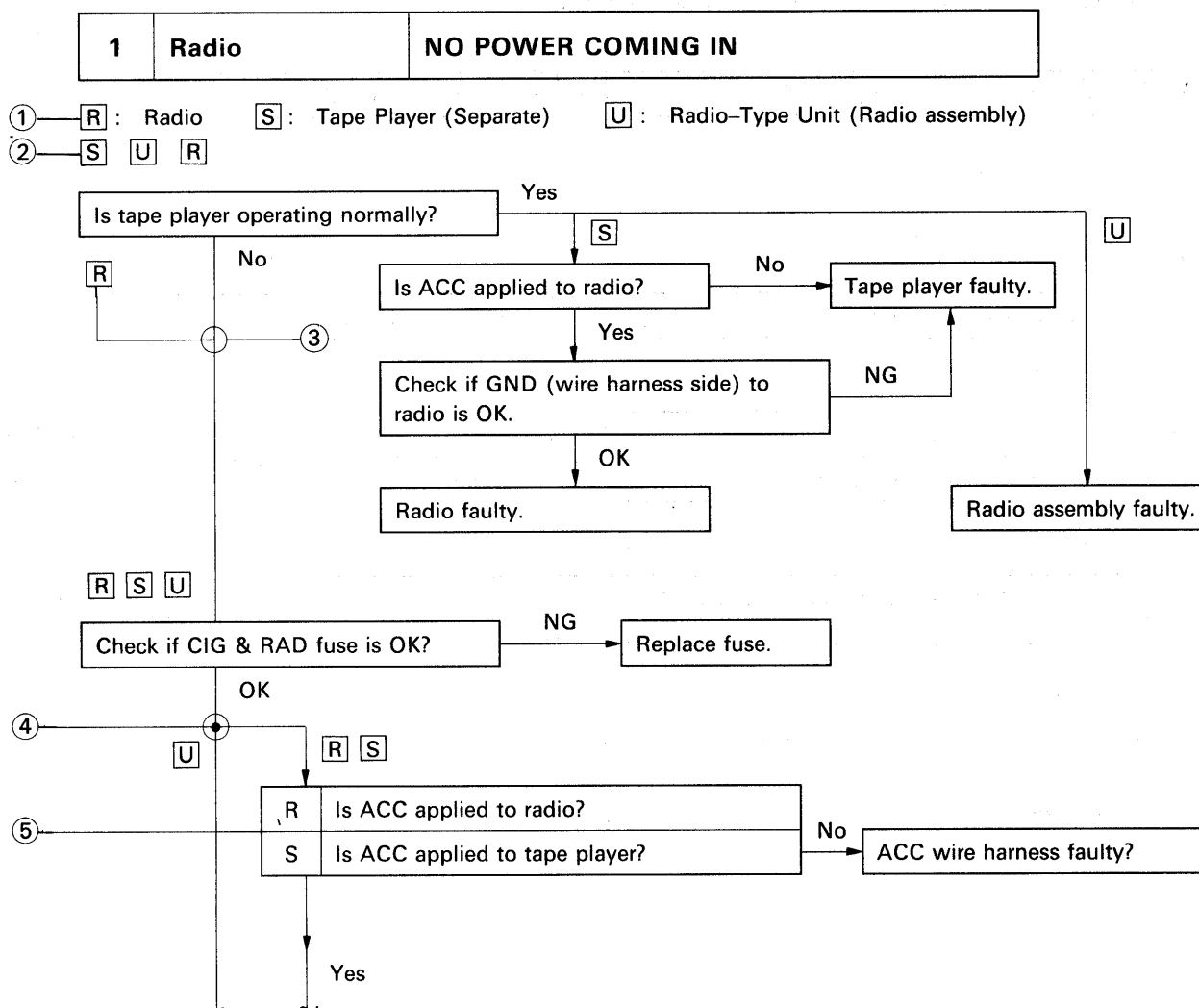
Always inspect the trouble taking the following items into consideration.

- Open or short circuit of the wire harness
- Connector or terminal connection fault

	Problem	No.
Radio	No power coming in.	1
	Power coming in, but radio not operating.	2
	Noise present, but AM – FM not operating.	3
	Either speaker does not work.	4
	Either AM or FM does not work.	5
	Reception poor (Volume faint).	5
	Few preset tuning bands.	5
	Sound quality poor.	6
	Cannot set station select button.	6
	Preset memory disappears.	7
Tape Player	Cassette tape cannot be inserted.	8
	Cassette tape inserted, but no power.	9
	Power coming in, but tape player not operating.	10
	Either speaker does not work.	11
	Sound quality poor (Volume faint).	12
	Tape jammed, malfunction with tape speed or auto–reverse.	13
	APS, SKIP, RPT buttons not operating.	14
	Cassette tape will not ejected.	15
Antenna	Antenna–related.	16
Noise	Noise produced by vibration or shock while driving.	17
	Noise produced when engine starts.	18

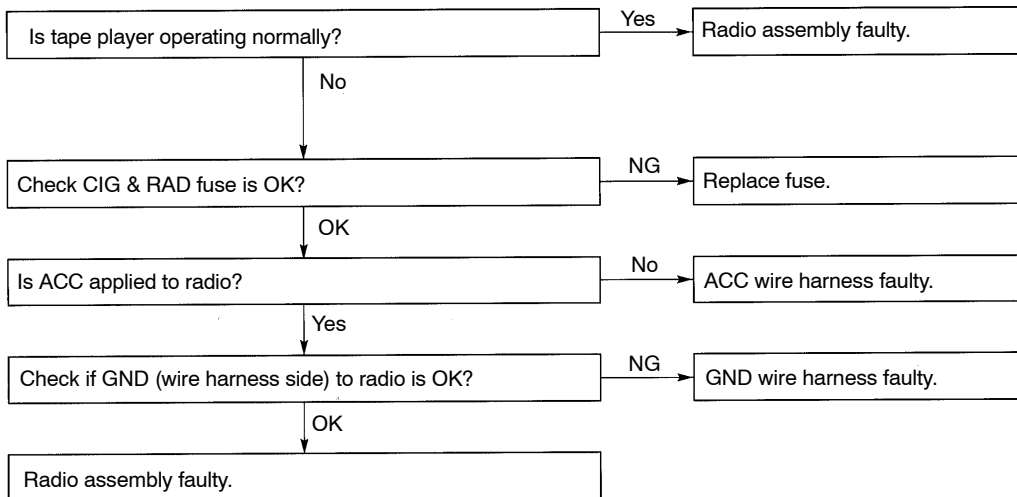
HOW TO USE DIAGNOSTIC CHART

Reference:



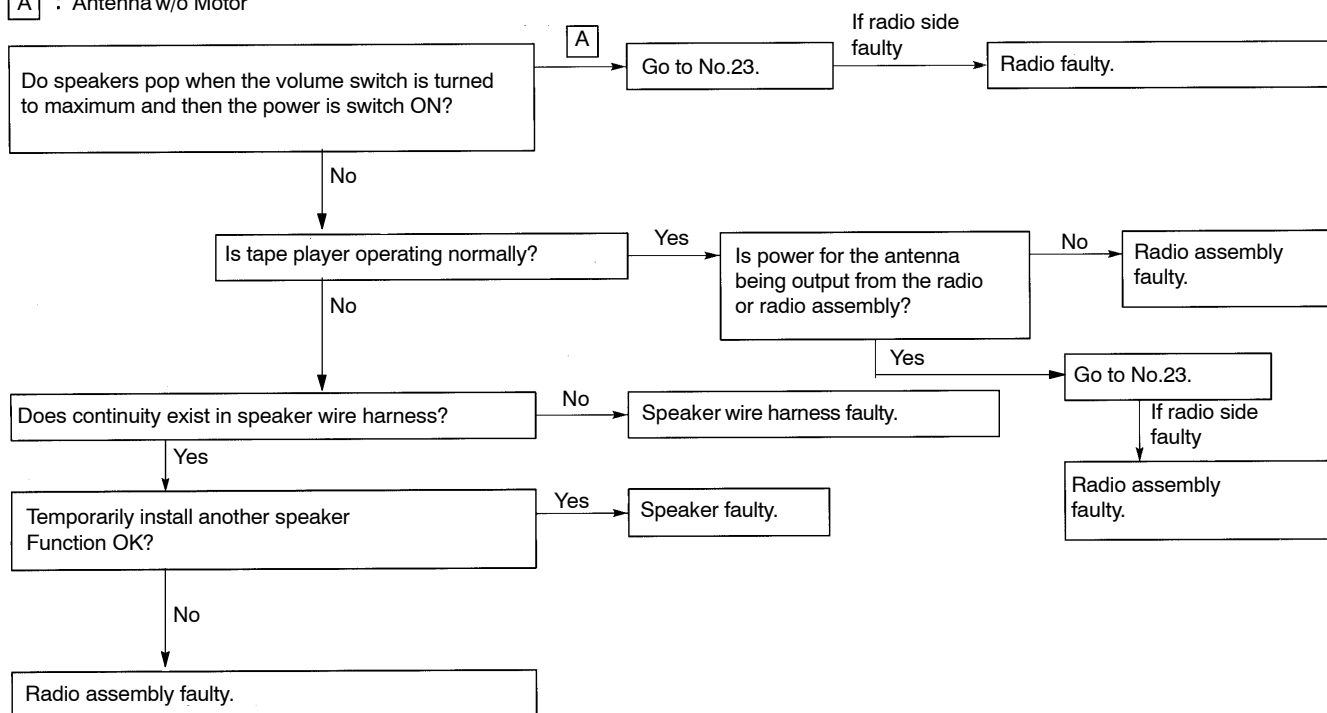
- ① Audio system type and symbol used.
HINT: Confirm the applicable type of audio system.
- ② Symbol for type of audio system the question applies to.
HINT: If the audio system type is not applicable, proceed to next question below.
- ③ Junction without black circle.
HINT: Proceed to next question below.
- ④ Junction with black circle.
HINT: Proceed to question for applicable audio system type.
- ⑤ HINT: Select question for applicable audio system type.

1	Radio	NO POWER COMING IN
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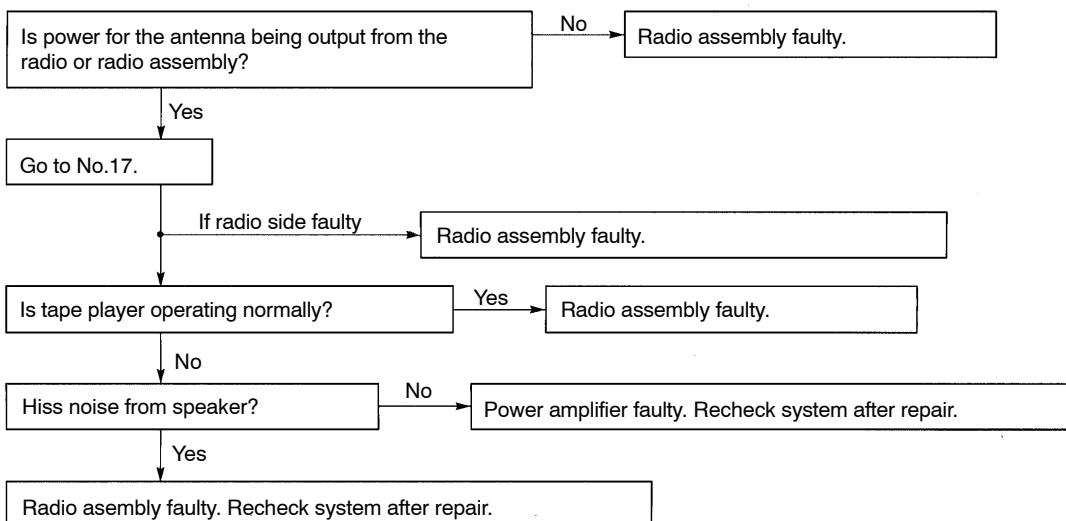


2	Radio	POWER COMING ON, BUT RADIO NOT OPERATING
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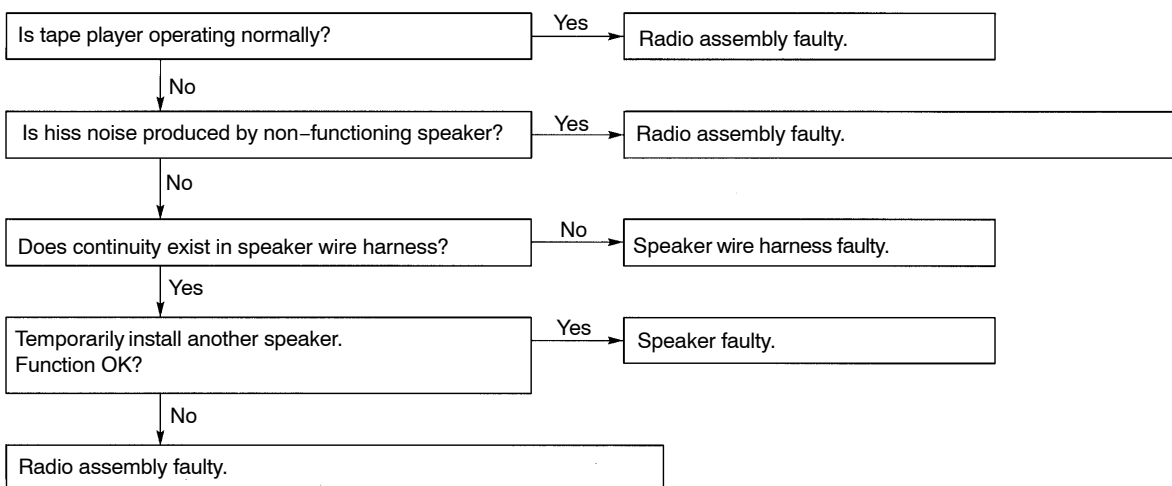
A : Antenna w/o Motor



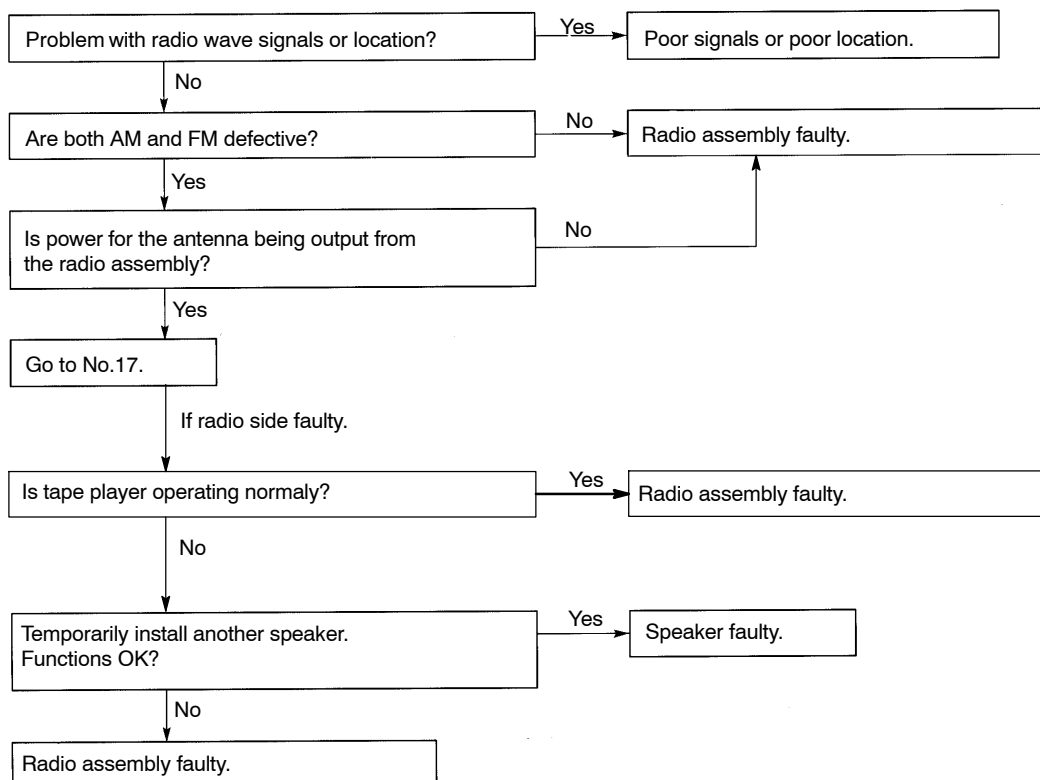
3	Radio	NOISE PRESENT, BUT AM-FM NOT OPERATING
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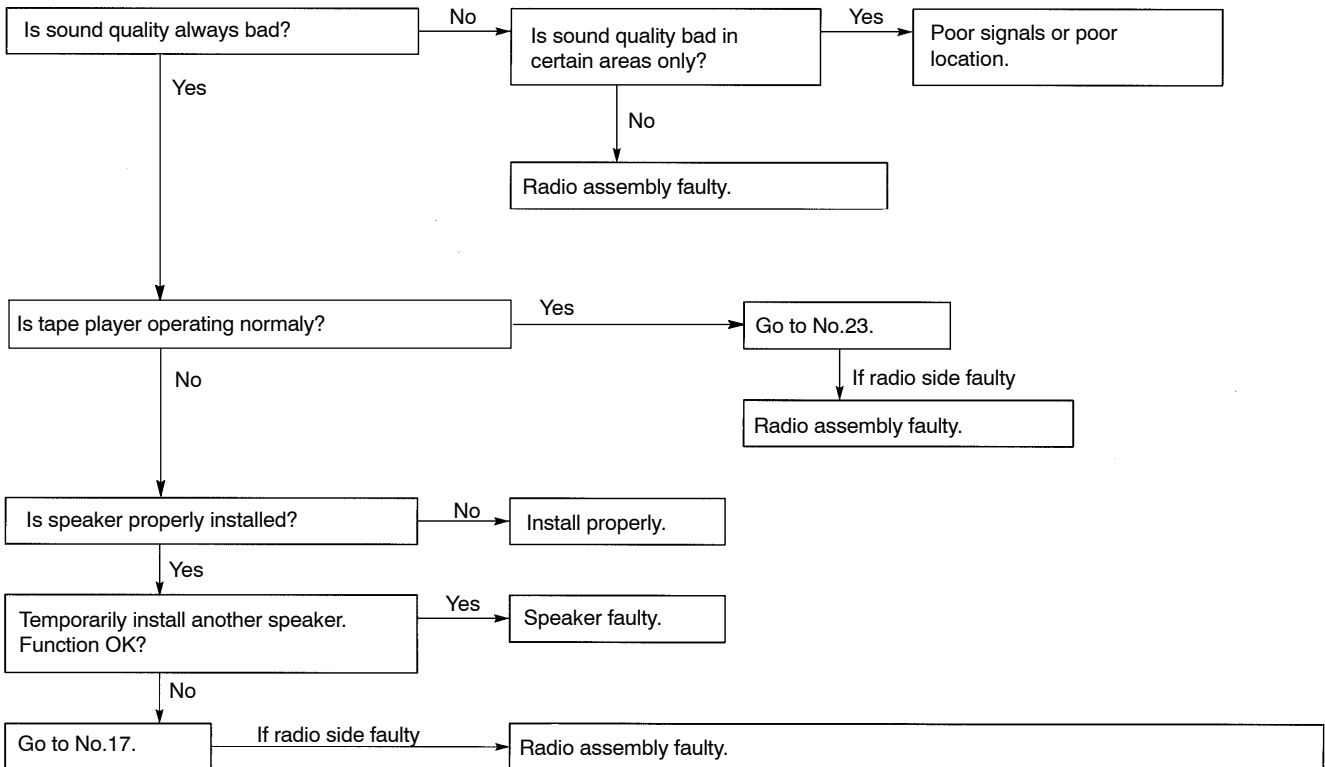
4	Radio	EITHER SPEAKER DOES NOT WORK
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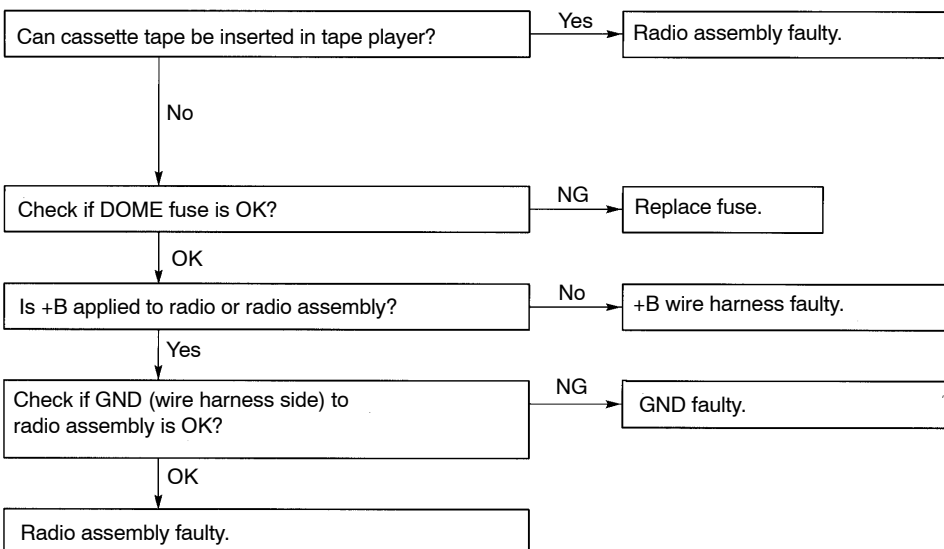
5	Radio	EITHER AM OR FM DOES NOT WORK, RECEPTION POOR (VOLUME FAINT), FEW PRESET TUNING BANDS
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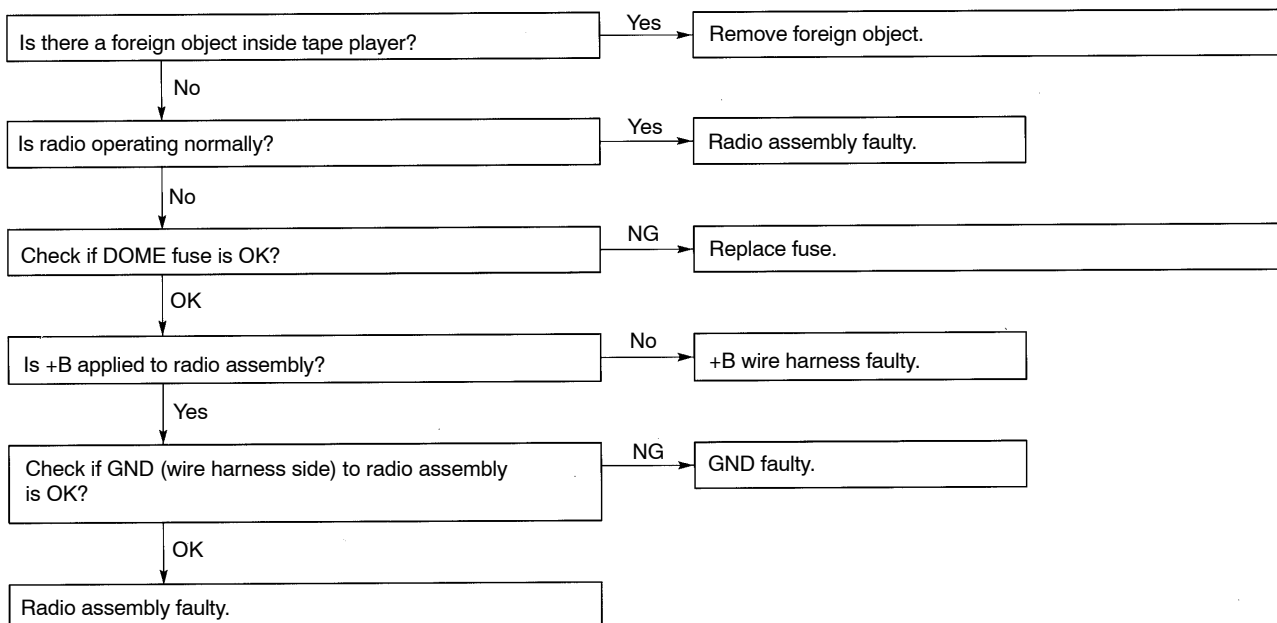
6	Radio	SOUND QUALITY POOR
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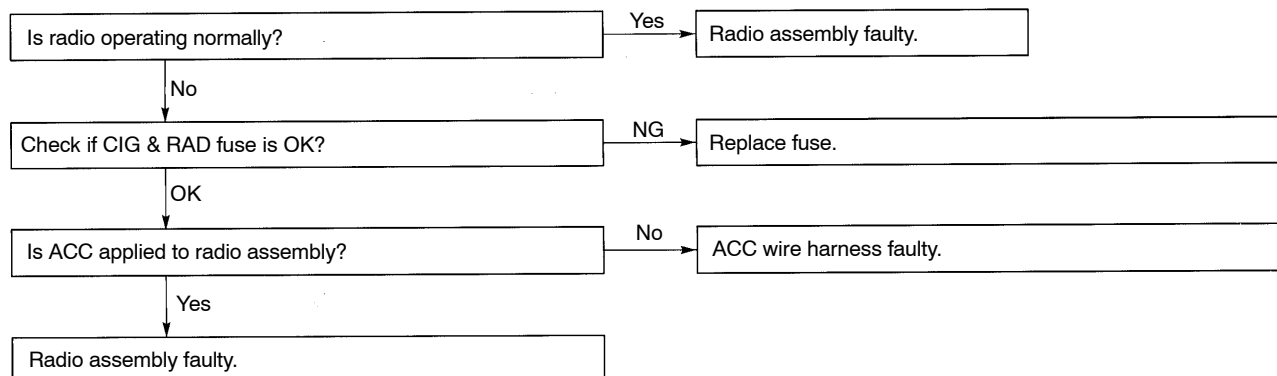
7	Radio	CANNOT SET STATION SELECT BUTTON, PRESET MEMORY DISAPPEARS
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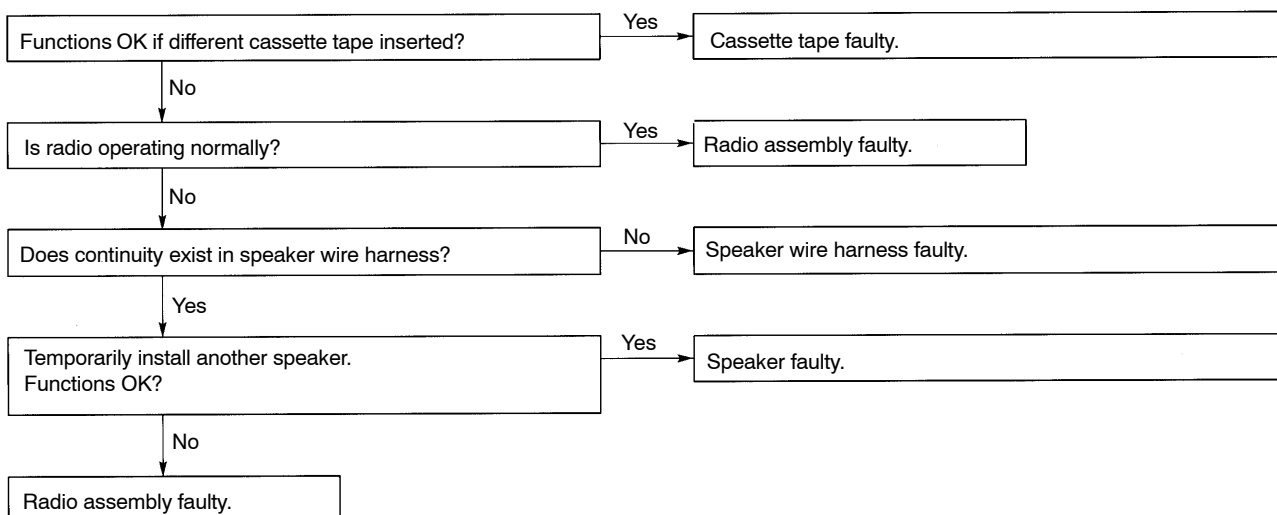
8	Tape Player	CASSETTE TAPE CANNOT BE INSERTED
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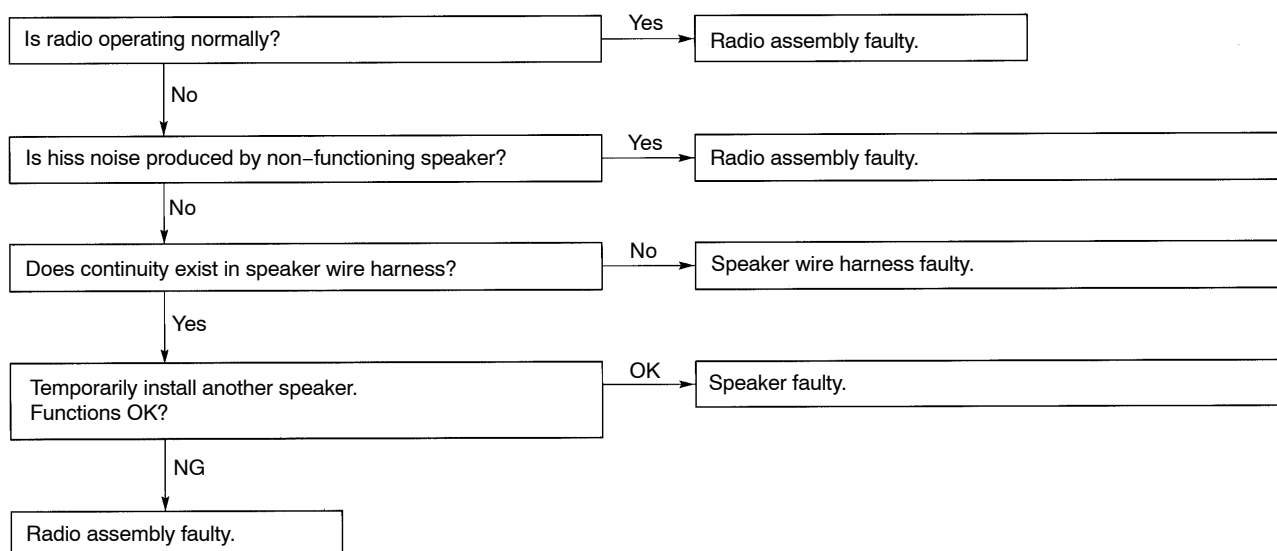
9	Tape Player	CASSETTE TAPE INSERTED, BUT NO POWER
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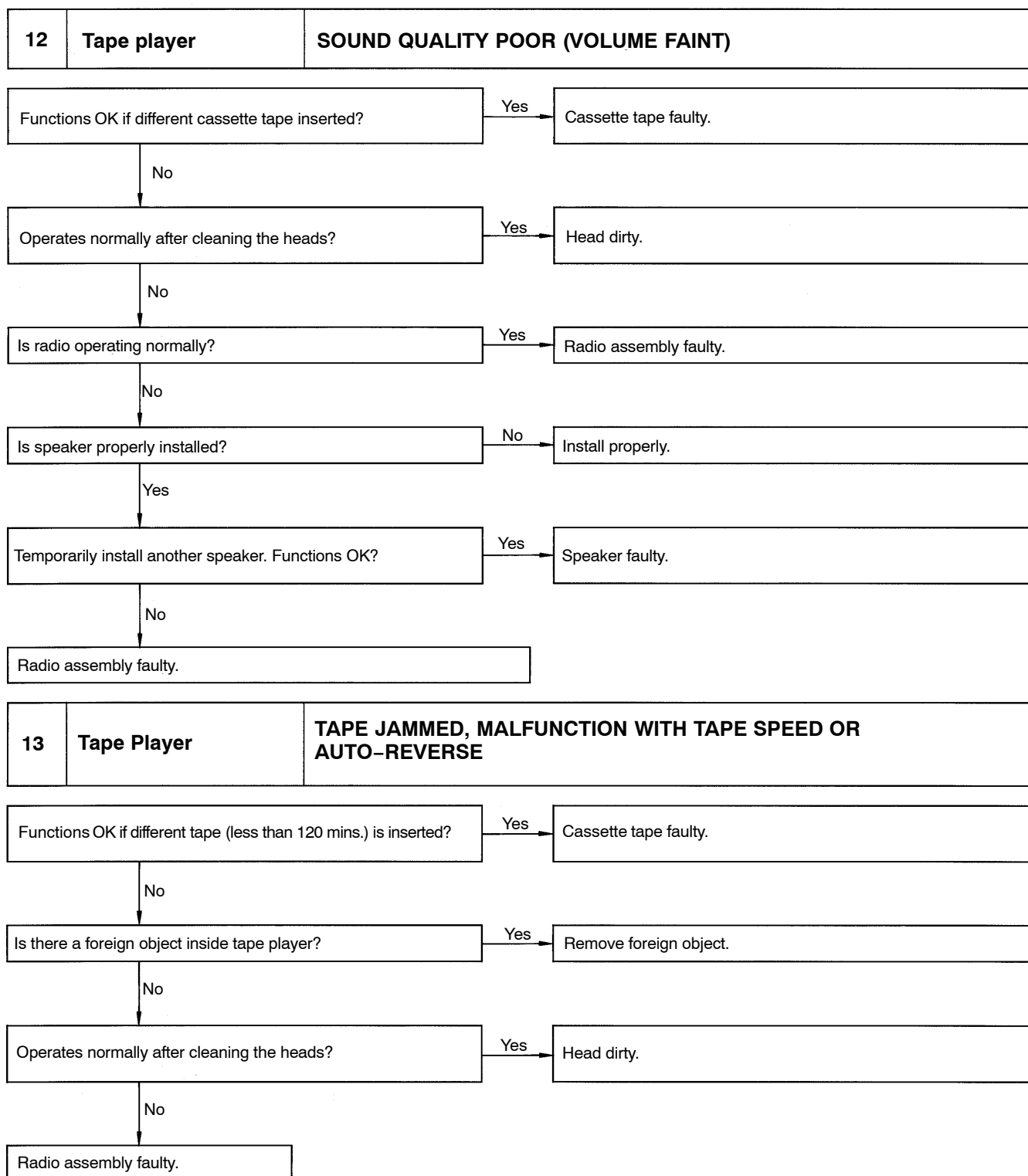


10	Tape Player	POWER COMING IN, BUT TAPE PLAYER NOT OPERATING
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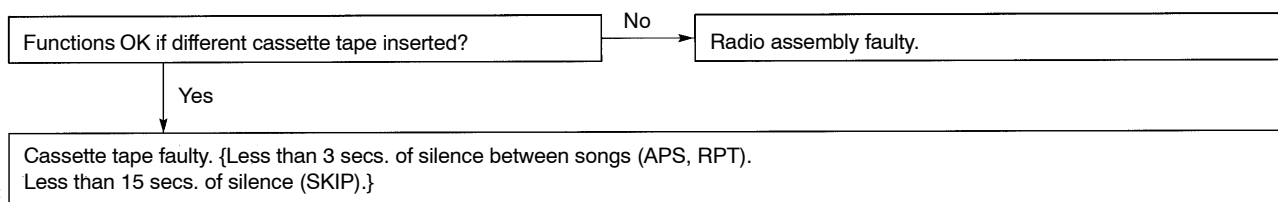


11	Tape Player	EITHER SPEAKER DOES NOT WORK
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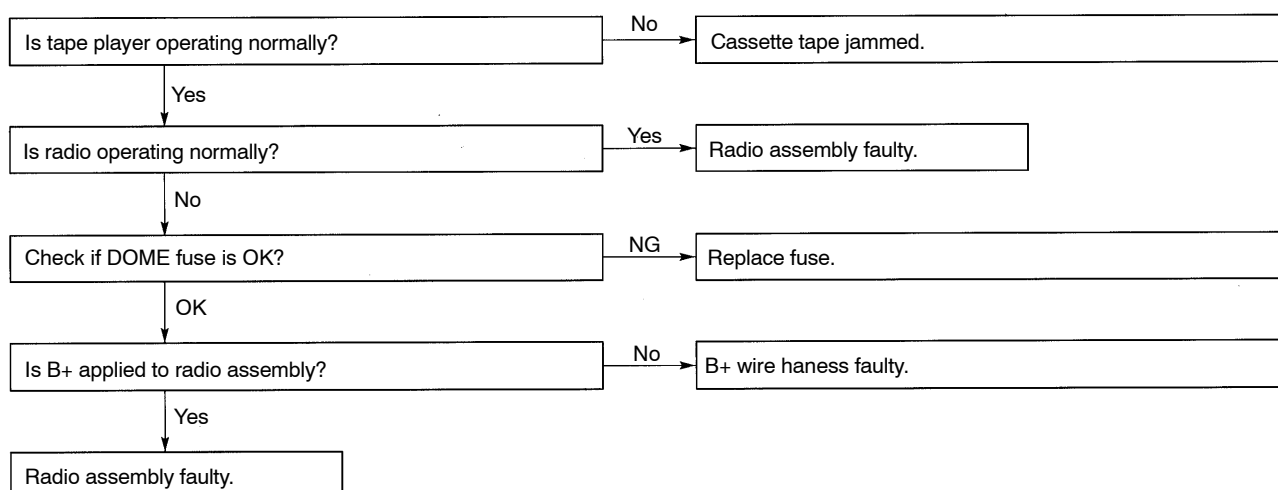




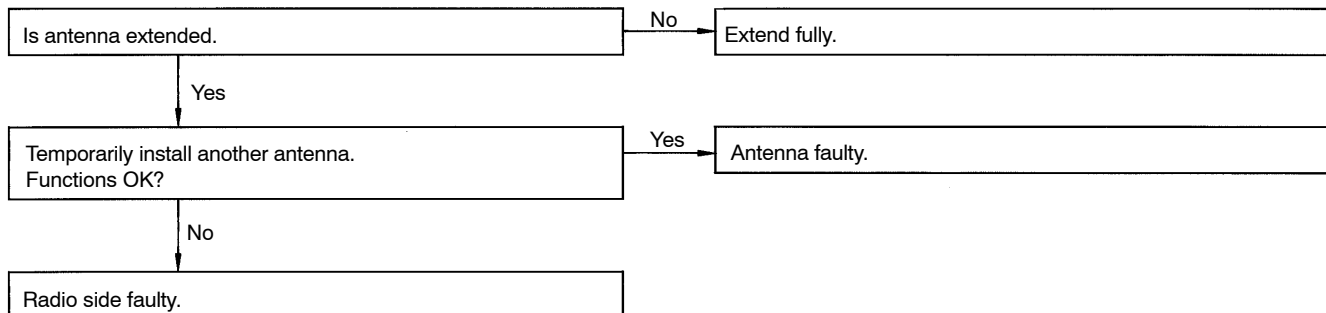
14	Tape Player	APS, SKIP, RPT BUTTONS NOT OPERATING
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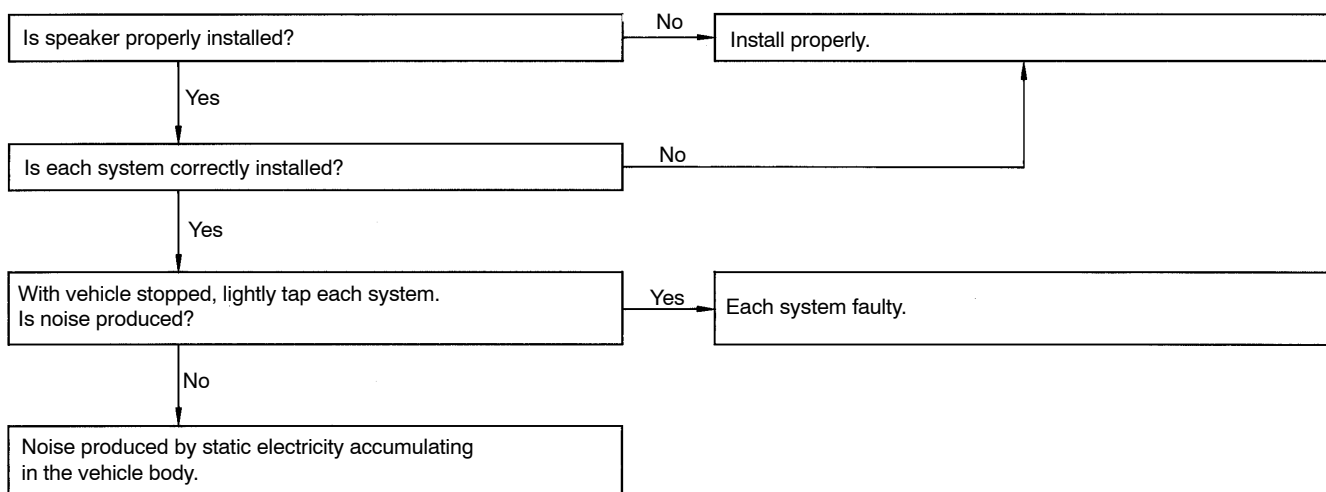
15	Tape Player	CASSETTE TAPE WILL NOT BE EJECTED
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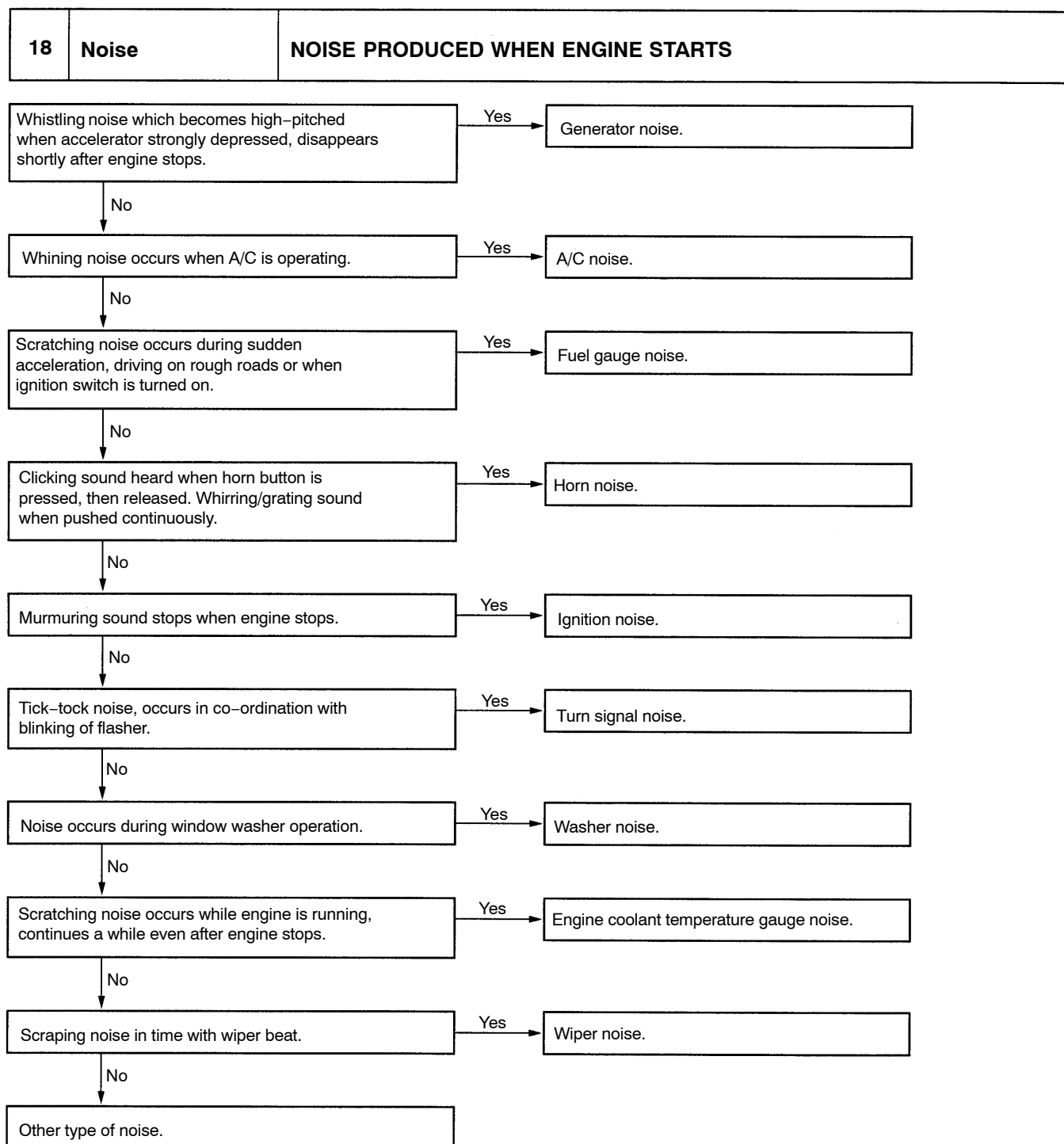


16	Antenna	ANTENNA-RELATED
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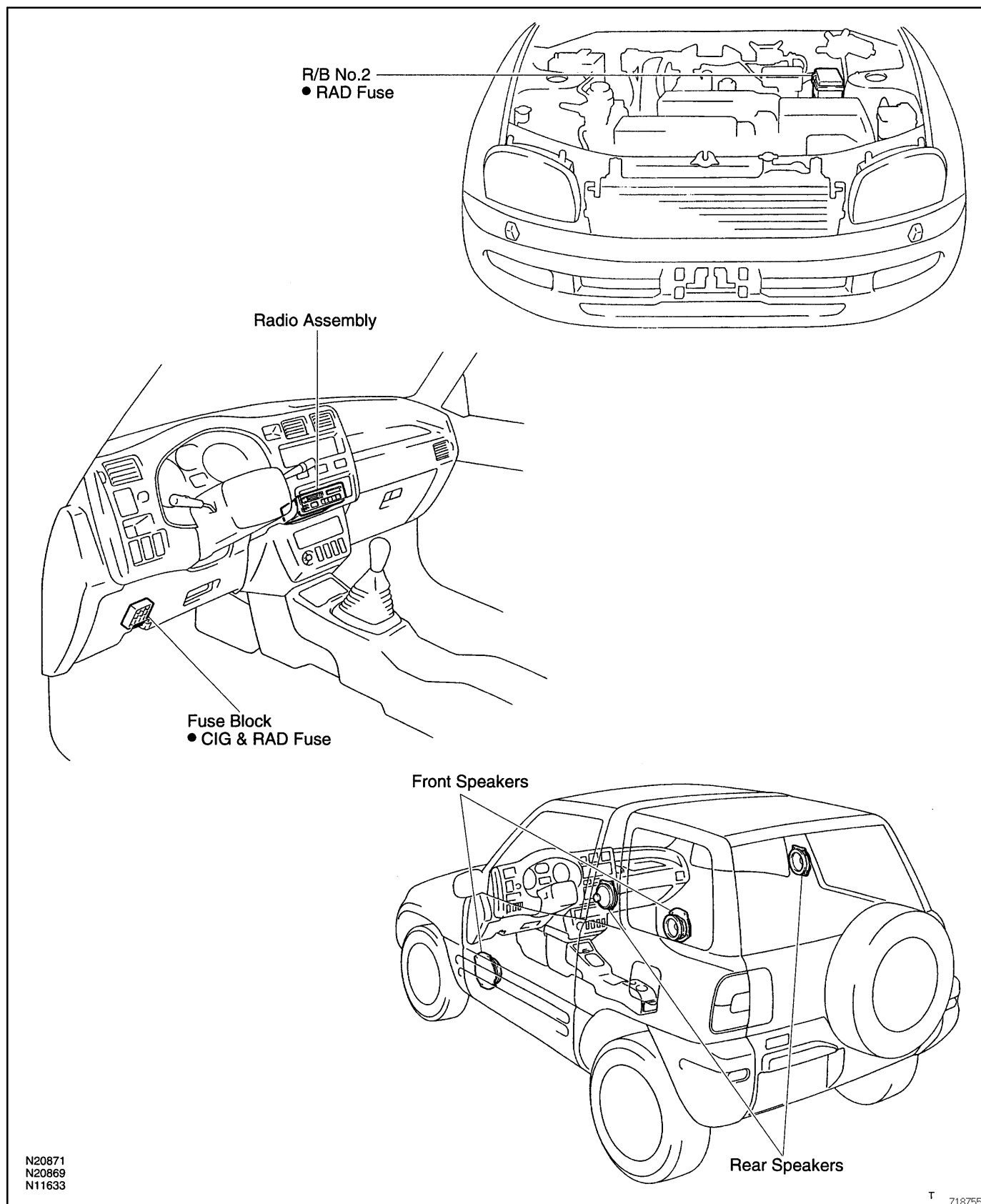
17	Noise	NOISE PRODUCED BY VIBRATION OR SHOCK WHILE DRIVING
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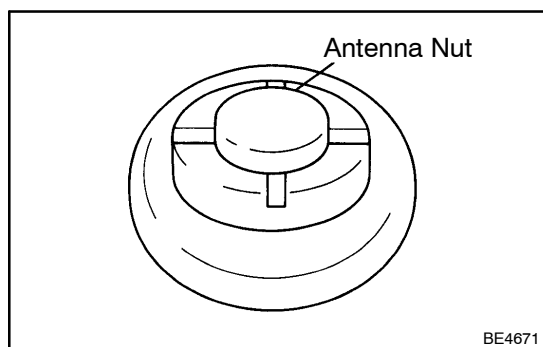




V08467

LOCATION





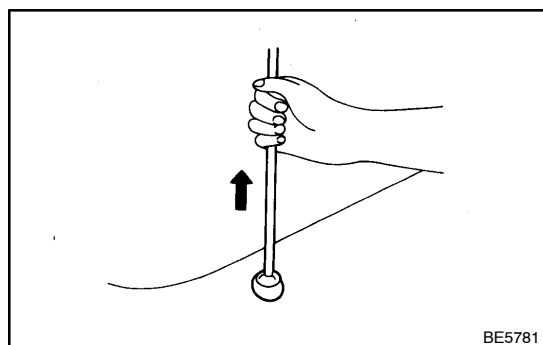
REMOVAL

REMOVE ANTENNA ROD

HINT:

Perform this operation with the negative (-) terminal cable connected to the battery.

- (a) Turn the ignition switch to the "LOCK" position.
- (b) Remove the antenna nut.



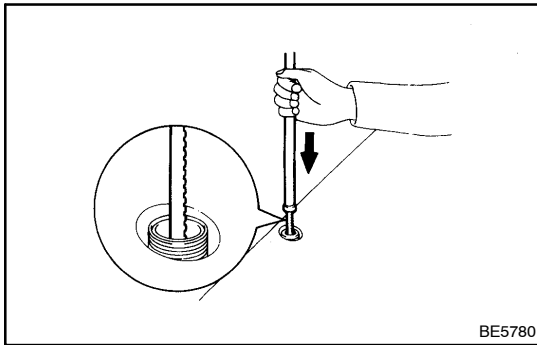
- (c) Press the "AM" buttons on the radio receiver, and simultaneously turn the ignition switch to the "ACC" position.

HINT:

- The rod will extend fully and be released from the motor antenna.
- After removing the antenna rod, leave the ignition switch at "ACC".

NOTICE:

TO prevent body damage when the antenna rod is released, hold the rod while it comes out.



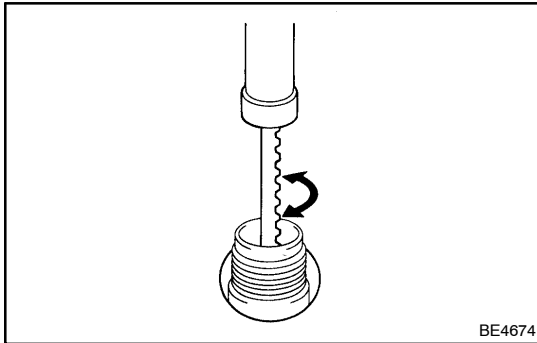
INSTALLATION

INSTALL ANTENNA ROD

(a) Insert the cable of the rod until it reaches the bottom.

HINT:

- When inserting the cable, the teeth on the cable must face toward the front of the vehicle.
- Insert the antenna approx. 300 mm (11.8 in.)



(b) Wind the cable to retract the rod by turning the ignition switch to the "LOCK" position.

HINT:

- If the ignition switch is already in the "LOCK" position, perform step 1 (c) first, then turn the ignition switch to the "ACC" position.
- In case the cable is not wound, twist it as shown in the illustration.
- Even if the rod has not retracted fully, install the antenna nut and inspect the antenna rod operation. It will finally retract fully.

(c) Inspect the antenna rod operation by pushing the radio wave band select buttons.