

# Troubleshooting

## Precautions

1. When checking voltage, resistance, etc., use a high impedance type tester (It is impossible with a simple tester).
2. When the ignition switch is turned to START, all meters will go out but this is normal.
3. When replacing the internal mechanism (computer parts) of the meter, 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 parts (spare parts).
4. Do not disconnect the battery while the engine is running as this would cause an instant reverse charge, resulting in damage to the components.
5. Always disconnect the battery terminals before pulling apart connectors or terminals.
6. To prevent damage, handle meters with care.

## Combination Meter

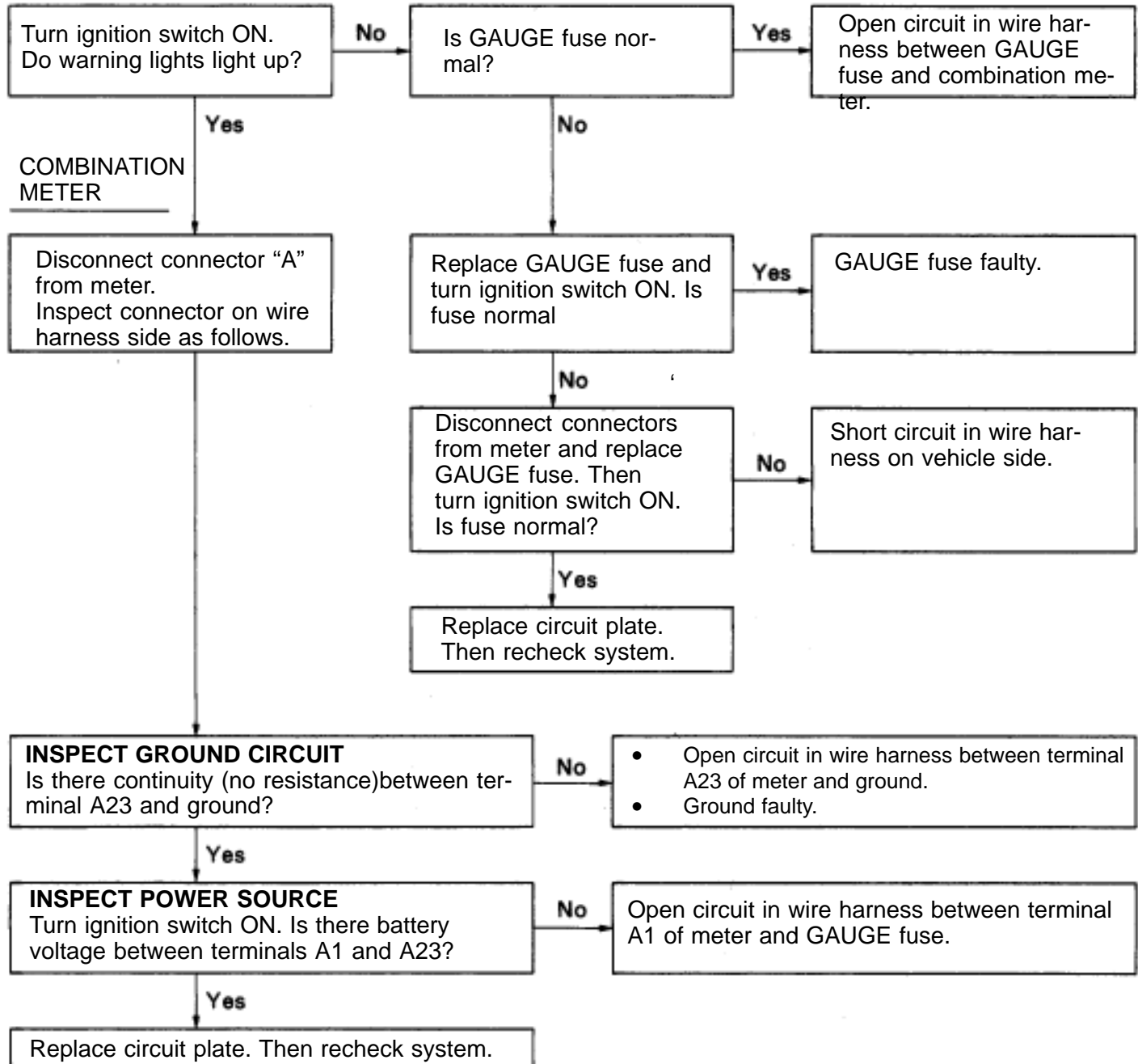
	Trouble	Refer to
All Meters, Gauges, and Illuminations	No display at all.	1
	The four indicator needles do not light up.	Replace circuit plate
	One indicator needle does not light up.	2
	The entire character plate is not illuminated at all.	Replace circuit plate
	The character plate is illuminated on one side only.	3
	Brightness does not change even when light control switch is operated (OFF ↔ TAIL).	4
	Brightness does not change even when rheostat volume is turned.	5
	Remains dimmed when the light control switch is turned OFF.	Replace circuit plate
	Does not go out while starter running.	6
Speedometer	Speedometer does not operate while driving.	7
	Display is faulty.	Replace Meter Lens
	Vehicle speed signal (4P) faulty.	8
Tachometer	Tachometer does not operate while engine running.	9
	Display is faulty.	Replace Meter Lens
Fuel gauge	Does not operate or operation is abnormal.	10
Fuel Level Warning	Warning light does not light up or always lights up.	11

## Troubleshooting/Combination Meter (Cont'd)

Trouble		Refer to
Water Temperature Gauge	Does not operate or operation is abnormal.	12
Odometer and twin trip meter	Display does not alter during driving.	13
	Display is reset whenever ignition switch is turned off.	14
	Abnormal display	Replace Odometered trip meter
Engine Oil Level Warning	Warning light does not light up.	15
	Warning light always lit up.	16
ECT PWR Indicator	Abnormal operation or indicator does not light up.	17
CRUISE MAIN Indicator	Abnormal operation or indicator does not light up.	18
O/D OFF Indicator	Abnormal operation or indicator does not light up.	19
Shift Position Indicator	Abnormal operation or indicator does not light up.	20
TRAC OFF Indicator	Abnormal operation or indicator does not light up.	21
ABS Warning	Abnormal operation or warning does not light up.	22
Coolant Level Warning	Abnormal operation or warning does not light up.	23
HI-Beam Indicator	Abnormal operation or indicator does not light up.	24
Turn Signal Indicator	Abnormal operation or indicator does not light up.	25
Seat Belt Warning Chime	Abnormal operation or chime does not operate.	See page <a href="#">BE-120</a>
Key Unlock Warning Chime	Abnormal operation or chime does not operate.	See page <a href="#">BE-120</a>
Window Washer Warning	Abnormal operation or warning does not light up.	26

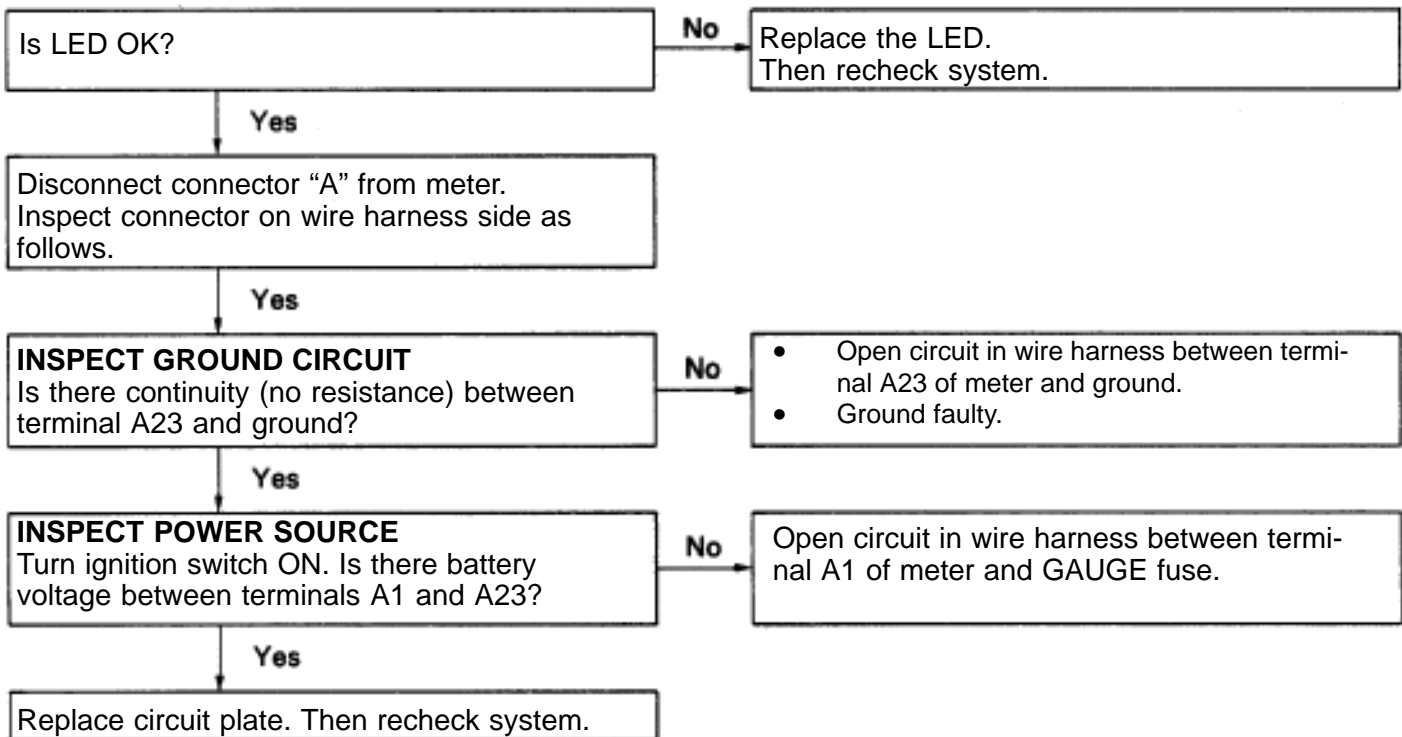
<b>1</b>	<b>ALL METERS, GAUGES, AND ILLUMINATIONS</b>	<b>No display at all.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



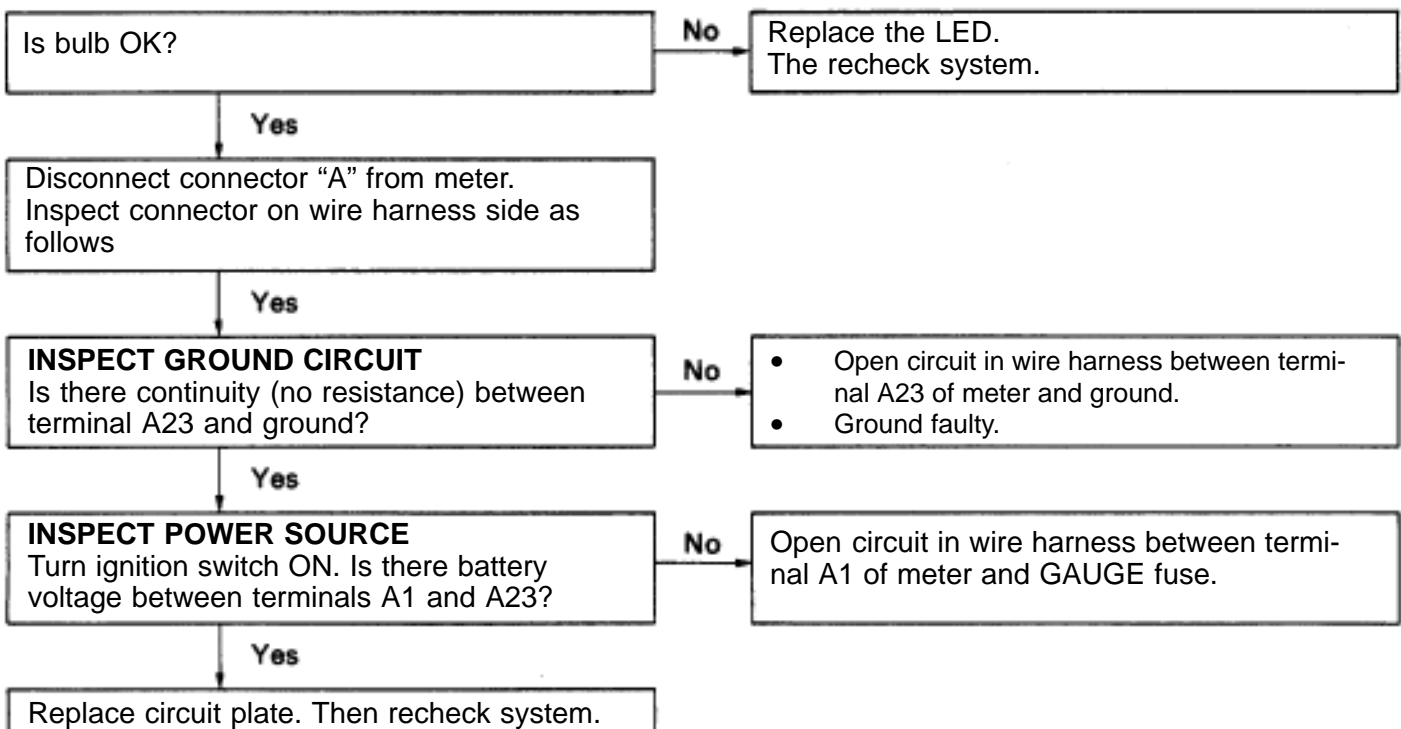
<b>2</b>	<b>ALL METERS, GAUGES, AND ILLUMINATIONS</b>	<b>One indicator needle does not light up.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



<b>3</b>	<b>ALL METERS, GAUGES, AND ILLUMINATIONS</b>	<b>The character plate is illuminated on one side</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



<b>4</b>	<b>ALL METERS, GAUGES, AND ILLUMINATIONS</b>	<b>Brightness does not change even when light control switch is operated. (OFF ↔ TAIL)</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

COMBINATION  
METER \_\_\_\_\_

Disconnect connector "A" from meter.  
Inspect connector on wire harness side as follows.

**INSPECT TAILLIGHT SIGNAL CIRCUIT**  
Does voltage change between terminal A2 and ground as follows?

Condition		Voltage
Light control switch position	OFF	No voltage
	TAIL or HEAD	Battery voltage

No

Taillight signal circuit faulty on vehicle side.  
Inspect illumination light system.

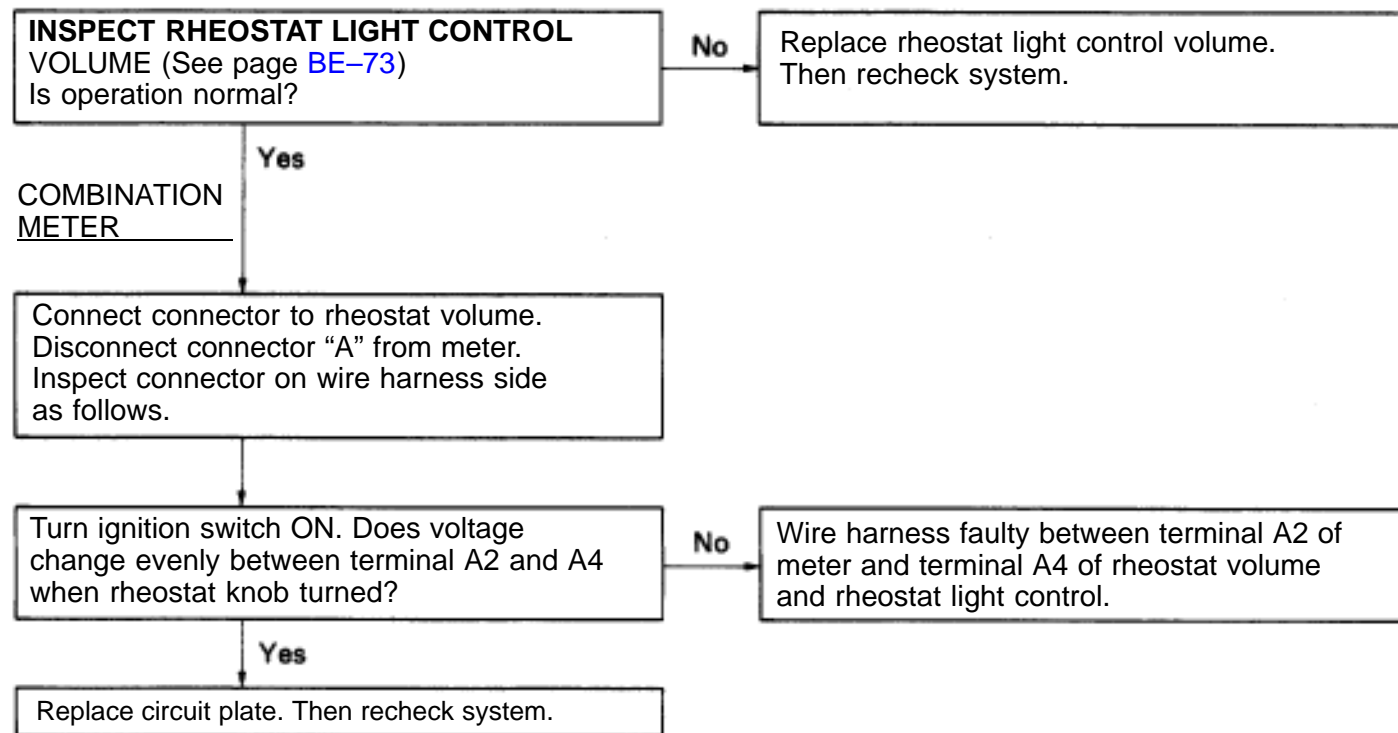
Yes

Replace circuit plate. Then recheck system.

<b>5</b>	<b>ALL METERS, GAUGES, AND ILLUMINATIONS</b>	<b>Brightness does not change even when rheostat volume is turned.</b>
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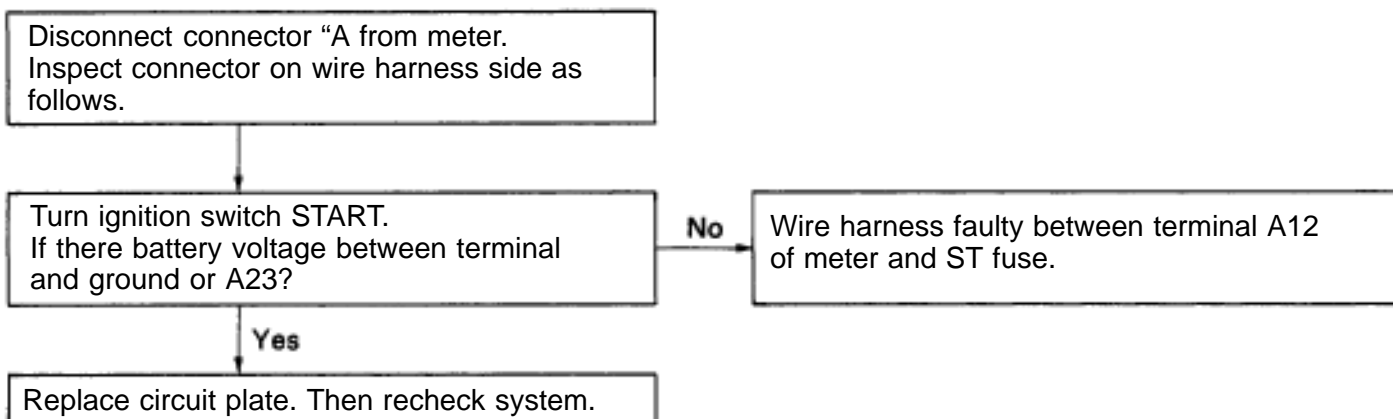
HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

**RHEOSTAT LIGHT  
CONTROL VOLUME**



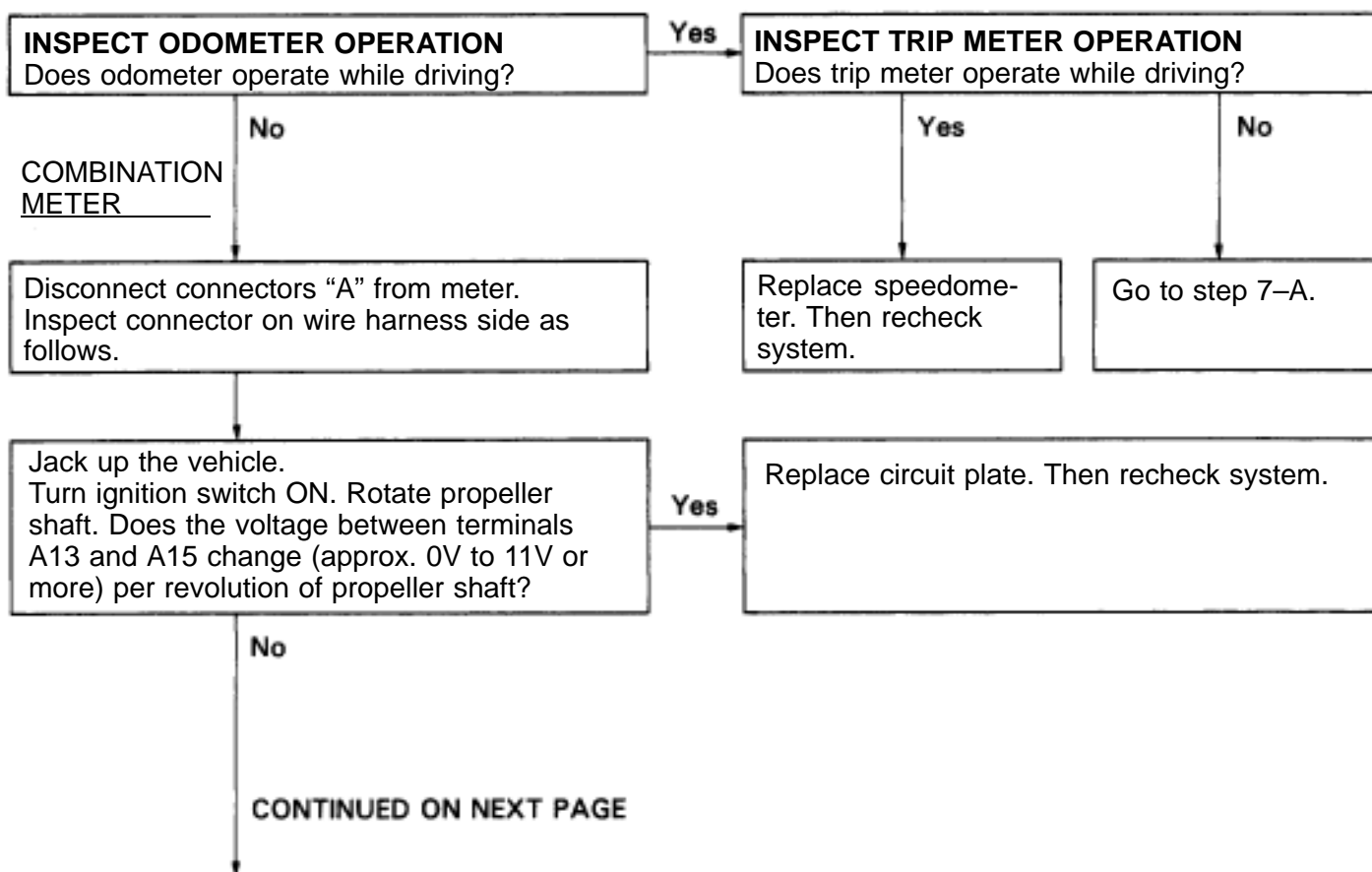
<b>6</b>	<b>ALL METERS, GAUGES, AND ILLUMINATIONS</b>	<b>Does not go out while starter running.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



<b>7</b>	<b>SPEEDOMETER</b>	<b>Speedometer does not operate while driving.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



SPEED SENSOR

CONTINUED FROM PREVIOUS PAGE

**INSPECT SPEED SENSOR OPERATION  
(SEE PAGE be-110)**

Is operation normal?

No

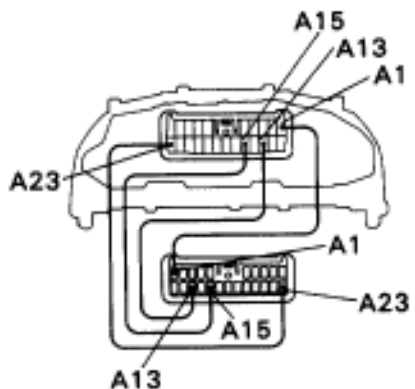
Replace speed sensor. Then recheck system.

Yes

- Inspect speed sensor
- Inspect wire harness between terminal A13 A15 and speed sensor

**7-A****COMBINATION  
METER**

Wire Harness Side Connectors



BE5328

- Remove combination meter, and connect the wire harness side connector terminals A1, A13, A15, and A23 to the meter side connectors by lead wire.
- Jack up the vehicle and turn the ignition switch ON.
- Rotate propeller shaft.
- Does the voltage between terminal A13 and A15 change (approx. 0V to 11V or more) per revolution of propeller shaft?

Yes

Replace speedometer. Then recheck system.

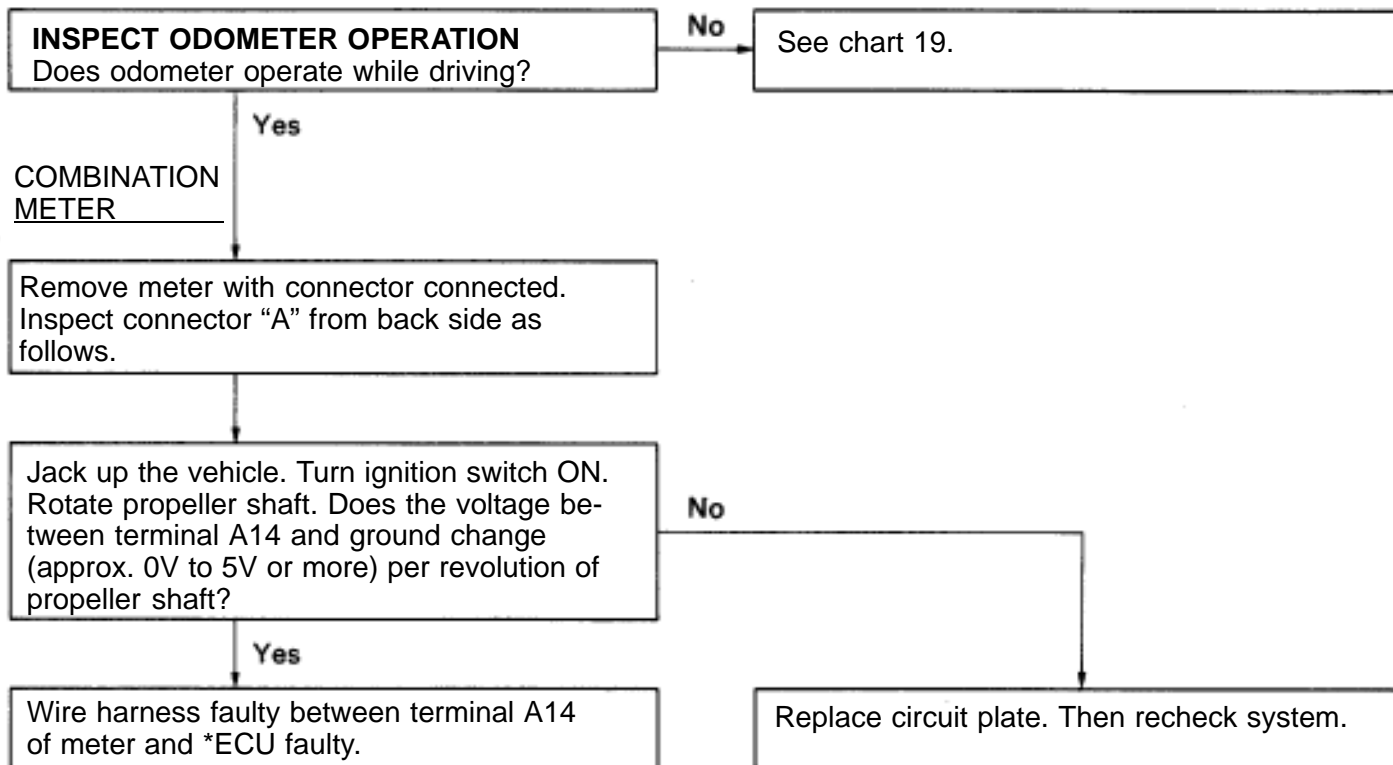
No

Replace circuit plate. Then recheck system.

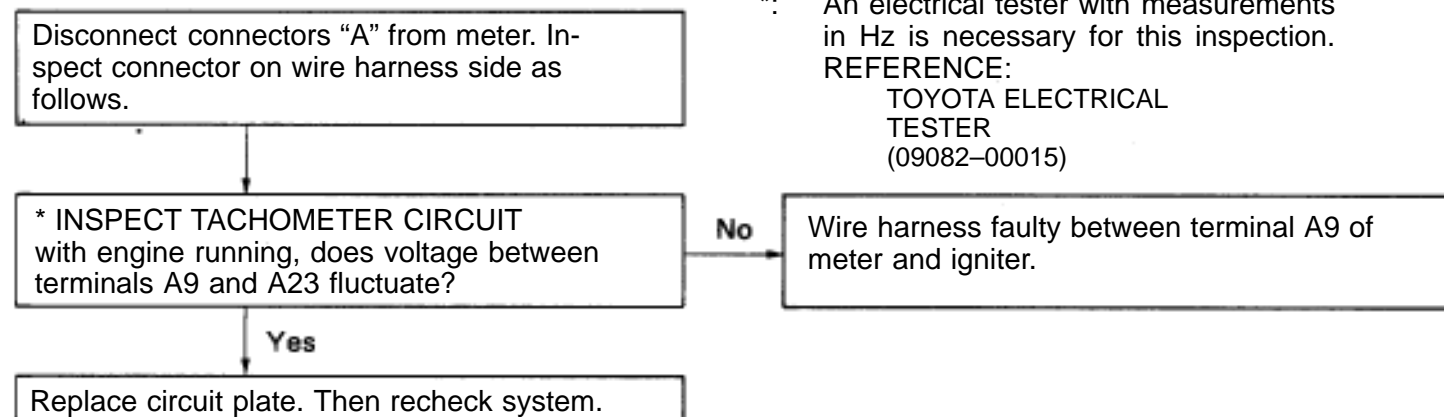


**8 SPEEDOMETER****Vehicle speed signal (4P) faulty.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

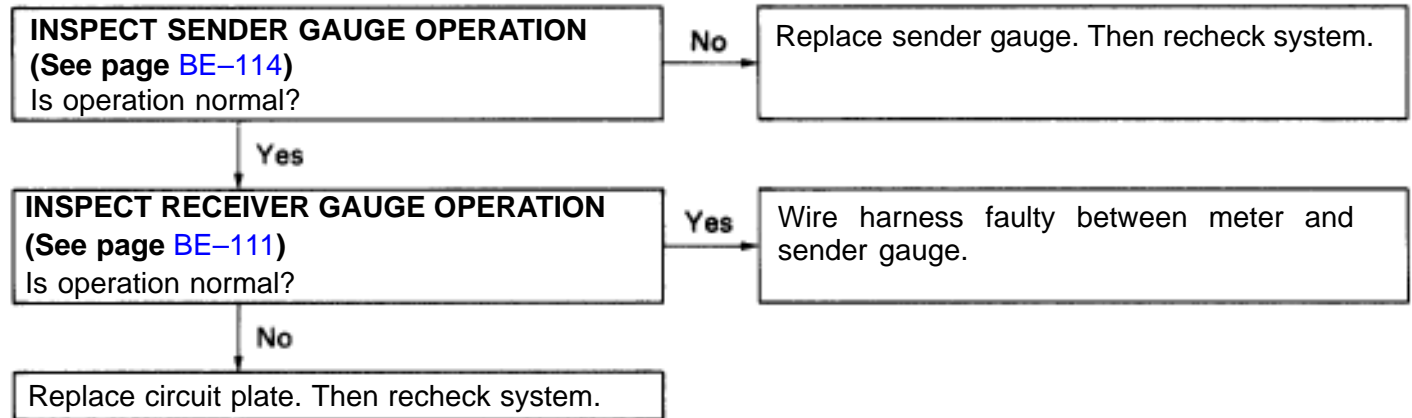
**9 TACHOMETER****Tachometer does not operate while engine running.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



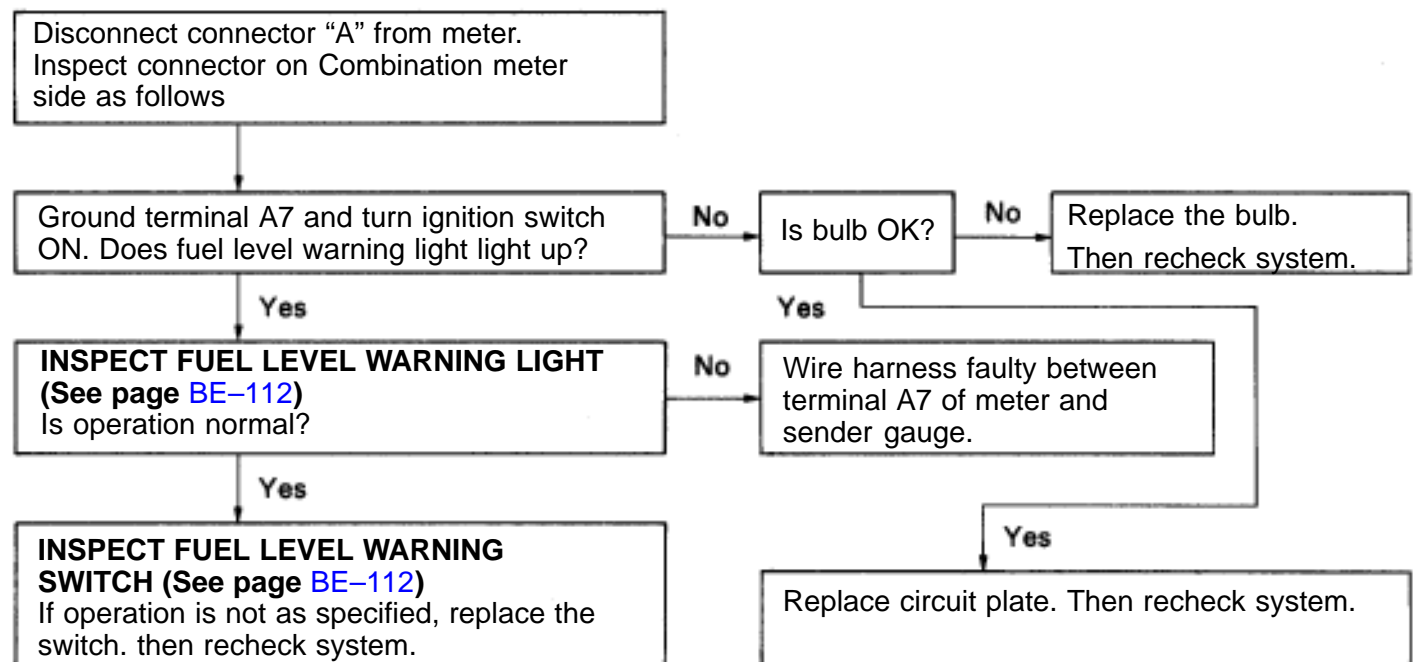
<b>10</b>	<b>FUEL GAUGE</b>	<b>Does not operate or operation is abnormal.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



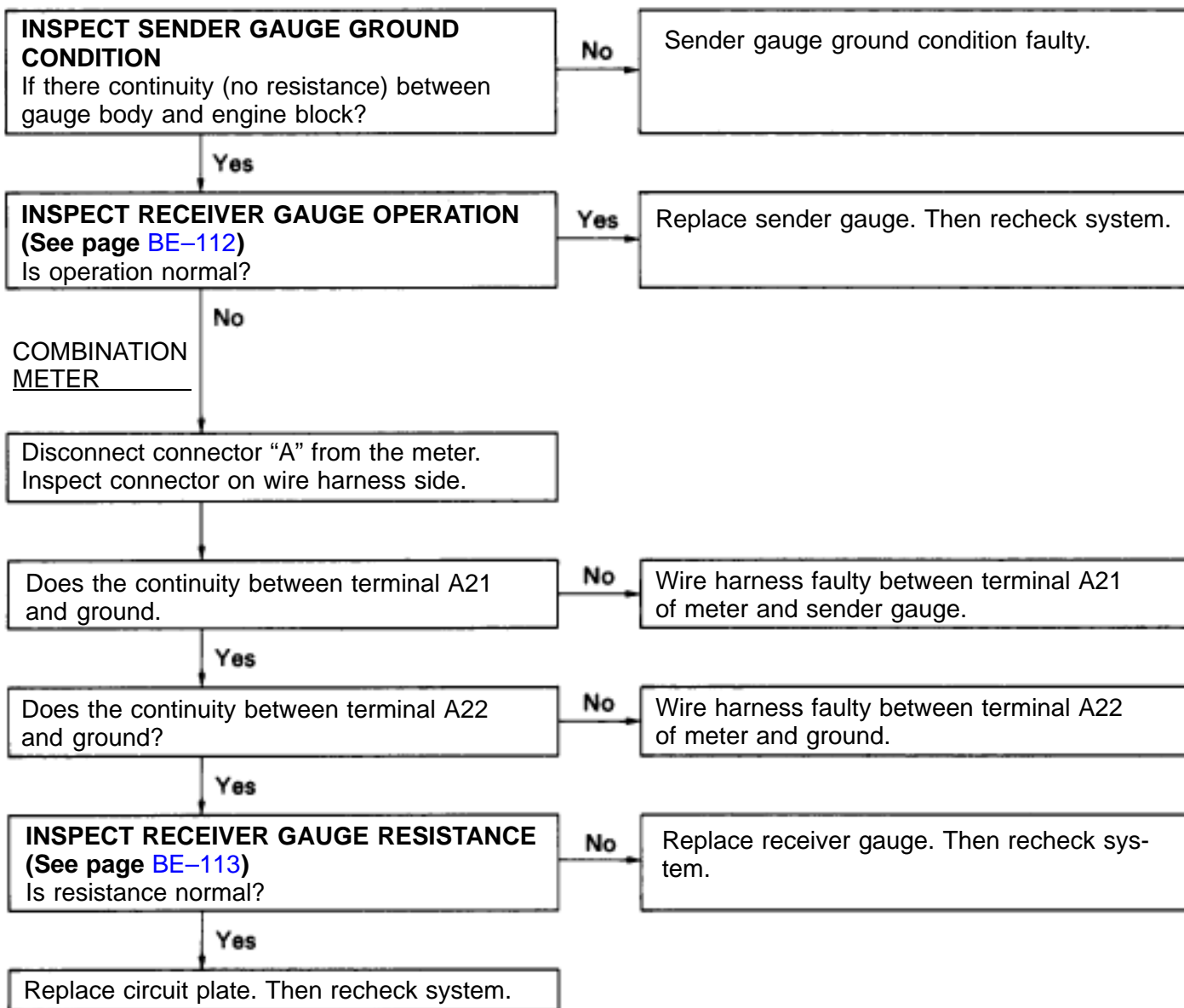
<b>11</b>	<b>FUEL LEVEL WARNING</b>	<b>Warning light does not light up or always lights up.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



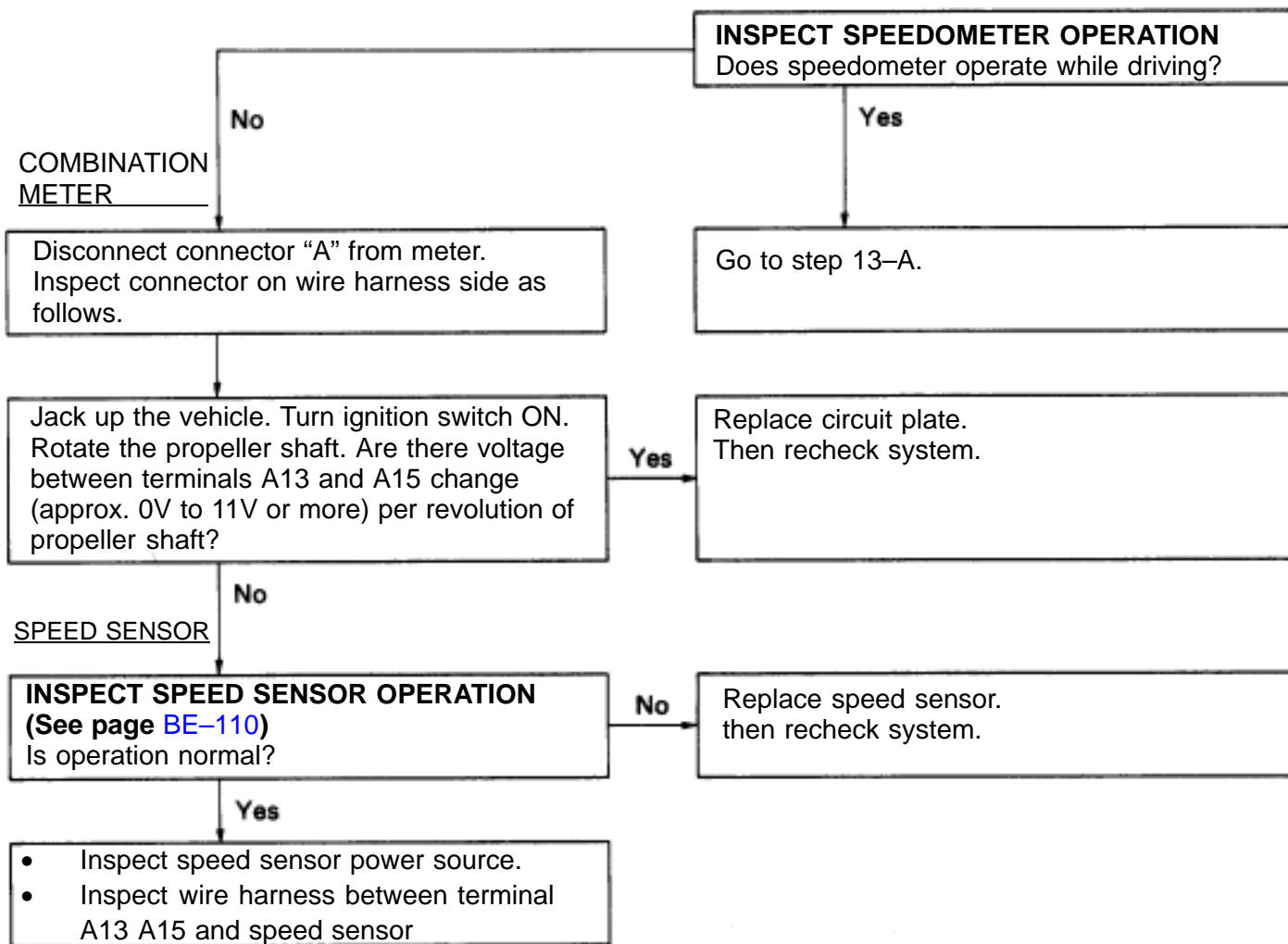
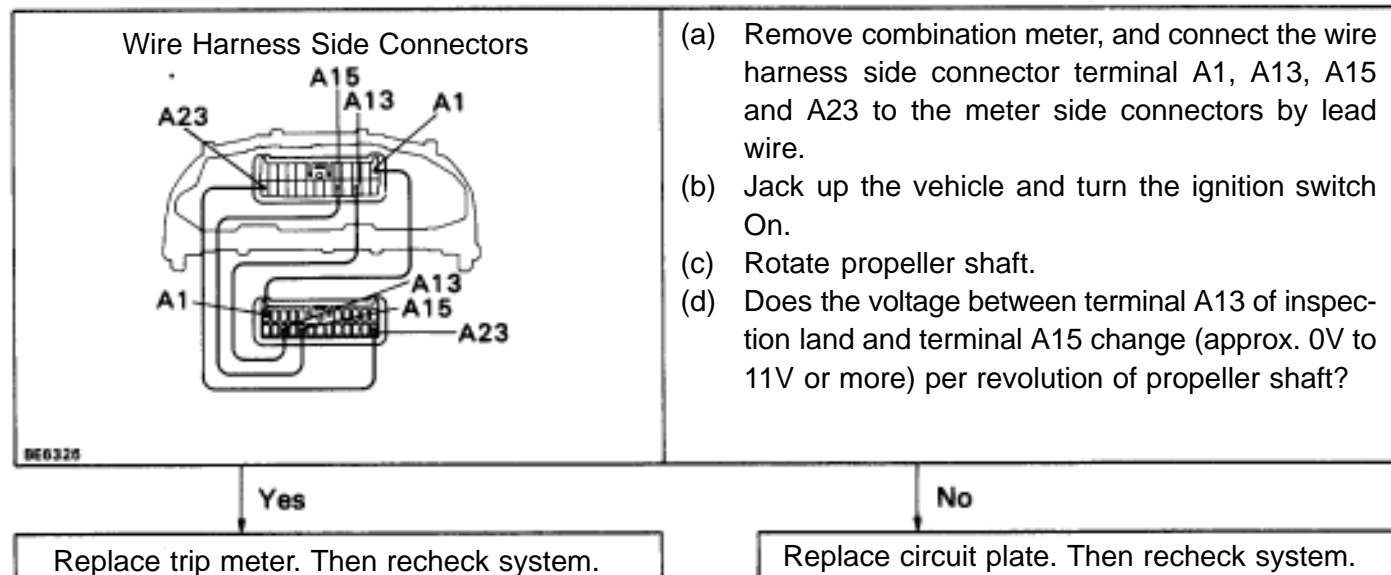
**12 WATER TEMPERATURE GAUGE****Does not operate or operation is abnormal.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



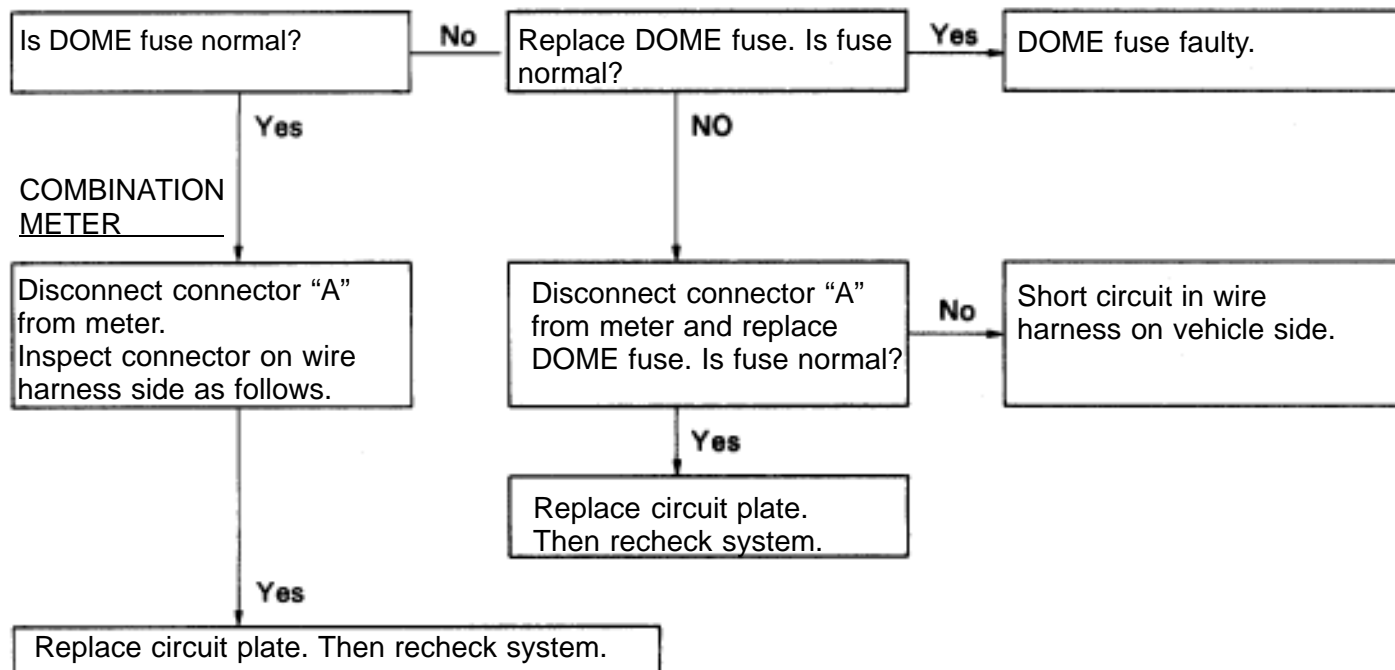
**13****ODOMETER AND  
TWIN TRIP METER****Display does not alter during driving.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

**13-A**

**14****ODOMETER AND  
TWIN TRIP METER****Display is reset whenever ignition switch  
is turned off.**

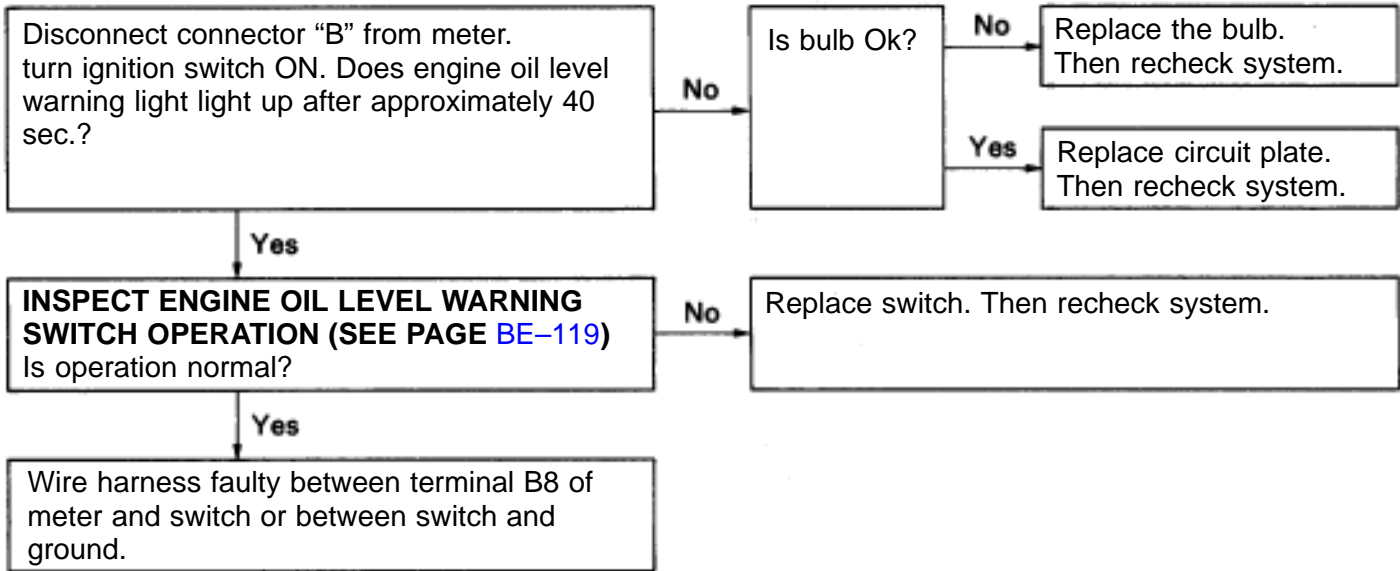
HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



15	ENGINE OIL LEVEL WARNING	Warning light does not lit up.
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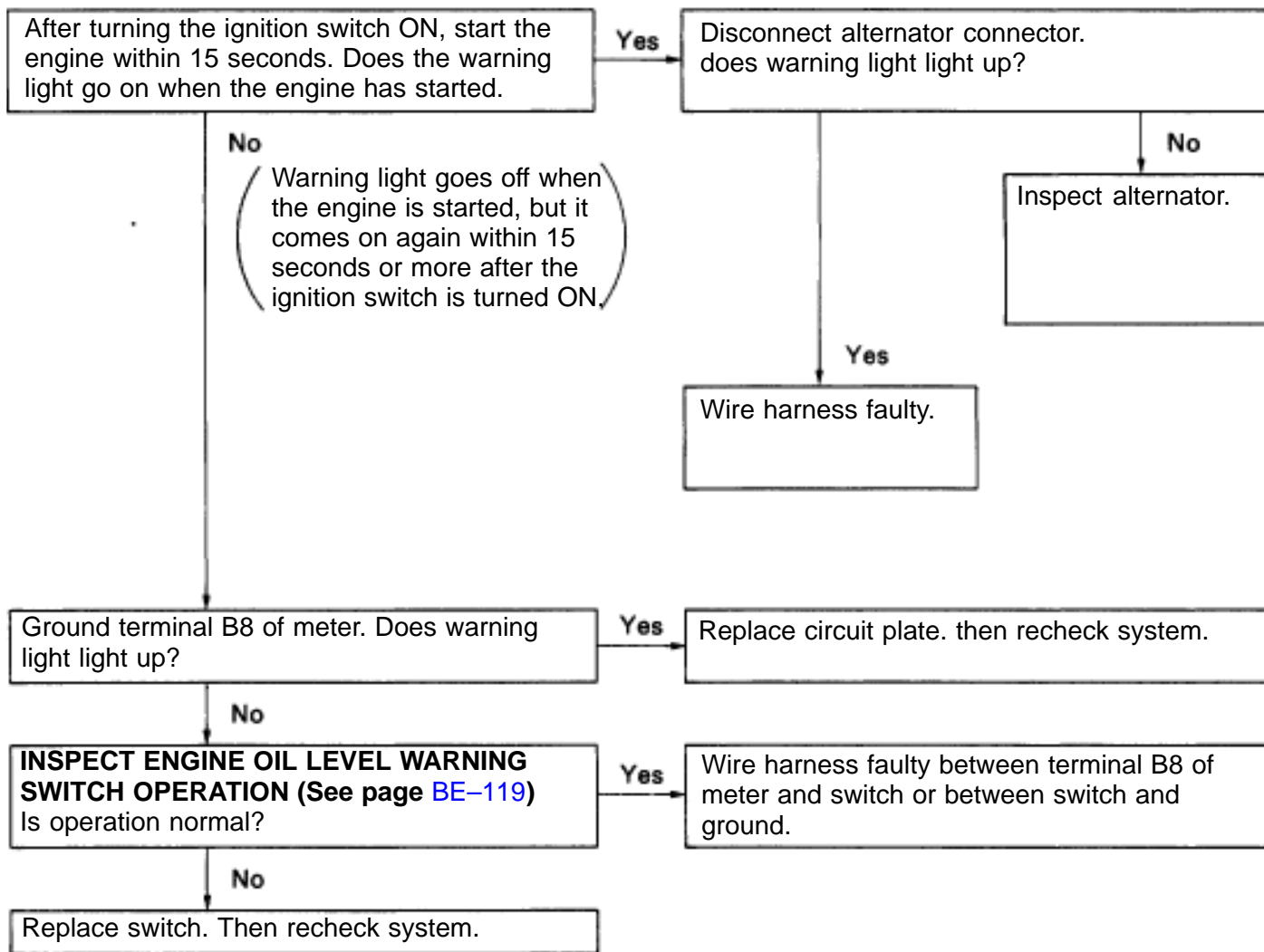
HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

COMBINATION  
METER



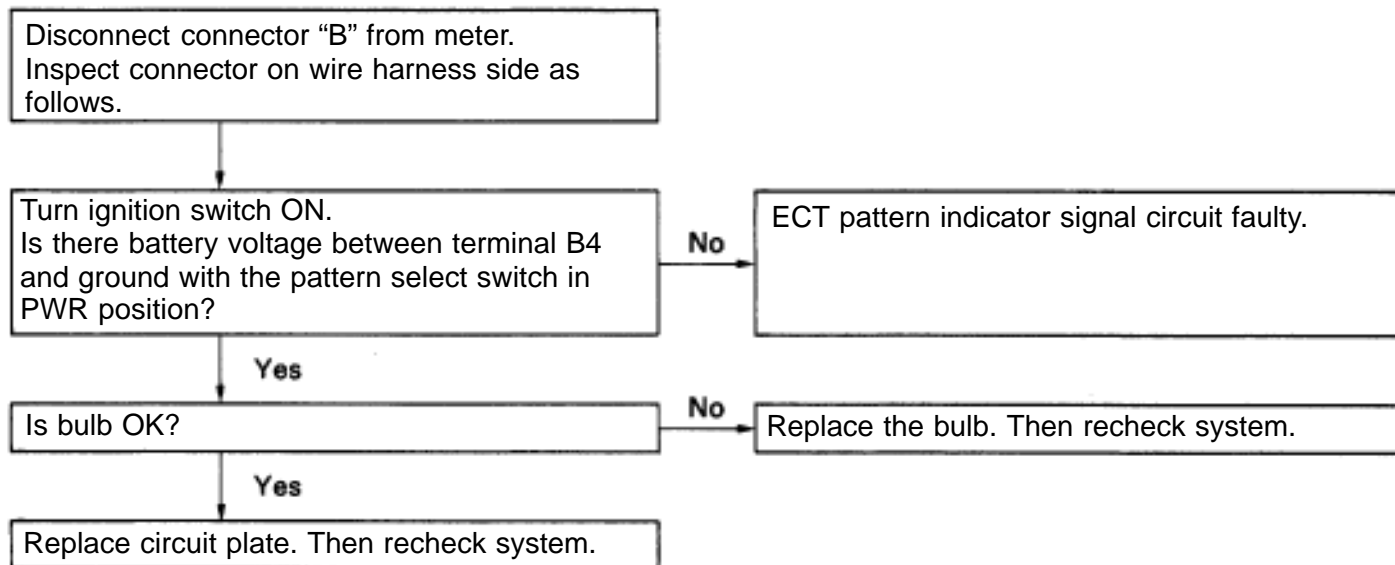
**16 ENGINE OIL LEVEL WARNING****Warning light always lit up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



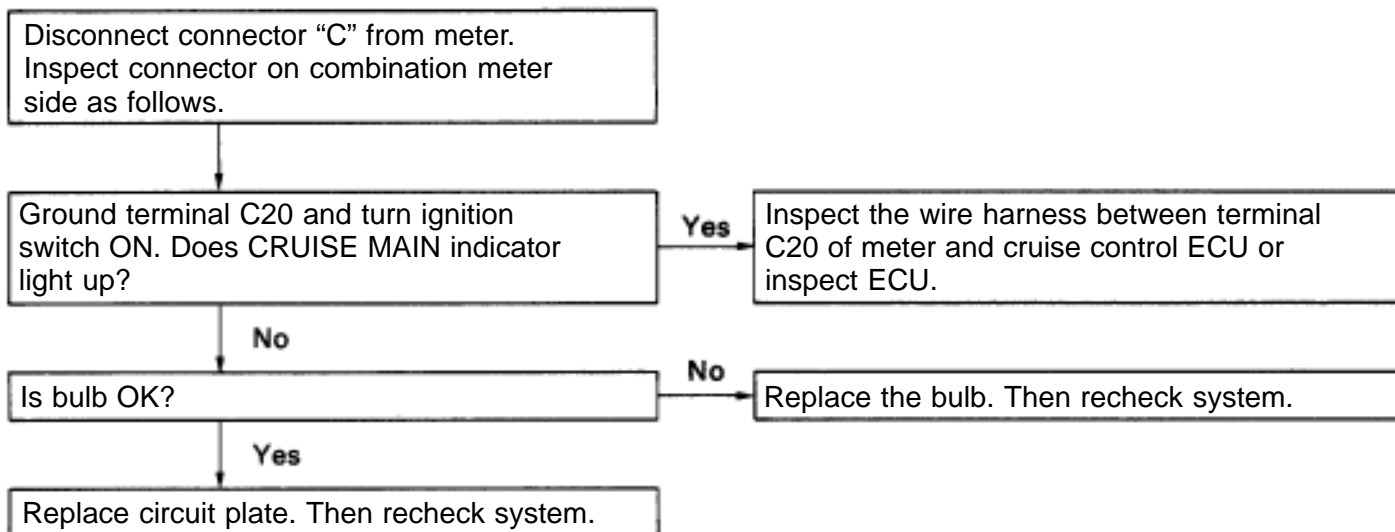
<b>17</b>	<b>ECT PWR INDICATOR</b>	<b>Abnormal operation or indicator does not light up.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



<b>18</b>	<b>CRUISE MAIN INDICATOR</b>	<b>Abnormal operation or indicator does not light up.</b>
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HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.





**19 O/D OFF INDICATOR****Abnormal operation or indicator does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

Disconnect connector "C" from meter.  
Inspect connector on combination meter side as follows.

Ground terminal C18 and turn ignition switch ON. Does O/D OFF indicator light up?

Yes → O/D OFF indicator signal circuit faulty.

No

Is bulb OK?

No → Replace the bulb.

Yes

Replace circuit plate. Then recheck system.

**20 SHIFT POSITION INDICATOR****Abnormal operation or indicator does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

Disconnect connector "C" from meter.  
Inspect connector on wire harness side as follows.

Turn ignition switch ON. Is there battery voltage between terminals XX and ground with turn shift lever to YY?

No → Shift position indicator signal circuit faulty.

Shift to YY	P	R	N	D	2	L
Terminal XX	C1	C2	C3	C4	C5	C16

Yes

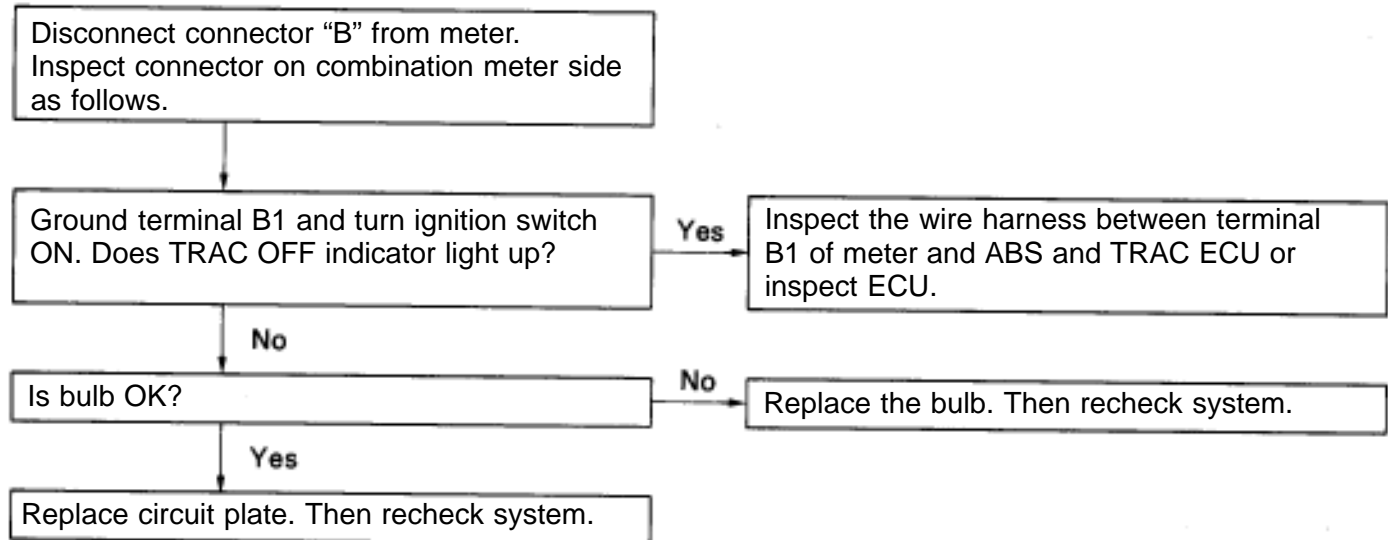
Is bulb OK?

No → Replace the bulb. Then recheck system.

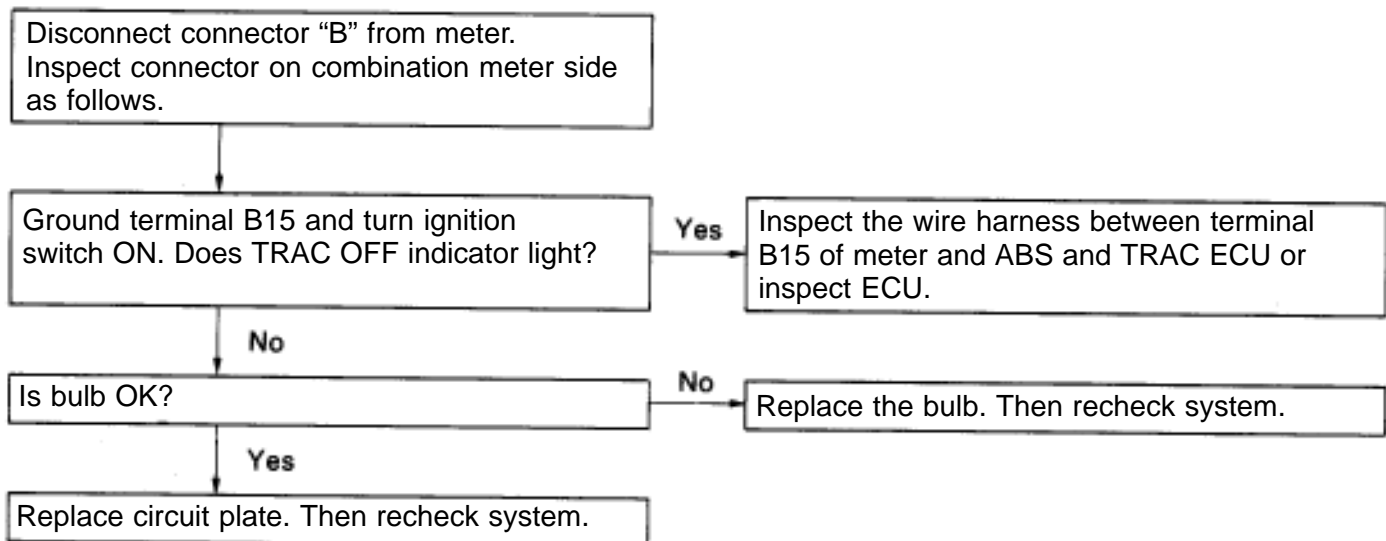
Replace circuit plate. Then recheck system.

**21 TRAC OFF INDICATOR****Abnormal operation or indicator does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

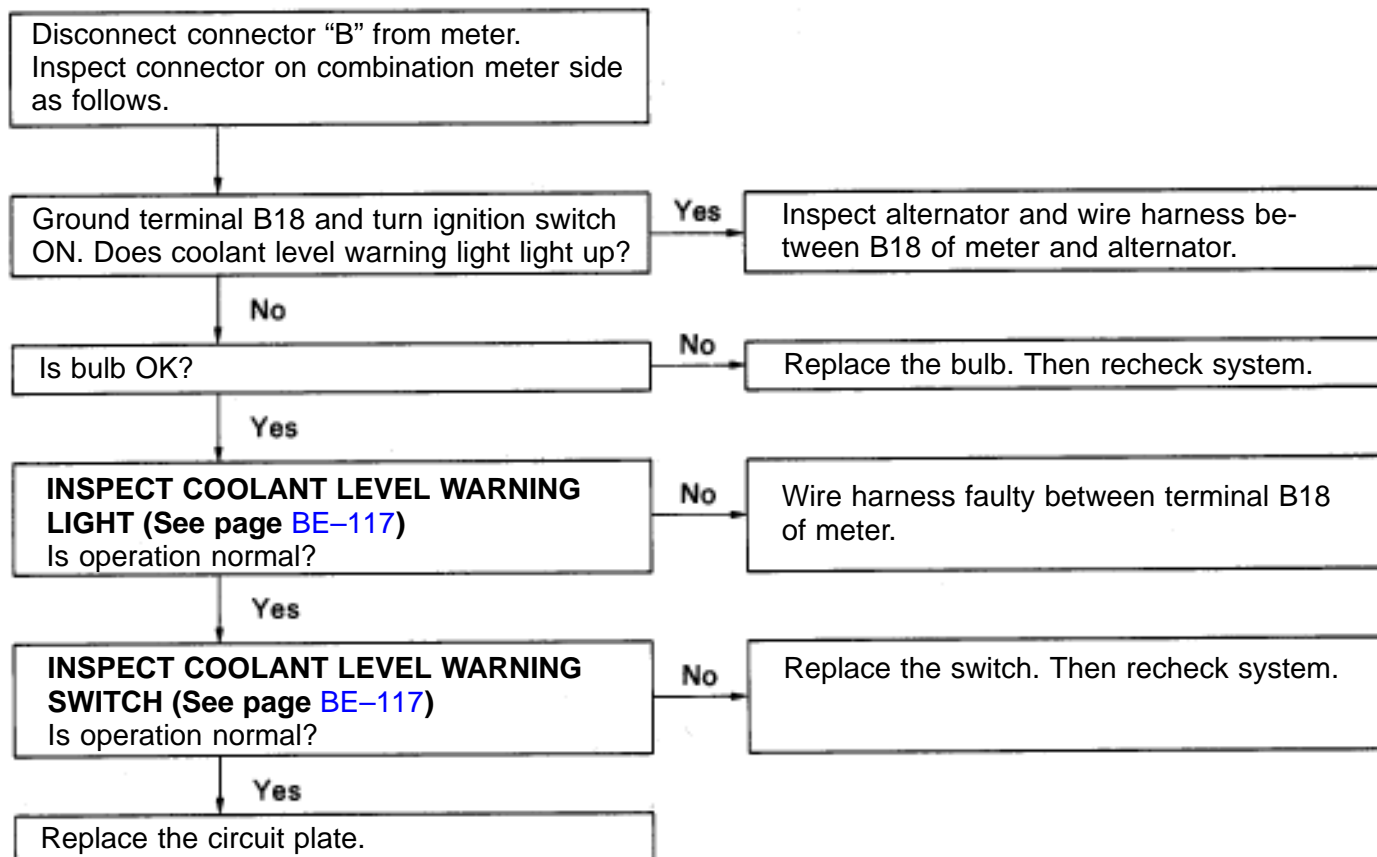
**22 ABS WARNING****Abnormal operation or warning light does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



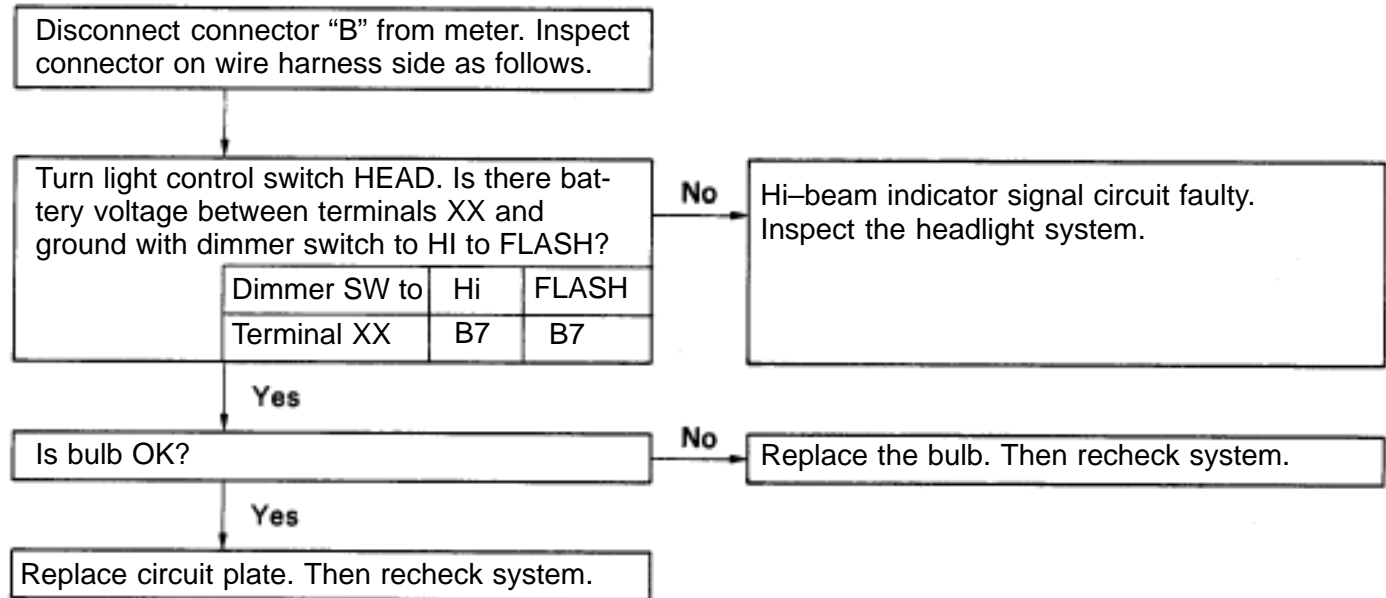
**23 COOLANT LEVEL WARNING****Abnormal operation or indicator does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

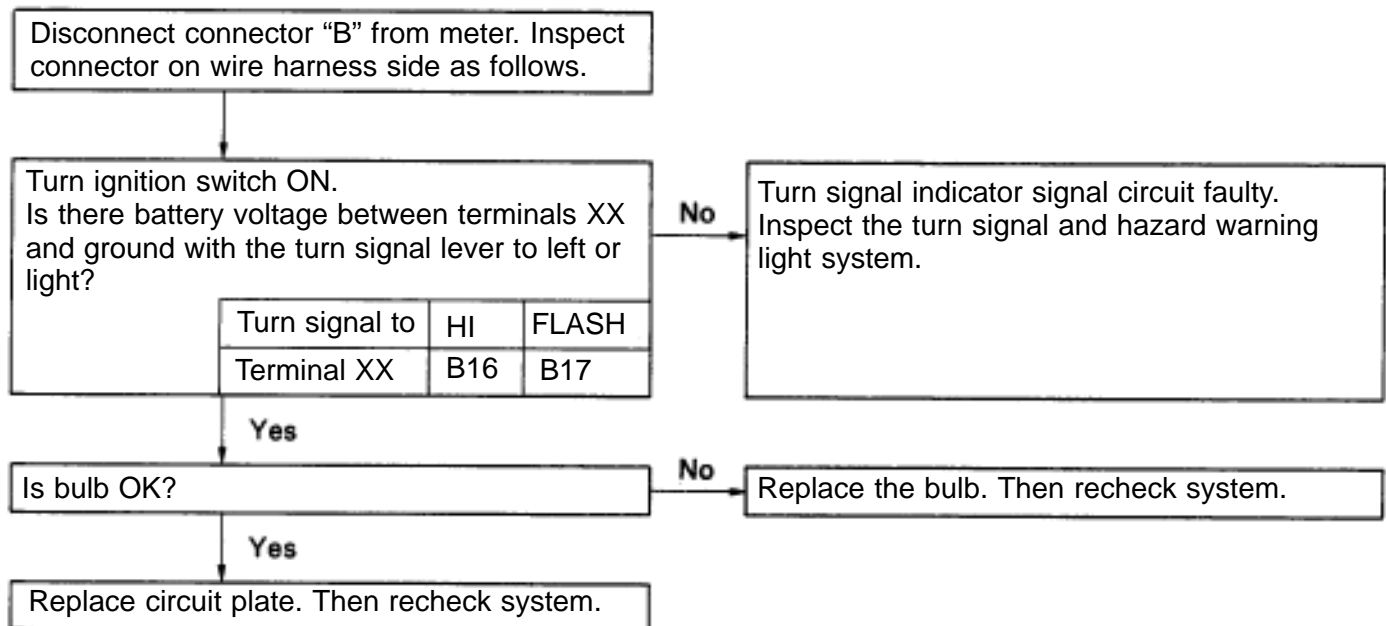


**24 HIGH BEAM INDICATOR****Abnormal operation or indicator does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

**25 TURN SIGNAL INDICATOR****Abnormal operation or indicator does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.



**26****WINDOW WASHER LEVEL  
WARNING SWITCH****Abnormal operation or indicator  
does not light up.**

HINT: While carrying out the following inspection, make certain that the connectors and terminals are properly connected.

