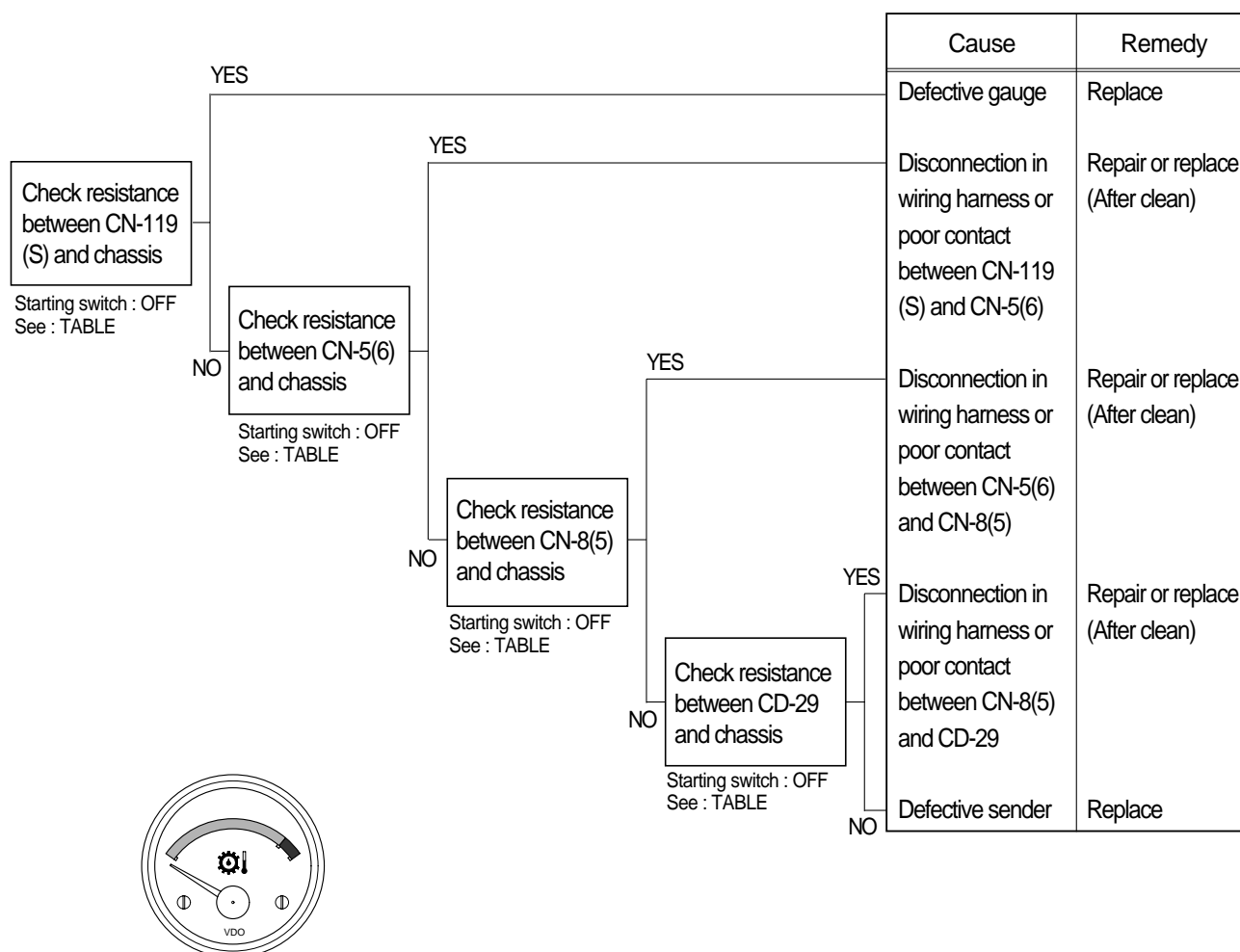


GROUP 7 TROUBLESHOOTING

1. WHEN TRANSMISSION OIL TEMPERATURE GAUGE DOES NOT OPERATE

(Check transmission oil temperature gauge lamp ON/OFF)

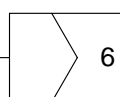
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



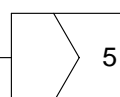
T/M TEMP GAUGE



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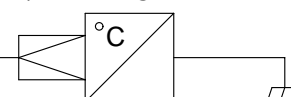


CN-5



CN-8

T/M TEMP SENDER



CD-29

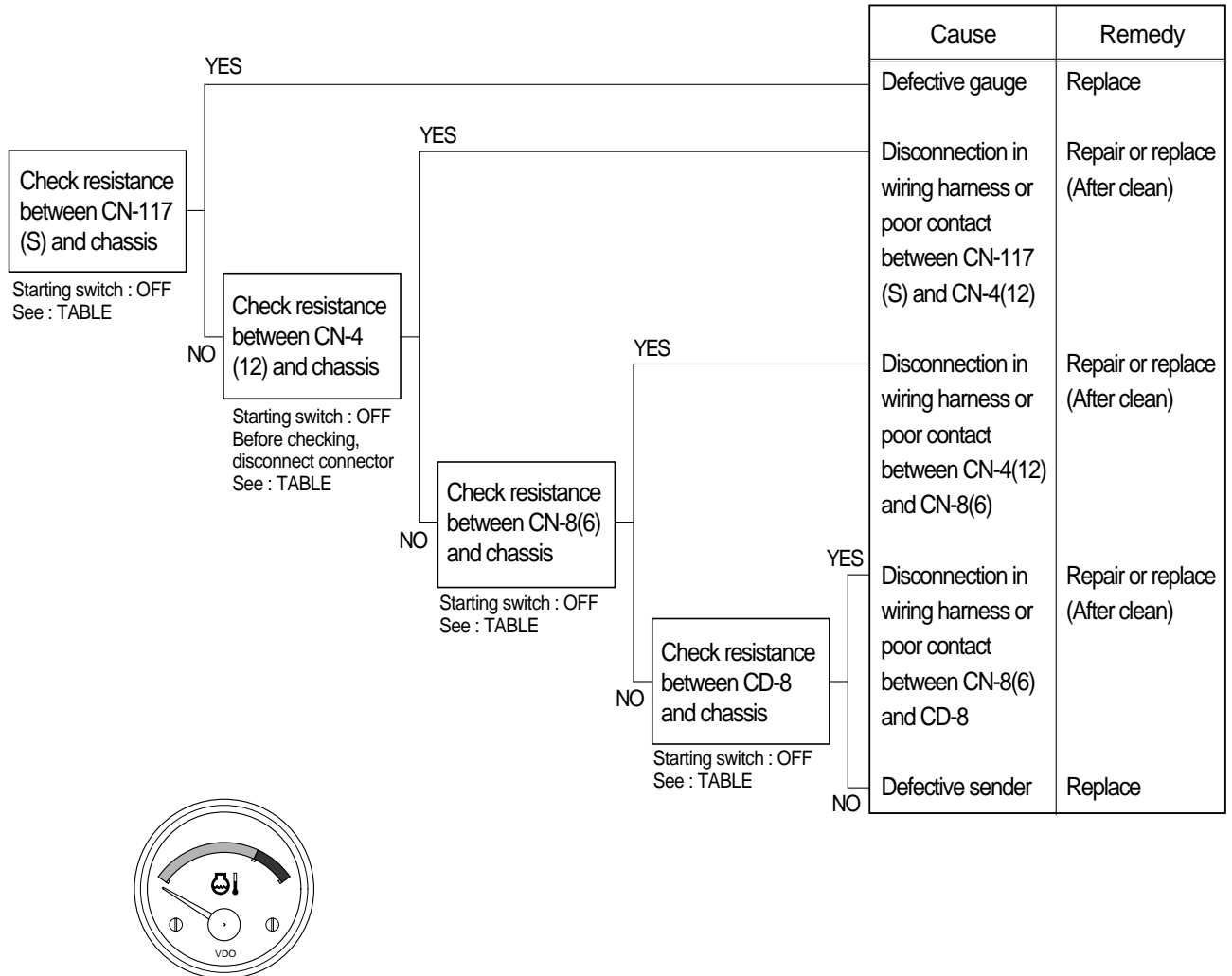
Check table

Temperature Item	50°C (122°F)	90°C (194°F)	120°C (248°F)	150°C (302°F)
Resistance(Ω)	322.8	(83)	36.5	18.6
Tolerance	±3.6°	±3.6°	±3.6°	±3.6°
Angle	-0°	-19.8°	+56.8°	+88.1°

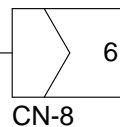
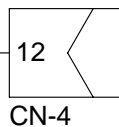
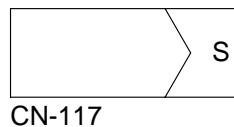
2. WHEN COOLANT TEMPERATURE GAUGE DOES NOT OPERATE

(Check coolant temperature gauge lamp ON/OFF)

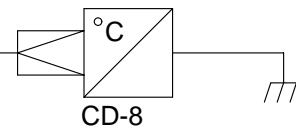
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



COOLANT TEMP GAUGE



COOLANT TEMP SENDER

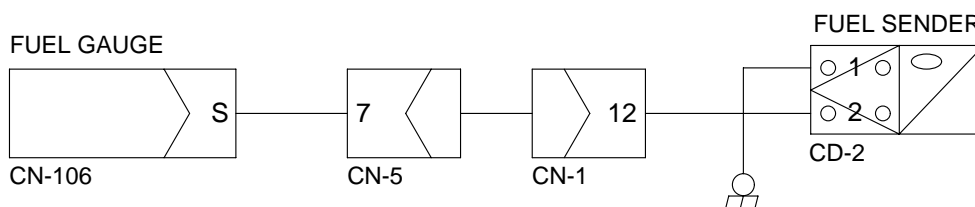
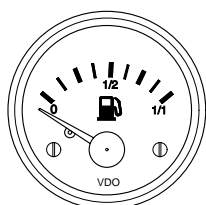
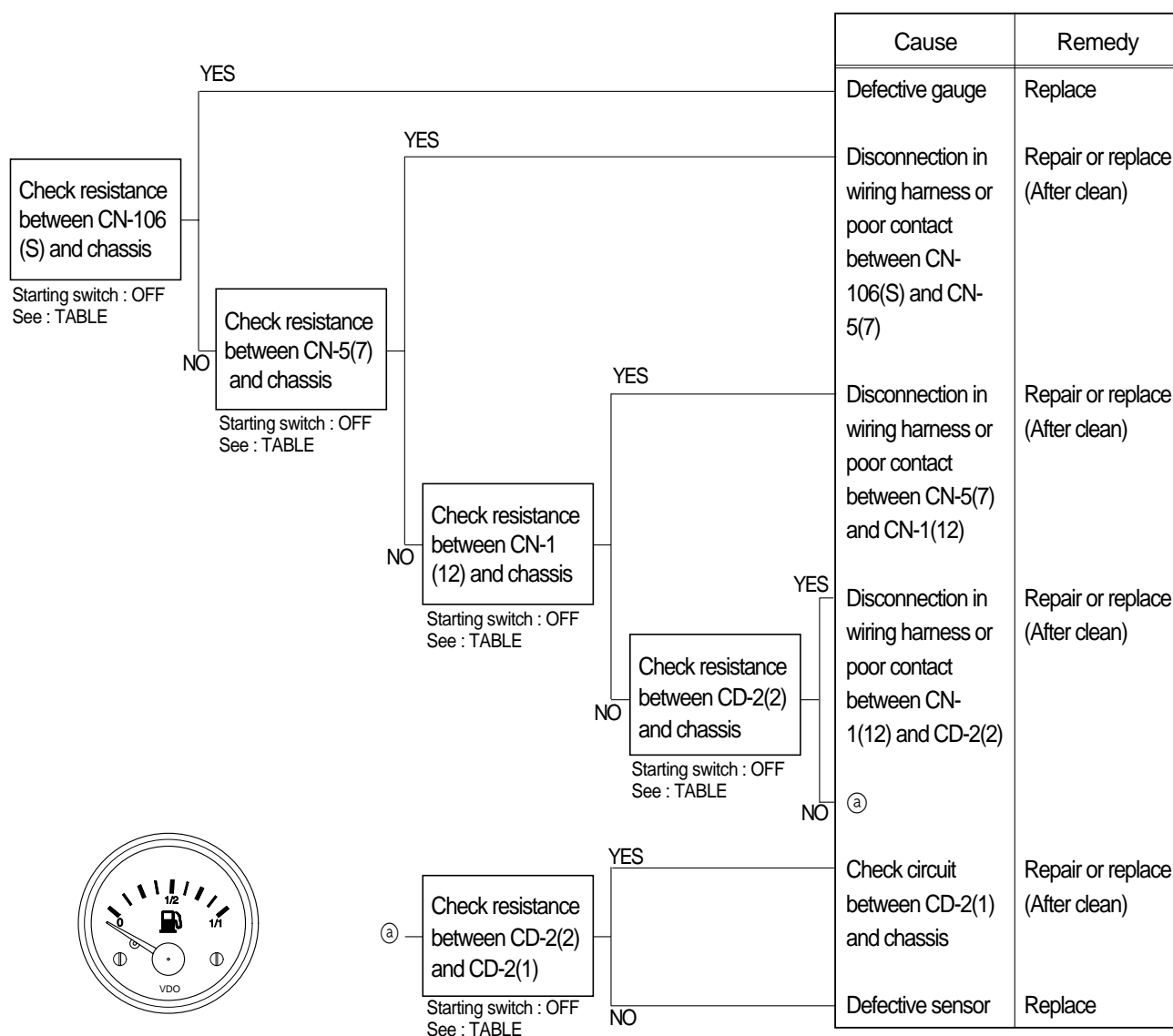


Check table

Temperature Item	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)	120°C (248°F)
Resistance(Ω)	287.4	134	69.1	38.6	22.7
Tolerance	±3.6°	±3.6°	±3.6°	±3.6°	±3.6°
Angle	0°	8.3°	25.8°	58°	88.2°

3. WHEN FUEL GAUGE DOES NOT OPERATE (Check fuel gauge lamp ON/OFF)

- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



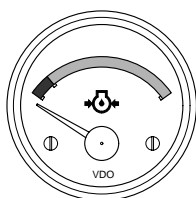
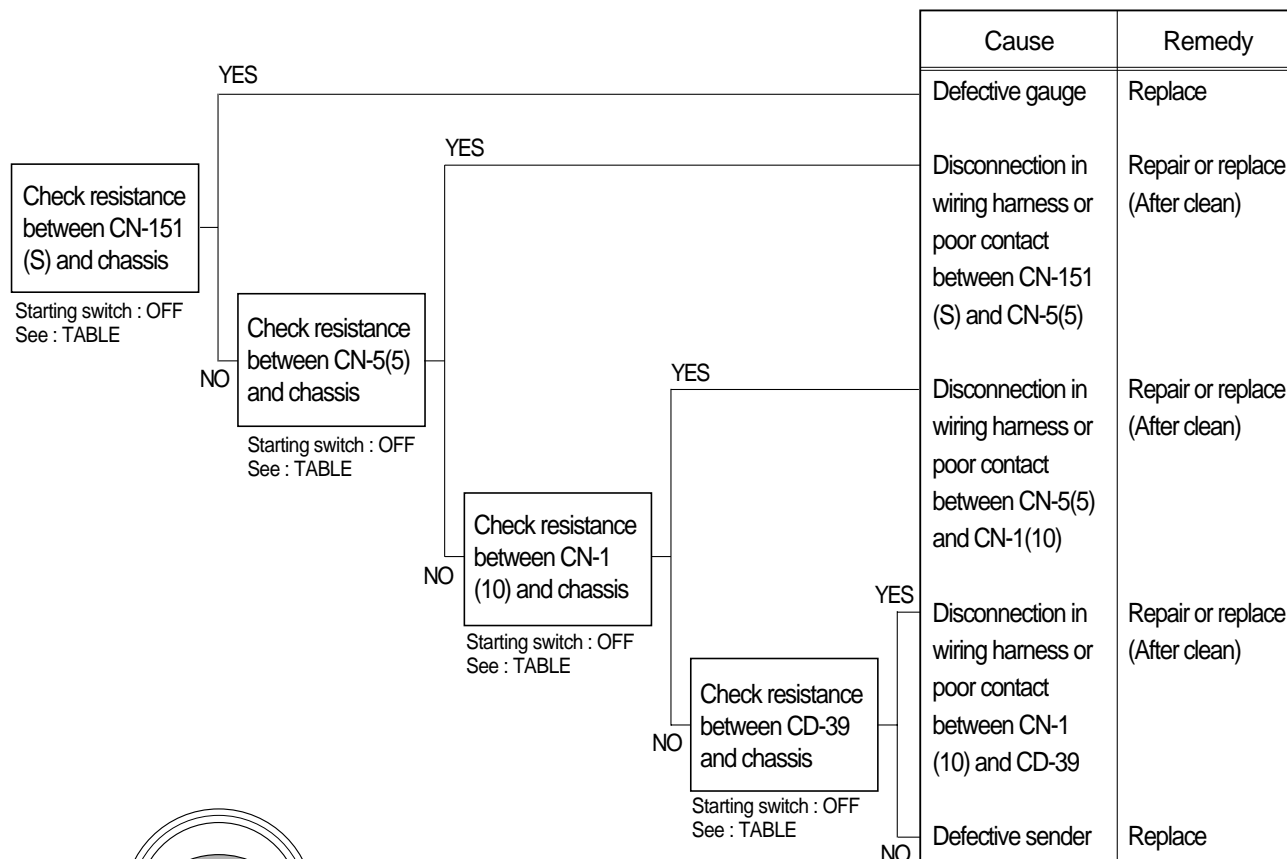
Check table

Fuel level Item	Empty	(1/2)	Full
Resistance(Ω)	75	(37)	0.5
Tolerance	+ 0° - 5.4°	-	+ 5.4° - 0°
Angle	0°	44°	87.4°

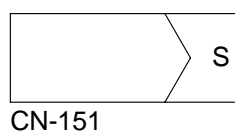
4. WHEN ENGINE OIL PRESSURE GAUGE DOES NOT OPERATE

(Check engine oil pressure gauge lamp ON/OFF)

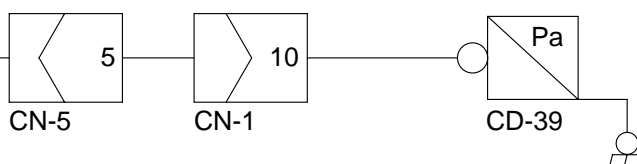
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



ENGINE OIL PRESSURE GAUGE



ENGINE OIL PRESSURE SENDER & SWITCH

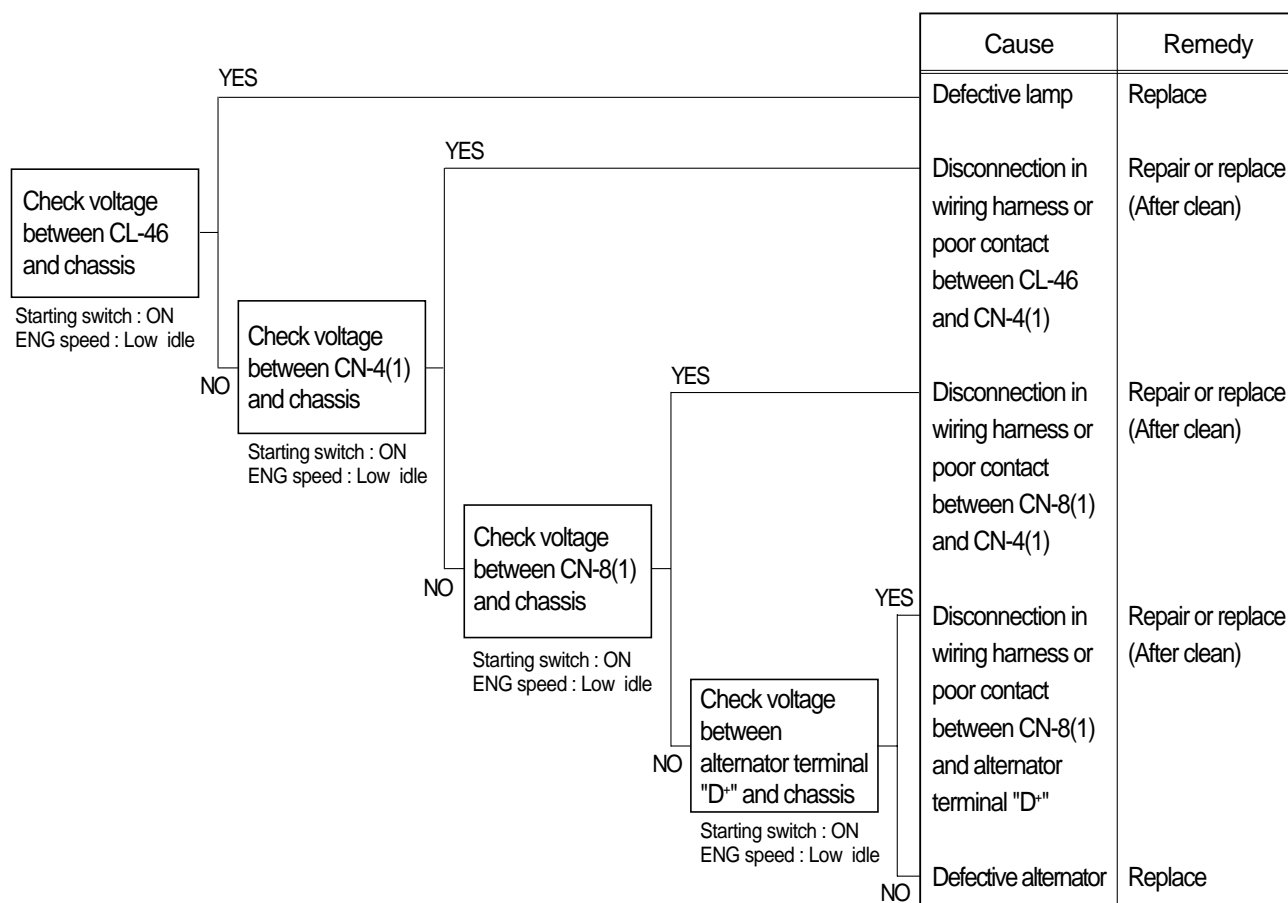


Check table

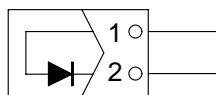
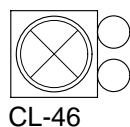
Pressure Item	0 bar	0.4 bar	0.8 bar	1.2 bar	1.6 bar	2 bar
Resistance(Ω)	10	48	82	116	151	184
Tolerance	$\pm 3.6^\circ$	$\pm 3.6^\circ$	$\pm 3.6^\circ$	$\pm 3.6^\circ$	$\pm 3.6^\circ$	$\pm 3.6^\circ$
Angle	0°	13.4°	30.6°	53°	74.2°	87.4°

5. WHEN BATTERY CHARGING WARNING LAMP LIGHTS UP(Engine is started)

- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



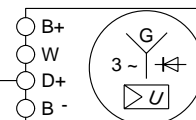
CHARGE WARNING LAMP



CN-4

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ALTERNATOR

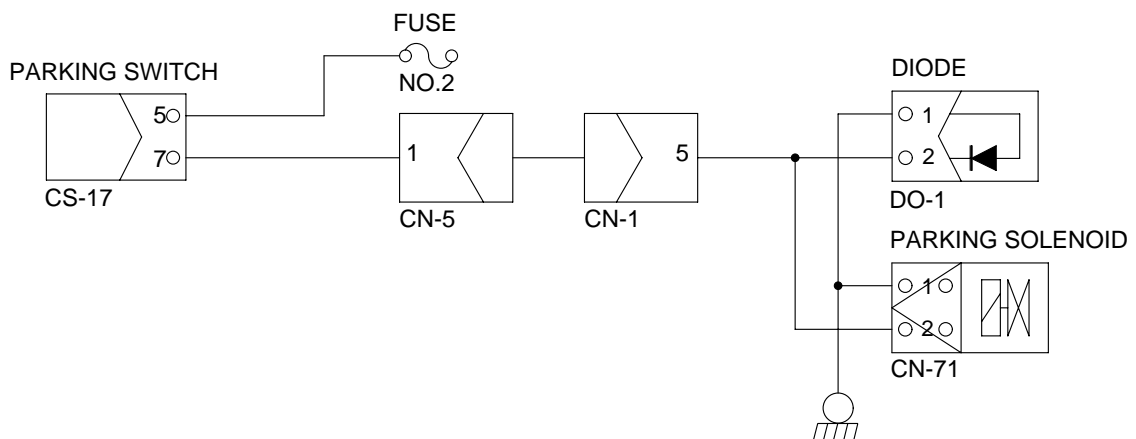
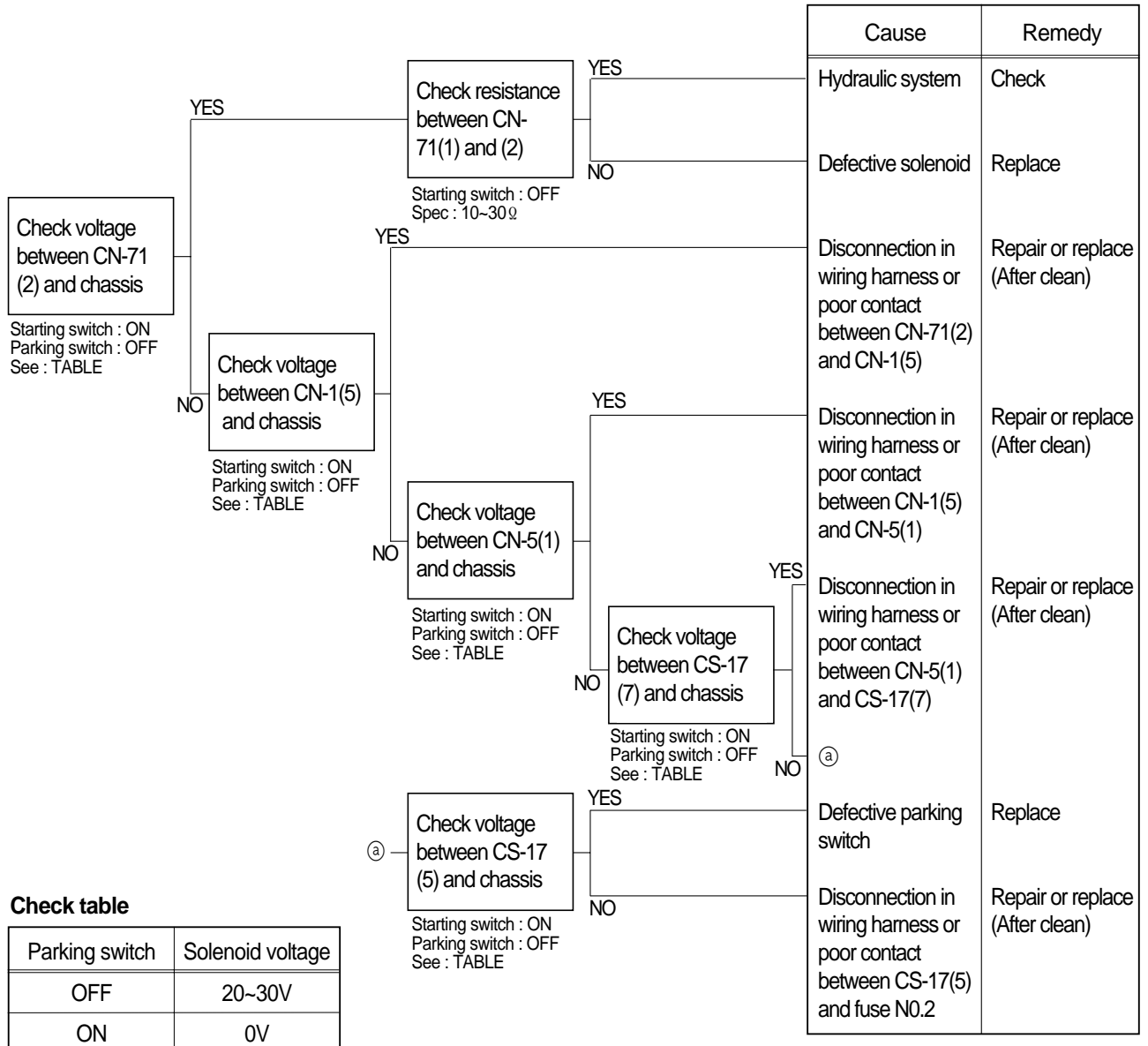


Check voltage

YES	25~30V
NO	0~20V

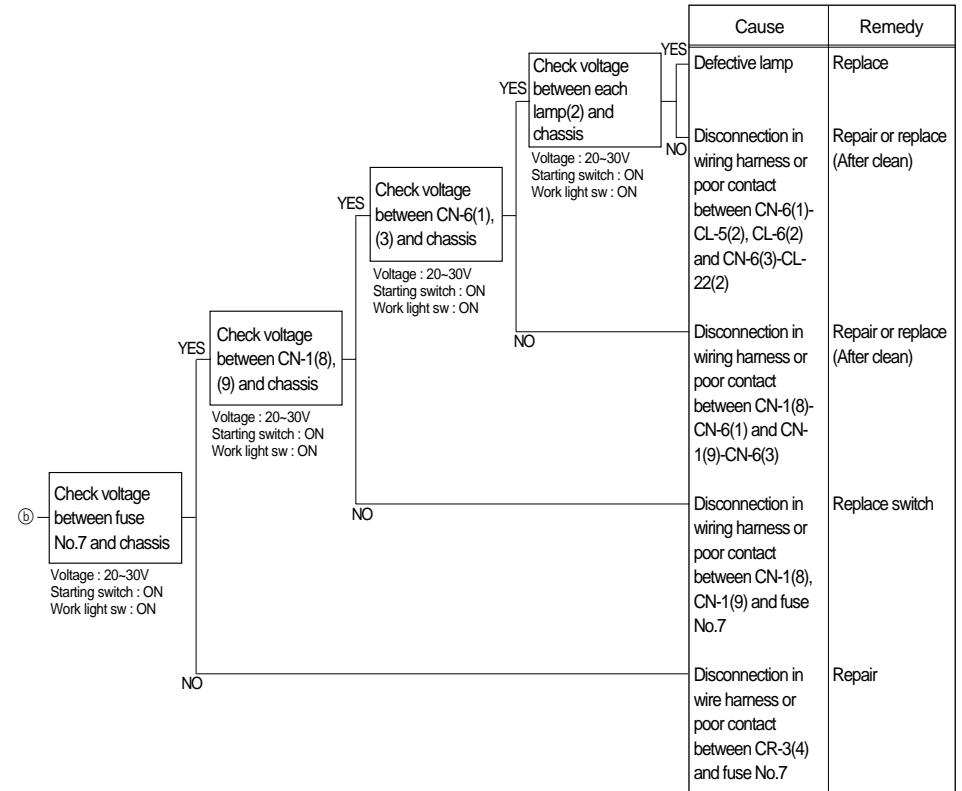
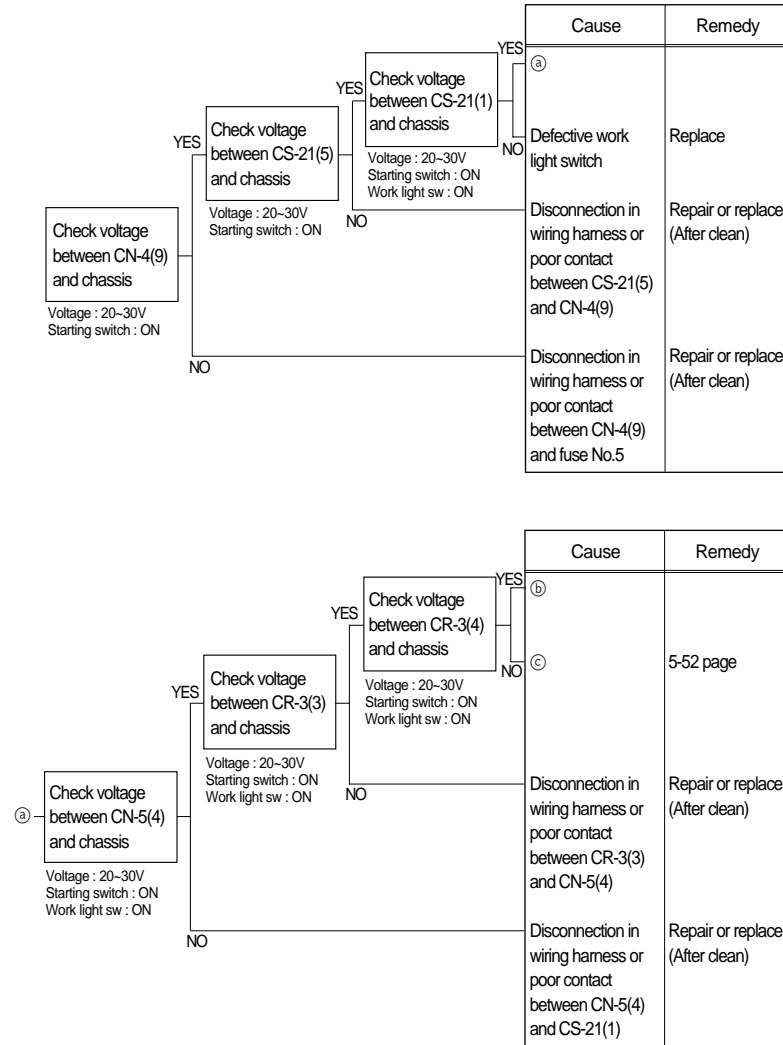
6. WHEN PARKING SOLENOID DOES NOT OPERATE

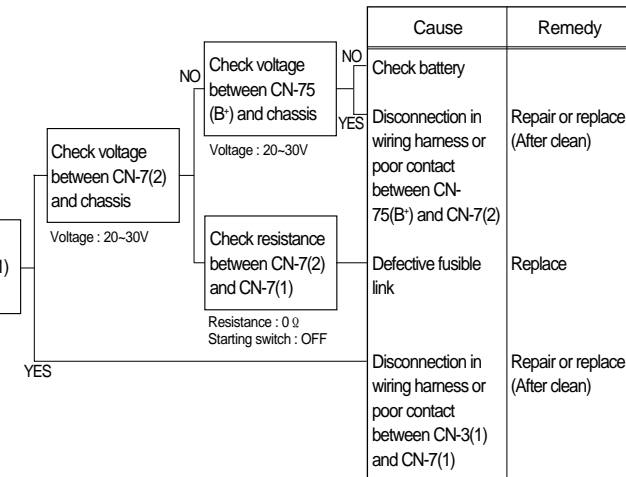
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse NO.2 is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



7. WHEN STARTING SWITCH IS TURNED ON, WORK LAMP DOES NOT LIGHT UP

- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.5, 7 is not blown out.
- Check the bulbs.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.





8. WHEN ENGINE DOES NOT START

- Check supply of the power at fuel cut off solenoid while starting switch is ON and the fuse No.1 is not blown out.
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless other wise specified.
- Check transmission control switch at neutral position.

