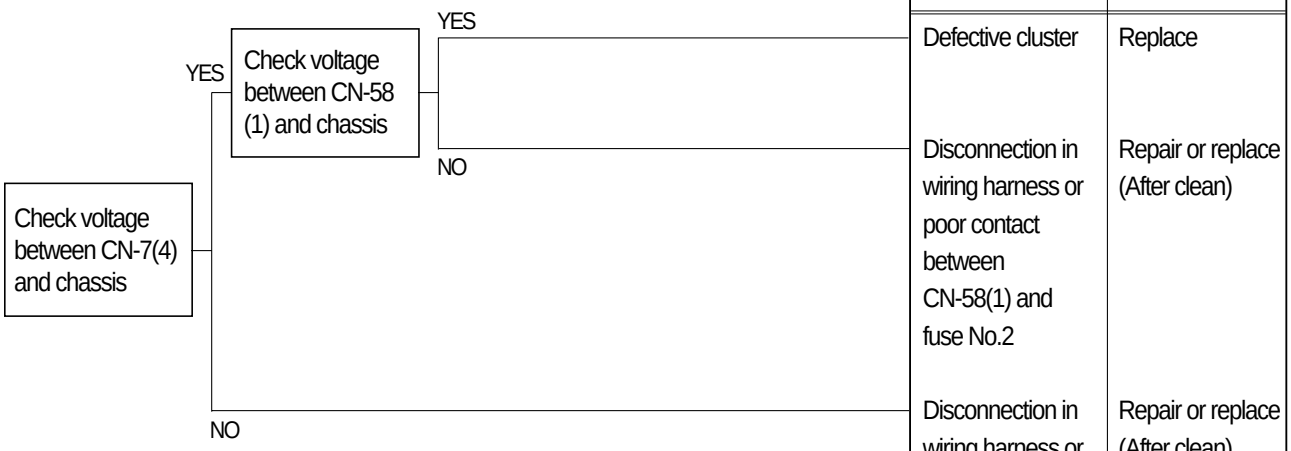
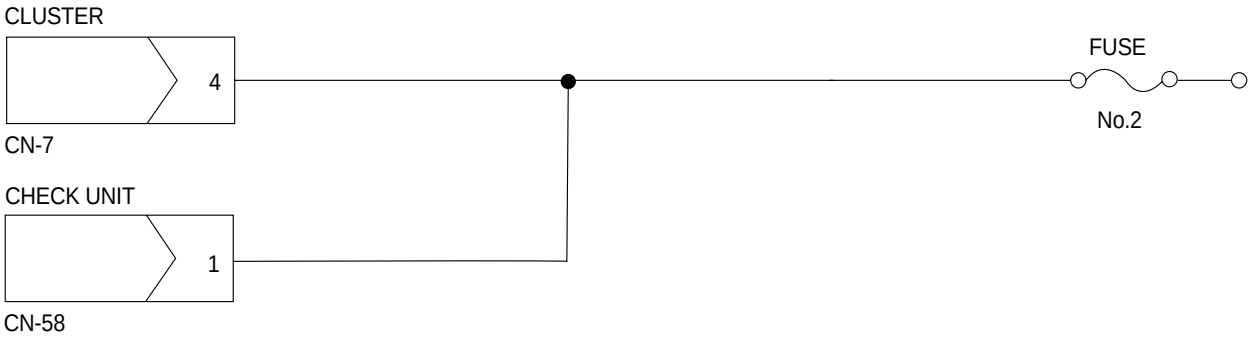
1. WHEN STARTING SWITCH IS TURNED ON, CLUSTER LAMP DOES NOT LIGHT UP

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



Cause	Remedy
Defective cluster	Replace
Disconnection in wiring harness or poor contact between CN-58(1) and fuse No.2	Repair or replace (After clean)
Disconnection in wiring harness or poor contact between CN-7(4) and fuse No.2	Repair or replace (After clean)

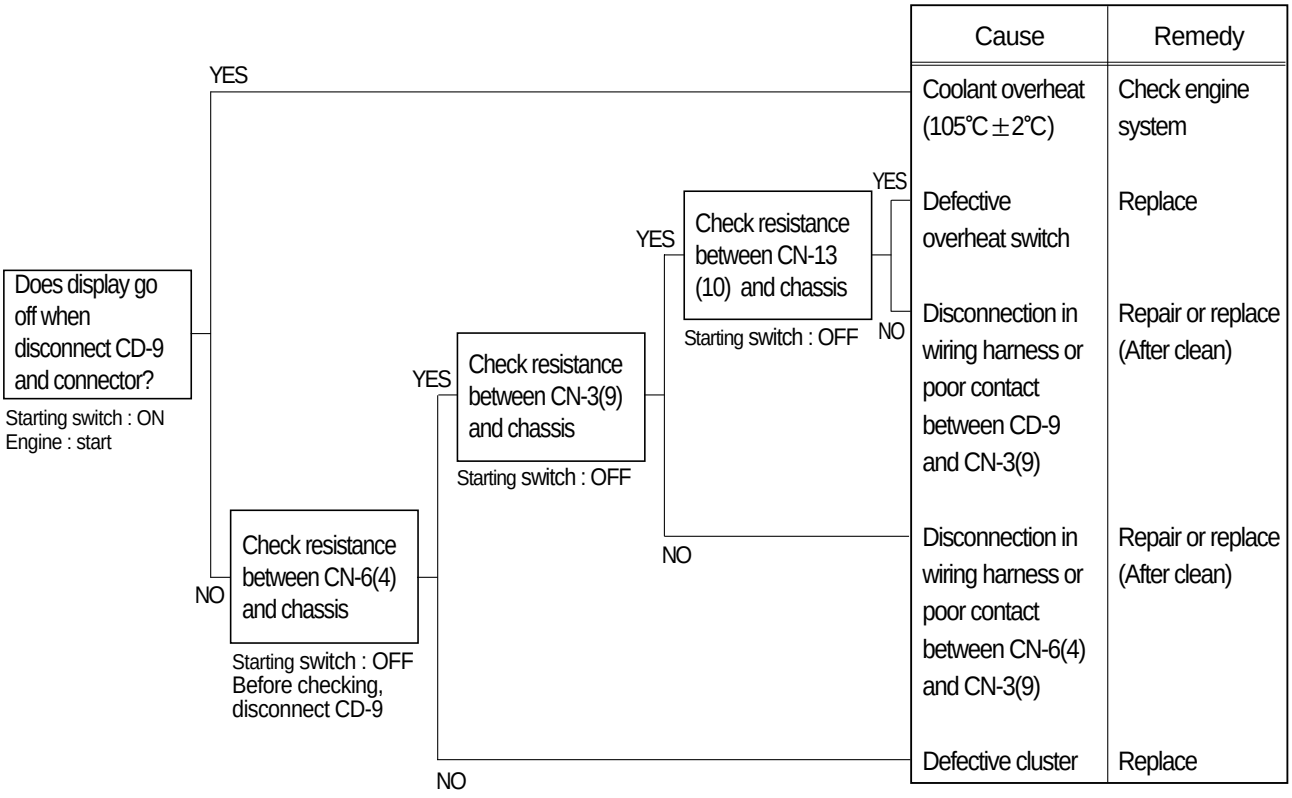


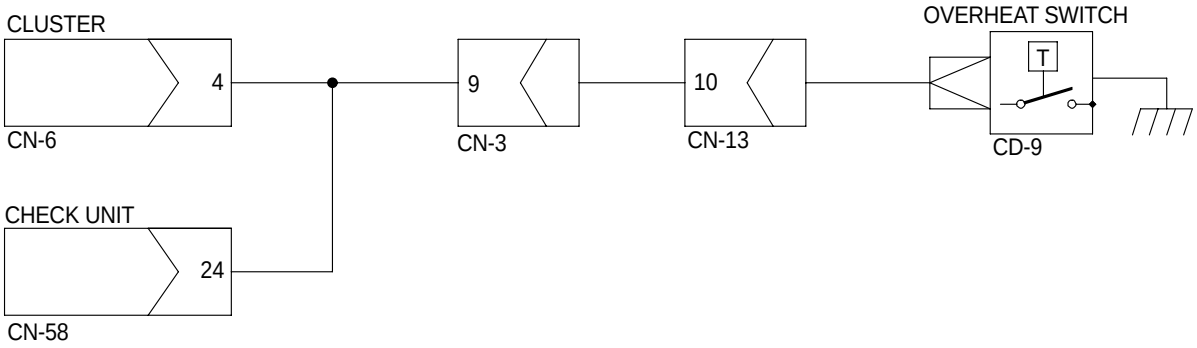
Check voltage

YES	20 ~ 28V
NO	0V

2. WHEN COOLANT OVERHEAT 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.



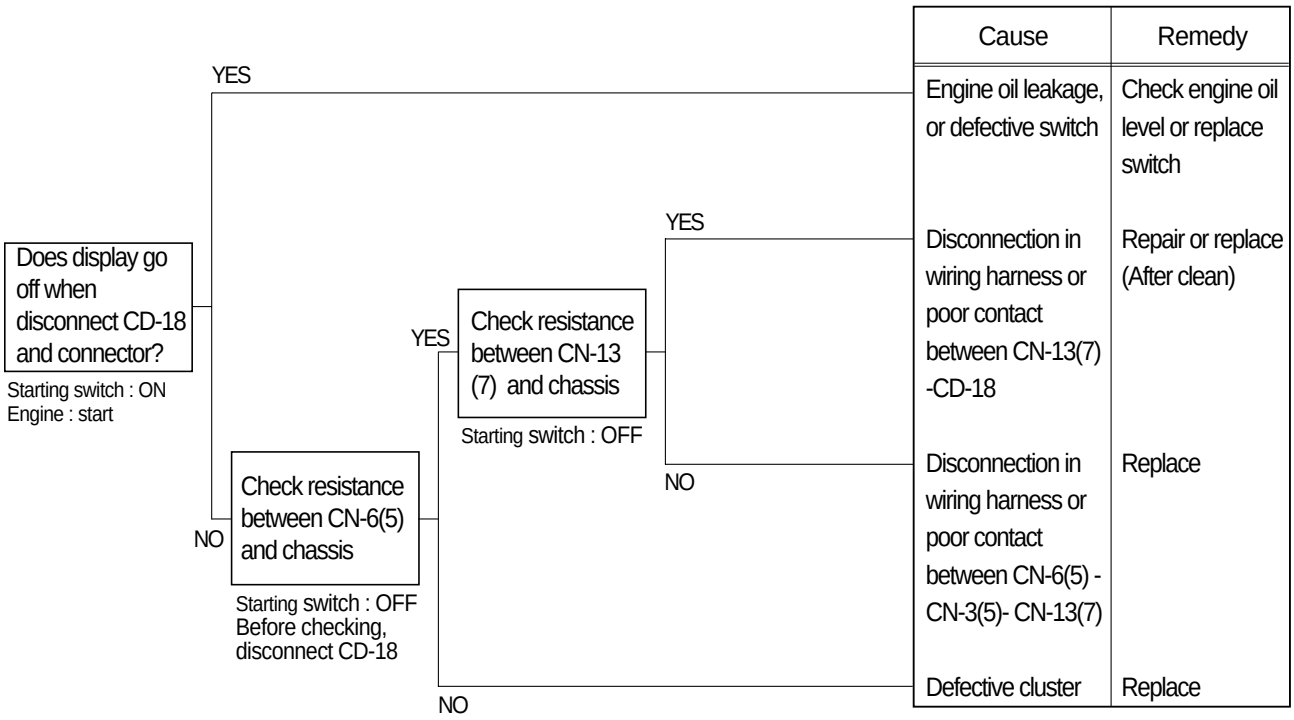


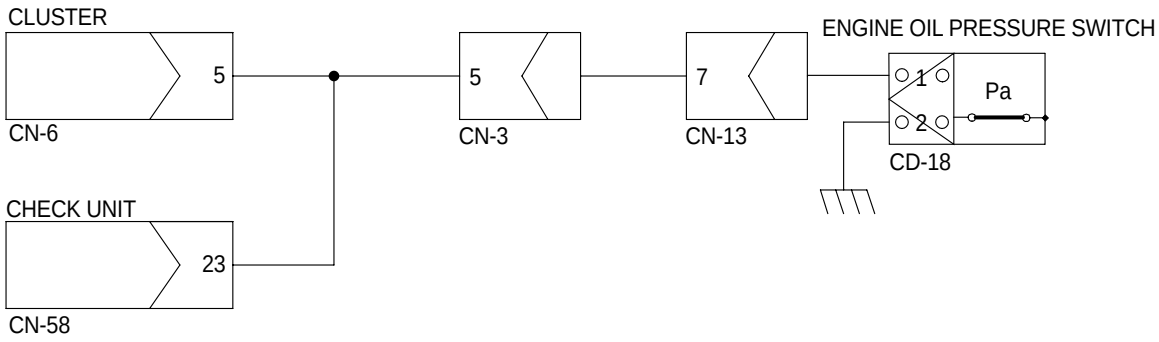
Check resistance

YES	MAX 1 Ω
NO	MIN 1M Ω

3. **WHEN ENGINE OIL PRESSURE 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.



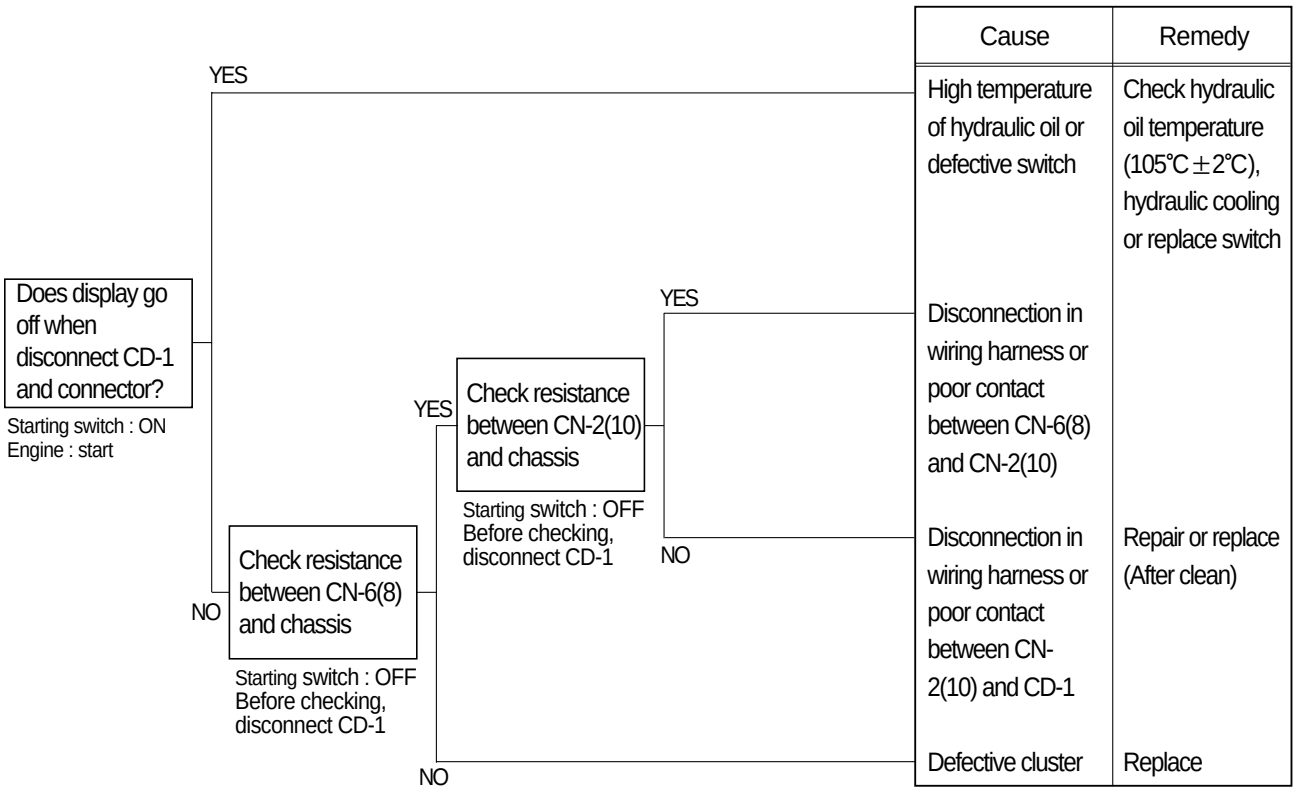


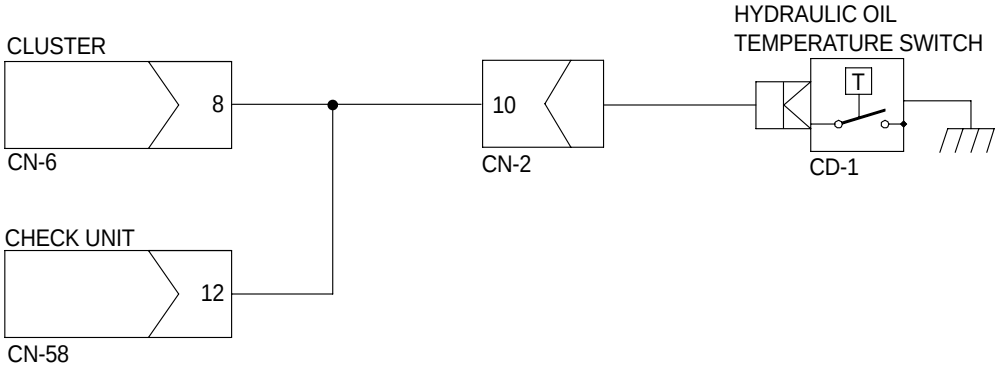
Check resistance

YES	MAX 1 Ω
NO	MIN 1M Ω

4. WHEN HYDRAULIC OIL TEMPERATURE 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.





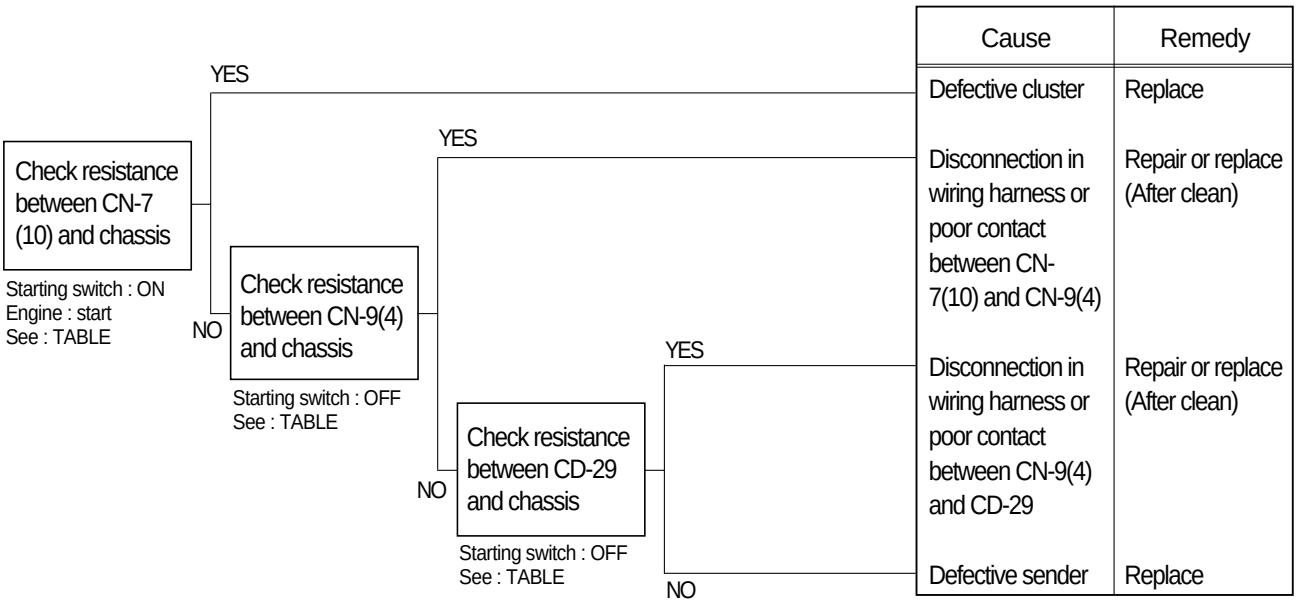
Check resistance

YES	MAX 1 Ω
NO	MIN 1M Ω

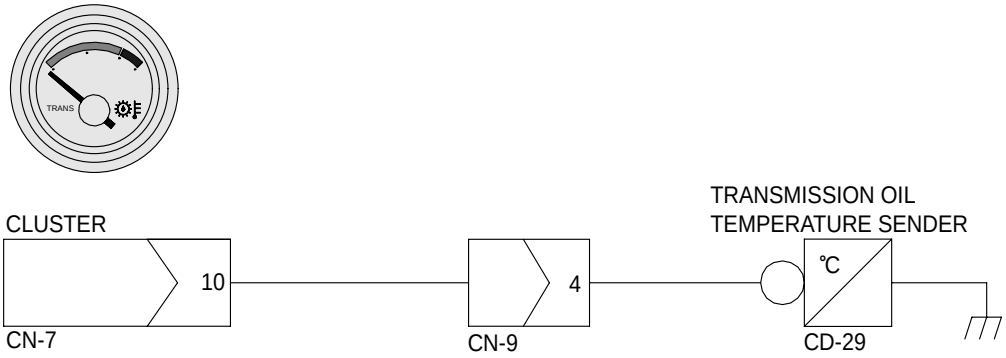
5. WHEN TORQUE CONVERTER OIL TEMPERATURE GAUGE DOES NOT OPERATE

(Check torque converter oil temperature 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.



Cause	Remedy
Defective cluster	Replace
Disconnection in wiring harness or poor contact between CN-7(10) and CN-9(4)	Repair or replace (After clean)
Disconnection in wiring harness or poor contact between CN-9(4) and CD-29	Repair or replace (After clean)
Defective sender	Replace



Check resistance

YES	MAX 1 Ω
NO	MIN 1M Ω

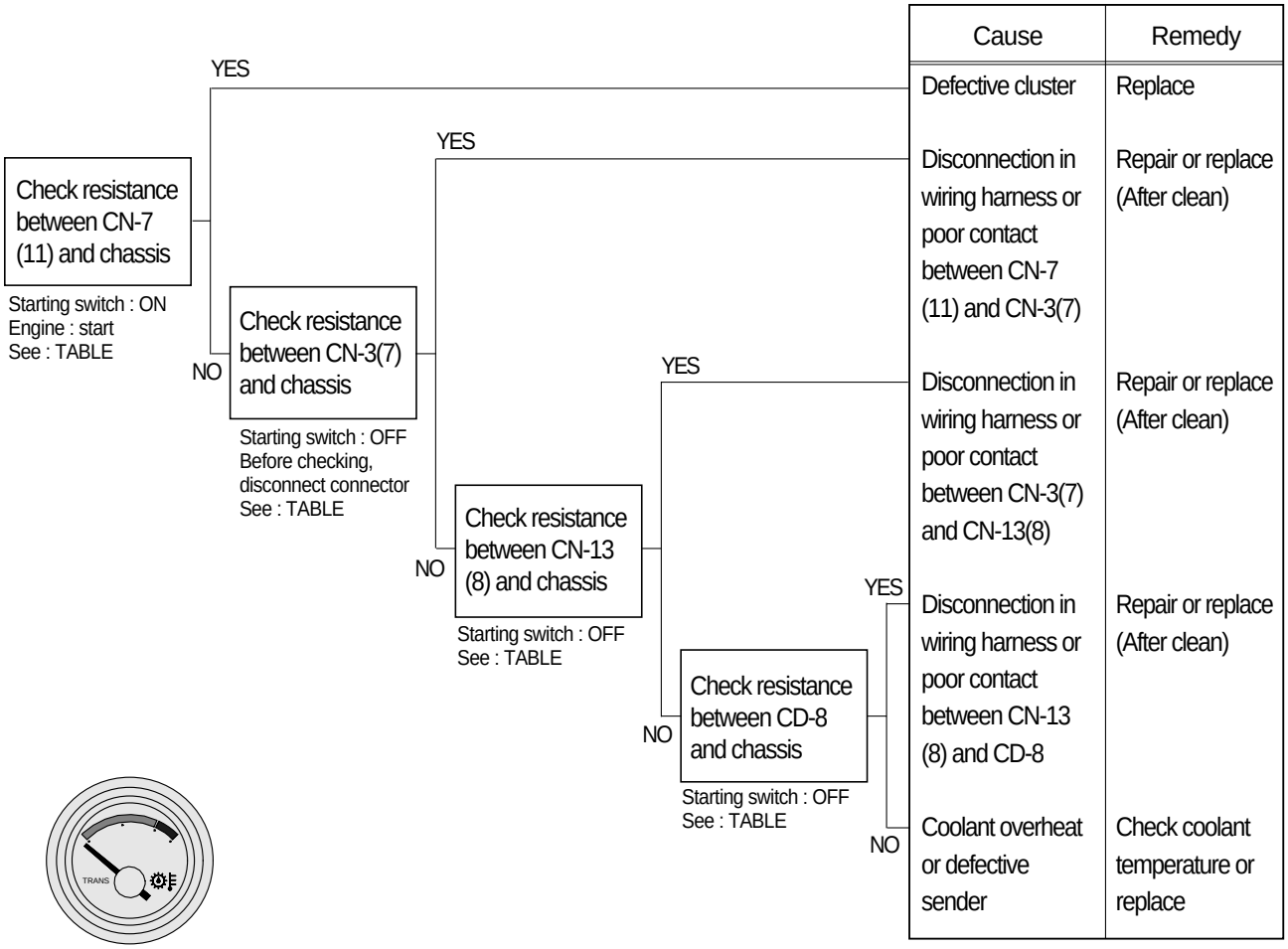
Check table

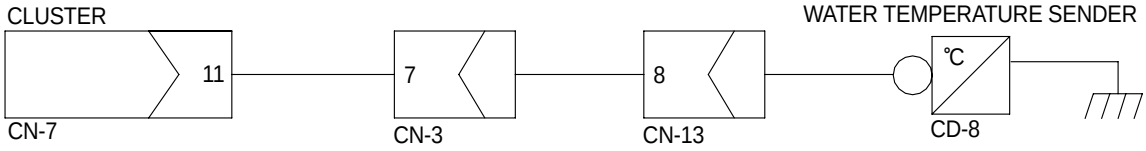
Temperature / Item	50℃	92℃	120℃	130℃
Unit resistance(Ω)	168.7	(34)	19.5	12.4
Tolerance	0° ~ -10°	(-)	±3°	+10° ~ 0°
Angle	-30°	-8°	+27°	+30°

6. WHEN COOLANT TEMPERATURE GAUGE DOES NOT OPERATE

(Check coolant temperature 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 resistance

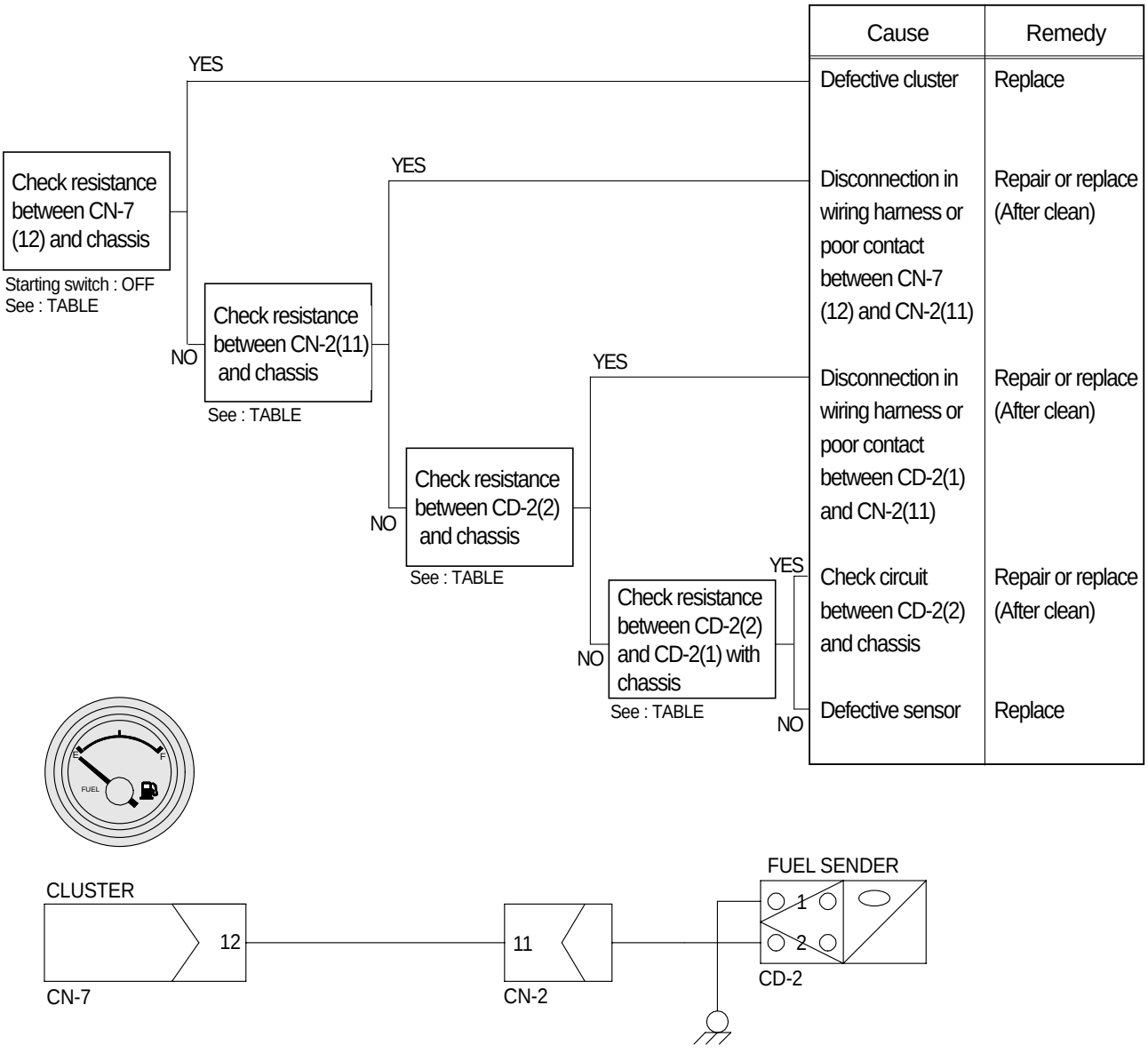
YES	MAX 1 Ω
NO	MIN 1M Ω

Check table

Item \ Temperature	(40℃)	91℃	105℃	120℃
Unit resistance(Ω)	222	(41.3)	28	19.2
Tolerance	±5°	(-)	±4.5	(-)
Angle	-30°	0°	+13°	+30°

7. WHEN FUEL GAUGE DOES NOT OPERATE(Check warning 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 resistance

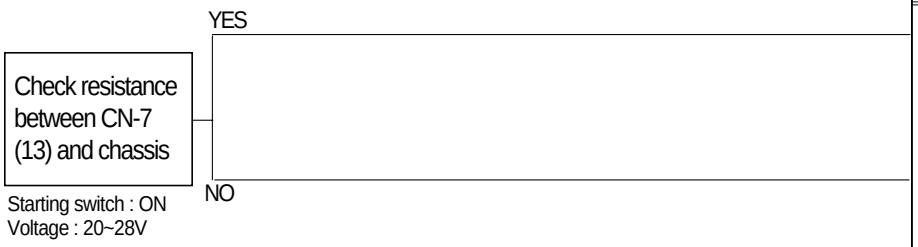
YES	MAX 1 Ω
NO	MIN 1M Ω

Check table

Temperature / Item	Empty	(1/2)	Full
Unit resistance(Ω)	95	(32.5)	7
Tolerance	±2.5°	±5°	±2.5°
Angle	-30°	0°	+30°

8. WHEN GAUGES OF FUEL, HYDRAULIC OIL AND COOLANT INDICATE HIGH OR FULL

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



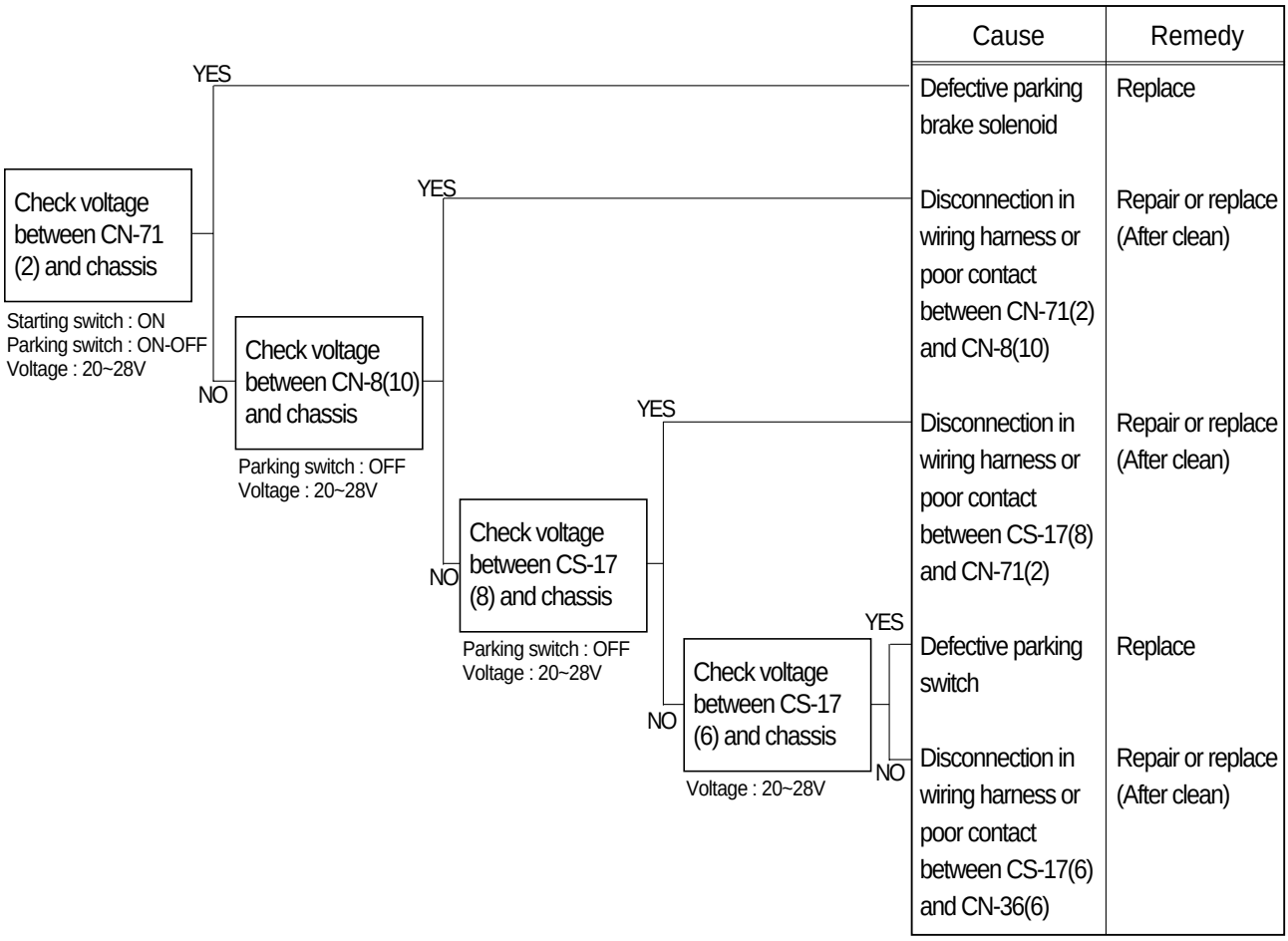
Cause	Remedy
Defective cluster	Replace
Disconnection in wiring harness or poor contact between CN-7 (13) and chassis	Repair or replace (After clean)

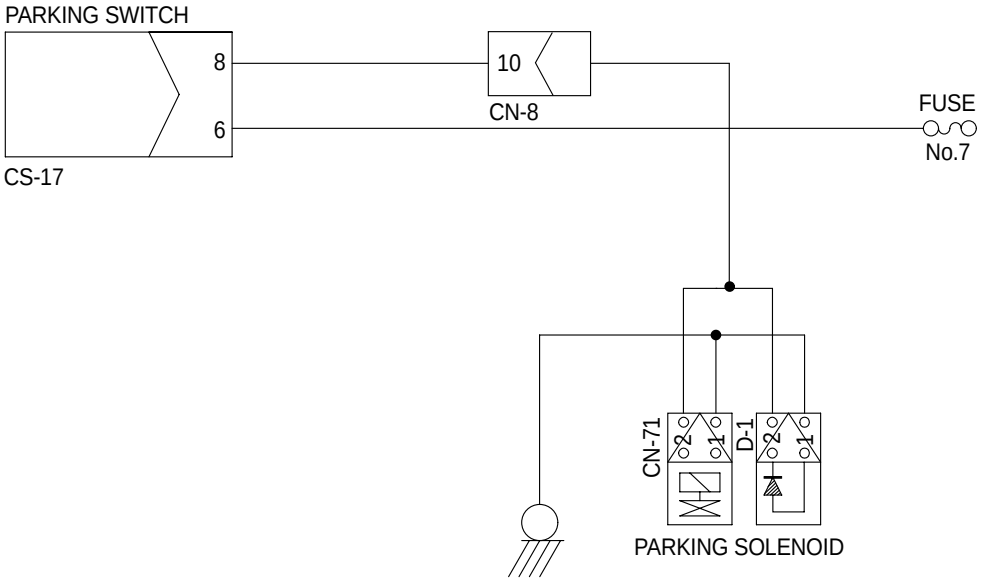
Check resistance

YES	MAX 1 Ω
NO	MIN 1M Ω

9. WHEN PARKING SOLENOID DOES NOT WORK

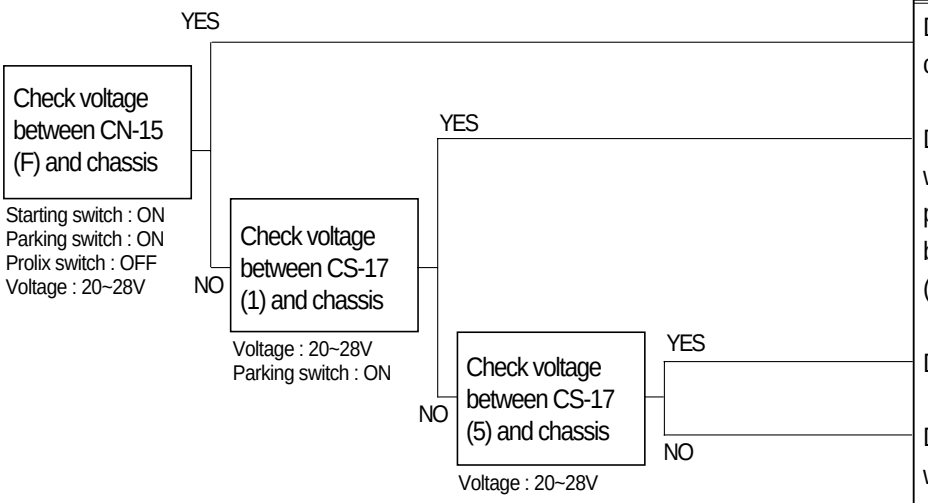
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.7 is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



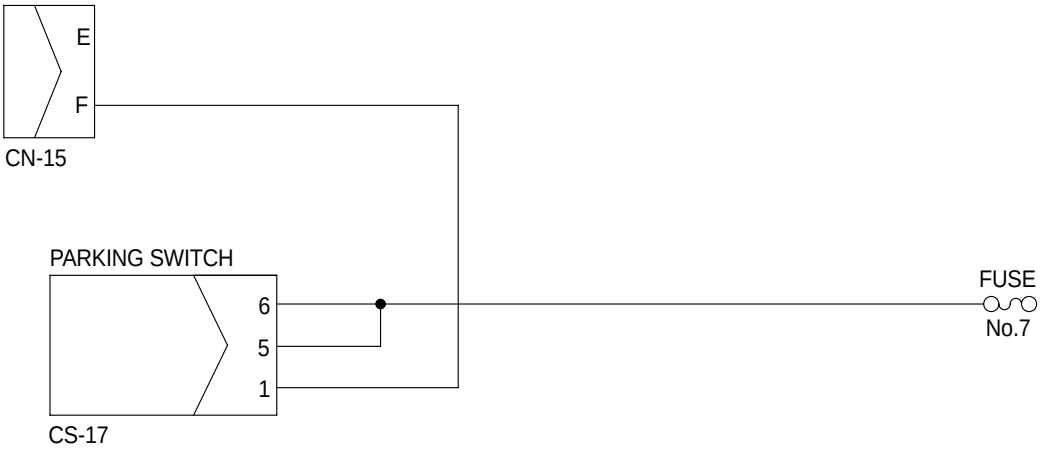


10. TRANSMISSION IS NOT RETURNED TO NEUTRAL WHEN PARKING BRAKE IS APPLIED

- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.14(Transmission controller) and No.7 are not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.

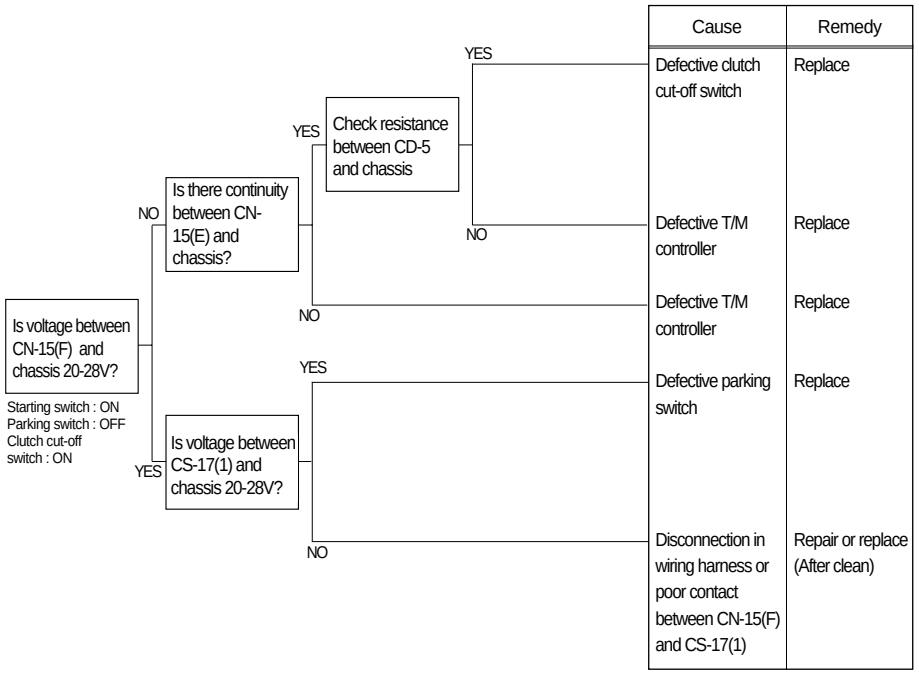


Cause	Remedy
Defective T/M controller	Replace
Disconnection in wiring harness or poor contact between CN-15 (F) and CS-17(1)	Repair or replace (After clean)
Defective switch	Replace
Disconnection in wiring harness or poor contact between CS-17(5) and fuse No.7	Repair or replace (After clean)



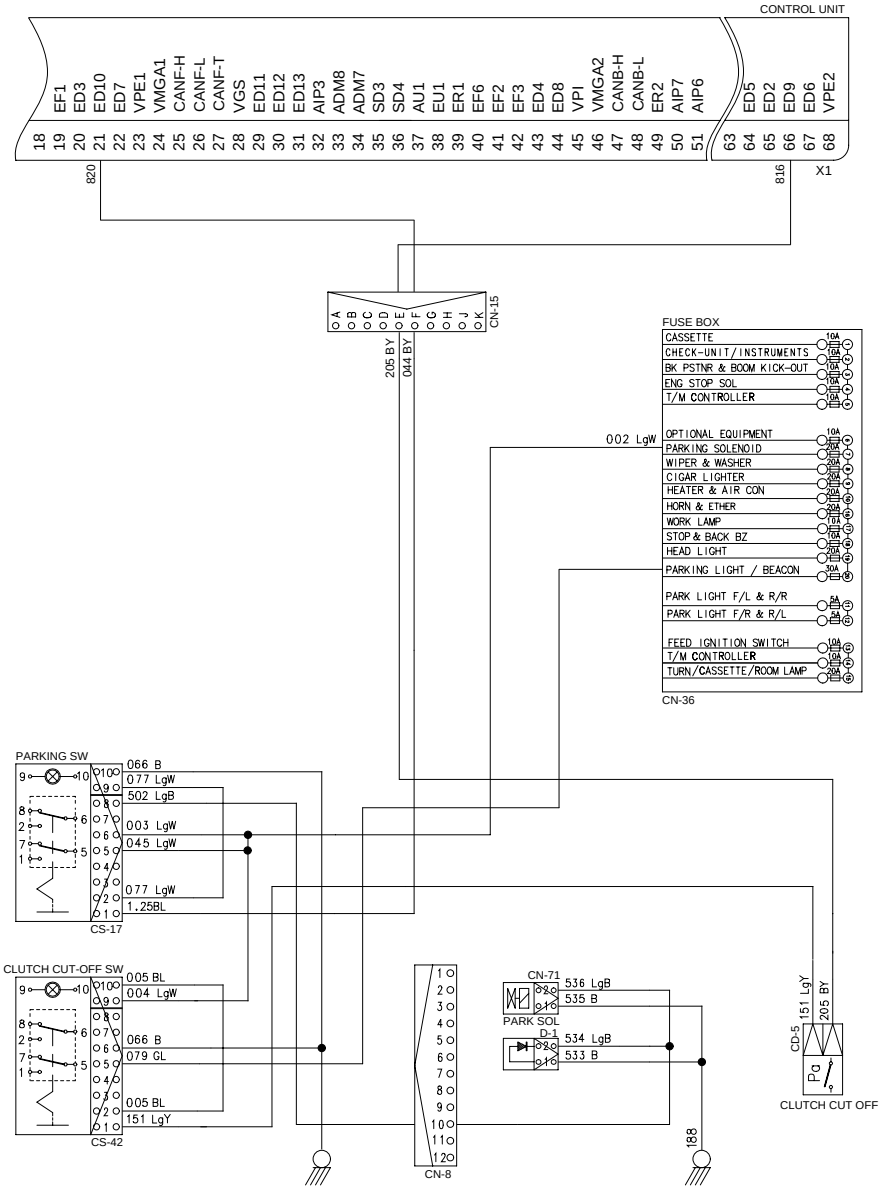
11. MACHINE DOES NOT TRAVEL

- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.1(Transmission controller) is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



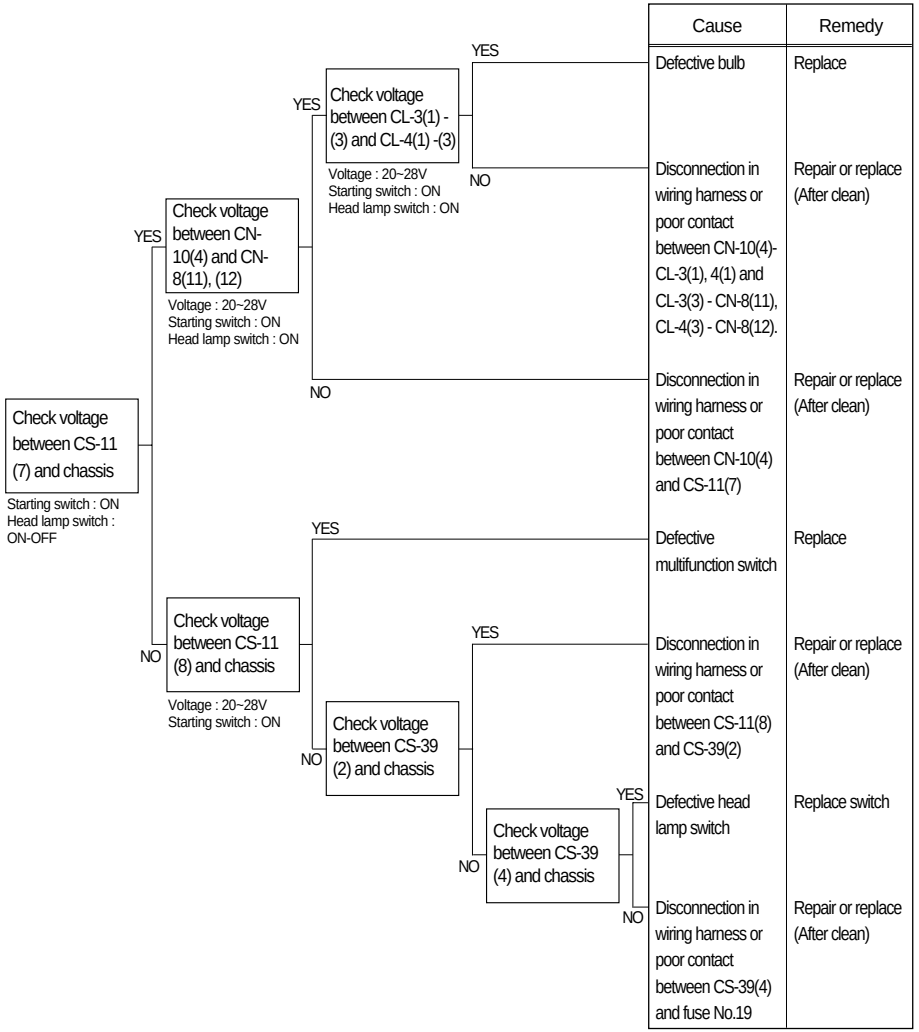
Check resistance

YES	MAX 1 Ω
NO	MIN 1M Ω

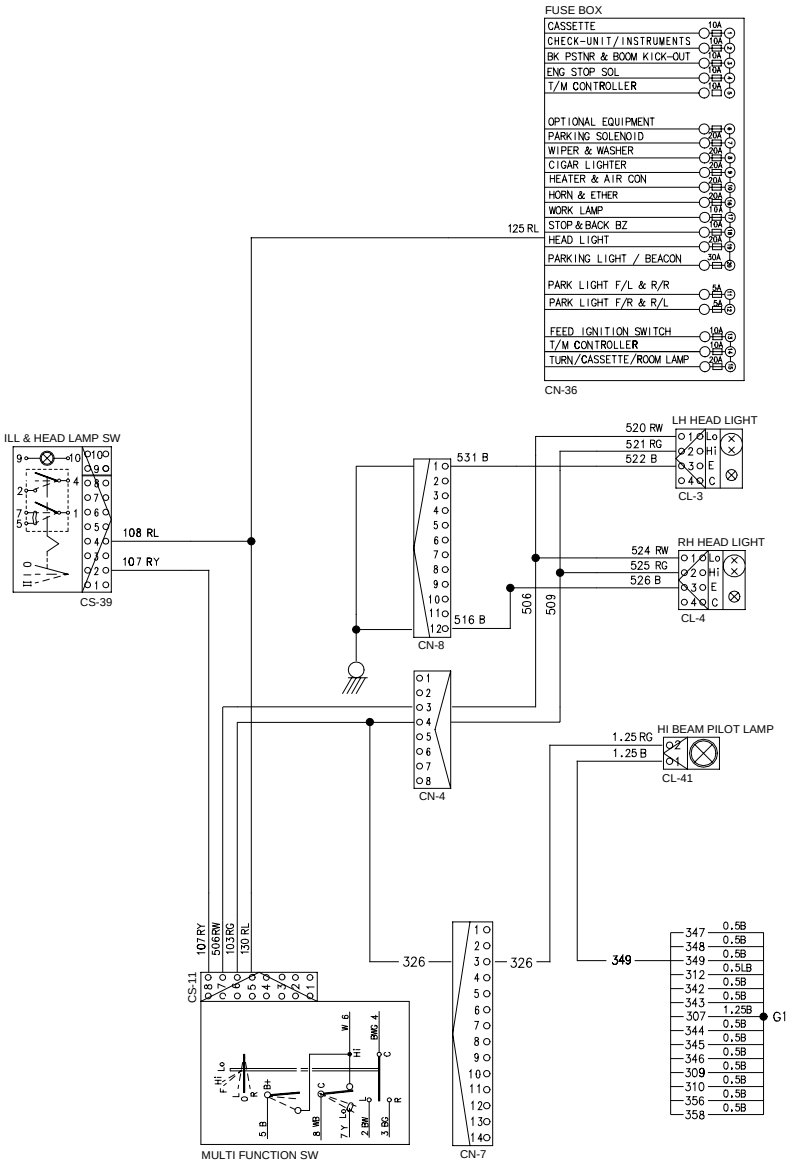


12. WHEN STARTING SWITCH IS TURNED ON, HEAD LAMP DOES NOT LIGHTS UP

- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.19 is not blown out and ON/OFF of bulb.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.

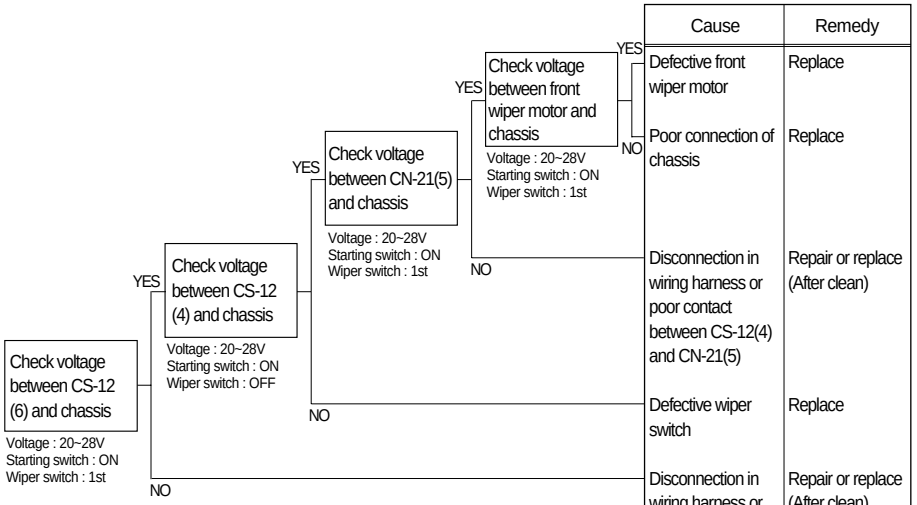


Cause	Remedy
Defective bulb	Replace
Disconnection in wiring harness or poor contact between CN-10(4)-CL-3(1), 4(1) and CL-3(3) - CN-8(11), CL-4(3) - CN-8(12).	Repair or replace (After clean)
Disconnection in wiring harness or poor contact between CN-10(4) and CS-11(7)	Repair or replace (After clean)
Defective multifunction switch	Replace
Disconnection in wiring harness or poor contact between CS-11(8) and CS-39(2)	Repair or replace (After clean)
Defective head lamp switch	Replace switch
Disconnection in wiring harness or poor contact between CS-39(4) and fuse No.19	Repair or replace (After clean)

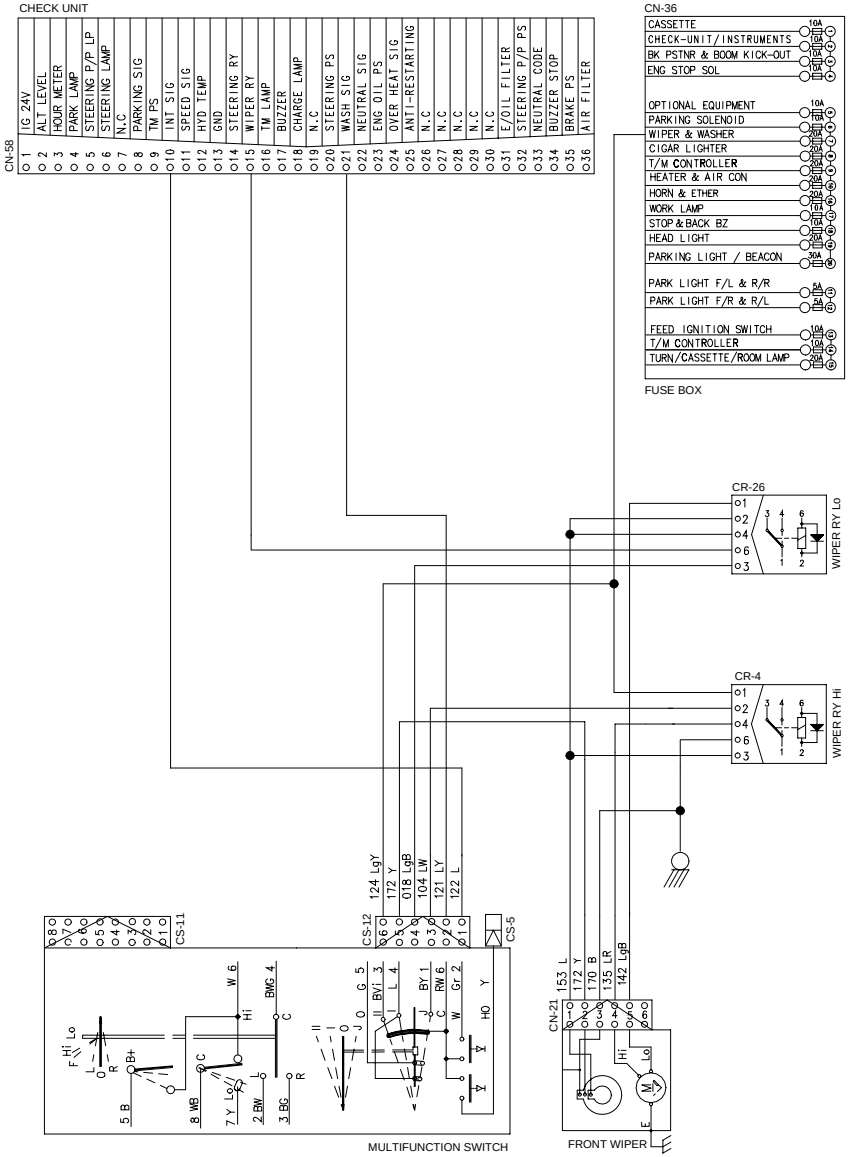


13. WHEN STARTING SWITCH IS TURNED ON, WIPER MOTOR DOES NOT OPERATE

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

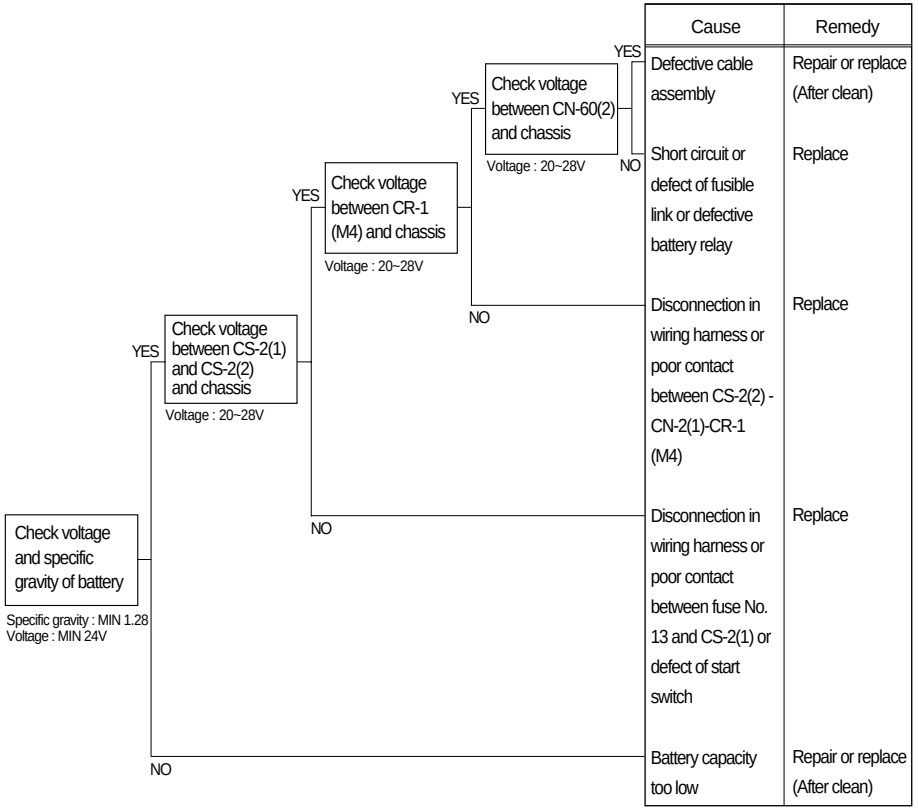


Cause	Remedy
Defective front wiper motor	Replace
Poor connection of chassis	Replace
Disconnection in wiring harness or poor contact between CS-12(4) and CN-21(5)	Repair or replace (After clean)
Defective wiper switch	Replace
Disconnection in wiring harness or poor contact between CS-12(6) and fuse No.7	Repair or replace (After clean)

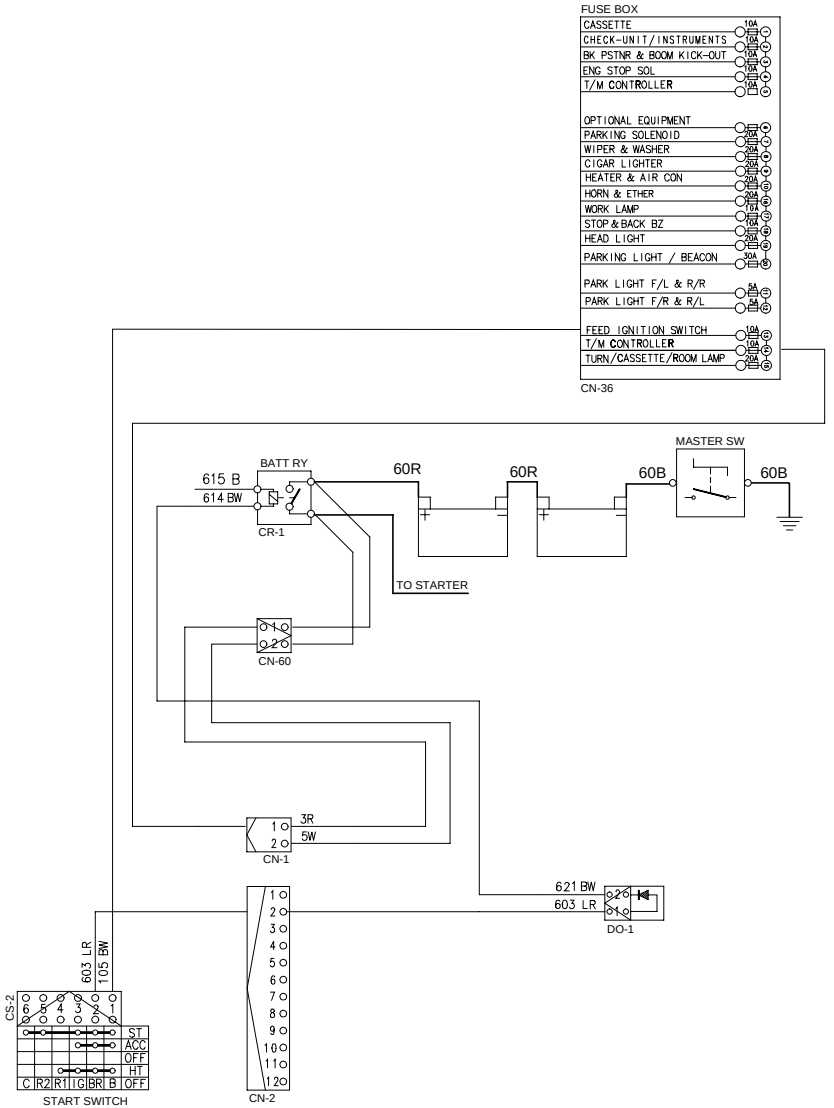


14. WHEN STARTING SWITCH ON DOES NOT OPERATE

- Before carrying out below procedure, check all the related connectors are properly inserted and and the fuse No.15 is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.

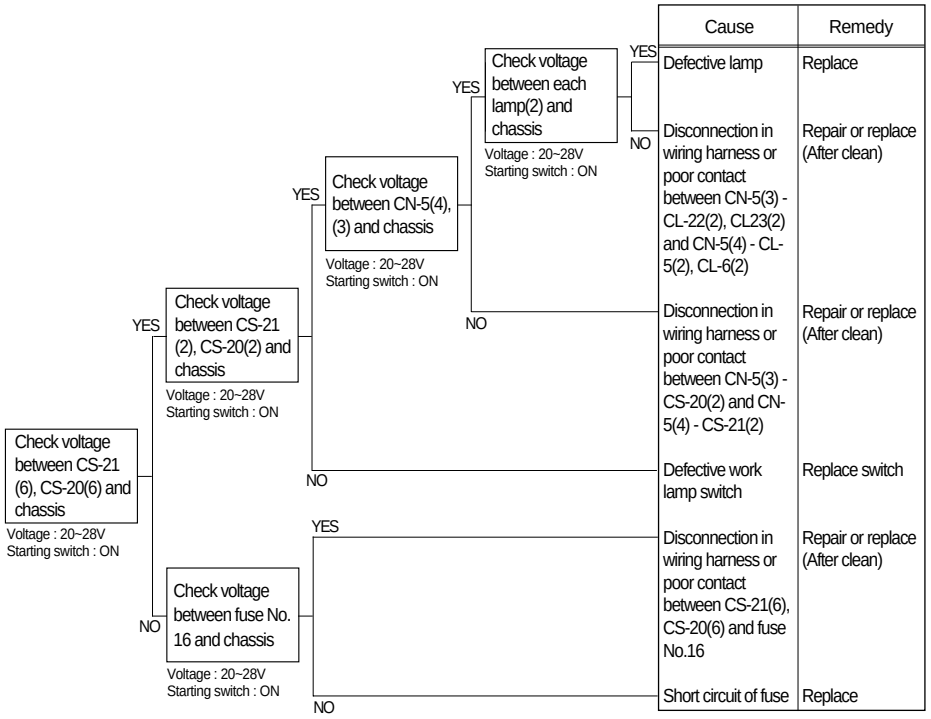


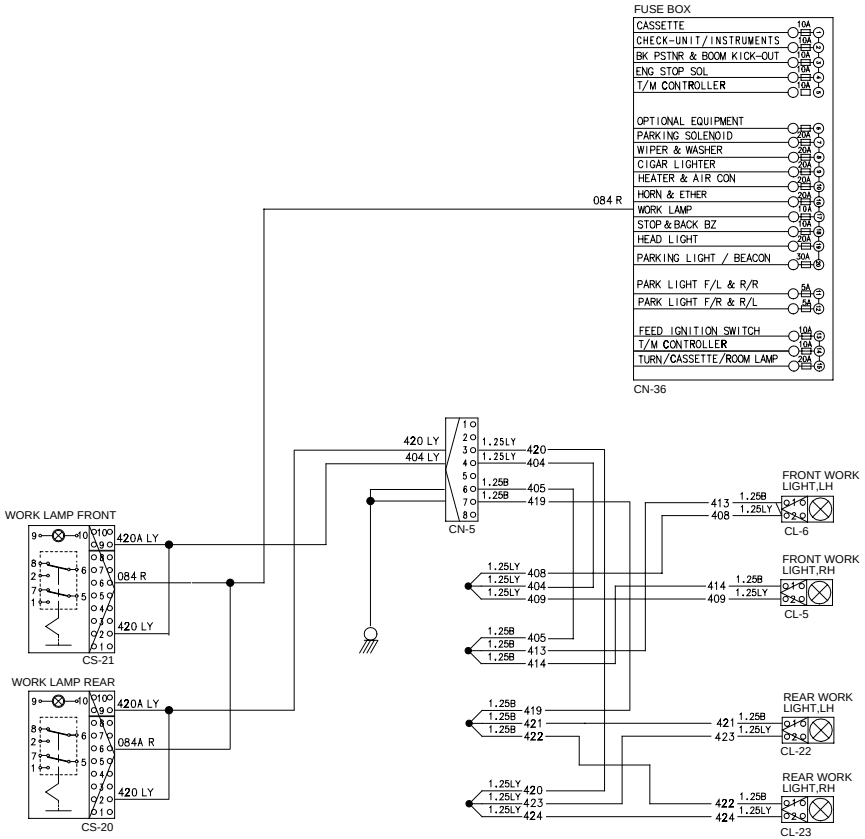
Cause	Remedy
Defective cable assembly	Repair or replace (After clean)
Short circuit or defect of fusible link or defective battery relay	Replace
Disconnection in wiring harness or poor contact between CS-2(2) - CN-2(1)-CR-1 (M4)	Replace
Disconnection in wiring harness or poor contact between fuse No. 13 and CS-2(1) or defect of start switch	Replace
Battery capacity too low	Repair or replace (After clean)



15. WHEN STARTING SWITCH IS TURNED ON, WORK LAMP DOES NOT LIGHTS UP

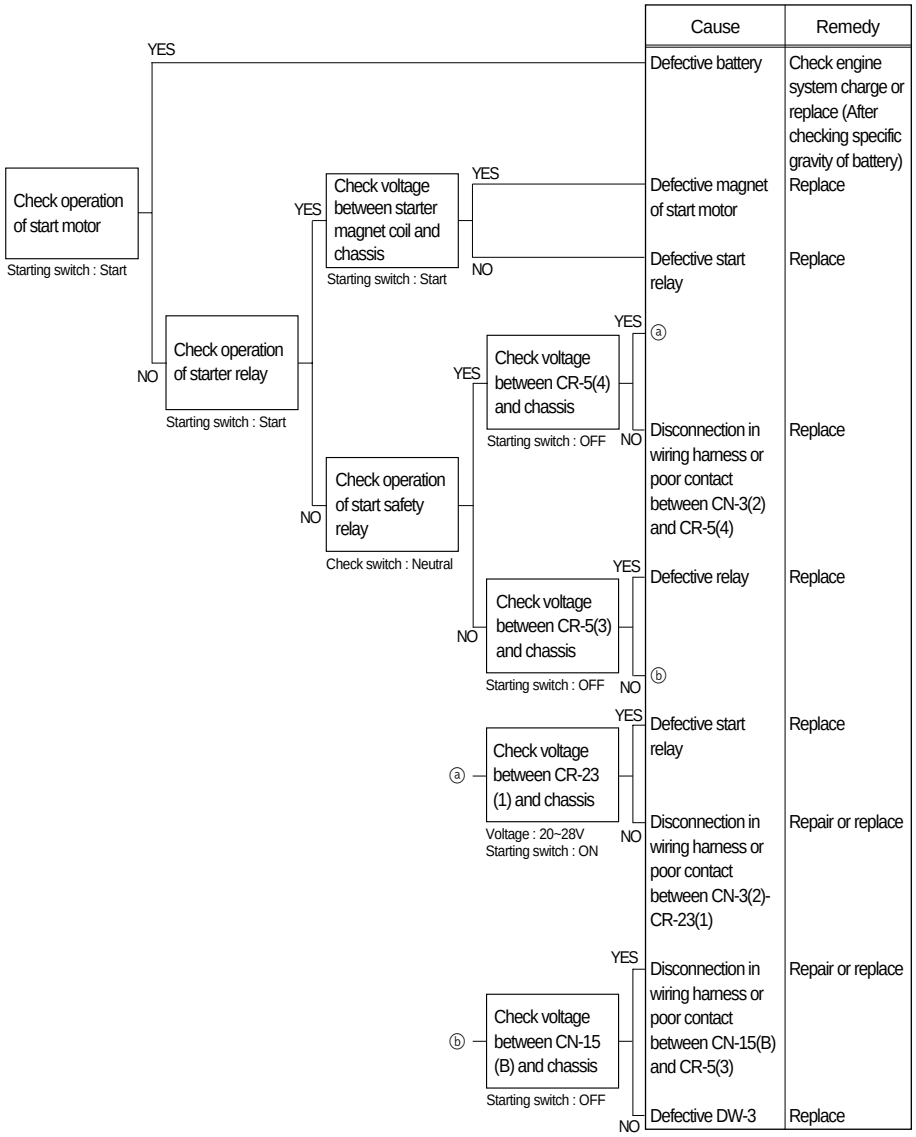
- Before carrying out below procedure, check all the related connectors are properly inserted, and the fuse No.16 is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.





16. WHEN ENGINE DOES NOT START

- Check supply of the power at engine stop solenoid while starting switch is ON.
- 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 forward reverse switch at neutral position.



Cause	Remedy
Defective battery	Check engine system charge or replace (After checking specific gravity of battery)
Defective magnet of start motor	Replace
Defective start relay	Replace
Disconnection in wiring harness or poor contact between CN-3(2) and CR-5(4)	Replace
Defective relay	Replace
Defective start relay	Replace
Disconnection in wiring harness or poor contact between CN-3(2)-CR-23(1)	Repair or replace
Disconnection in wiring harness or poor contact between CN-15(B) and CR-5(3)	Repair or replace
Defective DW-3	Replace