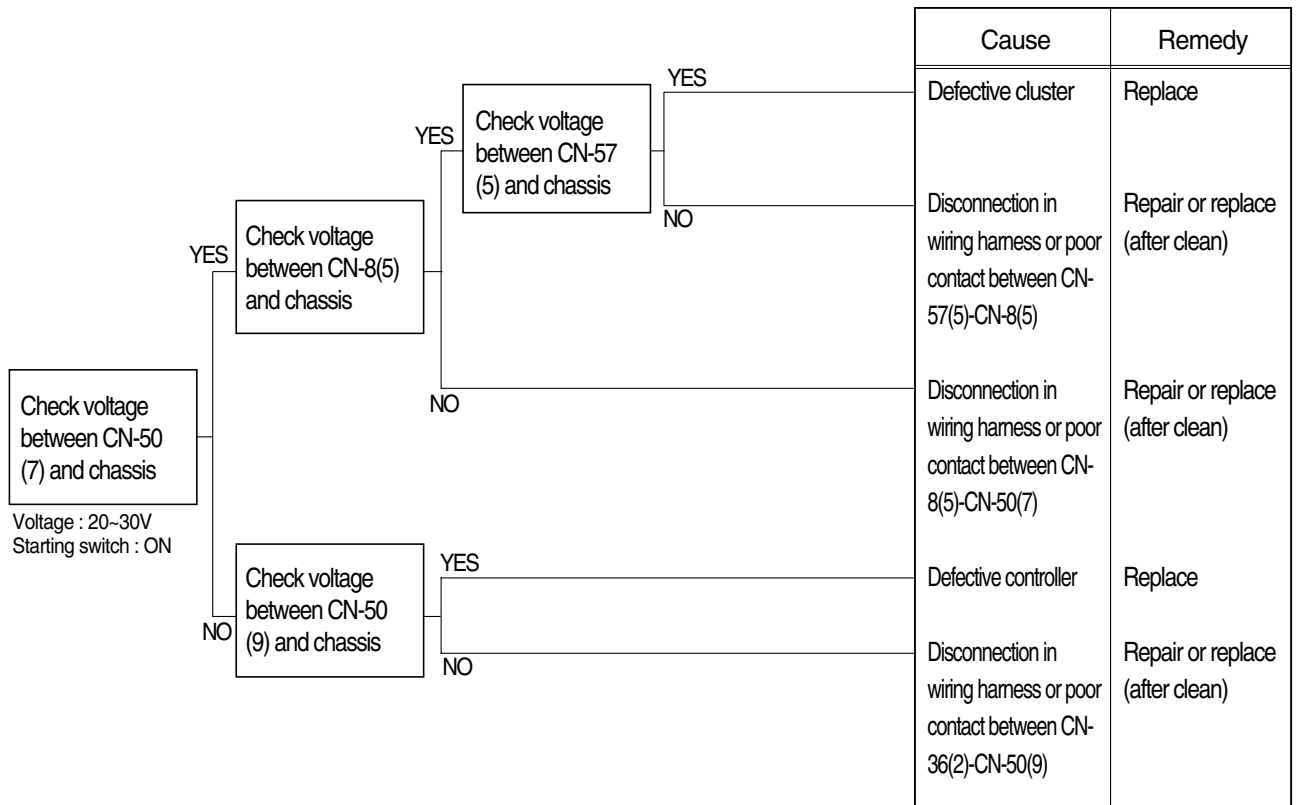


GROUP 3 ELECTRICAL SYSTEM(up to #138)

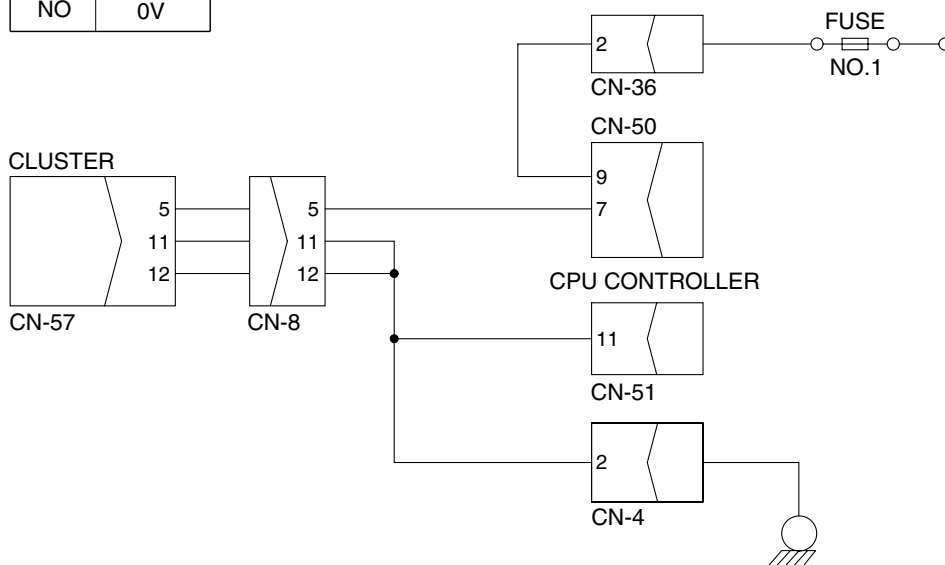
1. WHEN STARTING SWITCH IS TURNED ON, MONITOR PANEL DISPLAY DOES NOT APPEAR

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.1(CPU) is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



Check voltage

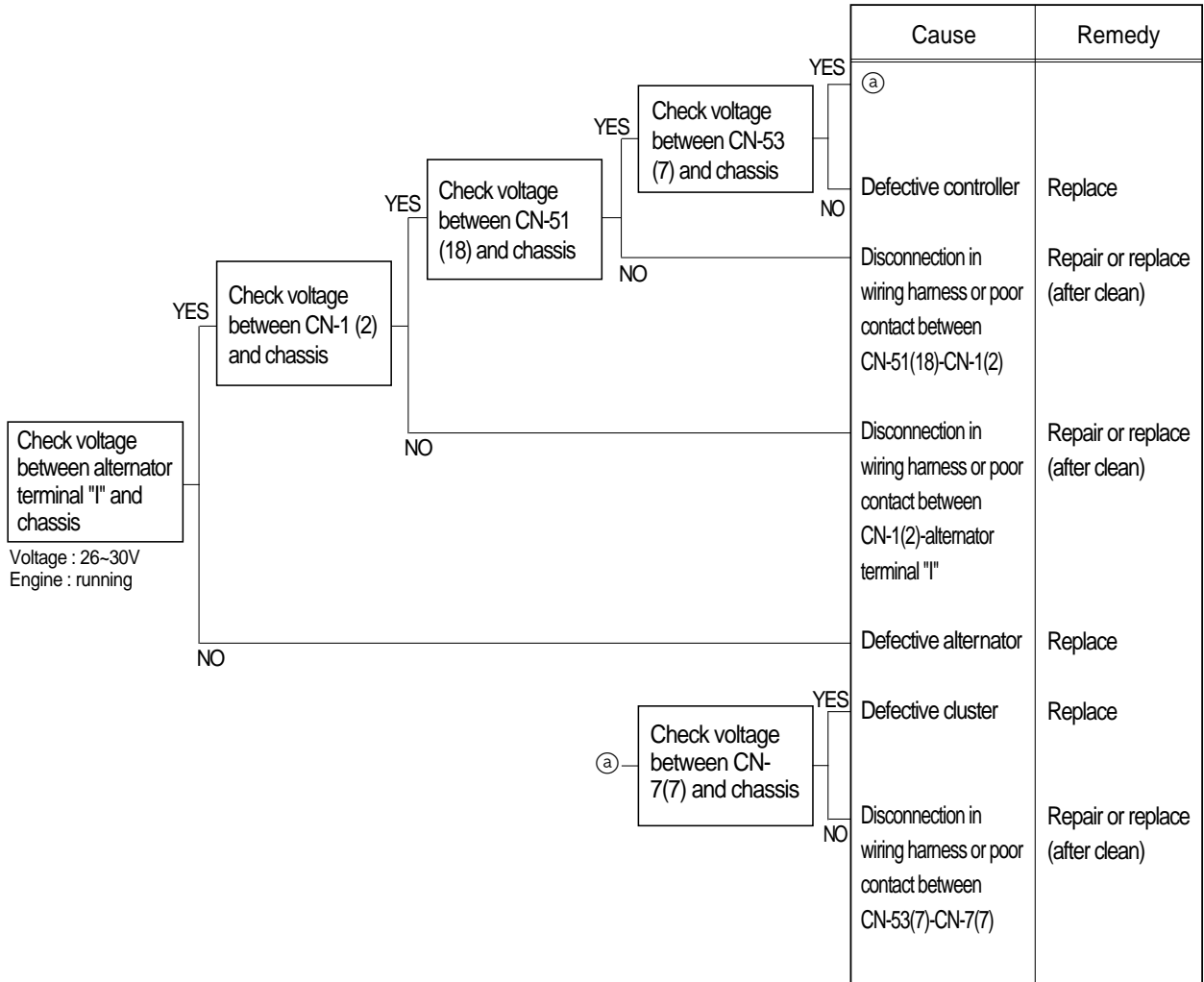
YES	20 ~ 30V
NO	0V



18036ES01

2. BATTERY CHARGING LAMP LIGHTS UP(Engine is started)

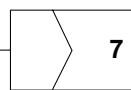
- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



CLUSTER



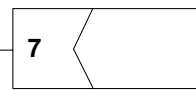
CN-56



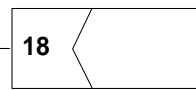
CN-7

*5V
0V

CPU CONTROLLER



CN-53



CN-51



CN-1

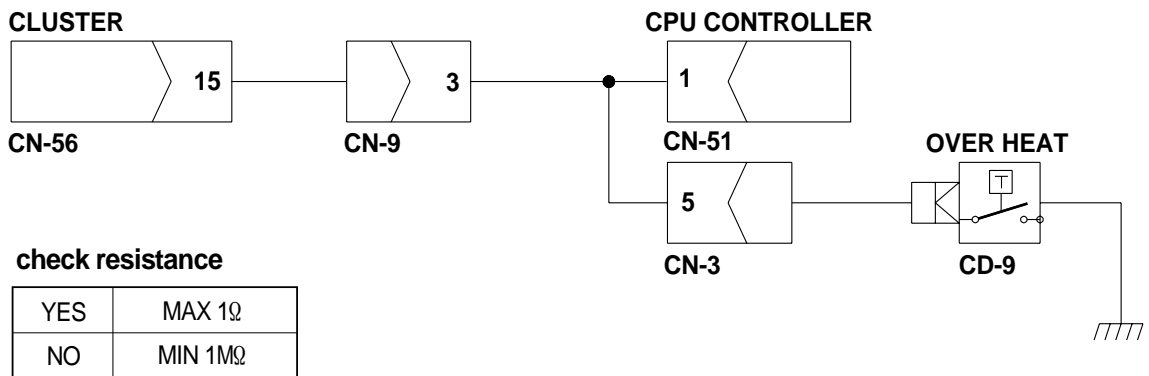
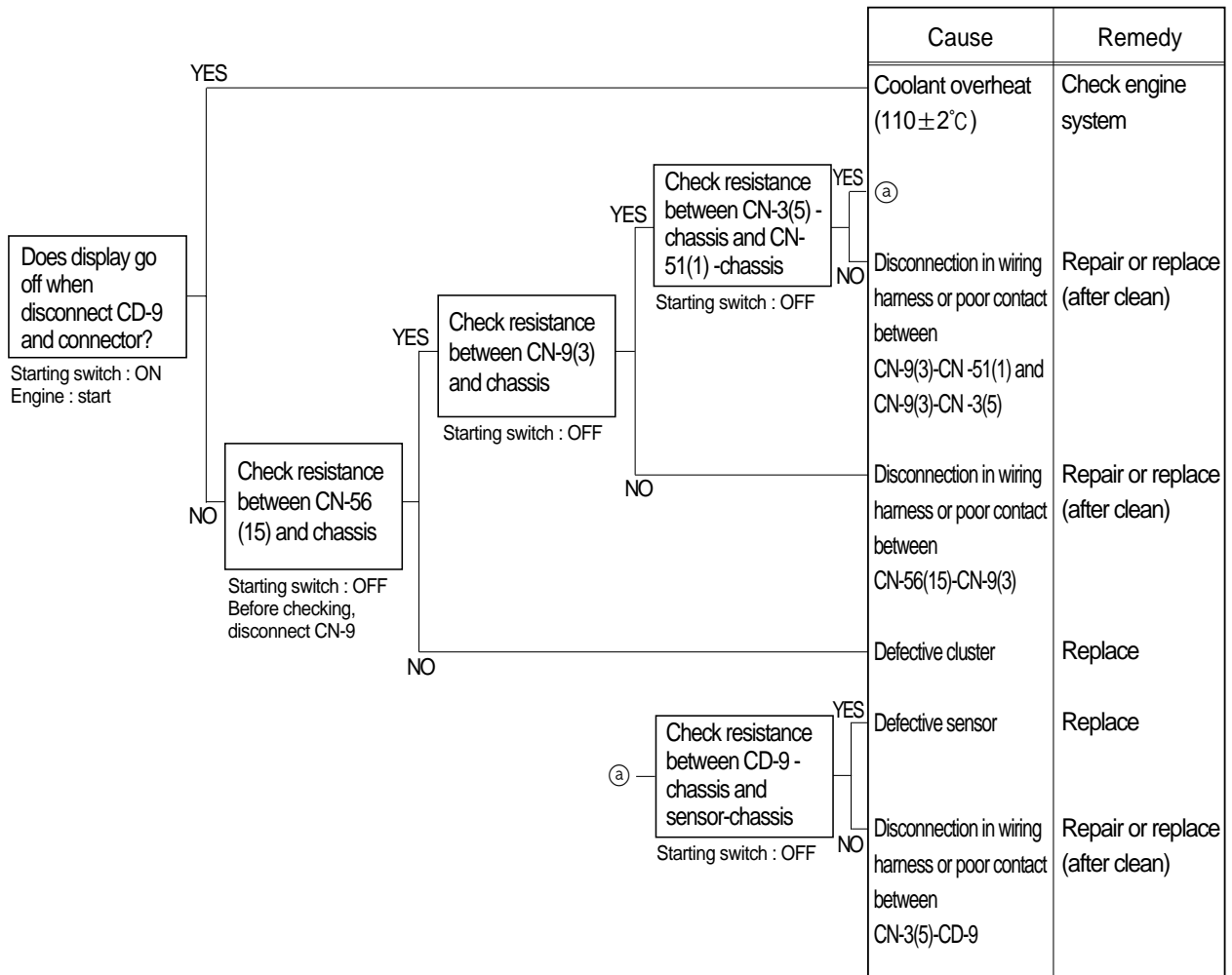
ALTERNATOR
"I" TERMINAL

check voltage

YES	20 ~ 30V	*5V
NO	Below 26V	0V

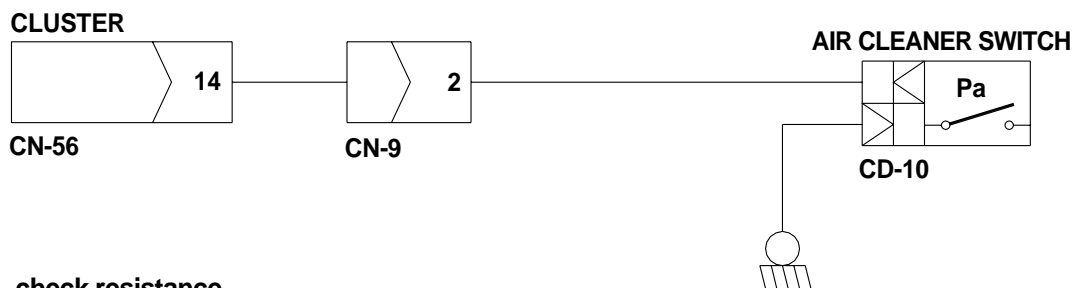
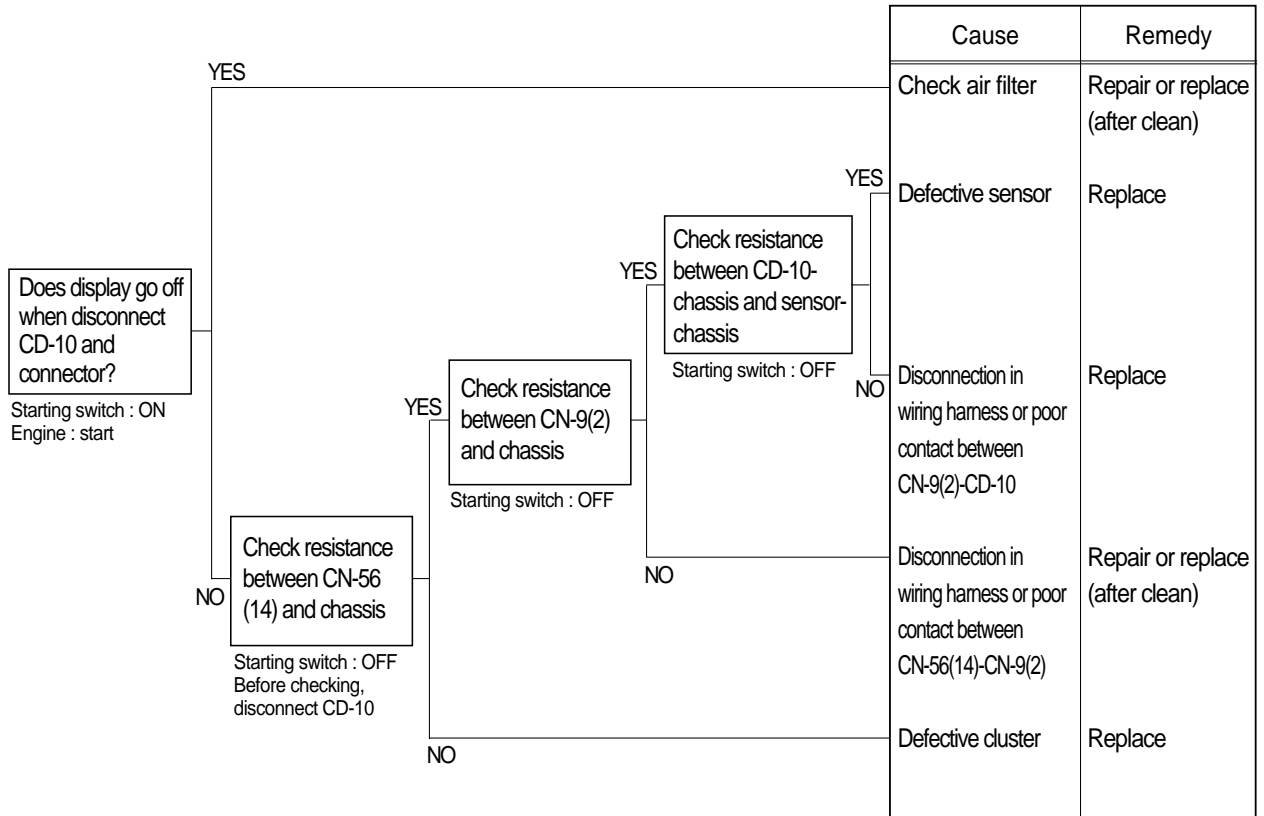
3. WHEN COOLANT OVERHEAT LAMP LIGHTS UP(Engine is started)

- Before disconnecting the connector, always turn the starting switch 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.



4. WHEN AIR CLEANER LAMP LIGHTS UP(Engine is started)

- Before disconnecting the connector, always turn the starting switch 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.

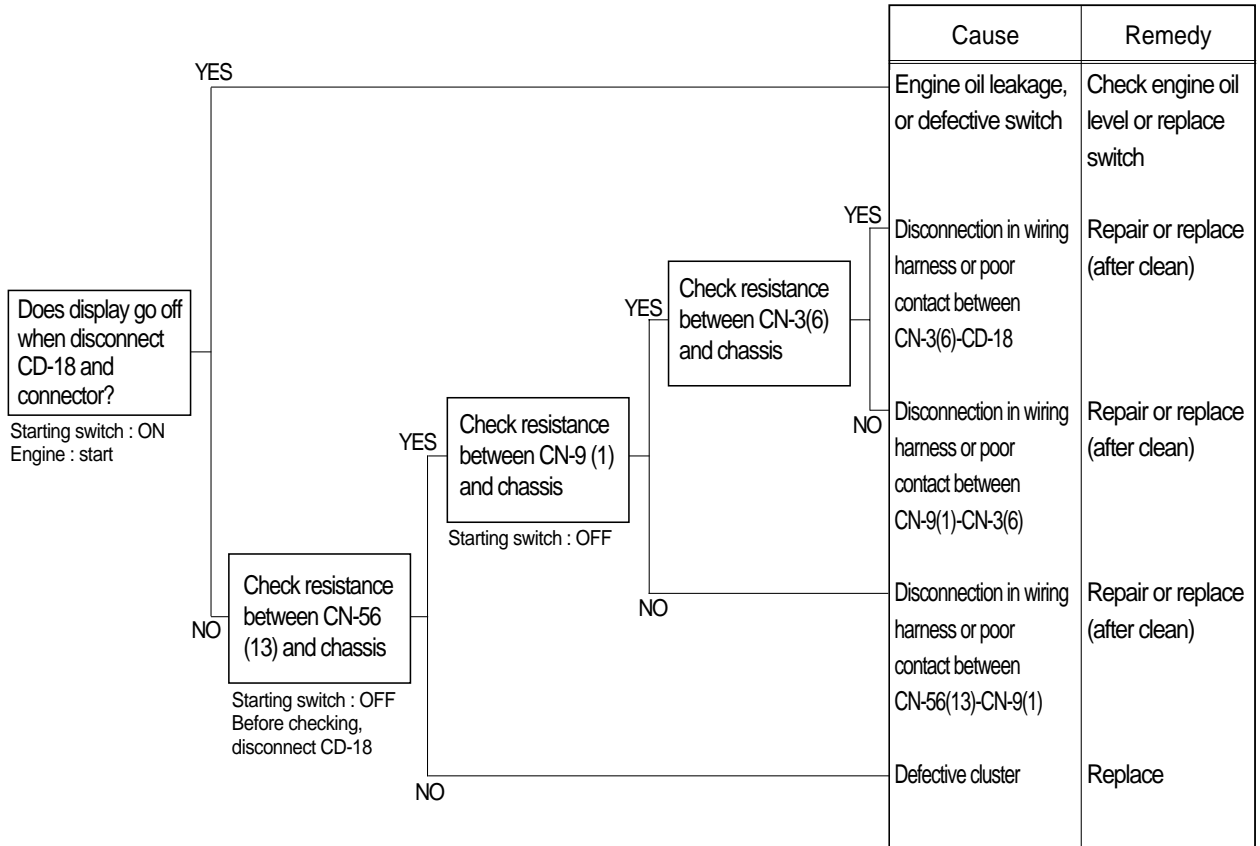


check resistance

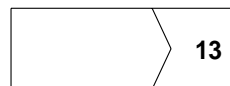
YES	MAX 1Ω
NO	MIN 1MΩ

5. WHEN ENGINE OIL PRESSURE LAMP LIGHTS UP(Engine is started)

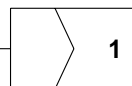
- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



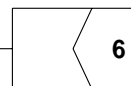
CLUSTER



CN-56

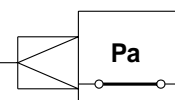


CN-9



CN-3

ENGINE OIL PRESSURE SWITCH



CD-18

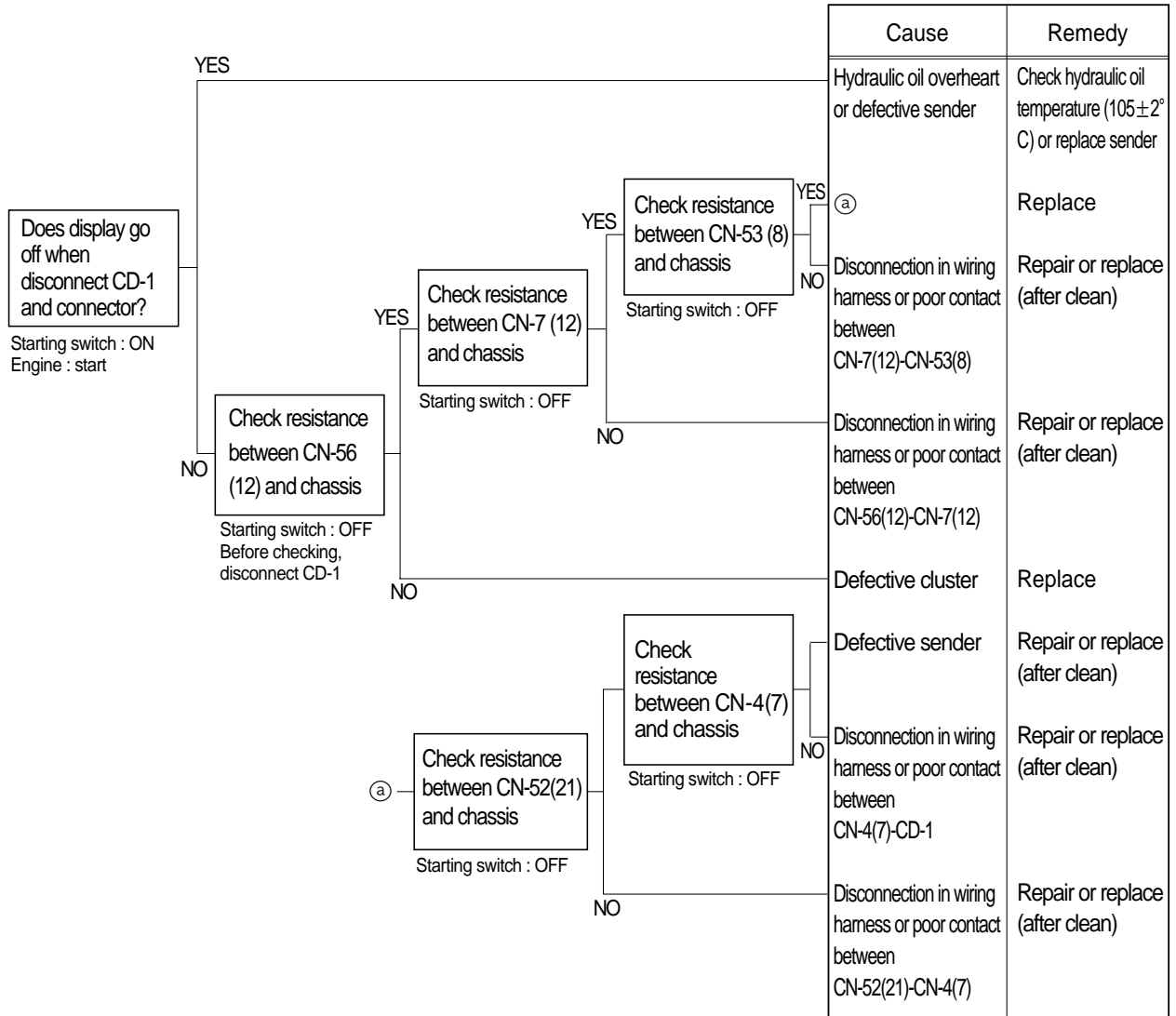


check resistance

YES	MAX 1Ω
NO	MIN 1MΩ

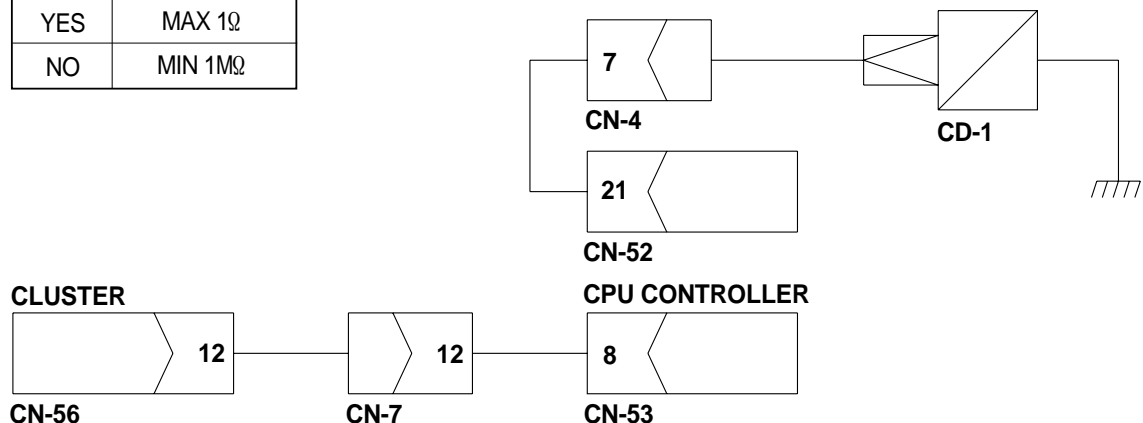
6. WHEN HYDRAULIC OIL TEMPERATURE LAMP LIGHTS UP(Engine is started)

- Before disconnecting the connector, always turn the starting switch 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.



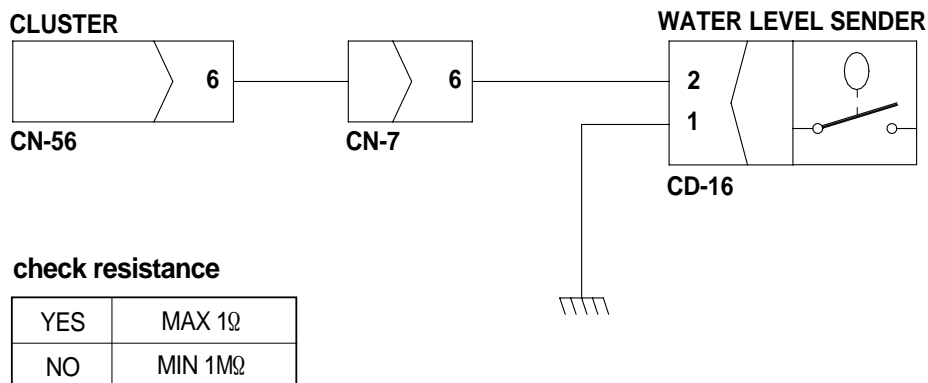
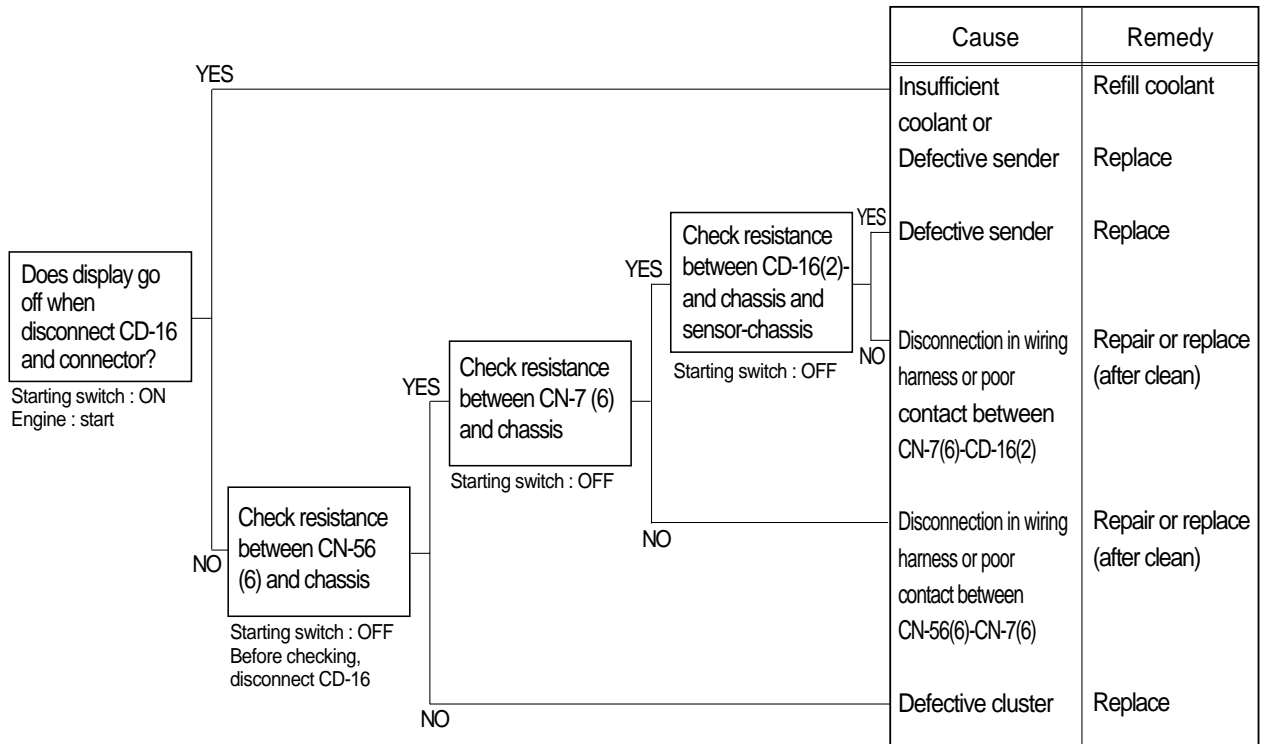
check resistance

YES	MAX 1Ω
NO	MIN $1\text{M}\Omega$



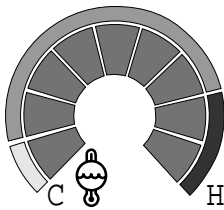
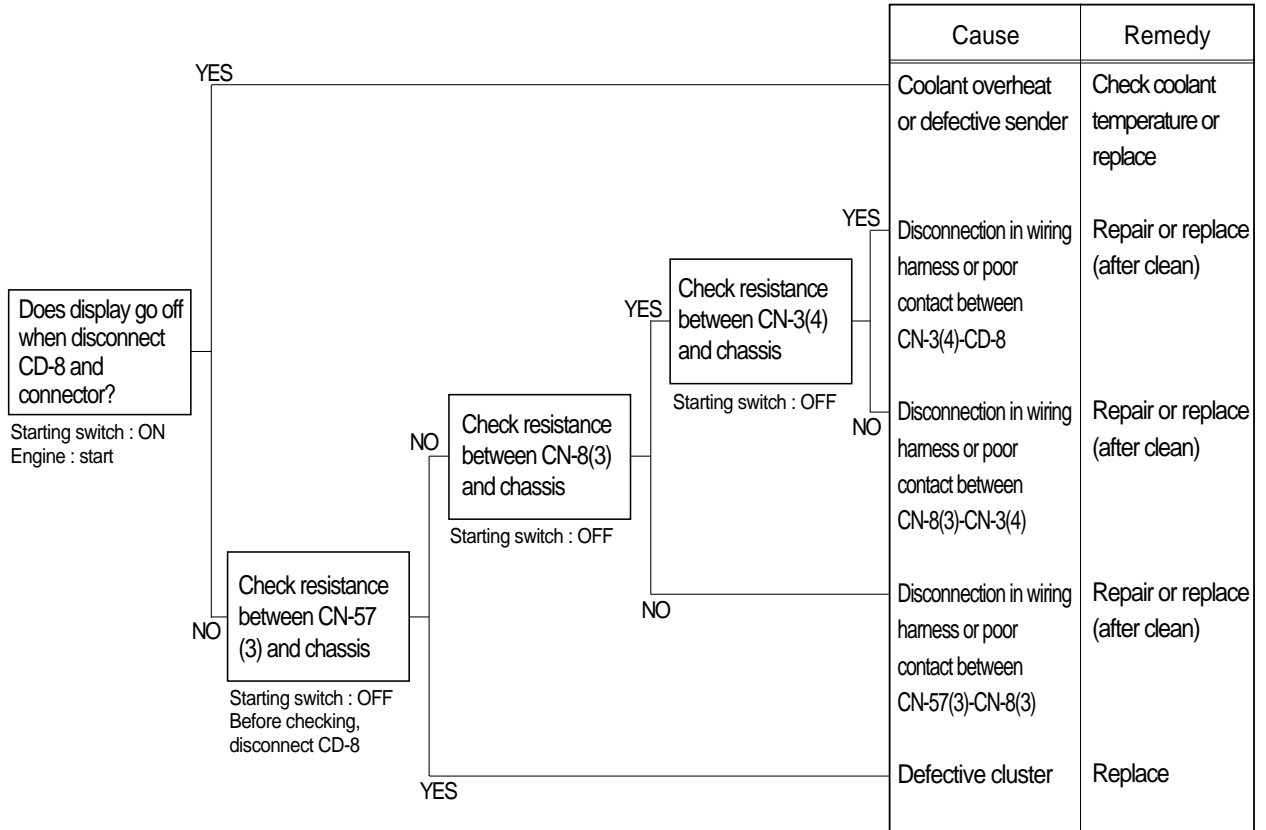
7. WHEN COOLANT LEVEL LAMP LIGHTS UP(Engine is started)

- Before disconnecting the connector, always turn the starting switch 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.



8. WHEN COOLANT TEMPERATURE GAUGE DOES NOT OPERATE (Check coolant temperature lamp ON/OFF)

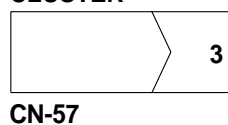
- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



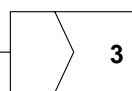
Check Table

Temperature	(50°C)	(80°C)	(100°C)	(120°C)
Item				
Unit resistance(Ω)	(153.9)	51.9	27.4	(16.1)
Tolerance	+25, -20	+4.9, -1.2	+1.9, -1.2	±1.2

CLUSTER



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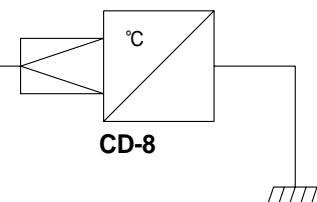


CN-8



CN-3

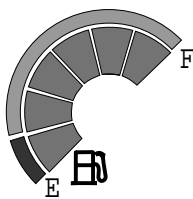
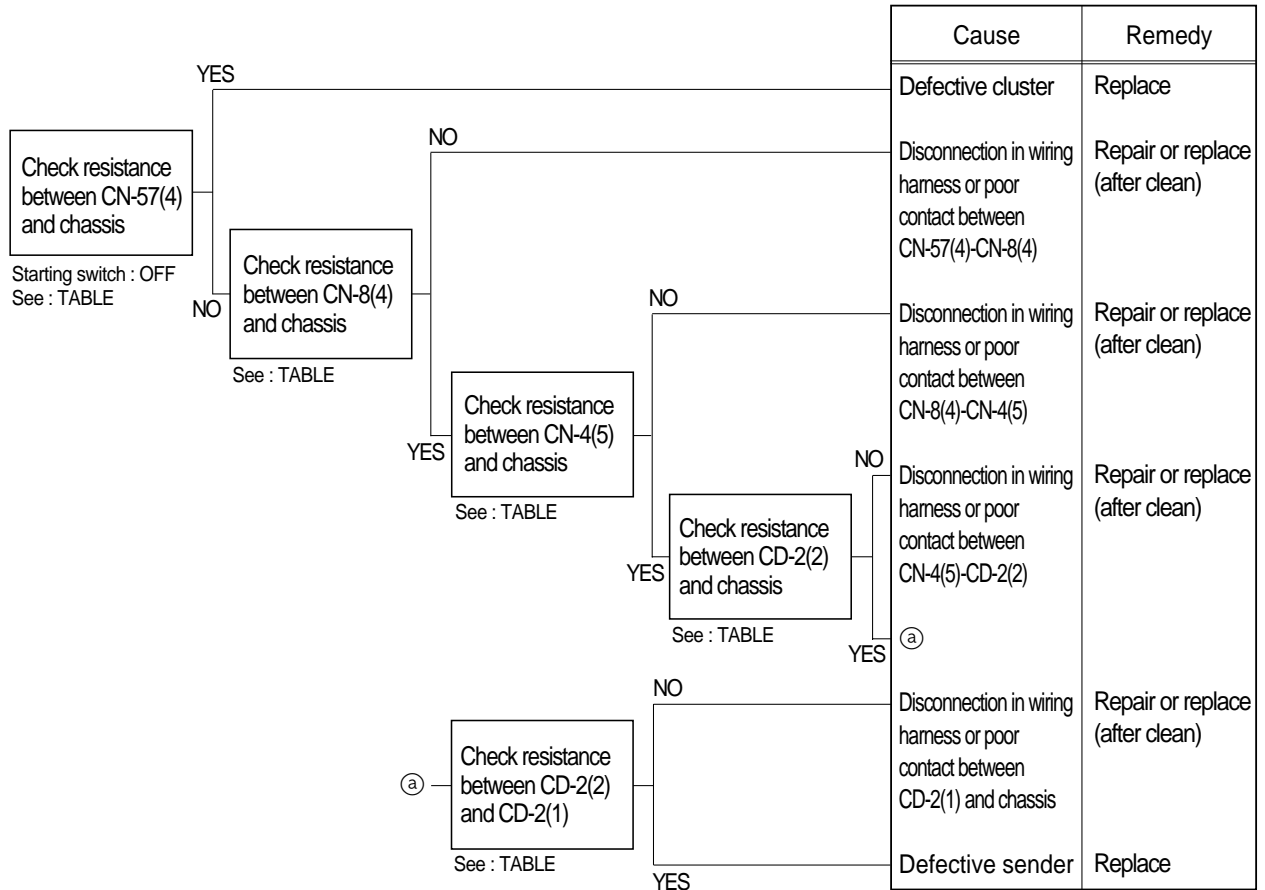
WATER TEMPERATURE SENDER



CD-8

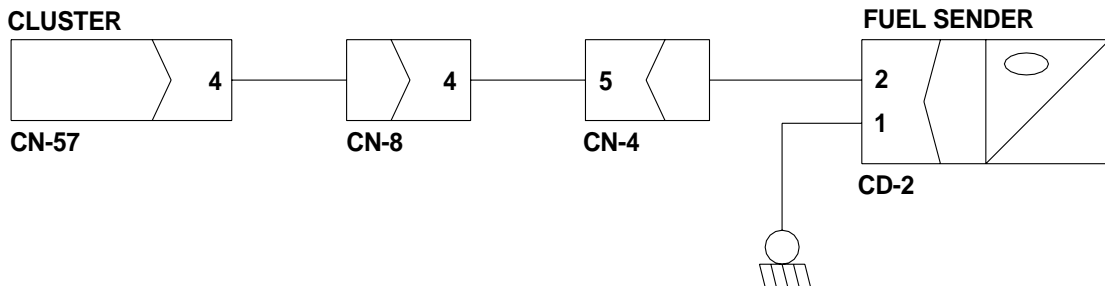
9. WHEN FUEL GAUGE DOES NOT OPERATE(Check warning lamp ON/OFF)

- Before disconnecting the connector, always turn the starting switch 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.



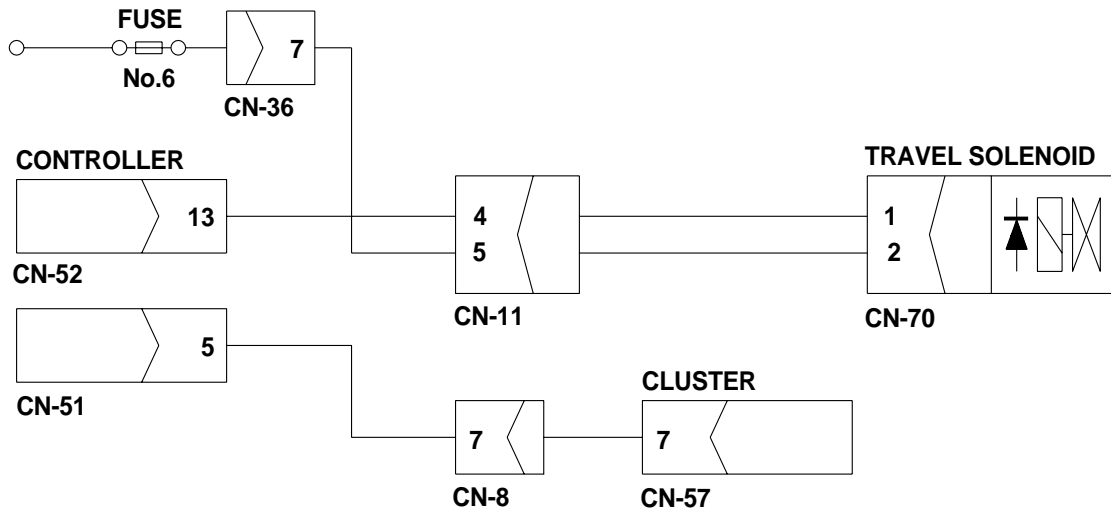
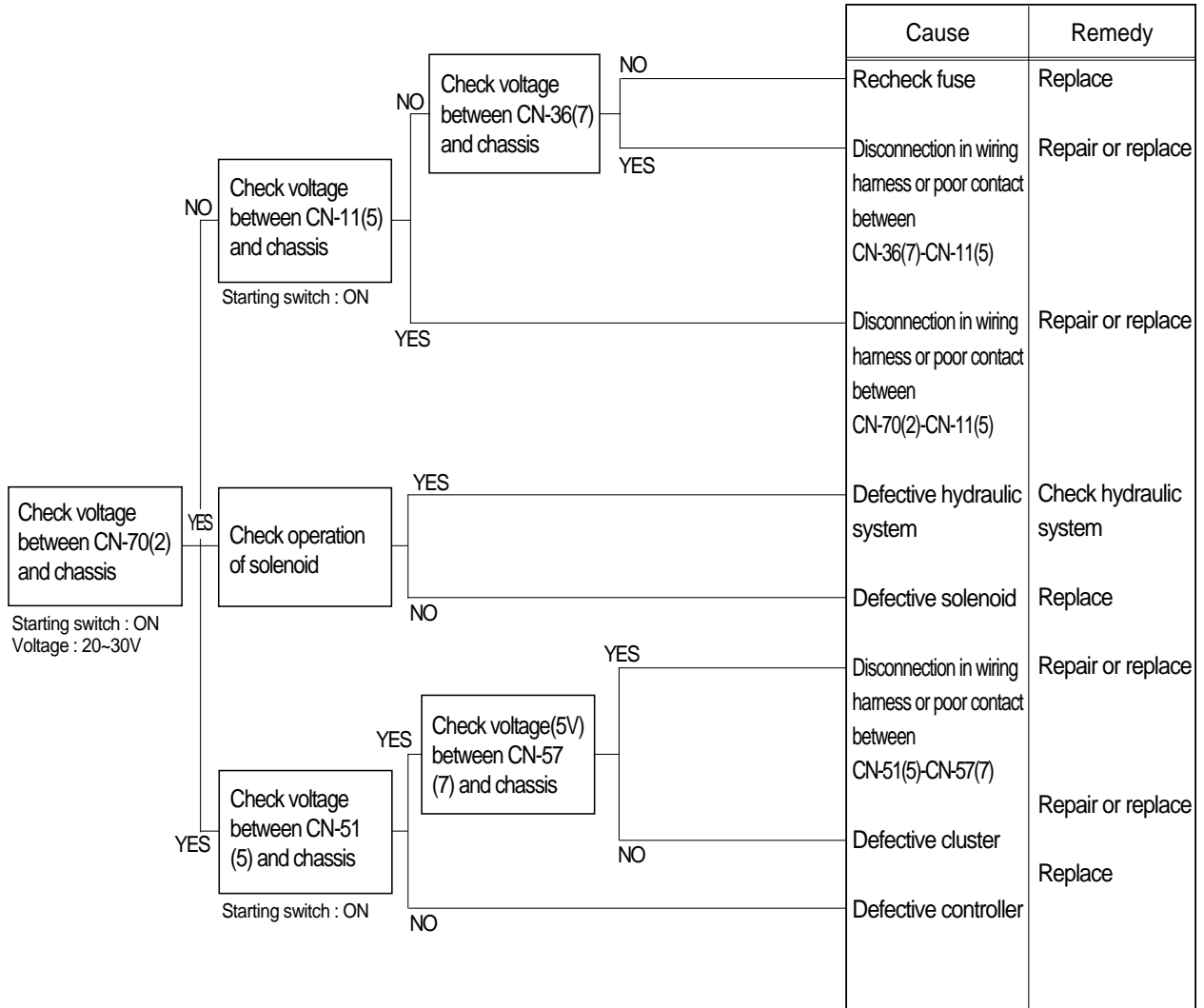
Check Table

Level	Empty	(1/2)	Full
Item			
Unit resistance(Ω)	110	(32.5)	3
Tolerance	±3	±3	±2



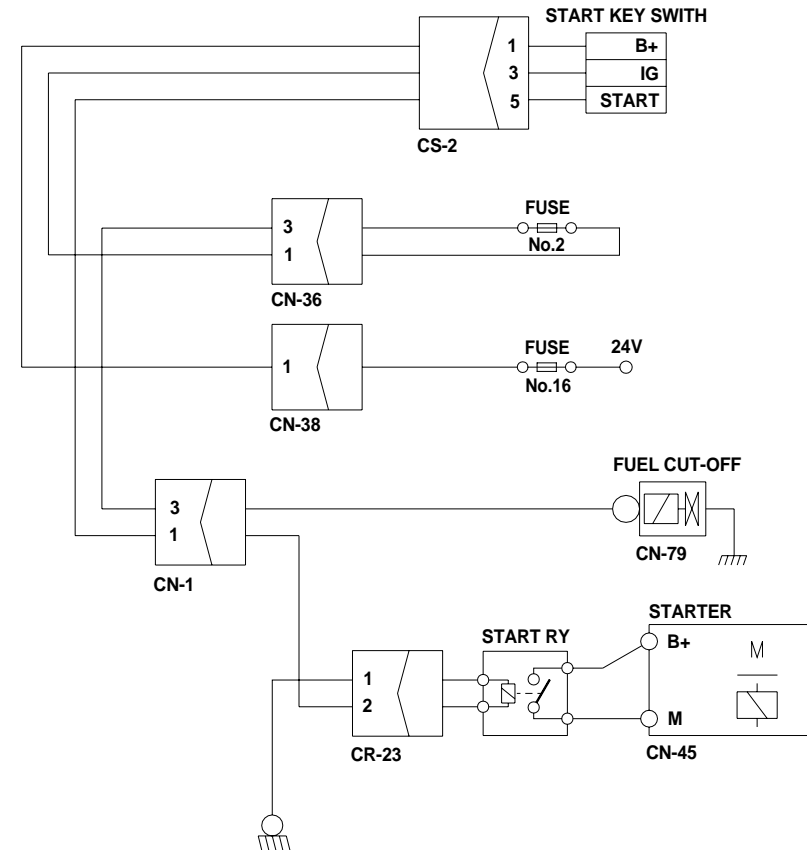
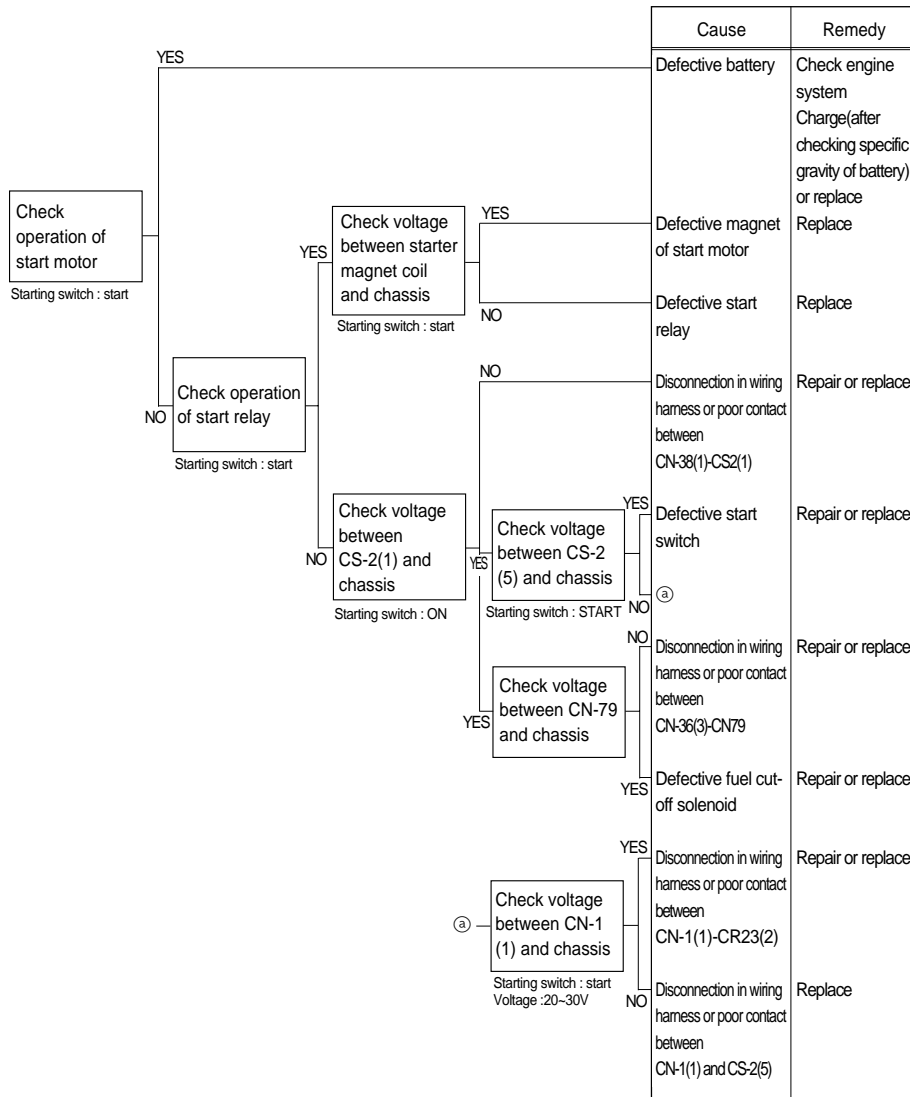
11. WHEN TRAVEL SPEED 1, 2 DOES NOT OPERATE

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.6 is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



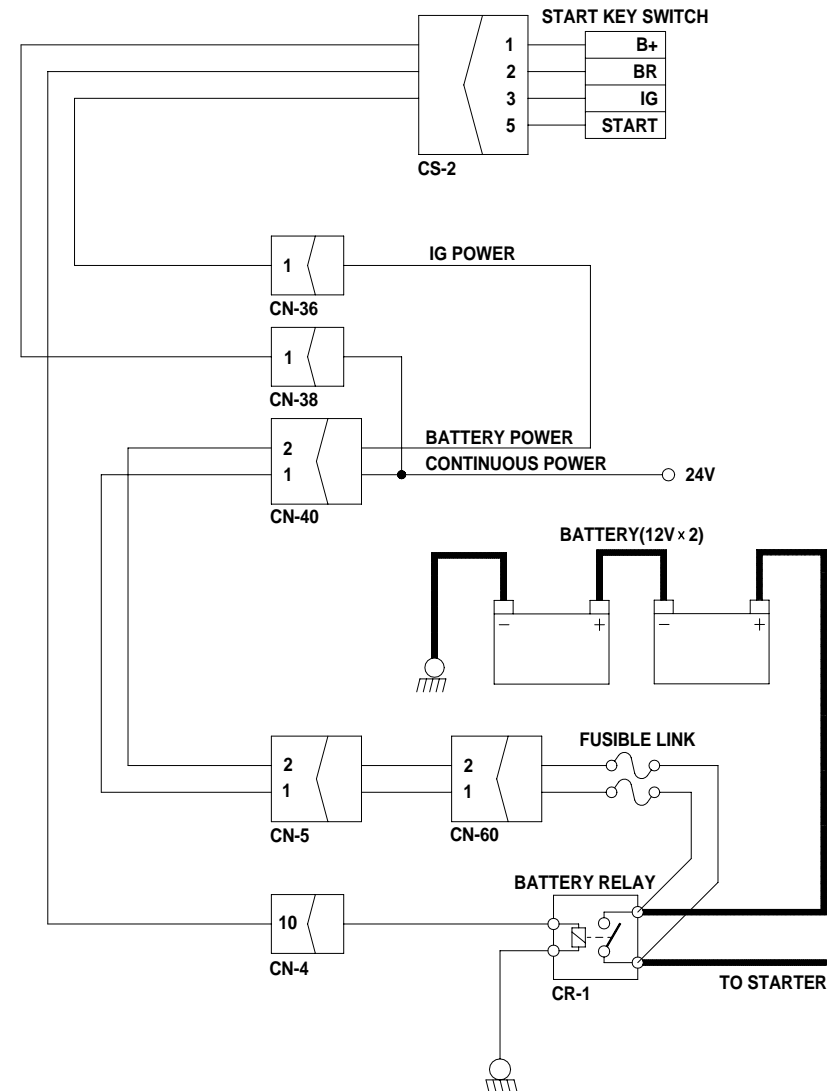
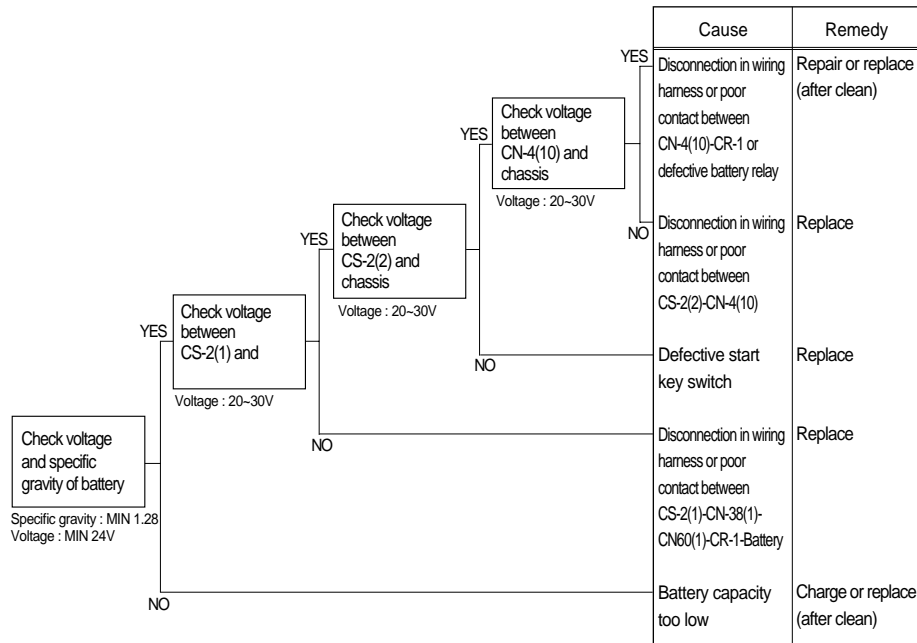
12. WHEN ENGINE DOES NOT START

- Check supply of the power at fuel stop solenoid while starting switch is ON.
- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.2 and No.16 are not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



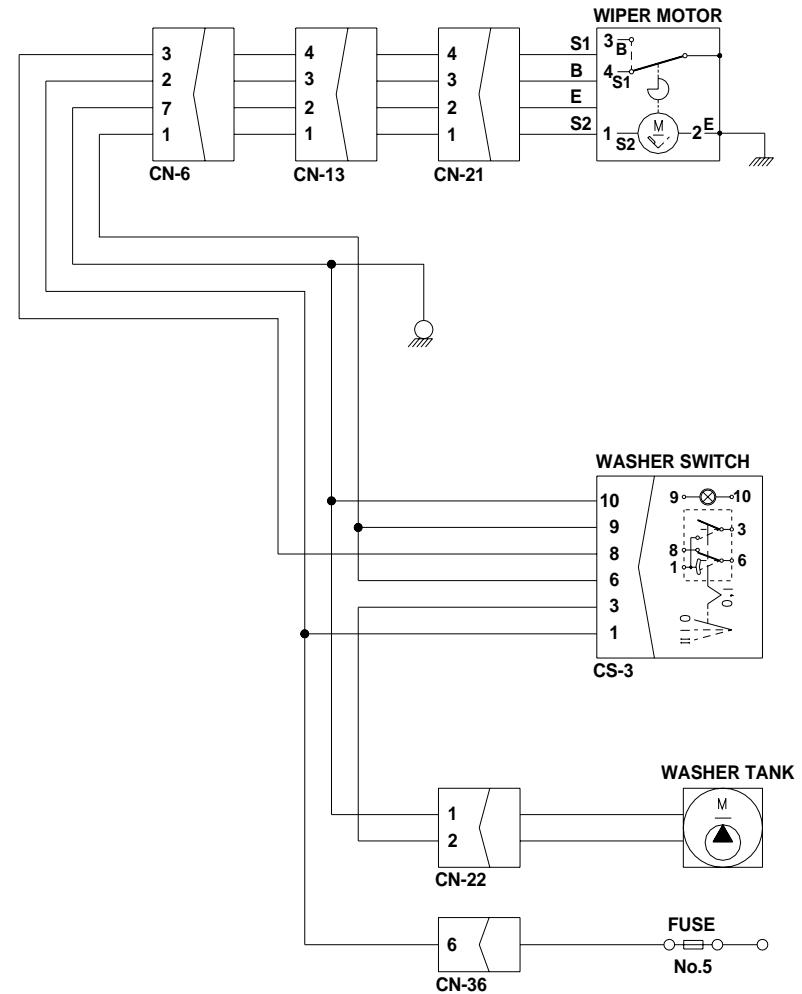
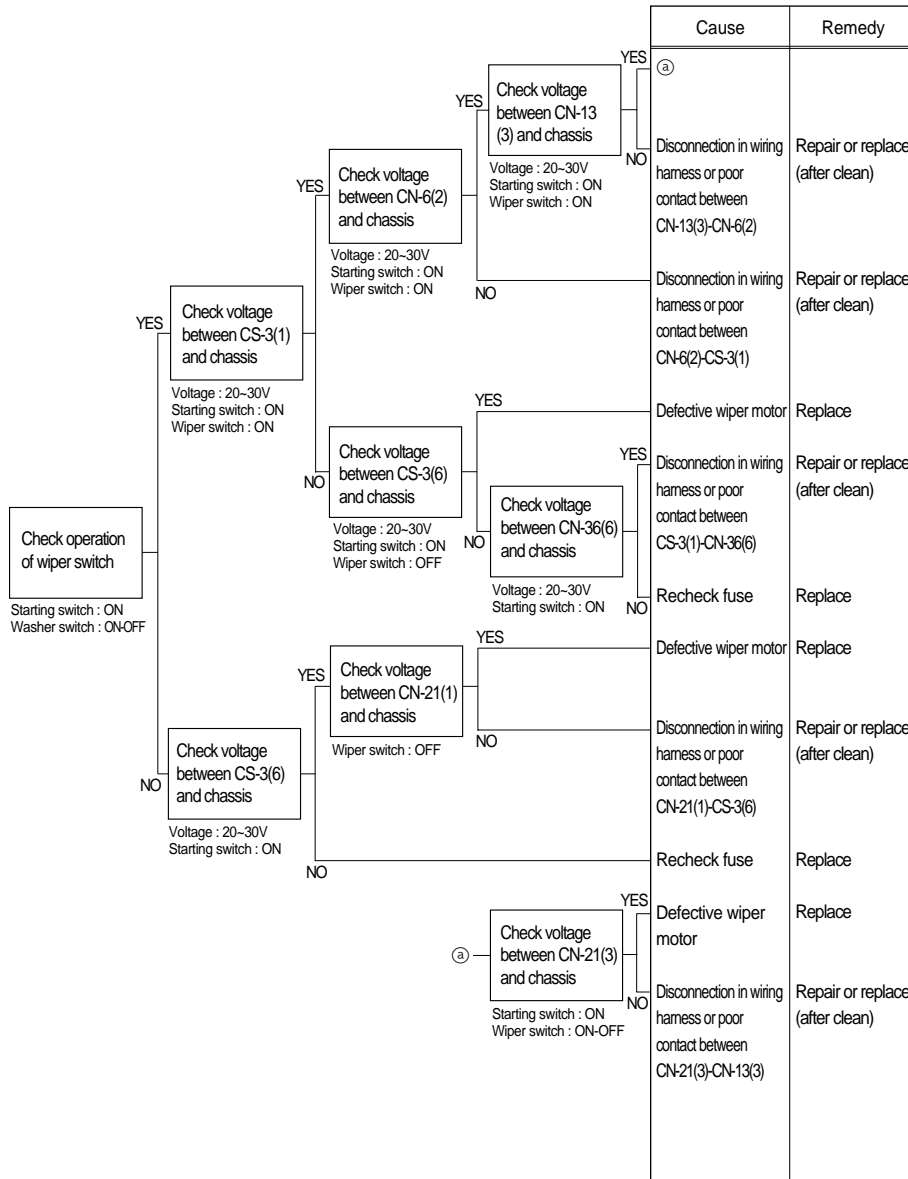
13. WHEN STARTING SWITCH ON DOES NOT OPERATE

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and the fusible links are not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



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

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.5 is not blown out.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



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

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

