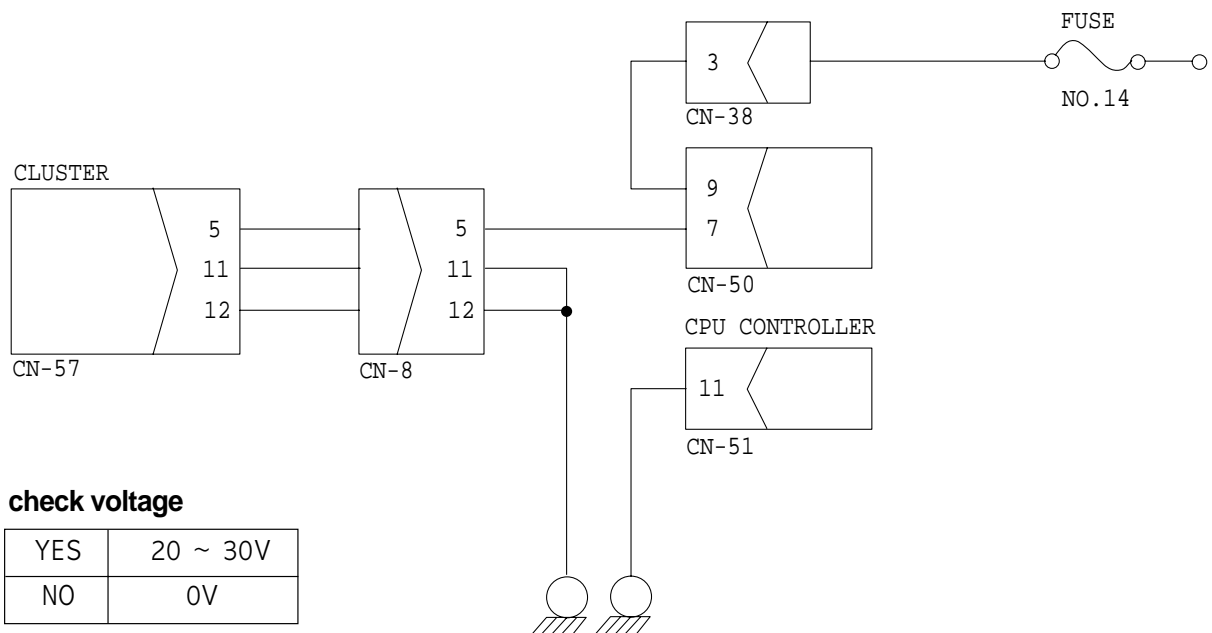
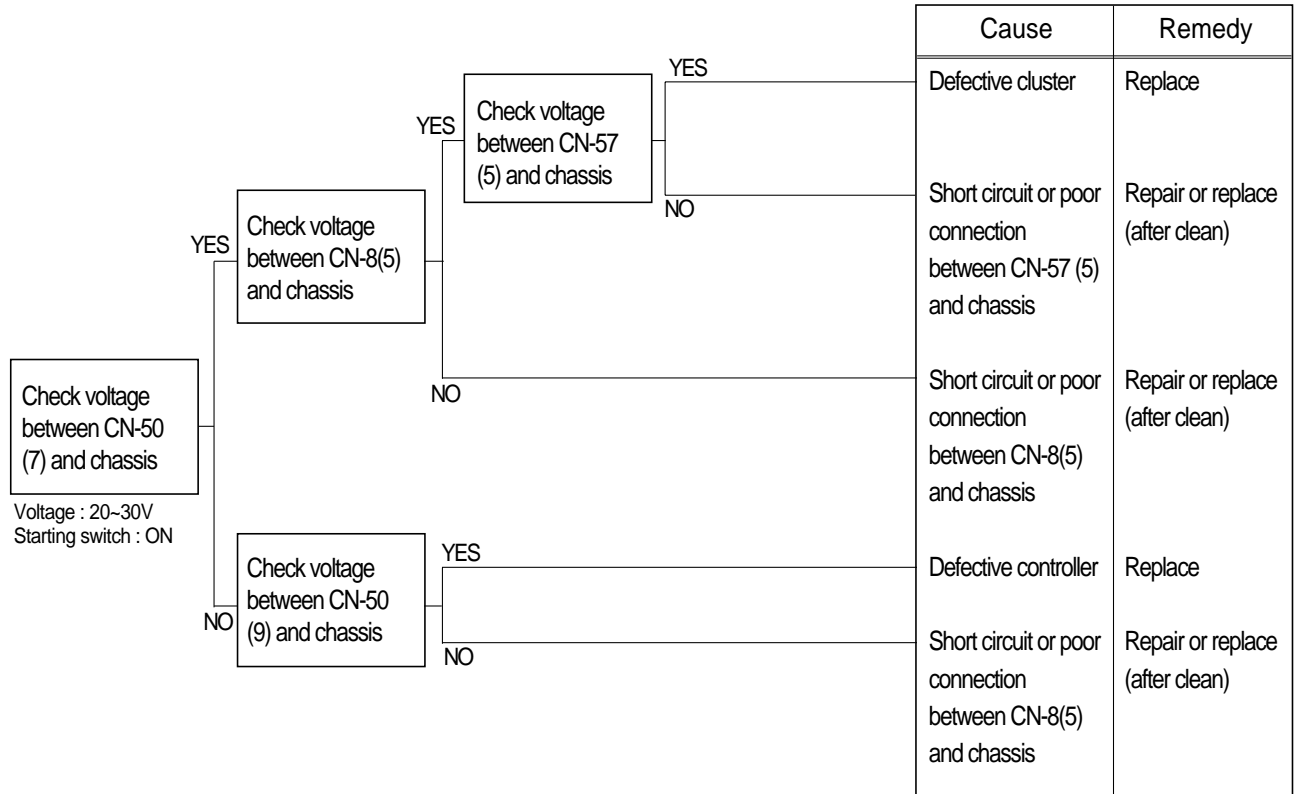


## GROUP 2 ELECTRICAL SYSTEM

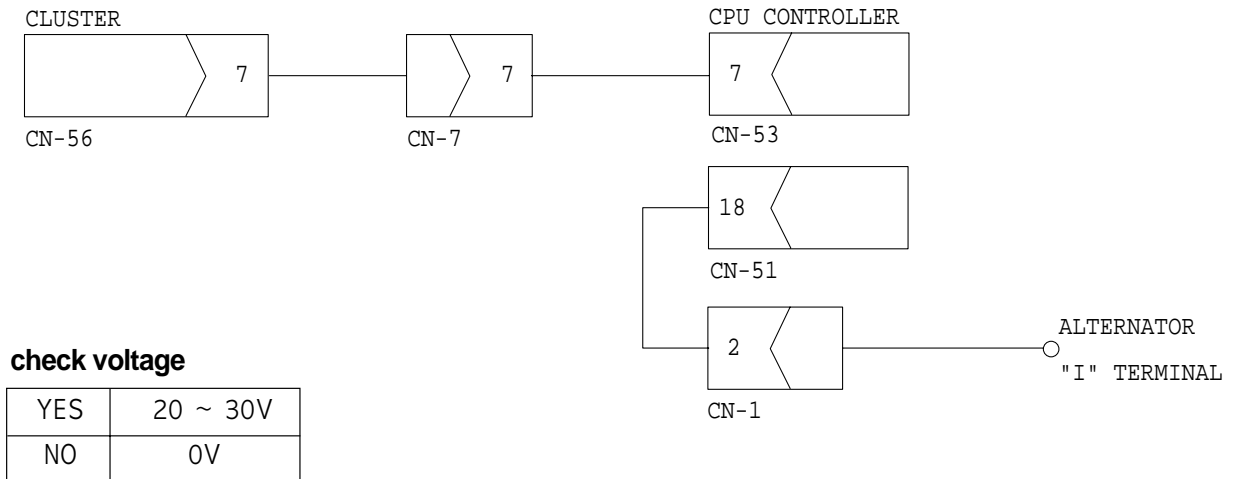
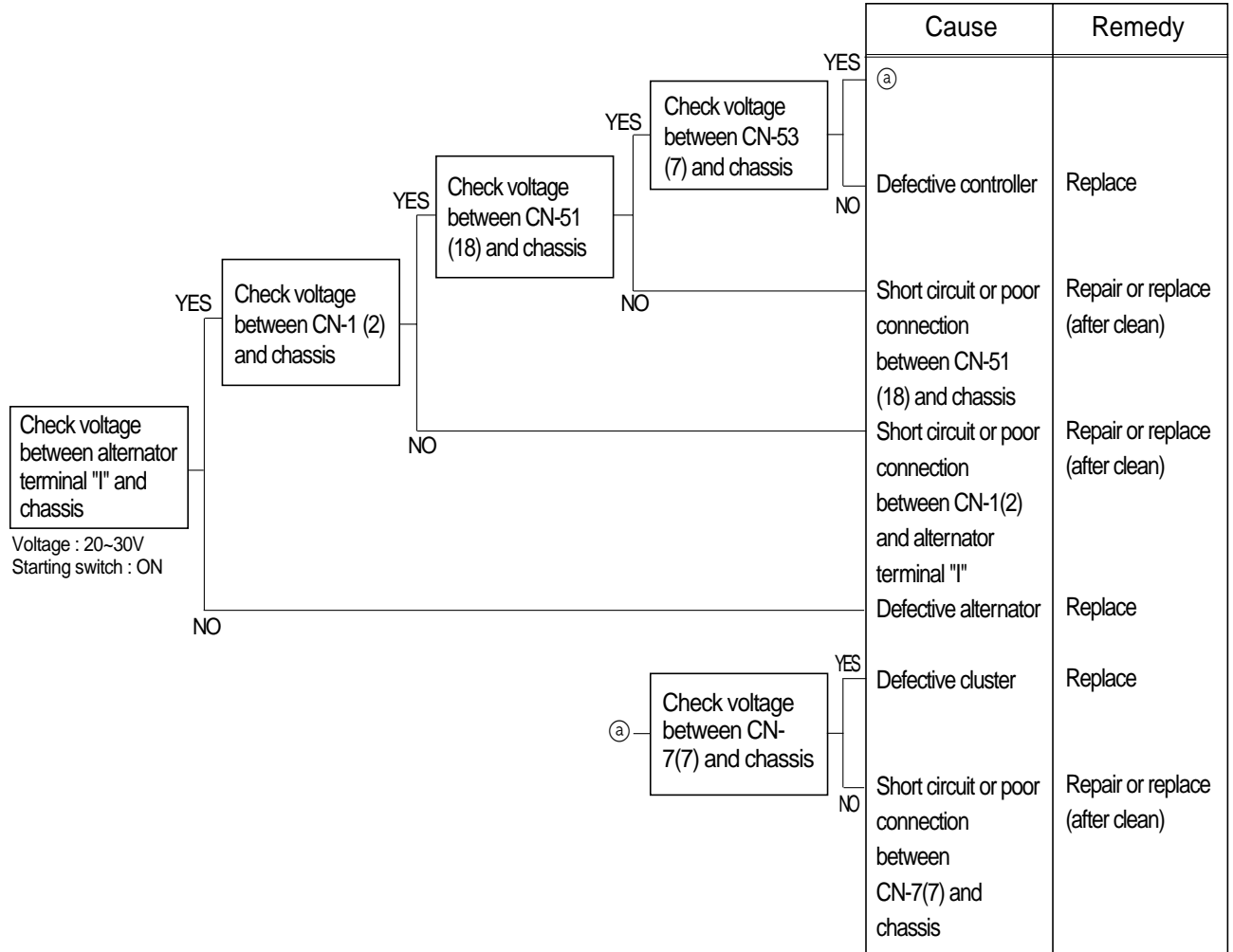
### 1. WHEN STARTING SWITCH IS TURNED ON, MONITOR PANEL DISPLAY DOES NOT APPEAR

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No. 14.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



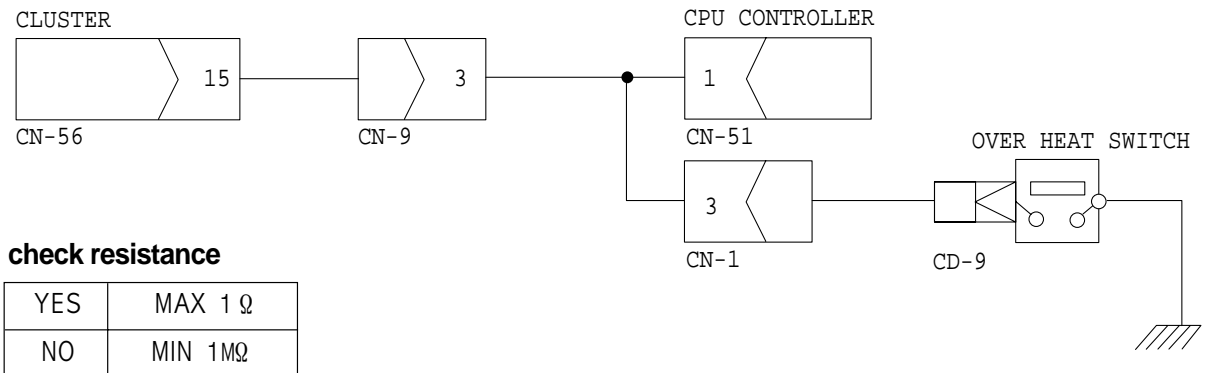
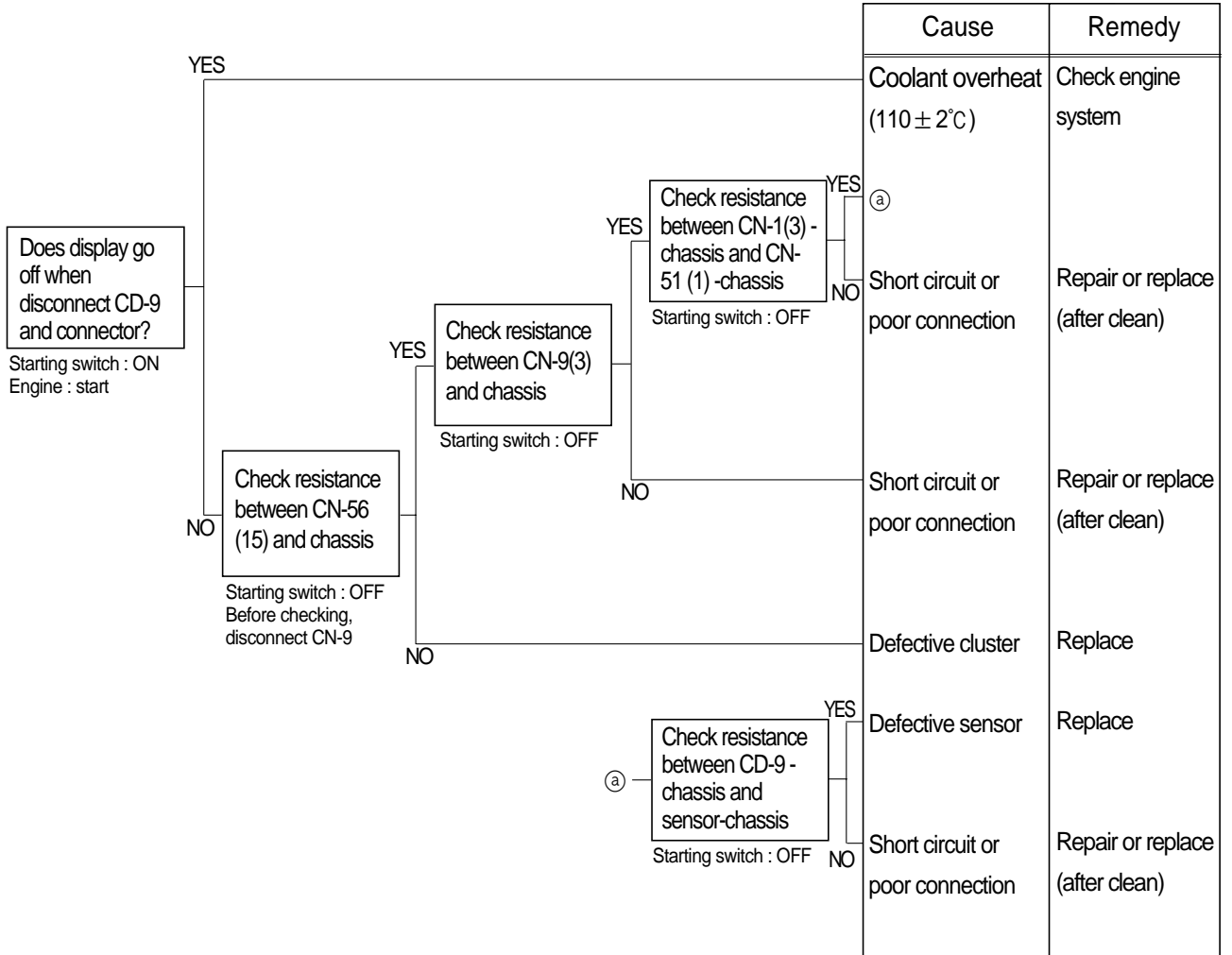
## 2. BATTERY CHARGING LAMP LIGHTS UP(Starting switch : ON)

- 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.



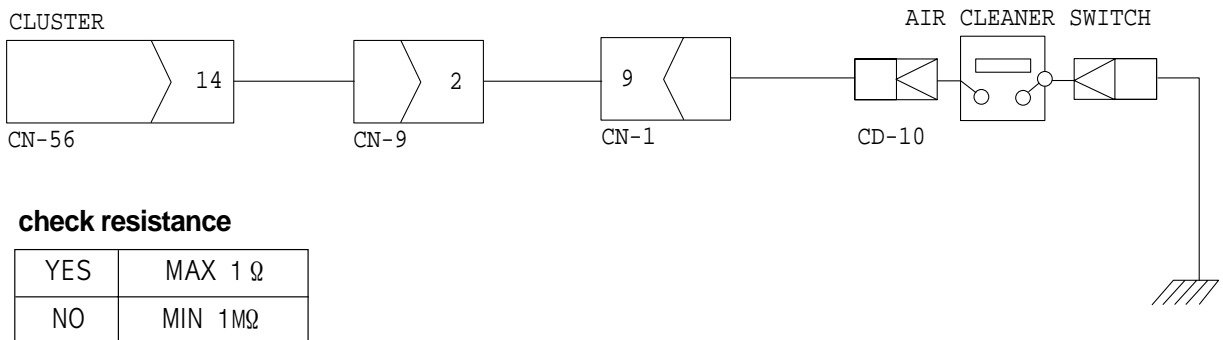
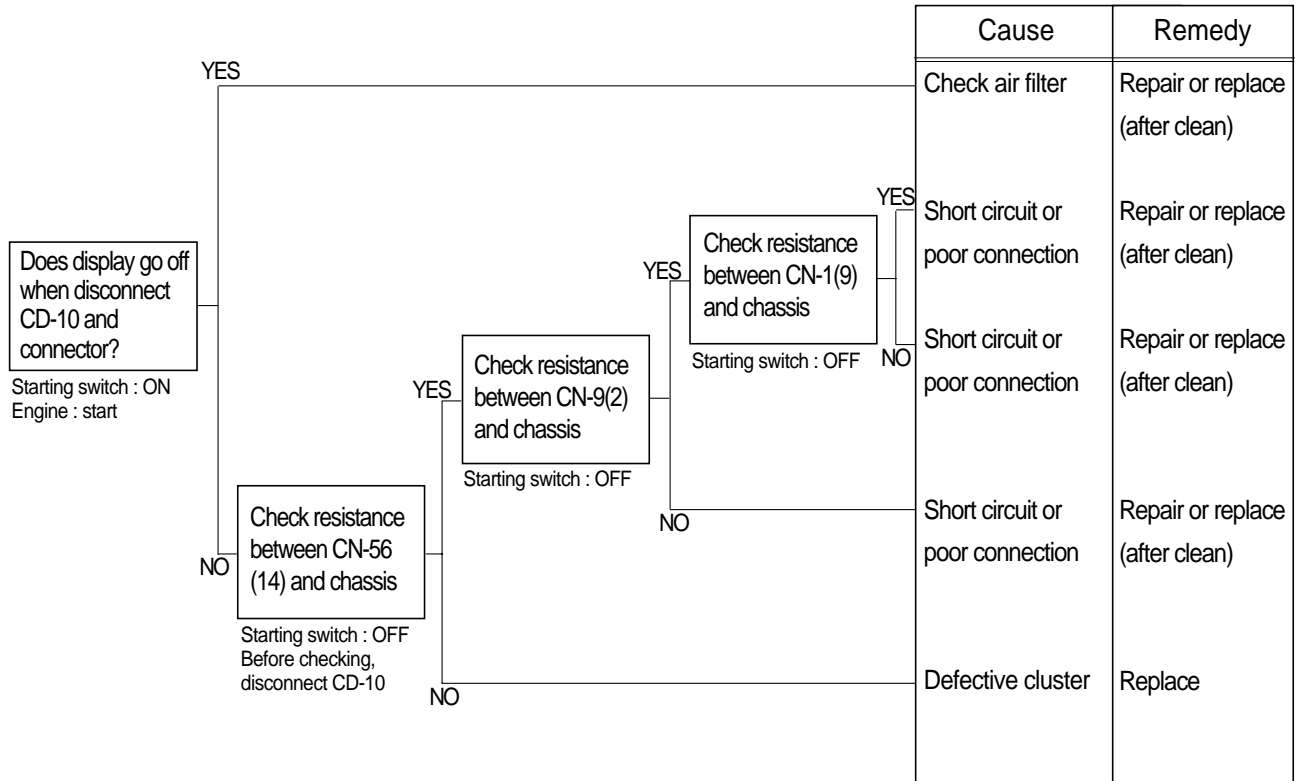
### 3. WHEN COOLANT OVERHEAT LAMP LIGHTS UP(Engine is started)

- 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.



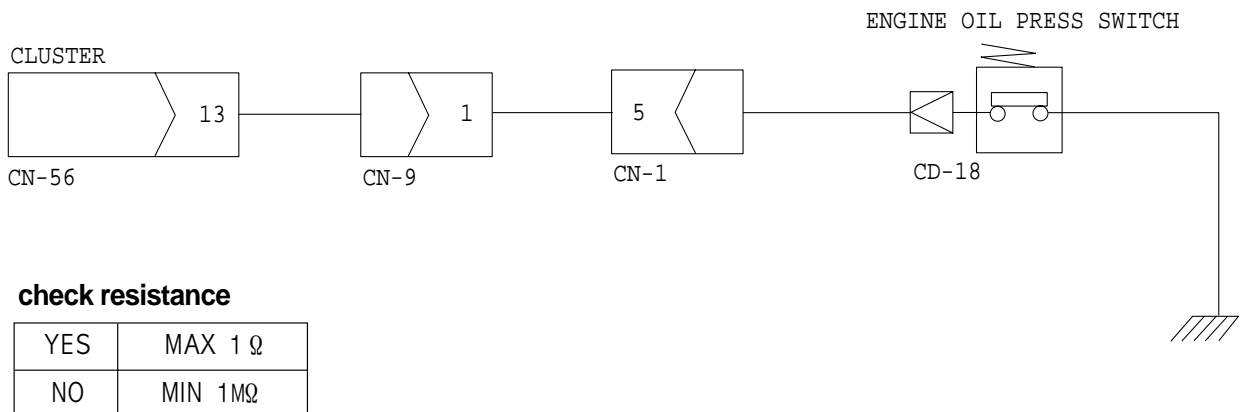
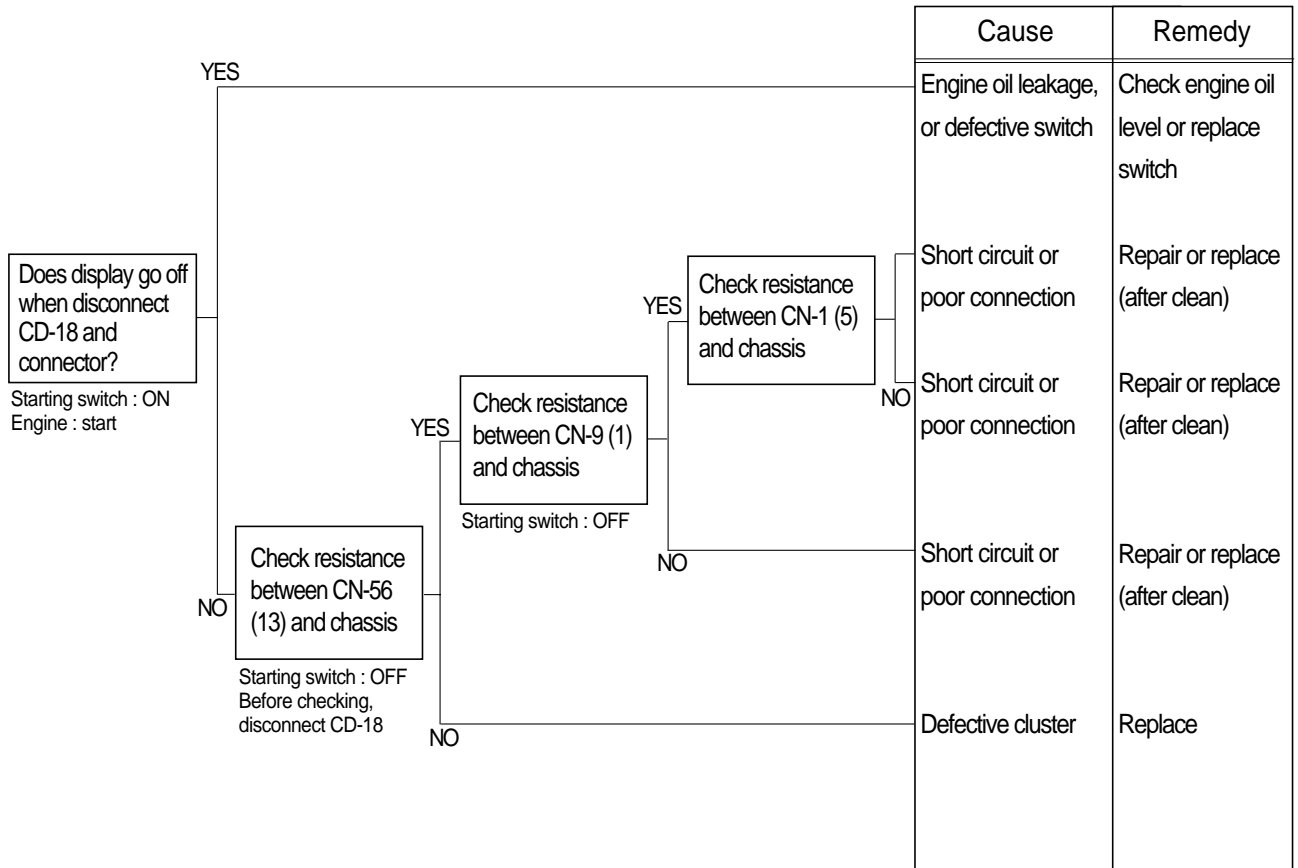
#### 4. WHEN AIR CLEANER LAMP LIGHTS UP(Engine is started)

- 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.



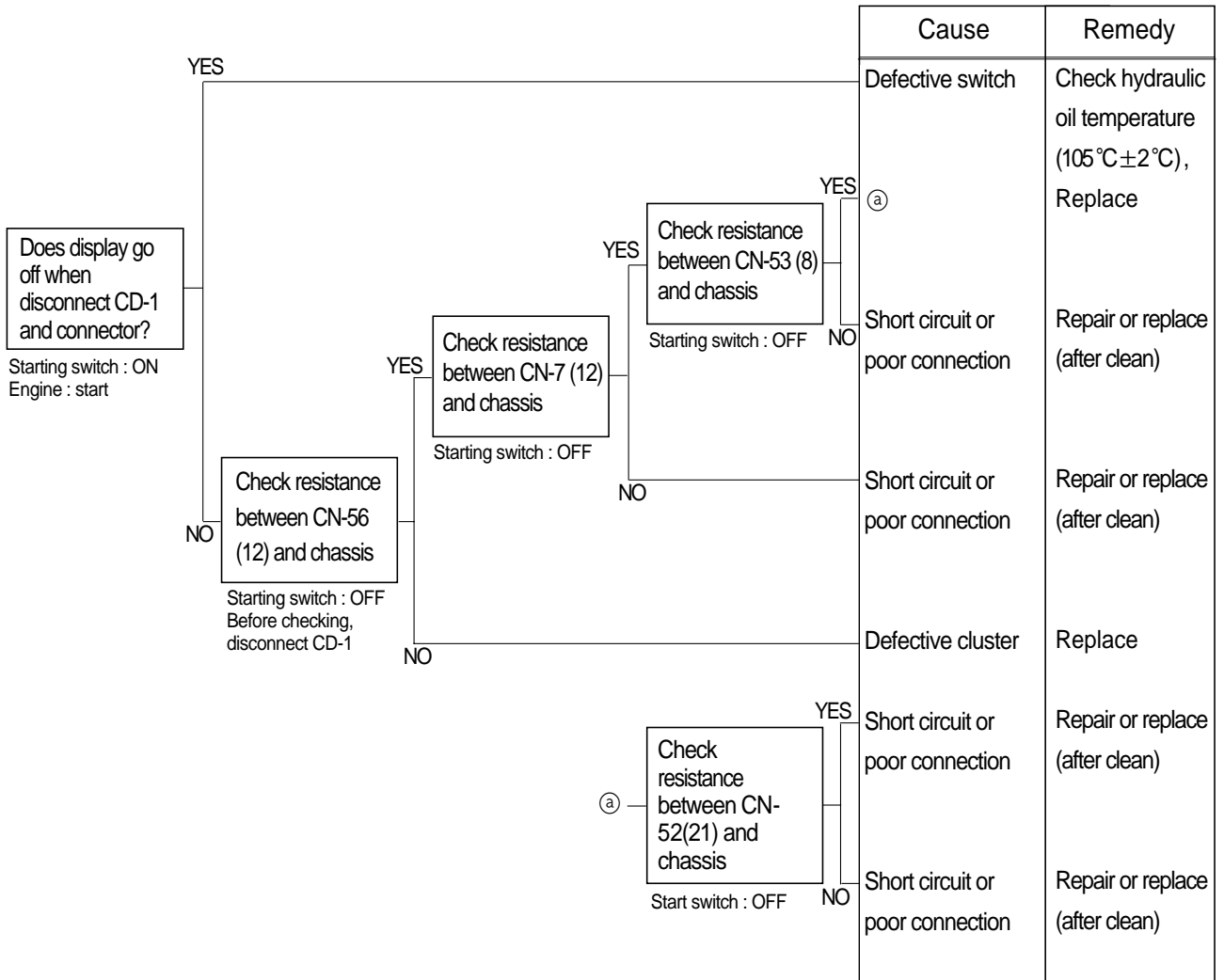
## 5. WHEN ENGINE OIL PRESSURE LAMP LIGHTS UP(Engine is started)

- 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.



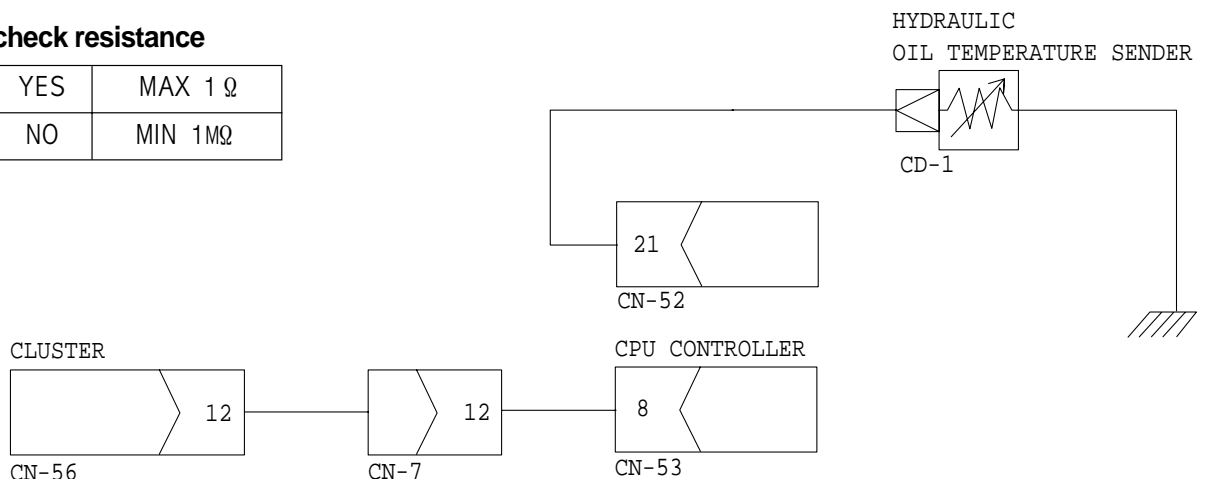
## 6. WHEN HYDRAULIC OIL TEMPERATURE LAMP LIGHTS UP(Engine is started)

- 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.



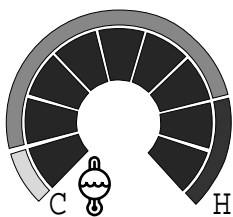
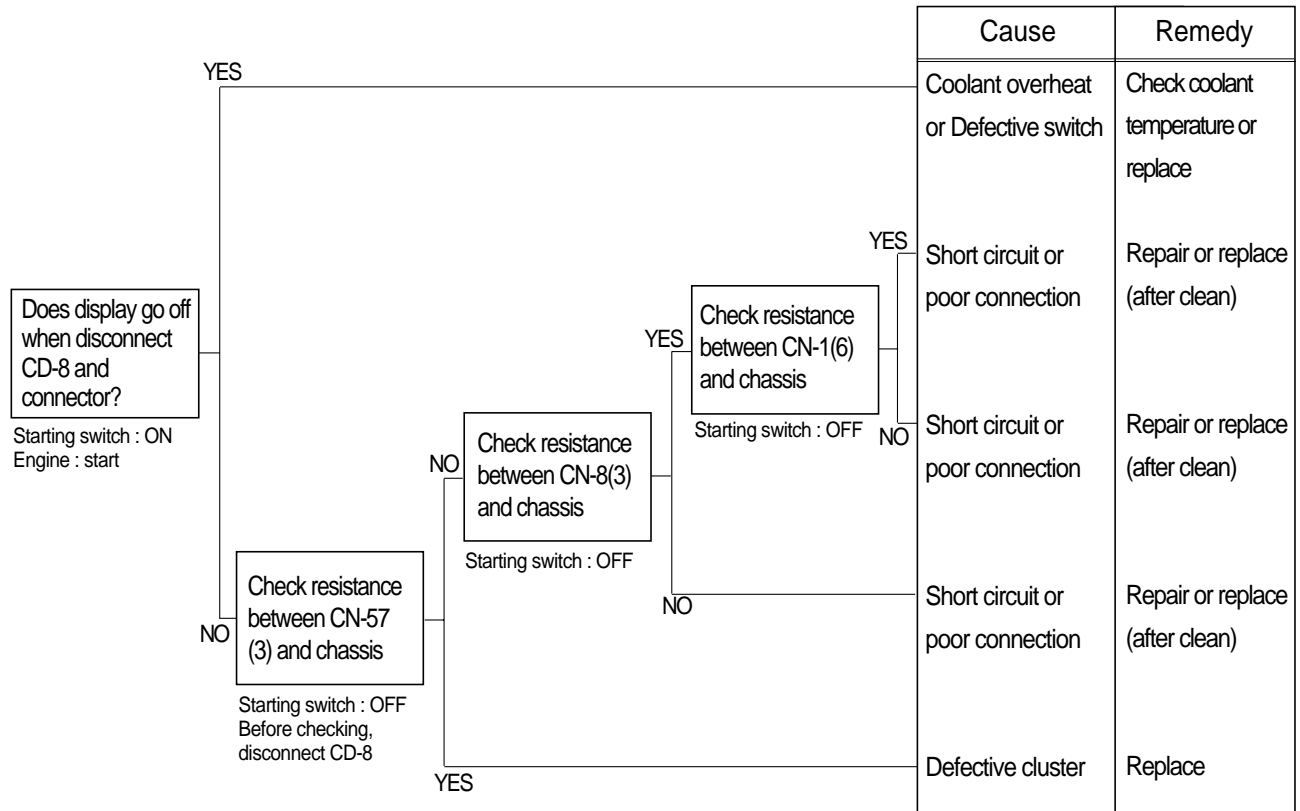
### check resistance

|     |         |
|-----|---------|
| YES | MAX 1 Ω |
| NO  | MIN 1MΩ |



## 7. 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, and short of fuse NO. 14.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.

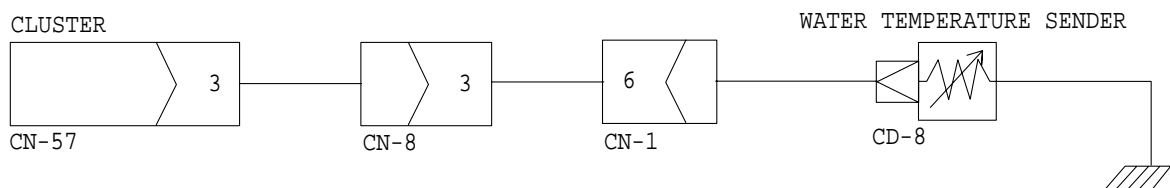


### Check Resistance

|     |         |
|-----|---------|
| YES | MAX 1 Ω |
| NO  | MIN 1MΩ |

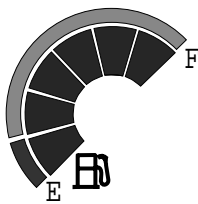
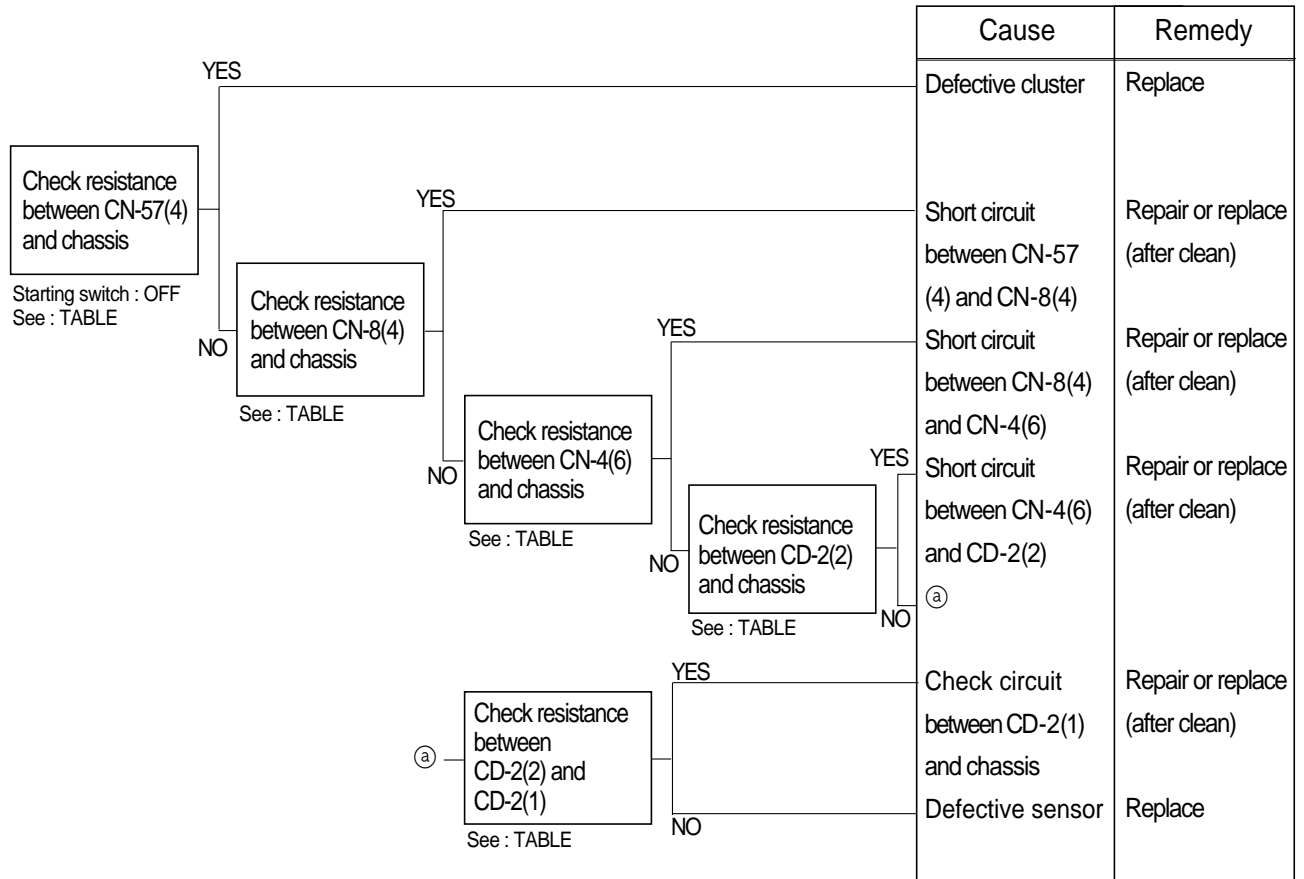
### Check Table

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



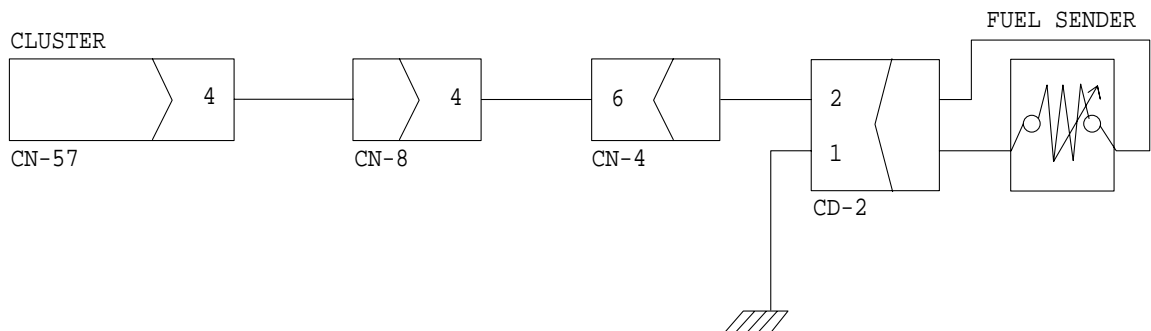
## 8. WHEN FUEL GAUGE DOES NOT OPERATE(Check warning lamp ON/OFF)

- 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

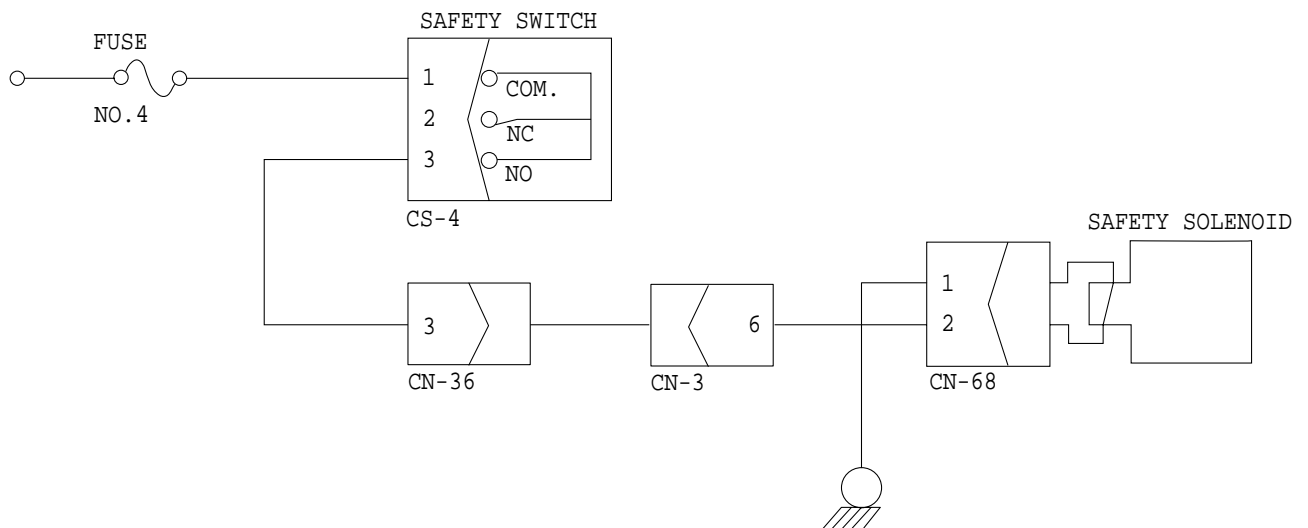
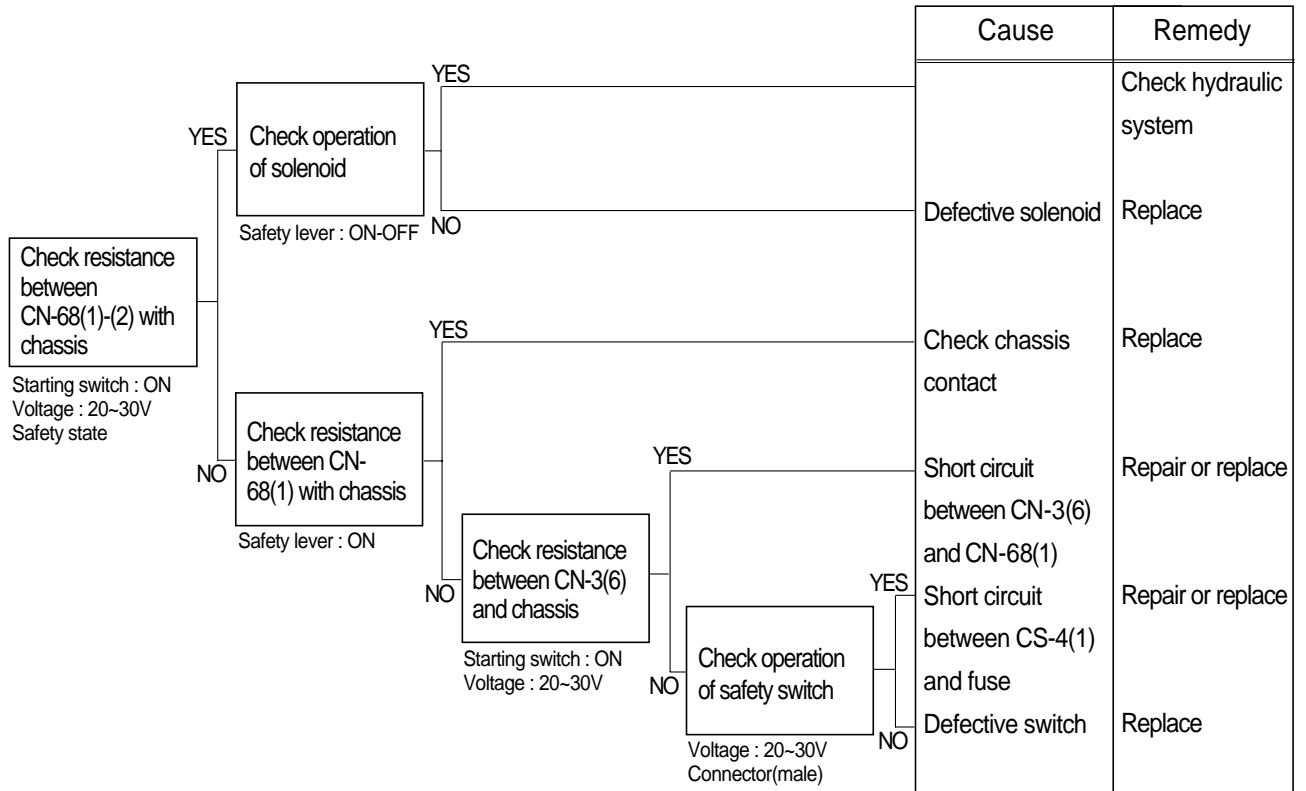
| Item \ Level                | Empty   | (1/2)  | Full    |
|-----------------------------|---------|--------|---------|
| Unit Resistance( $\Omega$ ) | 110     | (32.5) | 3       |
| Tolerance                   | $\pm 3$ |        | $\pm 2$ |





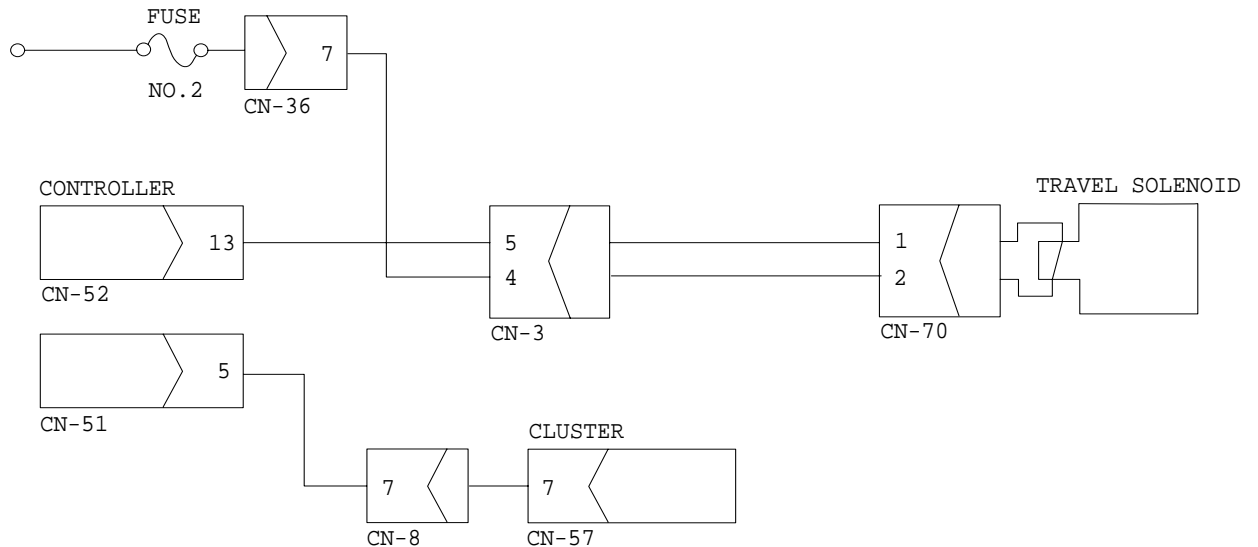
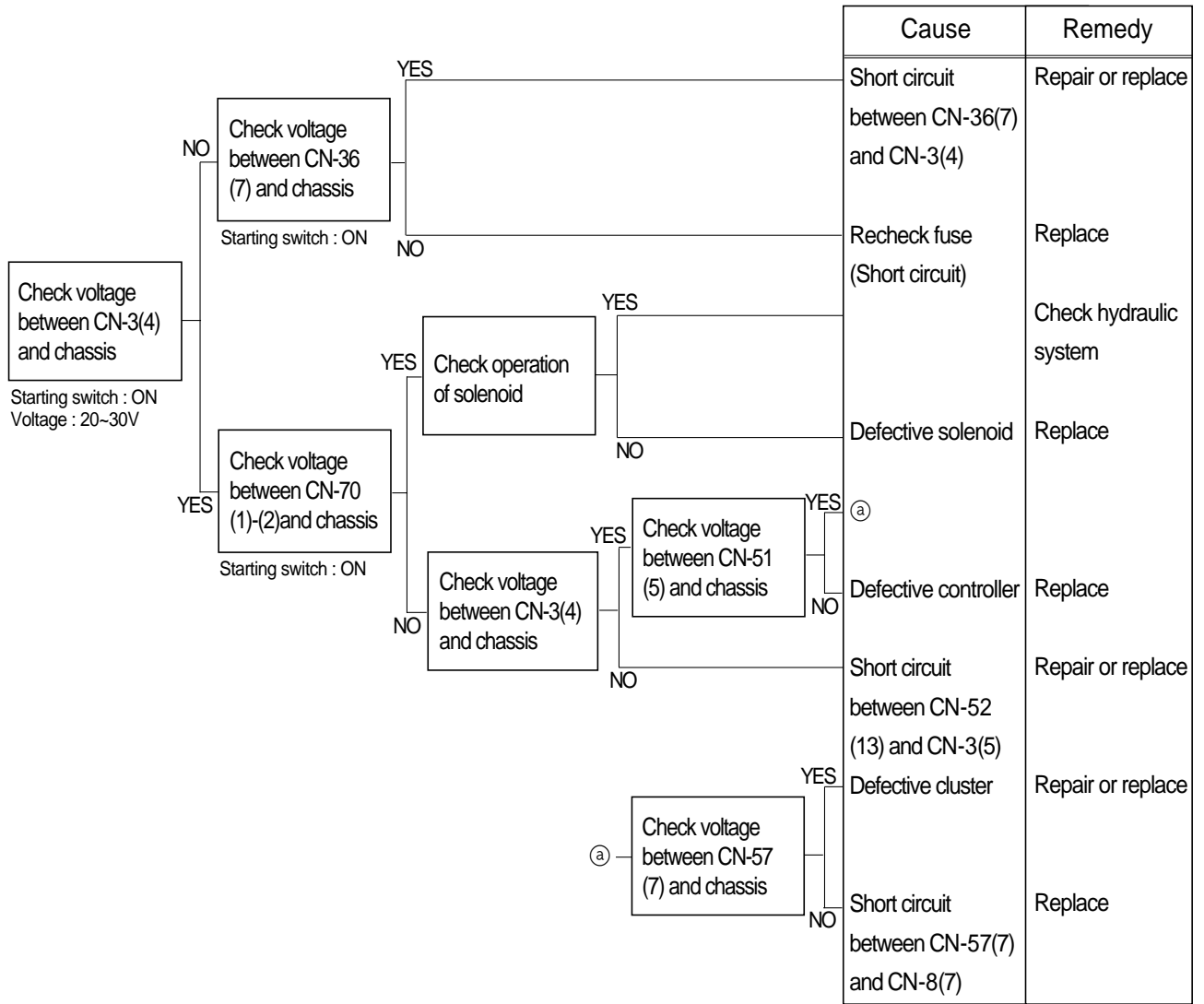
## 9. WHEN SAFETY SOLENOID DOES NOT OPERATE

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No. 4.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



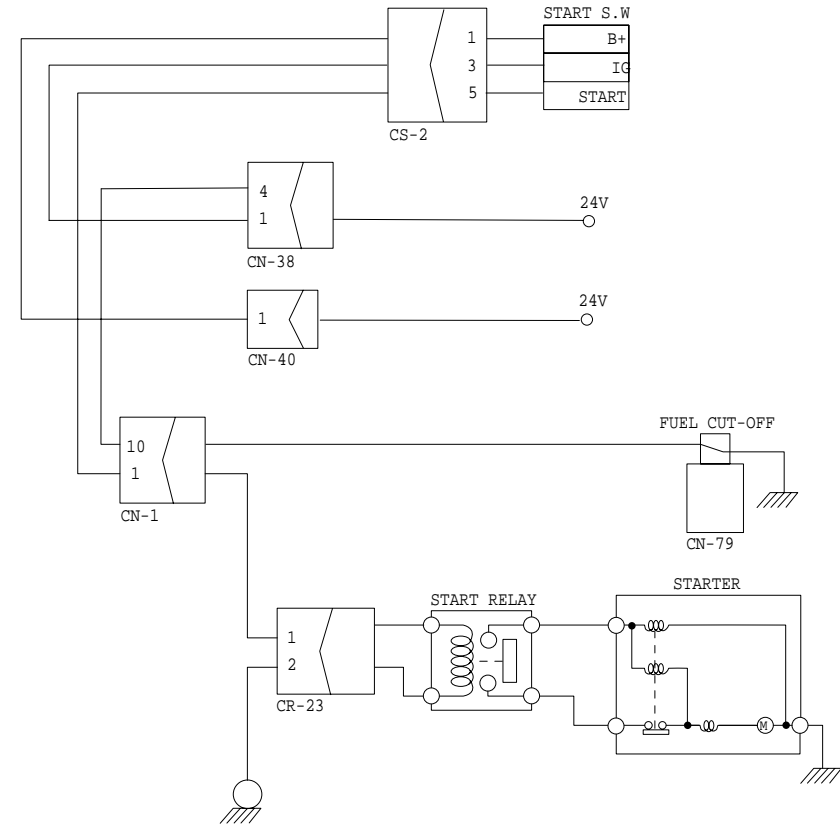
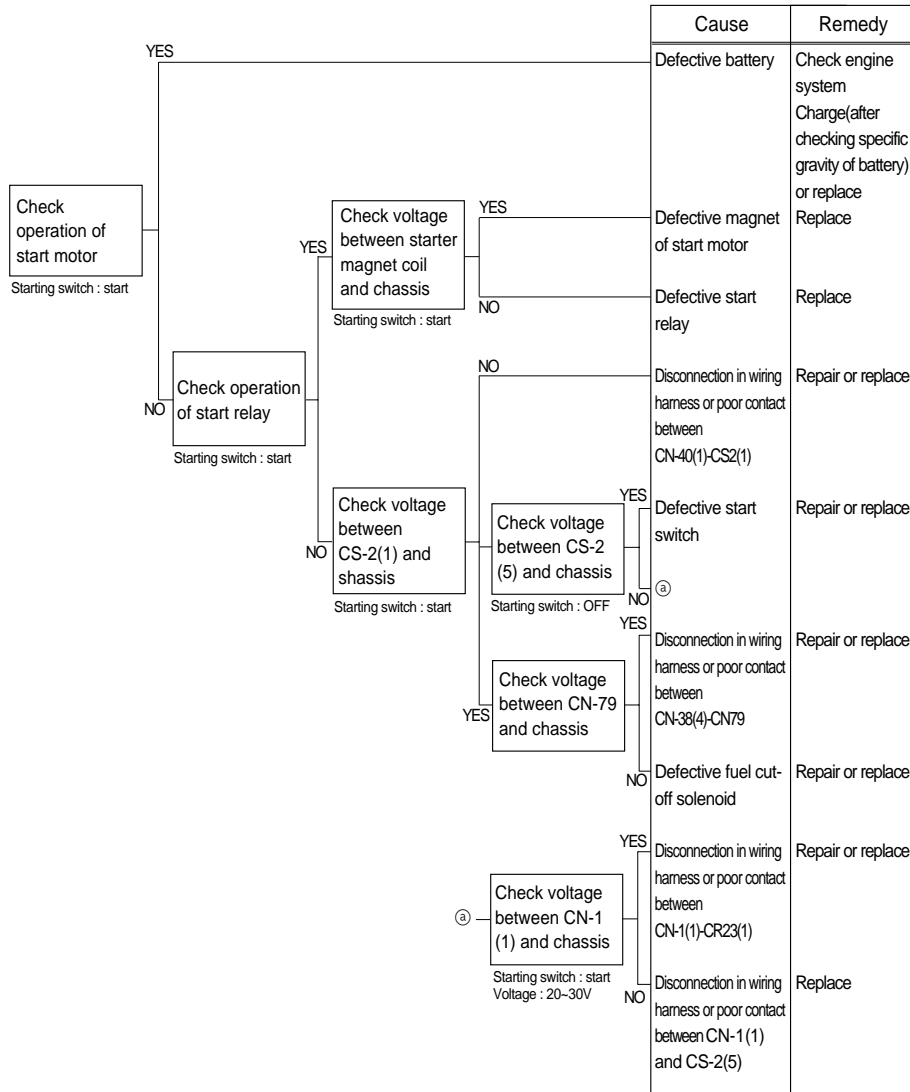
## 10. WHEN TRAVEL SPEED 1,2 DOES NOT OPERATE

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No. 2.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



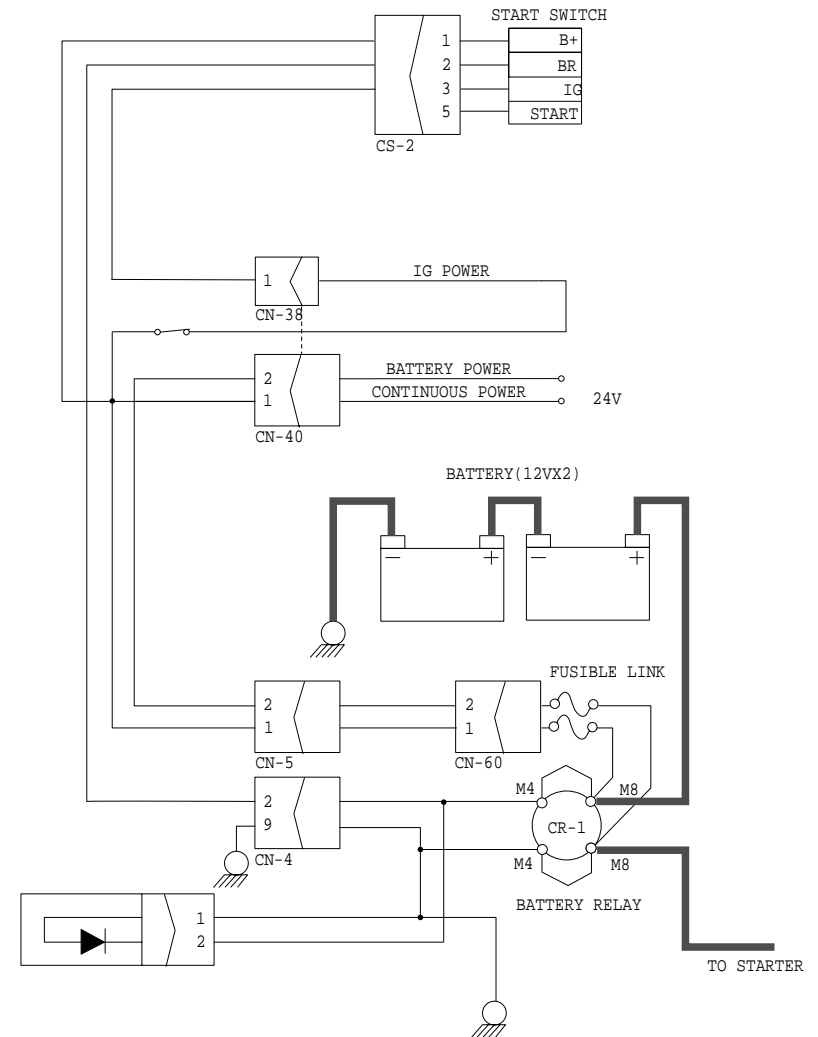
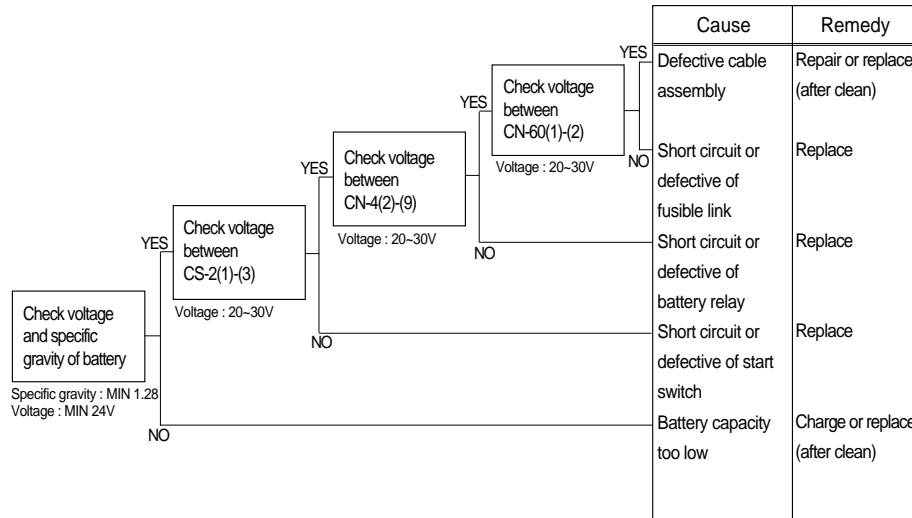
## 11. WHEN ENGINE DOES NOT START

- Check supply of the power at engine 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.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



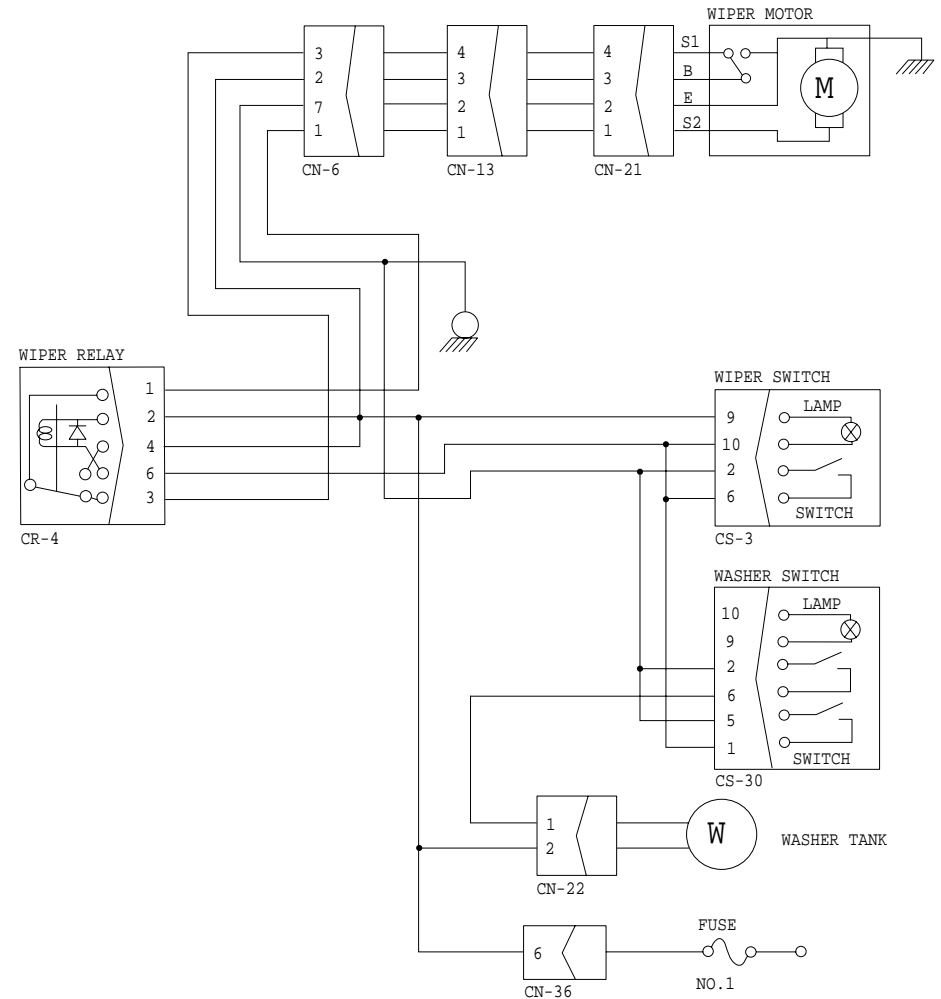
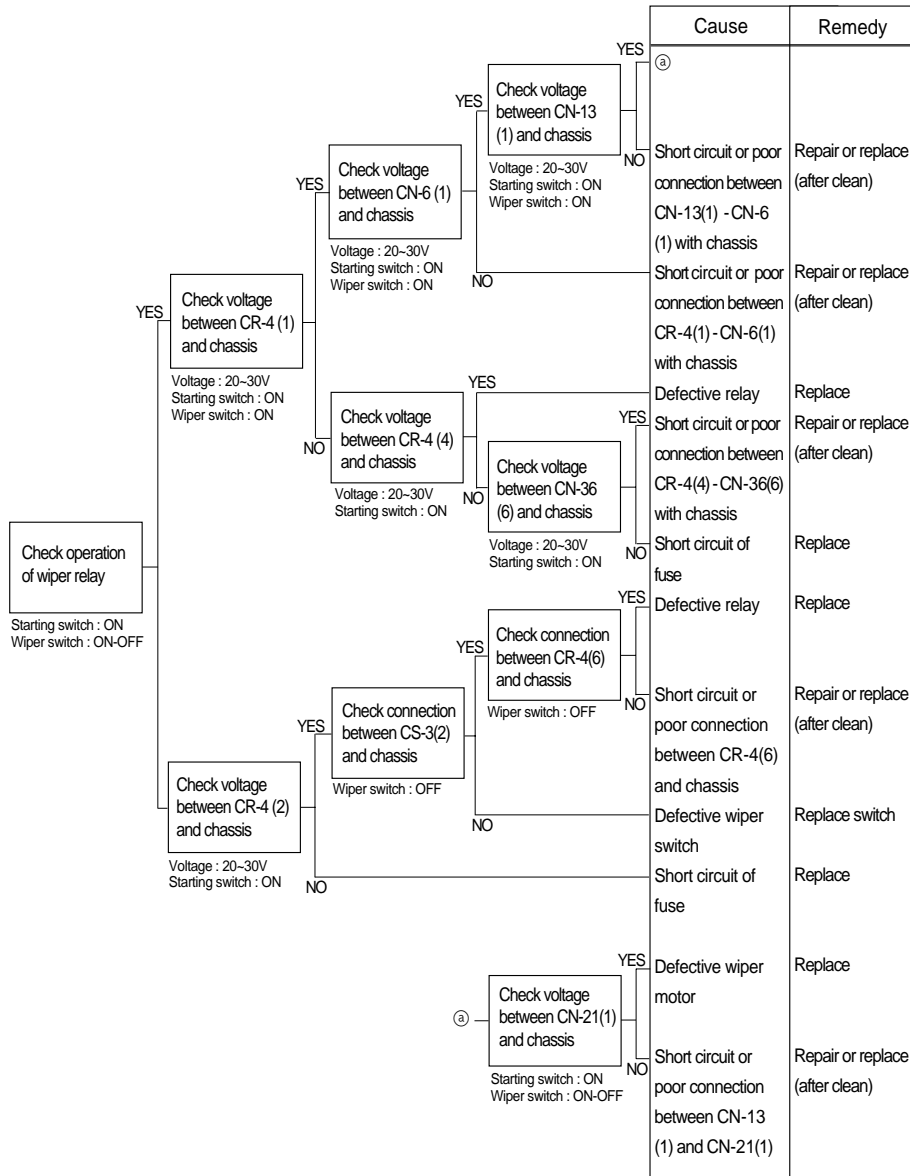
## 12. WHEN STARTING SWITCH "ON" DOES NOT OPERATE

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



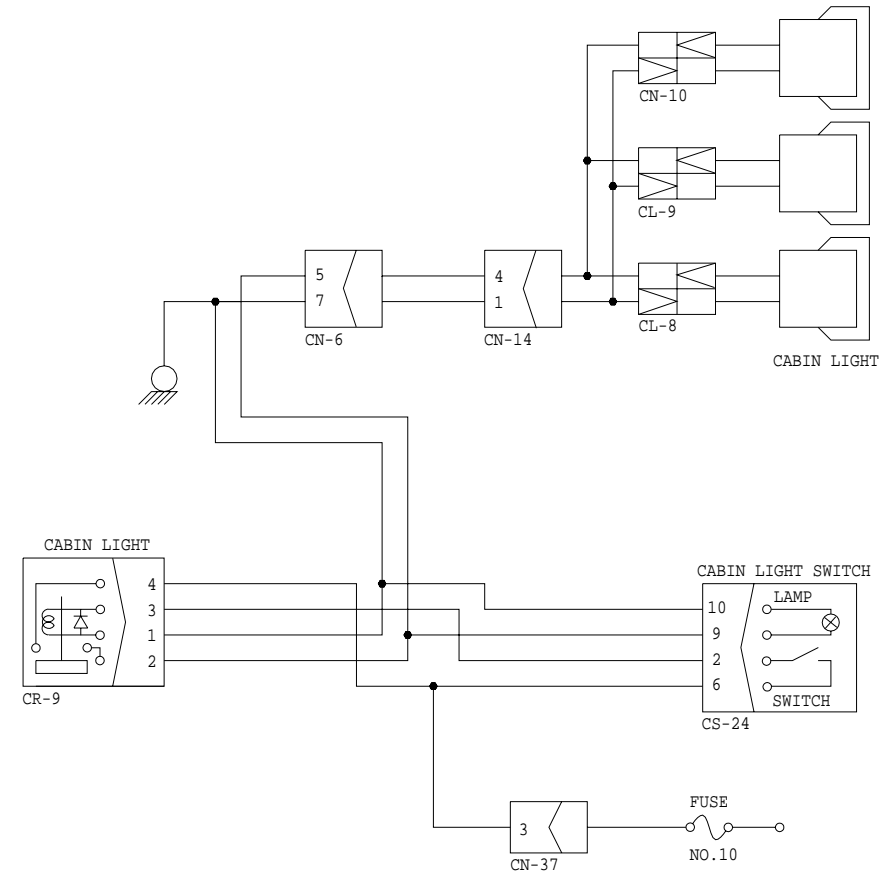
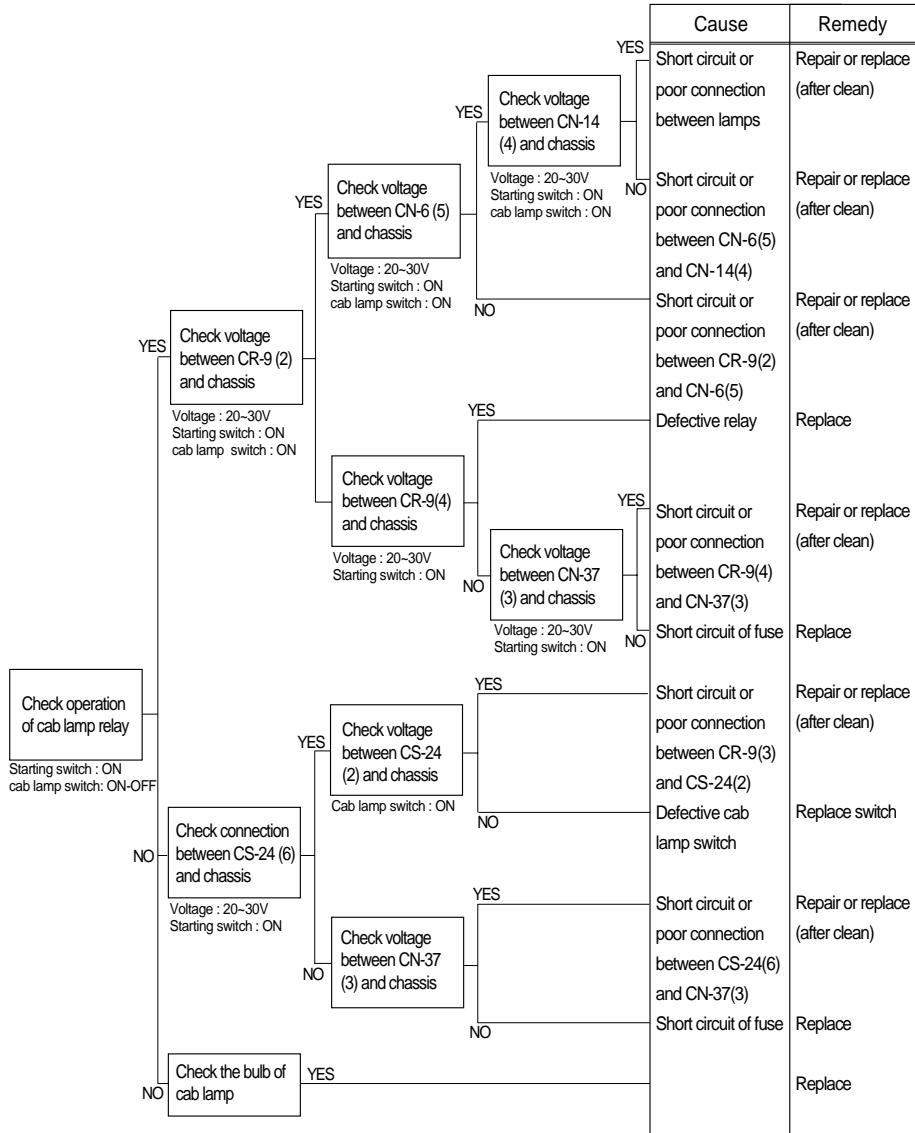
### 13. WHEN STARTING SWITCH IS TURNED ON, WIPER MOTOR DOES NOT OPERATE

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse NO.14.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



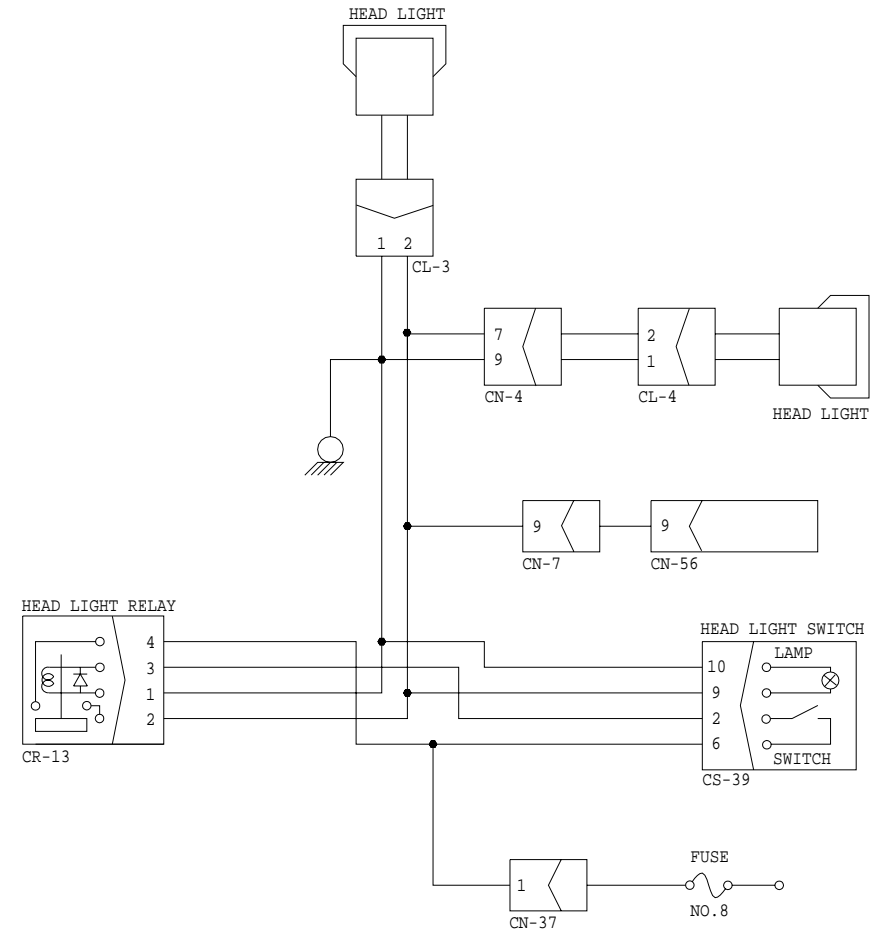
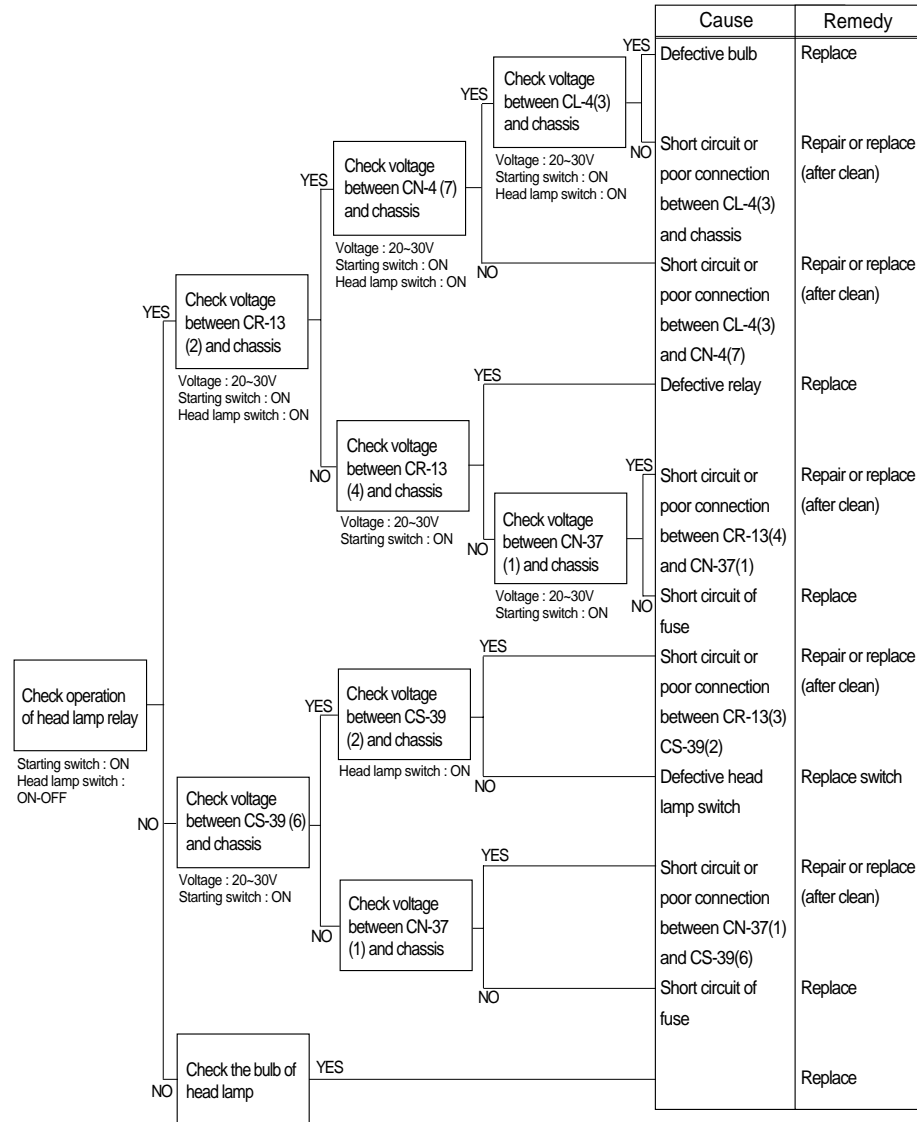
## 14. WHEN STARTING SWITCH IS TURNED ON, CAB LAMP DOES NOT LIGHT UP

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No.10
- After checking, connect the disconnected connectors again immediately unless otherwise specified.



### 15. WHEN STARTING SWITCH IS TURNED ON, HEAD 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 short of fuse No.8
- 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 short of fuse No.9.
- After checking, connect the disconnected connectors again immediately unless otherwise specified.

|  | Cause  | Remedy  |
|--|--|---|
| <p>Check operation of work lamp relay<br/>Starting switch : ON<br/>Work lamp switch : ON-OFF</p> <p>YES</p> <p>Check voltage between CR-3 (2) and chassis<br/>Voltage : 20-30V<br/>Starting switch : ON<br/>Work lamp switch : ON</p> <p>YES</p> <p>Check voltage between CN-4(4) and chassis<br/>Voltage : 20-30V<br/>Starting switch : ON<br/>Work lamp switch : ON</p> <p>YES</p> <p>Check voltage between CN-10 (2) and chassis<br/>Voltage : 20-30V<br/>Starting switch : ON<br/>Work lamp switch : ON</p> <p>NO</p> <p>Check voltage between CR-3(4) and chassis<br/>Voltage : 20-30V<br/>Starting switch : ON</p> <p>NO</p> <p>Check voltage between CN-37 (2) and chassis<br/>Voltage : 20-30V<br/>Starting switch : ON</p> <p>NO</p> <p>Check voltage between CS-36 (6) and chassis<br/>Voltage : 20-30V<br/>Starting switch : ON</p> <p>NO</p> <p>Check voltage between CN-37 (2) and chassis</p> <p>NO</p> <p>Check the bulb of work lamp</p> | <p>Short circuit or poor connection between CL-5(3) and CL-6(3)</p> <p>Short circuit or poor connection between CN-4(4) and CN-10(2)</p> <p>Short circuit or poor connection between CR-3(2) and CN-4(4)</p> <p>Defective relay</p> <p>Short circuit or poor connection between CR-3(4) and CN-37(2)</p> <p>Short circuit of fuse</p> <p>Short circuit or poor connection between CR-3(3) and CS-36(2)</p> <p>Defective work lamp switch</p> <p>Short circuit or poor connection between CS-36 (6) and CN-37(2)</p> <p>Short circuit of fuse</p> | <p>Repair or replace (after clean)</p> <p>Repair or replace (after clean)</p> <p>Repair or replace (after clean)</p> <p>Replace</p> <p>Repair or replace (after clean)</p> <p>Replace</p> <p>Repair or replace (after clean)</p> <p>Replace switch</p> <p>Repair or replace (after clean)</p> <p>Replace</p> <p>Replace</p> |

