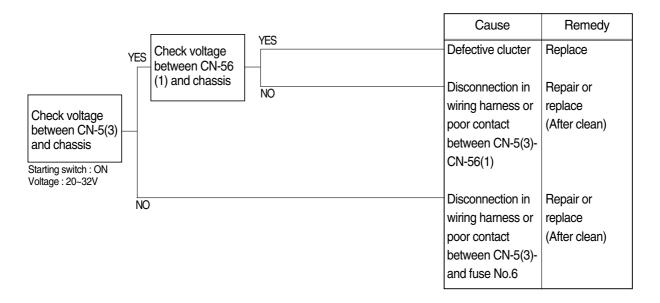
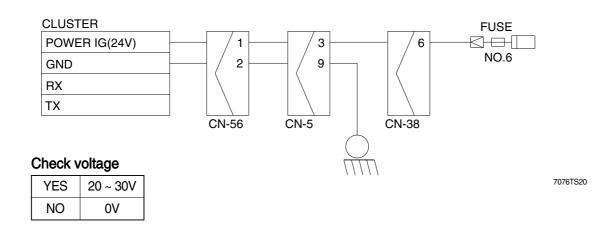
### **GROUP 3 ELECTRICAL SYSTEM**

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

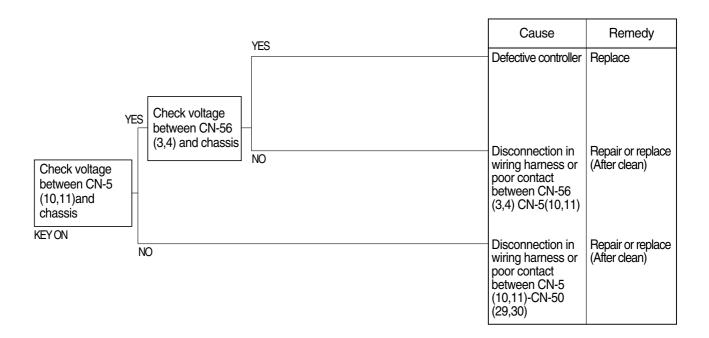
- · Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No.6.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.

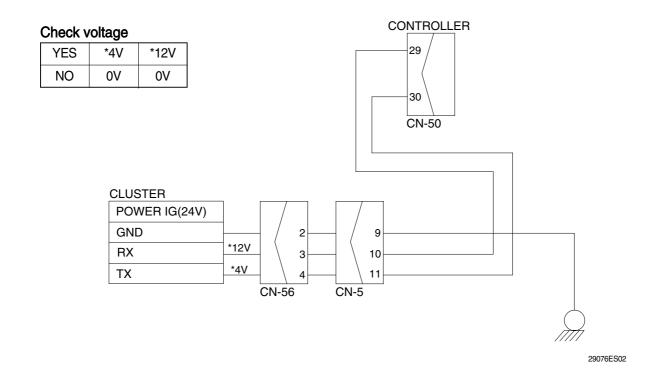




### 2. COMMUNICATION ERROR "Co: Err" FLASHES ON THE CLUSTER

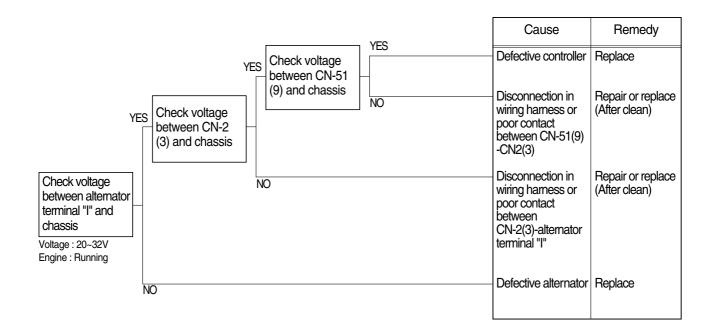
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.





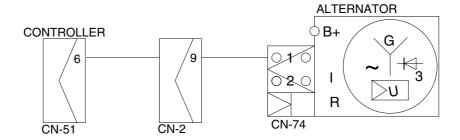
### 3. F BATTERY CHARGING WARNING LAMP LIGHTS UP(Starting switch : ON)

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



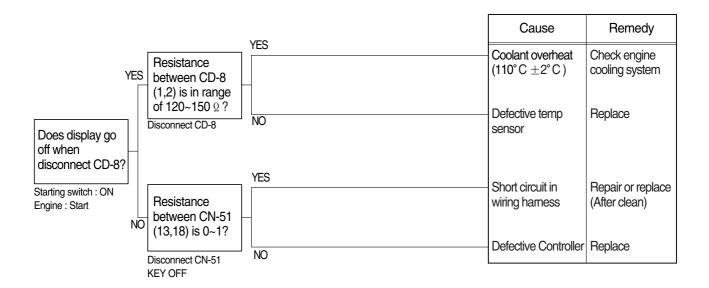
### Check voltage

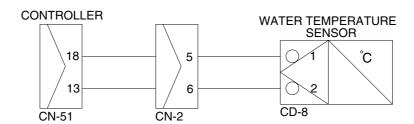
YES	20 ~ 32V
NO	0V



### 4. WHEN COOLANT OVERHEAT WARNING 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, insert the disconnected connectors again immediately unless otherwise specified.

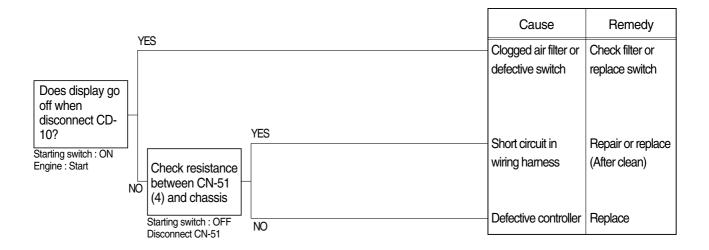






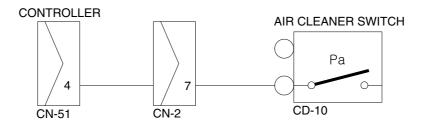
### WHEN AIR CLEANER WARNING LAMP LIGHTS UP(Engine is started)

- · 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, insert the disconnected connectors again immediately unless otherwise specified.



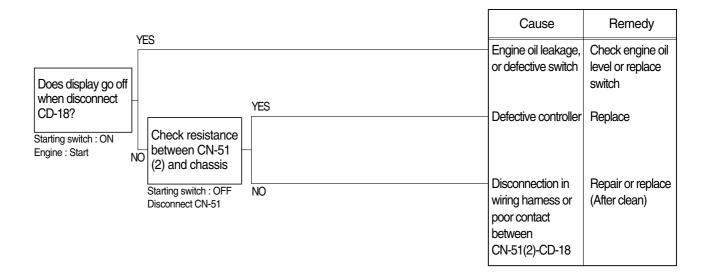
### Check resistance

YES	MAX 1Ω
NO	MIN 1M Ω



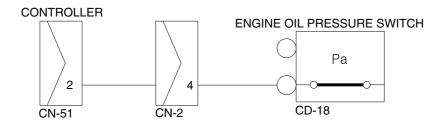
### 6. →(•) ♦ WHEN ENGINE OIL PRESSURE WARNING LAMP LIGHTS UP(Engine is started)

- · 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, insert the disconnected connectors again immediately unless otherwise specified.



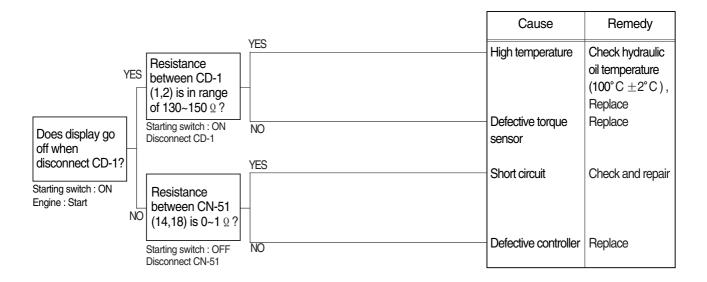
### Check resistance

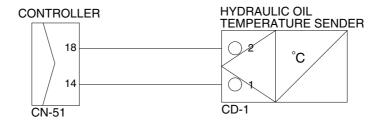
YES	MAX 1Ω
NO	MIN 1MΩ



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

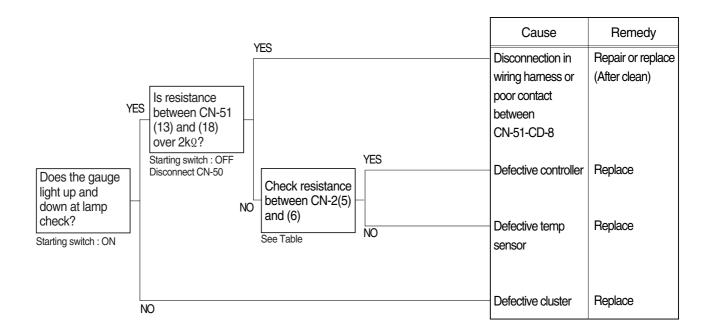
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.

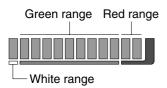




### 8. WHEN COOLANT TEMPERATURE GAUGE DOES NOT OPERATE

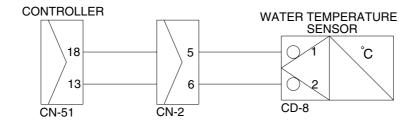
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.





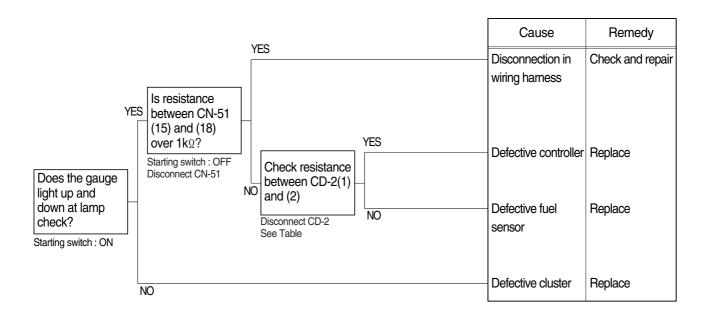
### **Check Table**

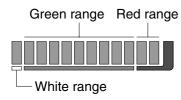
CHOOK Tubio					
Item	Temperature	White range (~29°C)	Green range (30~105°C)	Red range (105°C ~)	
Unit Res	istance( $\Omega$ )	1646~	1645~158	~139	
Tolera	ance(%)	±20	±20	±20	



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

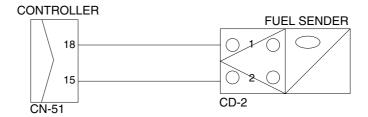
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.





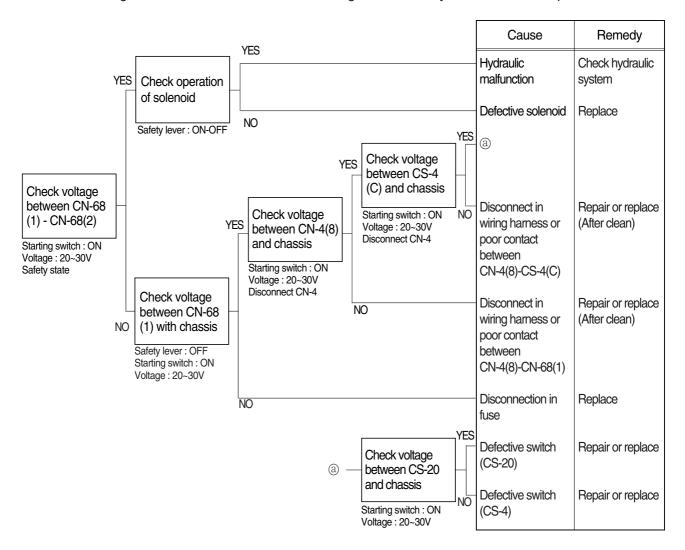
### **Check Table**

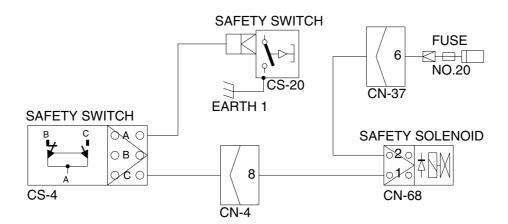
Level	White range	Green range	Red range
Unit Resistance( Ω )	700~601	600~101	~100
Tolerance(%)	±5	±5	±5



### 10. WHEN SAFETY SOLENOID DOES NOT OPERATE

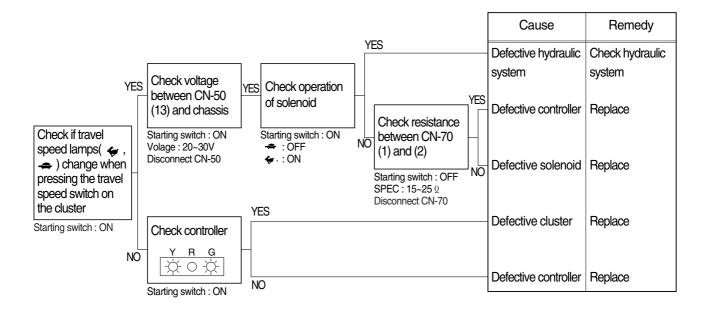
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No.20.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.

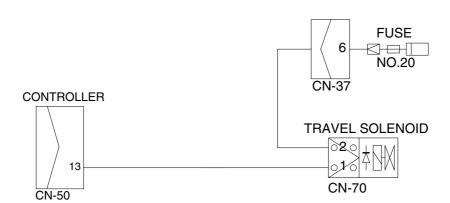




### 11. WHEN TRAVEL SPEED 1, 2 DOES NOT OPERATE

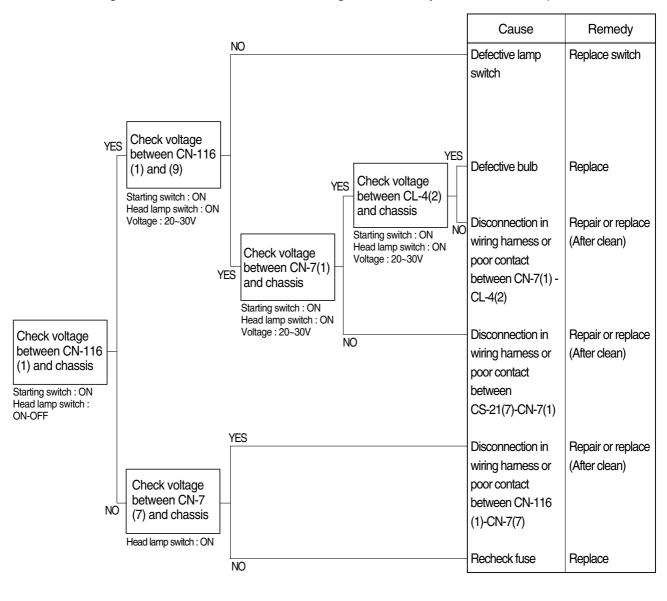
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No.22 .
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.

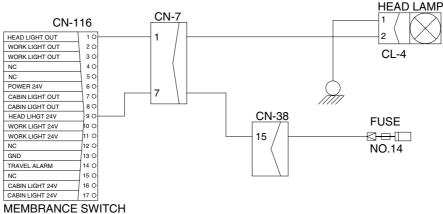




### 12. WHEN STARTING SWITCH IS TURNED ON, HEAD LAMP DOES NOT LIGHTS UP

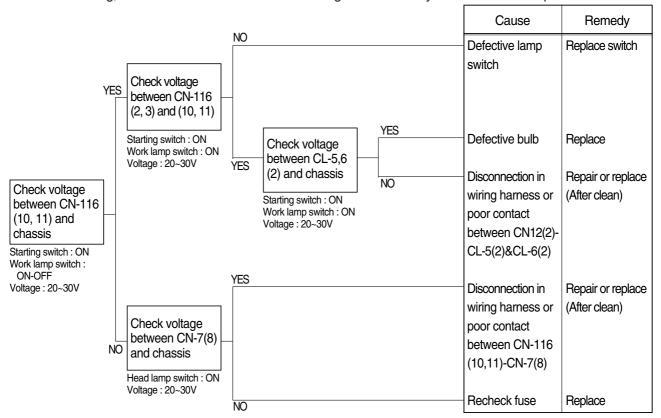
- · Before disconnecting the connector, always turn the starting switch OFF.
- · Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No.14.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.

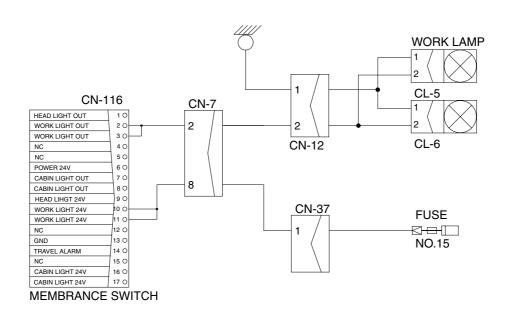




### 13. WHEN STARTING SWITCH IS TURNED ON, WORK LAMP DOES NOT LIGHTS UP

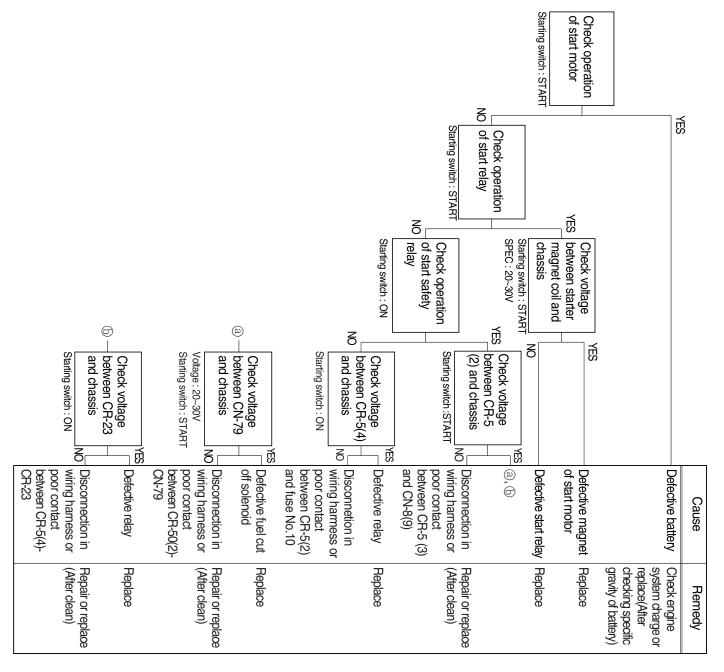
- · Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and short of fuse No.15.
- · After checking, insert the disconnected connectors again immediately unless otherwise specified.

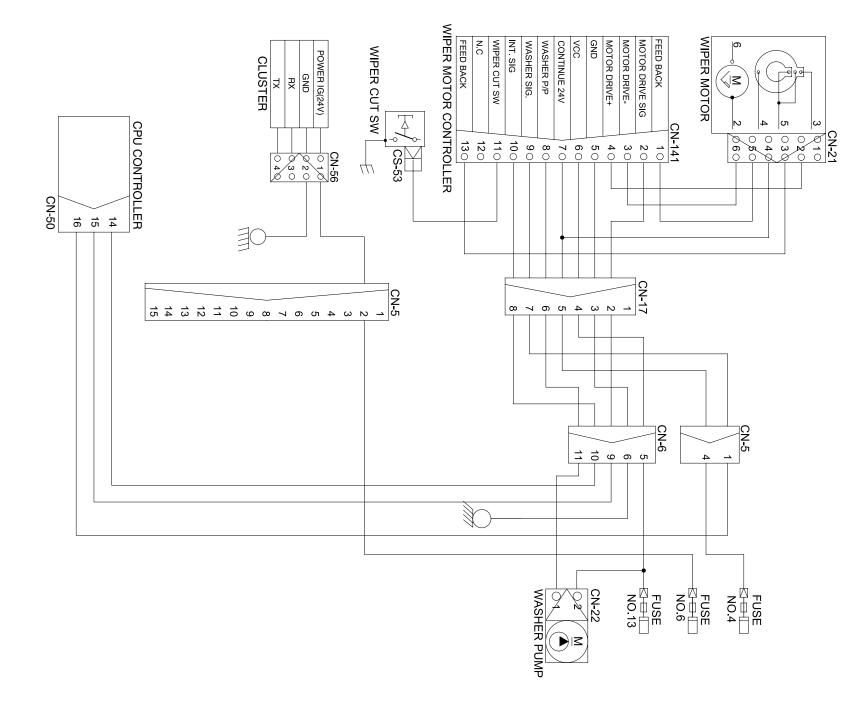




### 14. WHEN ENGINE DOES NOT START

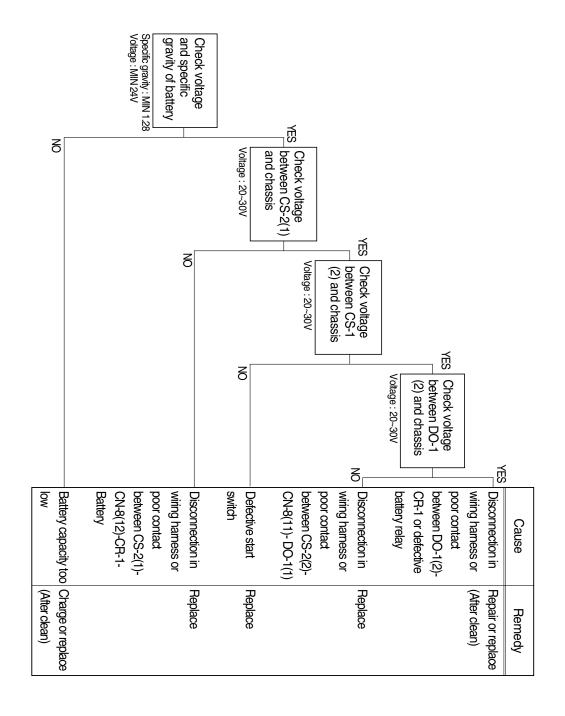
- · Check supply of the power at engine stop solenoid while starting switch is ON.
- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, insert the disconnected connectors again immediately unless otherwise specified.

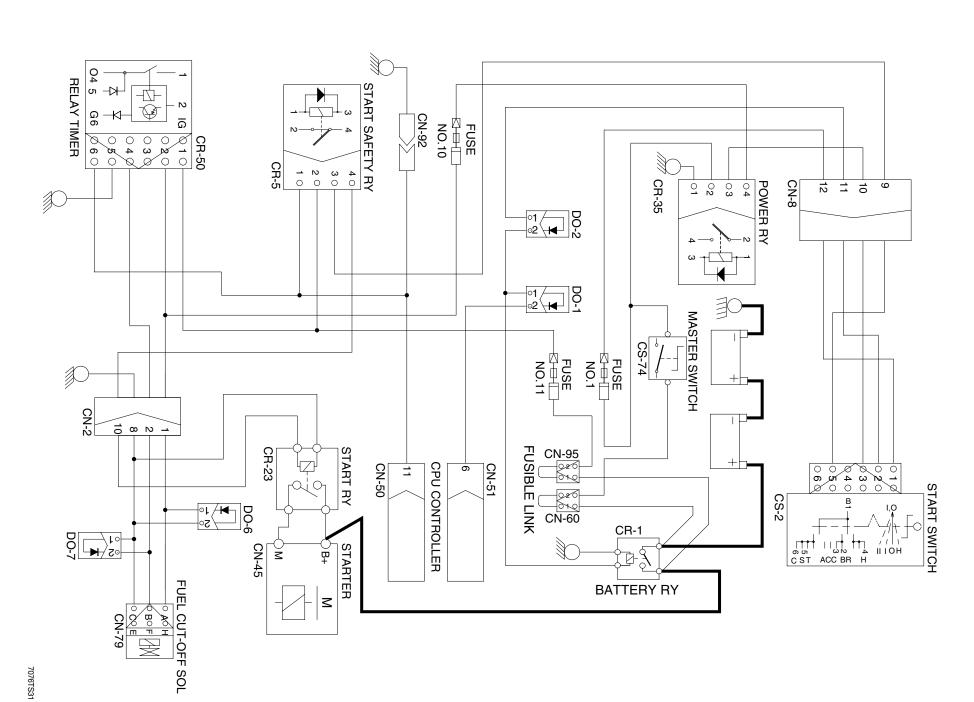




## 15. WHEN STARTING SWITCH ON DOES NOT OPERATE

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





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# 16. 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.4, 6 and 13 is not blown out.
- After checking, insert the disconnected connectors again immediately unless otherwise specified

