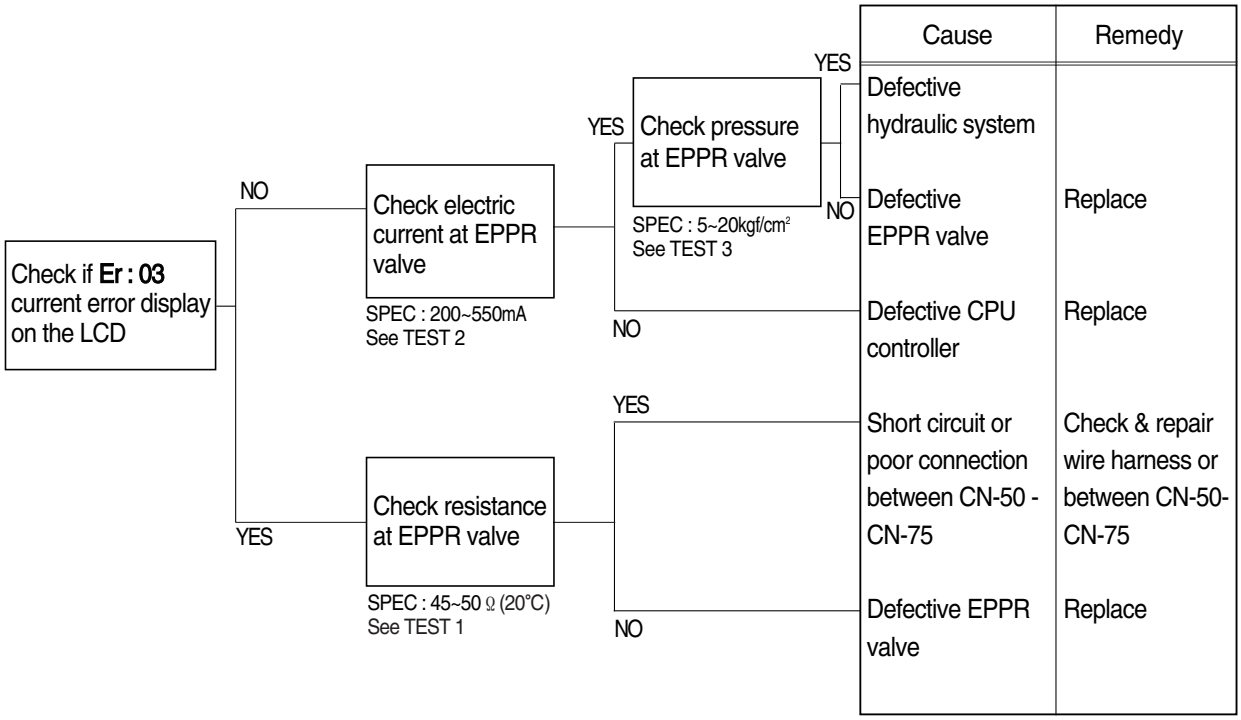
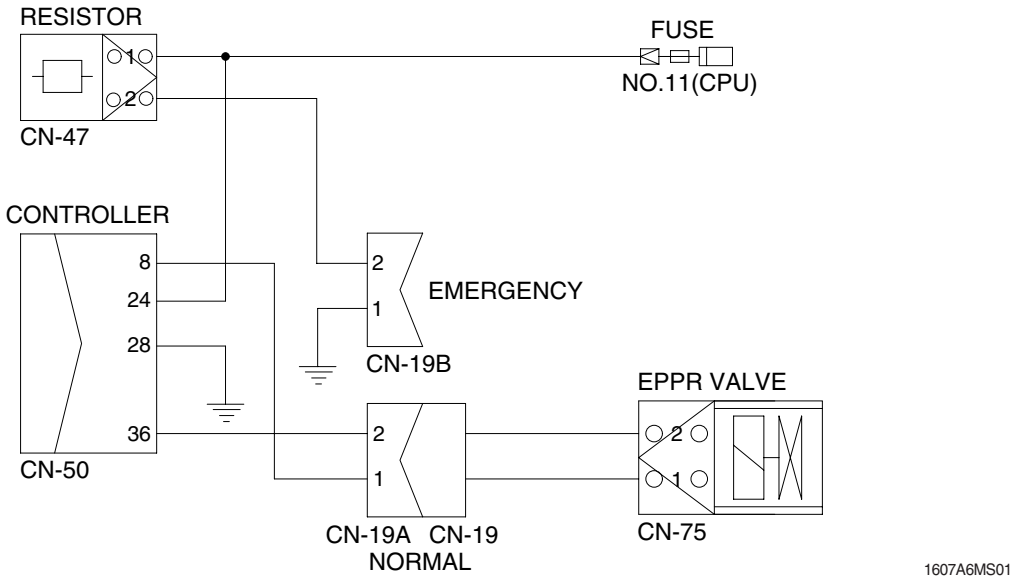
1. ALL ACTUATORS SPEED ARE SLOW

※ Boom, Arm, Bucket, Swing and travel speed are slow, but engine speed is good.
※ Spec : M-mode 2100±50rpm H-mode 1900±50rpm S-mode 1800±50rpm
※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Wiring diagram



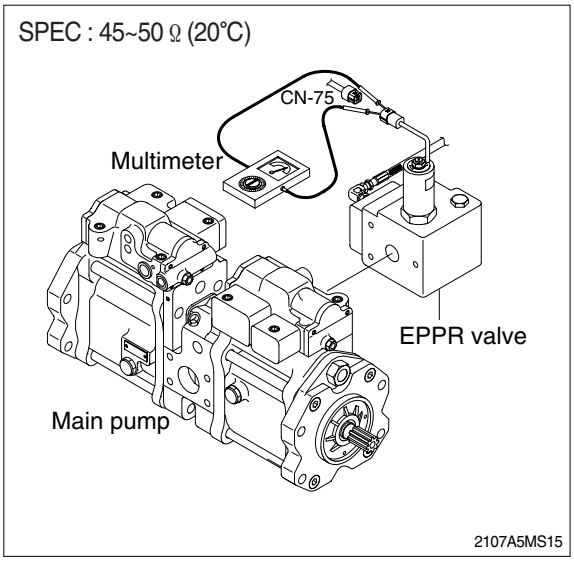
2) TEST PROCEDURE

(1) Test 1 : Check resistance at connector CN-75.

① Starting key OFF.

② Disconnect connector CN-75 from EPPR valve at main hydraulic pump.

③ Check resistance between 2 lines as figure.



(2) Test 2 : Check electric current at EPPR valve.

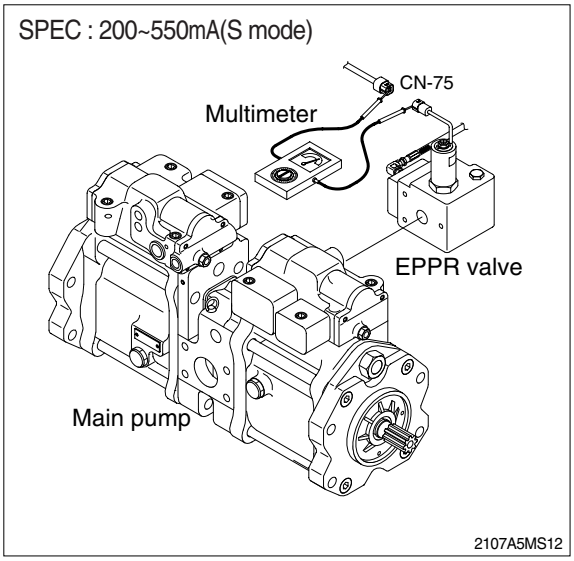
① Install multimeter as figure.

② Start engine.

③ Set the accel dial at "10"(MAX)

④ Set S-mode and cancel auto decel mode.

⑤ If tachometer show approx 1800±50rpm, check electric current.



(3) Test 3 : Check pressure at EPPR valve.

① Remove plug and connect pressure gauge as figure.

· Gauge capacity : 0 to 40~50kgf/cm^2 (0 to 570~710psi)

② Start engine.

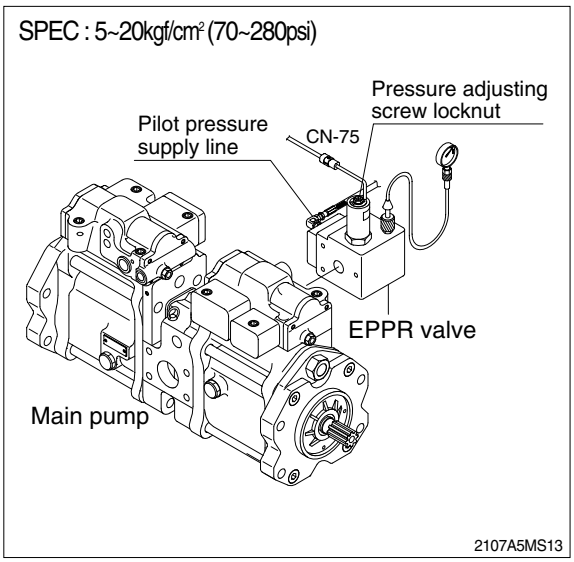
③ Set the accel dial at "10"(Max).

④ Set S-mode and cancel auto decel mode.

⑤ If tachometer show approx 1800±50rpm, check pressure.

⑥ If pressure is not correct, adjust it.

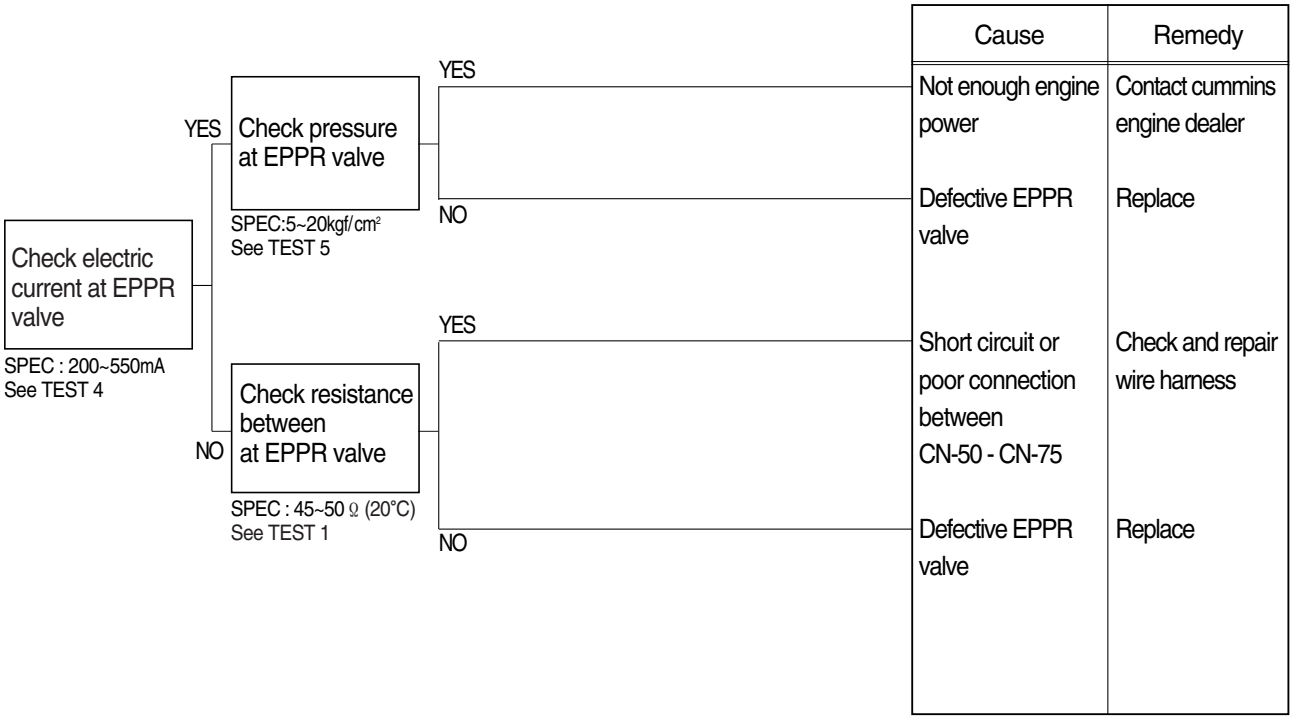
⑦ After adjust, test the machine.



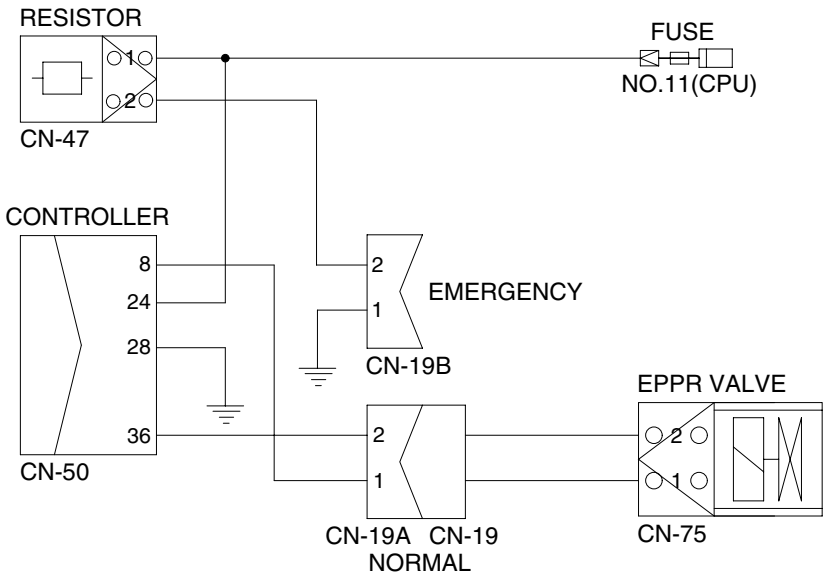
2. ENGINE STALL

※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Wiring diagram

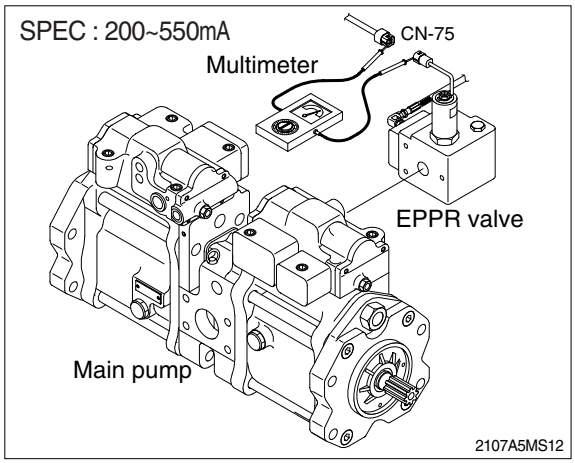


1607A6MS01

2) TEST PROCEDURE

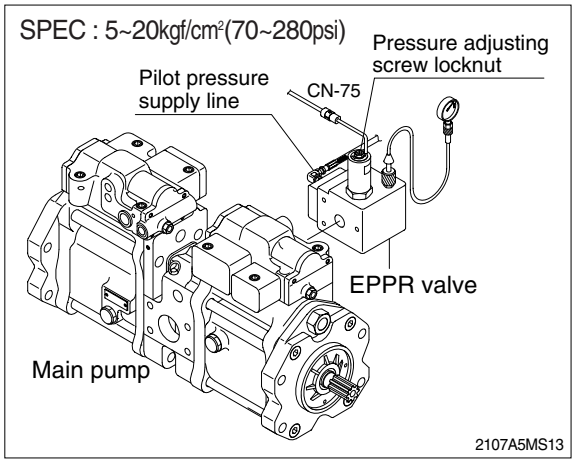
(1) Test 4 : Check electric current at EPPR valve at S-mode

① Install multimeter as figure.
② Start engine.
③ Set the accel dial at "10"(max)
④ Set S-mode with 1800±50rpm.
⑤ Check electric current.



(2) Test 5 : Check pressure at EPPR valve at S-mode

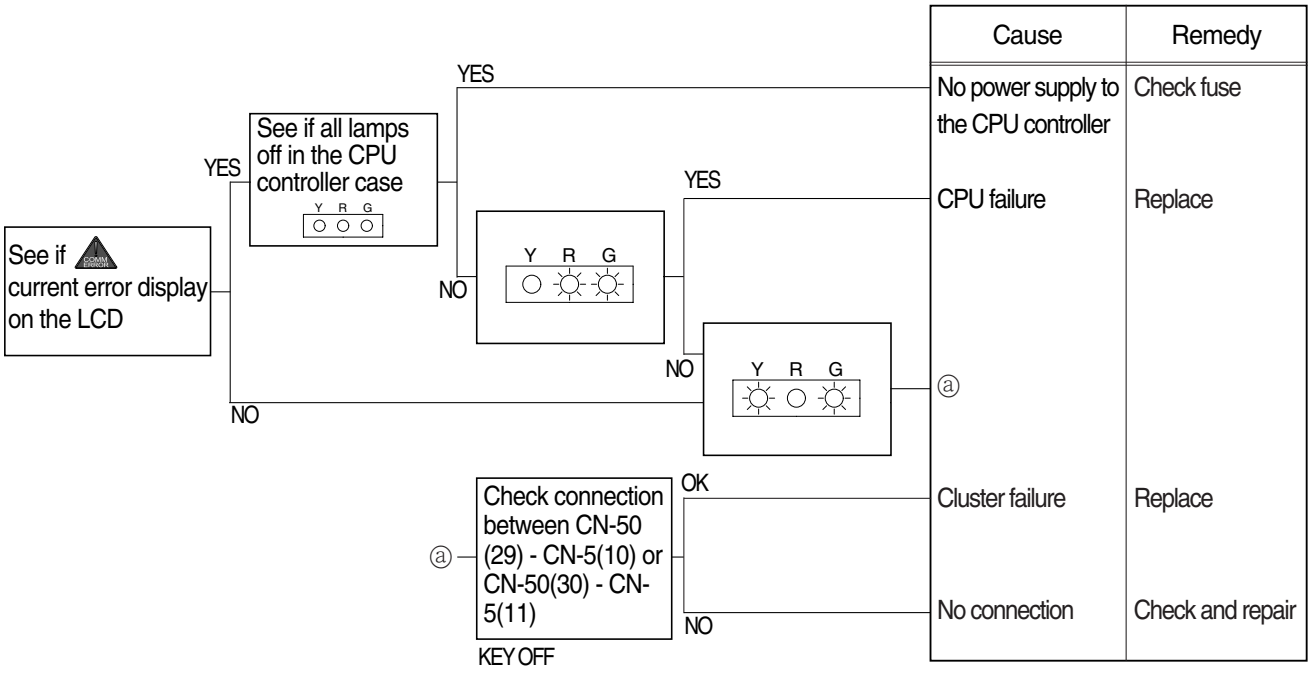
① Connect pressure gauge at EPPR valve.
② Start engine.
③ Set the accel dial at "10"(max)
④ Set S-mode with 1800±50rpm.
⑤ Operate bucket lever completely push or pull.
⑥ Hold arm lever at the end of stroke.
⑦ Check pressure at relief position.



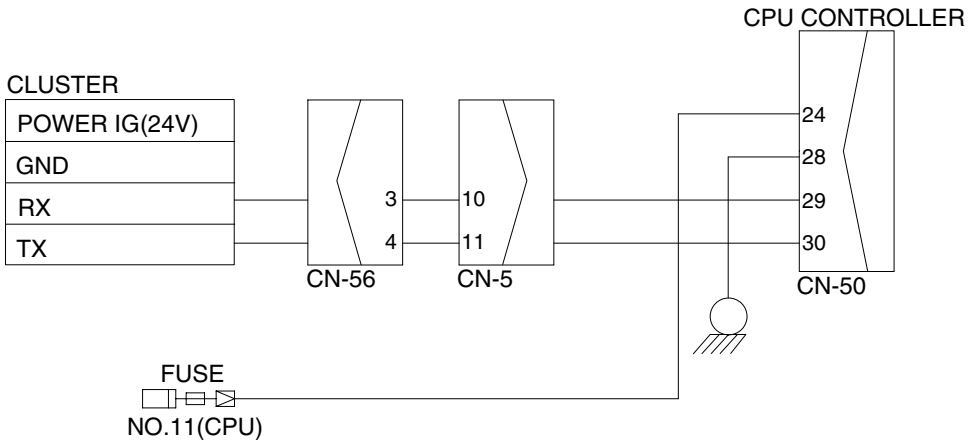
3. MALFUNCTION OF CLUSTER OR MODE SELECTION SYSTEM

※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Wiring diagram



36076MS02

4. AUTO DECEL SYSTEM DOES NOT WORK

※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE

Check resistance between CN-51 (1)-GND and CN-51(13)-GND

SPEC :
Actuator operating : 0~1V
Actuator stop : 4~5V
See TEST 6

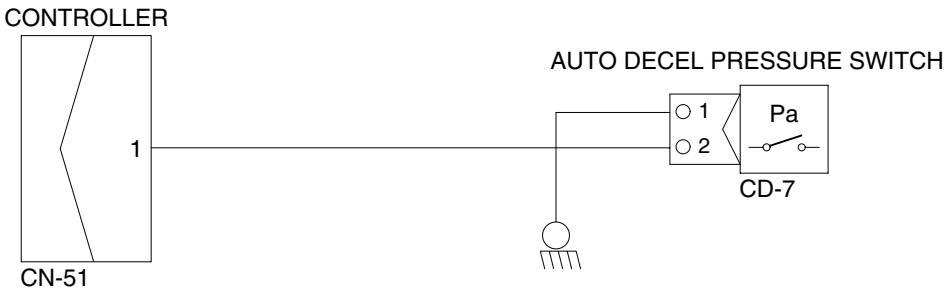
YES

NO

NO

Cause	Remedy
Defective CPU controller	Replace
Short circuit or poor connection between CN-51(1)- pressure switches	Replace or repair
Defective auto decel pressure switch	Replace

Wiring diagram



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2) TEST PROCEDURE

(1) Test 6 : Check voltage at CN-51(1) and ground.

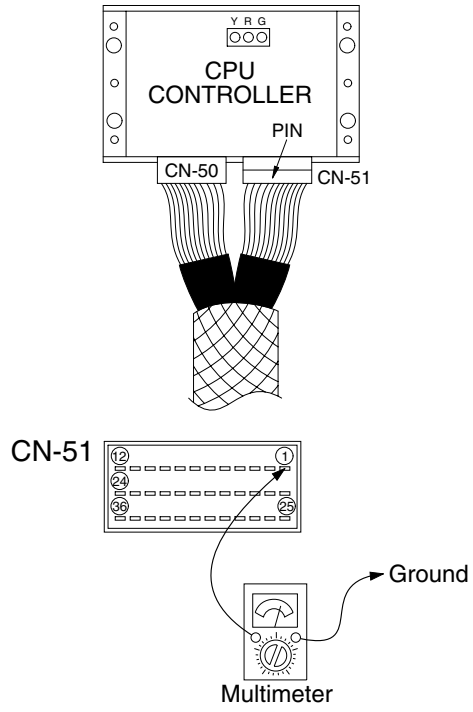
① Prepare 1 piece of thin sharp pin, steel or copper.

② Starting key ON.

③ Insert prepared pin to rear side of connectors : One pin to (1) of CN-51.

④ Check voltage as figure.

SPEC : Actuator stop : 4~5V
Actuator operating : 0~1V

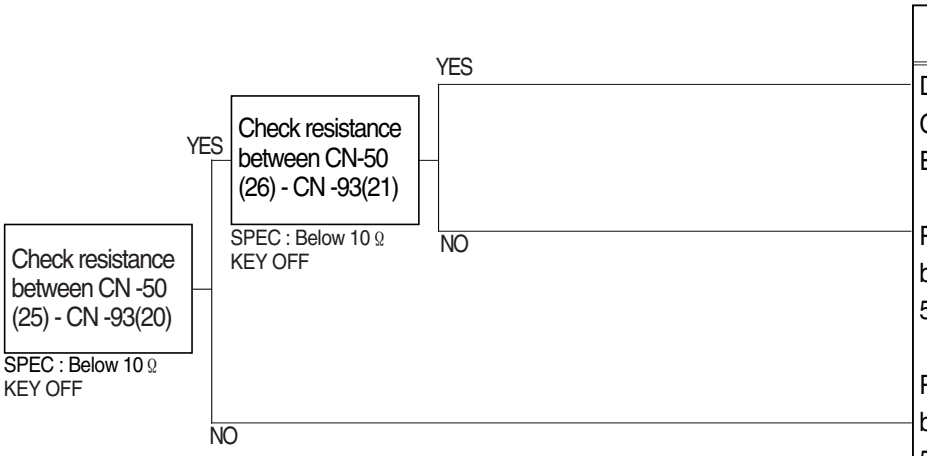


1607A6MS11

5. MALFUNCTION OF WARMING UP

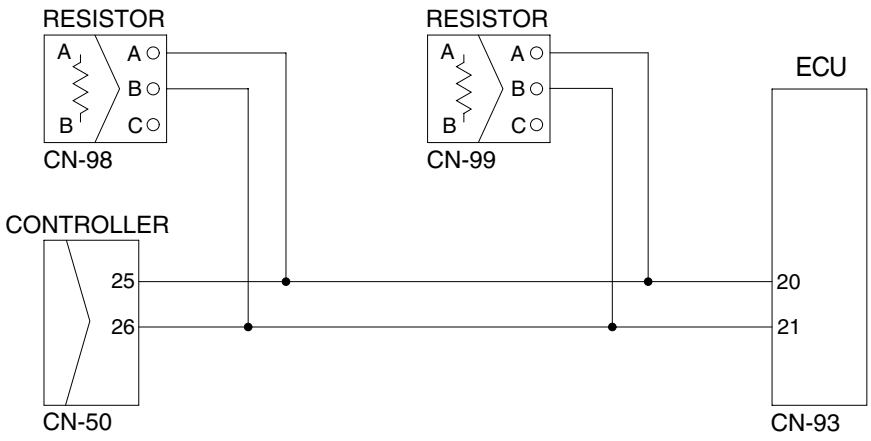
※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Cause	Remedy
Defective cluster or CPU controller or ECU	Repair or Replace
Poor connection between CN-50(26) - CN -93(21)	Repair
Poor connection between CN-50(25) - CN -93(20)	Repair

Wiring diagram

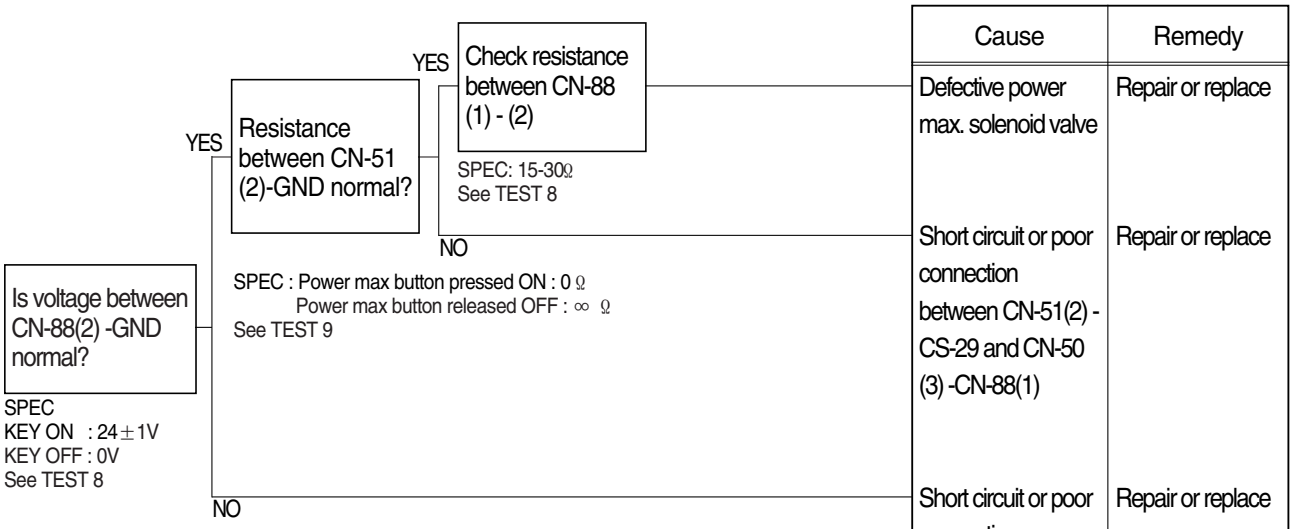


1607A6ES03

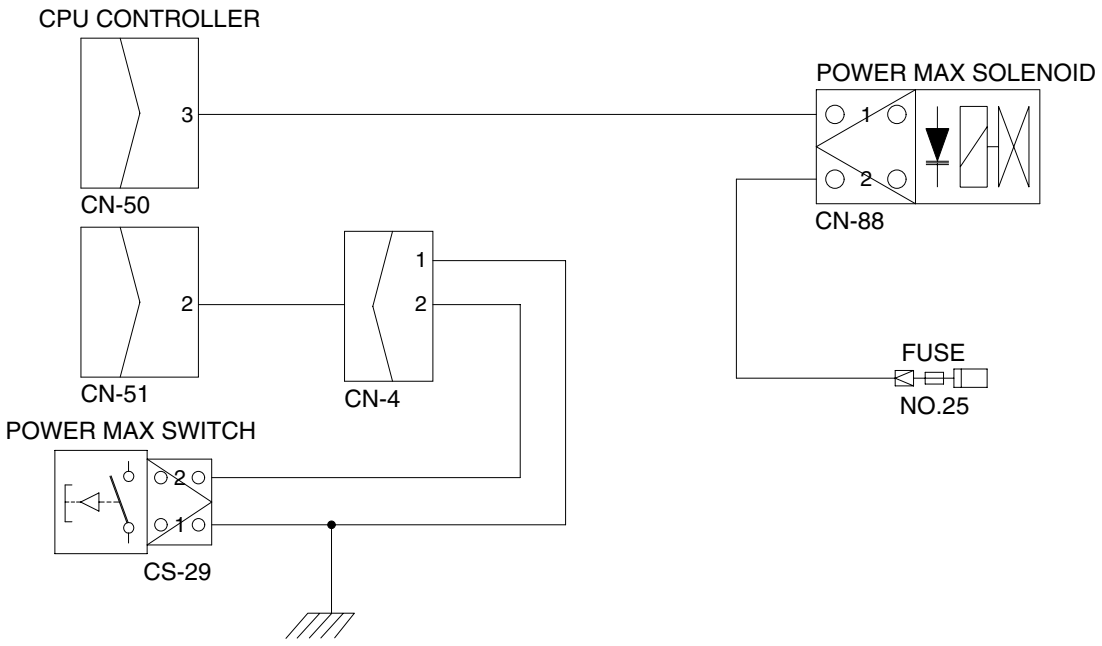
6. MALFUNCTION OF POWER MAX

※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Wiring diagram



50076MS04

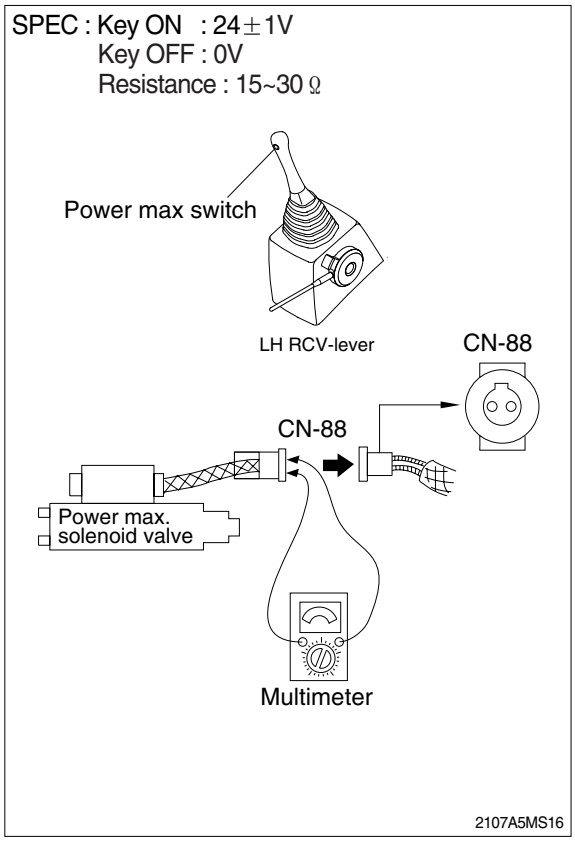
2) TEST PROCEDURE

(1) Test 8: Check voltage between connector CN-88 - GND.

① Start key ON.

② Disconnect connector CN-88 from power max solenoid valve.

③ Check voltage as figure.



(2) Test 9: Check resistance between connector CN-51(2)-GND.

① Starting key OFF.

② Remove CPU controller and disconnect connector CN-51 from CPU controller.

③ Check resistance as figure.