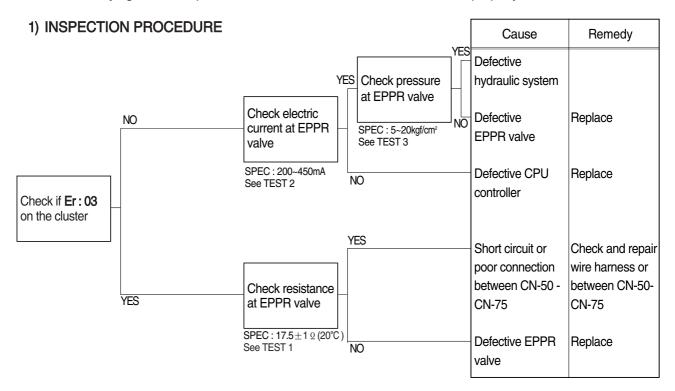
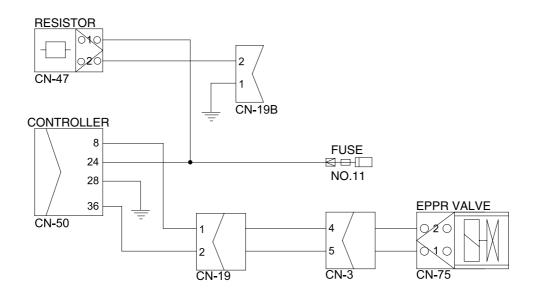
GROUP 4 MECHATRONICS SYSTEM

1. ALL ACTUATORS SPEED ARE SLOW

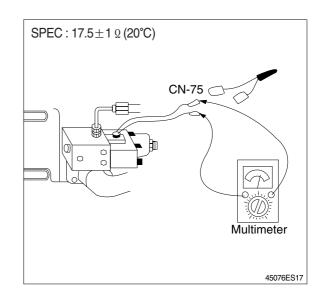
- * Boom, Arm, Bucket, Swing and travel speed are slow, but engine speed is good.
- * Spec : H-mode 1850 \pm 50rpm S-mode 1750 \pm 50rpm
- * Before carrying out below procedure, check all the related connectors are properly inserted.



Wiring diagram

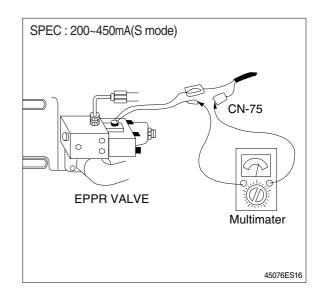


- (1) Test 1 : Check resistance at connector CN-75.
- ① Starting key OFF.
- ② Disconnect connector CN-75 from EPPR valve at main hydraulic pump.
- ③ Check resistance between 2 lines as figure.



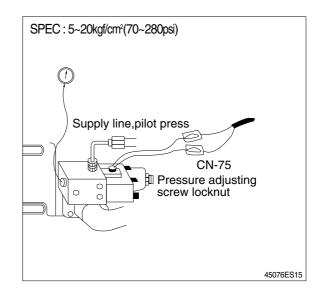
- (2) Test 2 : Check electric current at EPPR valve.
- Install multimeter as figure.
- ② Start engine.
- ③ Set the accel dial at "10"(MAX)
- 4 Set S-mode and cancel auto decel
- 5 mode.

If tachometer show approx 1750 ± 50 rpm, check electric current.



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

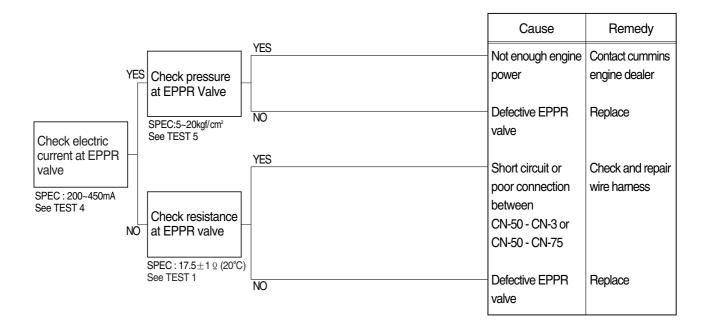
- ① Remove plug and connect pressure gauge as figure.
 - Gauge capacity : 0 to 40~50kgf/cm² (0 to 570~710psi)
- ② Start engine.
- 3 Set the accel dial at "10"(Max).
- ④ Set S-mode and cancel auto decel⑤ mode.
- If tachometer show approx 1750 \pm 50rpm,
- (6) check pressure.
- If pressure is not correct, adjust it.
 After adjust, test the machine.



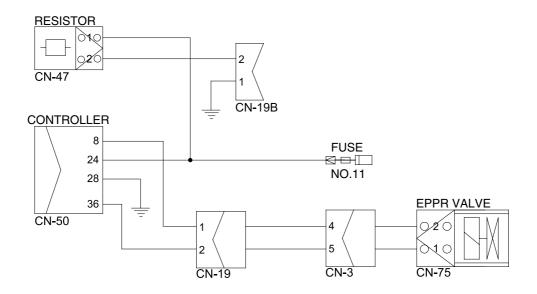
2. ENGINE STALL

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

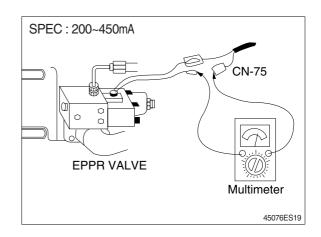
1) INSPECTION PROCEDURE



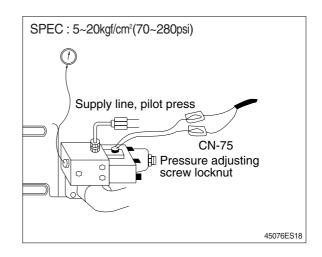
Wiring diagram



- (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 1750 \pm 50 rpm.
- (5) Check electric current.



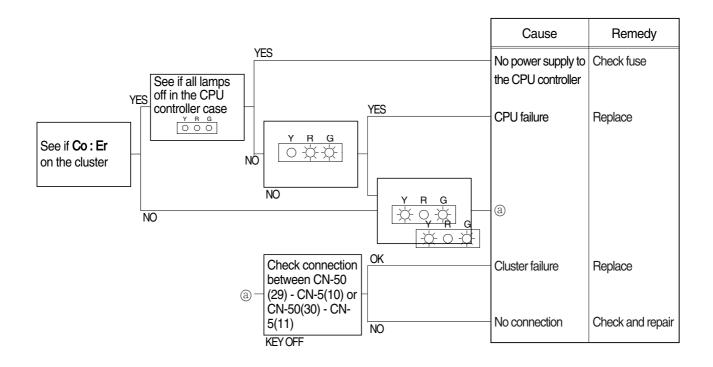
- (2) Test 5 : Check pressure at EPPR valve at S-mode
- 1 Connect pressure gauge at EPPR valve.
- 2 Start engine.
- 3 Set the accel dial at "10"(max)
- 4 Set S-mode with 1750 \pm 50 rpm.
- ⑤ Operate bucket lever completely push or pull.
- 6 Hold arm lever at the end of stroke.
- \bigodot Check pressure at relief position.



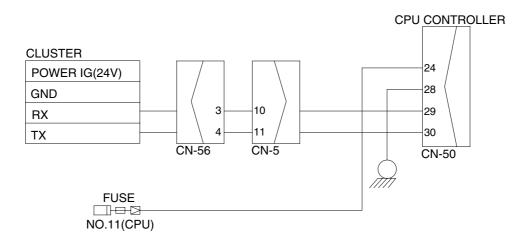
3. MALFUNCTION OF CLUSTER OR MODE SELECTION SYSTEM

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

1) INSPECTION PROCEDURE



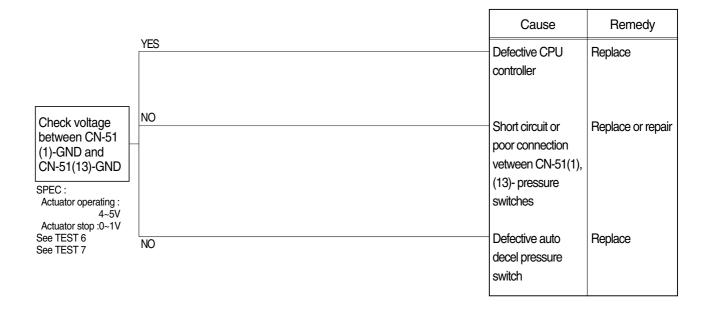
Wiring diagram



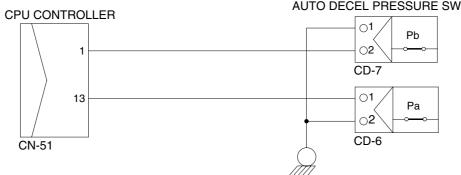
4. AUTO DECEL SYSTEM DOES NOT WORK

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

1) INSPECTION PROCEDURE

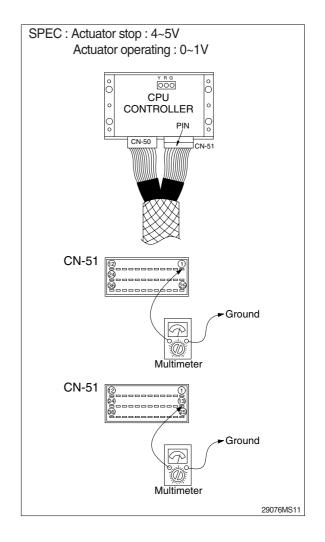


Wiring diagram



AUTO DECEL PRESSURE SWITCH

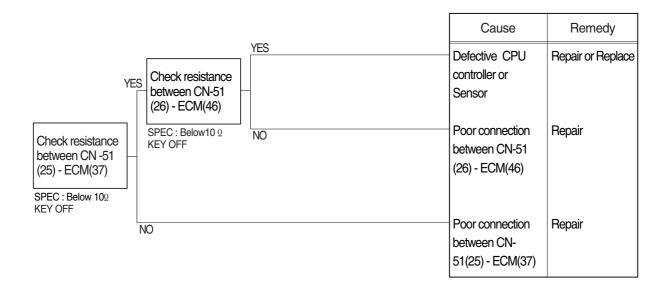
- (1) Test 6 : Check voltage at CN-51(1) and ground.
- Prepare 1 piece of thin sharp pin, steel or copper.
- ② Starting key ON.
- ③ Insert prepared pin to rear side of connectors : One pin to (1) of CN-51.
- ④ Check voltage as figure.
- (2) Test 7 : Check voltage at CN-51(13) and ground.
- Prepare 1 piece of thin sharp pin, steel or copper
- ② Starting key ON.
- ③ Insert prepared pin to rear side of connectors : One pin to (13) of CN-51
- ④ Check voltage as figure.



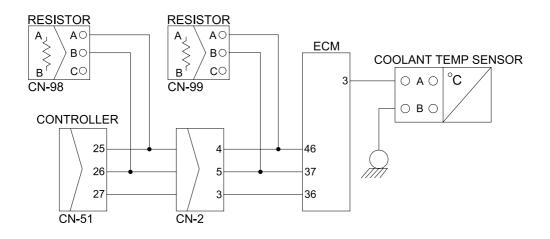
5. MALFUNCTION OF WARMING UP

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

1) INSPECTION PROCEDURE



Wiring diagram

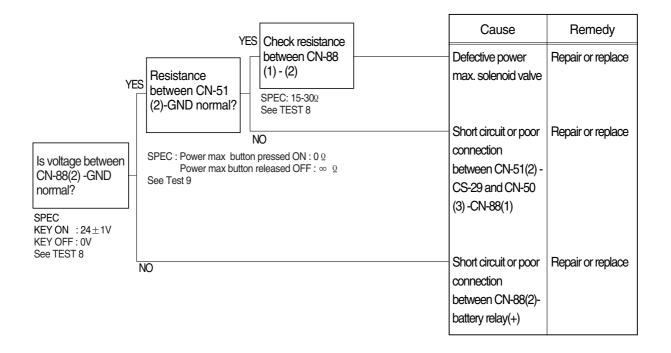


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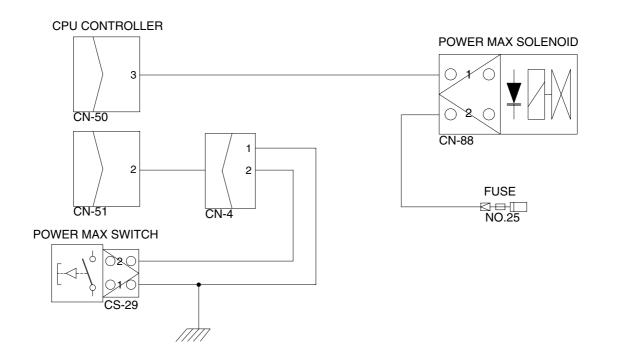
6. MALFUNCTION OF POWER MAX

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

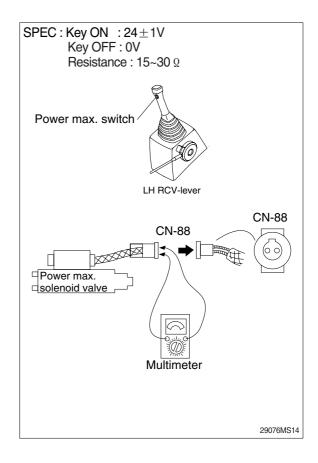
1) INSPECTION PROCEDURE



Wiring diagram



- (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.

