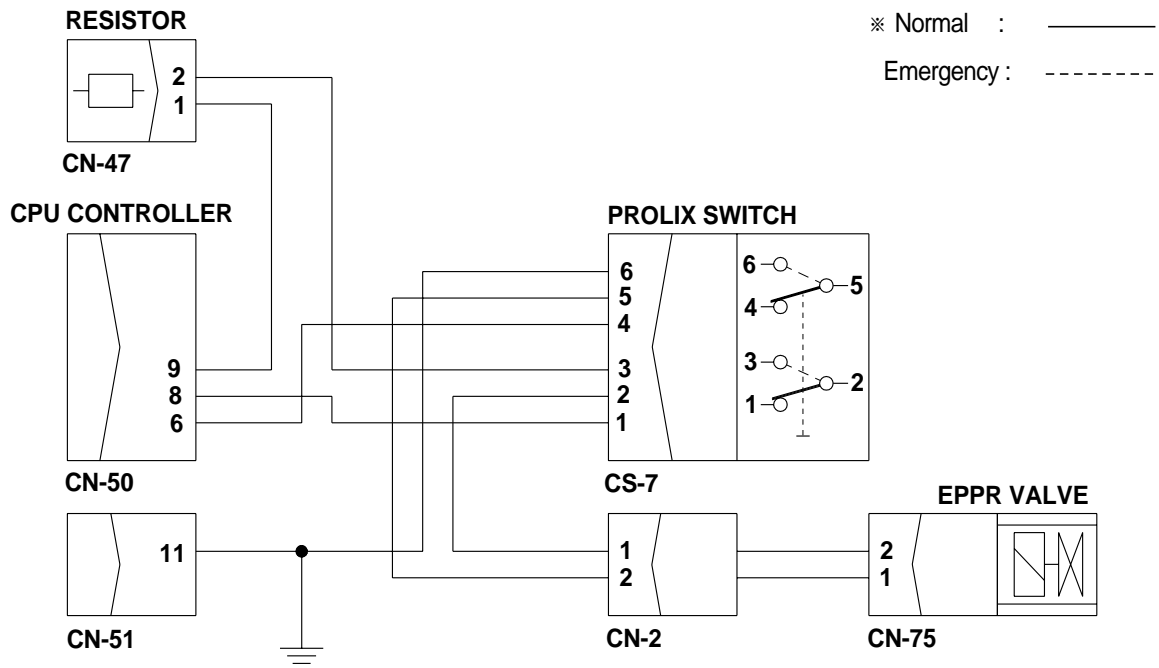## 1. ALL ACTUATORS SPEED ARE SLOW

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.

· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.

· Before starting switch turn ON or OFF, check all related connectors are properly inserted.

※ Confirm the engine speed is normal.   If not, fix the engine speed to each mode specification.

Spec : H-mode   2250 $^{+50rpm}$ S-mode   2250 $^{+50rpm}$

L-mode   2000 $^{+50rpm}$ F-mode   1650 $^{+50rpm}$

	Cause	Remedy
	Defective hydraulic system or not enough engine power	
	Defective EPPR valve	Replace
	Defective controller	Replace

Is electric current at EPPR valve normal?
· DATA LIST function
· SPEC : 390~450mA
  - S mode
  - Auto decel cancel
  - No load

Is pressure at EPPR valve normal?
· PRESSURE TEST function
· SPEC : 6~12kg/cm²
  - S mode
  - Auto decel cancel
  - No load

YES   YES   NO   NO

Wiring diagram

※ Normal   : ———————

Emergency : - - - - - - - -

RESISTOR
2
1
CN-47

CPU CONTROLLER
9
8
6
CN-50

11
CN-51

PROLIX SWITCH
6
5
4
3
2
1
CS-7

6 — 5
4 —
3 —
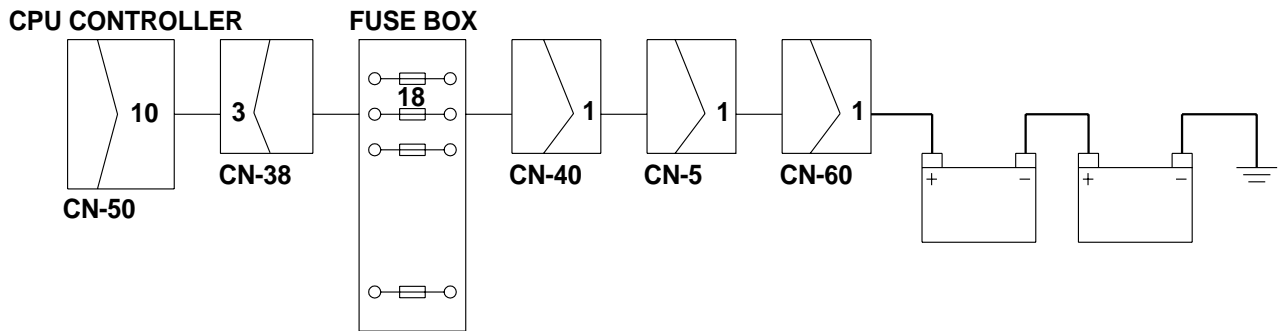1 — 2

1
2
CN-2

EPPR VALVE
2
1
CN-75

2. CLUSTER LAMPS ARE OFF IMMEDIATELY AFTER KEY SWITCH OFF

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.

· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.

· Before starting switch turn ON or OFF, check all related connectors are properly inserted.

Cause	Remedy
Defective CPU controller	Replace
Poor connection between CN-50(10)-CN-60(1)	Check and repair
Defective fuse	Replace

Does the NO CONTINUE POWER is displayed?

· SELF DIAGNOSIS function

NO

YES

Is fuse No.18 normal?

YES

NO

Wiring diagram

CPU CONTROLLER

10

CN-50

3

CN-38

FUSE BOX

18

CN-40 1

CN-5 1

CN-60 1

+ − + −

3. CLUSTER LAMPS ARE STILL ON AFTER STARTING KEY OFF

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.

· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.

· Before starting switch turn ON or OFF, check all related connectors are properly inserted.
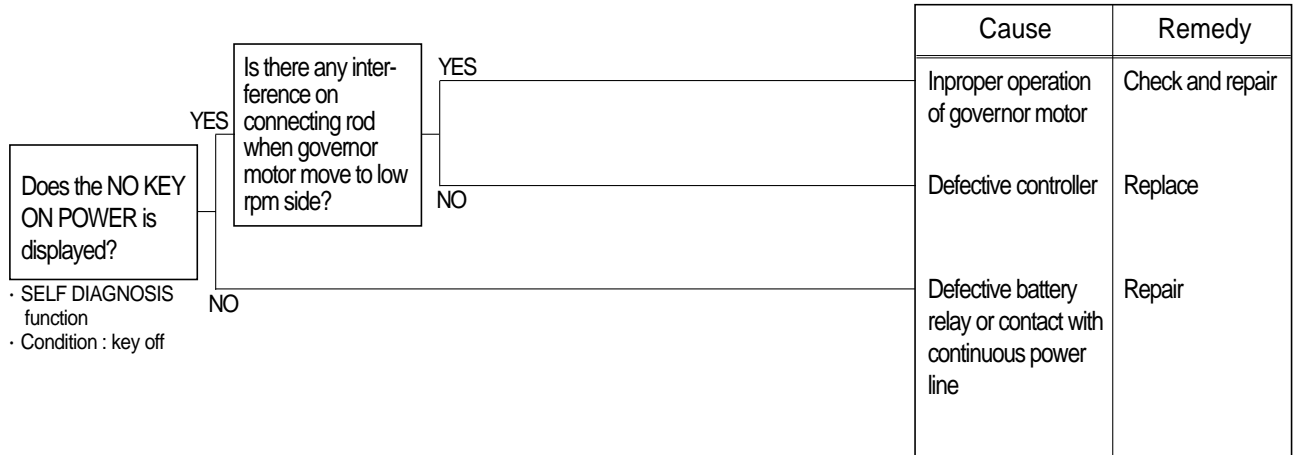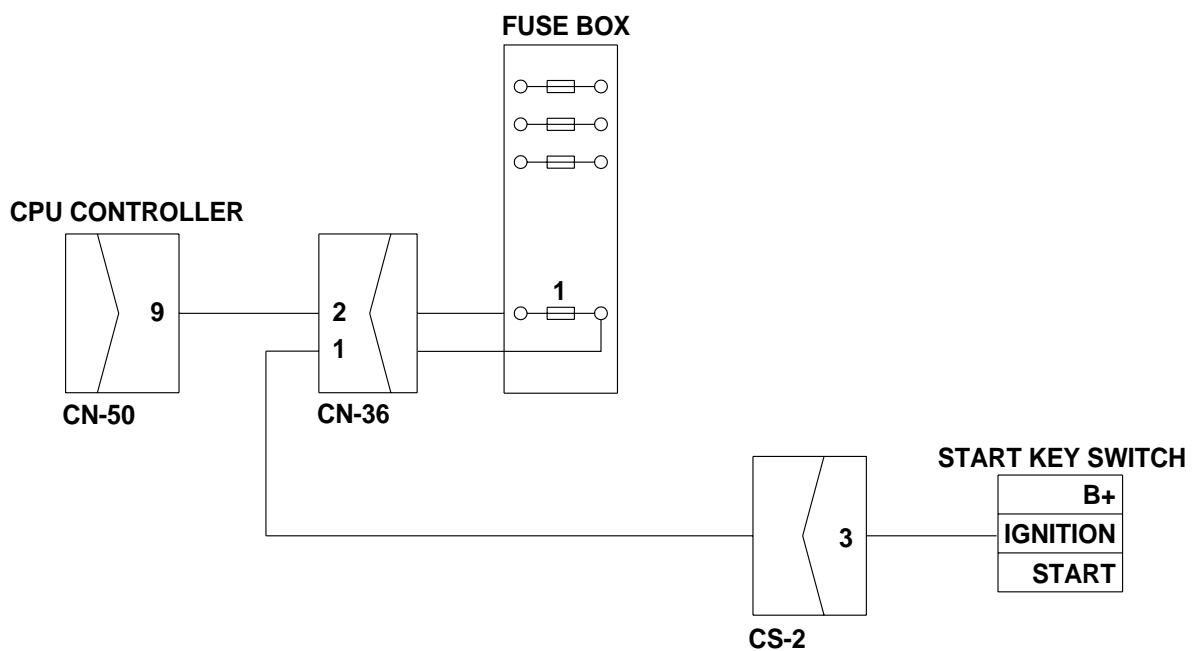
Cause	Remedy
Inproper operation of governor motor	Check and repair
Defective controller	Replace
Defective battery relay or contact with continuous power line	Repair

Does the NO KEY ON POWER is displayed?

· SELF DIAGNOSIS function
· Condition : key off

YES → Is there any interference on connecting rod when governor motor move to low rpm side?

YES →

NO →

NO →

Wiring diagram

FUSE BOX

CPU CONTROLLER

9

CN-50

2
1

CN-36

1

3

CS-2

START KEY SWITCH

B+

IGNITION

START

4. CLUSTER LAMPS ARE NOT CHANGING OR FUNCTION IS ABNORMAL WHEN THE RELATED SWITCH ARE PUSHED

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.

· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.

· Before starting switch turn ON or OFF, check all related connectors are properly inserted.
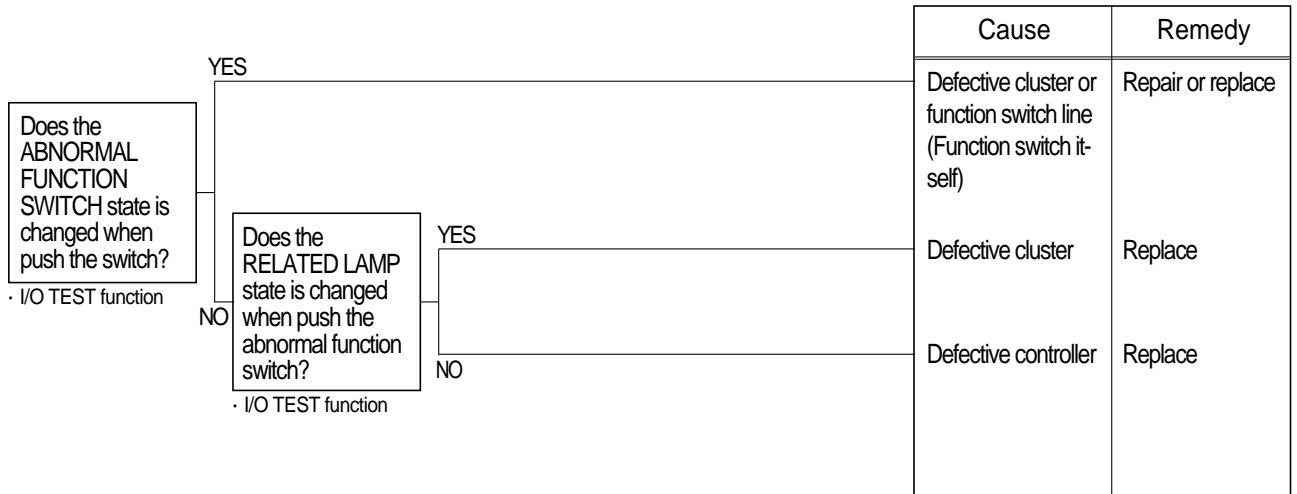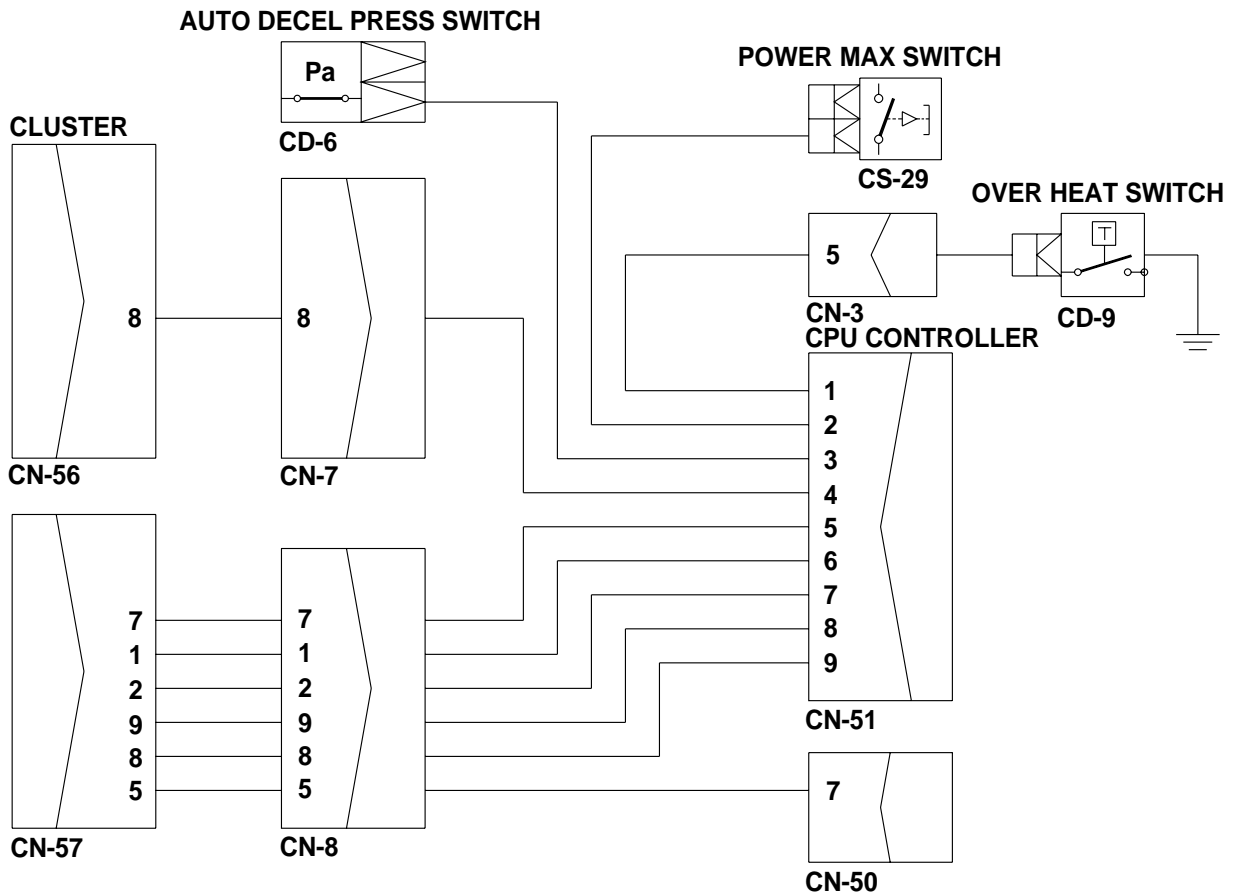
	Cause	Remedy
YES	Defective cluster or function switch line (Function switch itself)	Repair or replace
Does the ABNORMAL FUNCTION SWITCH state is changed when push the switch? · I/O TEST function NO		
Does the RELATED LAMP state is changed when push the abnormal function switch? · I/O TEST function — YES	Defective cluster	Replace
NO	Defective controller	Replace

Wiring diagram

6 - 77

5. AUTO DECEL SYSTEM DOES NOT WORK

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.
· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.
· Before starting switch turn ON or OFF, check all related connectors are properly inserted.
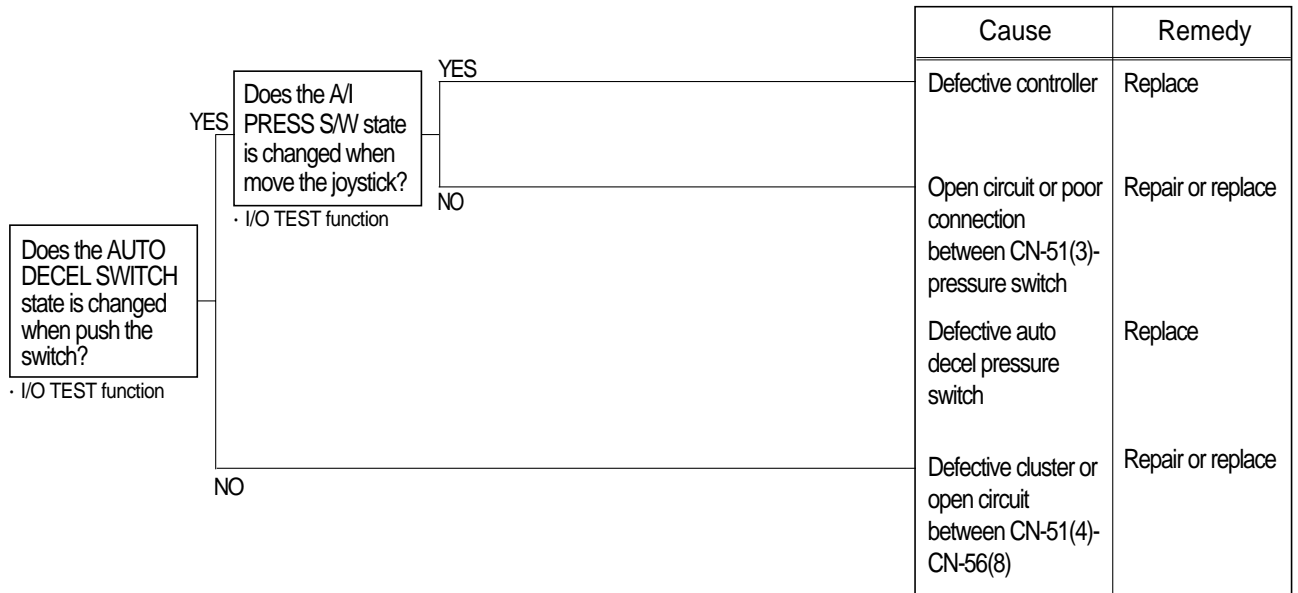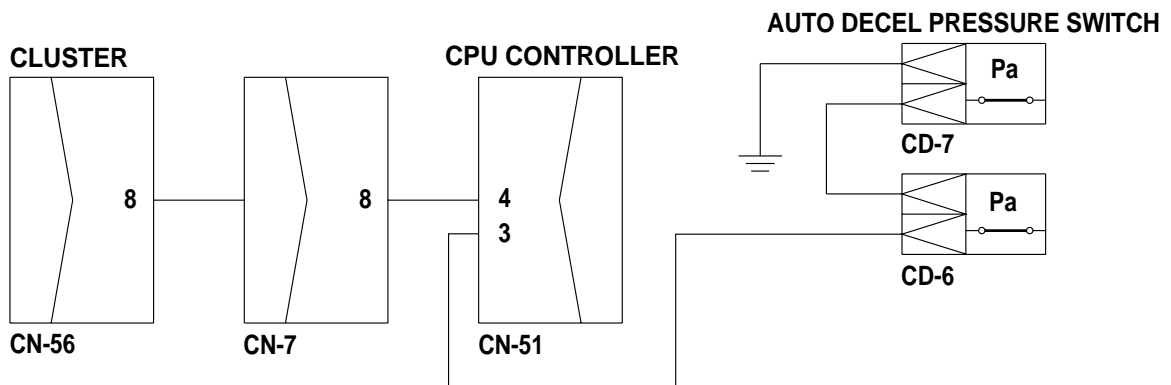
Cause	Remedy
Defective controller	Replace
Open circuit or poor connection between CN-51(3)-pressure switch	Repair or replace
Defective auto decel pressure switch	Replace
Defective cluster or open circuit between CN-51(4)-CN-56(8)	Repair or replace

Does the AUTO DECEL SWITCH state is changed when push the switch?
· I/O TEST function

YES → Does the A/I PRESS S/W state is changed when move the joystick?
· I/O TEST function

YES → Defective controller

NO → Open circuit / Defective auto decel pressure switch

NO → Defective cluster or open circuit

Wiring diagram

CLUSTER

CPU CONTROLLER

AUTO DECEL PRESSURE SWITCH

Pa

CD-7

Pa

CD-6

8

8

4
3

CN-56   CN-7   CN-51

6. ENGINE SPEED IS NOT CHANGING WHEN CHANGE THE MODE

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.
· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.
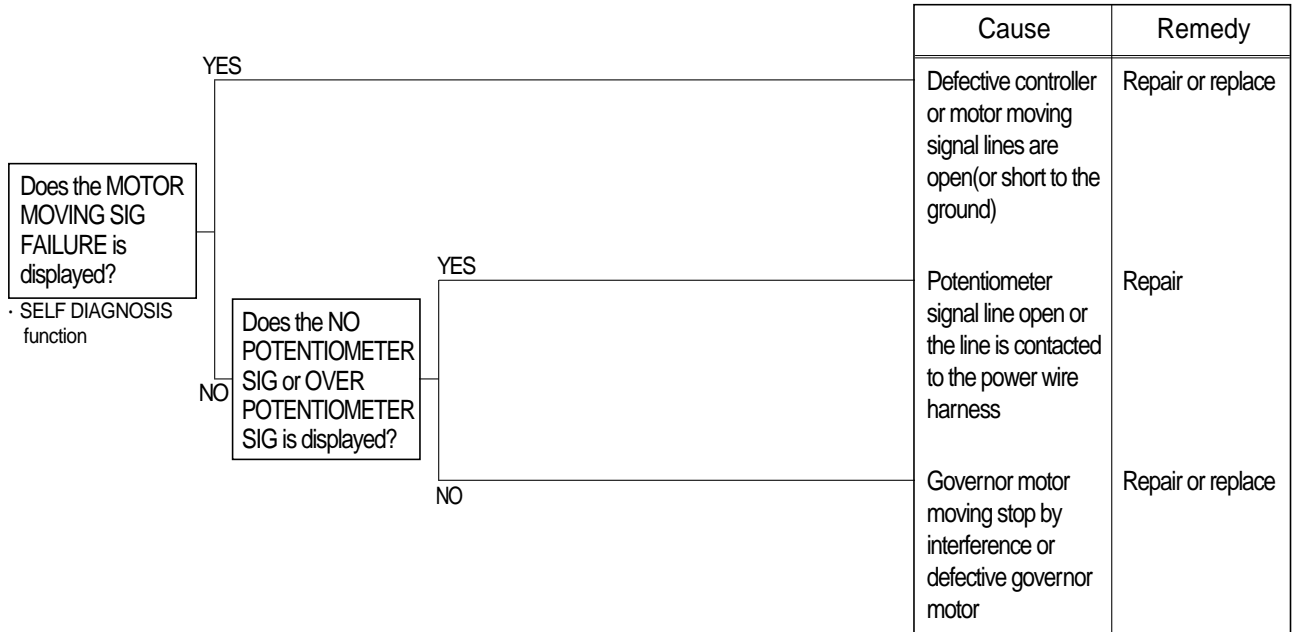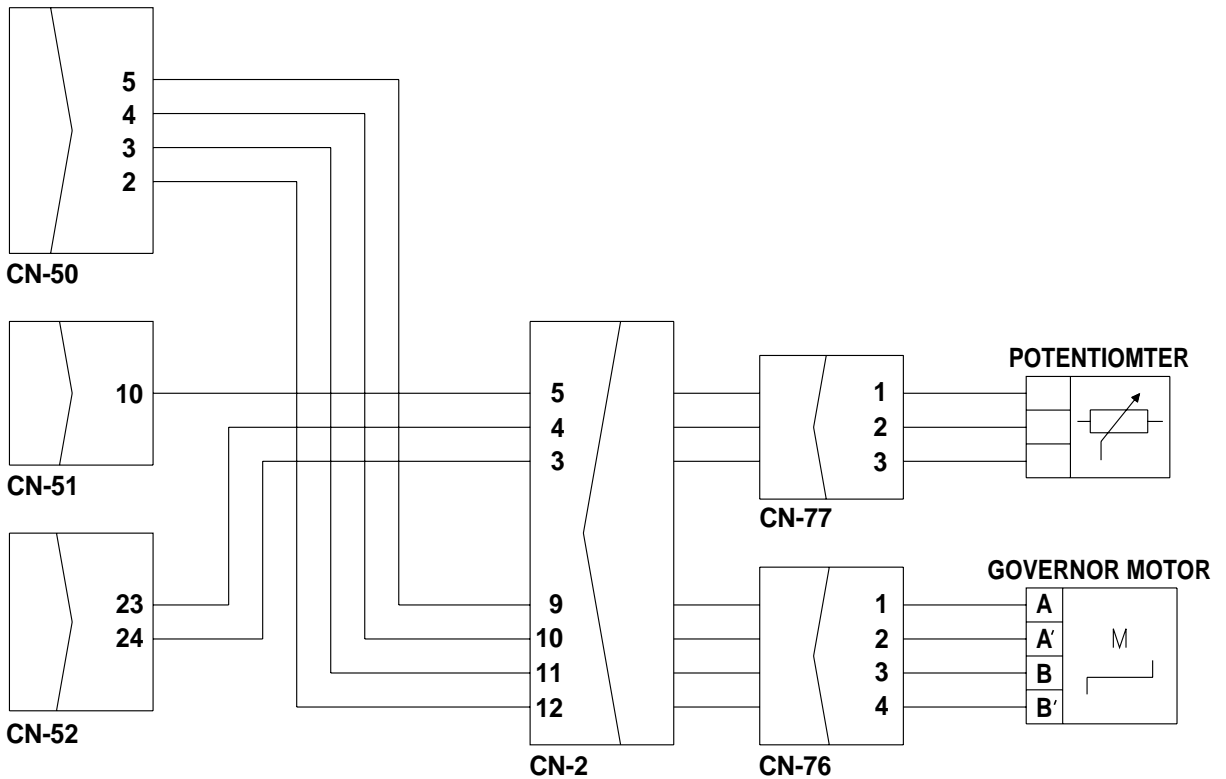· Before starting switch turn ON or OFF, check all related connectors are properly inserted.

Cause	Remedy
Defective controller or motor moving signal lines are open(or short to the ground)	Repair or replace
Potentiometer signal line open or the line is contacted to the power wire harness	Repair
Governor motor moving stop by interference or defective governor motor	Repair or replace

Does the MOTOR MOVING SIG FAILURE is displayed?
· SELF DIAGNOSIS function

YES → Defective controller or motor moving signal lines are open(or short to the ground)

NO → Does the NO POTENTIOMETER SIG or OVER POTENTIOMETER SIG is displayed?

YES → Potentiometer signal line open or the line is contacted to the power wire harness

NO → Governor motor moving stop by interference or defective governor motor

Wiring diagram

CPU CONTROLLER

CN-50 : 5, 4, 3, 2
CN-51 : 10
CN-52 : 23, 24

CN-2 : 5, 4, 3, 9, 10, 11, 12

CN-77 : 1, 2, 3 — POTENTIOMTER
CN-76 : 1, 2, 3, 4 — GOVERNOR MOTOR : A, A′, B, B′ M

7. MALFUNCTION OF POWER MAX

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.

· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.

· Before starting switch turn ON or OFF, check all related connectors are properly inserted.
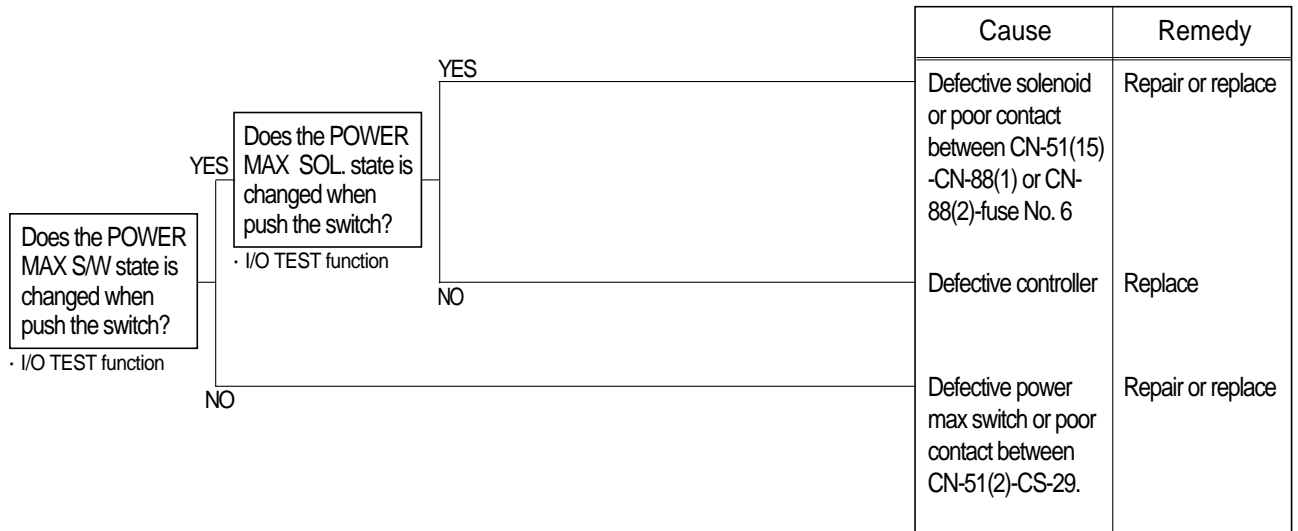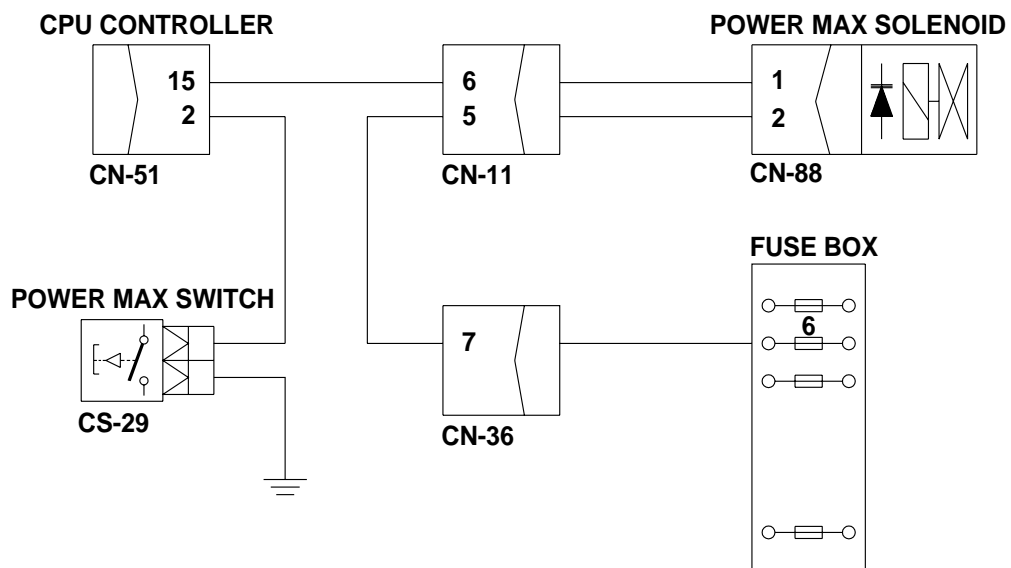
Cause	Remedy
Defective solenoid or poor contact between CN-51(15) -CN-88(1) or CN-88(2)-fuse No. 6	Repair or replace
Defective controller	Replace
Defective power max switch or poor contact between CN-51(2)-CS-29.	Repair or replace

Does the POWER MAX S/W state is changed when push the switch?
· I/O TEST function

Does the POWER MAX SOL. state is changed when push the switch?
· I/O TEST function

YES

NO

YES

YES

NO

Wiring diagram

CPU CONTROLLER

15
2

CN-51

6
5

CN-11

POWER MAX SOLENOID

1
2

CN-88

FUSE BOX

6

POWER MAX SWITCH

CS-29

7

CN-36

8. EXCESSIVE DROP IN ENGINE SPEED OR ENGINE STALLS, WHEN A LOAD IS APPLIED

· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.
· Before mounting or dismounting the HYPER DAT, always turn the starting switch OFF.
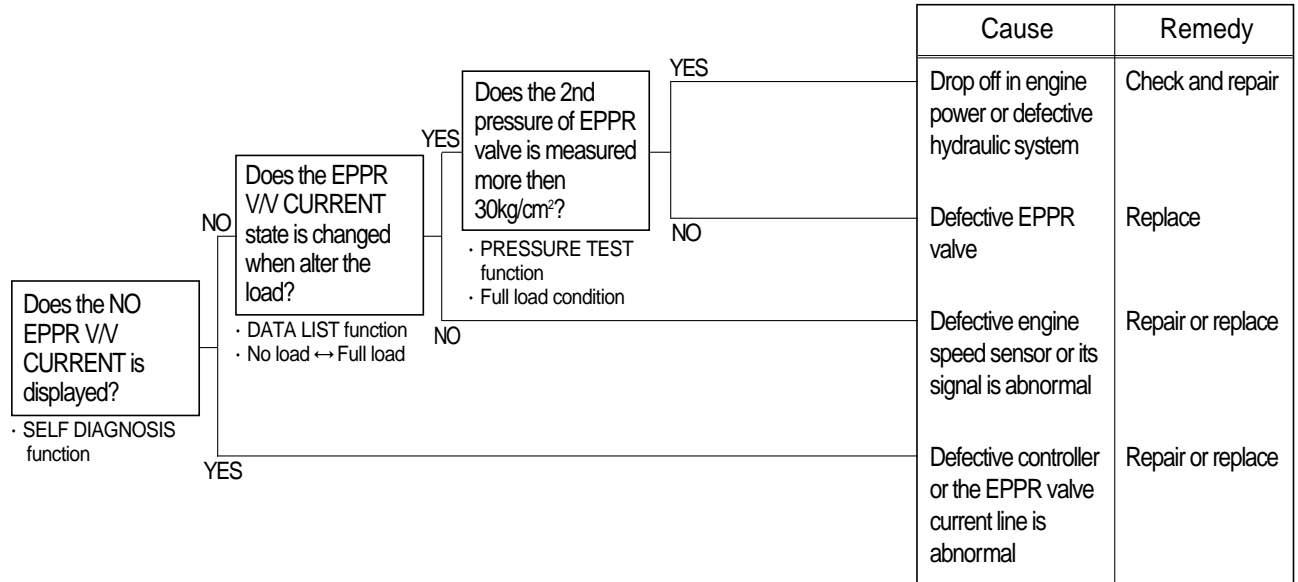· Before starting switch turn ON or OFF, check all related connectors are properly inserted.

Cause	Remedy
Drop off in engine power or defective hydraulic system	Check and repair
Defective EPPR valve	Replace
Defective engine speed sensor or its signal is abnormal	Repair or replace
Defective controller or the EPPR valve current line is abnormal	Repair or replace

Does the NO EPPR V/V CURRENT is displayed?
· SELF DIAGNOSIS function

Does the EPPR V/V CURRENT state is changed when alter the load?
· DATA LIST function
· No load ↔ Full load

Does the 2nd pressure of EPPR valve is measured more then 30kg/cm²?
· PRESSURE TEST function
· Full load condition

NO — YES — YES — YES — NO — NO — YES

Wiring diagram

RESISTOR
2
1
CN-47

CPU CONTROLLER
9
8
6
CN-50

11
CN-51

PROLIX SWITCH
6
5
4
3
2
1
CS-7

6 5
4
3
1 2
CN-2
1
2

EPPR VALVE
2
1
CN-75

※ Normal : ————
Emergency : --------