1. WHEN STARTING SWITCH IS TURNED ON, MONITOR PANEL DISPLAY DOES NOT APPEAR
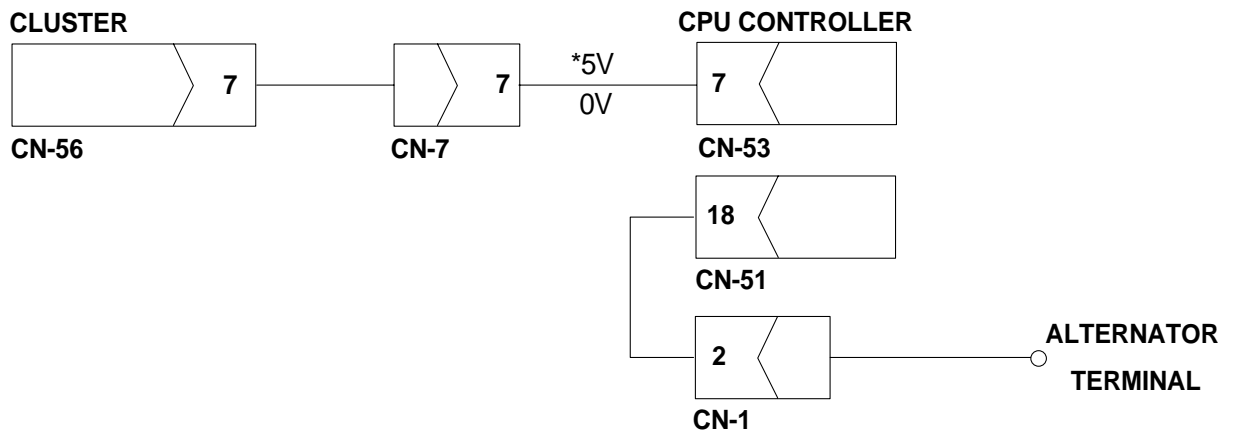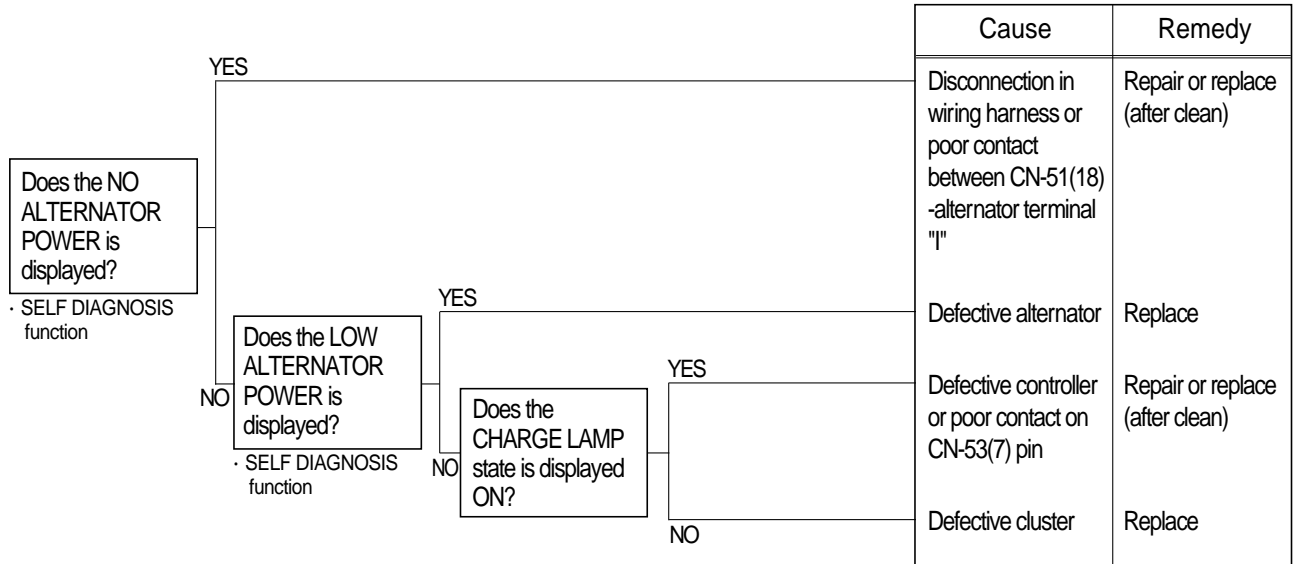
· Before using the HYPER DAT make sure you understand the user's guide of HYPER DAT.

· 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
Disconnection in wiring harness or poor contact between CN-36(2) -CN-50(9) If not, check the fuse No.1(CPU)	Repair or replace (after clean)
Poor contact of CN-50(7) pin or defective controller	Repair or replace
Disconnection in wiring harness or poor contact between CN-57(5) -CN-50(7) If not, check the cluster	Repair or replace (after clean)

Does the NO KEY ON POWER is displayed?
· SELF DIAGNOSIS function

YES → Does the NO KEY ON POWER is displayed, also?
· SELF DIAGNOSIS function

YES
NO
NO

CLUSTER

CN-57 5 11 12 — **CN-8** 5 11 12 — **CN-50** 9 7

CN-36 2 — **FUSE No.1**

CPU **CN-51** 11

CN-4 2

check voltage

YES	20 ~ 30V
NO	0V
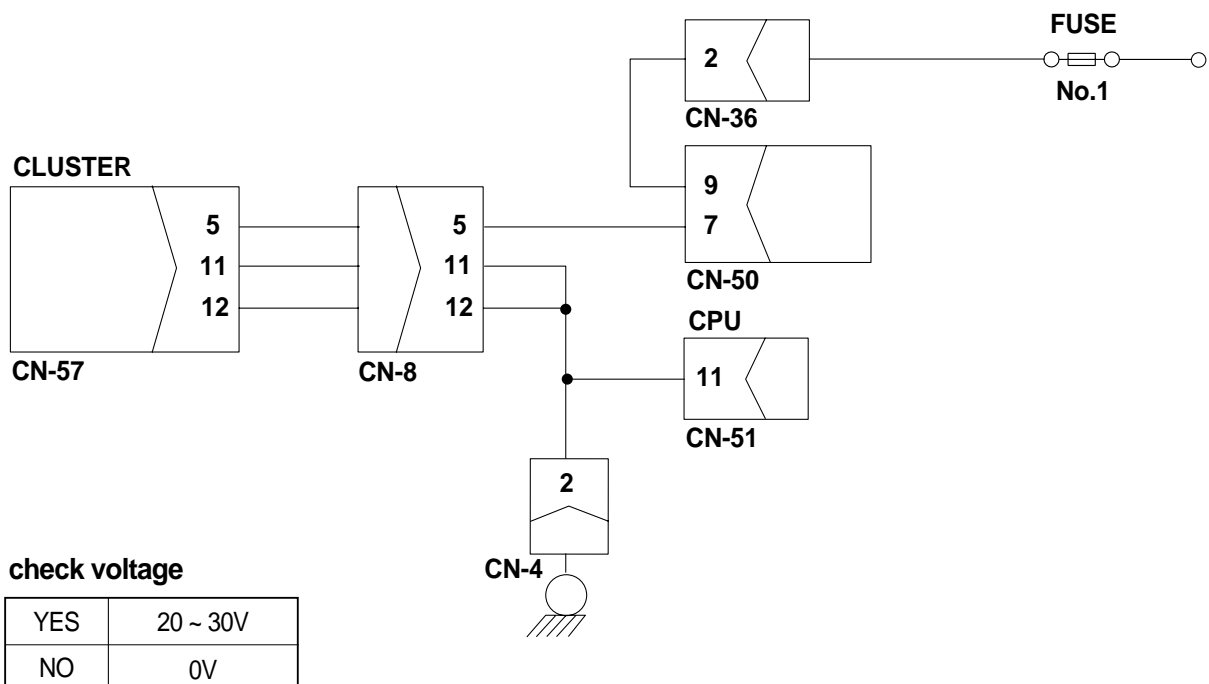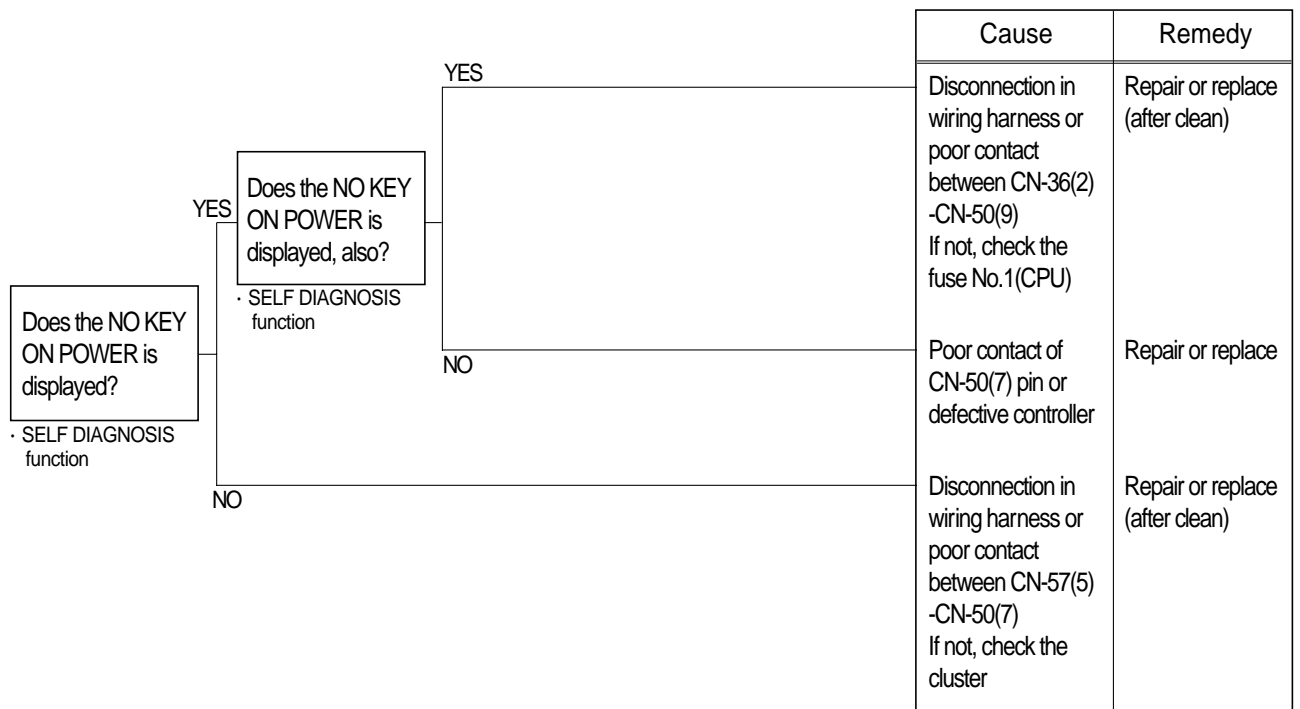
2. BATTERY CHARGING LAMP LIGHTS UP (Engine is started)

· 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
Disconnection in wiring harness or poor contact between CN-51(18) -alternator terminal "I"	Repair or replace (after clean)
Defective alternator	Replace
Defective controller or poor contact on CN-53(7) pin	Repair or replace (after clean)
Defective cluster	Replace

Does the NO ALTERNATOR POWER is displayed?
· SELF DIAGNOSIS function

YES → Disconnection in wiring harness...
NO →

Does the LOW ALTERNATOR POWER is displayed?
· SELF DIAGNOSIS function

YES → Defective alternator
NO →

Does the CHARGE LAMP state is displayed ON?

YES → Defective controller or poor contact on CN-53(7) pin
NO → Defective cluster

CLUSTER

7

CN-56

7

CN-7

*5V
0V

CPU CONTROLLER

7

CN-53

18

CN-51

2

CN-1

ALTERNATOR TERMINAL

check voltage

YES	26 ~ 30V	*5V
NO	Below 26V	0V

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

· 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.
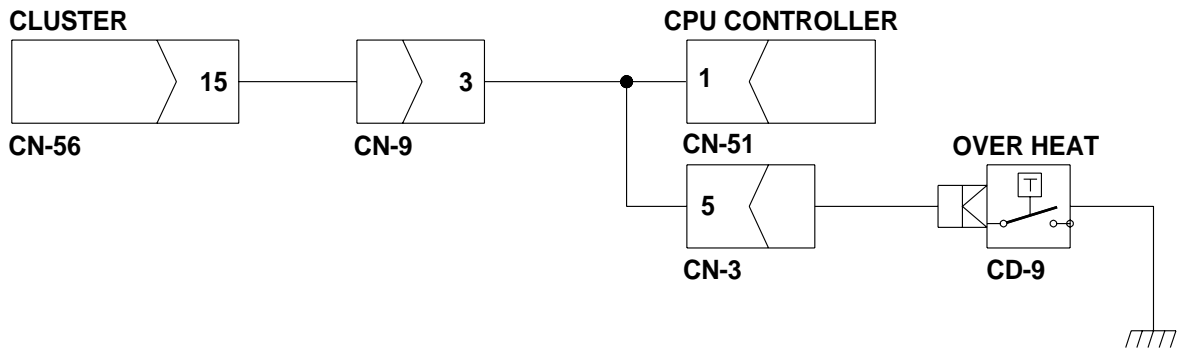
	Cause	Remedy
	Coolant overheat (110±2℃)	Check engine system
	Contact to the ground between CN-51(1) -CN-56(15) or CN-51(1) -CD-9	Repair or replace (after clean)
	Defective cluster	Replace

Does the display go off when disconnect CD-9 and connector?
· Check by manual

YES

NO

Does the OVER HEAT S/W state is displayed ON?
· I/O TEST function

YES

NO

CLUSTER

15

CN-56

3

CN-9

CPU CONTROLLER

1

CN-51

5

CN-3

OVER HEAT

CD-9

check resistance

YES	MAX 1Ω
NO	MIN 1 MΩ

4. ⌷⍾ **WHEN HYDRAULIC OIL TEMPERATURE LAMP LIGHTS UP**(Engine is started)

· 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.

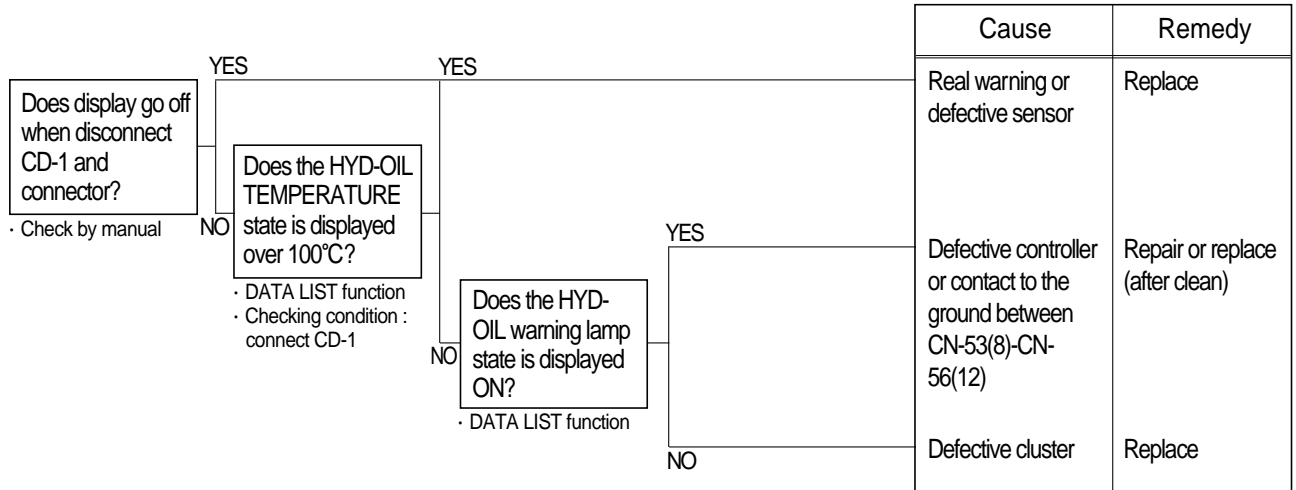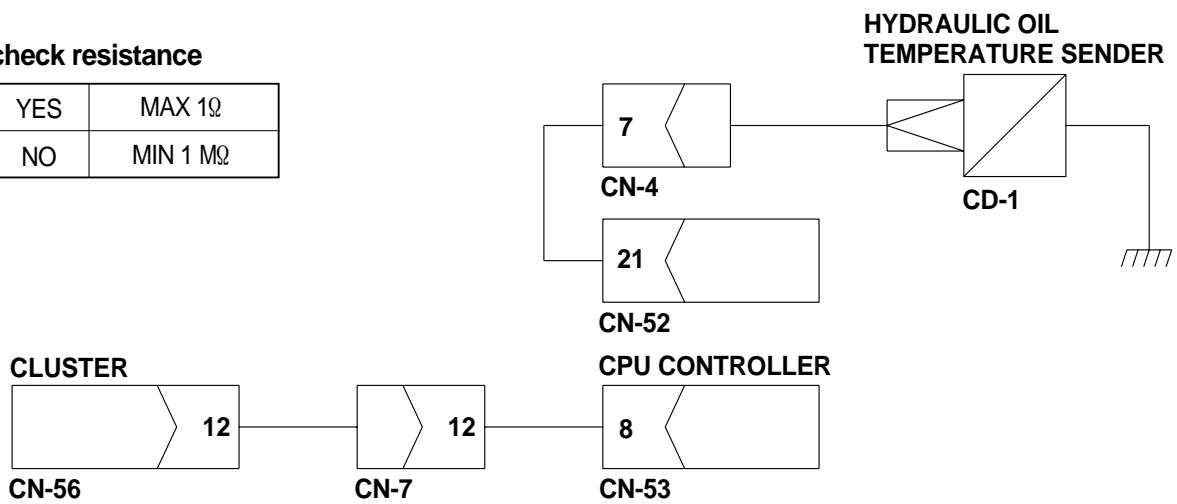· Before starting switch turn ON or OFF, check all related connectors are properly inserted.

	Cause	Remedy
	Real warning or defective sensor	Replace
	Defective controller or contact to the ground between CN-53(8)-CN-56(12)	Repair or replace (after clean)
	Defective cluster	Replace

Does display go off when disconnect CD-1 and connector?
· Check by manual

YES →

Does the HYD-OIL TEMPERATURE state is displayed over 100℃?
· DATA LIST function
· Checking condition : connect CD-1

YES →

NO →

Does the HYD-OIL warning lamp state is displayed ON?
· DATA LIST function

YES →

NO →

check resistance

YES	MAX 1Ω
NO	MIN 1 MΩ

HYDRAULIC OIL TEMPERATURE SENDER

7   CN-4

21   CN-52

CD-1

CLUSTER

12   CN-56

12   CN-7

CPU CONTROLLER

8   CN-53

5. WHEN TRAVEL SPEED 1, 2 DOES NOT OPERATE

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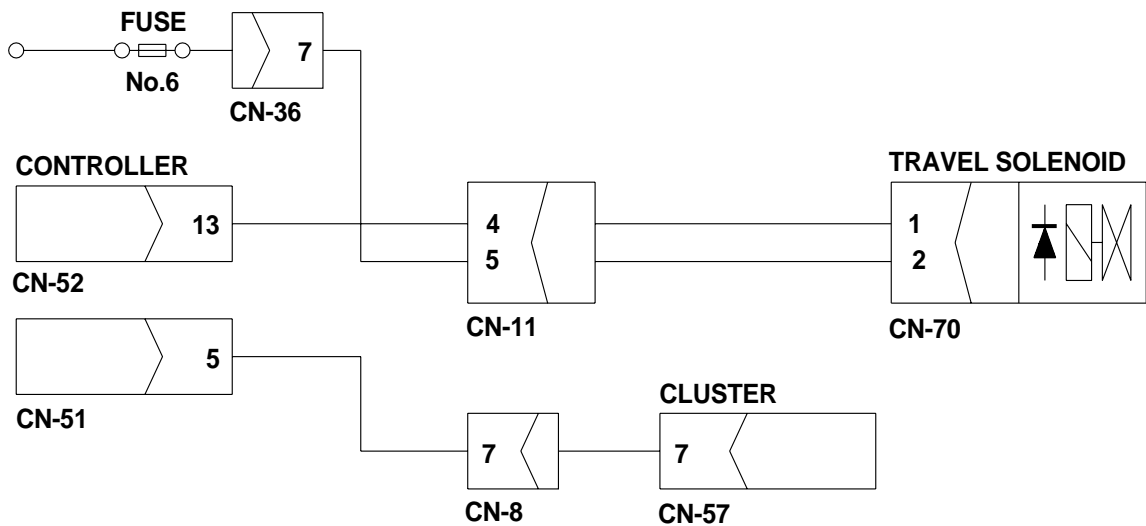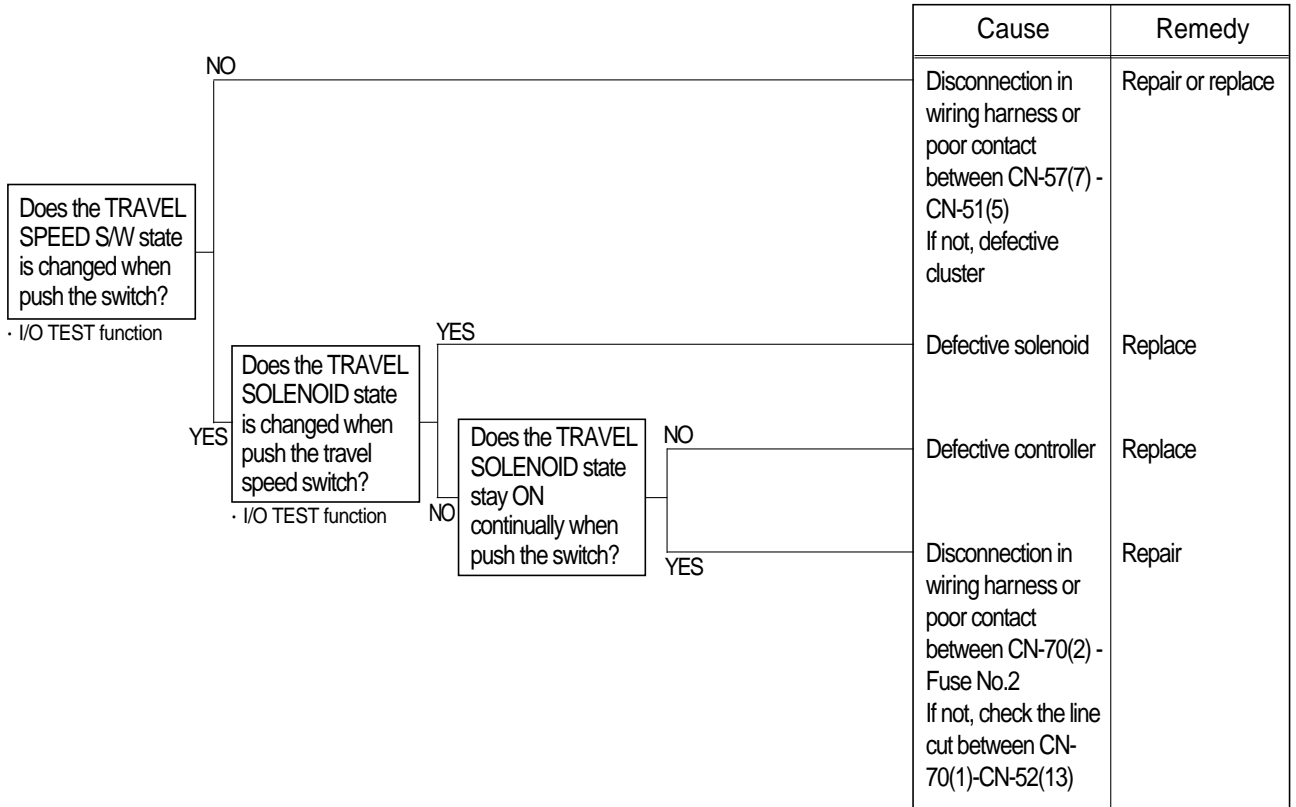· Before starting switch turn ON or OFF, check all related connectors are properly inserted.

Cause	Remedy
Disconnection in wiring harness or poor contact between CN-57(7) - CN-51(5) If not, defective cluster	Repair or replace
Defective solenoid	Replace
Defective controller	Replace
Disconnection in wiring harness or poor contact between CN-70(2) - Fuse No.2 If not, check the line cut between CN-70(1)-CN-52(13)	Repair

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

Does the TRAVEL SOLENOID state is changed when push the travel speed switch?
· I/O TEST function

Does the TRAVEL SOLENOID state stay ON continually when push the switch?

NO

YES

YES

NO

NO

YES

FUSE No.6

7

CN-36

CONTROLLER

13

CN-52

5

CN-51

4
5

CN-11

7

CN-8

CLUSTER

7

CN-57

TRAVEL SOLENOID

1
2

CN-70

6. ENGINE DOES NOT STOP, WHEN TURN THE START 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
Defective fuel cut-off solenoid	Replace
Defective start key switch or the line, between CN-79-CS-2(3), is contacted to the power wire harness	Check and repair

Does the NO KEY ON POWER is displayed when turn the start key off?

· SELF DIAGNOSIS function

YES

NO

START KEY SWITH

1	B+
3	IG
5	START

CS-2

| 3 | |
| 1 | |

CN-36

FUSE No.2

| 1 | |

CN-38

FUSE No.16   24V

FUEL CUT-OFF

CN-79

| 3 | |
| 1 | |

CN-1

STARTER

START RY

| B+ |
| M |

| 1 | |
| 2 | |

CR-23

CN-45