SERVICE MANUAL

E80MSR
Excavator

Print No. 604.13.421

NEW HOLLAND CONSTRUCTION

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1. OUTLINE

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Unit : mm (ft-in)

Code	Item		Dimension		Code	Item	Dimension	
C	Arm length		1,800 (5'-11")	2,070 (6'-9")	L	Arm top end	180 (7.09")	←
D	Distance between pins of boss and bracket	A point	R483 (19.0")	R498 (19.6")	M	Boss width	210 (8.27")	←
		B point		R495 (19.5")	N	Bracket inner width	100 (3.94")	←
D1	I.D of boss		Ø65 (2.56")	←	O	Bracket inner width	90 (3.54")	←
D2	I.D of boss		Ø60 (2.36")	←	P	Link dimension	436.5 (17.2")	←
D3	I.D of boss		Ø75 (2.95")	←	Q	Link dimension	380±0.5 (14.7"±0.0197")	←
E	Distance between pins of boss and bracket		R1,512.5 (4'-12")	←	R	Height between pins of boss and center	15 (0.591")	←
F	Distance between of boss and boss		R240 (9.45")	←	d1	Pin dia.	Ø50 (1.97")	←
G	Height between pins of boss and bracket		406.7 (16.01")	←	d2	Pin dia.	Ø50 (1.97")	←
H	Height between pins of boss and bracket	A point	195 (7.68")	308.5 (12.1")	d3	Pin dia.	Ø60 (2.36")	←
		B point		222.5 (8.76")	d4	Pin dia.	Ø60 (2.36")	←
J	Arm top end width (with bushing)		180 (7.09")	←	d5	Pin dia.	Ø50 (1.97")	←
K	Boss width		162 (6.38")	←				

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23.2.8-1 UNDER FLOOR HARNESS: (2/2)

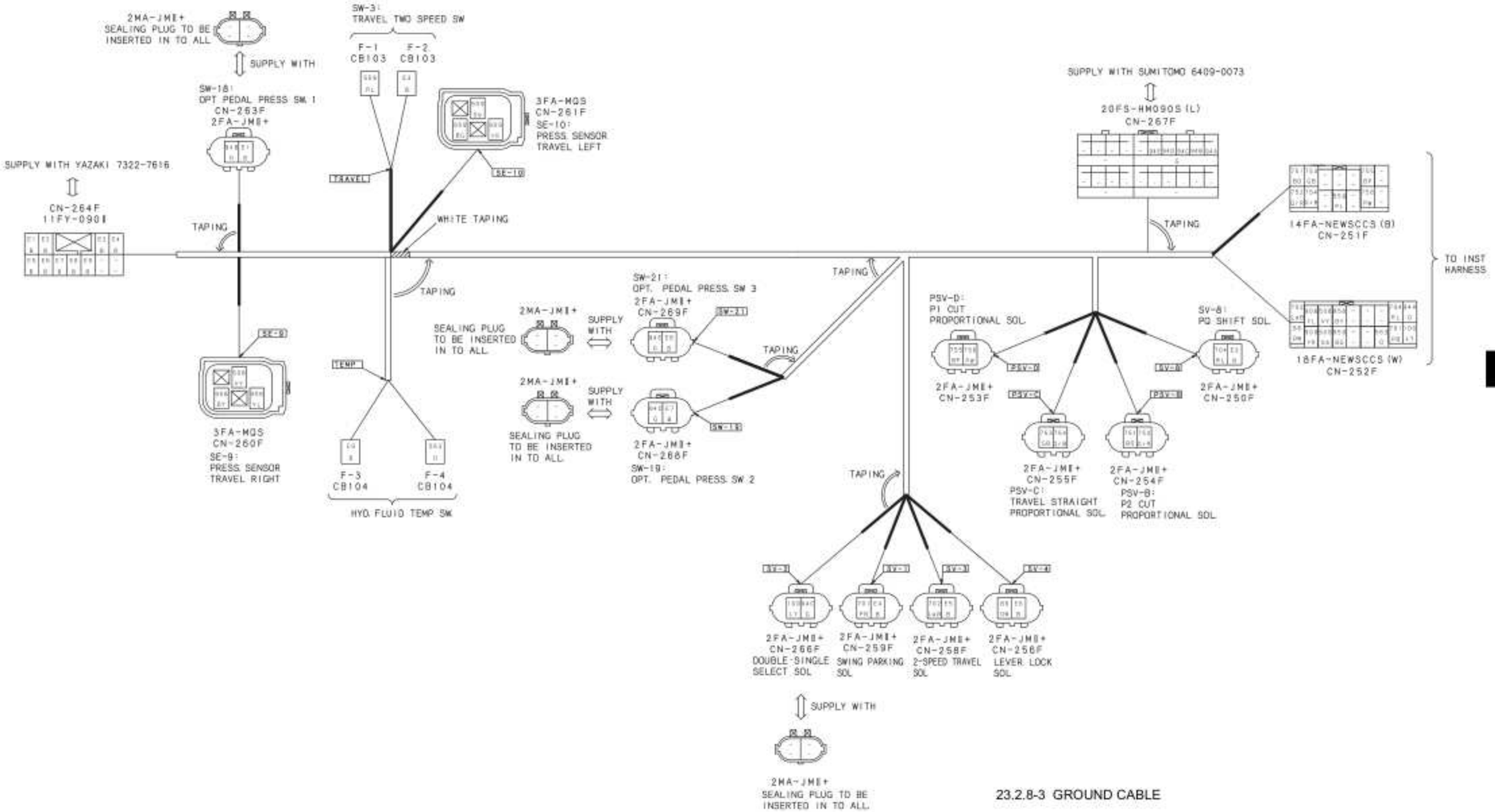


Fig. 23-13 Under floor harness (2/2)

23.2.8-3 GROUND CABLE

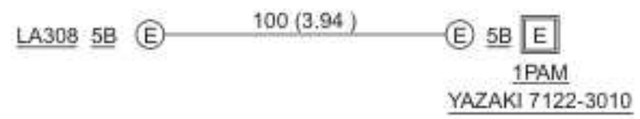


Fig. 23-34 Ground cable

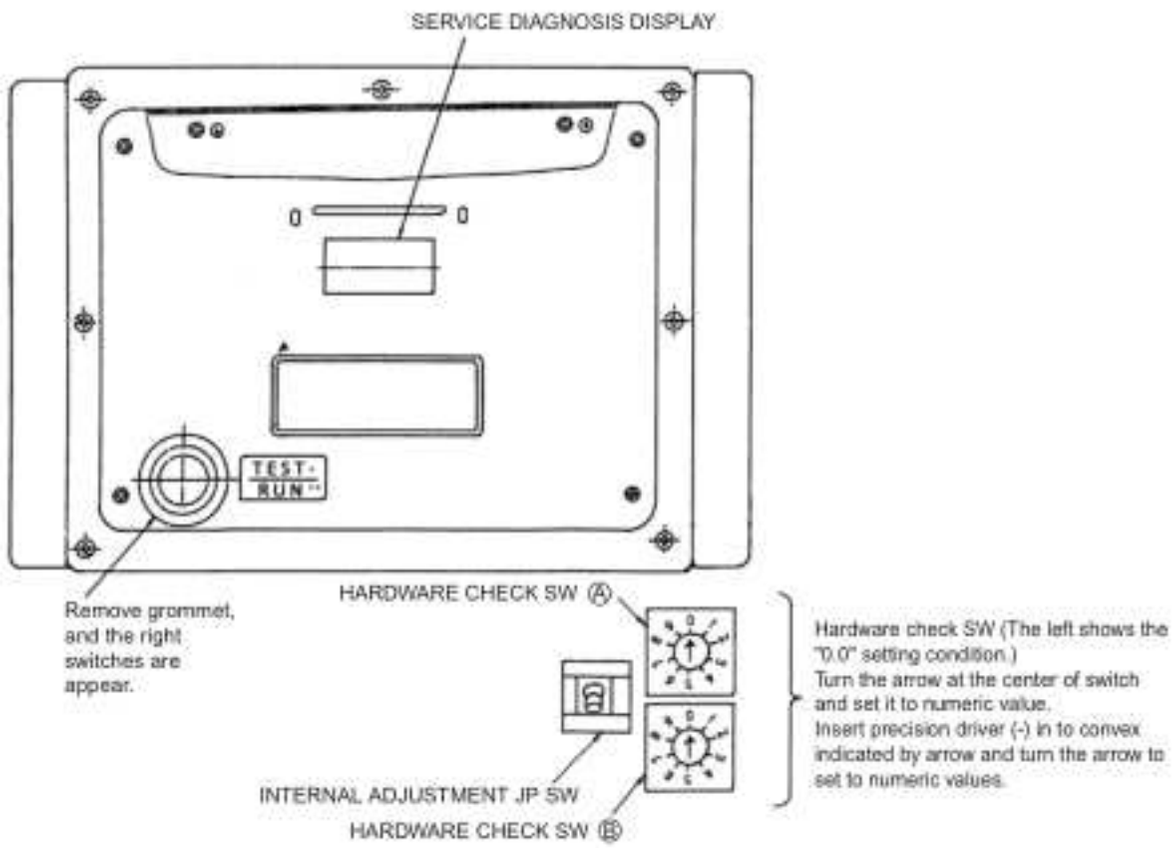
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43.2 CONTROLLER ERROR CODE DISPLAY

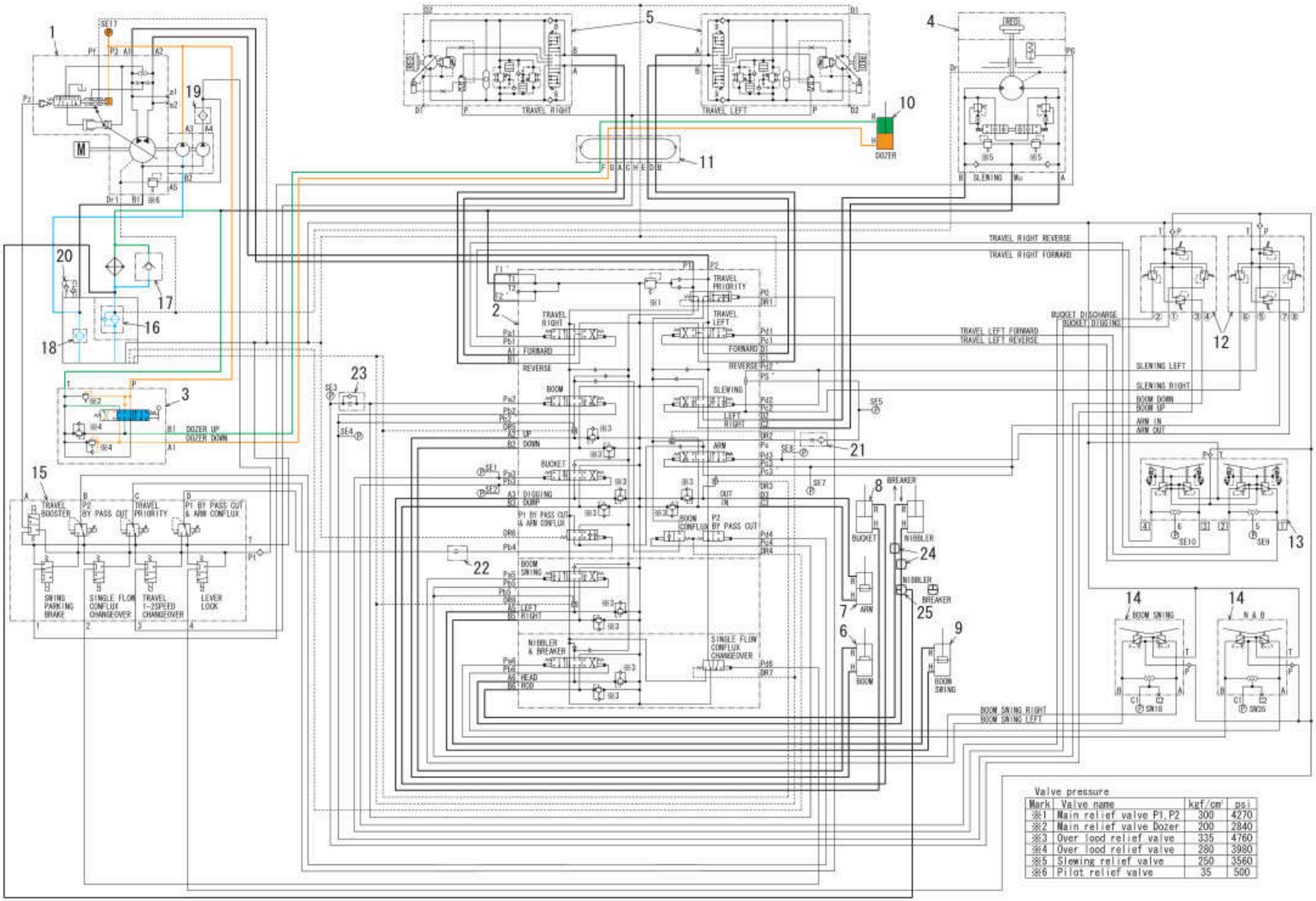
When the hard check switch of the controller is set to "00" (The machine is tuned to "00" at shipment.), faults of devices and harnesses connected to them are listed as below. When an error code is displayed, the CPU lamp on the gauge cluster flickers and the buzzer blows intermittently. In some cases, the CPU lamp on the gauge cluster lights continuously and the buzzer sounds continuously. This is to indicate a fault on the controller itself.

1. Trouble diagnosis

Error code	Trouble diagnosis item	Corrective action
E01	EEPROM data faulty	Readjust engine speed or replace controller
E02	Mechatronic adjustment faulty	
E03	Fault on boom raise pressure sensor	Replace sensor or inspect harness between sensor and controller.
E04	Fault on boom lower pressure sensor	
E05	Fault on arm in pressure sensor	
E06	Fault on arm out pressure sensor	
E07	Fault on bucket digging pressure sensor	
E08	Fault on bucket dump pressure sensor	
E09	Fault on slewing pressure sensor	
E10	Fault on P3 pump pressure sensor	
E11	Fault on travel right pressure sensor	
E12	Fault on travel left pressure sensor	
E13	Accel dial faulty pressure sensor	
E14	Fault on travel boost-up solenoid valve	Replace selector valve or inspect harness between selector valve and controller.
E15	Fault on slewing parking selector valve	
E16	Battery relay faulty	Replace battery relay or inspect harness between battery relay and controller.
E17	Fault on P1 by-pass cut proportional valve	Replace proportional valve or inspect harness between proportional valve and controller.
E18	Fault on P2 by-pass cut proportional valve	
E19	Fault on travel straight proportional valve	
E20	Fault on governor motor current	Replace governor motor or inspect harness between governor motor and controller.
E21	Fault on governor motor starting point	
E22	Reverse rotation of engine	Replace engine hydraulic switch or inspect harness between engine oil switch and controller.



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Valve pressure

Mark	Valve name	kgf/cm²	psi
※1	Main relief valve P1, P2	300	4270
※2	Main relief valve Dozer	200	2840
※3	Over load relief valve	335	4760
※4	Over load relief valve	280	3980
※5	Slewing relief valve	250	3560
※6	Pilot relief valve	35	500

Dozer circuit : Dozer down operation

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