CX55B
Tier 4
Crawler Excavator

PIN NETN55001 - PS04-10001 and above

SERVICE MANUAL

Part number S5PS0013E01
1st edition English
March 2014

CASE CONSTRUCTION

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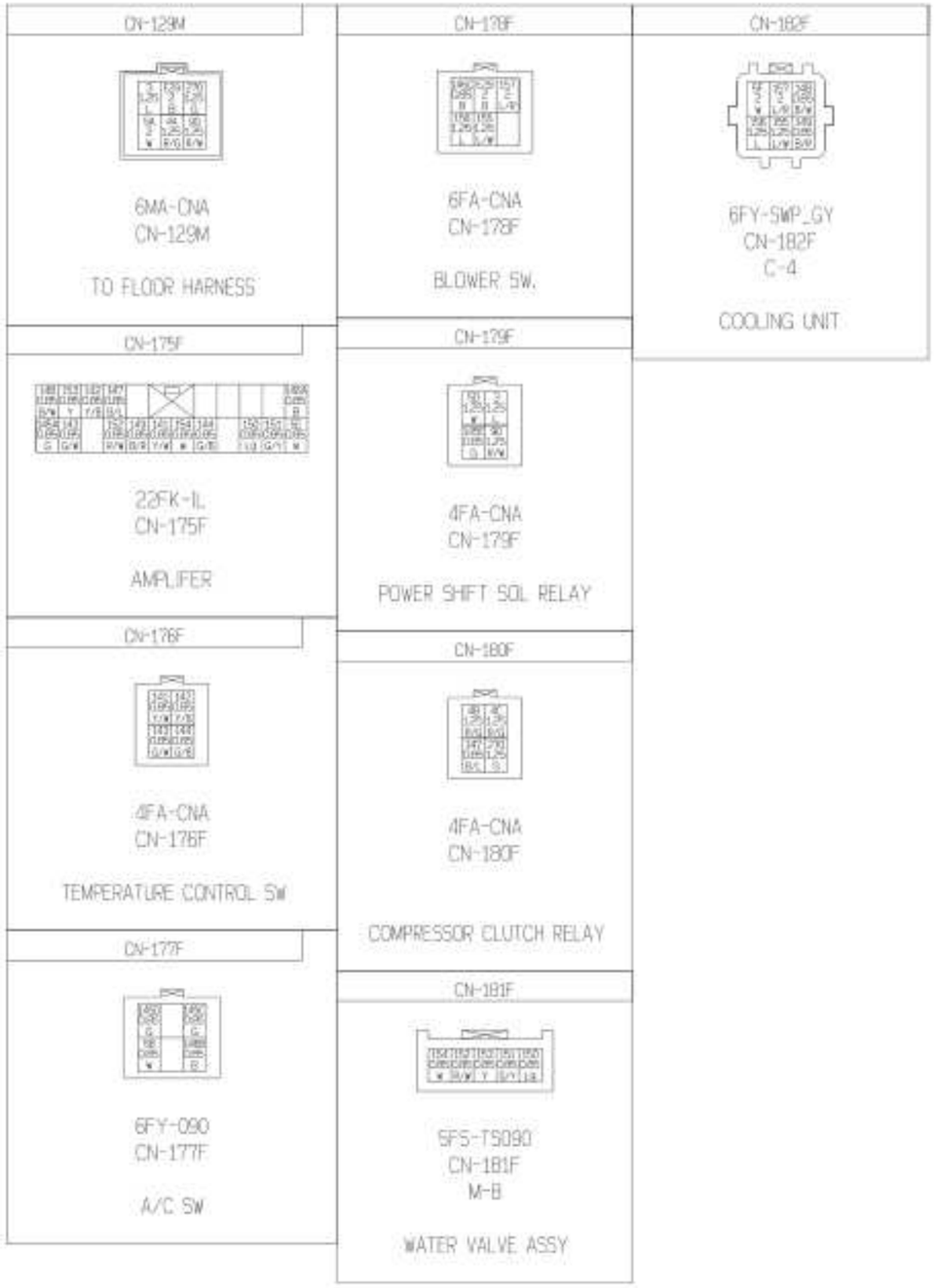
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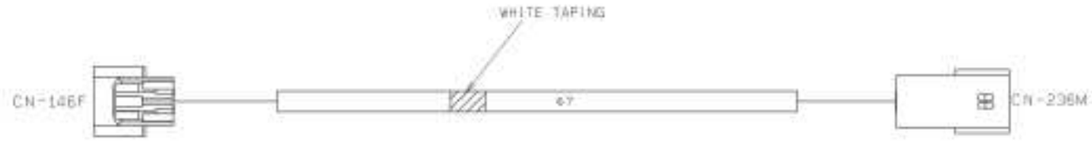
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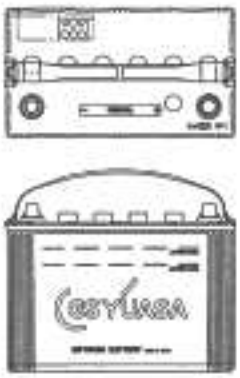
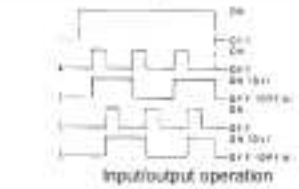
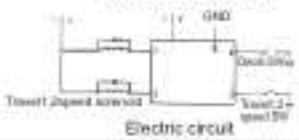
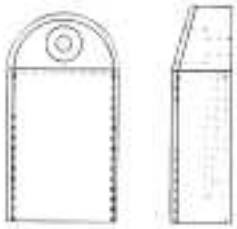
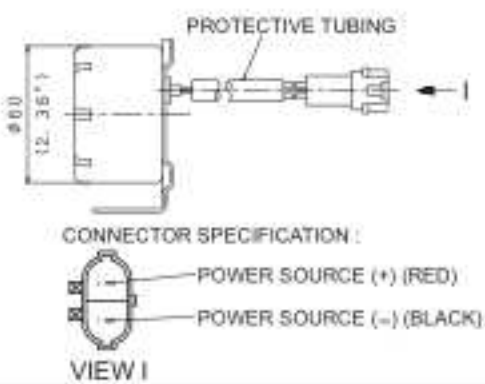


CONNECTORS SELECTION TABLE

CONNECTER NAME (PIN NUM.)	MANUFAC.	PART NUMBER	
		HOUSING	TERMINAL
2MA-JM2	AMP	174354-2	171661-1
2FS-D090	SUMITOMO	6189-0094	1500-0110

WIRE NO.	WIRE COLOR	WIRE SIZE (mm²)	FROM	CONNECTION	TO
93	L	AVSS1.25	CN-146F	———	CN-236M
270	G	AVSS1.25	CN-146F	———	CN-236M

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Code No. Parts Name Parts No. Use Applicable Machine	Specifications	Description
E-10 Tuner YN54S00045P2 Radio (OPT) PS02-00101~ PS04-10001~	Part name: AM/FM radio	
E-13 Battery PH72S00007P1 Power source PS04-10001~	Type: 115D31L Rated voltage: DC12V Capacity: 72Ah/5HR Weight: Approx. 21.4kg (47 lb)	
E-14 Relay PA24S00002P3 Sequence (Holding circuit) PJ06-08001~ PJ06-08890~ PJ06-09807~ PS02-00101~ PS04-10001~	Rated voltage: DC12V  Input/output operation  Electric circuit	  Pin arrangement
E-20 Travel alarm PW53S00002F1 Warning sound PJ06-08001~ PJ06-08890~ PJ06-09807~ PS02-00101~ PS04-10001~	Maker's Part No.: MAZIMA BA-102-12V Rated voltage: DC12V (Usage range): 9~15V Rated current: Max 0.3A at rated voltage Sound pressure at rated voltage: 102 ± 4dB (Distance 1 m) AMP ECONO SEAL MARK II WATER PROOF HOUSING : 174354-2 TERMINAL : 171661-1 HARNESS SEAL : 176886-2 RETAINER : 1-174355-1	

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46. TROUBLE SHOOTING (OPT.) (BY ERROR CODES)

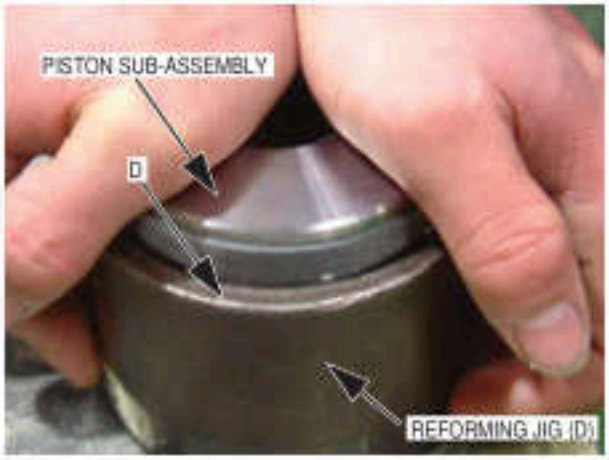
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3. The O-ring of seal ring was extremely stretched at the installation, insert the piston subassembly from the taper side of reforming jig (D) to reform the ring.



(4) Assembly of piston rod

1. Keep clevis of piston rod (2) horizontal, and install the head sub-assembly.
   -Apply hydraulic oil to seal slightly.
   -Take care not to hit the seal against the thread of piston rod.



2. Face the slit of seal ring (12) to the thread, and install the seal ring into groove of piston rod.
   Install the cushion bearing (5) on the rod from taper side as shown in the photo.
   -Take care of the direction of seal ring and cushion bearing.
   If the direction is mistaken, the cushion effect is not obtained.





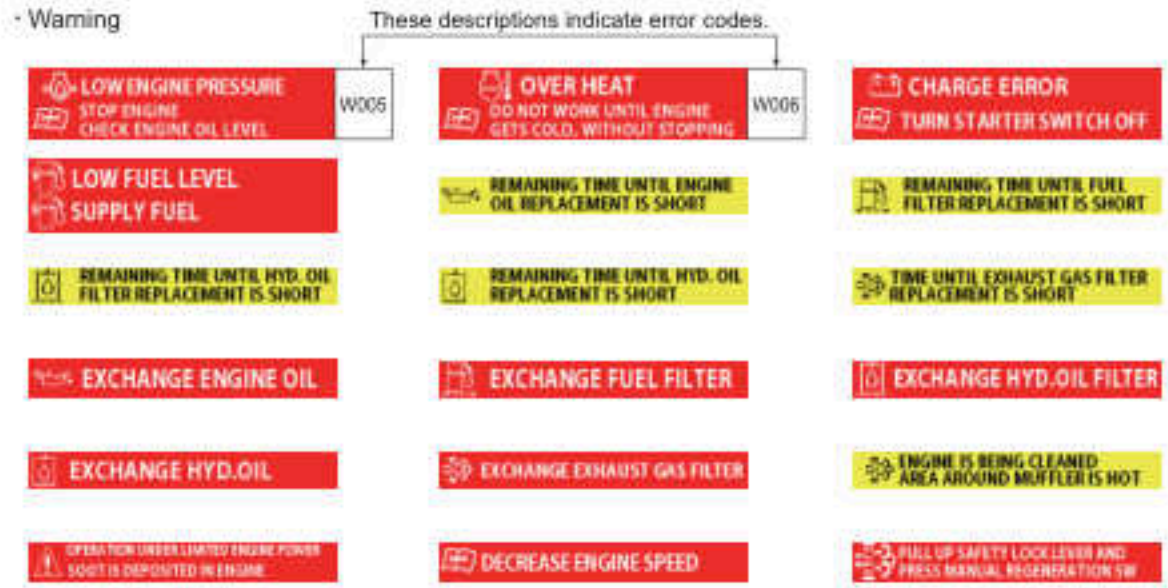
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(7) Gauge Cluster Display Details

The screen for the operator is displayed on the multi-display following the logo mark display, after the key is turned on. The multi-display has the following functions.



1. Display function for operator ----- Normally, this is displayed during operation.
 1.1 Time display ----- Displays the current time.
 1.2 Self-diagnosis display ----- If a failure is detected in the mechatronic system such as a sensor, the machine status and error code are displayed on the upper part, and the instruction is displayed on the lower part.
 1.3 Warning display ----- When the machine is in an unsafe condition or a failure occurs, the warning information is displayed with the symbol and text.



Notice

Error codes are stored as a failure history, and are displayed by the failure history display function on the multi-display.

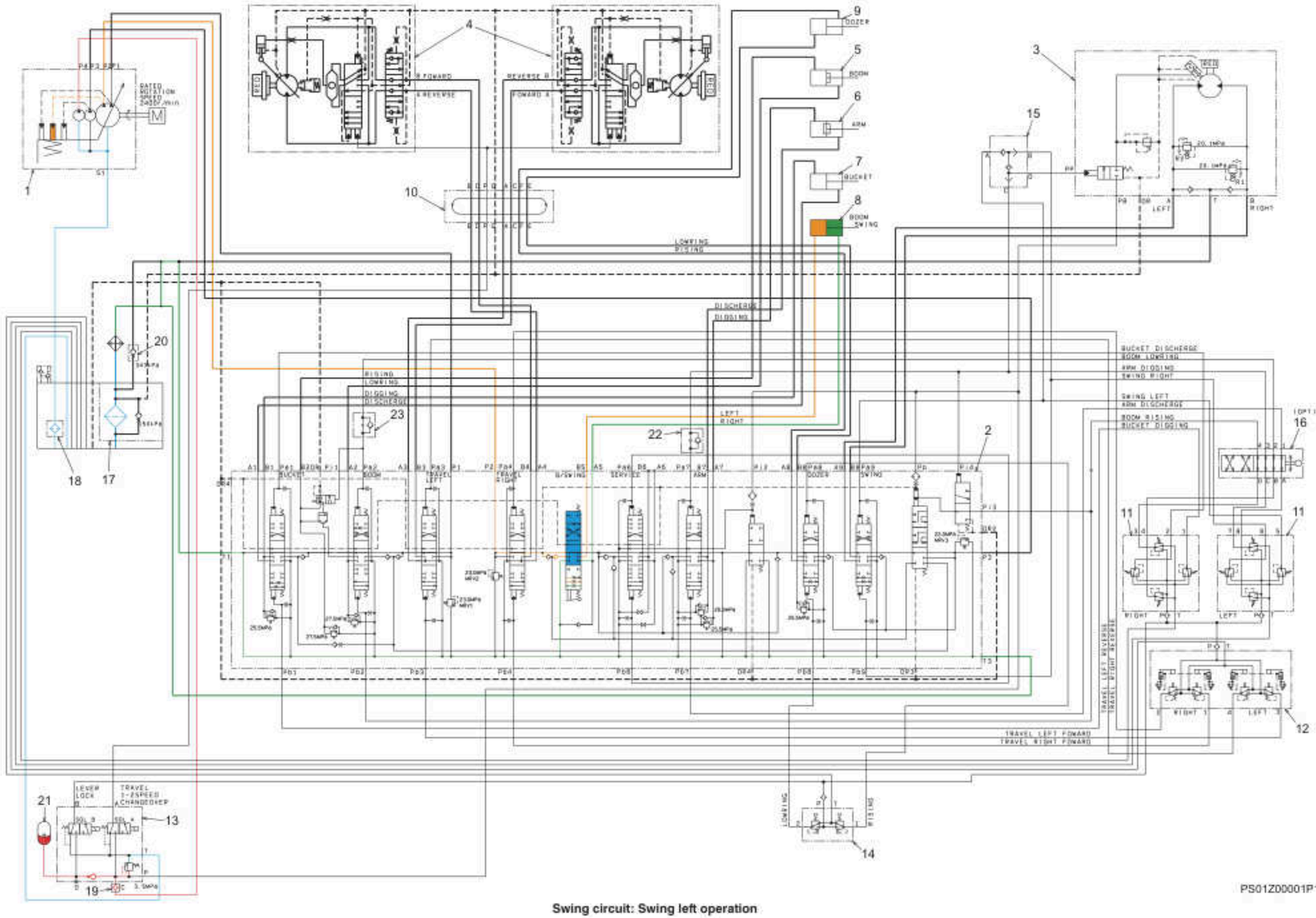
1.4 Shovel status display ----- Displays the shovel operating status.

2. Maintenance display function ----- The remaining time to the replacement time of the following maintenance items is displayed by pressing the menu switch and selecting "MAINTENANCE" from the user menu.
(1) Engine oil (2) Fuel filter (3) Hydraulic oil filter (4) Hydraulic oil (5) Exhaust gas filter (Only Tier4 machine)

3. Failure history display ----- Displays the stored past failures of mechatro system in the reverse chronological order by operating the starter key switch and buzzer stop switch.

4. Service diagnosis display ----- Displays information from the mechatro controller such as a value detected with the pressure sensor by operating the starter key switch and buzzer stop switch.

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PS01Z00001P1 03

Swing circuit: Swing left operation

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