KOBELCO

SERVICE MANUAL

EXCAVATOR DOZER

ED150
BLADE RUNNER

ACERA SR

TIER 3

87480999 NA

Issued 01June 08

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ED150 BLADE RUNNER ACERA SR SERVICE MANUAL

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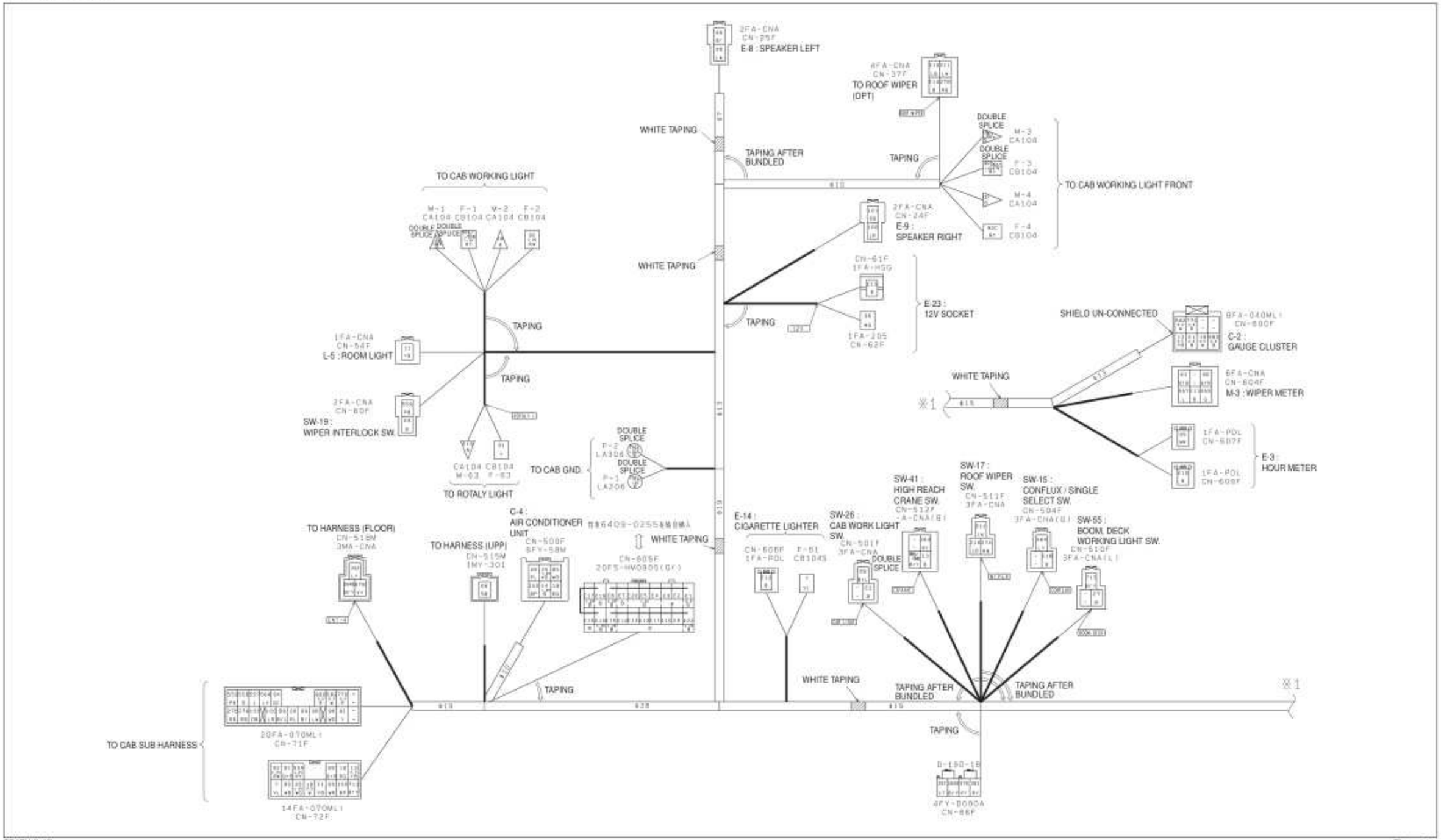
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Cab Harness (1/2)



GRAPHIC_1D

Figure 50

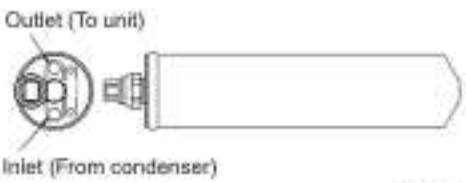
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File No. Name of part Part No. Use Applicable Machine	Specification	Description

E - 10
Receiver dryer
Air-con

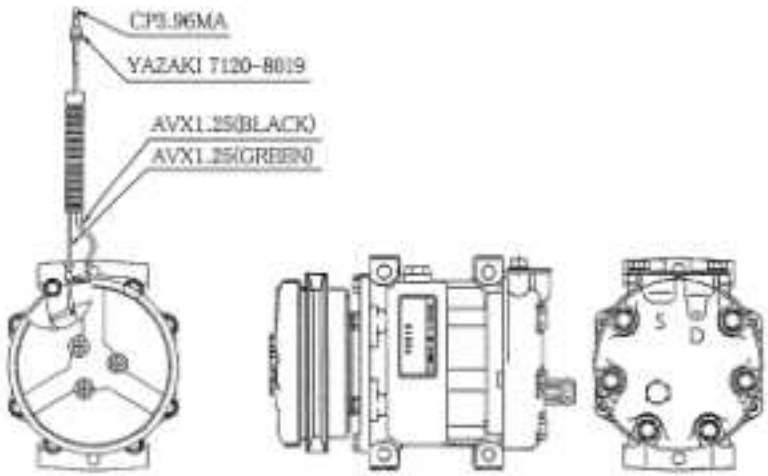
Maker	Sanden Corp.
Airtight test pressure	3.5MPa (508 psi)
Pressure proof test pressure	5.3MPa (769 psi)
Breaking test pressure	9.8MPa (1420 psi)
Desiccant moisture adsorption capability	17% or over than the weight of desiccant (Include intial absorption 2%)
Refrigerant	HFC-134a
Inner volume/Desiccant	578cm^3/300g



GRAPHIC_1D
Figure 119

E - 11
Air-con compressor
Air-con

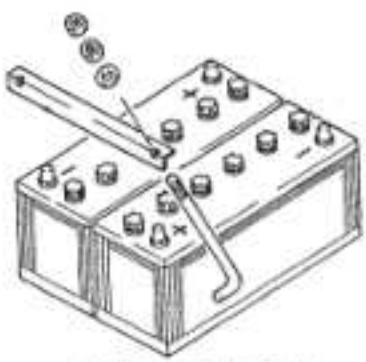
Maker's part No.	7360-6000
Rated voltage	DC24V
Max. revolution	4000rpm
V belt	Type B
Refregerant	R-134a
Oil	SP-20:135cc
Cover (Clutch)	



GRAPHIC_1D
Figure 120

E - 12
Battery
Power

Type		95E41R-N100
Voltage		12V
Capacity (Ah)	5HR	80Ah
	20HR	100Ah
Weight		26kg (57 lbs)



GRAPHIC_1D
Figure 121

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Table 65

Error code	E042		
Trouble	OPT relief 2 proportional valve and output transistor ON are failure.		
Judging condition	The feed-back value from proportional valve is 1000mA or more.		
Symptom	Electromagnetic relief valve is disabled.		
Control in the event of failure	Normal control		
Returned in normal condition	Not returned automatically under normal condition. Switch the power OFF once and turns on it again.		
Service diagnosis checking screen	Screen No.	7	E-4 OPT RELIEF 2
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	OPT relief 2 proportional valve PSV-I		When E042 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it. When replacing of connector is executed, turn off power source once.
2	Wiring between OPT relief 2 proportional valve and controller CN-132F CN-106F		When E042 is displayed after turning the starter switch on after the connector is exchanged with other sensor. Check wiring for possible failure according to the wiring checking procedure and repair it if necessary. When replacing of connector is executed, turn off power source once.
3	Mechatro controller		Check that the error is corrected after replacement of controller.

Table 66

Error code	E043		
Trouble	OPT relief 2 proportional valve's wiring is disconnected.		
Judging condition	The feed-back value from proportional valve is 100mA or less. (If output is 150mA or less. judging is not done.)		
Symptom	Electromagnetic relief valve is disabled.		
Control in the event of failure	Normal control		
Returned in normal condition	Not returned automatically under normal condition. Switch the power OFF once and turns on it again.		
Service diagnosis checking screen	Screen No.	7	E-4 OPT RELIEF 2
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	OPT relief 2 proportional valve PSV-I		When E043 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it.
2	Wiring between OPT relief 2 proportional valve and controller CN-132F		When E043 is displayed after turning the starter switch on after the connector is exchanged with other sensor. Check wiring for possible failure according to the wiring checking procedure and
3	Mechatro controller		Check that the error is corrected after replacement of controller.

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9. Remove fulcrum plug and feedback lever
   Remove fulcrum plug (614) and feedback lever (611).


GRAPHIC_ID Figure 119

10. Drawing out the spool and the sleeve.
    Draw out spool (652) and sleeve (651) from the sleeve hole of the regulator casing.


GRAPHIC_ID Figure 120

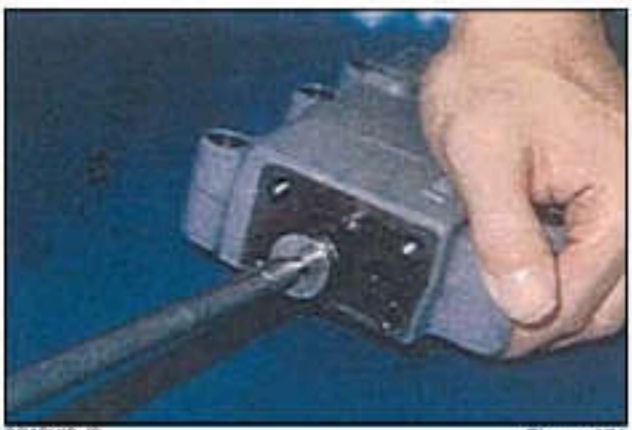
11. Remove plunger, pilot spring and spring seat
    Draw out plunger (627). Then take out pilot spring (646) and spring (624).

NOTE: *The plunger comes off easily if an M4 bolt is used.*

12. Drawing out the check valve
    The disassembly is complete when the check valve [seat (541), ball (545), and stopper (543)] have been drawn out.

NOTE: *The check valves are placed on two places; the mating surface of the pump casing and on the matching surface of the valve casing.*

IMPORTANT: *Do not lose the parts because they are small.*


GRAPHIC_ID Figure 121

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⚠ CAUTION

About warning labels

Maintenance of warning labels

Make sure all warning/caution labels are legible.

Clean or replace the warning/caution labels when the description and/or illustration are not clear to read.

For cleaning the warning/caution labels, use a cloth, water and soap. Do not use cleaning solvents, gasoline or other chemicals to prevent the letters from getting blurred or the adhesion from being weakened.

Replace damaged or fractured labels with new ones.

If any engine part on which a warning label is attached is replaced with a new one, attach a new identical warning label to the new part.

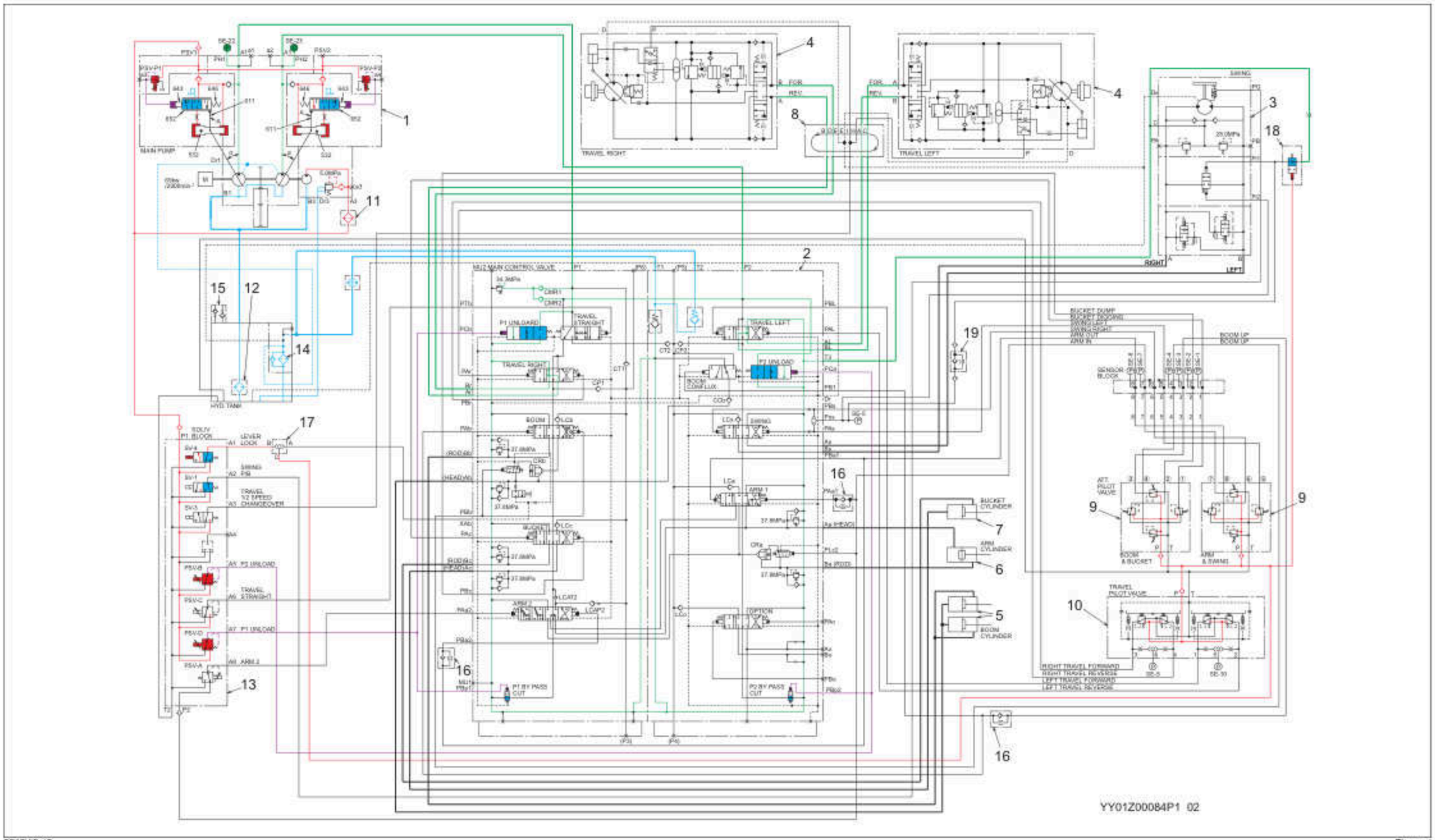


Warning labels

X

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SECTION 3 - SYSTEMS
CHAPTER 2 - HYDRAULIC SYSTEM



GRAPHIC_10

Figure 4

NEUTRAL CIRCUIT : POSITIVE CONTROL FUNCTION AT SAFETY LOCK LEVER DOWN (UNLOCKED POSITION)

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