CRAWLER EXCAVATOR

SERVICE MANUAL

HX40A

HYUNDAI

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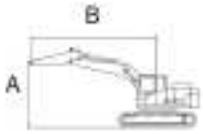
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4) STEEL TRACK WITH ANGLE DOZER BLADE

Model	Type	Boom	Arm	Counterweight	Rubber shoe	Wheel	Dozer		Outtriger	
HX40A	Cab	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		2600	1600	300	350	-	Up	-	-	-

- : Rating over-front - : Rating over-side or 360 degree



Load point height (A)		Load radius (B)								At max. reach		
		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg									960	850	3.62
	lb									2120	1870	(11.9)
3.0 m (9.8 ft)	kg							820	730	710	640	4.35
	lb							1810	1610	1570	1410	(14.3)
2.0 m (6.6 ft)	kg					*1220	1100	810	720	620	550	4.72
	lb					*2690	2430	1790	1590	1370	1210	(15.5)
1.0 m (3.3 ft)	kg					1180	1030	780	690	590	530	4.81
	lb					2600	2270	1720	1520	1300	1170	(15.8)
Ground Line	kg			*1480	*1480	1140	990	750	670	610	540	4.66
	lb			*3260	*3260	2510	2180	1650	1480	1340	1190	(15.3)
-1.0 m (-3.3 ft)	kg	*1680	*1680	2170	1800	1130	980	750	660	700	620	4.22
	lb	*3700	*3700	4780	3970	2490	2160	1650	1460	1540	1370	(13.8)
-2.0 m (-6.6 ft)	kg	*3070	*3070	*2200	1840	1150	1000			980	860	3.37
	lb	*6770	*6770	*4850	4060	2540	2200			2160	1900	(11.1)

Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *Indicates load limited by hydraulic capacity.

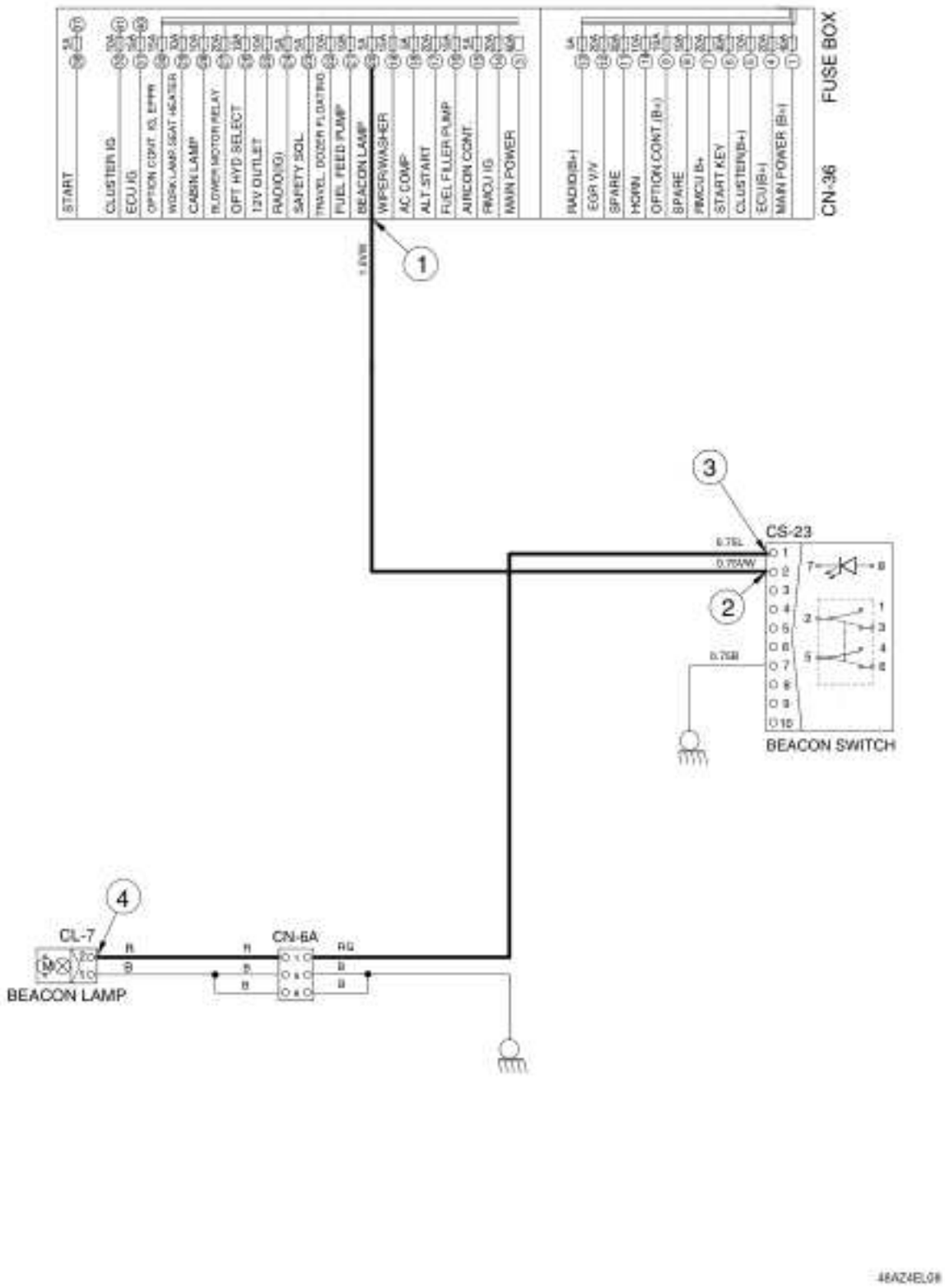
※ Lifting capacities are based upon a standard machine conditions.
Lifting capacities will vary with different work tools, ground conditions and attachments.
The difference between the weight of a work tool attachment must be subtracted.
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

※ Please be aware of the local regulations and instructions for lifting operations.

⚠ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

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BEACON LAMP CIRCUIT

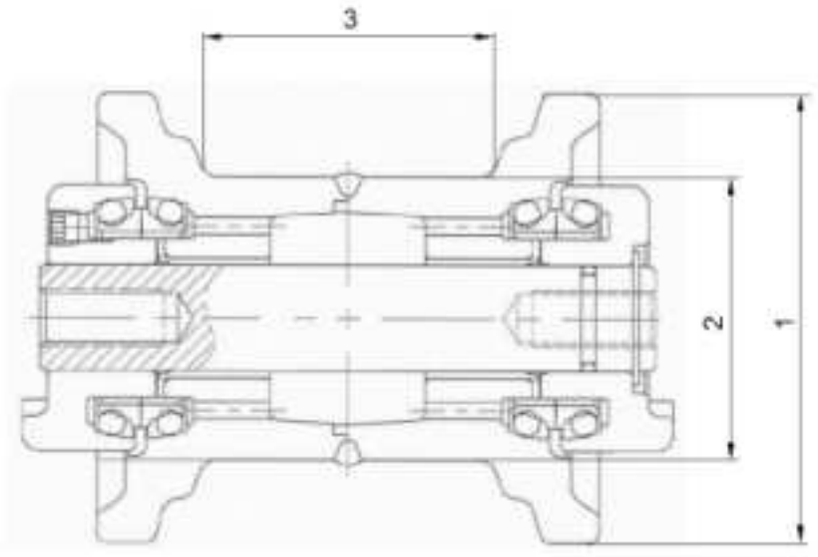


46AZ4EL08

※ The circuit diagram may differ from the equipment, so please check before a repair.

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3. TRACK ROLLER



35AZ0MC10

Unit : mm

No	Check item	Criteria		Remedy
		Standard size	Repair limit	
1	Outside diameter of flange	Ø127	Ø121	Rebuild or replace
2	Outside diameter of thread	Ø80	Ø74.0	
3	Width of flange	89	93	

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(4) Fit the O-ring (214) into the plug (221).



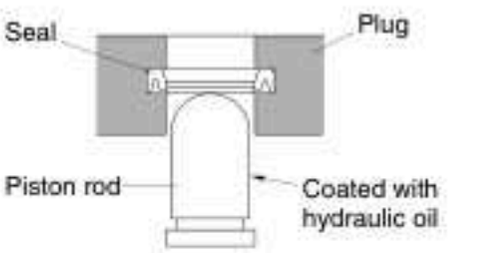
(5) Fit the seal (213) into the plug (211).

※ Fit the lip of the seal (213) as shown right.



(6) Fit the push-rod (212) into the plug (211).

※ Apply hydraulic oil to the surface of the push rod.



Push rod, plug & seals

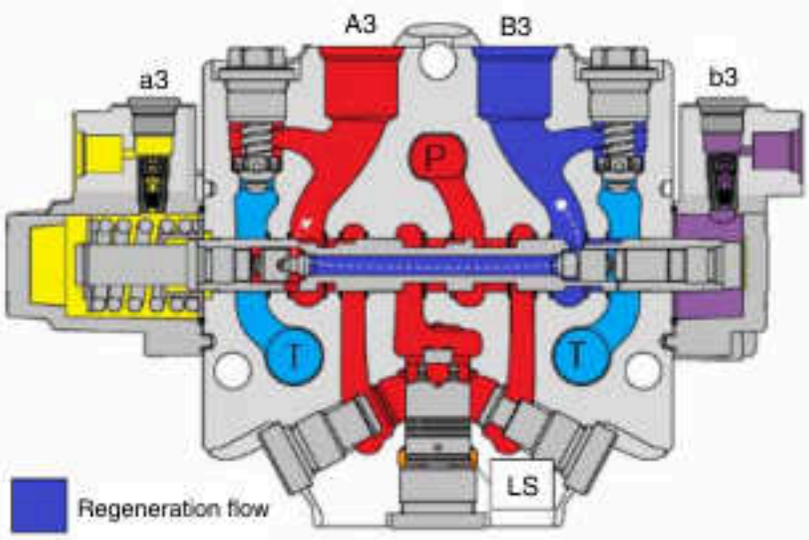


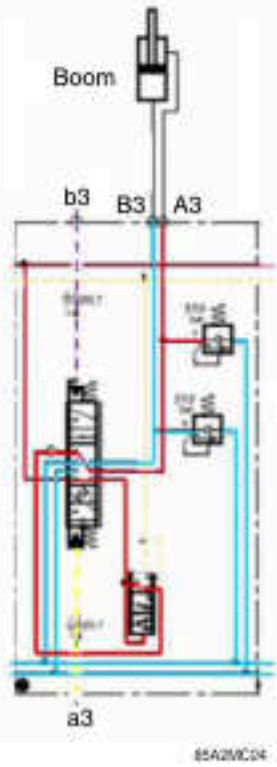


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(3) Boom section description

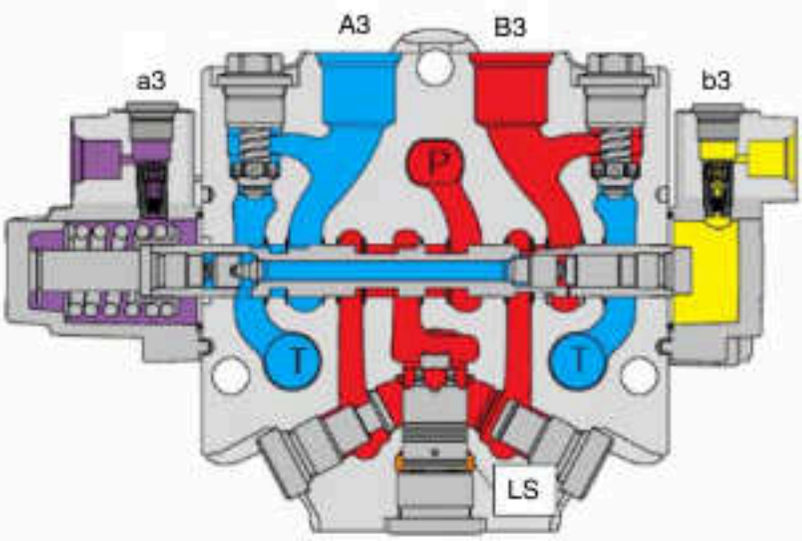
① Boom down position

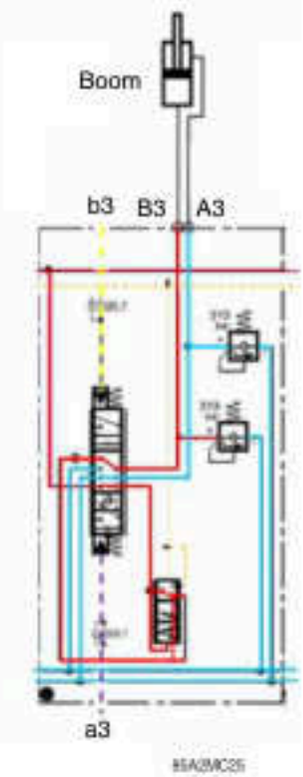




When the pilot pressure is led to the port a4, the oil from the pump flows to the cylinder port A4 and oil from the cylinder flows partially into the tank and partially trough regeneration path B to A through the cylinder port B4 .

② Boom up position

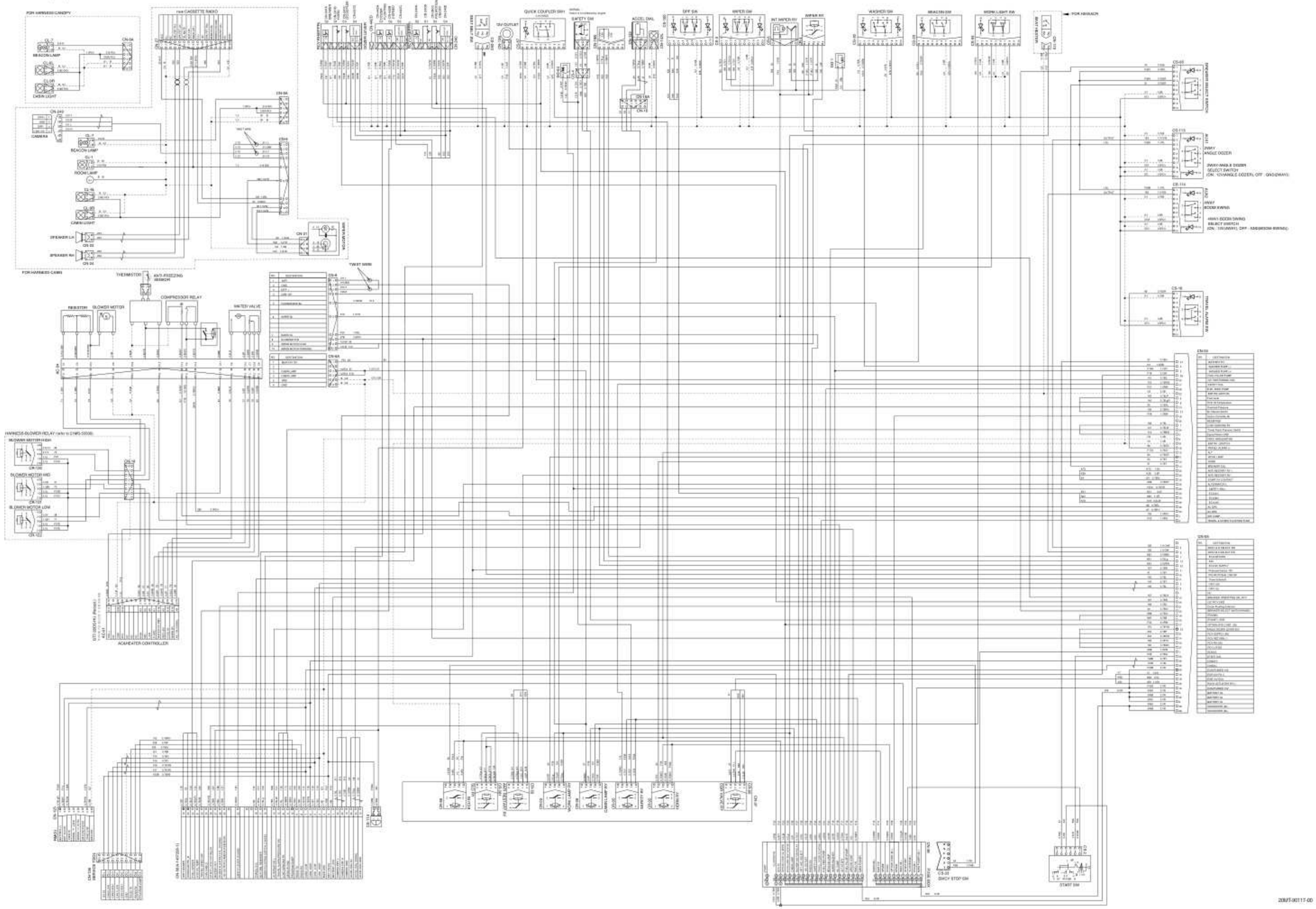




When the pilot pressure is led to the port b4, the oil from the pump flows to the cylinder port B4 and oil from the cylinder flows into the tank through the cylinder port A4.

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· ELECTRICAL CIRCUIT (1/2)


FOR HARNESS-CANOPY
BEACON LAMP
CABIN LIGHT
CAMERA
ROOM LAMP
SPEAKER LH
SPEAKER RH
FOR HARNESS-CAB(I)
rear CASSETTE RADIO
THERMISTOR
ANTI-FREEZING SENSOR
COMPRESSOR RELAY
RESISTER
BLOWER MOTOR
WATER VALVE
HARNESS-BLOWER RELAY (refer to 21MS-58008)
BLOWER MOTOR HIGH
BLOWER MOTOR MID
BLOWER MOTOR LOW
A/CHEATER CONTROLLER
TWIST SWRS
Quick COUPLER SW1
12V OUTLET
SAFETY SW
ACCEL DIAL
DPF SW
WIPER SW
INT WIPER RY
WIPER RY
WASHER SW
BRACKET SW
WORK LIGHT SW
FOR HANDLE
ANGLE DOZER
SELECT SWITCH
(ON : 12V(ANGLE DOZER), OFF : GND(2WAY))
HORN
BOOM WARN
SELECT SWITCH
(ON : 12V(AWAY), OFF : GND(BOOM WARN))
WORK LAMP RH
ECU
ENGINE CONTROL UNIT
ECU
ENGINE CONTROL UNIT
ECU
ENGINE CONTROL UNIT