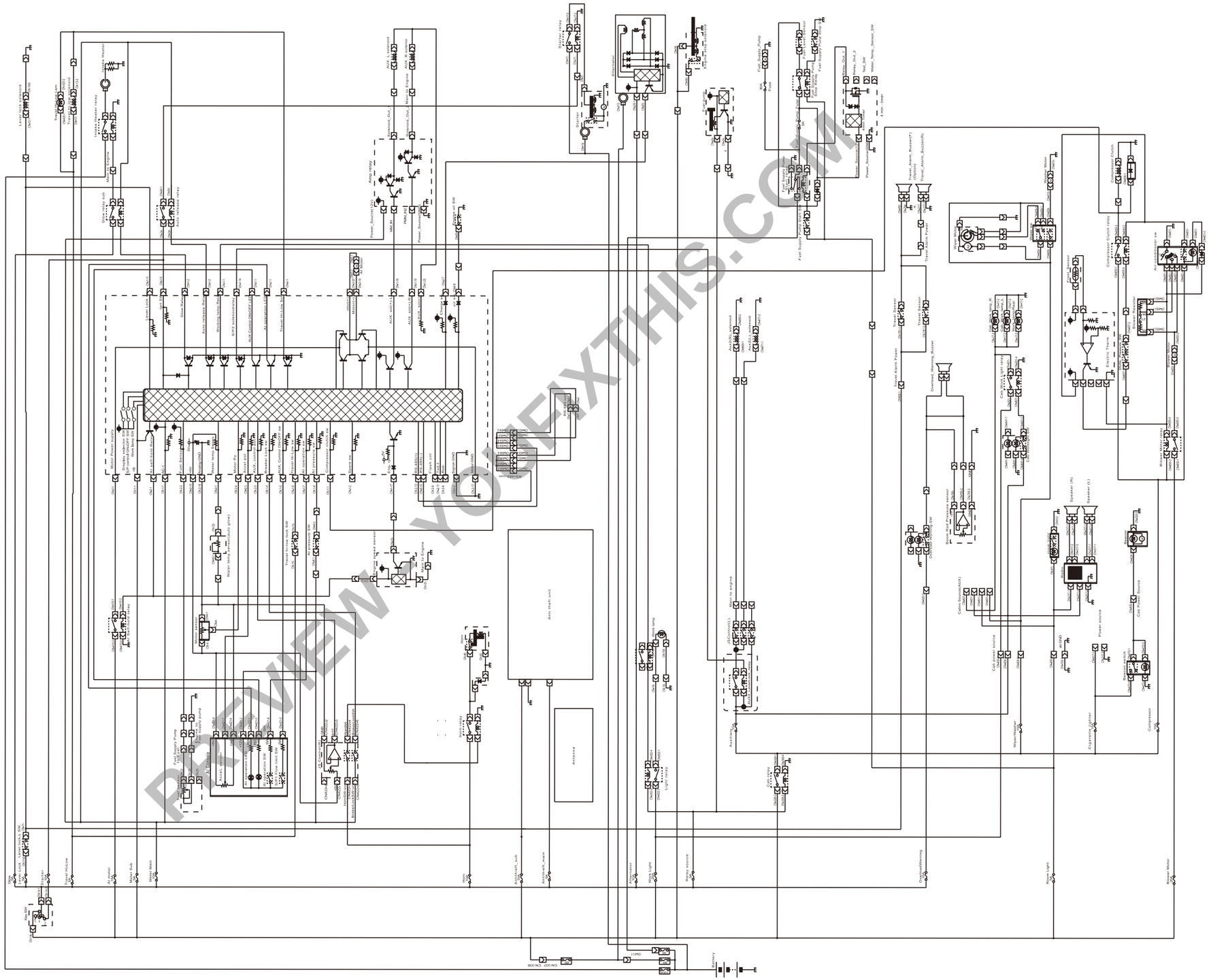
E.Electric circuit diagram

1.KX080-3 circuit diagram

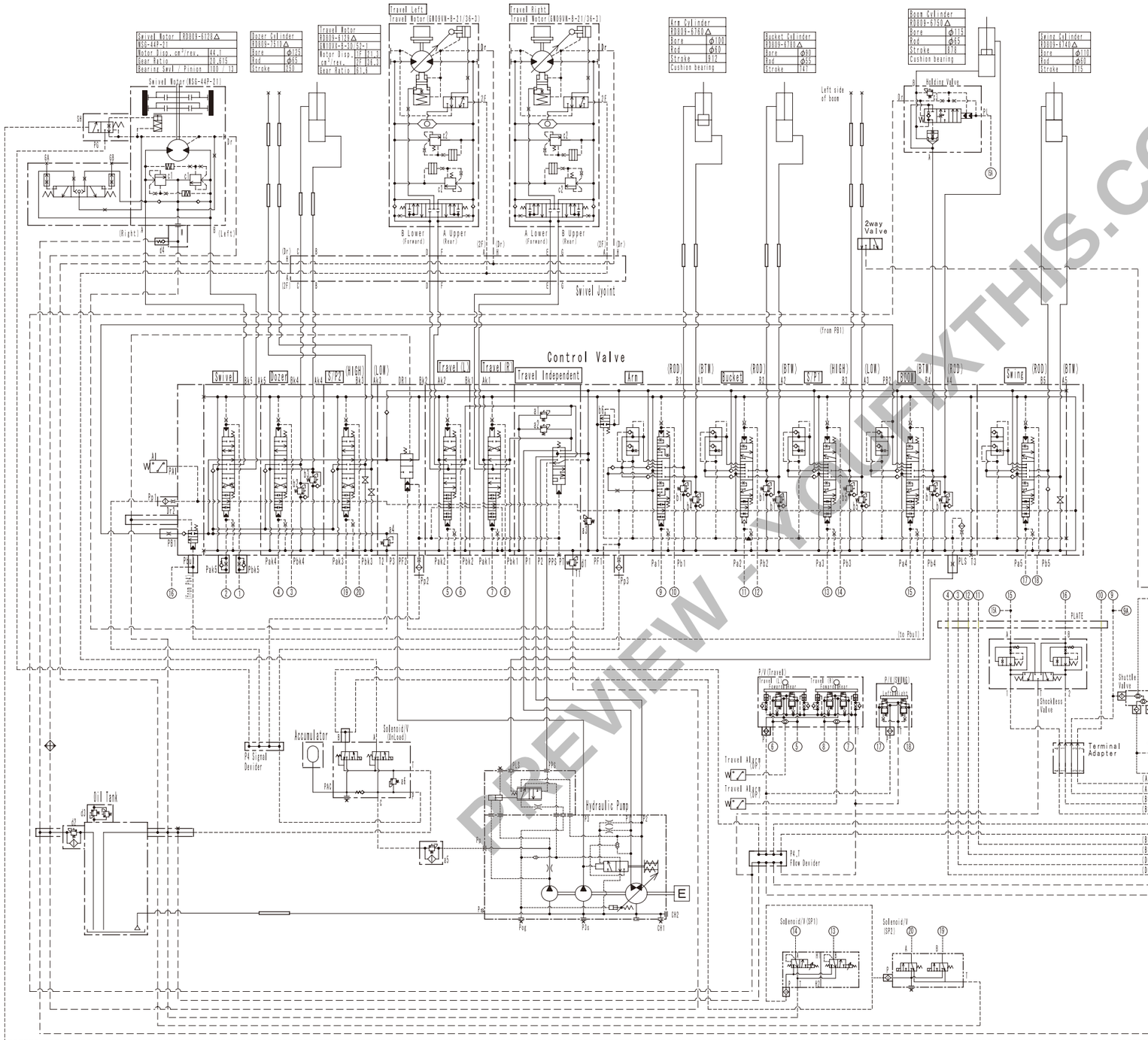


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c. Hydraulic Circuit Diagram

1. Circuit diagram, EU-version



(1) Swivel Right
(2) Swevel Left
(3) Dozer Up
(4) Dozer Down
(5) Travel Left Rear
(6) Travel Left Forward
(7) Travel Right Rear
(8) Travel Right Forward
(9) Arm Crowd
(10) Arm Dump
(11) Bucket Crowd
(12) Bucket Dump
(13) SP1, Right port
(14) SP1, Left port
(15) Boom Down
(15-A) Boom H/V PL
(16) Boom Up
(17) Boom Swing Left
(18) Boom Swing Right
(19) SP2, Right port
(20) SP2, Left port

Relief Pressure: MPa (Kgf/cm^2) PSI Bench set value

a1	29.4	(300)	4267	Main, Travel R
a2	29.4	(300)	4267	Main, Travel L
a3	27.4	(280)	3983	Main, LS system
a4	20.6	(210)	2987	Main, Pump 3
a5	0.2	(2)	28	Line filter
a6	3.9	(40)	569	Pilot primary
b1	31.4	(320)	4551	Boom,Arm rod, Bucket
b2	11.8	(120)	1707	Dozer rod
b3	27.4	(280)	3983	Dozer bottom
b4	30.4	(310)	4409	Arm bottom
b5	20.6	(210)	2987	SP 1
b6	1.96	(20)	284	LS unload valve

c1	21.6	(220)	3129	Swivel motor
c2	29.4	(300)	4267	Travel motor
c3	30.4	(310)	4409	Boom holding valve
d1	0.4	(4.0)	57	C/V back pressure
d2	1.5	(1.5)	21	Return filter
d3	0.07	(0.7)	10	Tank pressure
d4	0.1	(1.0)	14	Oil cooler

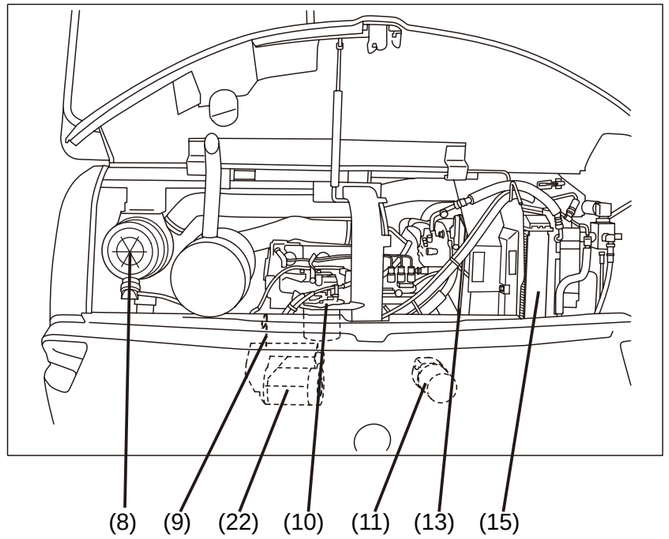
Pump DischargeAmount: PSVL2-36C-4

Pump		P1	P2	P3	P4
Engine speed	RPM	2000			
Discharge volume	cc/rev	36.0	36.0	33.3	8.1
	cu.in./rev	2.2	2.2	2.0	0.5
Delivery amount	LPM	72.0	72.0	66.7	16.2
	GPM	19.0	19.0	17.6	4.3

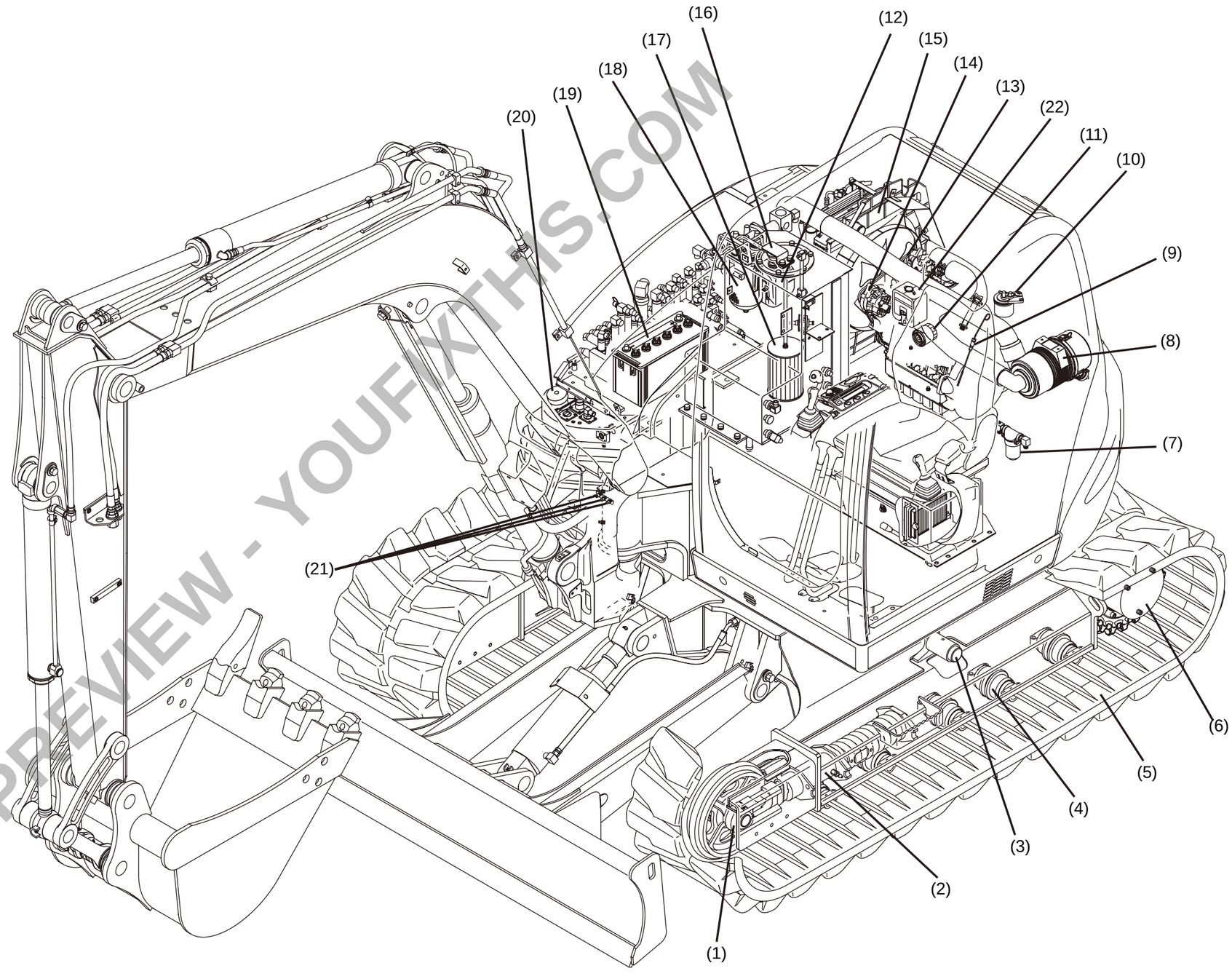
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B.Maintenence components layout

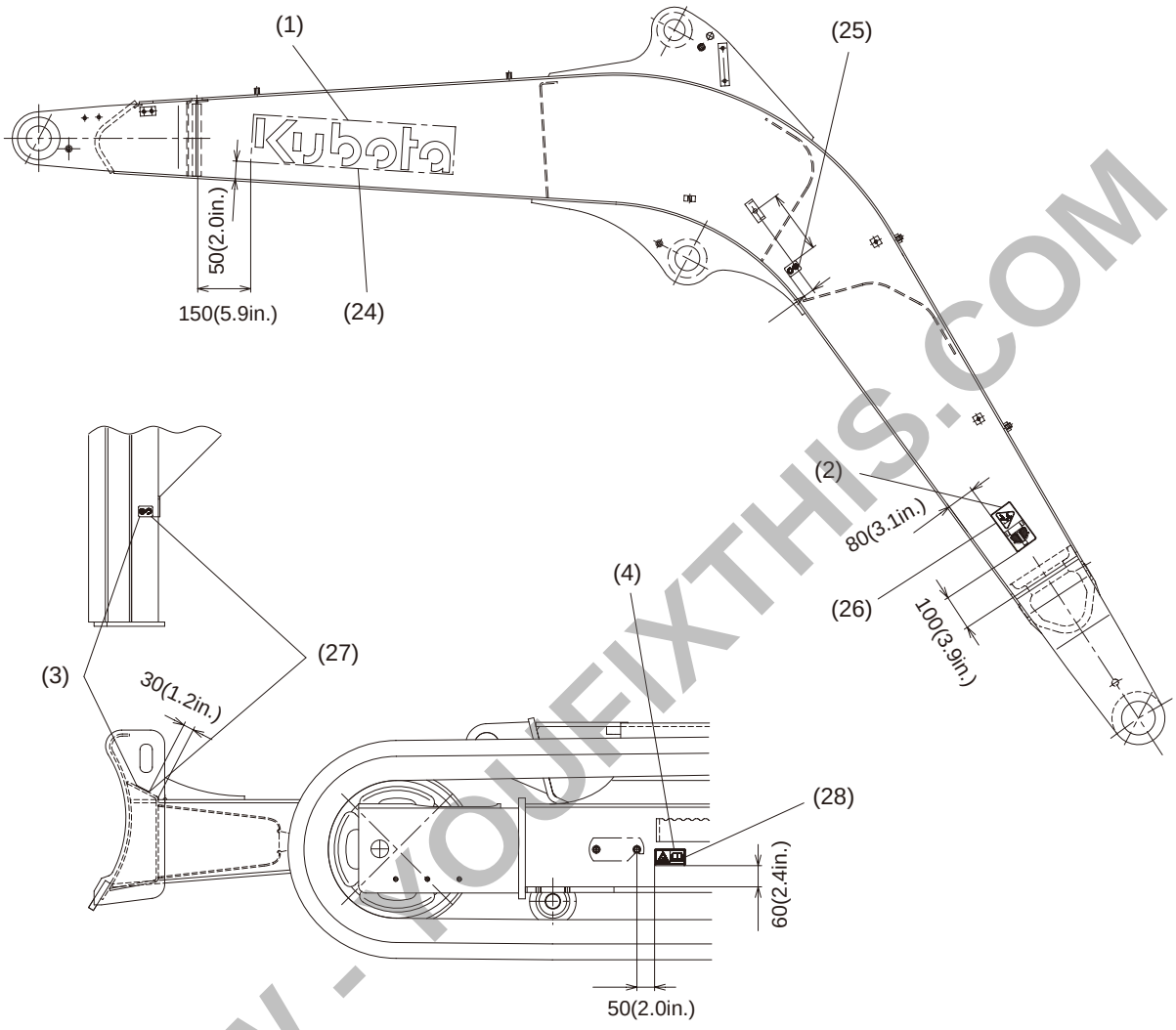


(1) Idler
(2) Grease tension cylinder
(3) Upper roller
(4) Track roller
(5) Rubber track
(6) Travel motor
(7) Pilot filter
(8) Air cleaner
(9) Oil gauge
(10) Fuel filter
(11) Engine oil filter
(12) Reserve tank
(13) Fan belt
(14) Alternator
(15) Radiator
(16) Oil tank
(17) Suction filter
(18) Return filter
(19) Battery
(20) Fuel tank
(21) Grease nipples
(22) Washer tank



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(24)Marking (Kubota 1)
(2 locations: on both sides)
(25)Label (hoisting)
(2 locations: on both sides)
(26)Label (swing caution)
(2 locations: on both sides)
(27)Label (hoisting)
(2 locations: on both sides)
(28)Label (plug)
(2 locations: on both sides)

(1)Apply the same way on the other side too.
(2)Apply the same way on the other side too.
(3)Apply the same way on the other side too.
(4)Apply the same way on the other side too.

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f. Failure Diagnosis

1. Failure display and diagnosis criteria

The following table 1 shows data on failure diagnosis, for operating mode and service mode.

Note:
- Display items of the system in service mode can be checked with the fail record.
- In the case of a warning for fuel scarcity, the buzzer will be turned ON for a moment at five-minute intervals.
- No.11 ~ 61 except 31, 32, 51, 52, 53, 54, 55 will be incorporatrd in future version machine, such as auto idle (AI) model, anxilliary port (AUX) model and anti - theft system model.

Table 1. Failure diagnosis

Display		Buzzer	Lamp	Reset method	Function stop point	EEPROM address	Method of diagnosis
Operating mode	service mode						
1 Fuel	-	5-minute intervals	Yellow	Replenish fuel	---	---	Fuel scarcity rate is 90% min. after 60-s sampling
2 Engine oil	2 Engine oil	Continually	Red	Returns to normal	---	66, 86	At 5 V (normal). The following conditions continue 10 s: oil = L and 800 rpm min.
3 Charge	3 Charge	Momentarily	Red	Returns to normal	---	65, 85	At 5 V (normal). The following conditions continue 10 s: charge = L and 800 rpm min.
4 High voltage	4 High voltage	Continually	Red	Turn key OFF	AI AUX	67, 87	At 5 V (normal). A power supply voltage of 18 V min. continues 3 s.
5 Overheat (EU only)	5 Overheat	Continually	Red	112°C ± max.	AI AUX	77, 97	At 5 V (normal). The following conditions continue: Engine revolution of 800 rpm min. with overheat warning When the water temperature sensor is normal, a water temperature of (124 ±) °C min. continues 5 s. (: Adjustable between -10 °C and +10 °C.)
11 Accel sensor	11 Accel sensor	Momentarily	Red	Turn key OFF	AI	68, 88	At 5 V (normal). The accelerator sensor for AI specifications at 0.25 V max. or 4.75 V min. continues for 0.2 s.
12 Governor sensor	12 Governor sensor	Momentarily	Red	Turn key OFF	AI	71, 91	At 5 V (normal). The governor sensor for AI specifications at 0.25 V max. or 4.75 V min. continues for 0.2 s.
13 AI motor short	13 AImotor short	Momentarily	Red	Turn key OFF	AUX	69, 89	At 12 V (normal). AI specifications. The specifications are presently under consideration.
14 AI motor short	14 AI motor short	Momentarily	Red	Turn key OFF	AUX	70, 90	At 12 V (normal). AI specifications. The specifications are presently under consideration.

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B: Removing and reassembling

a. Front attachment removing



1. Dismount bucket and bucket link.



2. Disconnect bucket cylinder hose. Lifting the arm assy, tap out the pins and dismount arm assy.





3. Remove the pipe and hose connections.

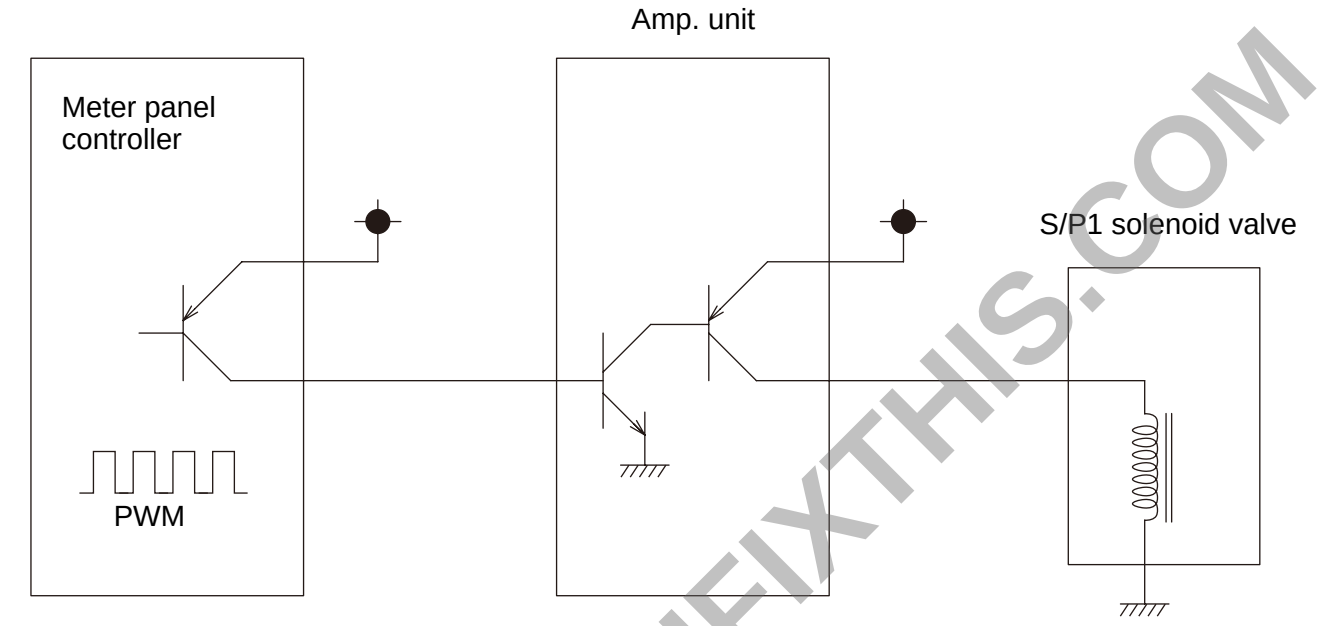
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E. Other main components

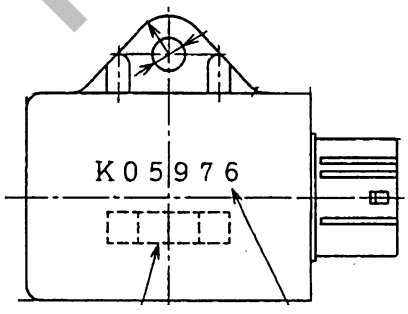
a. Amp. unit

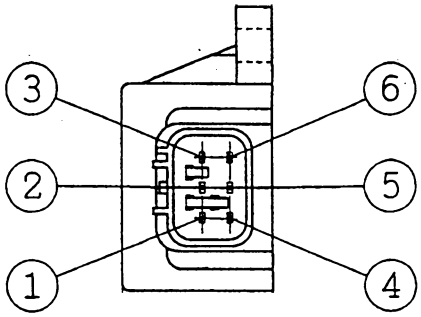
This amp. unit is incorporated to ensure the control current amount to the S/P1 solenoid valve.
Simplified function circuit is shown below.





Code No : RD809-53761





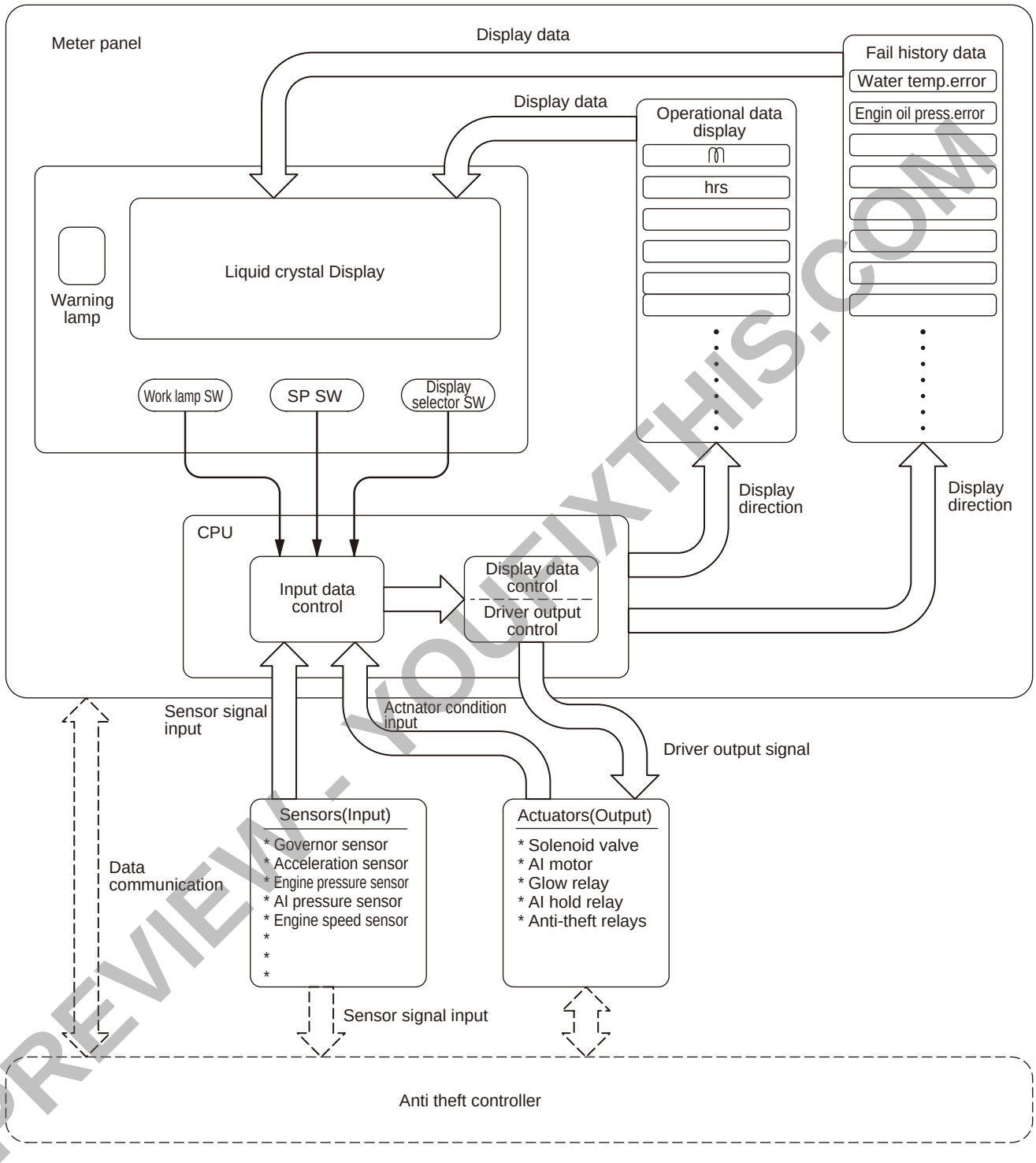
Coupler terminal

(1) PWM input 1
(2) PWM input 2
(3) Battery 12V
(4) Ground (Earth)
(5) Solenoid output 1
(6) Solenoid output 1

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c.Function of Meter panel



Outline :
Various sensor signals are fed to the CPU that is incorporated in the LCD meter. They are compared with the settings of the input data controller. After being controlled with the program, the resulting drive output signals are sent to actuators (solenoid valve and AI motor, for example). When the selector switch, AI switch or work light switch is pressed, the display output controller issues a display command and its relevant icon is picked up from the data storage and displayed on the LCD display.

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A. Troubleshooting

a. General guideline

(1) How to diagnose

The most important point in troubleshooting is to determine "Probable Causes". Once the probable causes are determined, parts to be checked can be limited to those associated with such probable causes. Therefore, unnecessary checks can be eliminated. The determination of the probable causes must be based on a theory and be supported by facts and must not be based on intuition only.

TROUBLESHOOTING STEPS

If an attempt is made to solve a problem without going through correct steps for troubleshooting, the problem symptoms could become more complicated, resulting in failure to determine the causes correctly and making incorrect repairs.The four steps below should be followed in troubleshooting.

1	Observation of Problem Symptoms	Observe the symptom carefully. Check if there are also other problems.
2	Determination of Probable Causes	In determining the probable causes, it is necessary to check the wiring diagram to understand the circuit as a system. Knowledge of switches, relays and other parts is necessary for accurate determination. The causes of similar problems in the past must be taken into account.
3	Checking of Parts Associated with Probable Causes and Determination of Faulty Parts.	Troubleshooting is carried out by making step by step checks until the true cause is found. Always go through the procedures considering what check is to be made where for the best results.
4	Repair and Confirmation	After the problems are corrected, be sure to check that the system operates correctly. Also check that new problems have not been caused by the repair.

FOUR BASIC CHECKING ITEMS FOR ELECTRICAL DIAGNOSIS

This manual contains the cable diagrams as well as the individual circuit drawings, operational explanations, and troubleshooting hints for each component required to facilitate the task of troubleshooting. The information is compiled in the following manner:

1. “Power source”
   Is the supply voltage as specified? (Battery voltage at 12 V or microcomputer output at 5 V)
   → If not specified, the system fails to work.
2. “Continuity”
   Is there continuity along the specified lines and wire harnesses? Are the system’s resistance values as specified?
   → If not specified, no current flows.
3. “Earth”
   Is the system completely grounded?
   → If not grounded as specified, the electrical circuitry fails to function well.
4. “Insulation”
   Are the system’s insulation resistances as specified?
   → If an electric leak occurs, the current gets out of spec and the electrical devices malfunction.

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b. Major specifications

		Unit	KX080-3	
Engine				
Type			Vertical, water-cooled 4 cycle, 4 cylinders diesel	
Model			V3800DI-E2-BH	
Rated engine output	ISO 3046 Net	kW/rpm	49.7/2000	
		PS/rpm	67.6/2000	
	SAE J1349 Net	HP/rpm		
	SAE J1995 Gross	HP/rpm		
Displacement		cc in^3	3769	230.0
Dimensions				
Overall length		mm in	6410	252.4
Overall width		mm in	2200	86.6
Overall crawler width		mm in	2200	86.6
Overall height	Canopy	mm in	-	-
	Cabin	mm in	2540	100.0
Min. ground clearance		mm in	386	15.2
Max. digging depth	Canopy	mm in	-	-
	Cabin	mm in	4602	181.2
Max. digging height	Canopy	mm in	-	-
	Cabin	mm in	7300	287.4
Max. digging radius	Canopy	mm in	-	-
	Cabin	mm in	7332	288.7
Max. dumping height	Canopy	mm in	-	-
	Cabin	mm in	5252	206.8
Swing angle (left/right)		deg.	67/60	
Travel speed	Low speed	km/h mph	3.1	1.9
	High speed	km/h mph	4.6	2.9
Swivel speed		rpm	9.5	
Max. traction force	Low speed	kN lbf	55.2	12.4
		kgf	5633	
	High speed	kN lbf	34.3	7.7
		kgf	3500	
Performance				
Tumbler distance		mm in	2296	90.4
Tread		mm in	2200	86.6
Crawler width x No. of shoe x pitch (Rubber crawler)		mm	450 x 80 x 154	
		in	17.7 x 86 x 6.1	
Bucket				
Capacity CECE Heaped		m^3 yd^3	0.25	0.327
Width		mm in	800	31.5
Blade				
Width x height		mm in	2200 x 500	86.6 x 19.7
Life above GL / below GL		mm in	491 / 502	19.3 / 19.8

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e. Initial settings of the knob

1. Set-up and adjustment of service port

This new finger control service port system requires three types of set-up and adjustment procedures.

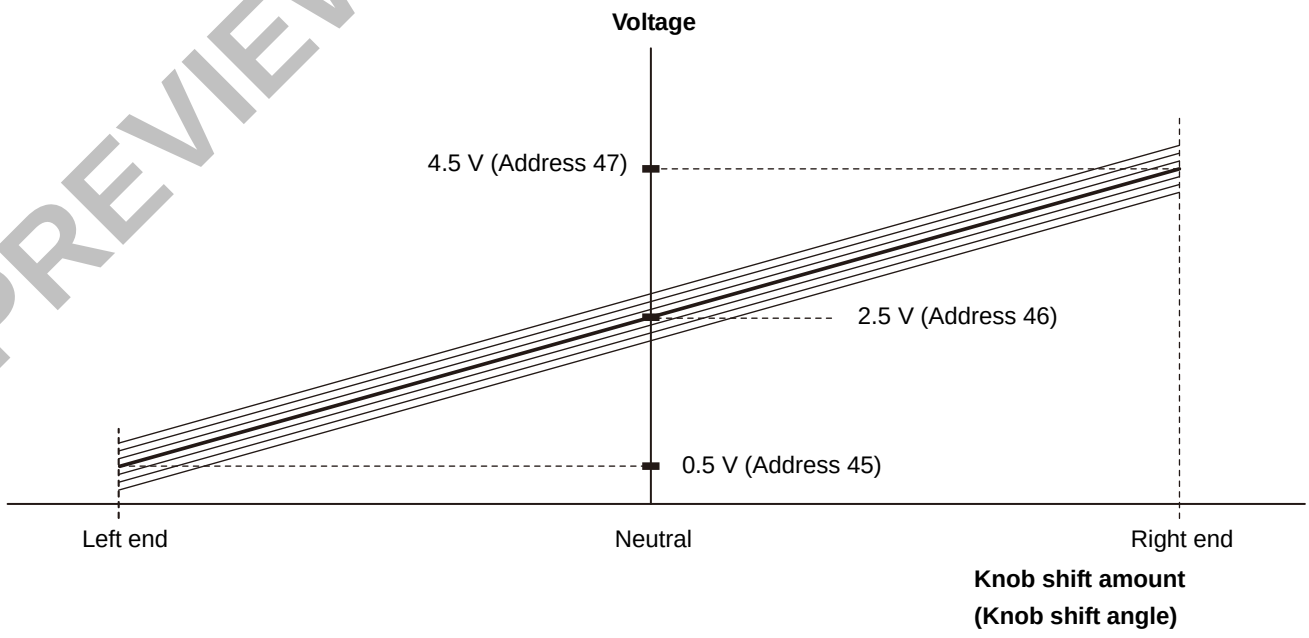
Items to set-up	When
Knob initial set-up	1. Knob change 2. S/P valve change 3. Meter panel change
S/P valve start-point set-up	1. S/P valve change 2. Main control valve change 3. Pilot pump change 4. Hydraulic actuator change
Manual feeling adjustment	1. Hydraulic actuator change 2. Operator change and feeling change

2. Purpose

Three settings (right and left ends, and neutral) of the knob are kept in the meter controller's memory. Note that there are fluctuations from knob to knob.
The knob has been factory-set at Hirakata Factory or KBM. When the meter, the knob or the proportional control solenoid valve has been replaced, the knob settings must be manually reprogrammed. If not reprogrammed, the thumb may get activated even in neutral or slowly move even at the right end.
The meter memory keeps the following data in the EEPROM addresses
1023 × 8 = 8184 then 5 V.
But actual data varies as follows.

Address 45: Left end → 0.4 ~ 0.8 V
Address 46: Neutral → 2.4 ~ 2.8 V
Address 47: Right end → 4.40 ~ 4.80 V

<Knob shift amount and output voltage>



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b.Relief Valve pressure setting

(1)Main relief valve(bench data)

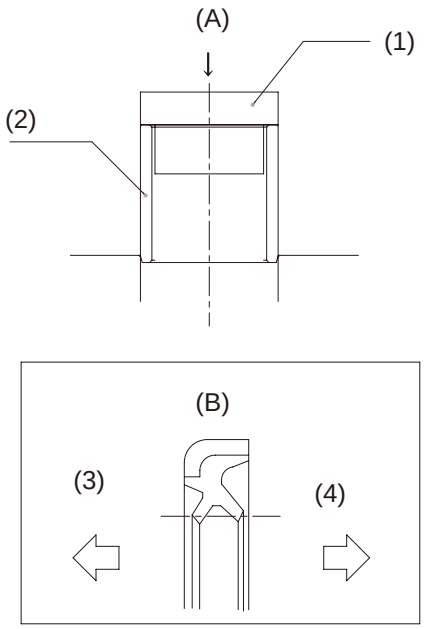
No.	Valve location	Operating work	Unit	KX080-3	Remarks
1	Travel main relief valve a1		MPa kgf/cm^2 psi	29.4±0.3 300±3 4264±44	KX080-3: at 43 L/min (11.36 USGPM)
2	Travel main relief valve a2		MPa kgf/cm^2 psi	29.4±0.3 300±3 4264±44	KX080-3: at 43 L/min (11.36 USGPM)
3	Main relief valve a4		MPa kgf/cm^2 psi	20.6±0.3 210±3 2988±44	KX080-3: at 66 L/min (17.44 USGPM)
4	LS unload relief valve b6		MPa kgf/cm^2 psi	1.96±0.1 20±1 284±15	KX080-3: at 26 L/min (6.87 USGPM)
5	LS main relief a3		MPa kgf/cm^2 psi	27.4±0.3 279±3 3974±44	KX080-3: at 48 L/min (12.68 USGPM)

(2) Main relief valve (at the measurement port on the machine)

No.	Valve location	Operating work	Unit	KX080-3	Remarks
1	Travel main relief valve a1		MPa kgf/cm^2 psi	30.4 +1.0 -1.0 310 +10 -10 4409 +145 -145	
2	Travel main relief valve a2		MPa kgf/cm^2 psi	30.4 +1.0 -1.0 310 +10 -10 4409 +145 -145	
3	Main relief valve a4		MPa kgf/cm^2 psi	21.6 +1.0 -1.0 220 +10 -10 3133 +145 -145	
4	LS unload relief valve b6		MPa kgf/cm^2 psi	2.30 +0.3 -0.3 23 +3 -3 327 +43 -43	1.9 ± 0.2 Mpa (19 ± 2 kgf/cm^2) 270 ± 28 psi
5	LS main relief a3	LS regurator	MPa kgf/cm^2 psi	27.9 +1.0 -1.0 285 +10 -10 4047 +145 -145	

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C. Pin and bushing installation

1.Fitting the bushings

Using a block or the like, fit the bushings into position.
* Do not hit directly against the bushings.

2.Bushing setup dimensions

1) Without the dust seals
Make sure the bushings do not stretch out of both sides.
2) With the dust seals
Ensure the dust seal setup space at both sides.
(It is possible to control the press-fitting dimension instead.)

3.Dust seal fitting direction

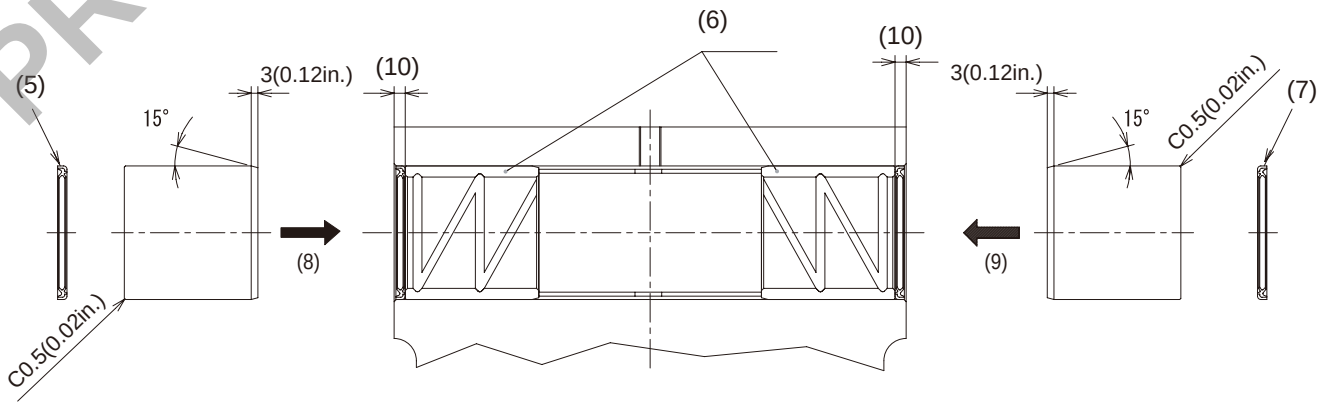
Fit the dust seals as specified in the figure.

4.Bushing setup direction

Insert the bushings from the 15×-chamfered side.

With the dust seals	S
* Bucket link 1, 6 pcs.	5.0mm(0.20in.)
* Swing bracket, 2 pcs. Boom support	10.0mm(0.39in.)
* Arm end, 4 pcs.	4.5mm(0.18in.)
* Arm support, 2 pcs.	6.5mm(0.26in.)

(A)Insert in this direction.
(B)Enlarged view of dust seal
(1)Block
(2)Bushing
(3)Bushing side
(4)Outside
(5)Dust seal
(6)Bushing
(7)Dust seal
(8)Bushing setup direction
(9)Bushing setup direction
(10)More than S



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F. Maintenance intervals

a. Maintenance intervals chart : EU-version

Operator Services	General Maintenance	Elapsed Operating Hours																				
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Interval
	Check fuel level																					daily
	Check coolant level																					daily
	Check engine oil level																					daily
	Check hydraulic oil level																					daily
	Check V-belt																					daily
	Check washer liquid																					daily
	Check water separator																					daily
	Check, clean air filter	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	50 h
	Tracks and chassis: clean, visual inspection and check tension	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	50 h
	Grease swivel gear	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	50 h
	Grease front attachments: Bucket and bucket link pin																					daily
	Grease front attachments: Boom swing fulcrum		○		○		○		○		○		○		○		○		○		○	100 h
	Grease front attachments: Others					○					○					○					○	250 h
	Grease swivel gear bearing				○				○				○				○				○	200 h
	Clean air conditioner filter				○				○				○				○				○	200 h
	Check air conditioner drive belt				○				○				○				○				○	200 h
	Clean air conditioner condenser				○				○				○				○				○	200 h
	Drain water in fuel tank										○										○	500 h
	Check battery electrolyte level										○										○	500 h
	Check air conditioner pipes and hoses																					every 2 years

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WSM

WORKSHOP MANUAL
KUBOTA EXCAVATOR

KX080-3

Kubota

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Code No.97899-61730

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II Machine body
- Mechanism section
- Service section

III Engine
- Mechanism section
- Service section

IV Hydraulic System
- Mechanism section
- Service section

V Electrical System
- Mechanism section
- Service section

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B. Safety precautions for servicing, disassembly and reassembly

⚠ Safety precautions for servicing

Most accidents during servicing arise from carelessness. Please remember that Safety involves both the welfare of the employees and improved work efficiency.

⚠ Safety precautions for Disassembly and reassembly

Machines must be disassembled and assembled efficiently and safely.
It is very important to thoroughly understand the construction and function of the machine, to make all appropriate preparations, and start operations according to the specified working procedures.

a. Safety measures before starting work

(1) Work clothes

1. Wear specified work cap and clothed. (Under no circumstances may workers wear undershirts only.)
   Cuffs must be kept buttoned, and any tears must be mended.)
2. Wear safety shoes.
3. Do not wear cotton gloves when working on the internal section of engine, reduction gears or hydrauric units for repair or others, or when using a hammer. Wear leather gloves, however, when hoisting wires.

(2) Inspecting equipment and tools

1. Prepare equipment (cranes, fork lifts, tool, etc.) required for servicing and inspect for any problems before starting work.
2. Hammer heads (metal parts) must be firmly secured to their handles.
3. Check hosting tools (wire ropes, hoisting chains, etc.) before use.

(3) Keep workshop in order

1. Secure appropriate space needed for disassembly to the job.
2. Secure a clean, safe place for arranging disassembled parts.
3. Store volatile substances (gasoline, light oil, thinner, oily articles, etc.) in appropriate containers at selected locations to prevent fire hazards.

b. Safety measures during work

(1) Protectors

1. Wear goggles when using chisels for chipping.
2. Use appropriate protectors during welding.
3. Wear a helmet when working with a crane or at elevated locations.

(2) Team work

1. When working with two or more people, divide the work and maintain close communication.
2. Crane work must be carried out using predetermined signals.

(3) Disassembly and assembly

1. Do not wear gloves when using hammers.
2. Use rods of the specified soft material for removing pins. Do not use a hammer as a pad.
3. Do not place fingers in holes when centering.
4. Heavy parts must be adequately supported before removing bolts.

(4) Cranes

1. In principle, use a crane for objects heavier than 44lb (20kg).
2. Crane operation and hoisting must be performed only by qualified personal.
3. Pay careful attention to the center of gravity when hoisting, and do not stand under the lifted objects.

(5) Others

1. To work under a jacked-up carrier, be sure to place wood pieces under it.
2. When charging batteries, make sure there are no open flames in the immediate vicinity.
3. All electric tools must be grounded.
4. Before welding the machine, remove the battery.
   - When removing the battery, be sure to disconnect negative (-) cord first.
   - When mounting the battery, be sure to connect the positive (+) cord first.

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b. Feature points

1. Performance

1-1. Kubota original engine

Kubota original new DI engine contributes for stronger digging force, lower noise level, and lower fuel consumption.

		Kubota KX080-3	Kubota KX251	Takeuchi TB175
Model		V3800DI	V3300-B	4TNE98-TB
Brand		Kubota	Kubota	Yanmar
Output	kW/rpm	47.8/2000	43.4/2300	43.5/2100
	PS/rpm	65/2000	59.0/2300	59.2/2100
Displacement	cc	3769	3318	3318

1-2. Working range and stability

Working range

		Kubota KX080-3	Kubota KX251	Takeuchi TB175	Difference with TB175	
Max. digging reach at ground level	mm	7170	6720	7245	-75mm	-1%
Max. digging depth	mm	4600	4220	4590	10mm	0%
Max. digging height	mm	7300	6665	7290	10mm	0%

Static stability

condition of measurement		long arm w/o QC	std arm w/o QC	long arm w/o QC		
Over side	kgf	734	895	724	10kg	1%
Over front	kgf	1062	1100	942	120kg	13%

QC : Quick coupler

Rear overhang

Track width	mm	2200	2150	2150	50mm	2%
Rear overhang with 90 degree swivel	mm	320	495	645	-325mm	-50%
TTL width	mm	2520	2645	2795	-275mm	-10%

Wide as conventional machine, more stable and compact than conventional machine.

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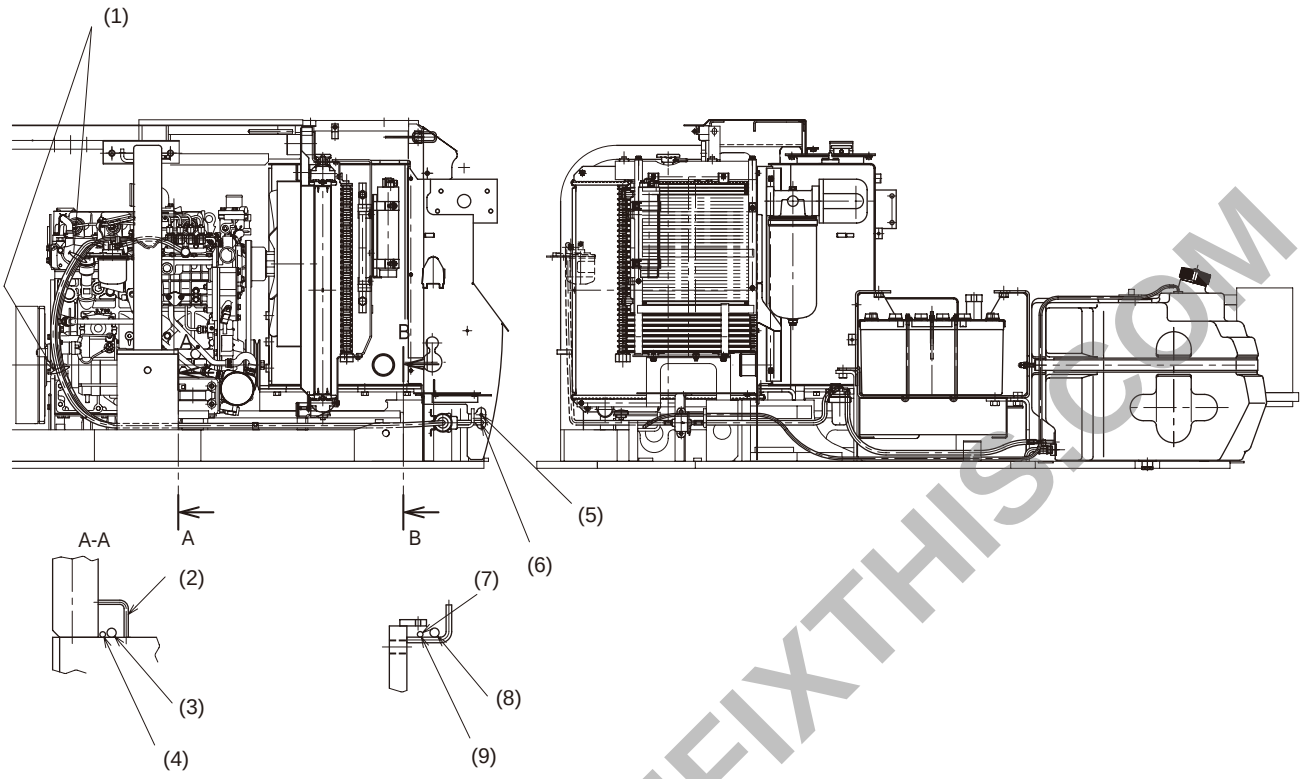
VI Air Conditioner

- Mechanism section
- Service section

VII Anti-theft System

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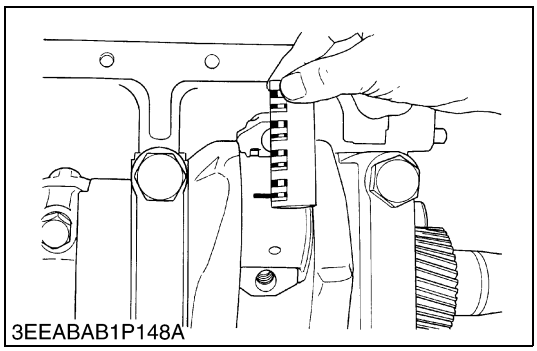
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(1)Cord band
(2)Pass both the fuel feed and return hoses through the guide.
(3)Fuel feed hose
(4)Fuel return hose
(5)Fuel return hose
(6)Fuel feed hose
(7)Pass both the fuel feed and return hoses through the guide.
(8)Fuel feed hose
(9)Fuel return hose

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Oil Clearance between Crankpin and Crankpin Bearing

1. Clean the crankpin and crankpin bearing.
2. Put a strip of plastigage on the center of the crankpin.
3. Install the connecting rod cap and tighten the connecting rod screws to the specified torque, and remove the cap again.
4. Measure the amount of the flattening with the scale, and get the oil clearance.
5. If the oil clearance exceeds the allowable limit, replace the crankpin bearing.
6. If the same size bearing is useless because of the crankpin wear, replace it with an undersize one referring to the table and figure.

- **NOTE**
- **Never insert the plastigage into the crankpin oil hole.**
- **Be sure not to move the crankshaft while the connecting rod screws are tightened.**

Crankpin O.D.	Factory spec.	52.977 to 52.990 mm 2.0857 to 2.0862 in.

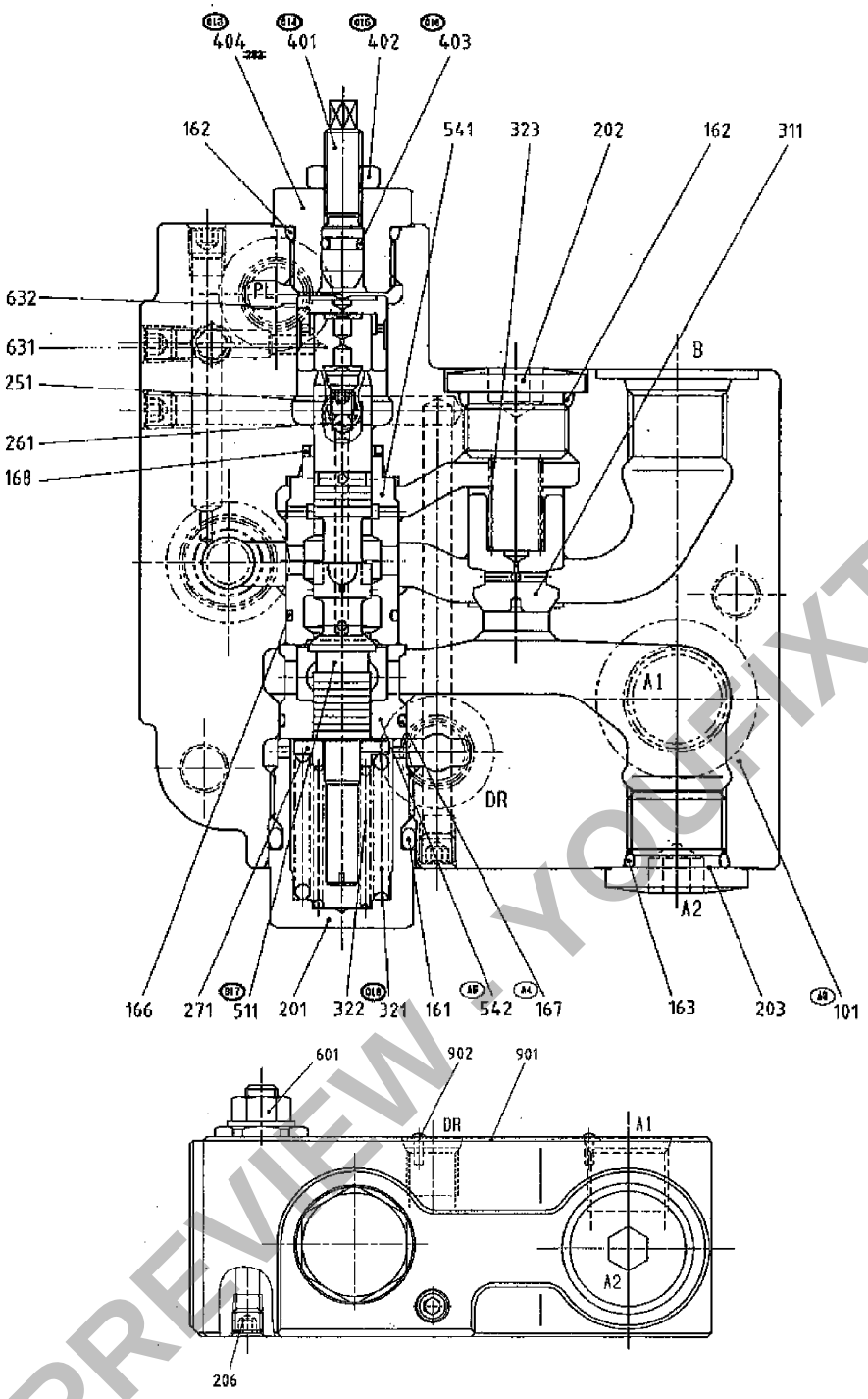
Oil clearance between crankpin and crankpin bearing	Factory spec.	0.018 to 0.051 mm 0.0007 to 0.0020 in.
	Allowable limit	0.20 mm 0.0079 in.

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d. Internal structure



902	Pin
901	Name plate
632	Piston (2)
321	Piston (1)
601	Ass'y rerlef valve
542	Bushing (2)
541	Bushing (1)
511	Spool
404	Plug
403	O-ring
402	Hexagon nut
401	Ajusting
323	Spring
322	Spring
321	Spring
311	Poppet
271	Spring seet
261	Steel ball
251	Hexagon socket set screw
206	Plug
203	Plug
202	Plug
201	Plug
168	Seal
167	O-ring
166	O-ring
163	O-ring
162	O-ring
161	O-ring
101	Casing

No.	Part name	Size	Tightening Torque	Remarks
201	Plug	M30	110~130	
202	Plug	M22	130~150	
203	Plug	G1/2	110~130	
206	Plug	NPTF1/16	7.8~9.8	NPTF1/16
251	Hexagon socket set screw	M5	3.4~4.4	Apply lock tite #262
402	Hexagon nut	M8	6.9~8.8	
404	Plug	M22	98~120	
601	Ass'y rerlef valve	M19	29~39	Ass'y relief valve

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e. Pilot valve

1.Fitting the adaptor

Port P
Filter
Pipe joint
Ports T, 1, 2, 3 and 4
Pipe joint

2.Adaptor tightening torque

G1/4 size
24.5~29.4N.m(2.5~3.0kgf.m)18.1~21.7ft.lbs

3.Fitting direction of the valve

Position the valve with port (2) facing the machine front.

4.Quick-coupling adaptor

Pipe joint
Make sure the hose connection is free from detrimental scratches.

5.Fitting the thermal insulation (21, cooler) and valve assembly (pilot, R)

Tightening torque
12.3~14.2N.m(1.3~1.5kgf.m)9.1~10.5ft.lbs

6.Fitting the plate (1, partition) and plate (2, partition)

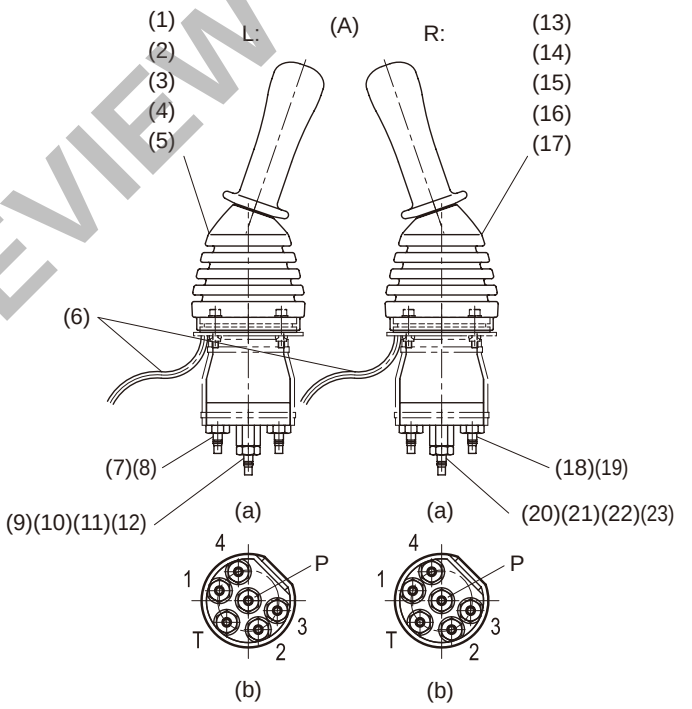
When winding the thermal insulation around the valve, be careful not to wrap the wire harness together.

Left P/V

	Location	Hose tape color
1	Swivel left	Gray
2	Arm dump	Yellowish green
3	Swivel right	Sky-blue
4	Arm crowded	Blue
P	Port P	White
T	Port T	None

Right P/V

	Location	Hose tape color
1	Bucket crowded	Orange
2	Boom down	Yellow
3	Bucket dump	Red
4	Boom up	Green
P	Port P	White
T	Port T	None



((A)(Viewed from the operator's seat)

L:Left P/V
R:Right P/V

(a)(Back)
(b)(Front)

1)Valve assembly (pilot, L)
(2)Thermal insulation (21, cooler)
(3)Inlet pipe band
(4)Lock socket bolt
(5)Spring washer
(6)Wire harness
(7)Other than port P
(8)Pipe joint (S, G1/4-8.4)
(9)Port P
(10)Filter
(11)O ring
(12)Pipe joint (S, G1/4-8.4)
(13)Valve assembly (pilot, R)
(14)Thermal insulation (21, cooler)
(15)Inlet pipe band
(16)Lock socket bolt
(17)Spring washer
(18)Other than port P
(19)Pipe joint (S, G1/4-8.4)
(20)Port P
(21)Filter
(22)O ring
(23)Pipe joint (S, G1/4-8.4)

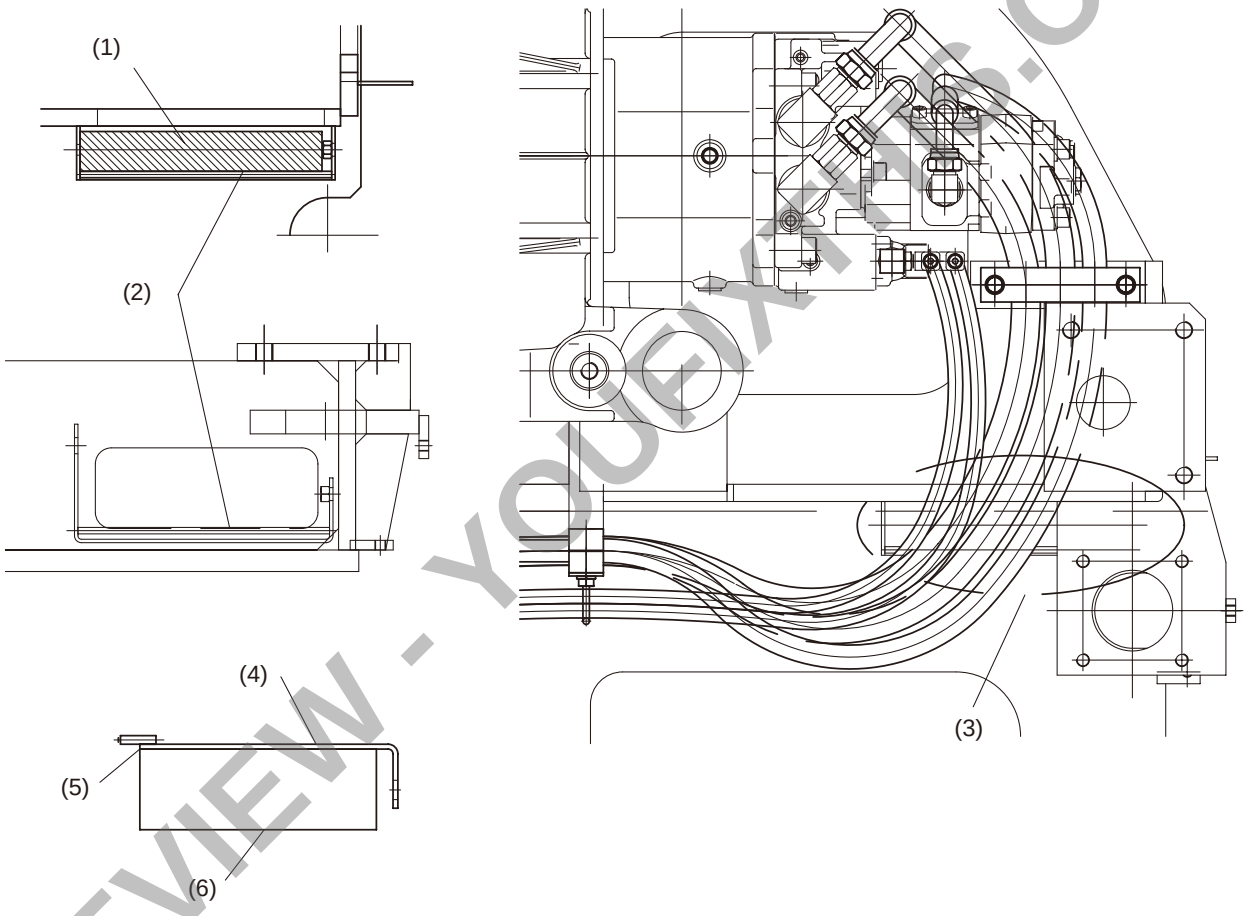
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10.Swivel frame partition

1.Applying position of the cushion
(1, delivery)
Apply the cushion to the position, shown in the figure, on the swivel frame.

2.Applying position of the sticker
(2, delivery)
Apply the sticker to the position, shown in the figure, on the plate (delivery) .



(1)Cushion (1, delivery)
(2)Apply the cushion in contact with the round bar.
(3)Finally, make sure this opening is covered as much as possible with the sealing material.
(4)Plate (delivery)
(5)End face to be aligned
(6)Sticker (2, delivery)

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2-3 Erasing Method of Error Log

The error log will be deleted by selecting Error Log Delete in Diagnosis Mode. In the software, only the 0th to third bits (the accumulated number of errors) in EEPROM addresses 85 through 103 will be zero cleared, but hour meter data will not be zero cleared. Error Log Delete in Diagnosis Mode judges that there is no error log if the number of errors is zero.

Hour meter data will not be deleted after executing Error Log Delete in Diagnosis Mode. Therefore, by dumping the EEPROM, hour meter data for errors will be known. This will make troubleshooting possible if the LCD meter is returned to the factory due to a failure after shipping.

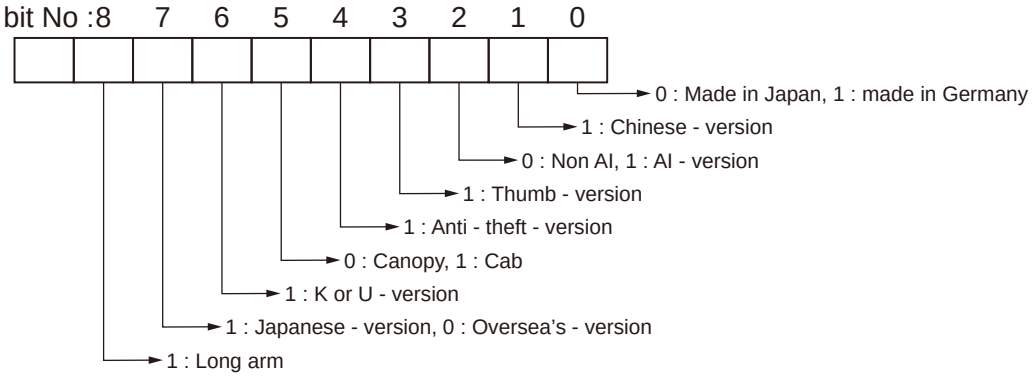
The contents of addresses 65 through 103 are zero cleared with the PC before shipping.

Address No.	Contents & purpose to use
0 ≀ 35	Hour meter
36	Machine model (Ref.1)
37	Optional item (Ref.2)
38 ≀ 44	AI control data
45 ≀ 50	Thumb control data
51 52	Overheat control data
53	Language (Ref.3)
54 ≀ 61	Machine hours & times
64 ≀ 104	Machine failure warning
105 ≀ 127	Original manufacturer use Address No. 118 : Machine serial No.

Fig.2.Address and contents of EEPROM

Ref.1 : 0:KX41-3, 1:KX61-3, 2:KX71-3, KX91-3, 4:KX101-3, 5:KX-121-3, 6:KX161-3, 7:KX080-3 ···

Ref.2 :



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