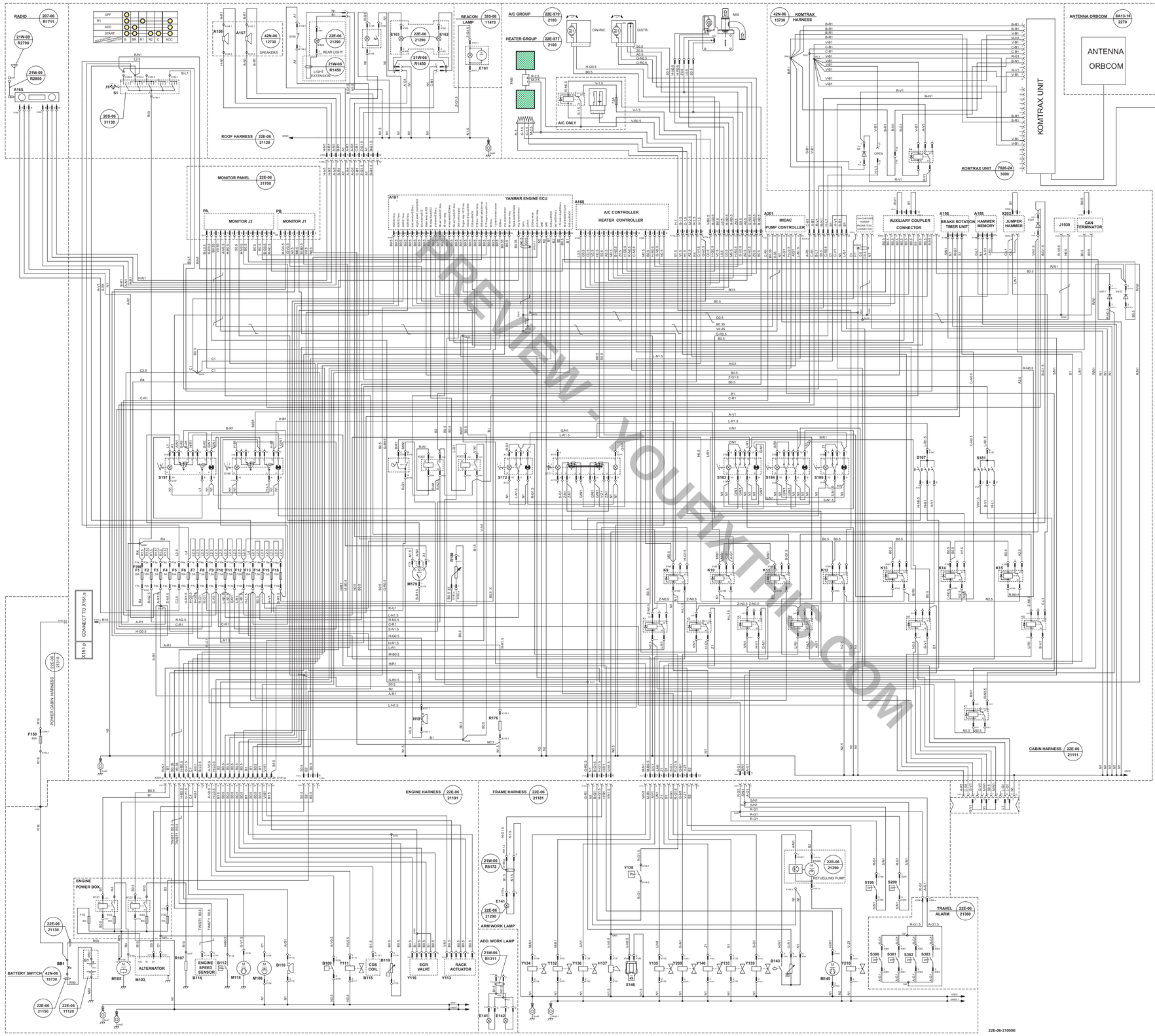
ELECTRICAL DIAGRAM

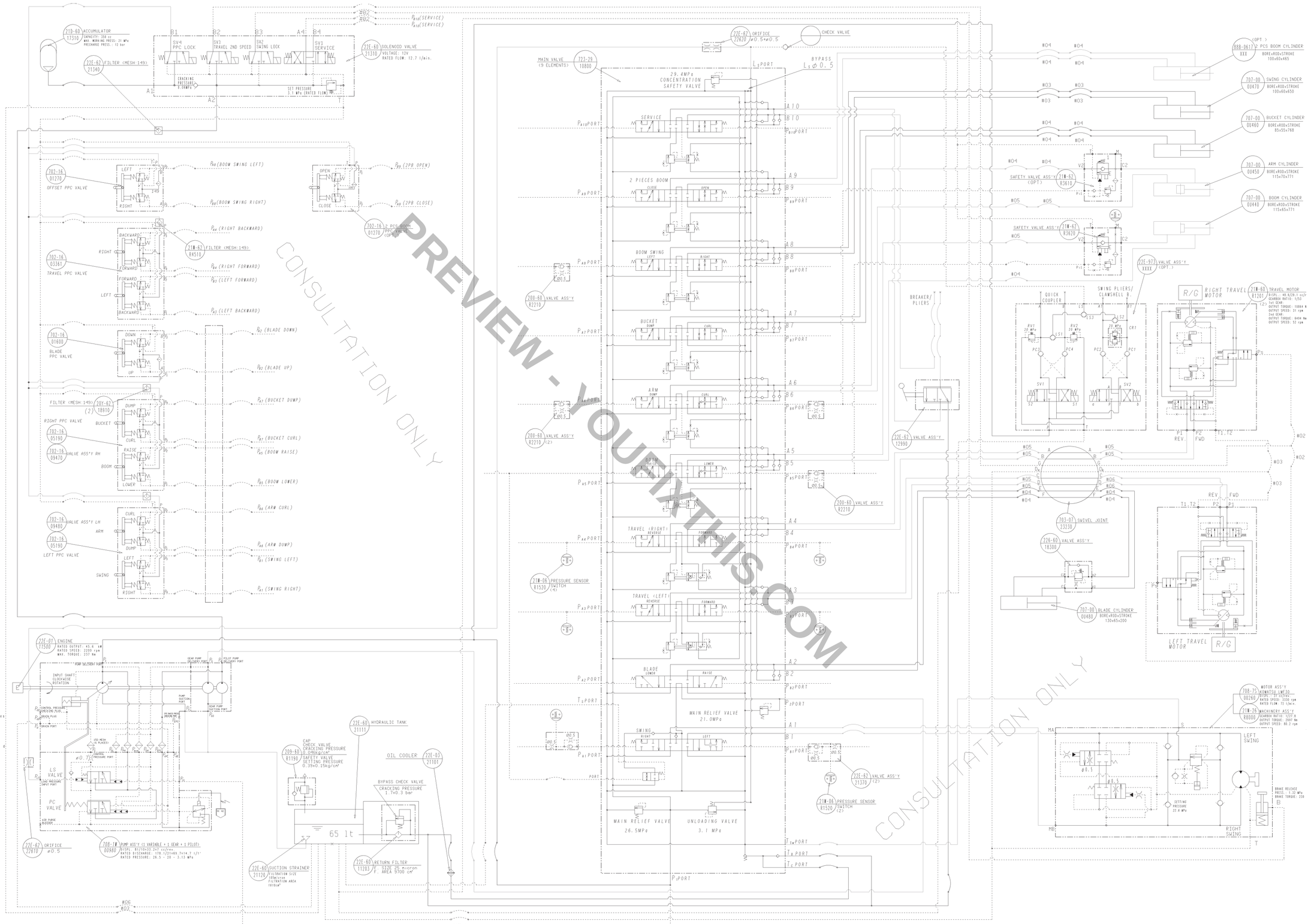


A156	Speaker (LH)	42N-06-12730	
A157	Speaker (RH)	42N-06-12730	
A185	Radio	207-06-R1711	
A188	A/C controller	22E-06-21830	
A197	Coupler amplifier	22E-06-21860	
A187	Control unit ECU Yanmar		
A198	Hammer memory unit		
A188	Timer brake rotation		31177133
A301	MIDAC UNIT (Pump controller)		
B109	Air intake		
B110	Travel alarm		
B112	Oil pressure		
B114	Engine speed sensor		
B115	CAN cell		
B119	Water temp.ECU		
B124	Fuel level sensor	22E-06-21210	
B125	Pumpsetting travel alarm		
B142b	Pressure switch(Arm pushin)		
E141	Arm working lamp	22E-06-21290	
E196	Room lamp		
E161	Beacon	395-06-11470	
E162	Head lamp (lh)	22E-06-21290	
E163	Head lamp (rh)	22E-06-21290	
E304	Work lamp	22E-06-21290	
F1	Heater Fan fuse - Compressor	08041-02500	163003
F2	Main relay fuse	21D-06-11820	163003
F3	Backup lamp fuse, room lamp, monitor	21D-06-11820	163003
F4	Electric horn fuse	21D-06-12560	163003
F5	Fuel pump ECU fuse	21D-06-11820	163007
F6	Cigar lighter fuse	21D-06-11820	163007
F7	Monitor - Buzzer fuse	21D-06-11810	163005
F8	PPC valve fuse	21D-06-11810	163005
F9	+15 Motec (Cpu line)+Komtrax fuse	21D-06-11810	163005
F10	Joystick right, switch overload fuse Midac (Load)	21D-06-11810	163005
F11	Switch lamp fuse	21D-06-11810	163005
F12	Switch quick, coupler, joystick left fuse	21D-06-11810	163005
F13	Working lamp relay,working lamp/ ew fuse	21D-06-11810	163005
F14	A/C controller fuse	21D-06-11810	163005
F15	Hammer memory, radio fuse	21D-06-11810	163005
F16	Wiper motor fuse	21D-06-11820	163007
F10	Alternator fuse		163101
F6G	Pre-heather relay Fuse		163067
F2G	Starter relay fuse		163064
F3G	Refuelling pump fuse		163072
F150	Power box		
F190	Fuse box		113627
G1	Battery	22E-06-11120	
H137	Alternator	42N-06-11240	
H191	Buzzer alarm		
K1	Quick coupler relay	395-06-12870	157061
K2	Pliers relay	395-06-12870	157061
K3	2" Hydraulic relay	395-06-12870	157061
K4	Monitort bucket relay	395-06-12870	157061
K5	Hammer relay	395-06-12870	157061
K6	Engine Start cut relay	395-06-12870	157061
K7	Working light relay (Arm)		157104
K10	Working light relay (Cabin)		157104
K11	Working light relay (Cabin)		157104
K12	First speed fan relay		157104
K13	Second speed fan relay		157104
K14	Third speed fan relay		157104
K15	Fourth speed fan relay		157104
K121	Engine starter relay (Power Box)	22E-06-11350	157102
K122	Pre-heater Relay (Power Box)	22E-06-11350	157102
K163	Relay box "A/C"		113628
K302	Actuator Relay		157159
K303	Main Relay		157159
K7	Pre-Heater lamp relay		157061
K142	Additional working lamp (Arm)	22E-06-21290	
M103	Alternator		
M105	Engine starter motor		
M108	Fuel pump		
M118	Air conditionary compressor		
M145	Washer tank		
M179	Wiper motor		
P6	Monitor J2	22E-06-21700	
P8	Monitor J1	22E-06-21700	
R137	Heater alimat		
R178	Cigar lighter		
R190	Horn (Electric)	22E-06-21811	
S1	Starter switch	205-06-31130	139596
S199	Limit switch (Window)	419-54-R2540	
S167	Left joystick	702-16-09450	
S170	PPC Lock switch	22U-06-R2360	
S171	Quick coupler switch	22E-06-21460	1T 1900-1400-84
S172	Overload switch	22E-06-21440	SA023596
S181	Right joystick	702-16-09460	
S183	Monitort Bucket/hammer switch	22E-06-21450	SA023597
S184	2" hydraulic/pliers switch	22E-06-21430	SA023595
S186	Beacon lamp switch	22L-06-R5230	SA020636
S396	Working lamp switch	DA1-06-11210	SA022084
S197	Wiper switch	22E-06-21420	SA020715
S199	Rotation press.sw right	21W-06-R1520	
S600	Rotation press.sw left	419-06-R1520	
V201	Diode		124219
V610	Diode		124219
V611	Diode		124219
X113	Rack actuator		
X202	Jumper hammer memory		
X111	Tvc valve		
X116	EGR valve		
X132	2nd speed		
X133	Rotation brake		
X134	PPC valve		
X136	Travel		
X136	Monitort bucket		
X138	Overload pressure switch		
X139	Quick coupler		
X140	Pliers		
Y209	2" hydraulic		
Y210	2" hydraulic		
X195.p	Connector to roof wiring harness		125831
X106	90 starter pin		
X151.k	Connector to harness (IA023542		226086
X151.a	Main switch		226086
X130.k	Connector (To cabin harness		125412
X131.k	Connector to cabin harness		124555
X132	Connector (2nd speed)		124451
X133	Connector (Brake rotation)		124451
X134	Connector (PPC valve)		124451
X135	Connector (Hammer)		124451
X136	Connector (Monitort bucket)		124451
X137	Connector (Horn)		500004
X138.1	Pin Overload (Pressure switch)		124377
X138.2	Pin Overload (Pressure switch)		121061
X139.k	Connector (Quick coupler)		124451
X140.k	Connector (Pliers)		124451
X141	Connector (Arm working lamp)		124451
X142.1	Connector Full fuel (refuelling pump)		125135
X142.2	Pin Gnd fuel sensor		120022
X142.3.k	Connector Full fuel (refuelling pump)		125400
X143	Connector (Fuel sensor level)		124452
X145	Connector (Washer tank)		125018
X146	Connector (Overload pressure switch)		124454
X199	Connector (Rotation press.sw right)		125177
X600	Connector (Rotation press.sw left)		125400
X207.k	Connector (Travel alarm)		124451
X208.k	Connector (Pressfilling Travel alarm)		124451
X209.k	Connector (2" hydraulic)		124451
X210.k	Connector (2" hydraulic)		124451
X101.p	Connector (To engine harness)		XE08032I3
X102.p	Connector (To engine harness)		125408
X130.p	Connector (To Carriage/frame harness)		125412
X131.p	Connector (To Carriage/frame harness)		124399
X151.p	Connector (To harness (IA023 1544)		XE08032I3
X195.k	Connector (To roff cabin harness)		125421
X106.k	Radio connector		125400
X396	Radio connector		125548
X207	Connector (Left joystick)		124966
X166	Connector (A/C controller)		124534
X169	Connector (A/C controller)		124868
X170	Connector (Micro switch harness)		125406
X171	Connector (Switch quick-coupler)		16.650.003
X172	Connector (Switch overload)		16.650.003
X173.k	Connector (A/C)		125015
X174.k	Connector (A/C)		125668
X176.1	Connector (Cigar lighter)		124007
X176.2	Connector (Cigar lighter)		124007
X180.k	Connector (Potentiometer)		125477
X181	Connector (Right joystick)		124666
X182.1	Pin Starter switch (C)		120011
X182.2	Pin Starter switch (R1)		120011
X182.3	Pin Starter switch (ACC)		101124
X182.4	Pin Starter switch (B)		101124
X182.5	Pin Starter switch (BR)		
X183	Connector (Switch bucket / buchet / hammer)		16.650.003
X184	Connector (Switch pliers / 2"hydraulic)		16.650.003
X186	Connector (Switch beacon)		16.650.003
X187	Connector (Controller ECU)		XE08031762
X188	Connector (Hammer memory)		125926
X189	Connector (Relay box "A")		113628
X190	Connector Fuse box +30+15ACC		113627
X191.1	Connector Buzzer alarm		124007
X191.2	Connector Buzzer alarm		124007
X193	Connector (Relay box "A/C")		113628
X196	Connector (Switch working lamp)		16.650.003
X197	Connector (Switch wiper front)		16.650.003
X198	Connector (Brake timer rotation)		125406
X201.k	Connector (Diode)		125226
X202.p	Connector (Jamper hammer)		125008
X202.k	Connector (Jamper hammer)		125007
X203.p	Auxiliary connector		124094
X203.k	Auxiliary connector		124956
X204.k	Connector (Can Checker)		124067
X207.p	Connector (To Carriage/frame harness)		125404
X214.k	Komtrax Connector		124456
X301	Connector (MIDAC)		124234
X302	Connector (Actuator relay)		125314
X303	Connector (Main Relay)		125314
X310.p	Connector (CAN TERMINATOR)		125400
X310.k	Connector (CAN TERMINATOR)		125402
X311	Connector (Box relay "b")		113629
X350.k	Connector (J1939)		125406
X400.p	Connector (Antitheft)		125420
X400.k	Connector (Antitheft)		125422
X410.k	Connector (Diode)		125226
X411.k	Connector (Diode)		125226
X5	Connector (Monitor J2)		125816
X6	Connector (Monitor J1)		125815
X101.k	Connector (To cabin harness)		XE08032I6
X102.k	Connector (To cabin harness)		125415
X103.1	Connector (Alternator)		125683
X107	Pin (Heater glow)		101383
X112	Pin (Oil pressure)		120010
X120.2	Pin (Refuelling pump fuse)		120011
X121	Connector (Starter Relay)		125117
X121.87	Pin (87 Starter relay)		120025
X122	Connector (Pre-heater relay)		125117
X122.87	Pin (87 Pre-heater relay)		101124

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HYDRAULIC CIRCUIT (STANDARD VERSION)

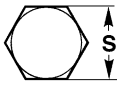
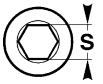


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STANDARD TIGHTENING TORQUE

The following charts give the standard tightening torques of bolts and nuts.
Exceptions are given in section of «Disassembly and Assembly».

1. STANDARD TIGHTENING TORQUE OF BOLTS AND NUT

Thread diameter of bolts (mm)	Pitch of bolts (mm)	Width across flat (mm)		8.8		10.9	
				kgm	Nm	kgm	Nm
6	1	10	8	0.96±0.1	9.5±1	1.3±0.15	13.5±1.5
8	1.25	13	6	2.3±0.2	23±2	3.2±0.3	32.2±3.5
10	1.5	17	8	4.6±0.5	45±4.9	6.5±0.6	63±6.5
12	1.75	19	10	7.8±0.8	77±8	11±1	108±11
14	2	22	12	12.5±1	122±13	17.5±2	172±18
16	2	24	14	19.5±2	191±21	27±3	268±29
18	2.5	27	14	27±3	262±28	37±4	366±36
20	2.5	30	17	38±4	372±40	53±6	524±57
22	2.5	32	17	52±6	511±57	73±8	719±80
24	3	36	19	66±7	644±70	92±10	905±98
27	3	41	19	96±10	945±100	135±15	1329±140
30	3.5	46	22	131±14	1287±140	184±20	1810±190
33	3.5	50	24	177±20	1740±200	250±27	2455±270
36	4	55	27	230±25	2250±250	320±35	3150±350
39	4	60	—	295±33	2900±330	410±45	4050±450

This torque table does not apply to bolts or nuts which have to fasten nylon or other parts non-ferrous metal washer.

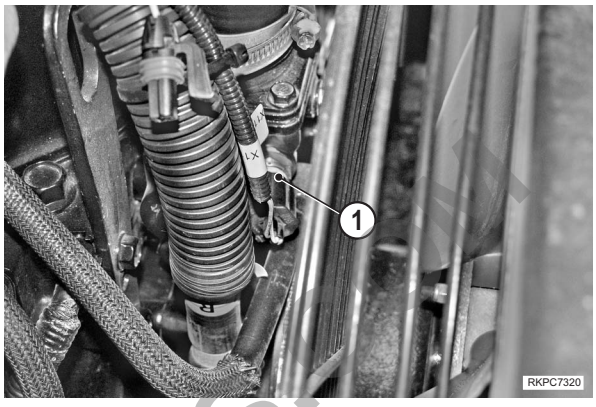
★ **Nm (newton meter): 1 Nm = 0.102 kgm**

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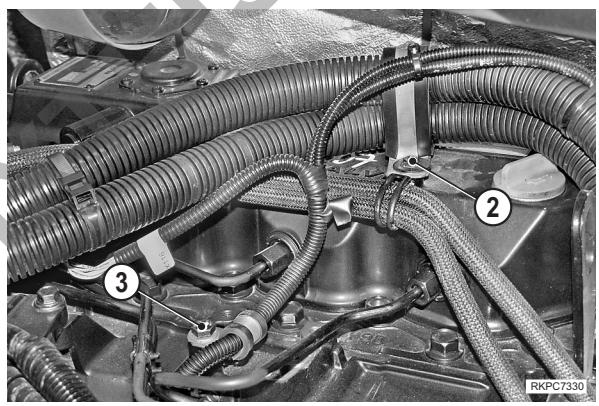
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REMOVAL OF VALVES COVER

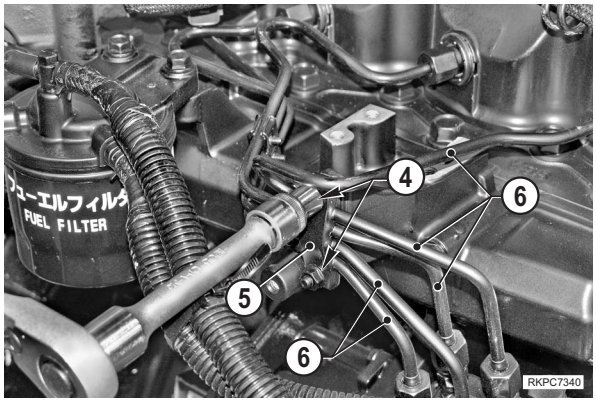
1 -Disconnect the connector (1) the temperature sensor.



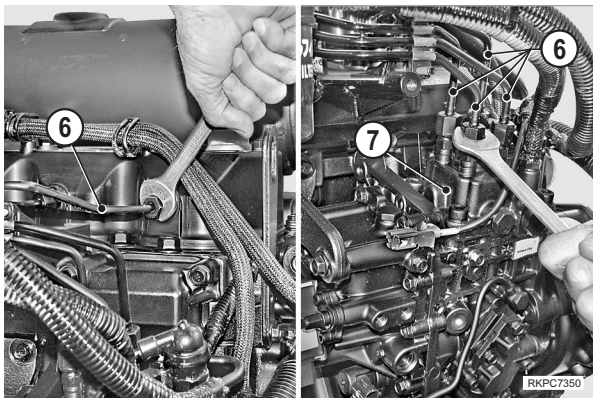
2 -Remove screws (2) and (3) and remove wiring harness tie straps and heating hose clamps.



3 -Loosen nuts (4) and remove the clamp (5) retaining the fuel delivery pipes (6).



4 -Disconnect pipes (6) from injectors and injector pump (7).



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NORMAL OR STANDARD TECHNICAL DATA

FOR THE ENGINE

Machine model				PC80MR-3	
Engine				4D88E-5KFD	
Check item	Test conditions		Unit	Standard value	Permissible value
Engine speed (without load):	High idling (no-load)		rpm	2250 $^{+100}_{-50}$	—
	Low idling (no-load)			1100 ± 50	—
	Max. power rating			2000	—
Exhaust gas colour	Sudden acceleration		Index Bosch	Max. 3.5	6.0
	At high idling speed			Max. 1.0	2.0
Valve clearance	Intake valve (20 °C)		mm	0.35 ± 0.02	—
	Dump (20 °C)			0.50 ± 0.02	—
Compression pressure (SAE15W-40 oil)	Oil temperature: 40-60°C Engine speed: 320 -360 rpm		kg/cm^2	Min. 30	21
Blow-by pressure	Oil temperature: within range) At max. power rating		mmH_2O	50	100
Engine oil pressure High idling	Oil temperature: within range	SAE 30	kg/cm^2	3.5 – 5.5	2.5
		SAE 10W		3.0 – 5.0	2.1
Engine oil pressure Low idling	Oil temperature: within range	SAE 30	kg/cm^2	1.8	1.5
		SAE 10W		1.5	1.3
engine oil temperature	Entire speed range		ºC	90 – 110	120
Fuel injection timing advance	B T D C		degrees	5 ± 0.75	5 ± 0.75
Fan-belt tension	Deflection when pressed with finger force of approx. 6 kg		mm	6 – 10	6 – 10
Belt tension air conditioner compressor	Deflection when pressed with finger force of approx. 6 kg		mm	6 – 10	6 – 10

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REVISED PAGES

The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to table below.

Mark	Indication	Action required
○	Page to be newly	Add
●	Page to be replaced	Replace
( )	Page to be delete	Discard

Pages having no marks are those previously revised or made additions.

Mark	Page	Time of rev.
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IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for the safe operation of your machine.
The service and repair techniques recommended by Komatsu and describe in this manual are both effective and safe methods of operation. Some of these operations require the use of tools specially designed by Komatsu for the purpose.

To prevent injury to workers, the symbol ⚠ is used to mark safety precautions in this manual. The cautions accompanying these symbols should always be carefully followed. If any danger arises or may possibly arise, first consider safety, and take necessary steps to face.

SAFETY

GENERAL PRECAUTIONS

Mistakes in operation extremely dangerous.
Read all the Operation and Maintenance Manual carefully BEFORE operating the machine.

1. Before carrying out any greasing or repairs, read all the precautions written on the decals which are suck on the machine.
2. When carrying out any operation, always wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.
   - Always wear safety glasses when hitting parts with a hammer.
   - Always wear safety glasses when grinding parts with a grinder, etc.
3. If welding repairs are needed, always have a trained, experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, glasses, cap and other clothes suited for welding work.
4. When carrying out any operation with two or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
5. Keep all tools in good condition and learn the correct way to use them.
6. Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

7. Before adding or making any repairs, park the machine on hard, level ground, and block the tracks to prevent the machine from moving.
8. Before starting work, lower outrigger, bucket or any other work equipment to the ground. If this is not possible, use blocks to prevent the work equipment from falling down. In addition, be sure to lock all the control levers and hang warning sign on them.
9. When disassembling or assembling, support the machine with blocks, jacks or stands before starting work.
10. Remove all mud and oil from the steps or other places used to get on and off the machine. Always use the handrails, ladders or steps when getting on or off the machine.
    Never jump on or off the machine.
    If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.

PRECAUTIONS DURING WORK

11. When removing the oil filler cap, drain plug or hydraulic pressure measuring plugs, loosen them slowly to prevent the oil from spurting out.
    Before disconnecting or removing components of the hydraulic circuit and engine cooling circuit, first remove the pressure completely from the circuit.
12. The water and oil in the circuits are not hot when the engine in stopped, so be careful not to get burned.
    Wait for the oil water to cool before carrying out any work on the cooling water circuits.
13. Before starting work, remove the leads from the battery. Always remove the lead from the negative (–) terminal first.

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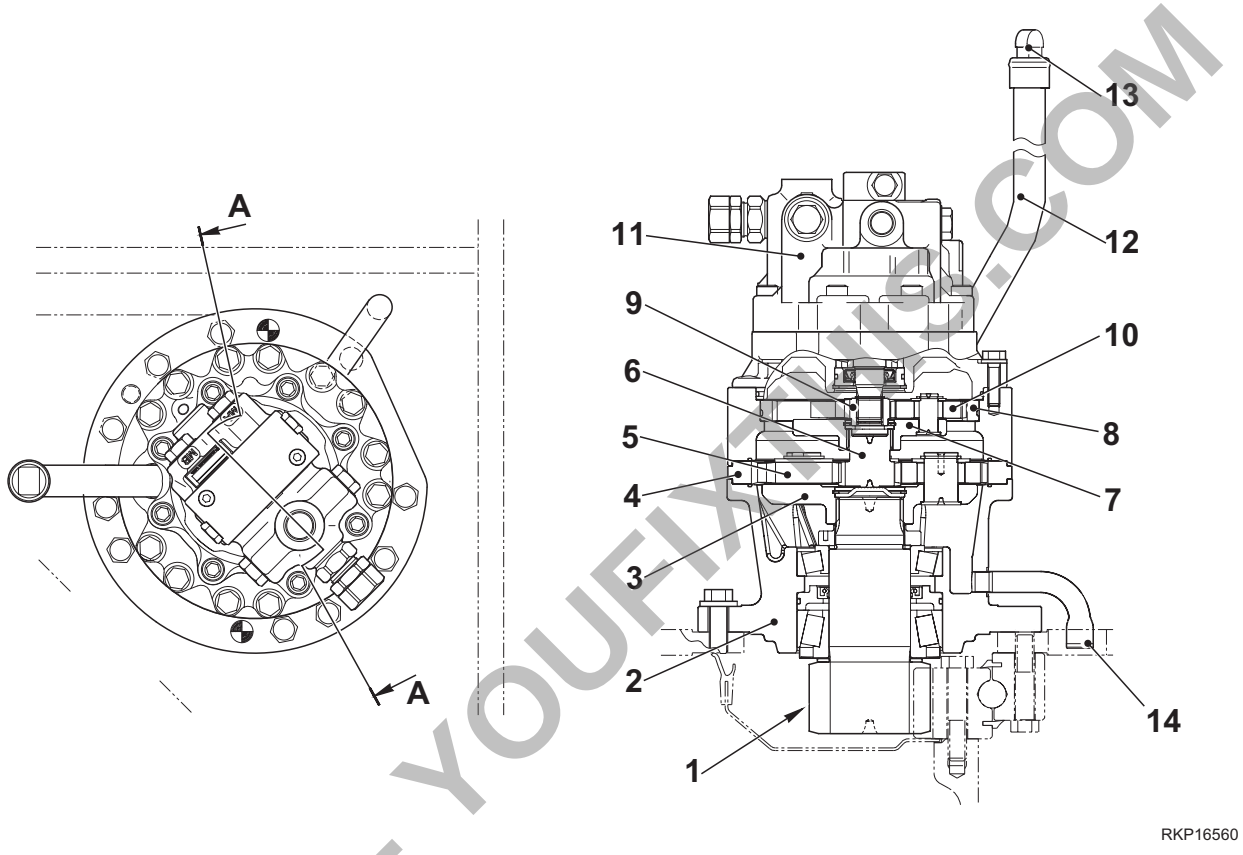
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SWING MACHINERY



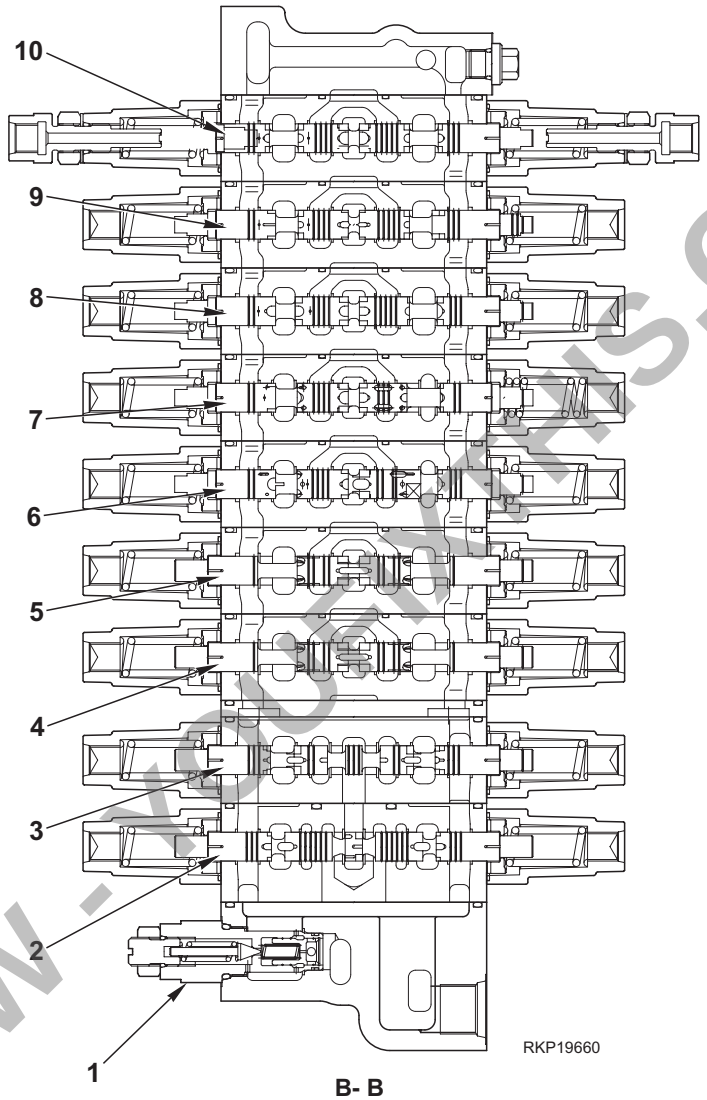
1. Pinion (Number of teeth: 10)
2. Axle body
3. No. 2 planetary carrier
4. Ring gear
5. No. 2 planetary gear
6. No. 2 sun gear
7. No. 1 planetary carrier
8. Ring gear
9. No. 1 sun gear
10. No. 1 planetary gear
11. Swing motor
12. Oil filler pipe
13. Level gauge
14. Drain plug

SPECIFICATIONS

Reduction ratio	27.8
Swing speed (rpm)	–

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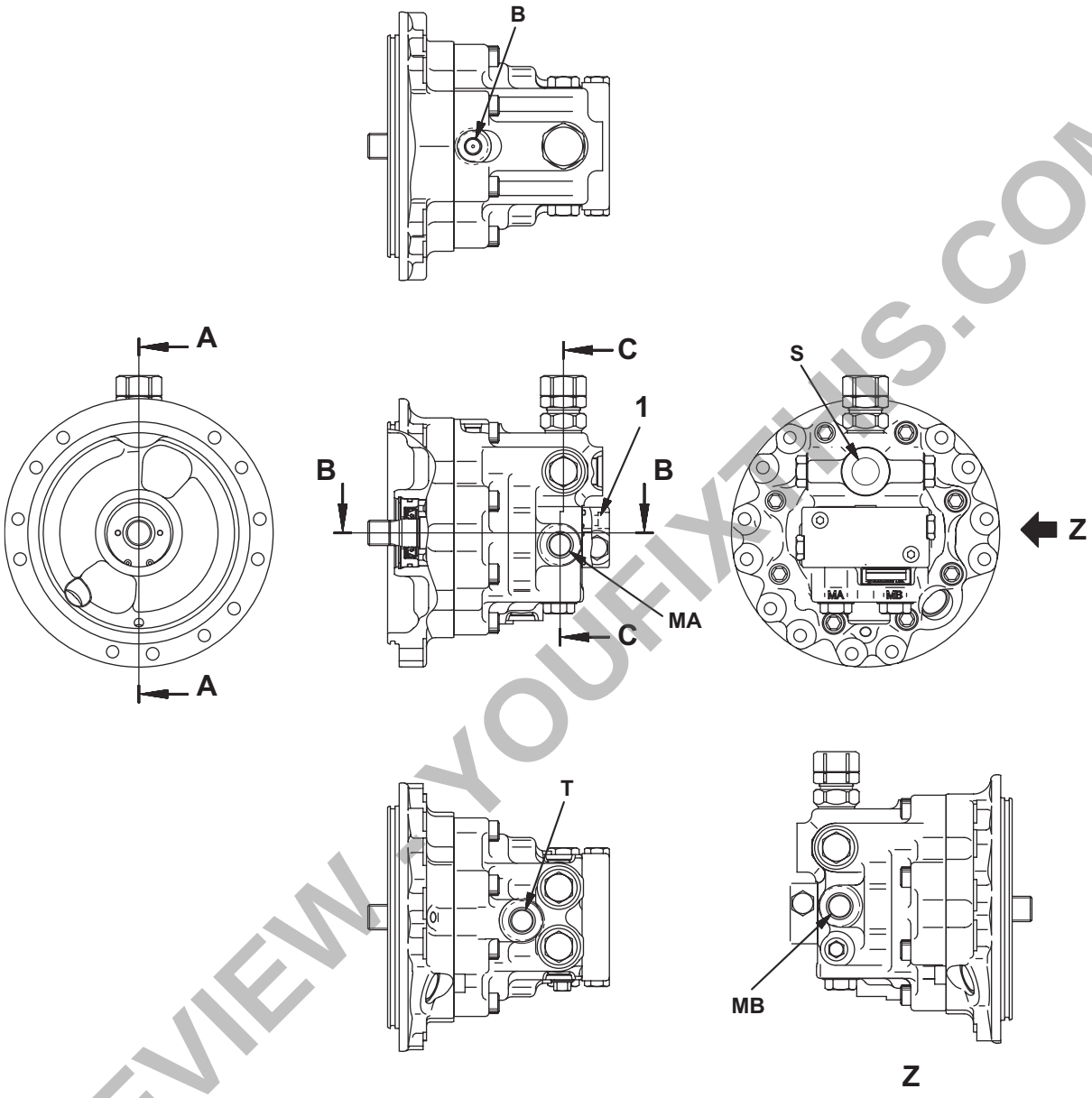
B- B

1. Main relief valve
2. Spool (swing)
3. Spool (blade)
4. Spool (L.H. travel)
5. Spool (R.H. travel)
6. Spool (boom)
7. Spool (arm)
8. Spool (bucket)
9. Spool (boom swing)
10. Spool (attachment)

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SWING MOTOR



RKP15890

B: From brake swing solenoid valve
S: From the tank
T: To tank
MA: From control valve
MB: From control valve

SPECIFICATIONS

Type: LMF30AEL
Displacement 31 cc/rev
Safety valve set pressure: 210 bar
Suction valve cracking pressure: 0.3 bar

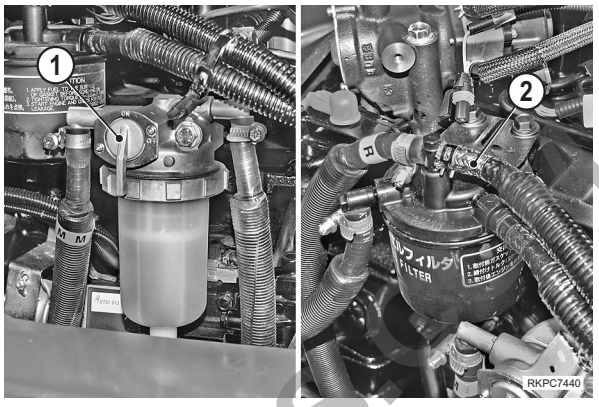
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TESTING AND ADJUSTING FUEL INJECTION TIMING

★ **Directions of rotation are referred to the engine as seen from the fan side.**

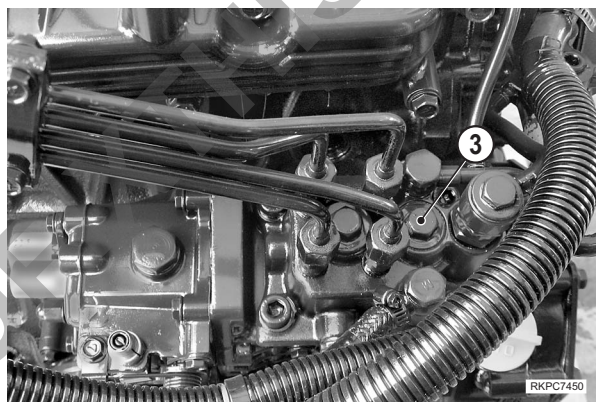
Test

1 - Close the fuel delivery cock (2).
Disconnect and close the return hose (2).

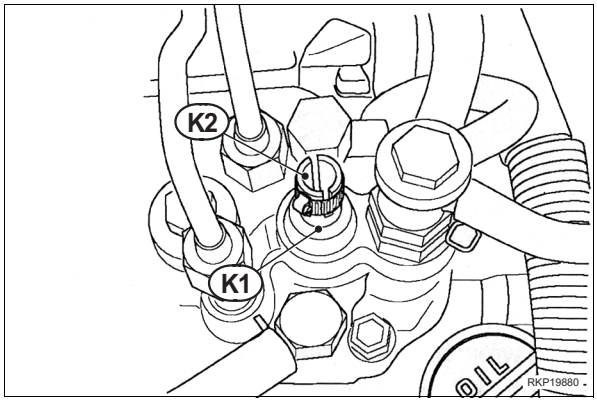


2 - Thoroughly clean the cover to prevent contaminants from getting into the pump during the next steps.

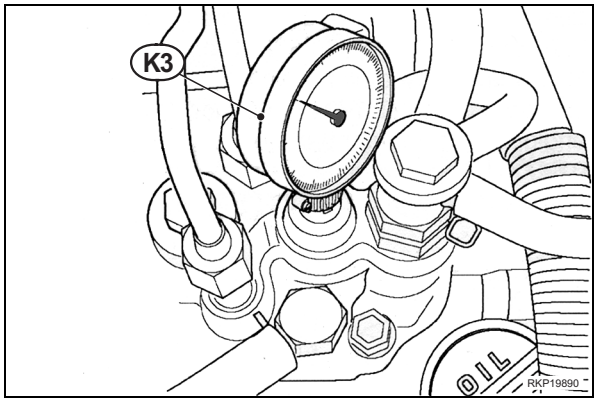
3 - Remove plug (3) from the pump cover.



4 - Install adaptor **K1** and dial gauge holder **K2**.



5 - Install a centesimal dial gauge **K3** (30mm head travel) and lock into position at about half way of its working stroke.



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9. Swing motor test

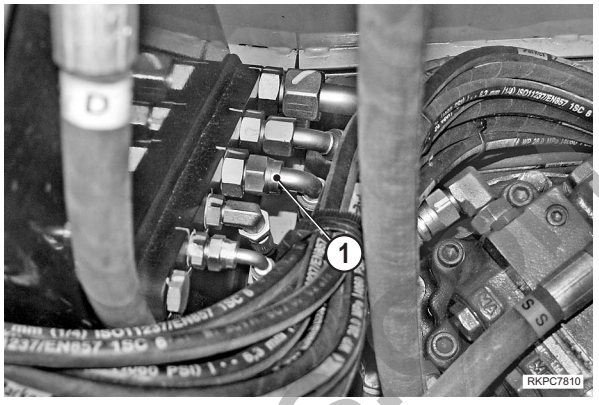
⚠

1 - Drive bucket teeth into the ground to stop the swing motion of the revolving frame and stop the engine..

2 - Loosen the tank cap to relieve pressure and connect a vacuum pump.

3 - Disconnect the motor drain hose (1) from the oil tank.

★ Cap the tank and the hose



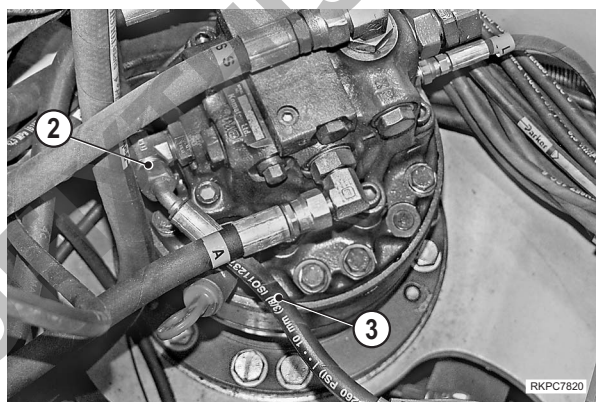
4 - Disconnect the swivel joint drain hose (3) from fitting (2).

5 - Connect a provisional hose to fitting (2) to collect any leaks from the swing motor.

6 - Start the engine, run the engine at Max. speed and perform a swing.

7 - After 30 seconds, measure leakages for 1 minute.

★ After the first measurement, swing the revolving frame by 180° and repeat the test.



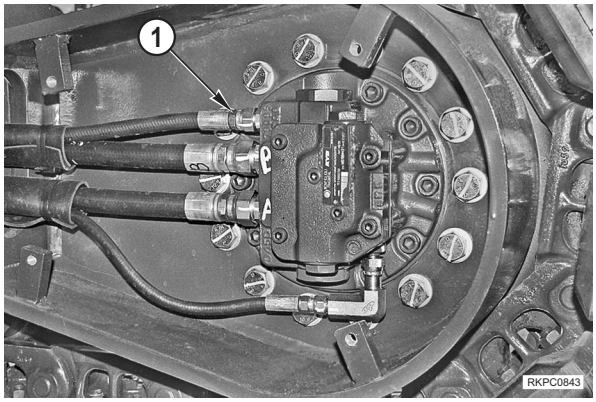
10. Travel motors

1 - Disconnect the drain hose (1) from the motor during the test; plug the hose.

2 - Introduce a block "**A**" between the teeth of the drive wheel (2) and the frame (3), so as to lock the track.

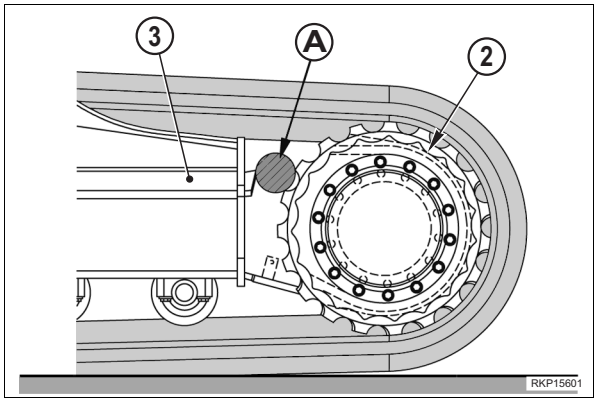
3 - Start the engine, run it at Max. speed and slowly pressurize the circuit.

⚠ Ensure that the block is strong enough not to be ejected out.



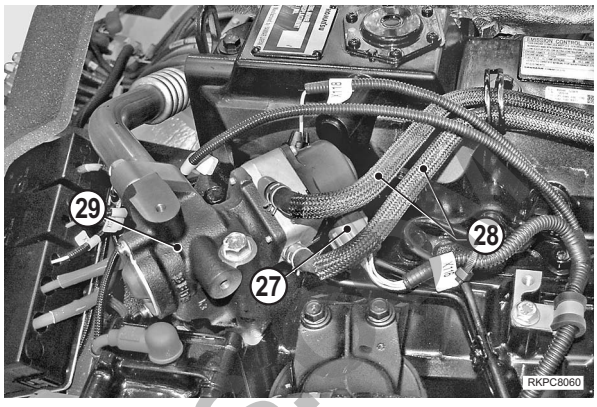
4 - After 30 seconds, measure leakages for 1 minute.

★ Take several measurements of the drive wheel in different positions.

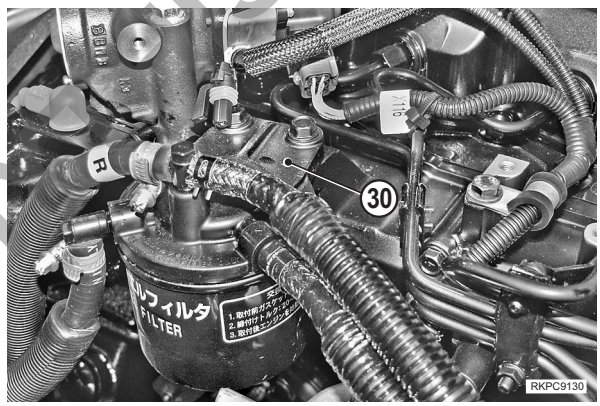


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17 - Disconnect connector (27), disconnect hoses (28) and remove the EGR assembly (29).



18 - Remove the screws (9), remove the fuel filter (30) and place it to a side.



19 - Disconnect the fuel return hose (31) from the engine head.

★ Plug the hose tight to avoid leakage.



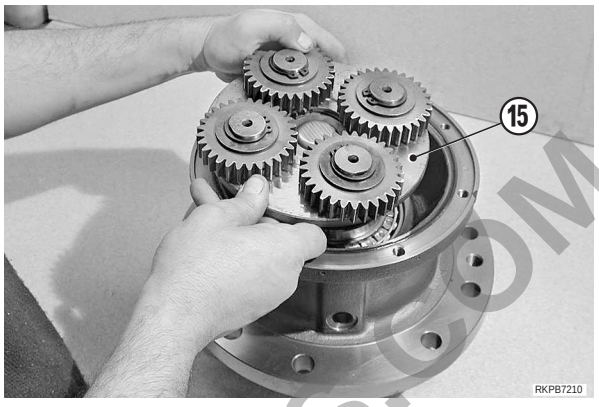
20 - Remove cover (32).



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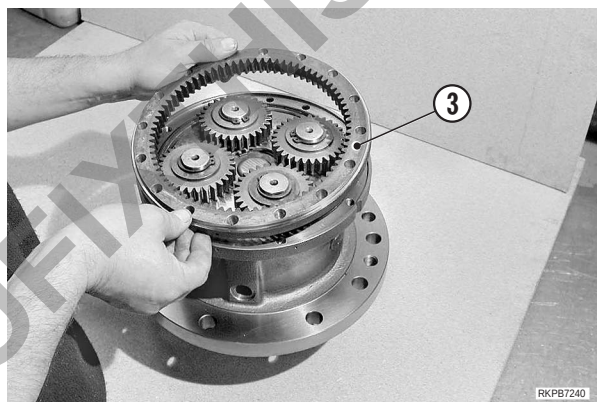
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16 - Install the 2nd sun gear groups (15).

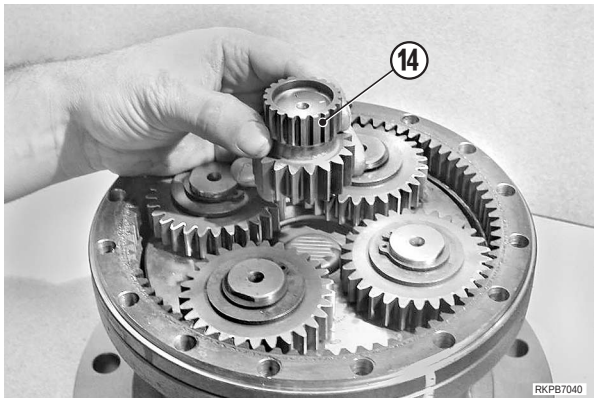


17 - Mount the toothed ring (3).

★ Check the position.

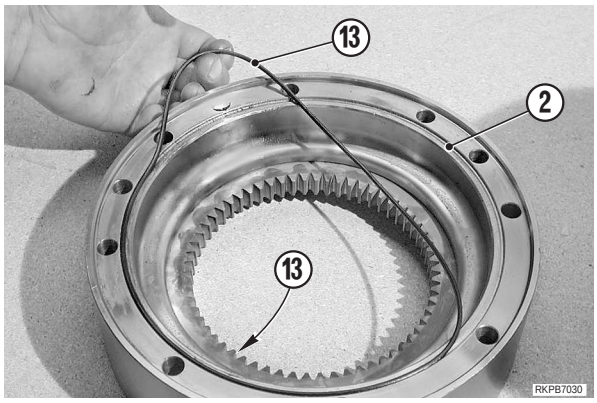


18 - Install 2nd reduction pinion (14).



19 - Lubricate the O-Ring seat and mount the O-Ring (13) in the flange (2).

Seat: ASL800050



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CONTROL MODULES (MACHINE - ENGINE - KOMTRAX)

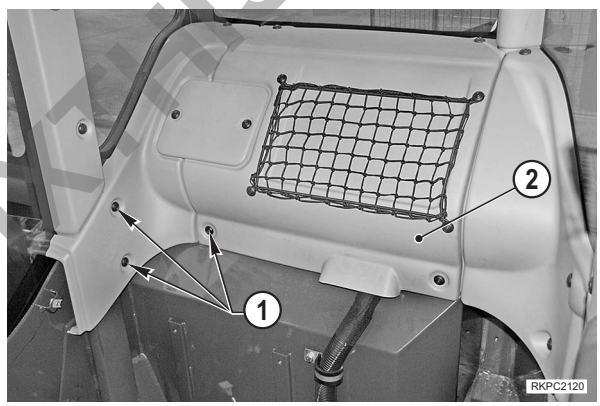
Removal

⚠ Stop the machine on firm level ground, with the attachments to the ground and the safety devices engaged.

⚠ Cycle the battery main switch to the **O** (OFF) position.



1 - Remove screws (1) and remove protective hood (2).



2 - Disconnect the connectors attached to the control module to be removed:
- Machine control module (3).
- Engine control module (4).
- Komtrax control module (5).

3 - Remove the screws and remove the control module.



Installation

- To install, reverse the removal procedure.

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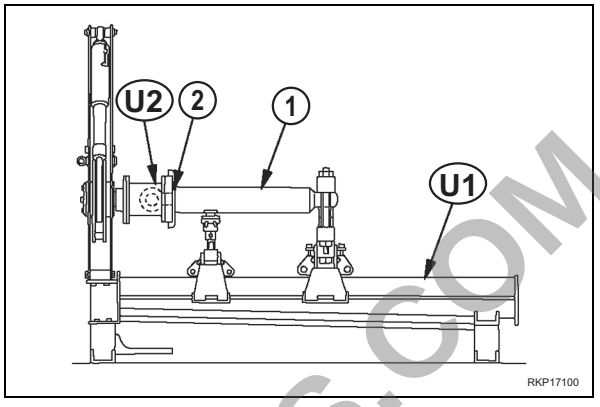
CYLINDERS

Disassembly

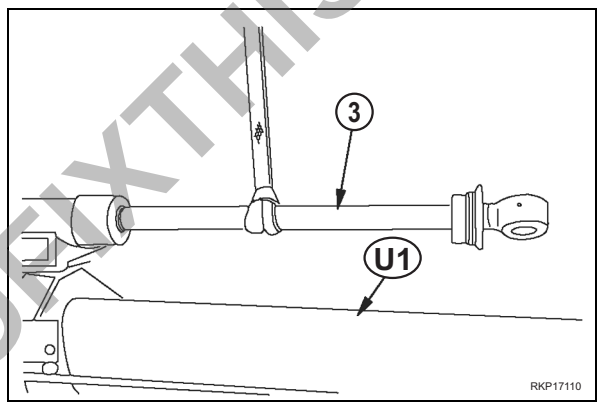
1. CYLINDER

1 - Position cylinder (1) to equipment **U1**.

2 - Using wrench **U2** with torque amplifier, loosen the head (2).



3 - Extract the entire piston (3).



2. PISTON ROD

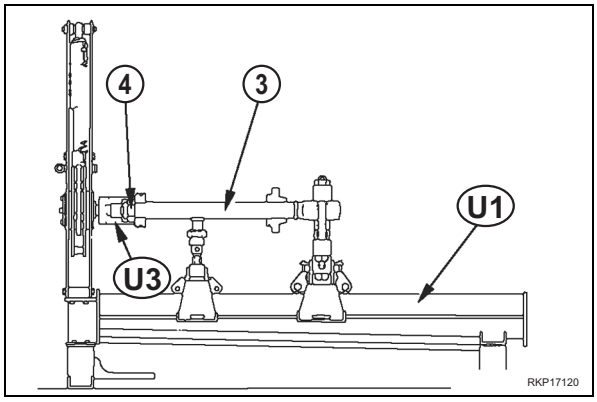
1 - Position piston rod (3) to equipment **U1**.

2 - Using a wrench with torque amplifier and tool **U3**, remove nut (4) from piston (5).

Width across flats of socket:

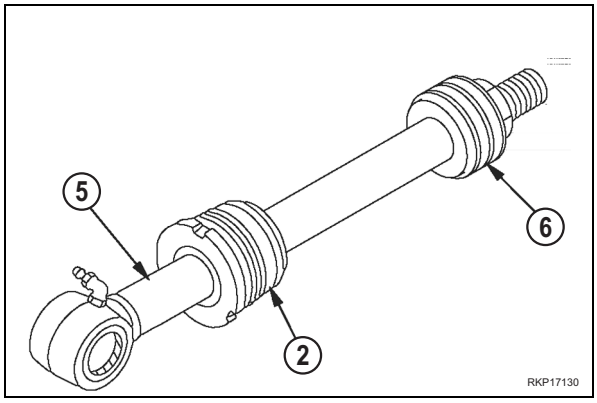
Unit: mm

Cylinder	Boom	Arm	Bucket	Boom swing	Blade
Wrench	70	70	60	70	75



3 - Remove the entire piston (6).

4 - Remove head (2).



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