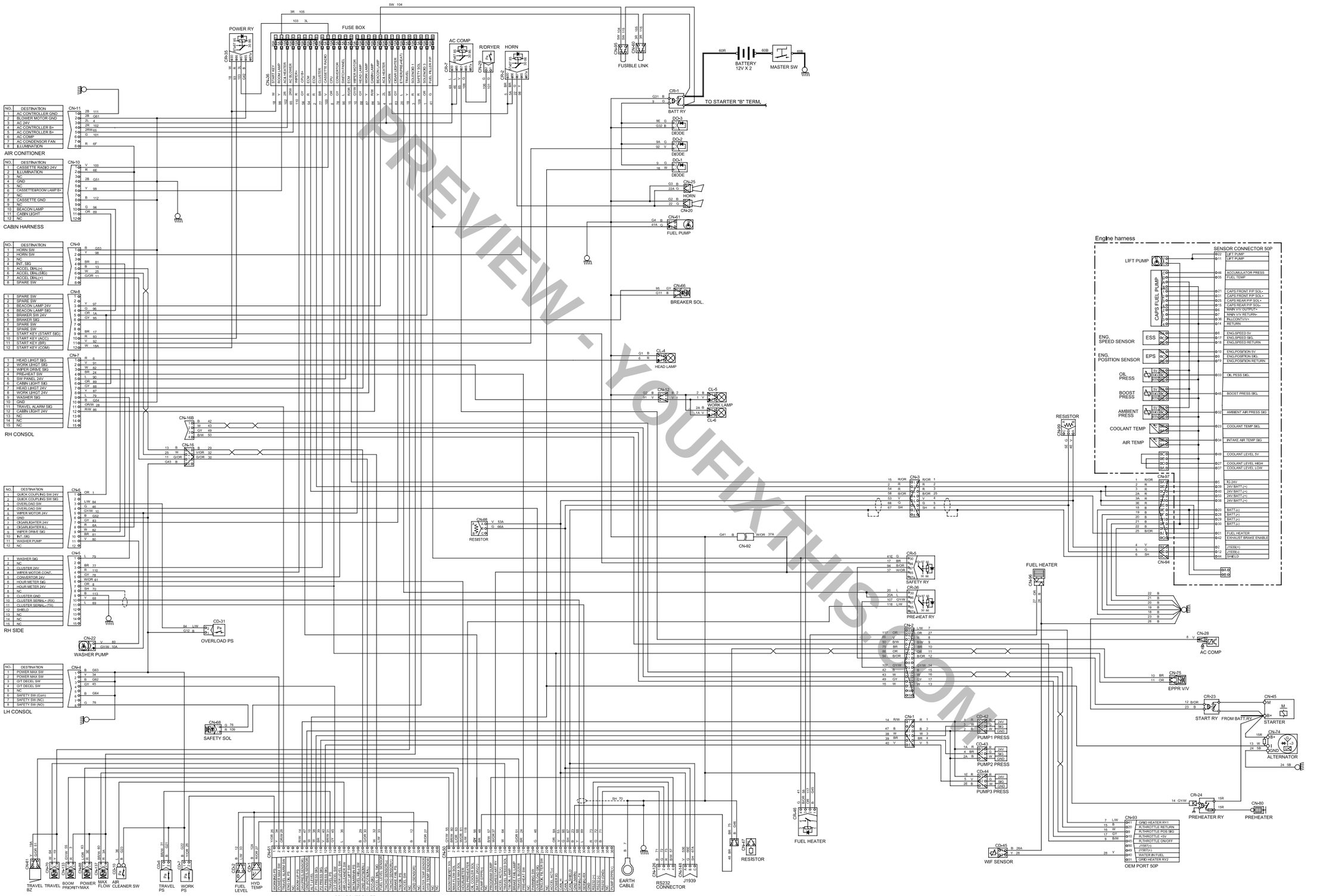
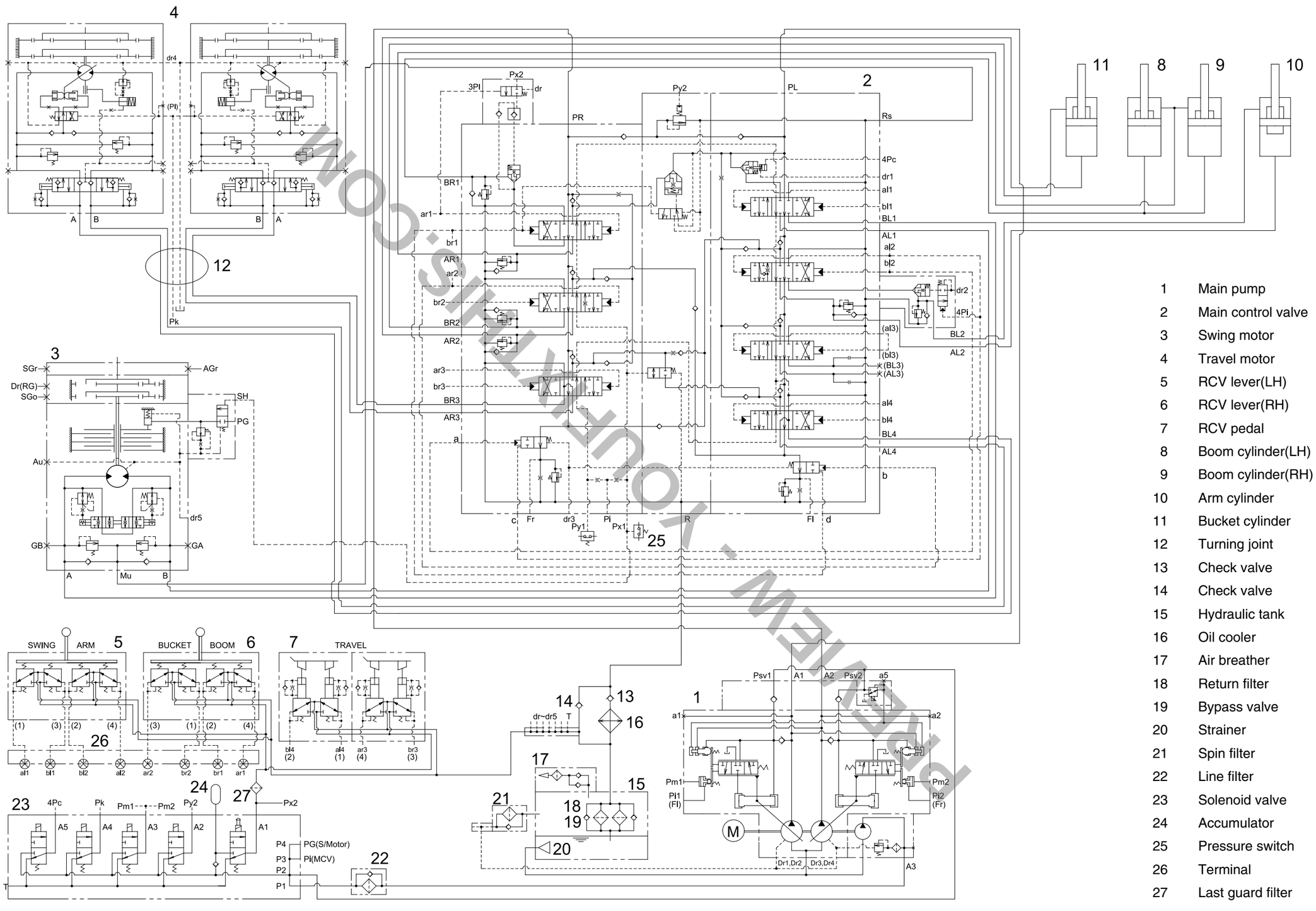
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36074CI01

GROUP 1 HYDRAULIC CIRCUIT



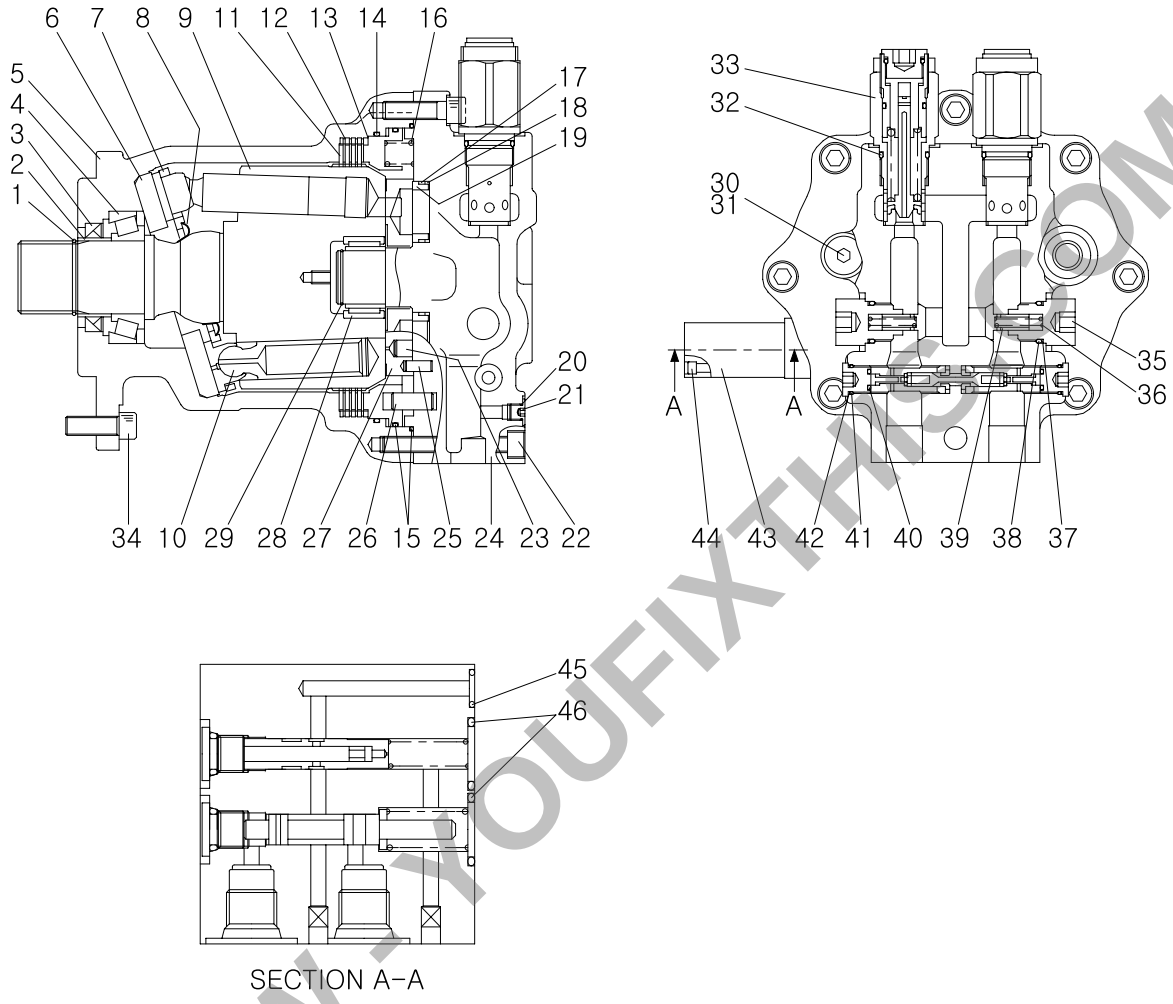
1 Main pump
2 Main control valve
3 Swing motor
4 Travel motor
5 RCV lever(LH)
6 RCV lever(RH)
7 RCV pedal
8 Boom cylinder(LH)
9 Boom cylinder(RH)
10 Arm cylinder
11 Bucket cylinder
12 Turning joint
13 Check valve
14 Check valve
15 Hydraulic tank
16 Oil cooler
17 Air breather
18 Return filter
19 Bypass valve
20 Strainer
21 Spin filter
22 Line filter
23 Solenoid valve
24 Accumulator
25 Pressure switch
26 Terminal
27 Last guard filter

36073HC01

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2. DISASSEMBLY AND ASSEMBLY OF SWING MOTOR

1) STRUCTURE



36072SM02

1	Snap ring	17	Teflon ring	32	O-ring
2	Inner ring	18	Disk spring	33	Relief assembly
3	Oil seal	19	Bushing	34	Socket bolt
4	Taper roller bearing	20	Plug	35	Cap
5	Housing	21	O-ring	36	Spring
6	Cam plate	22	Socket bolt	37	Back up ring
7	Return plate	23	Piston	38	O-ring
8	Backing spring	24	Cover	39	Check
9	Cylinder assembly	25	Parallel pin	40	O-ring
10	Piston assembly	26	Parallel pin	41	Backup ring
11	Lining plate	27	Balance plate	42	Bypass valve assembly
12	Free plate	28	Needle bearing	43	Time delay valve
13	Piston	29	Snap ring	44	Socket bolt
14	O-ring	30	Cap	45	O-ring
15	O-ring	31	O-ring	46	O-ring
16	Spring				

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GROUP 2 TIGHTENING TORQUE

1. MAJOR COMPONENTS

No.	Descriptions		Bolt size	Torque	
				kgf · m	lbf · ft
1	Engine	Engine mounting bolt, nut	M24 × 3.0	90 ± 7.0	651 ± 51
2		Radiator mounting bolt	M16 × 2.0	22 ± 1.0	159 ± 7.2
3		Coupling mounting socket bolt	M20 × 2.5	46.5 ± 2.5	336 ± 18.1
4		Main pump housing mounting bolt	M10 × 1.5	2.8 ± 0.3	20.3 ± 2.2
5	Hydraulic system	Main pump mounting socket bolt	M20 × 2.5	42 ± 4.5	304 ± 32.5
6		Main control valve mounting bolt	M16 × 2.0	19.5 ± 1.3	141 ± 9.4
7		Fuel tank mounting bolt	M20 × 2.5	46 ± 5.0	333 ± 36
8		Hydraulic oil tank mounting bolt	M20 × 2.5	46 ± 5.0	333 ± 36
9		Turning joint mounting bolt, nut	M12× 1.75	12.3 ± 1.3	88.9 ± 9.4
10	Power train system	Swing motor mounting bolt	M24 × 3.0	100 ± 15	723 ± 108
11		Swing bearing upper part mounting bolt	M24 × 3.0	97.8 ± 10	707 ± 72.3
12		Swing bearing lower part mounting bolt	M24 × 3.0	97.8 ± 10	707 ± 72.3
13		Travel motor mounting bolt	M20 × 2.5	43.8 ± 4.0	317 ± 29
14		Sprocket mounting bolt	M20 × 2.5	51 ± 4.0	369 ± 28.9
15	Under carriage	Carrier roller mounting bolt, nut	M16 × 2.0	29.7 ± 4.0	215 ± 28.9
16		Track roller mounting bolt	M22 × 2.5	77.4 ± 11	560 ± 79.6
17		Track tension cylinder mounting bolt	M16 × 2.0	29.6 ± 3.2	214 ± 23.1
18		Track shoe mounting bolt, nut	3/4-16UNF	78 ± 3.0	564 ± 21.7
19		Track guard mounting bolt	M22 × 2.5	77.4 ± 11	560 ± 79.6
20	Others	Counter weight mounting bolt	M36 × 3.0	308 ± 46	2228 ± 333
21		Cab mounting bolt	M12 × 1.75	12.8 ± 3.0	92.6 ± 21.7
22		Operator's seat mounting bolt	M 8 × 1.25	4.05 ± 0.8	29.3 ± 5.8

※ For tightening torque of engine and hydraulic components, see each component disassembly and assembly.

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5. ERROR CODES TABLE

Error code No.	Description
1	Short circuit in accel actuator system
2	Potentiometer circuit is shorted to Vcc(5V) or battery +
3	Short circuit in pump EPPR valve system
4	Short circuit in boom down EPPR valve system
5	Short circuit in travel speed solenoid system
6	Short circuit in power boost solenoid system
7	Short circuit in max flow solenoid system
10	Short circuit in hour-meter system
11	Accel dial circuit is shorted to Vcc(5V) or battery +
12	P1 pressure sensor circuit is shorted to power supply(24V) line
13	P2 pressure sensor circuit is shorted to power supply(24V) line
14	P3 pressure sensor circuit is shorted to power supply(24) line
15	Boom down pressure circuit is shorted to power supply(24V) line
16	Accel actuator circuit is open or shorted to ground
17	Potentiometer circuit is open or shorted to ground
18	Pump EPPR valve circuit is open or shorted to ground
19	Boom down EPPR valve circuit is open or shorted to ground
20	Travel speed solenoid circuit is open or shorted to ground
21	Power boost solenoid circuit is open or shorted to ground
22	Max flow solenoid circuit is open or shorted to ground
25	Hour-meter circuit is open or shorted to ground
26	Accel dial circuit is open or shorted to ground
27	P1 pressure sensor circuit is open or shorted to ground
28	P2 pressure sensor circuit is open or shorted to ground
29	P3 pressure sensor circuit is open or shorted to ground
30	Boom down pressure sensor circuit is open or shorted to ground
31	Engine preheater circuit is open or shorted to ground
32	Travel alarm buzzer circuit is open or shorted to ground
33	Alternator circuit is open or shorted to ground
34	Controller input voltage is below 18V
35	Controller input voltage is over 38V
36	Communication error with cluster
37	Engine speed sensor circuit is open or shorted to ground
38	Anti-restart relay circuit is open or shorted to ground
39	Accel actuator does not stop at a target position
40	There is more than 500rpm difference between target speed and actual speed

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1. REMOVAL AND INSTALL OF MOTOR

1) REMOVAL

(1) Lower the work equipment to the ground and stop the engine.

(2) Operate the control levers and pedals several times to release the remaining pressure in the hydraulic piping.

(3) Loosen the breather slowly to release the pressure inside the hydraulic tank.

⚠ Escaping fluid under pressure can penetrate the skin causing serious injury.

※ When pipes and hoses are disconnected, the oil inside the piping will flow out, so catch it in oil pan.

(4) Disconnect hoses (2, 3, 4, 5, 6, 7, 8, 9).

(5) Sling the swing motor assembly(1) and remove the swing motor mounting bolts (10).

- Motor device weight : 360kg(794lb)
- Tightening torque :100±15kgf · m (723±108lbf · ft)

(6) Remove the swing motor assembly.

※ When removing the swing motor assembly, check that all the piping have been disconnected.

2) INSTALL

(1) Carry out installation in the reverse order to removal.

(2) Bleed the air from the swing motor.

① Remove the air vent plug.

② Pour in hydraulic oil until it overflows from the port.

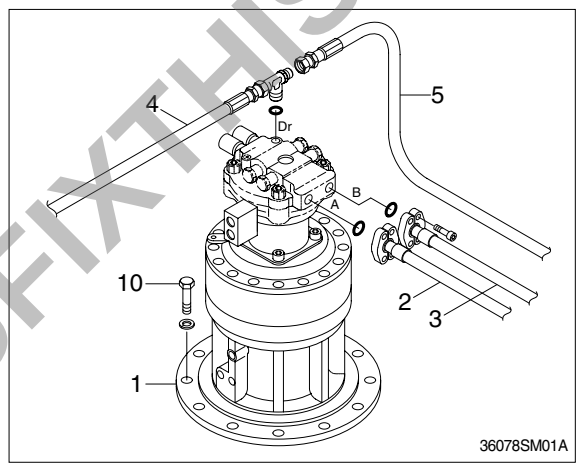
③ Tighten plug lightly.

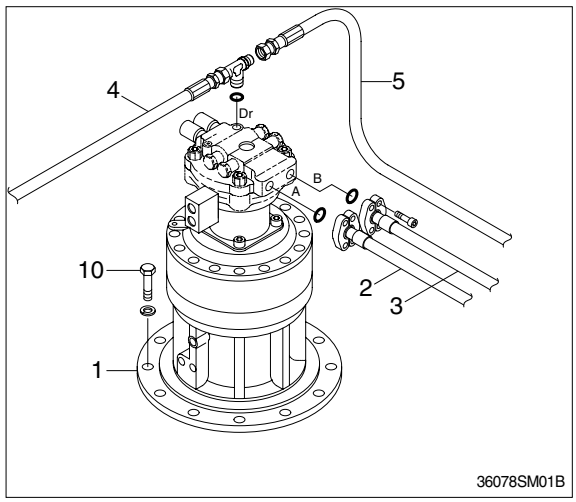
④ Start the engine, run at low idling and check oil come out from plug.

⑤ Tighten plug fully.

(3) Confirm the hydraulic oil level and check the hydraulic oil leak or not.





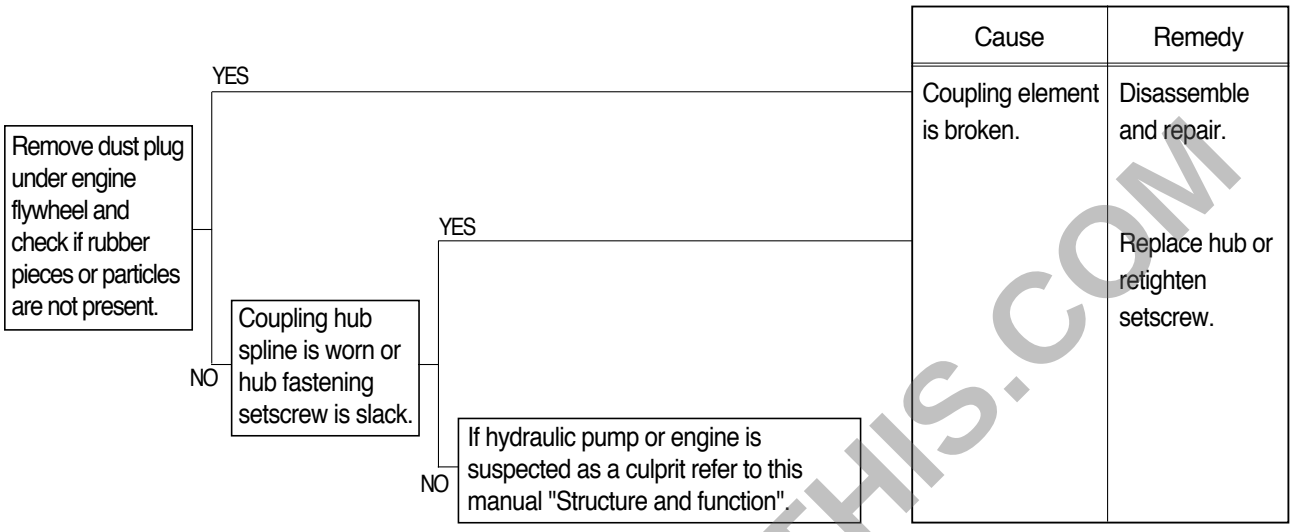


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2. DRIVE SYSTEM

1) UNUSUAL NOISE COMES OUT OF PUMP CONNECTION

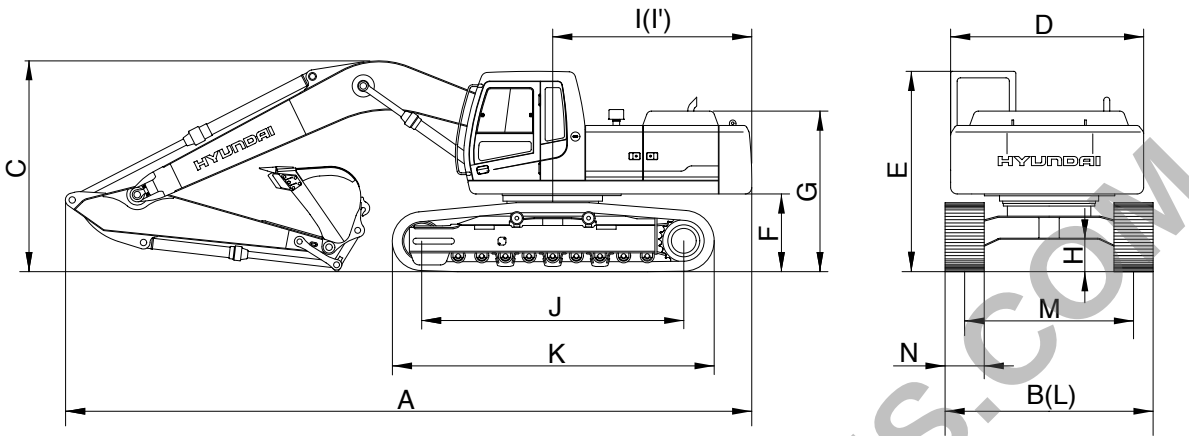


Cause	Remedy
Coupling element is broken.	Disassemble and repair.
	Replace hub or retighten setscrew.

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2. SPECIFICATIONS



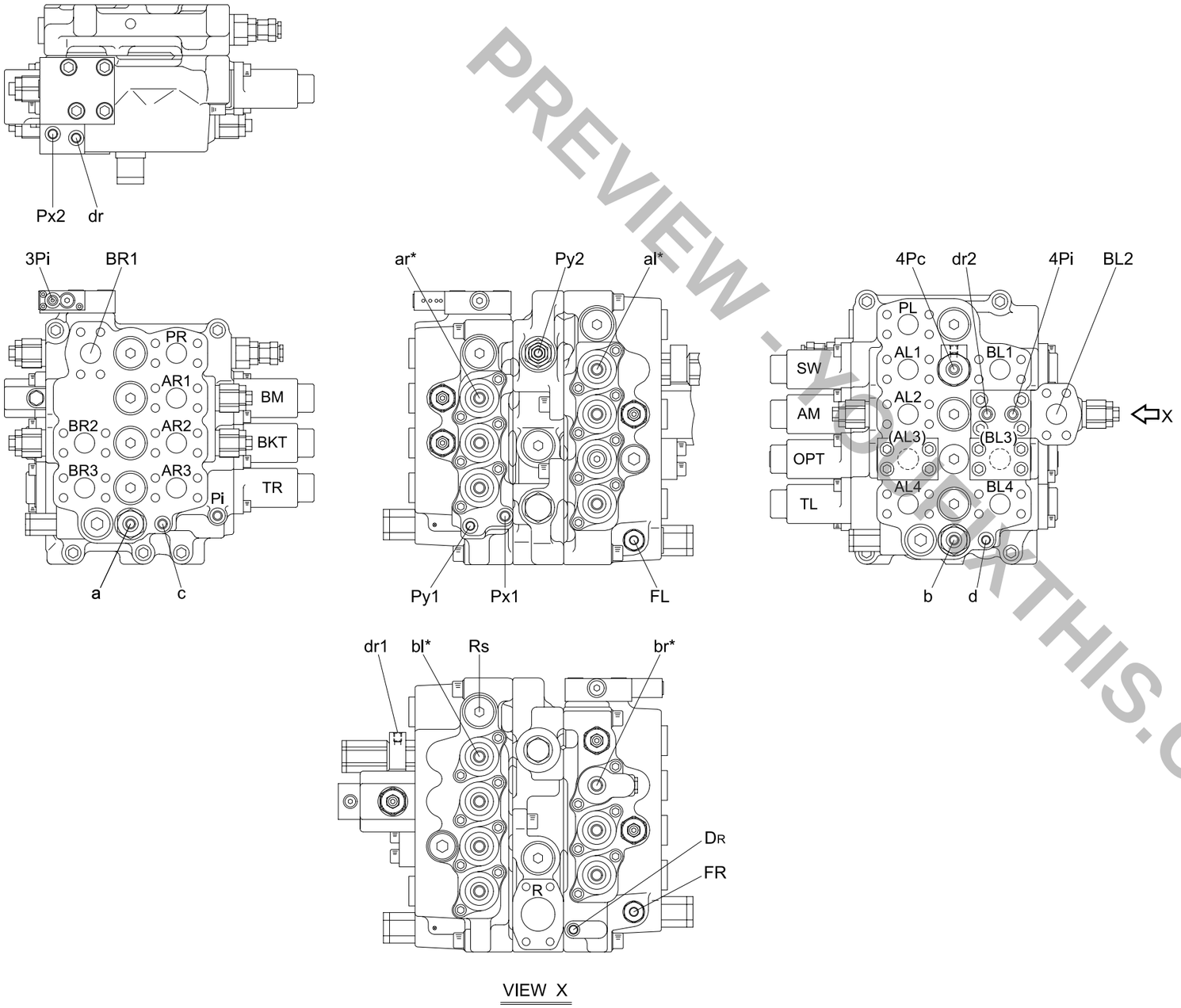
36072SP01

Description		Unit	Specification
Operating weight		kg(lb)	36100(79590)
Bucket capacity(PCSA heaped), standard		$m^3(yd^3)$	1.62(2.12)
Overall length	A	mm(ft-in)	11120(36' 6")
Overall width, with 600mm shoe	B		3440(11' 3")
Overall height	C		3440(11' 3")
Superstructure width	D		2980(9' 9")
Overall height of cab	E		3175(10' 5")
Ground clearance of counterweight	F		1290(4' 3")
Engine cover height	G		3190(10' 6")
Minimum ground clearance	H		550(1' 10")
Rear-end distance	I		3350(11' 1")
Rear-end swing radius	I'		3415(11' 2")
Distance between tumblers	J		4340(14' 3")
Undercarriage length	K		5280(17' 4")
Undercarriage width	L		3340(11' 0")
Track gauge	M		2740(9' 0")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.2/4.5(2.0/2.8)
Swing speed		rpm	9.1
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		$kgf/cm^2(psi)$	0.64(9.10)

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1. STRUCTURE



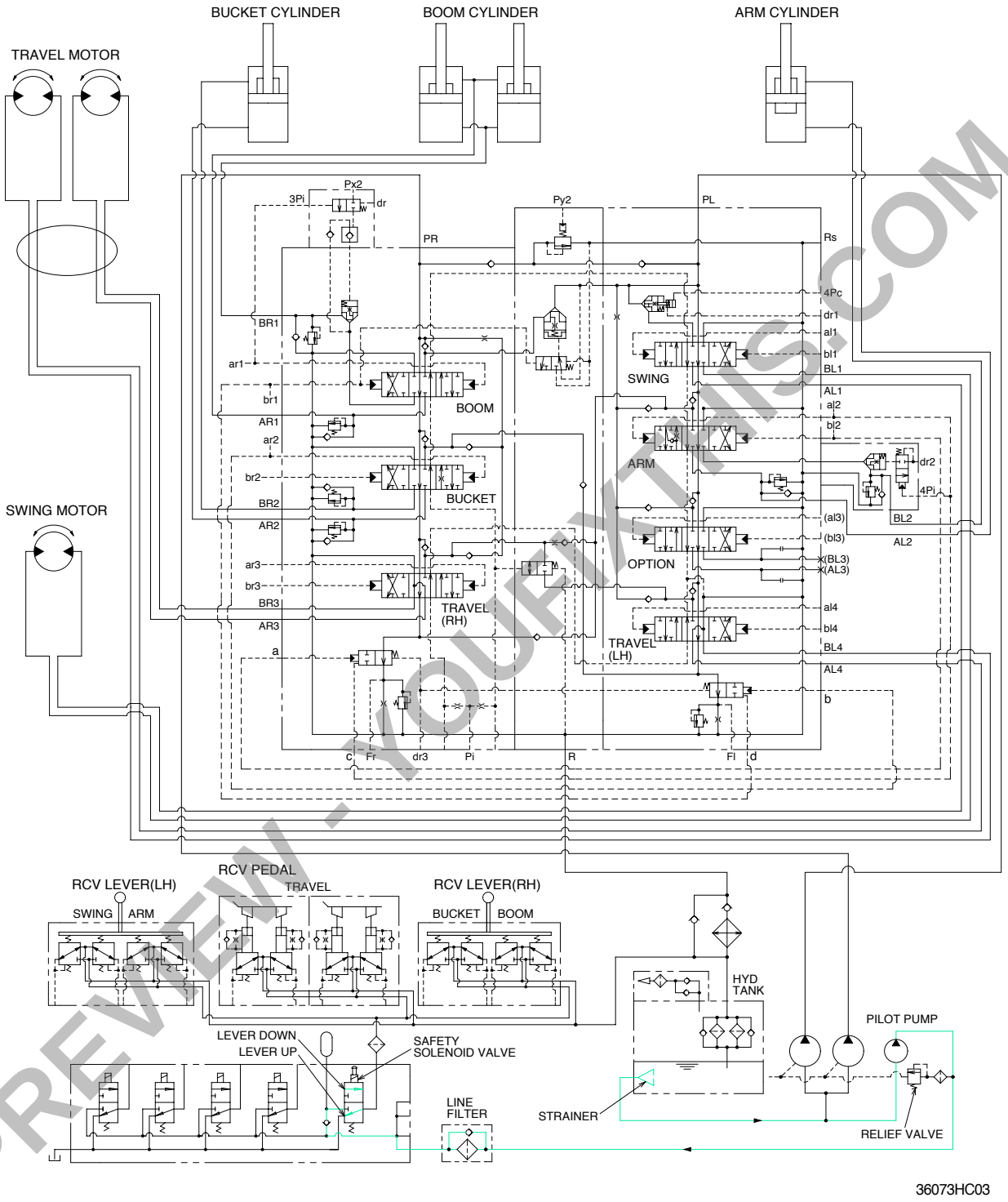
VIEW X

MARK	Port name	Port size
a	Arm out confluence port	PF 1/4
b	Bucket in confluence port	
c	Arm in confluence port	
d	Boom up confluence port	
DR/dr	Drain port	
dr1	Drain port	
dr2	Drain port	
FL	Negative control signal port(PL port side)	
FR	Negative control signal port(PR port side)	
Pi	Pilot pressure port	
3Pi	Lock valve pilot port(Boom)	
4Pi	Lock valve pilot port(Arm)	
4Pc	Swing logic valve pilot port	
Px1	Signal port for attachment	
Px2	Pilot pressure port for lock valve(Boom)	
Py1	Signal port for travel	
Py2	Main relief pilot pressure port	
al*	Pilot port	PF 3/8
ar*	Pilot port	
bl*	Pilot port	
br*	Pilot port	
Rs	Swing motor make up port	PF 1
AL1	Swing motor port(RH)	ø 32
AL2	Arm head side port(In)	
AL3	Option port	
AL4	Travel motor port(LH, Forward)	
AR1	Boom rod side port(Down)	
AR2	Bucket head side port(In)	
AR3	Travel motor port(RH, Forward)	
BL1	Swing motor port(LH)	
BL2	Arm rod side port(Out)	
BL3	Option port	
BL4	Travel motor port(LH, Reverse)	
BR1	Boom head side port(Up)	
BR2	Bucket rod side port(Out)	
BR3	Travel motor port(RH, Reverse)	
R	Return port	ø 50

36072MC01

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2. SAFETY SOLENOID VALVE(SAFETY LEVER)



When the lever of the safety solenoid valve is moved downward, oil flows into the remote control valve through solenoid valve and line filter.

When the lever of the safety solenoid valve moved upward, oil does not flows into the remote control valve, because of blocked by the spool.

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3. CHARGING CIRCUIT

When the starter is activated and the engine is started, the operator releases the key switch to the ON position.

Charging current generated by operating alternator flows into the battery through the battery relay (CR-1).

The current also flows from alternator to each electrical component and controller through the fuse box.

1) OPERATING FLOW

(1) Warning flow

Alternator "I" terminal → I/conn〔CN-2(13)〕→ CPU alternator level〔CN-51(9)〕
Cluster charging warning lamp(Via serial interface)

(2) Charging flow

Alternator "B^+" terminal → Battery relay(M8) → Battery(+) terminal
Battery relay(M8) → Fusible link〔CN-60〕→ Fuse box

2) CHECK POINT

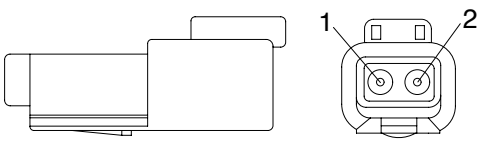
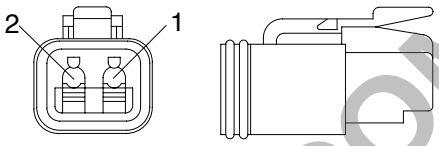
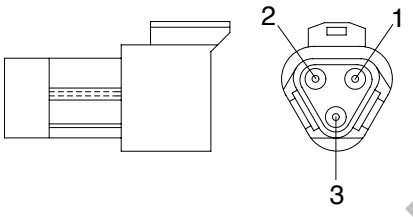
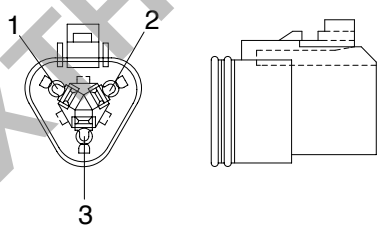
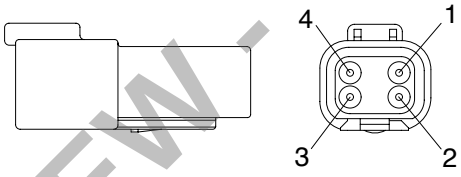
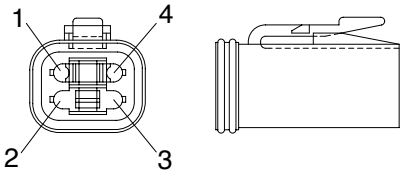
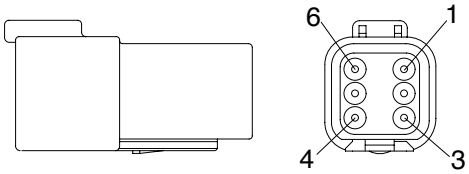
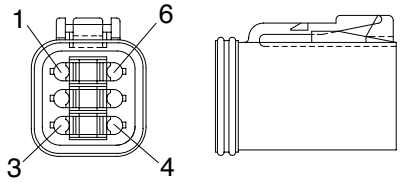
Engine	Start switch	Check point	Voltage
Run	ON	① - GND(Battery voltage) ② - GND(Battery relay) ③ - GND(Alternator B^+ terminal) ④ - GND(Alternator I terminal) ⑤ - GND(CPU)	20~30V

※ GND : Ground

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14) DEUTSCH DT CONNECTORS

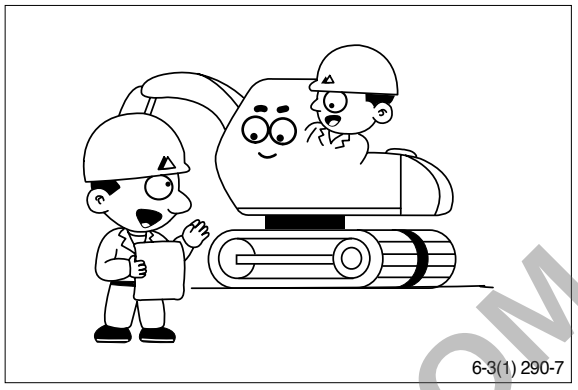
No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 DT06-2S	 DT06-2P
3	 DT06-3S	 DT06-3P
4	 DT06-4S	 DT06-4P
6	 DT06-6S	 DT06-6P

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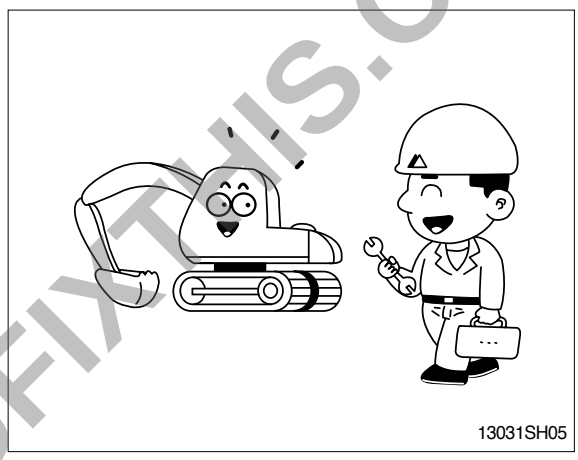
STEP 4. Inspect the trouble actually on the machine

In case that some trouble cannot be confirmed, obtain the details of the malfunction from the operator.
Also, check if there are any in complete connections of the wire harnesses are or not.


6-3(1) 290-7

STEP 5. Perform troubleshooting

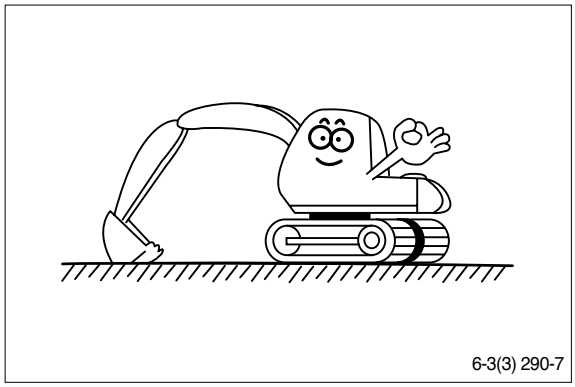
According to where the trouble parts are located, hydraulic & mechanical system part or electrical system part or mechatronics system part, perform troubleshooting the machine refer to the each system part's troubleshooting process diagram.


13031SH05

STEP 6. Trace a cause

Before reaching a conclusion, check the most suspectible causes again. Try to trace what the real cause of the trouble is.

Make a plan of the appropriate repairing procedure to avoid consequential malfunctions.

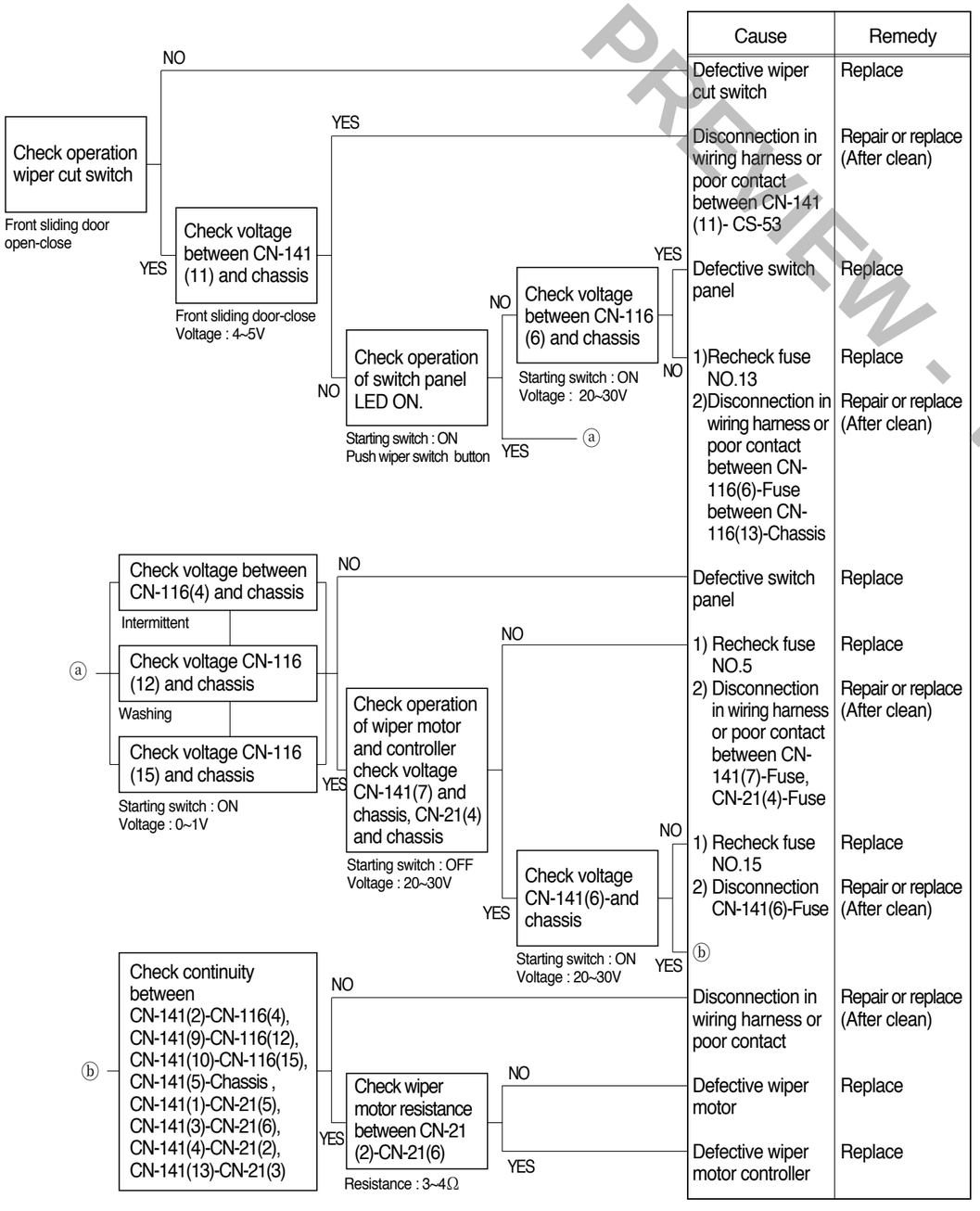

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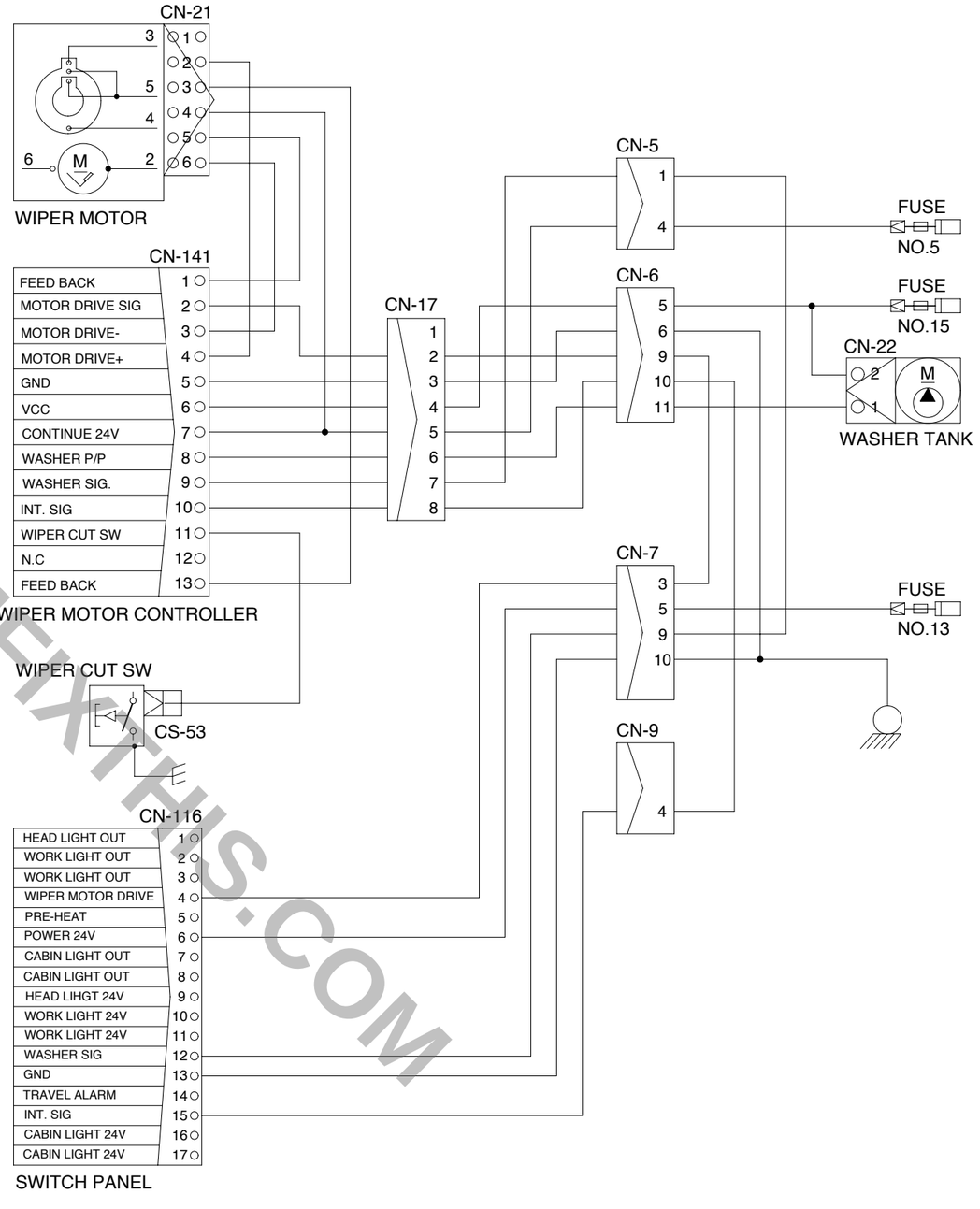
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14. WHEN STARTING SWITCH IS TURNED ON, WIPER MOTOR DOES NOT OPERATE

- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted and the fuse No.5,13 and 15 is not blown out.
- After checking, insert the disconnected connectors again immediately unless otherwise specified.



Cause	Remedy
Defective wiper cut switch	Replace
Disconnection in wiring harness or poor contact between CN-141 (11)- CS-53	Repair or replace (After clean)
Defective switch panel	Replace
1)Recheck fuse NO.13 2)Disconnection in wiring harness or poor contact between CN-116(6)-Fuse between CN-116(13)-Chassis	Replace Repair or replace (After clean)
Defective switch panel	Replace
1) Recheck fuse NO.5 2) Disconnection in wiring harness or poor contact between CN-141(7)-Fuse, CN-21(4)-Fuse	Replace Repair or replace (After clean)
1) Recheck fuse NO.15 2) Disconnection CN-141(6)-Fuse	Replace Repair or replace (After clean)
ⓑ	
Disconnection in wiring harness or poor contact	Repair or replace (After clean)
Defective wiper motor	Replace
Defective wiper motor controller	Replace



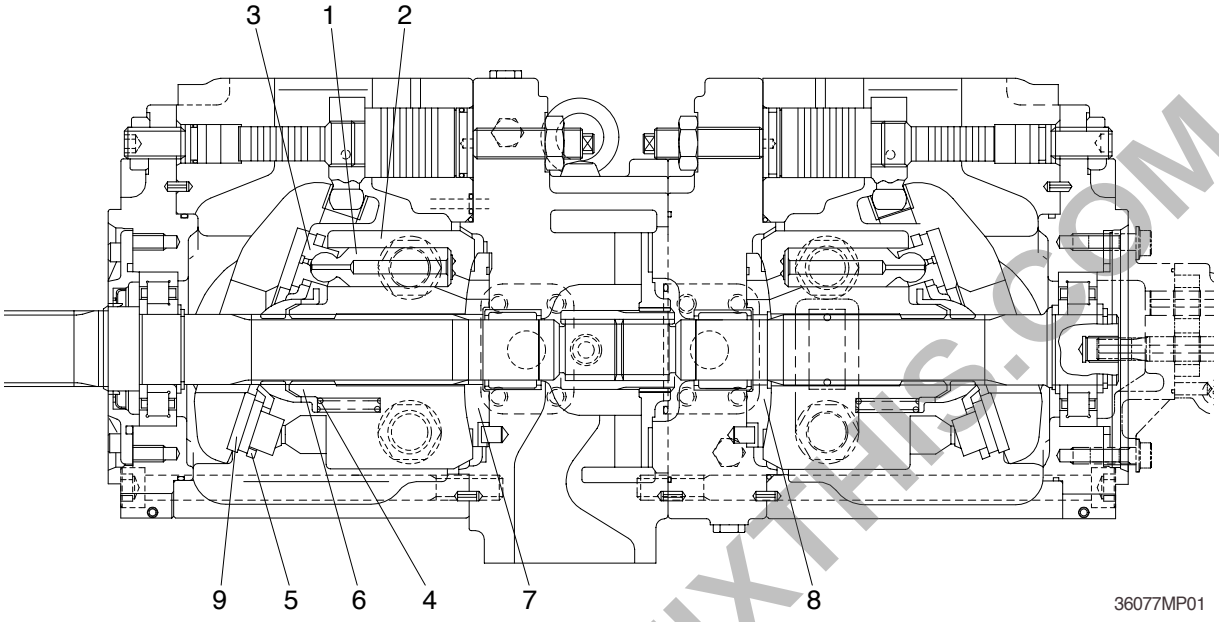
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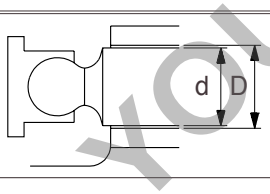
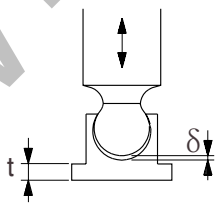
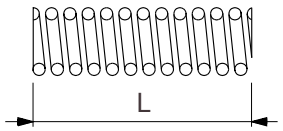
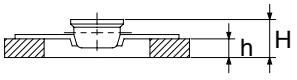
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GROUP 2 MAJOR COMPONENT

1. MAIN PUMP

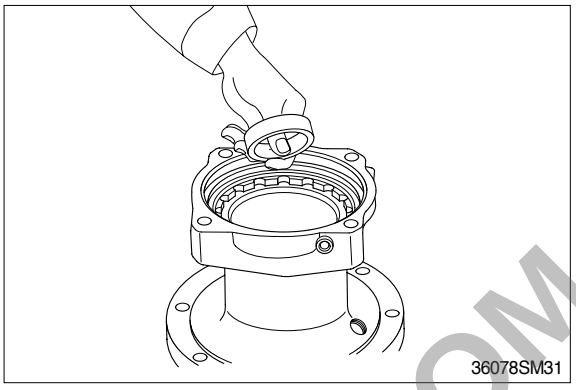


Part name & inspection item		Standard dimension	Recommended replacement value	Counter measures
Clearance between piston(1) & cylinder bore(2) (D-d)		0.038	0.078	Replace piston or cylinder.
Play between piston(1) & shoe caulking section(3) (δ)		0-0.1	0.35	Replace assembly of piston & shoe.
Thickness of shoe (t)		5.4	5.0	
Free height of cylinder spring(4) (L)		40.9	40.1	Replace cylinder spring.
Combined height of set plate(5) & spherical bushing(6) (H-h)		23.8	22.8	Replace retainer or set plate.
Surface roughness for valve plate(Sliding face)(7,8), swash plate (shoe plate area)(9), & cylinder(2)(Sliding face)	Surface roughness necessary to be corrected	3z		Lapping
	Standard surface roughness (Corrected value)	0.4z or lower		

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(4) Assemble outer race of taper roller bearing(4) to motor housing(5).

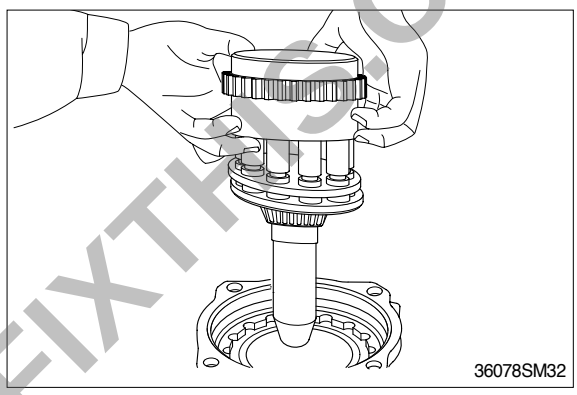


(5) Assembly of cylinder assembly

Hold end of cylinder(9) with hands and assemble cylinder assembly to housing (5). Be careful to prevent damage of seal by spline of shaft.

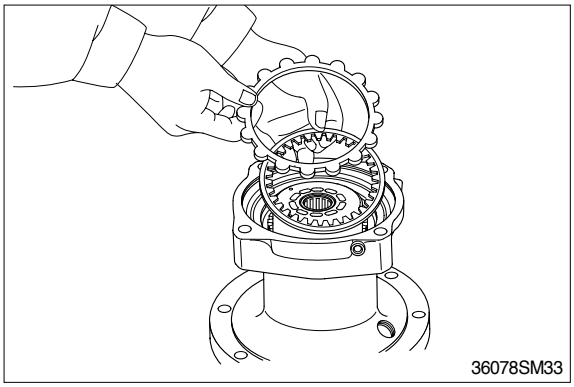
※ When assembling cylinder assembly, spline shaft of cylinder is protruded from end of housing, therefore put pads with length 60~80 mm under bottom of housing.

Make sure that backing spring(8) is placed on the groove of return plate(7).



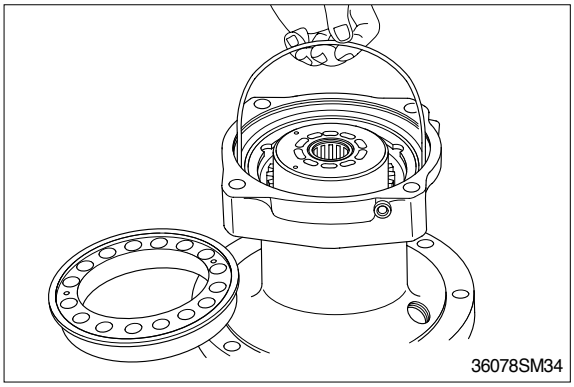
(6) Assemble lining plate(11) and mating plate(12).

※ Lubricate specified hydraulic oil on each side.



(7) Insert O-rings(14,15) into housing(5) and piston(13).

※ Lubricate O-ring with grease.



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② Insert spring pin(13) by hammering.

※ Insert as the clearance between spring pins toward planetary gear 2(10).



3607A8SR20

(7) Assembly of carrier 2 assembly and sun gear 2

① Mount eye bolt into tap hole(M10) of carrier 2(8) and lift carrier assembly and then insert carrier assembly being engaged with internal teeth of ring gear (22). Rotate carrier assembly lightly so that splines of drive shaft(2) are engaged.



3607A8SR21

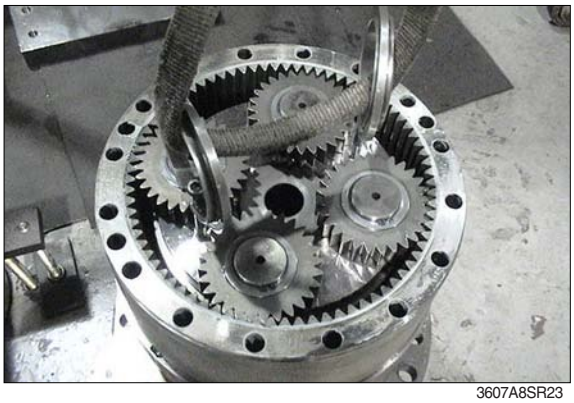
② Insert sun gear 2(9) to planetary gear 2 (10).



3607A8SR22

(8) Assembly of sun gear 1, carrier 1 assembly

① Mount eye bolt into tap hole(M10) of lift carrier assembly and then insert carrier assembly being engaged with internal teeth of ring gear(22).
Rotate holder assembly lightly so that sun gear 2(9) is engaged with teeth of carrier 1(15).



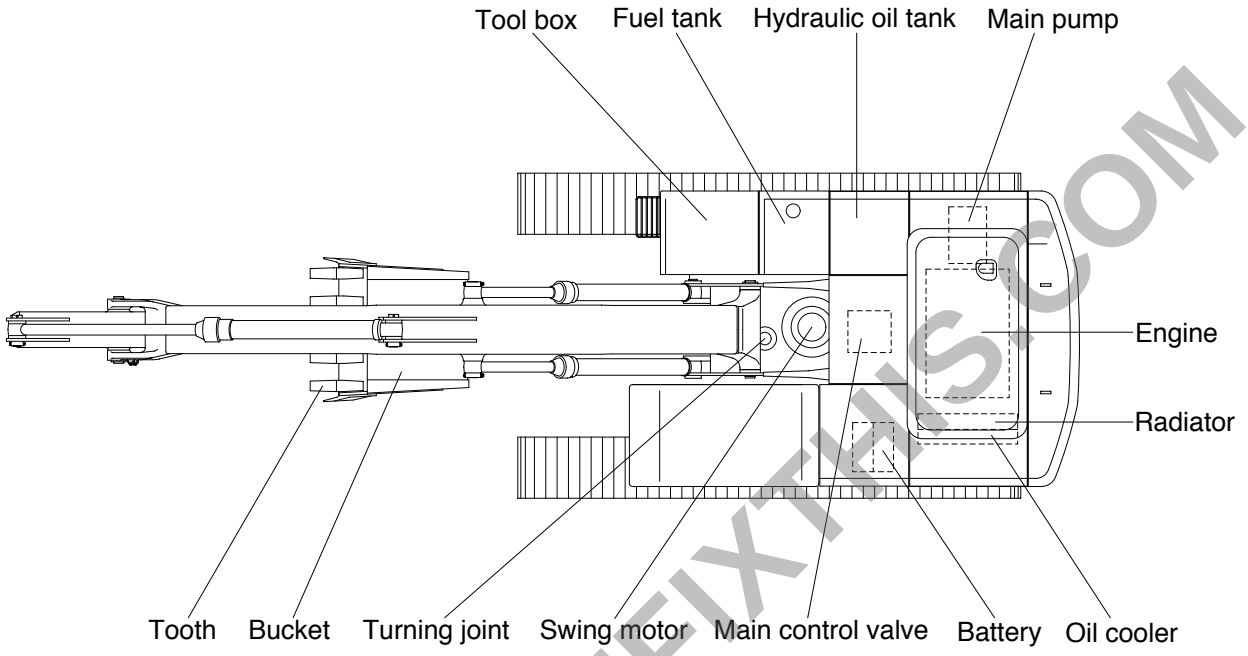
3607A8SR23

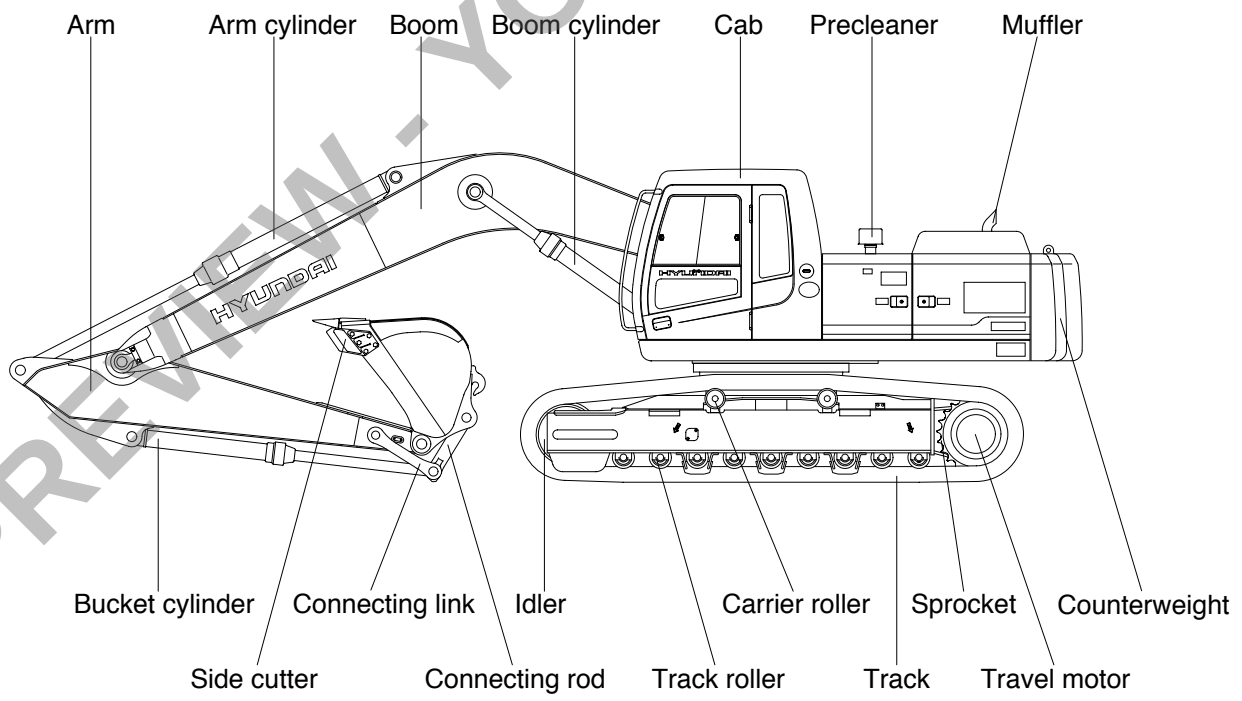
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GROUP 2 SPECIFICATIONS

1. MAJOR COMPONENT





36072SP00

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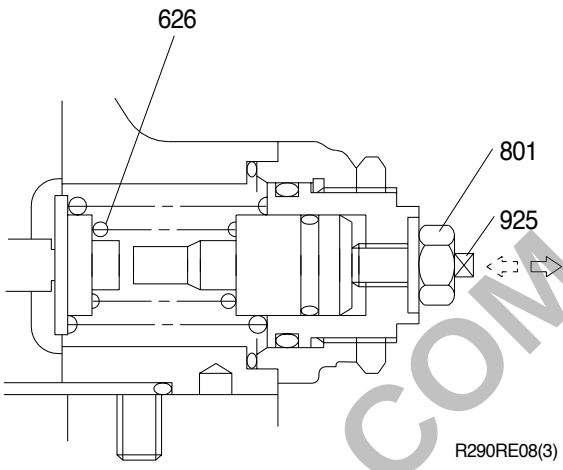
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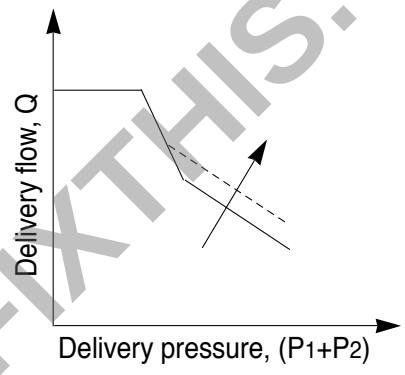
b. Adjustment of inner spring

Adjust it by loosening the hexagon nut (801) and by tightening(or loosening) the adjusting screw QI(925). Tightening the screw increases the flow and then the input horsepower as shown in the figure.

※ Adjusting valves are shown in table.

Speed	Adjustment of inner spring		
	Tightening amount of adjusting screw(QI) (925)	Compens-ating control starting pressure change amount	Input torque change amount
(min $^{-1}$)	(Turn)	(kgf/cm^2)	(kgf · m)
1900	+1/4	+15	+7



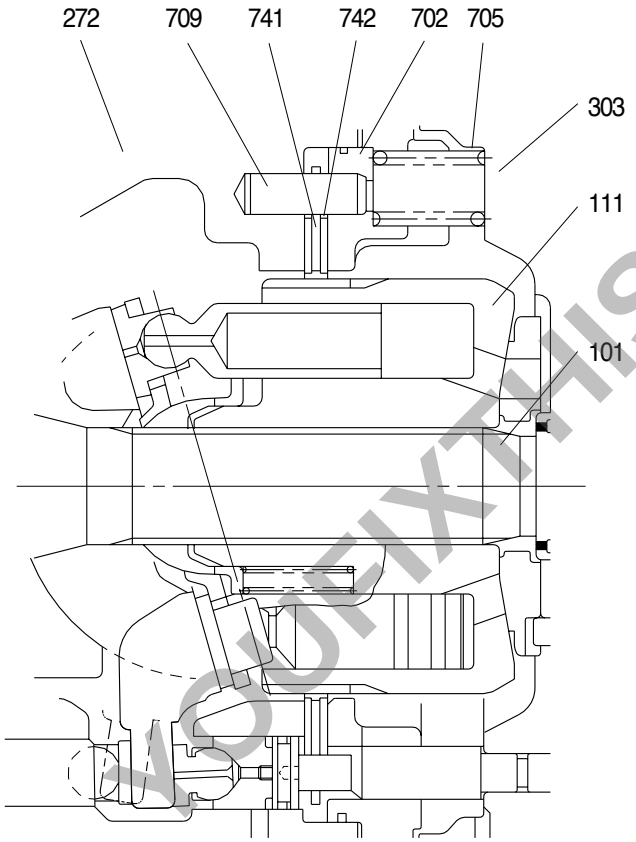


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5) NEGATIVE BRAKE

The negative brake is released applying to the brake piston (702) the pressure led through the built-in counterbalance spool sub-assembly (022).
With no pressure working, the brake force is always ensured.



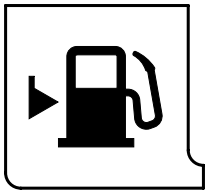
R290TM07(1)

The brake force is the friction force generated on the surfaces of the friction plates (742) spline-coupled with the cylinder block, when their rotation is restricted by the casing (272), separator plate (741), and brake piston all connected with the pins (709).
Without pressure being applied to the brake piston, the brake piston is pushed by ten brake springs (705), and the friction plate and separator plate are held between the brake piston and casing.
This holding force functions as the friction force. This friction force restrains the shaft (101) spline-coupled with the cylinder block, and thus functions the brake.

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5) Fuel low level warning lamp

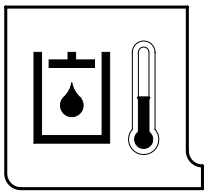


21073CD04A

(1) This lamp blinks and the buzzer sounds when the level of fuel is below 49 ℓ (12.9U.S. gal).

(2) Fill the fuel immediately when the lamp blinks.

6) Hydraulic oil temperature warning lamp

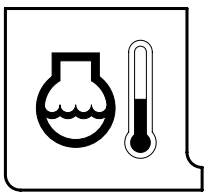


21073CD05A

(1) This lamp blinks and the buzzer sounds when the temperature of coolant is over the normal temperature 105。C(221。F) .

(2) Check the cooling system when the lamp blinks.

7) Overheat warning lamp



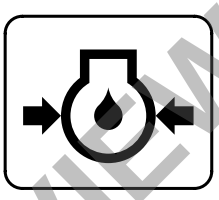
21073CD06A

(1) This warning lamp operates and the buzzer sounds when the temperature of hydraulic oil is over 105。C(221。F).

(2) Check the hydraulic oil level when the lamp blinks.

(3) Check for debris between oil cooler and radiator.

8) Engine oil pressure warning lamp

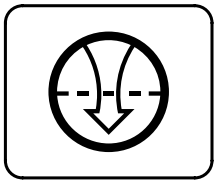


21073CD07

(1) This lamp blinks and the buzzer sounds after starting the engine because of the low oil pressure.

(2) If the lamp blinks during engine operation, shut OFF engine immediately. Check oil level.

9) Air cleaner warning lamp



21073CD08

(1) This lamp blinks and the buzzer sounds when the filter of air cleaner is clogged.

(2) Check the filter and clean or replace it.

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GROUP 4 MAIN CONTROL VALVE

1. REMOVAL AND INSTALL OF MOTOR

1) REMOVAL

(1) Lower the work equipment to the ground and stop the engine.

(2) Operate the control levers and pedals several times to release the remaining pressure in the hydraulic piping.

(3) Loosen the breather slowly to release the pressure inside the hydraulic tank.

⚠ Escaping fluid under pressure can penetrate the skin causing serious injury.

※ When pipes and hoses are disconnected, the oil inside the piping will flow out, so catch it in oil pan.

(4) Remove bolts and disconnect pipes.

(5) Disconnect pilot line hoses.

(6) Disconnect pilot pipes.

(7) Sling the control valve assembly and remove the control valve mounting bolts.
· Weight : 250kg(550lb)

(8) Remove the control valve assembly.
When removing the control valve assembly, check that all the piping have been disconnected.

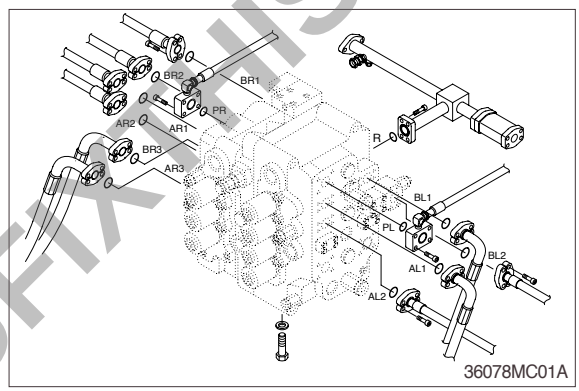
2) INSTALL

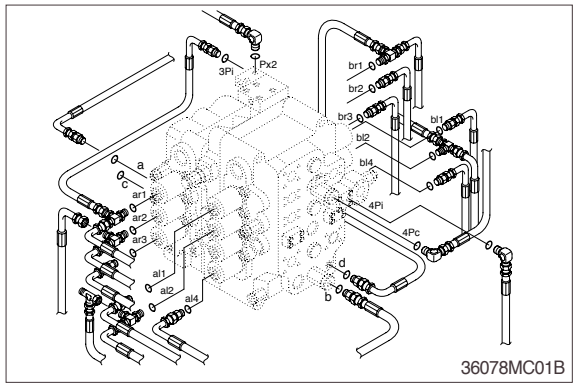
(1) Carry out installation in the reverse order to removal.

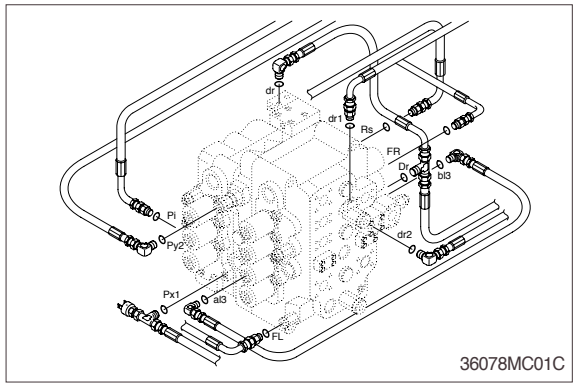
(2) Bleed the air from below items.
① Cylinder(Boom, arm, bucket)
② Swing motor
③ Travel motor
※ See each item removal and install.

(3) Confirm the hydraulic oil level and recheck the hydraulic oil leak or not.





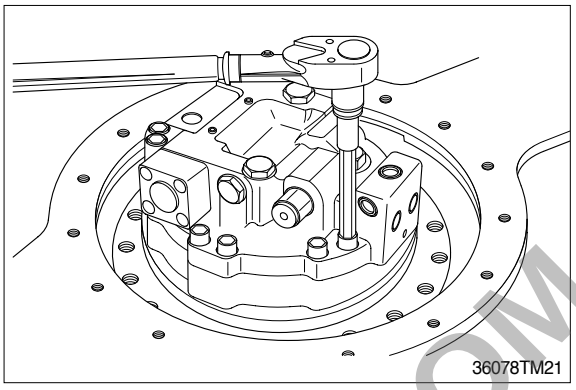




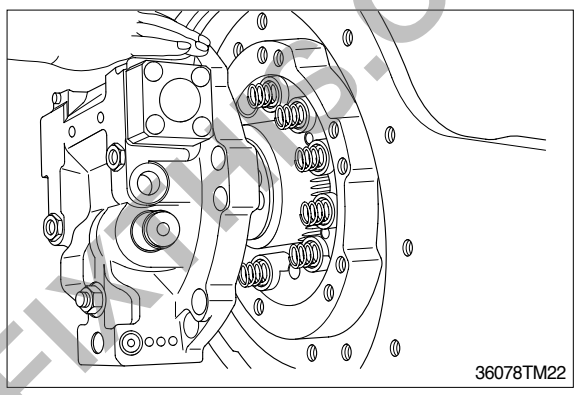
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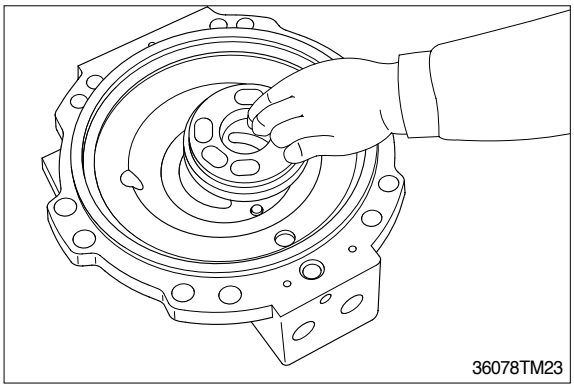
⑤ Loosen hexagon socket head bolts(401, 402) that assemble valve casing(303).

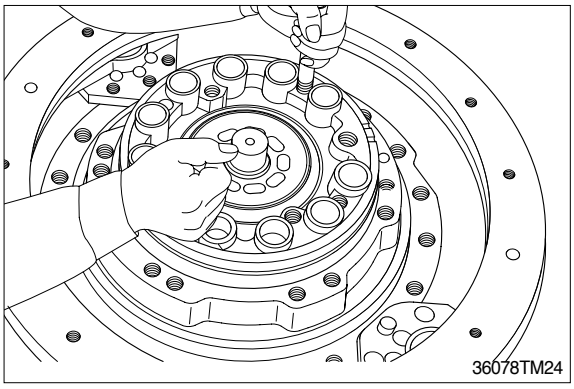


⑥ Remove the above hexagon socket head cap screws, and then separate valve casing sub-assembly and remove valve plate(131).



⑦ Remove brake springs(705), screw M16 ※ bolt to brake piston(702), and remove it.
Ten pieces of brake springs are provided.

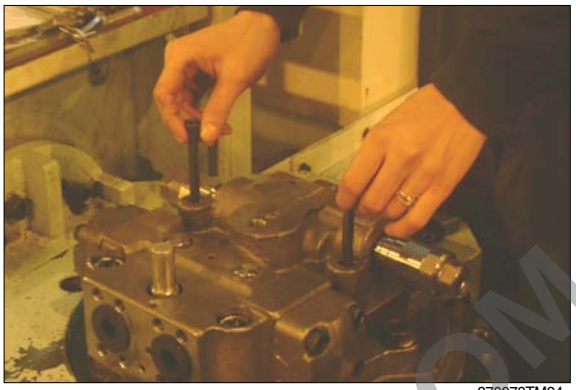




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¤Ø Remove plug(564) from valve casing (303). And then screw two M10¡¿135 bolts on the holes of compelent brake release. Sub assembly(valve casing & brake piston)



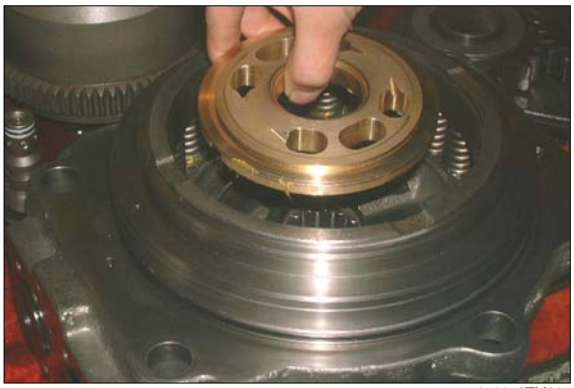
370078TM24

¤Œ Remove socket bolts(401, 402) that assemble valve casing(303).



370078TM25

¤° Remove the above socket bolt, and then separate valve casing sub-assembly and remove valve plate(131).



370078TM26

¤ Pull out friction plate(742) and separation plate(741) from cylinder block(111).

¡ In this case, motor should be located in horizontally.



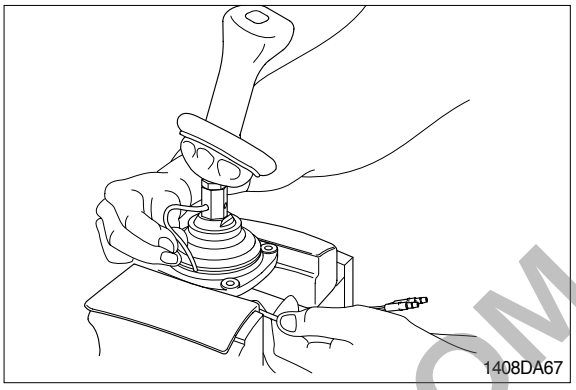
370078TM27

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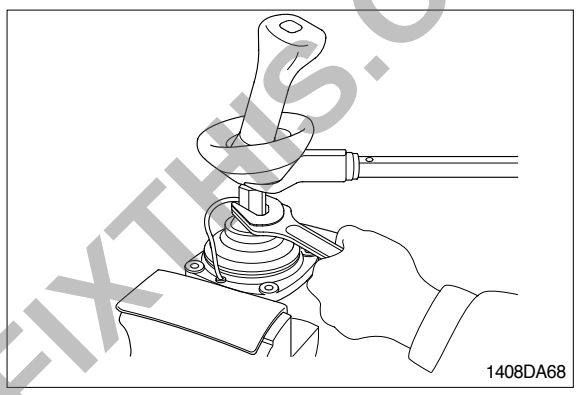
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(17) Assemble bushing(16) to plate and pass cord and tube through it.

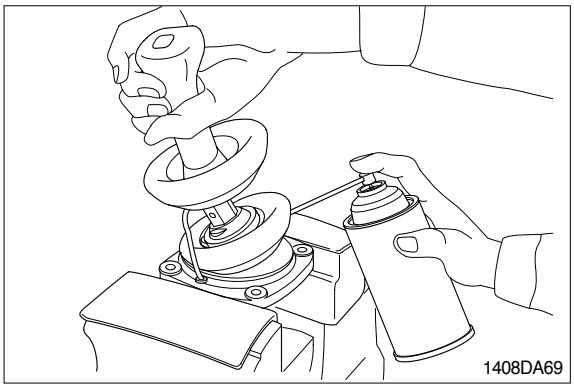
※ Provide margin necessary to operation.



(18) Determine handle direction, tighten lock nut(20) to specified torque to fix handle.

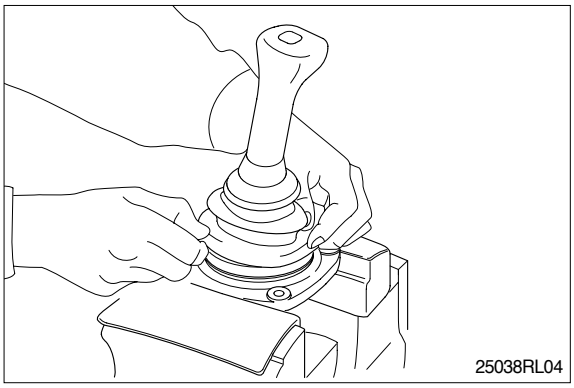


(19) Apply grease to rotating section of joint and contacting faces of disk and push rod.



(20) Assemble lower end of bellows to casing.

(21) Inject volatile rust-preventives through all ports and then put blind plugs in ports.



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