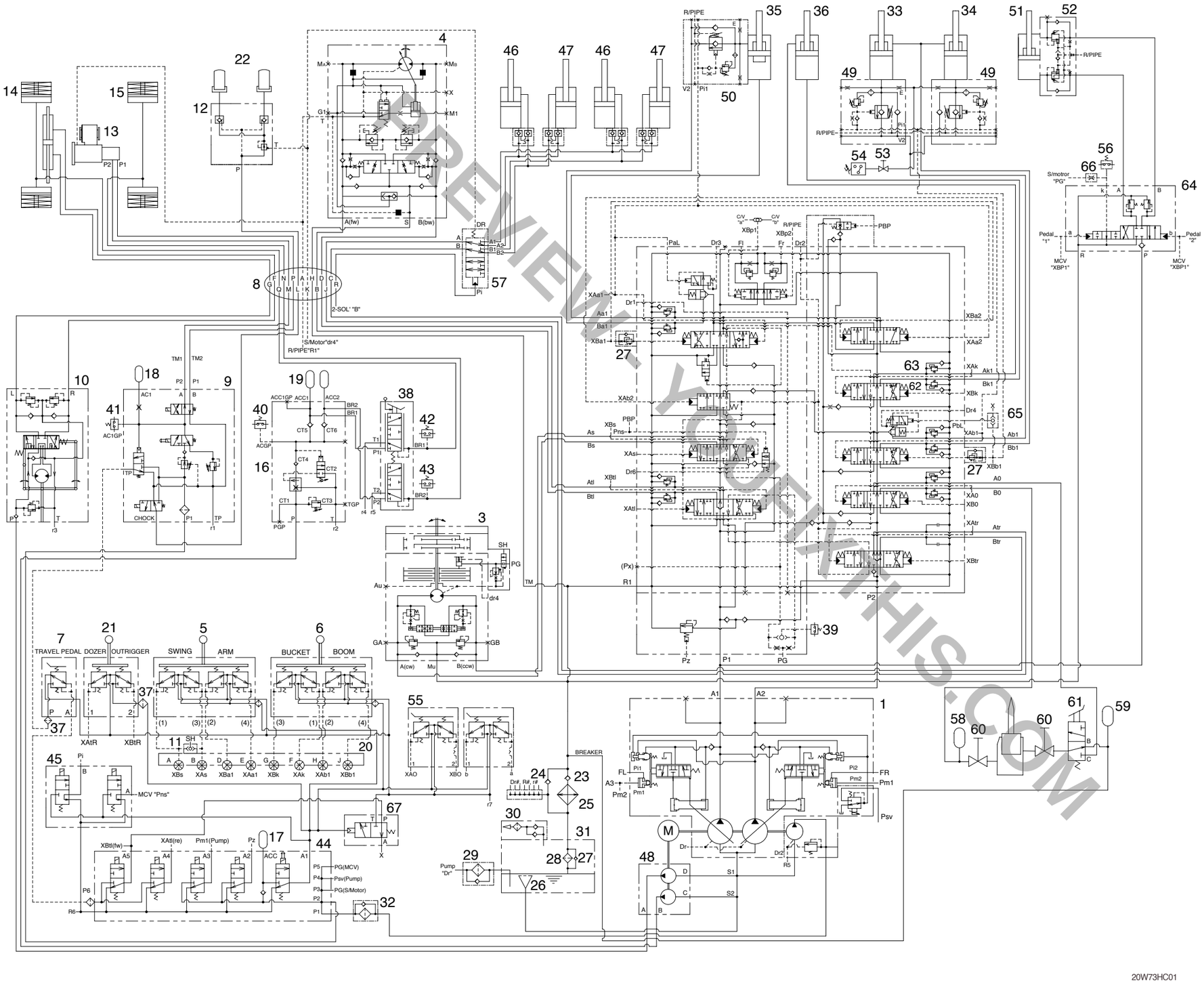
GROUP 1 HYDRAULIC CIRCUIT



20W73HC01

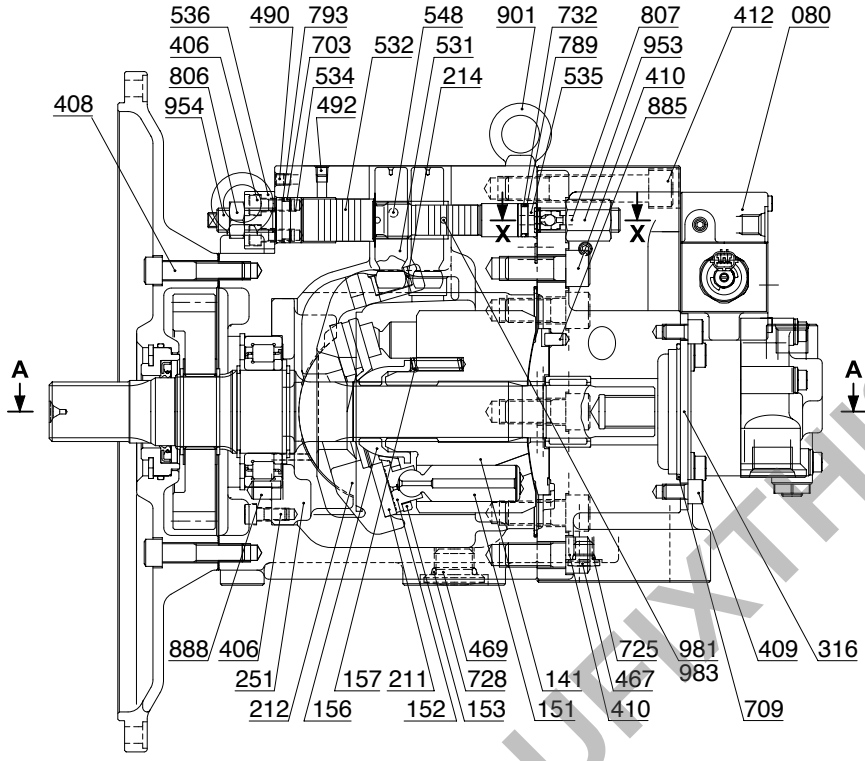
1 Main pump
2 Main control valve
3 Swing motor
4 Travel motor
5 RCV lever(LH)
6 RCV lever(RH)
7 RCV pedal
8 Turning joint
9 Transmission control valve
10 Steering valve
11 Shuttle valve
12 Locking valve
13 Transmission
14 Front axle
15 Rear axle
16 Brake supply valve
17 Accumulator
18 Accumulator
19 Accumulator
20 Terminal assy
21 RCV dozer
22 Oscillating cylinder
23 Check valve
24 Check valve
25 Oil cooler
26 Strainer assy
27 Bypass valve
28 Return filter
29 Spin filter
30 Air breather
31 Hydraulic tank
32 Line filter
33 Boom cylinder(LH)
34 Boom cylinder(RH)
35 Arm cylinder
36 Bucket cylinder
37 Last guard filter
38 Brake valve
39 Pressure switch
40 Pressure switch
41 Pressure switch
42 Pressure switch
43 Pressure switch
44 5 solenoid valve
45 2 solenoid valve
46 Outrigger cylinder(RH)
47 Outrigger cylinder(LH)
48 Gear pump
49 Safety lock valve
50 Safety lock valve
51 Adjust cylinder
52 Safety lock valve
53 Shut off valve
54 Pressure switch
55 Option pedal
56 Pressure switch
57 Selector valve
58 Accumulator
59 Accumulator
60 Stop valve
61 Selector valve
62 Port relief valve
63 Port relief valve
64 Control valve
65 Shuttle valve
66 Orifice fitting
67 Selector valve

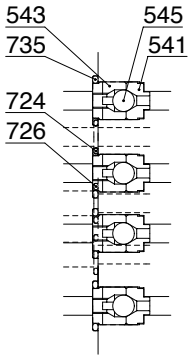
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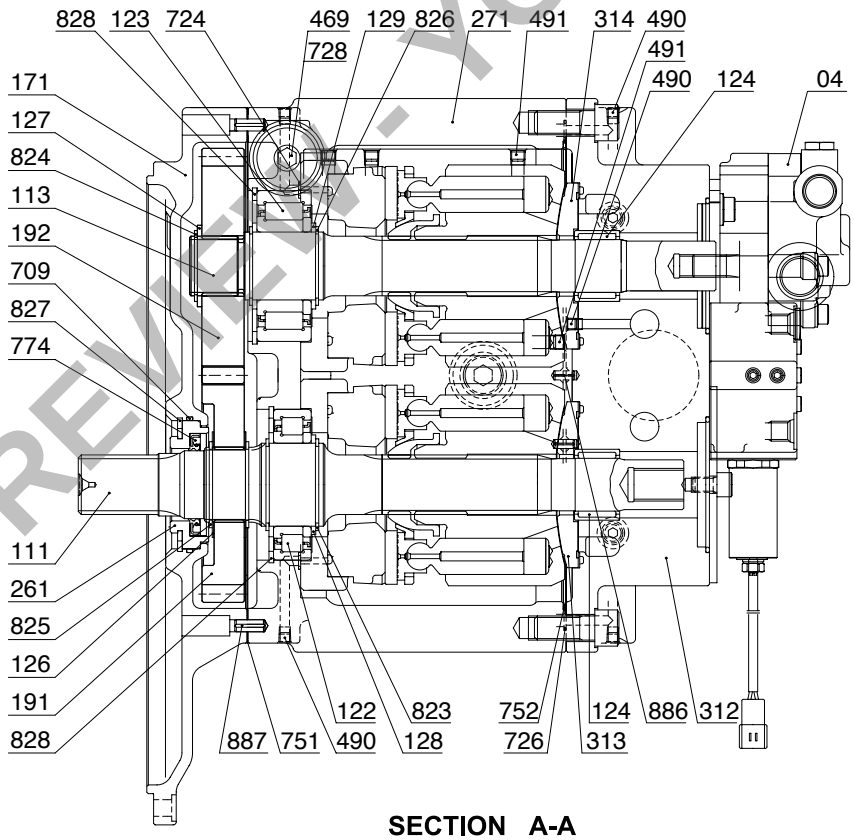
1) MAIN PUMP(1/2)

The main pump consists of two piston pumps(front & rear) and valve block.





SECTION X-X



SECTION A-A

210N72MP02

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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(Engine-Bracket)	M12 × 1.75	10.0±0.5	72.3±3.6
2		Engine mounting bolt(Bracket-Frame)	M20 × 2.5	55±3.5	398±25.3
3		Radiator mounting bolt, nut	M12 × 1.75	10.0±0.5	72.3±3.6
4		Coupling mounting bolt	M16 × 2.0	22.1±2.4	159±17.3
5	Hydraulic system	Main pump mounting bolt	M20 × 2.5	42.0±4.5	304±32.5
6		Main control valve mounting bolt	M12 × 1.75	12.2±1.3	88.2±9.4
7		Travel motor mounting bolt	M16 × 2.5	29.6±3.2	214±23.1
8		Fuel tank mounting bolt	M20 × 2.5	46.0±5.1	333±36.9
9		Hydraulic oil tank mounting bolt	M20 × 2.5	46.0±5.1	333±36.9
10		Turning joint mounting bolt, nut	M12 × 1.75	12.2±1.3	88.2±9.4
11	Power train system	Swing motor mounting bolt	M20 × 2.5	57.9±8.7	419±62.9
12		Swing bearing upper mounting bolt	M20 × 2.5	57.8±6.4	418±46.3
13		Swing bearing lower mounting bolt	M20 × 2.5	57.8±6.4	418±46.3
15		Front axle mounting bolt, nut	M16 × 2.5	29.6±3.2	214±23.1
16		Rear axle mounting bolt, nut (Front)	M24 × 3.0	100±10	723±72.3
17		Rear axle mounting bolt, nut (Rear)	M24 × 2.0	107±10.7	774±77.4
18		Transmission mounting bolt	M20 × 2.5	39.0±4.2	282±30.4
19		Oscillating cylinder mounting bolt	M22 × 1.5	69.4	502
20		Oscillating cylinder support bolt	M16 × 2.0	29.6±3.2	214±23
21		Wheel nut	M20 × 1.5	50.0±0.5	362±3.6
22		Front drive shaft mounting bolt, nut	M10 × 1.0	5.9±0.6	42.7±4.3
23		Rear drive shaft mounting bolt, nut	M10 × 1.0	5.9±0.6	42.7±4.3
24	Others	Counter weight mounting bolt	M36 × 3.0	350±30	2530±217
25		Cab mounting bolt, nut	M12 × 1.75	12.2±1.3	88.2±9.4
26		Operator's seat mounting bolt	M 8 × 1.25	1.17±0.1	8.5±0.7

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

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6. 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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GROUP 3 PUMP DEVICE

1. REMOVAL AND INSTALL

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.

(4) Loosen the drain plug under the hydraulic tank and drain the oil from the hydraulic tank.

· Hydraulic tank quantity : 180 ℓ

(5) Remove socket bolts(13) and disconnect pipe (1,2).

(6) Disconnect pilot line hoses(4, 5, 6, 7, 8, 9, 10, 11).

(7) Remove socket bolts(12) and disconnect pump suction pipe (3).

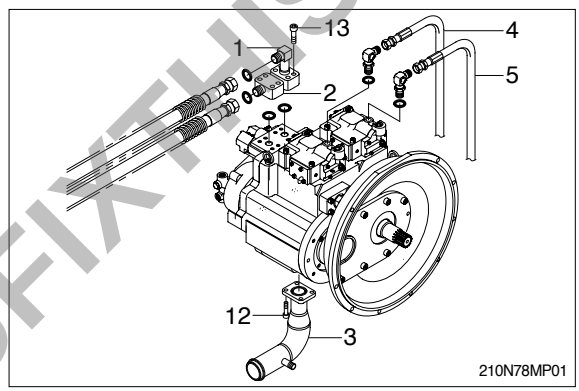
※ When pump suction pipe is disconnected, the oil inside the piping will flow out, so catch it in oil pan.

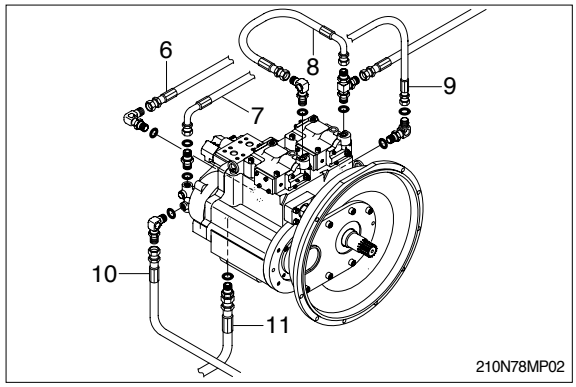
(8) Sling the pump assembly and remove the pump mounting bolts.

· Weight : 170kg(370lb)

※ Pull out the pump assembly from housing. When removing the pump assembly, check that all the hoses have been disconnected.



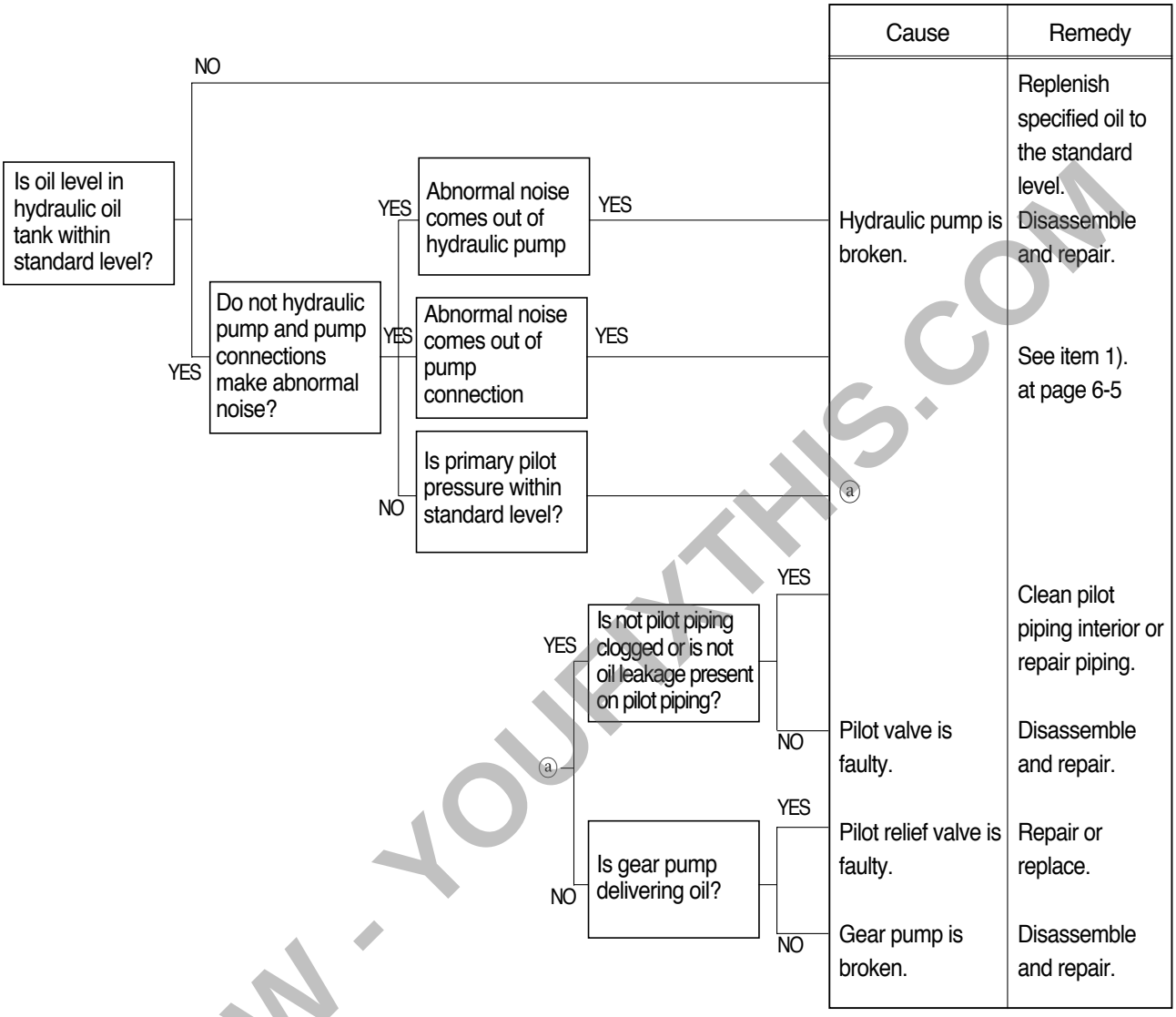




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2) ENGINE STARTS BUT MACHINE DOES NOT OPERATE AT ALL

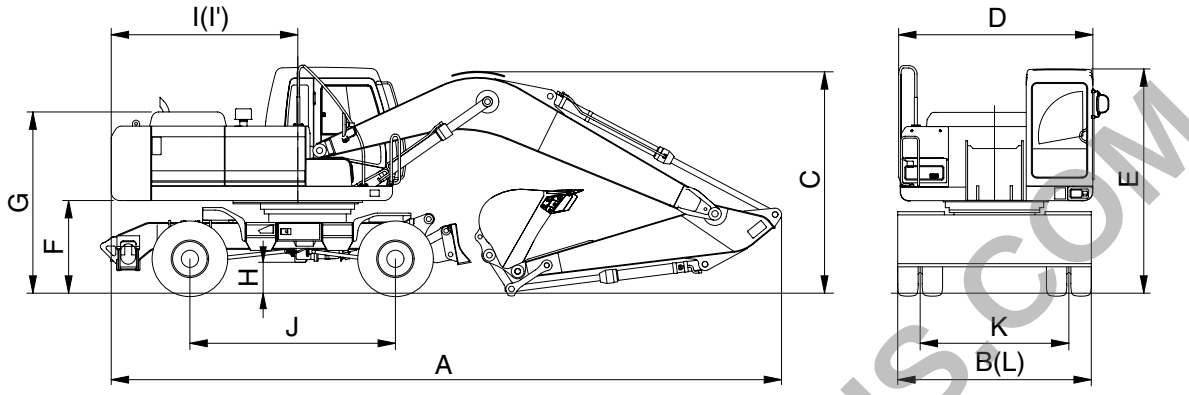


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2. SPECIFICATIONS

1) 5.65m(18' 6") ONE PIECE BOOM, 2.90m(9' 6") ARM, FRONT OUTRIGGER AND REAR DOZER BLADE



20W72SP02

Description		Unit	Specification
Operating weight		kg(lb)	20500(45290)
Bucket capacity(SAE heaped), standard		$m^3(yd^3)$	0.80(1.05)
Overall length	A	mm(ft-in)	9490(31' 2")
Overall width	B		2490(8' 2")
Overall height	C		3100(10' 2")
Upperstructure width	D		2530(8' 4")
Cab height	E		3180(10' 5")
Ground clearance of counterweight	F		1310(4' 3")
Engine cover height	G		2570(8' 5")
Minimum ground clearance	H		345(1' 2")
Rear-end distance	I		2765(9' 1")
Rear-end swing radius	I'		2800(9' 2")
Wheel base	J		2800(9' 2")
Tread	K		1874(6' 2")
Dozer blade width	L		2490(8' 2")
Travel speed	Low	km/hr(mph)	8.3(5.2)
	High		33(20.5)
Swing speed		rpm	11.0
Gradeability		Degree(%)	31.5(61)

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1. STRUCTURE

This service manual has been prepared as an aid to improve the quality of repairs by giving the serviceman an accurate understanding of the product and by showing him the correct way to perform repairs and make judgements. Make sure you understand the contents of this manual and use it to full effect at every opportunity.
This service manual mainly contains the necessary technical information for operations performed in a service workshop.
For ease of understanding, the manual is divided into the following sections.

SECTION 1 GENERAL
This section explains the safety hints and gives the specification of the machine and major components.

SECTION 2 STRUCTURE AND FUNCTION
This section explains the structure and function of each component. It serves not only to give an understanding of the structure, but also serves as reference material for troubleshooting.

SECTION 3 HYDRAULIC SYSTEM
This section explains the hydraulic circuit, single and combined operation.

SECTION 4 ELECTRICAL SYSTEM
This section explains the electrical circuit, monitoring system and each component. It serves not only to give an understanding electrical system, but also serves as reference material for trouble shooting.

SECTION 5 MECHATRONICS SYSTEM
This section explains the computer aided power optimization system and each component.

SECTION 6 TROUBLESHOOTING
This section explains the troubleshooting charts correlating **problems** to **causes**.

SECTION 7 MAINTENANCE STANDARD
This section gives the judgement standards when inspecting disassembled parts.

SECTION 8 DISASSEMBLY AND ASSEMBLY
This section explains the order to be followed when removing, installing, disassembling or assembling each component, as well as precautions to be taken for these operations.

SECTION 9 COMPONENT MOUNTING TORQUE
This section shows bolt specifications and standard torque values needed when mounting components to the machine.

The specifications contained in this shop manual are subject to change at any time and without any advance notice. Contact your HYUNDAI distributor for the latest information.

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10) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
STD	0.80m³(1.05yd³)	0.70m³(0.92yd³)	5	1090mm(42.9")	1210mm(47.6")
OPT	0.51m³(0.67yd³)	0.45m³(0.59yd³)	3	700mm(27.6")	820mm(32.3")
	0.87m³(1.14yd³)	0.75m³(0.98yd³)	5	1000mm(39.4")	1120mm(44.1")
	0.92m³(1.20yd³)	0.80m³(1.05yd³)	5	1130mm(44.5")	1250mm(49.2")
	1.20m³(1.57yd³)	1.00m³(1.31yd³)	6	1400mm(55.1")	-
	1.34m³(1.75yd³)	1.15m³(1.50yd³)	5	1550mm(61.1")	-
	0.74m³(0.97yd³)	0.65m³(0.85yd³)	5	915mm(36.0")	-
	0.90m³(1.18yd³)	0.80m³(1.05yd³)	5	1070mm(42.1")	-
	1.05m³(1.37yd³)	0.92m³(1.20yd³)	5	1220mm(48.0")	-
	铗0.87m³(1.14yd³)	0.75m³(0.98yd³)	5	1140mm(44.9")	-
	▣0.75m³(0.98yd³)	0.65m³(0.85yd³)	-	1810mm(71.3")	-

: Heavy duty bucket
铗 : Rock bucket(Heavy)
▣ : Slope finishing bucket

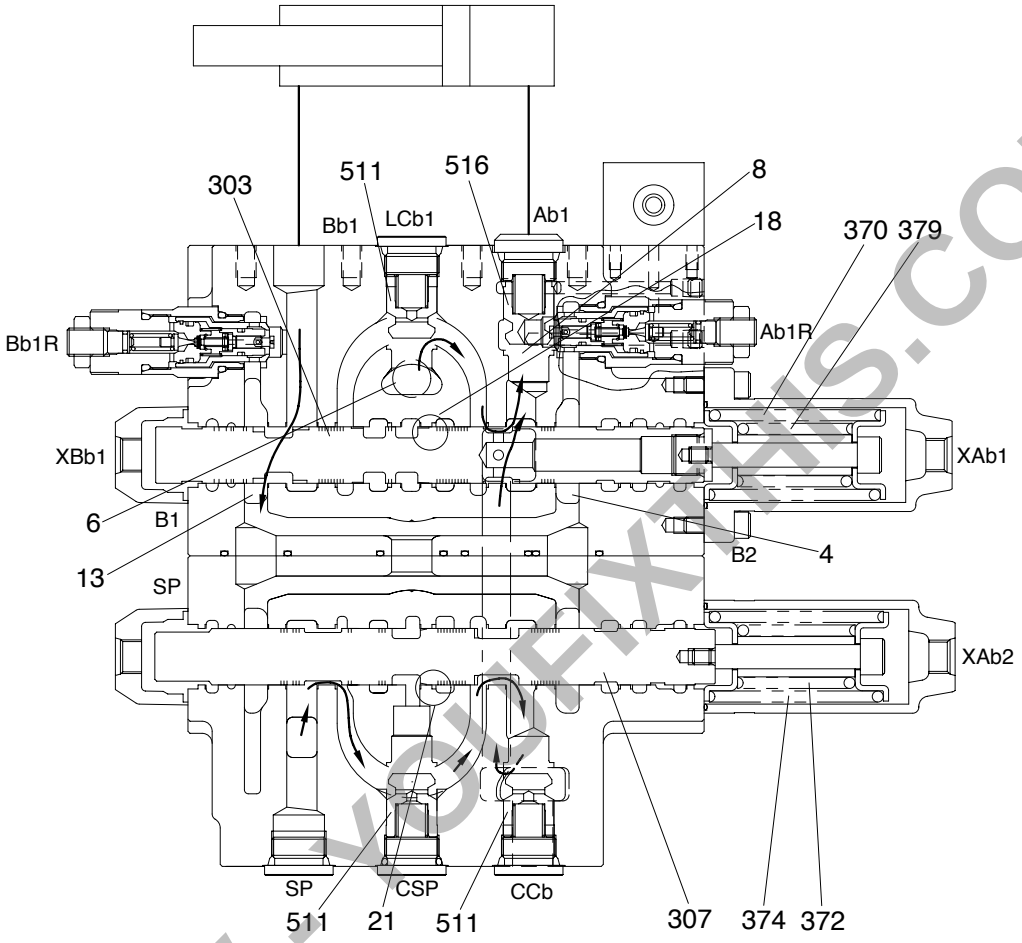
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3) EACH SPOOL OPERATION

(1) Boom control

① **Boom up operation**



The main boom up operation becomes fast because the hydraulic fluid from the pump P2 that is directed to the port P2 is combined in the casing that of the pump P1 which enters port P1. The confluence flow is supplied to the head side of the boom cylinder. In low speed operation, only the boom1 spool(303) operates and is supplied with hydraulic fluid from the pump P2.

The hydraulic fluid from the pump P2 flows into the boom1 spool(303) through port P2 and parallel path(6). The hydraulic fluid from the pump P1 flows to the boom2 spool(307) through pump port P1 and the parallel path(22).

During the boom up operation, the pilot pressure from the pilot control valve is supplied into the port XAb1 and shifts the boom1 spool(303) in the left direction against the springs(370) and (379). the hydraulic fluid from the pump P2 enters the parallel path(6) and then passes through the load check valve LCb1(511) and boom1 spool(303) and check valve HV(516) then flows into the port Ab1. Following this it flows into the head side of the boom cylinder.

At the same time, the pilot pressure through the port XAb2 shifts the boom2 spool(307) in the left direction against the springs(374) and (372). The hydraulic fluid from the pump P1 enters via the parallel path(22) and center bypass(21), then passes through the load check valve CSP(511), boom2 spool(307) and the load check valve CCb(511). Then flows combine in path(8) and are directed to port Ab1 and the head side of the boom cylinder.

The flow from the rod side of the boom cylinder returns to the boom1 spool(303) through the port Bb1. Thereafter it is directed to the return port R2 through path(13).

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2.3 Working of parking brake

1) Parking brake OFF

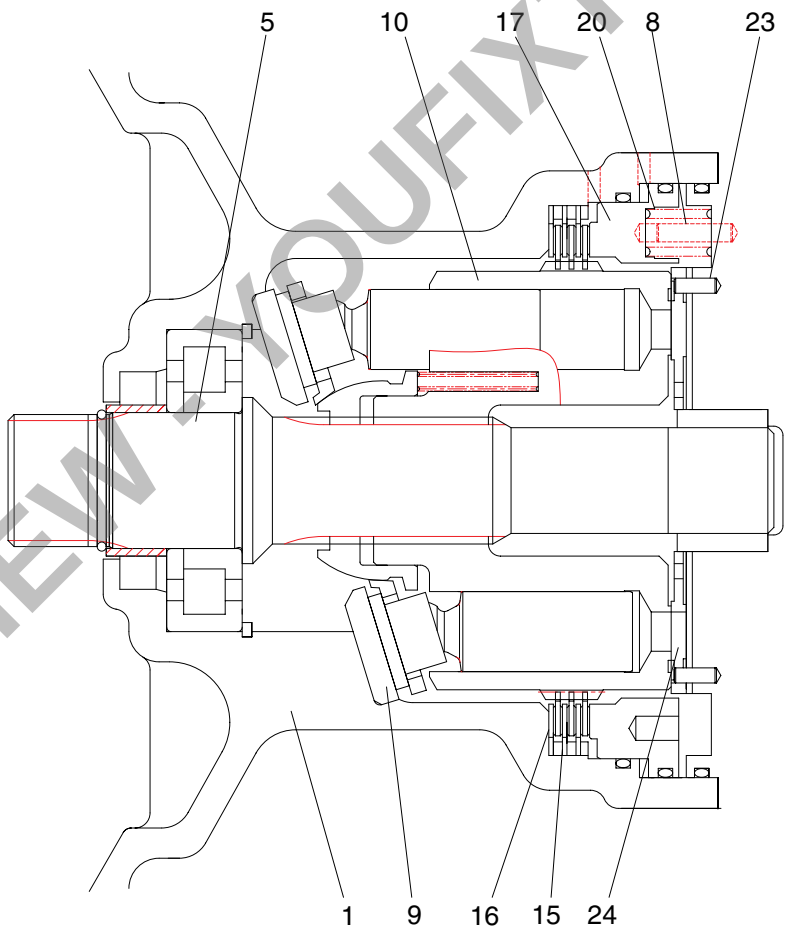
If swing control level sets the swing position, pilot oil will moves swing spool and also it will be supplied to SH port of time delay valve of swing motor through shuttle salve against the power of the spring. The pressure of the spring switches spool to left and moves awaiting PG port oil of delay valve to parking position. After then it moves up parking piston pressing frictional plate to release parking brake.

2) Parking brake ON

If swing control level sets neutrality, swing pilot suplied to SH port of time delay valve through shuttle valve will be stopped.

According to this process, spool is returned by the power of the spring and the pressure of PG port of time delay valve which is always standing by release valve is stopped to parking piston.

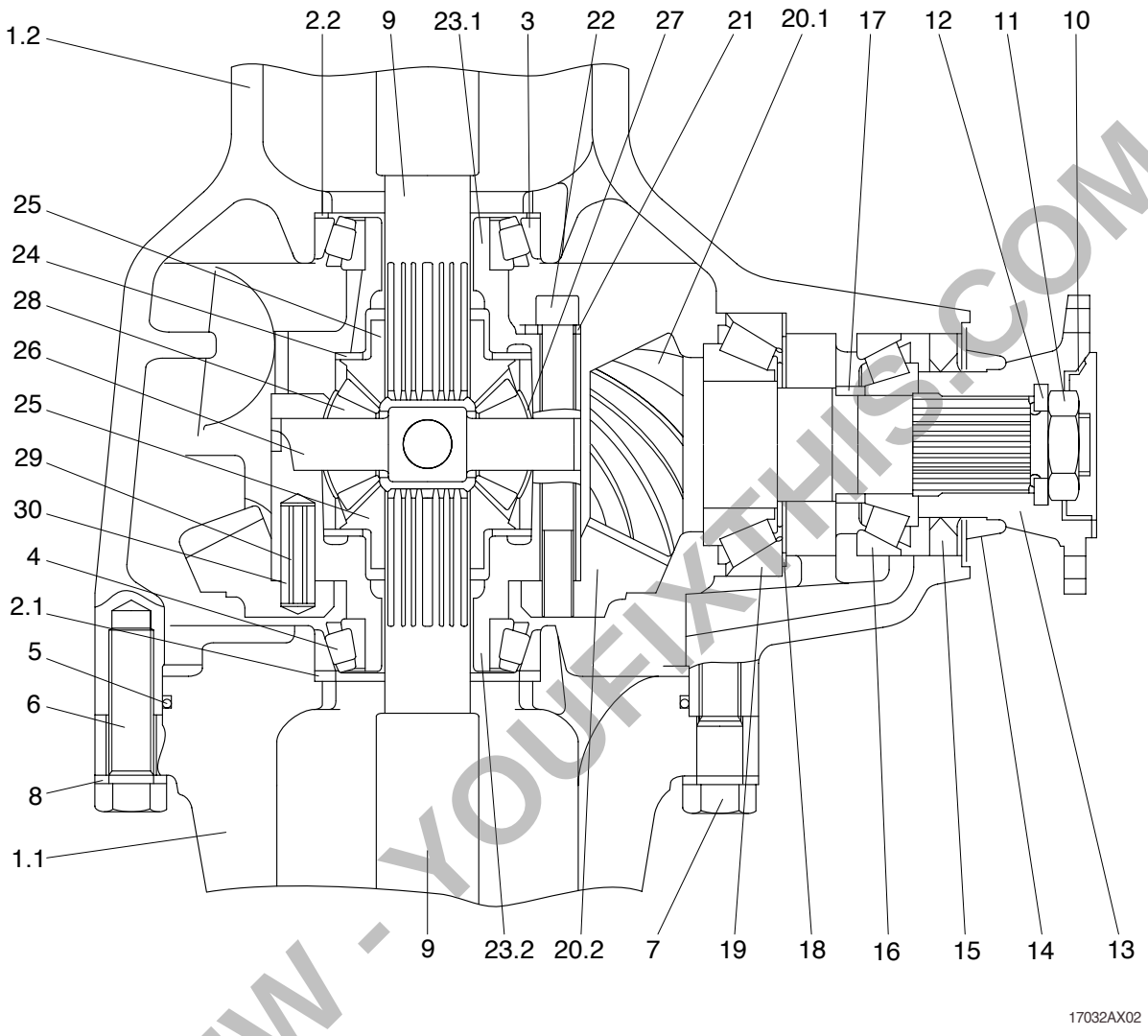
In that time, orifice in spool stops leaking out working oil to create 6 second time delay in order to prevent the impact which may be happened at the moment of sudden stop of swing brake.



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2. SECTION OF DIFFERENTIAL

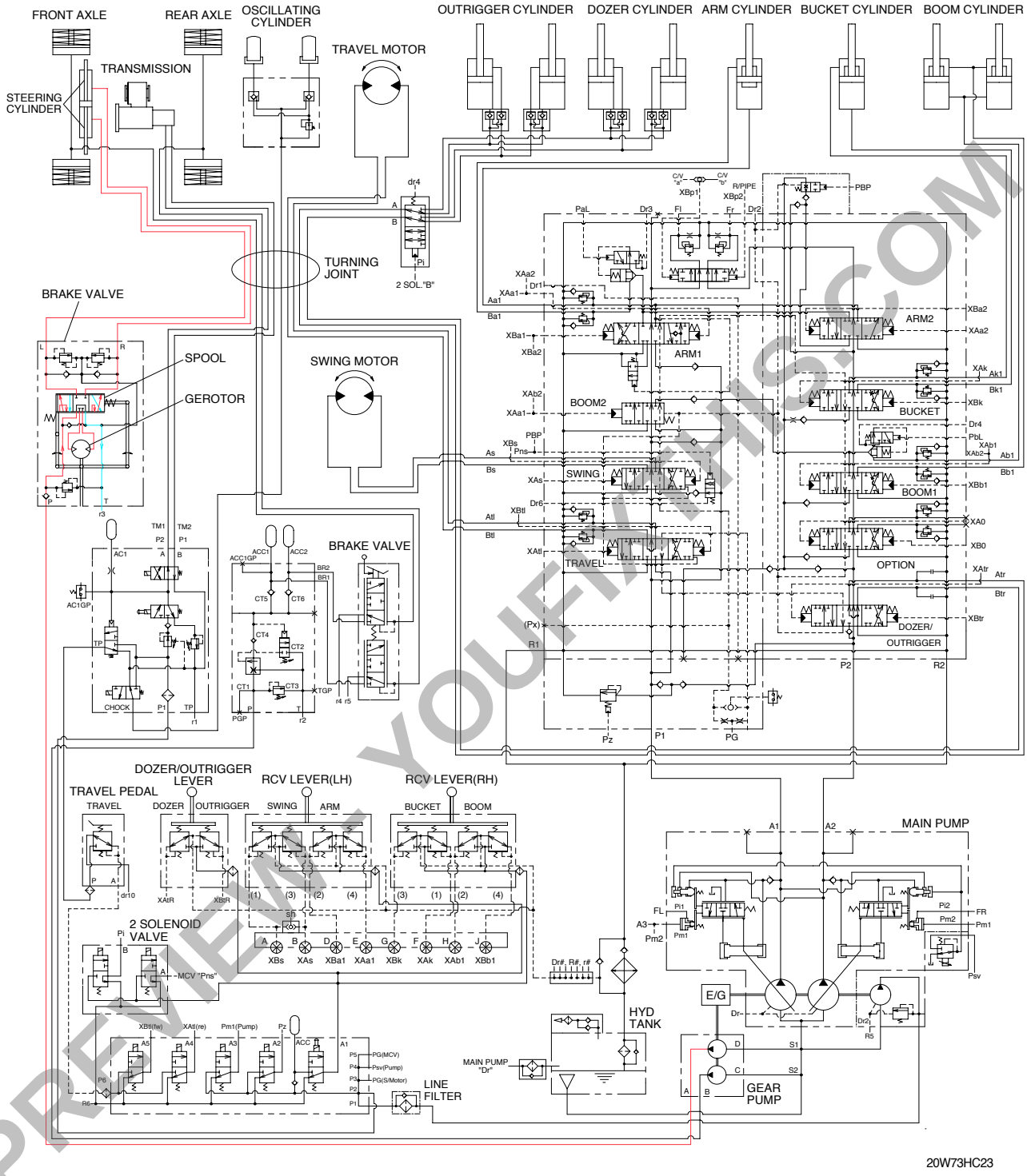


1.1	Axle 1	11	Hex head nut	22	Allen head screw
1.2	Axle 2	12	Washer	23.1	Differential housing 1
2.1	Shim	13	Drive flange	23.2	Differential housing 2
2.2	Shim	14	Cover	24	Thrust washer
3	Tapered roller bearing	15	Shaft seal ring	25	Tapered gear
4	Tapered roller bearing	16	Tapered roller bearing	26	Differential axle
5	O-ring	17	Bushing	27	Thrust washer
6	Hex head screw	18	Shim	28	Differential axle
7	Screw	19	Tapered roller bearing	29	Roll pin
8	Washer	20.1	Pinion	30	Roll pin
9	Tie rod	20.2	Ring		
10	Lock washer	21	Washer		

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14. STEERING CIRCUIT OPERATION



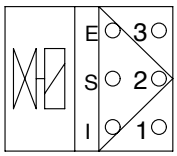
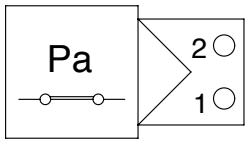
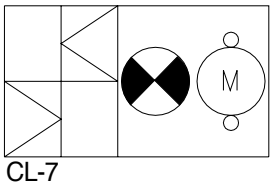
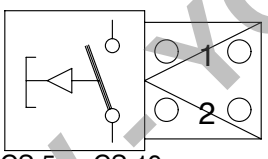
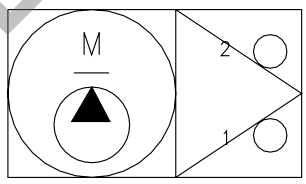
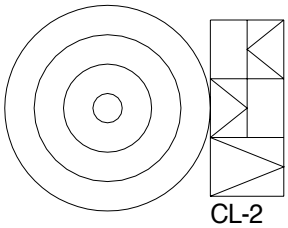
When the steering wheel is turned to the left or right, the spool within the steering valve turns left or right hand direction : Because the spool is connected with steering column.

At this time, the oil discharged from the gear pump(A) flows into steering cylinder through spool and gerotor within the steering valve.

Then the steering direction is applied.

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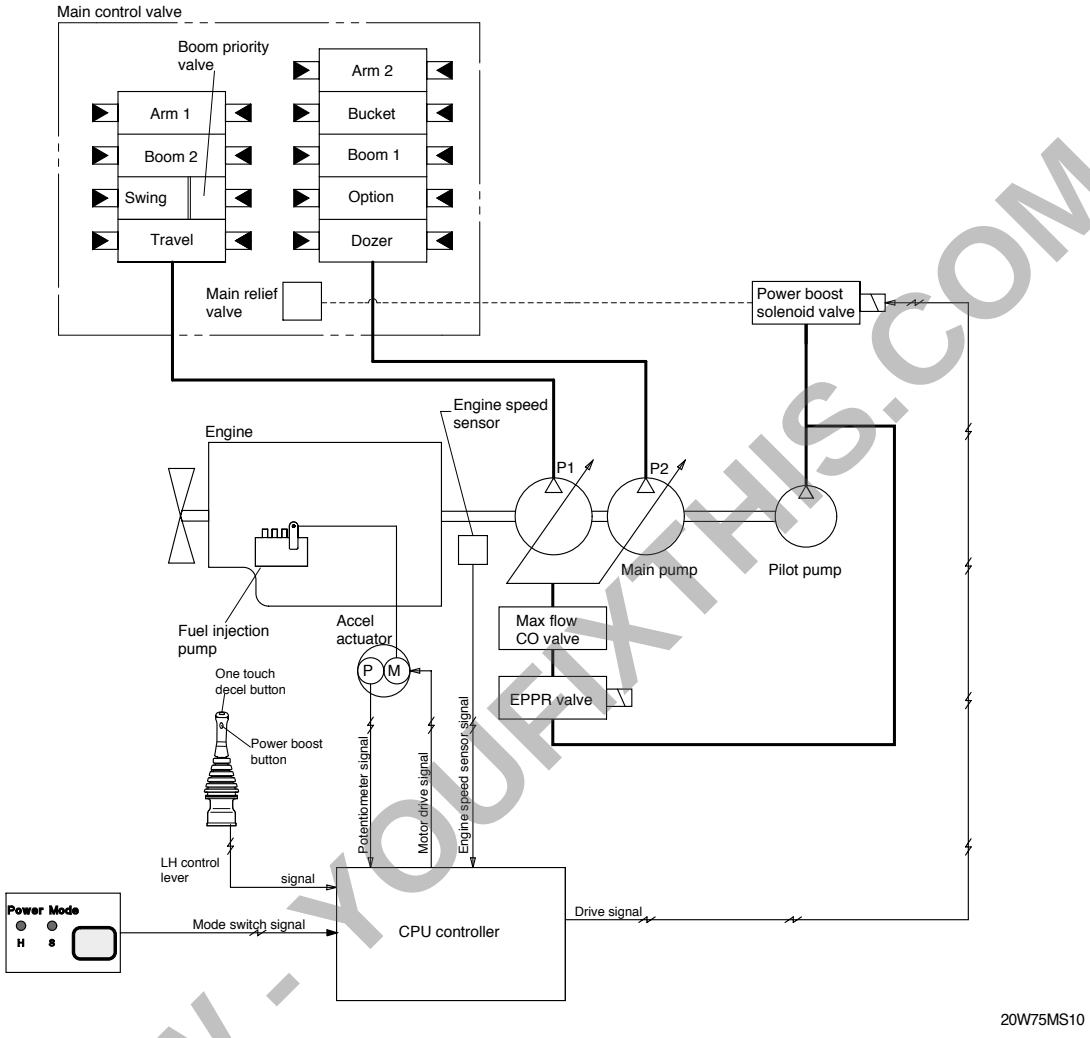
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Part name	Symbol	Specification	Check
Fuel cut-off	 CN-79	24V	※ Check resistance Normal : 15~25Ω
Pressure switch (T/M, Breaker, auto idle)	 CD-3 CD-5 CD-7	10bar (N.C type)	※ Check contact Normal : 0.1Ω
Beacon lamp	 CL-7	24V 70W	※ Check disconnection Normal : 1.1Ω
Switch (Power max, One touch decel, Breaker, Horn)	 CS-5 CS-19 CS-26 CS-26A CS-29	24V 6A	※Check contact Normal : ∞Ω
Washer tank	 CN-22	24V 3.8A	※Check contact Normal : 10.7Ω(For terminal 1-2)
Cigar lighter	 CL-2	24V 5A 1.4W	※Check coil resistance Normal : About 1MΩ ※ Check contact Normal : ∞Ω Operating time : 5~15sec

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GROUP 4 POWER BOOST SYSTEM



· When the power boost switch on the left control lever knob is pushed ON, the maximum digging power is increased by 10%.

· When the power set is at H or S and the power boost function is activated, the power boost solenoid valve pilot pressure raises the set pressure of the main relief valve to increase the digging power.

Description	Power boost switch	
	OFF	ON
Power set	H or S	H
Main relief valve set pressure	330kgf/cm^2	360 kgf/cm^2
Time of operation	-	Even when pressed continuously, it is canceled after 8 sec.

※ Default - Power boost solenoid valve : OFF

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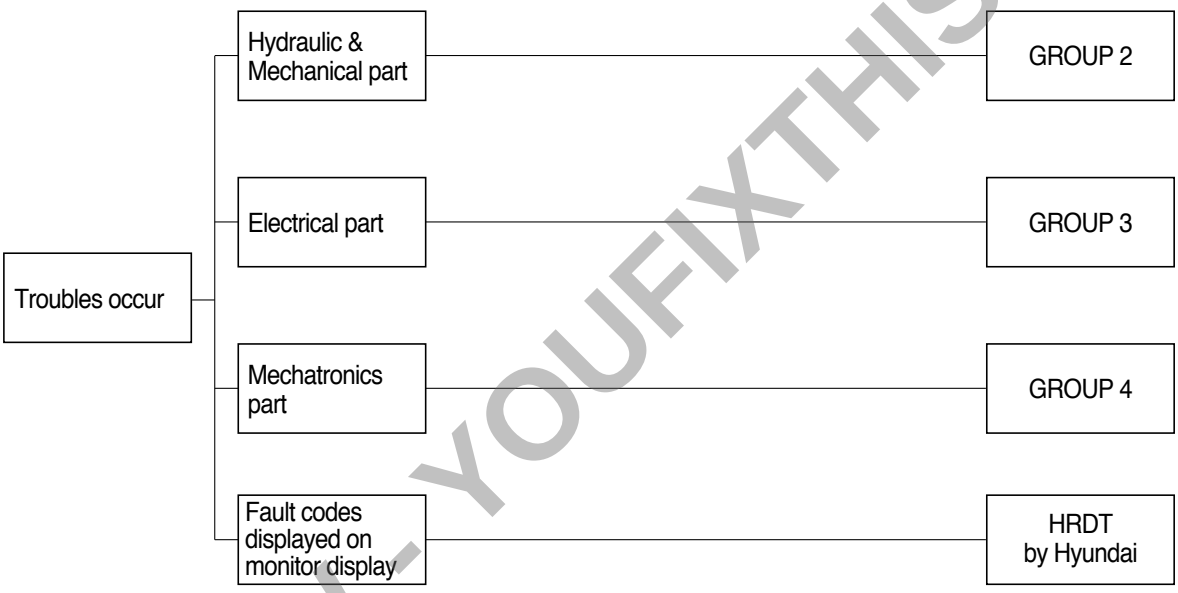
SECTION 6 TROUBLESHOOTING

GROUP 1 BEFORE TROUBLESHOOTING

1. INTRODUCTION

When a trouble is occurred in the machine, this section will help an operator to maintain the machine with easy.

The trouble of machine is parted Hydraulic & Mechanical system, Electrical system and Mechatronics system. At each system part, an operator can check the machine according to the troubleshooting process diagram.

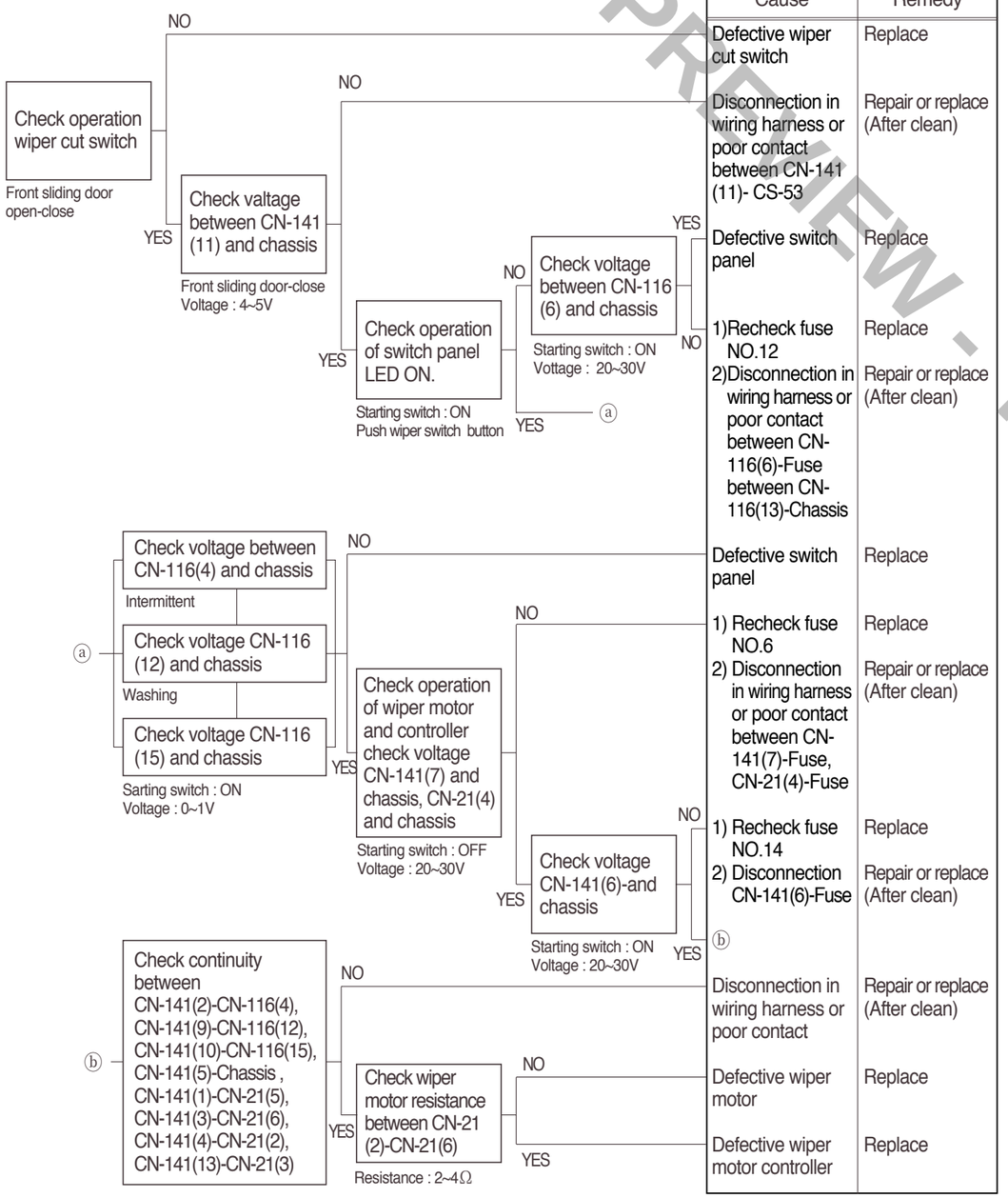


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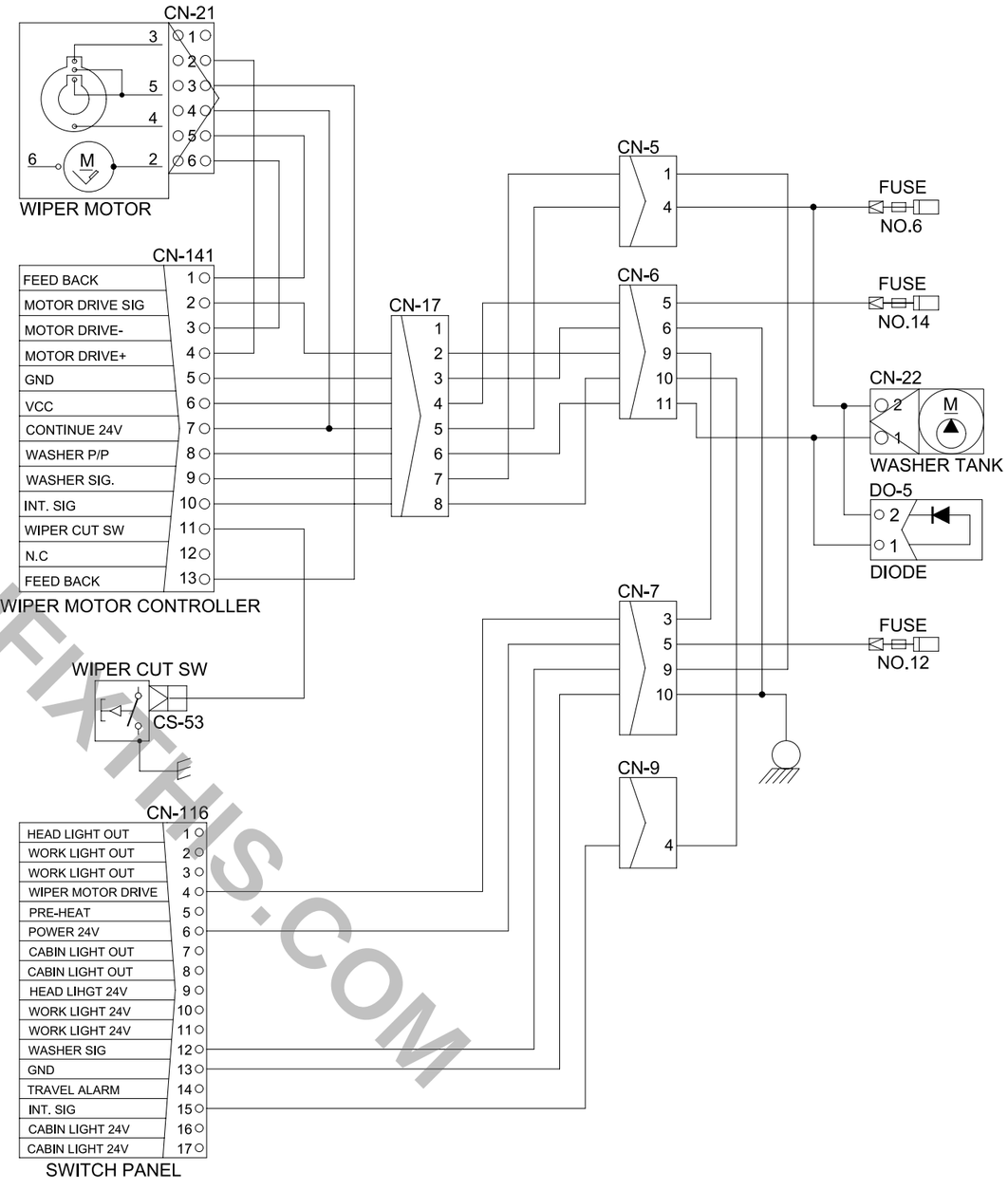
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13. WHEN STARTING SWITCH IS TURNED ON, WIPER MOTOR DOES NOT OPERATE

- 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.4,11 and 13 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.12 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.6 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.14 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



20W76TS08

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10) CONTROL LEVER STROKE

(1) Measure each lever stroke at the lever top using a ruler.

※ When the lever has play, take a half of this value and add it to the measured stroke.

(2) Preparation

Keep the hydraulic oil temperature at 50±5°C.

(3) Measurement

① Stop the engine.

② Measure each lever stroke at the lever top from neutral to the stroke end using a ruler.

③ Repeat step ② three times and calculate the average values.

(4) Evaluation

The measured drift should be within the following specifications.

Unit : mm

Model	Kind of lever	Standard	Maximum allowable	Remarks
R200W-7	Boom lever	83±10	103	
	Arm lever	83±10	103	
	Bucket lever	83±10	103	
	Swing lever	83±10	103	

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4) REASSEMBLY

(1) For reassembling reverse the disassembling procedures, paying attention to the following items.

① Do not fail to repair the parts damaged during disassembling, and repair replacement parts in advance.

② Clean each part fully with cleaning oil and dry it with compressed air.

③ Do not fail to apply clean working oil to sliding surfaces, bearings, etc. before assembling them.

④ In principle, replace seal parts, such as O-rings, oil seals, etc.

⑤ Apply grease to O-rings, seat packing, and check valves in assembling them because they tend to come off.

⑥ In case of parallel type pump, rotating directions of drive shaft and driven shaft are different. Take care not to mix up parts of the drive shaft side with those of the driven shaft side.

⑦ For fitting bolts, plug, etc., prepare a torque wrench or so on, and tighten them with specified torques in this service manual.

(2) Select place suitable to assembling.

※ Select clean place.

※ Spread rubber sheet, cloth or so on overhaul workbench top to prevent parts from being damaged.

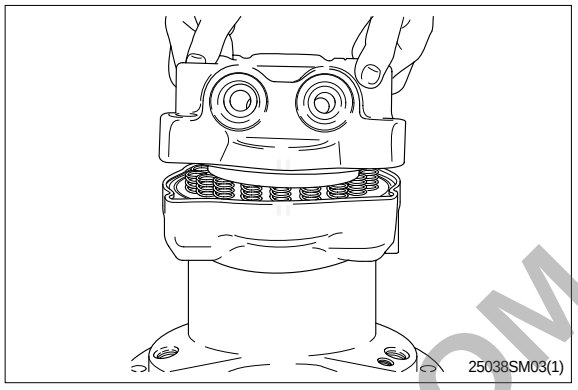
※ Fix pump casing(271) by using thread 2-M10×16 in assembling.

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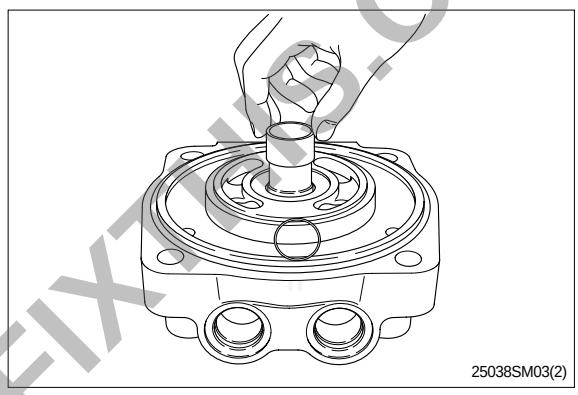
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(5) Removal of cover assembly

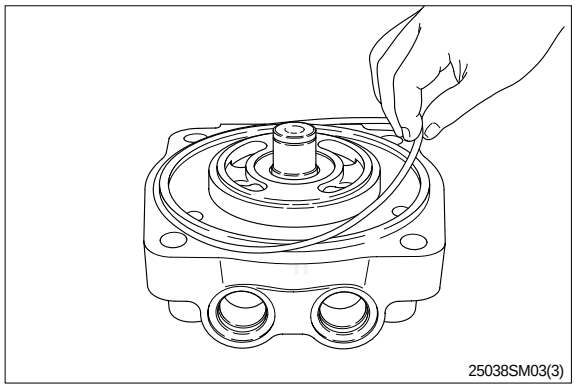
Place shaft of motor assembly to downward and take cover(33) out.



(6) Remove snap ring(23) with steel pointer and remove inner race of needle-bearing(22) by bearing puller.



(7) Remove O-ring(12) from cover.

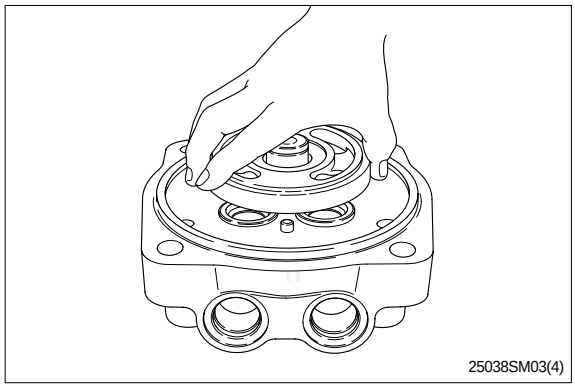


(8) **Remove balance plate**

Balance plate(21) is adhered on end surface of cylinder(24) by oil viscosity. Take off balance plate(21) with hands. Assembling method of balance plate(21) depends on cover(34).

(Band groove and round groove of high¡/low pressure transmission area)

Before removing, check and record location of balance plate(21) to prevent misassembling.



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⑨ Insert break piston assy into body(1) and compress it with a jig and hammer.



14078SM229/229A

⑩ Assemble spring(20)(20EA) into break piston(17).
- Spring ×20EA



14078SM230/230A

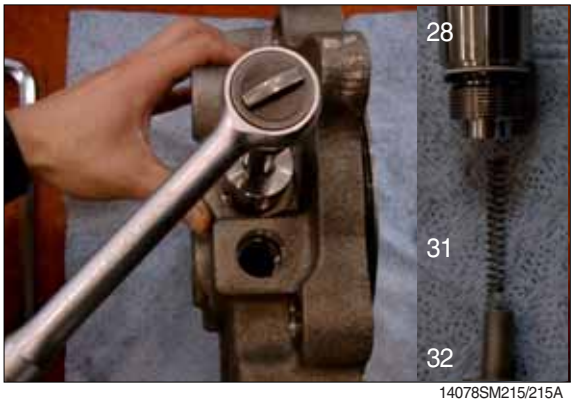
(3) Assemble the sub of rear cover assy sub

① Assemble the sub of make up check valve assy.
Assemble O-ring(30), back up ring(29) into plug(28) with a O-ring assembling jig.
- Plug×1EA
- Back up ring×1EA
- O-ring×1EA



14078SM231/231A/B

② Assemble respectively make up check valve assy spring(31), check(32), plug(28) into rear cover(21) after then screw it torque wrench.
- Make up check sub ×2set
- Spring ×2EA
- Check ×3EA

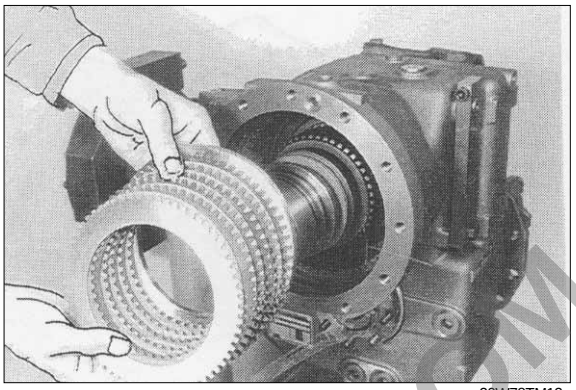


14078SM215/215A

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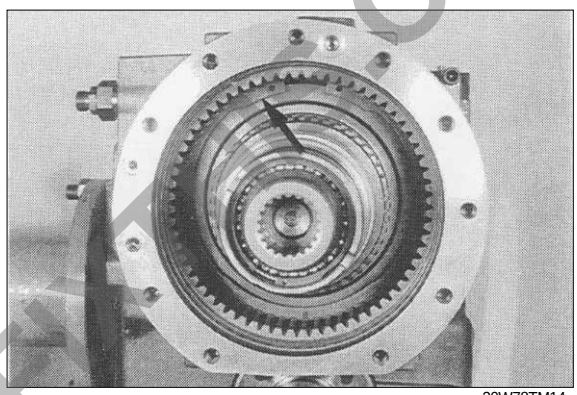
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(13) Remove plate pack and backing plate.



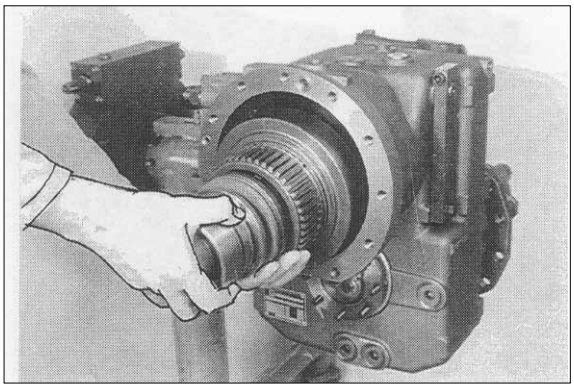
20W78TM13

(14) Squeeze out circlip(Arrow).



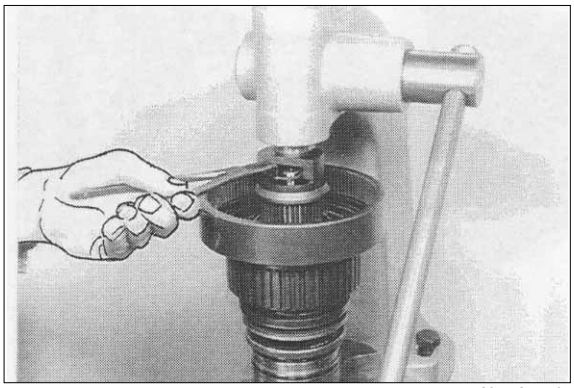
20W78TM14

(15) Remove clutch unit.



20W78TM15

(16) Fix sun gear axially by means of assembly jig, squeeze out circlip and relax the cup spring pack.

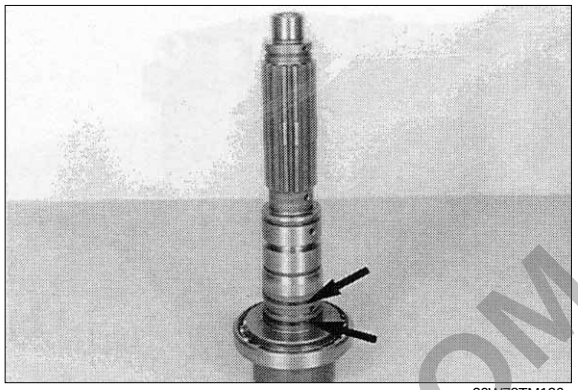


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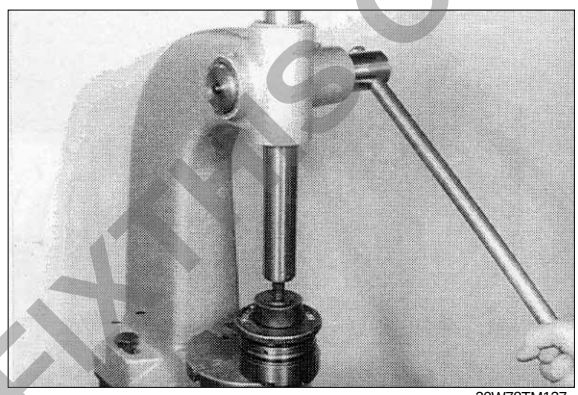
(2) Squeeze in the two rectangular rings (Arrows) and engage them.



20W78TM136

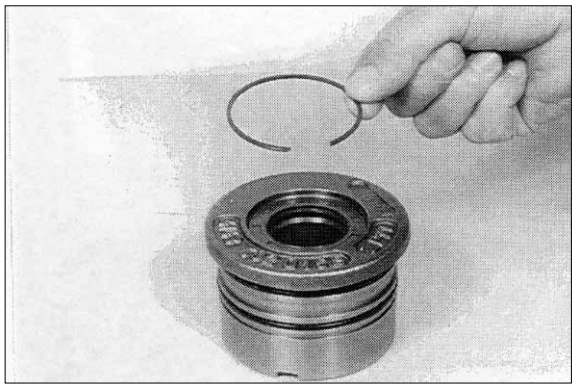
(3) Install shaft seal.

¡ By application of the prescribed driver, the exact installation depth is given. Wet outer diameter of shaft seal with spirit. Grease the sealing lip.



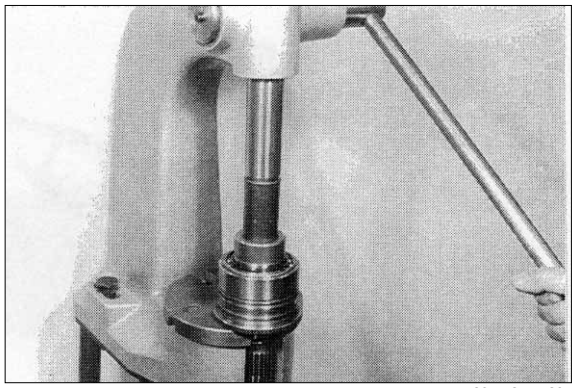
20W78TM137

(4) Fix shaft seal by means of snap ring.



20W78TM138

(5) Grease the two rectangular rings, align them centrically and press the drive shaft into the guide sleeve until contact is obtained.

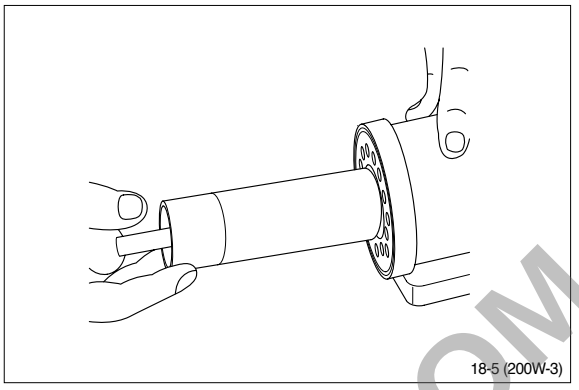


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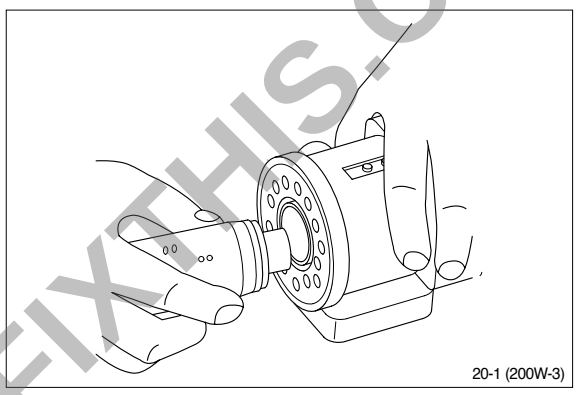
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(14) Draw the inner and outer parts of the assembly tool out of the steering unit bore, leaving the guide from the inner part in the bore.

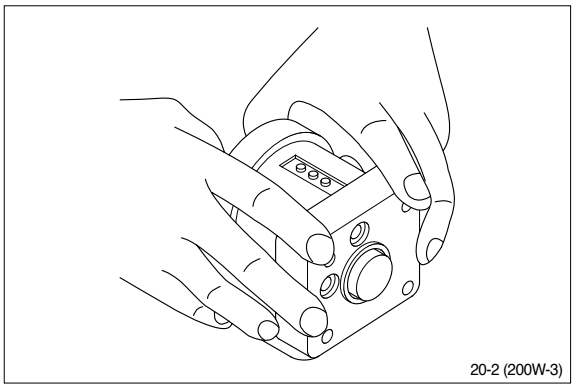

18-5 (200W-3)

(15) With a light turning movement, guide the spool and sleeve into the bore.

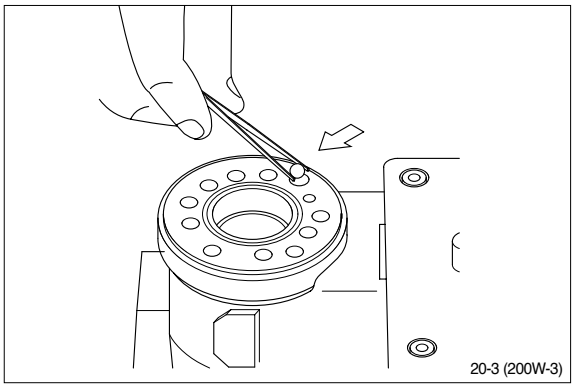
※ Fit the spool set holding the cross pin horizontal.


20-1 (200W-3)

(16) The spool set will push out the assembly tool guide. The O-ring and kin-ring are now in position.


20-2 (200W-3)

(17) Turn the steering unit until the bore is vertical again. Put the check valve ball into the hole indicated by the arrow.


20-3 (200W-3)

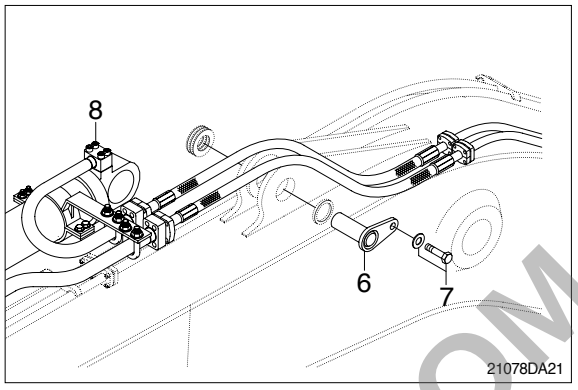
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⑤ Sling arm assembly(8) and remove bolt (7) then pull out pin(6).

⑥ Remove arm cylinder assembly(8).

· Weight : 290kg(640lb)



(2) Install

① Carry out installation in the reverse order to removal.

⚠ When aligning the mounting position of the pin, do not insert your fingers in the pin hole.

※ Bleed the air from the arm cylinder.

※ Confirm the hydraulic oil level and check the hydraulic oil leak or not.

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