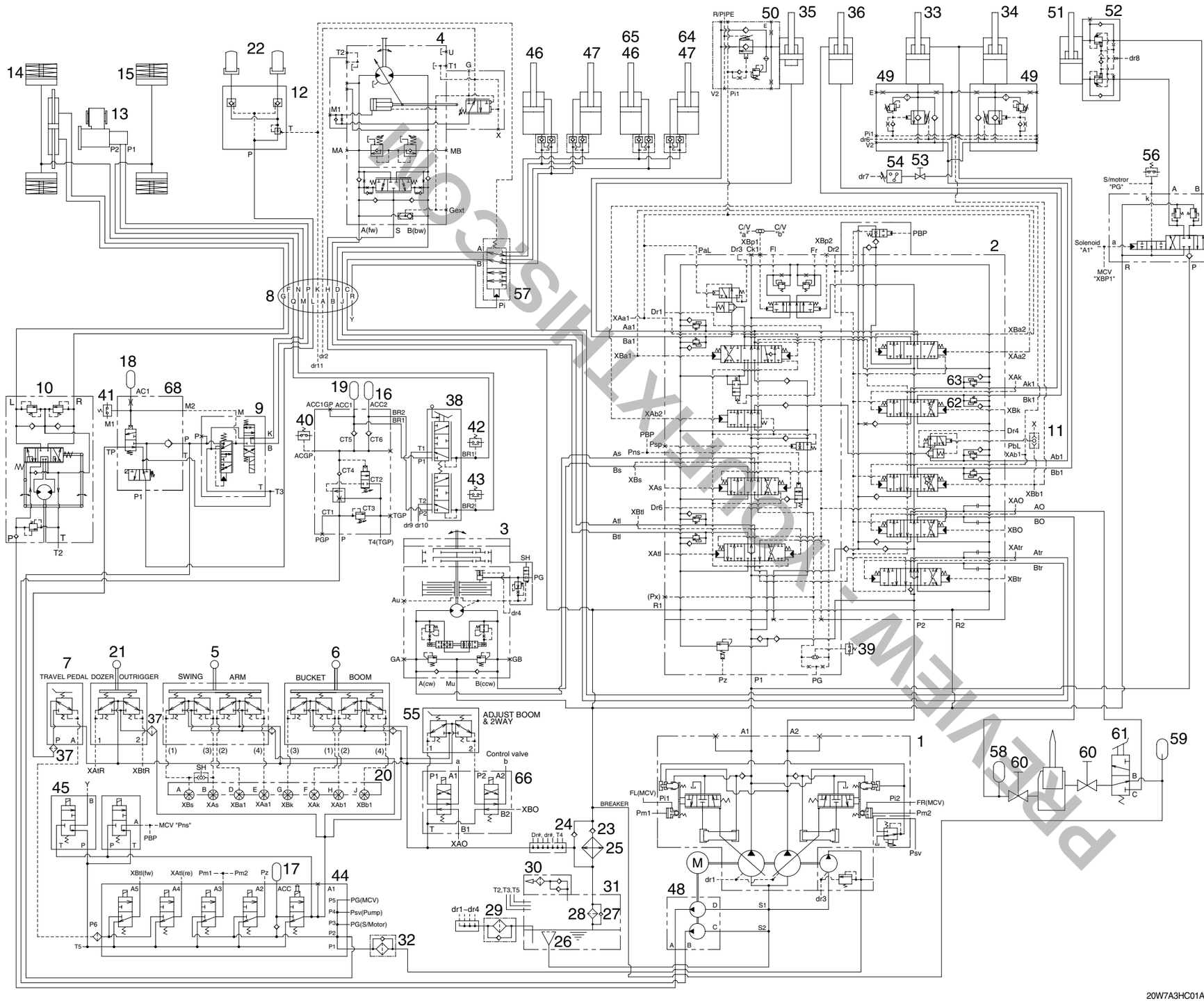
GROUP 1 HYDRAULIC CIRCUIT

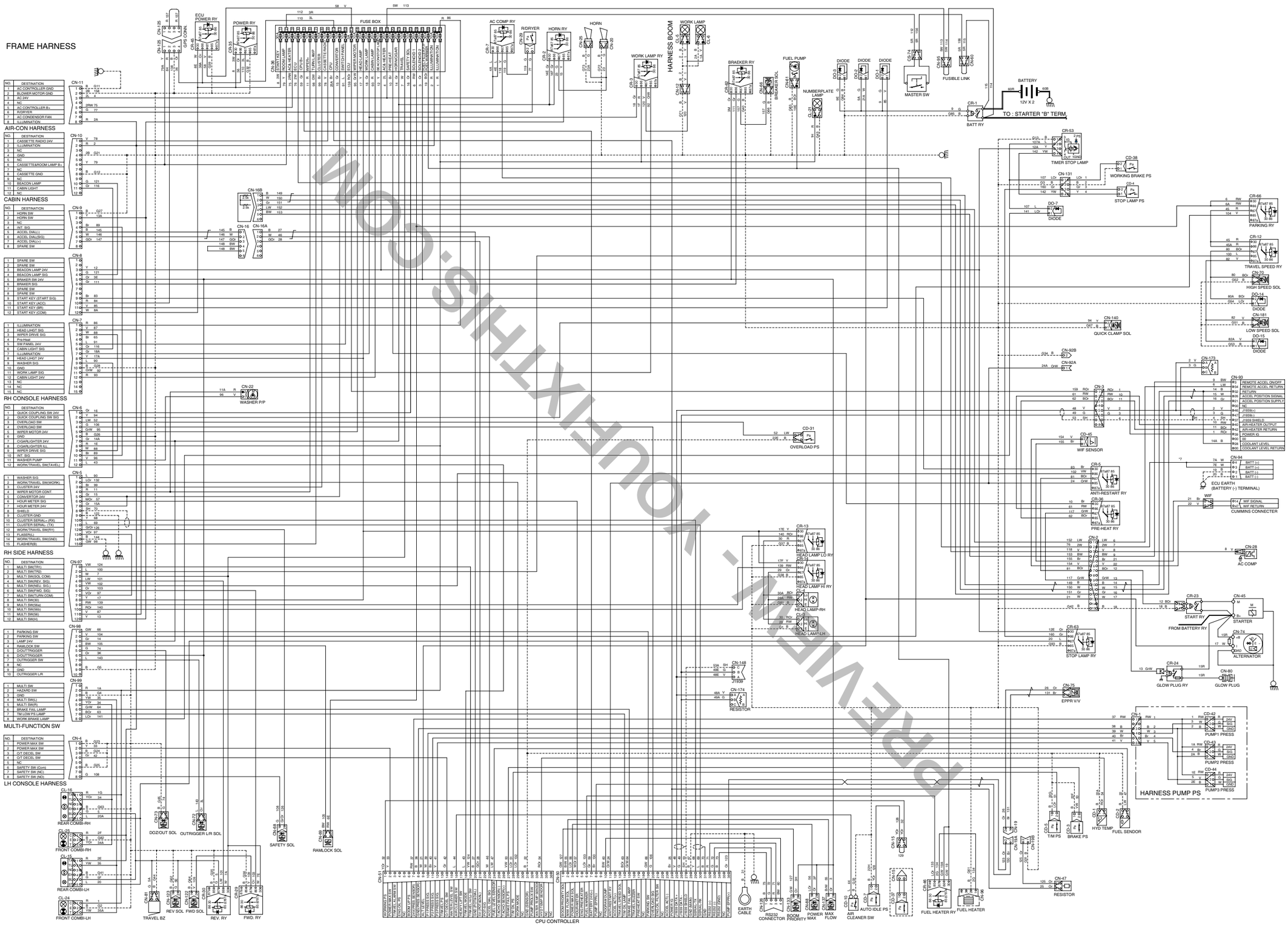


1 Main pump
2 Main control valve
3 Swing motor
4 Travel motor
5 RCV lever(LH)
6 RCV lever(RH)
7 RCV pedal
8 Turning joint
9 Travel control valve
10 Steering valve
11 Shuttle valve
12 Locking valve
13 Transmission
14 Front axle
15 Rear axle
16 Brake supply valve
17 Accumulator(option)
18 Accumulator(option)
19 Accumulator(option)
20 Terminal assy
21 RCV dozer(option)
22 Oscillating cylinder
23 Check valve
24 Check valve
25 Oil cooler
26 Strainer assy
27 Bypass check 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(option)
40 Pressure switch(option)
41 Pressure switch(option)
42 Pressure switch(option)
43 Pressure switch(option)
44 5 solenoid valve
45 1 solenoid valve
46 Outrigger cylinder(RH, option)
47 Outrigger cylinder(LH, option)
48 Gear pump
49 Safety lock valve(option)
50 Safety lock valve(option)
51 Adjustable boom cylinder(option)
52 Safety lock valve(option)
53 Shut off valve(option)
54 Pressure switch(option)
55 Option pedal(option)
56 Pressure switch(option)
57 Selector valve(option)
58 Accumulator(option)
59 Accumulator(option)
60 Stop valve(option)
61 3 way selector valve(option)
62 Port relief valve(option)
63 Port relief valve(option)
64 Dozer cylinder(LH, option)
65 Dozer cylinder(RH, option)
66 Selector solenoid valve(option)
67 Control valve(option)
68 Travel control valve

PREVIEW - NO SIHL XE215

Download full manual at youfixthis.com

GROUP 2 ELECTRICAL CIRCUIT (1/2)



PREVIEW - NO.SHIXTHIS.COM

Download full manual at youfixthis.com

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).

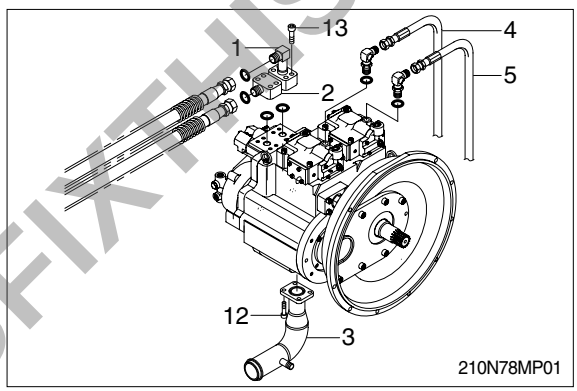
※ When pump suction pipe is disconnected, the oil inside the piping will flow out, so catch it in oil pan.

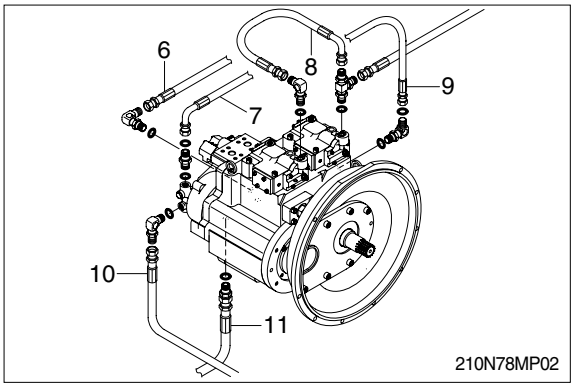
(8) Sling the pump assembly and remove the pump mounting bolts.

- Weight : 170kg (370lb)

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







PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GROUP 2 TIGHTENING TORQUE

1. MAJOR COMPONENTS

No.	Descriptions		Bolt size	Torque	
				kgf · m	lbf · ft
1	Engine	Engine mounting bolt (Bracket-Frame, FR)	M20 × 2.5	55±3.5	398±25.3
2		Engine mounting bolt (Bracket-Frame, RR)	M24 × 3.0	90±7.0	651±51
3		Engine mounting bolt (Engine-Bracket)	M12 × 1.75	10.0±1.0	72.3±7.2
4		Radiator mounting bolt	M12 × 1.75	12.8±3.0	92.6±21.7
5		Coupling mounting socket bolt	M18 × 2.5	32±1.0	231±7.2
6	Hydraulic system	Main pump housing mounting socket bolt	M10 × 1.5	4.8±0.3	34.7±2.2
7		Main pump mounting socket bolt	M20 × 2.5	42±4.5	304±32.5
8		Main control valve mounting bolt	M12 × 1.75	12.2±1.3	88.2±9.4
9		Travel motor mounting bolt	M16 × 2.0	29.6±3.2	214±23.1
10		Fuel tank mounting bolt	M20 × 2.5	45±5.1	325±36.9
11		Hydraulic oil tank mounting bolt	M20 × 2.5	46±5.1	333±36.9
12		Turning joint mounting bolt, nut	M12 × 1.75	12.2±1.3	88.2±9.4
13	Power train system	Swing motor mounting bolt	M20 × 2.5	57.9±8.7	419±62.9
14		Swing bearing upper mounting bolt	M20 × 2.5	57.8±6.4	418±46.3
15		Swing bearing lower mounting bolt	M20 × 2.5	57.8±6.4	418±46.3
16		Rear axle mounting bolt, nut	M24 × 2.0	100±10.7	723±77.4
17		Transmission bracket mounting bolt	M20 × 2.5	39±4.2	282±30.4
18		Transmission mounting bolt	M20 × 2.5	29.6±3.2	214±23.1
19		Oscillating cylinder mounting bolt	M22 × 1.5	83.2±9.2	602±66.5
20		Oscillating cylinder support mounting bolt	M16 × 2.0	29.6±3.2	214±23.1
21		Wheel nut	M20 × 1.5	60^{0}_{-5}	$434^{0}_{-36.2}$
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	Counterweight mounting bolt	M36 × 3.0	308±46	2228±333
25		Cab mounting bolt, nut	M12 × 1.75	12.8±3.0	92.6±21.7
26		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 components disassembly and assembly.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. 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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

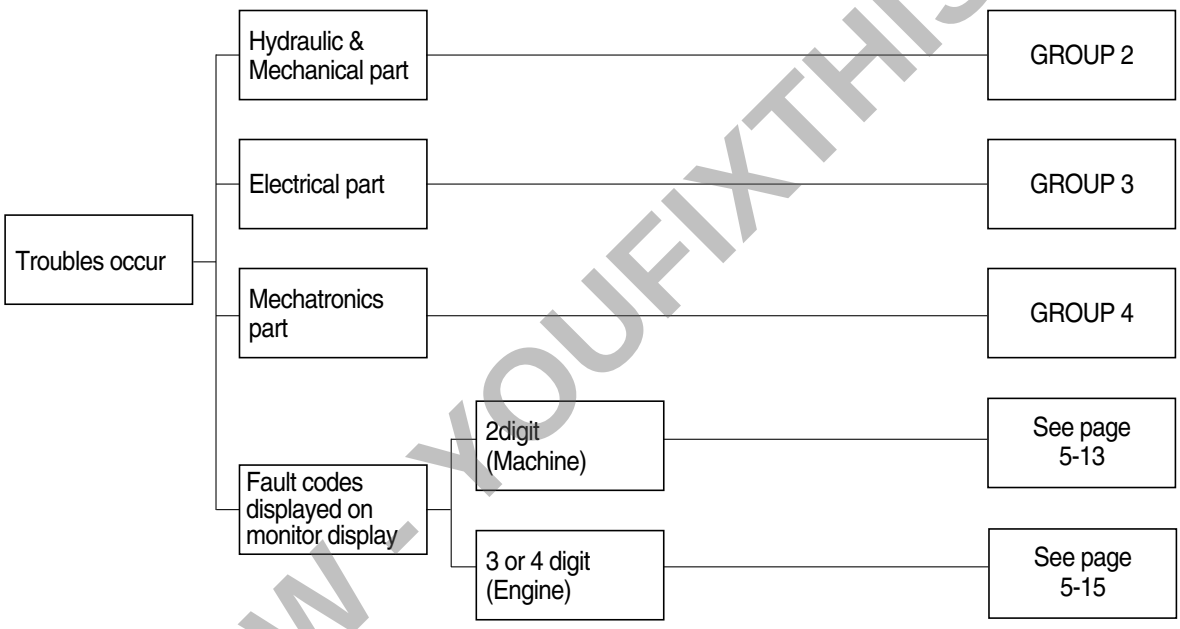
SECTION 6 TROUBLESHOOTING

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.

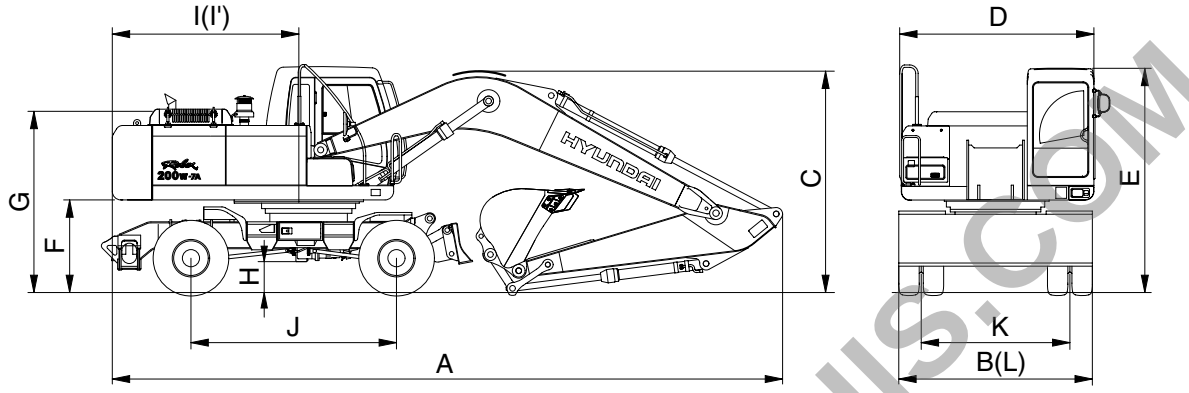


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. SPECIFICATIONS

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



20W7A2SP02

Description		Unit	Specification
Operating weight		kg (lb)	20500(45200)
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 of boom	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)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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.

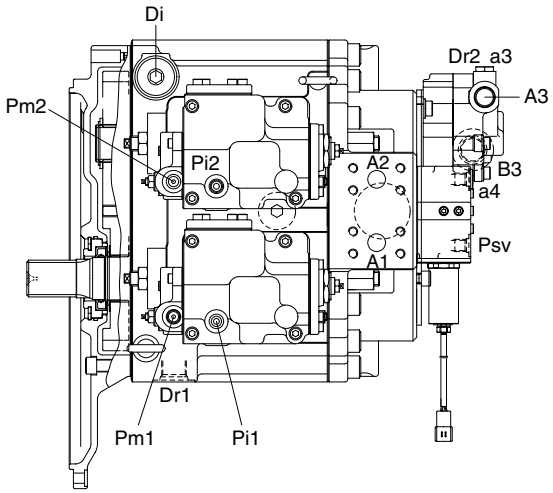
PREVIEW - YOUFIXTHIS.COM

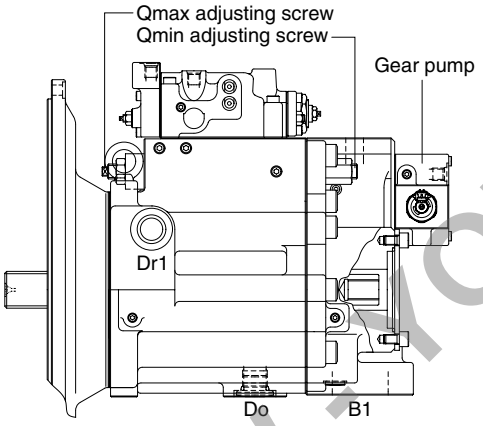
Download full manual at youfixthis.com

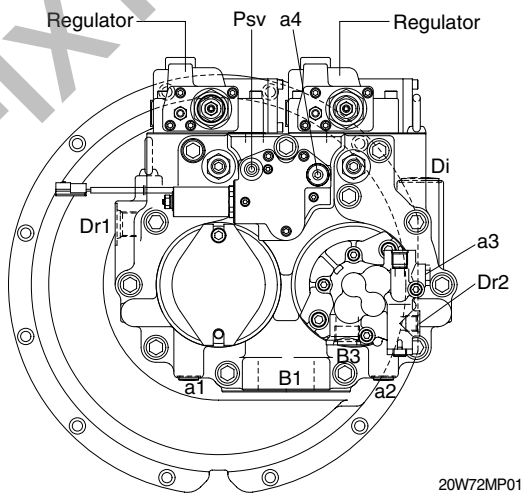
GROUP 1 PUMP DEVICE

1. STRUCTURE

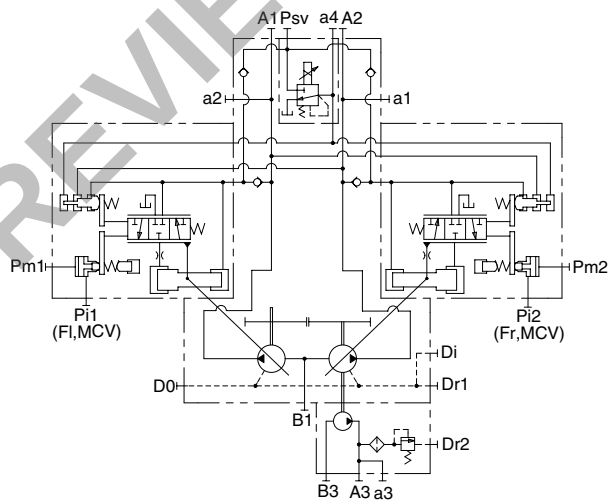
The pump device consists of main pump, regulator and gear pump.







20W72MP01



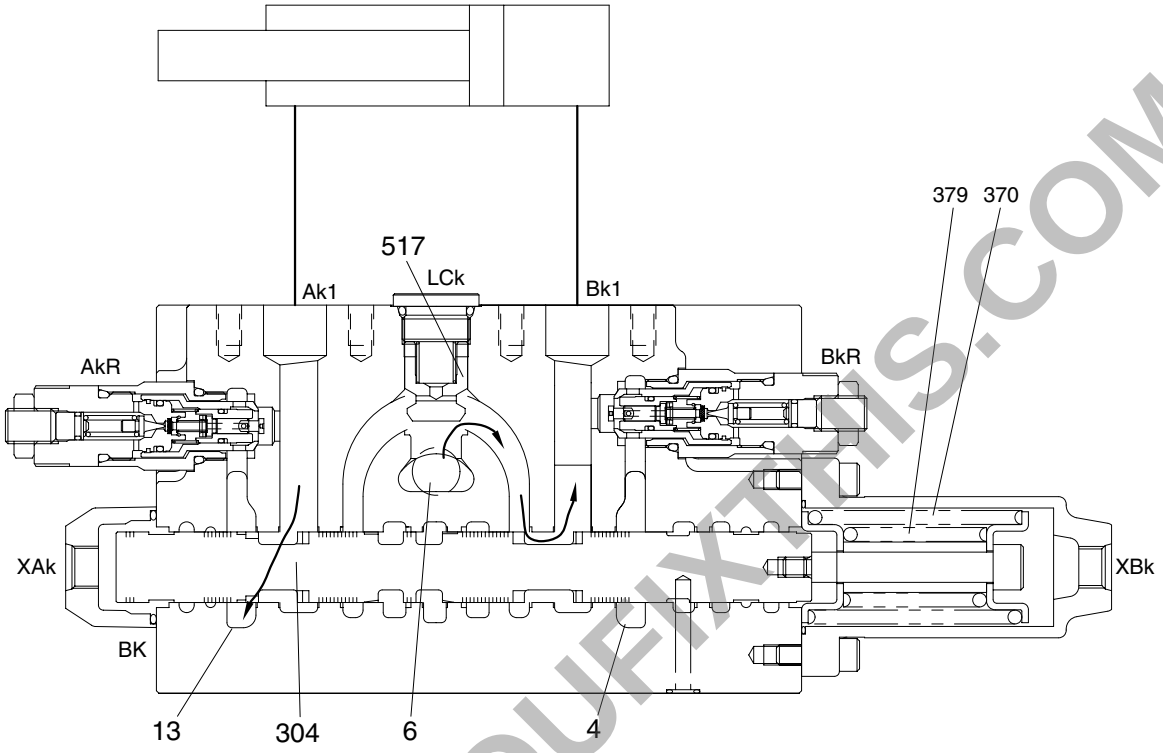
Port	Port name	Port size
A1,A2	Delivery port	SAE6000psi 3/4"
B1	Suction port	SAE2500psi 2 1/2"
Dr1	Drain port	PF 3/4 - 20
Pi1,Pi2	Pilot port	PF 1/4 - 15
Pm1,Pm2	Qmax cut port	PF 1/4 - 15
Psv	Servo assist port	PF 1/4 - 15
a1,2,4	Gauge port	PF 1/4 - 15
a3	Gauge port	PF 1/4 - 14
A3	Gear pump delivery port	PF 3/8 - 15
B3	Gear pump suction port	PF 3/4 - 20.5
Dr2	Gear pump drain port	PF 3/8 - 15
Di	Oil filling port	PF 3/4 - 20
Do	Outlet port	PF 3/4 - 20

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

(3) Bucket control

① Bucket roll in operation



During the bucket roll in operation, the pilot pressure from the pilot control valve is supplied to port XBk and shifts the bucket spool (304) in the left direction against the springs (370) and (379).

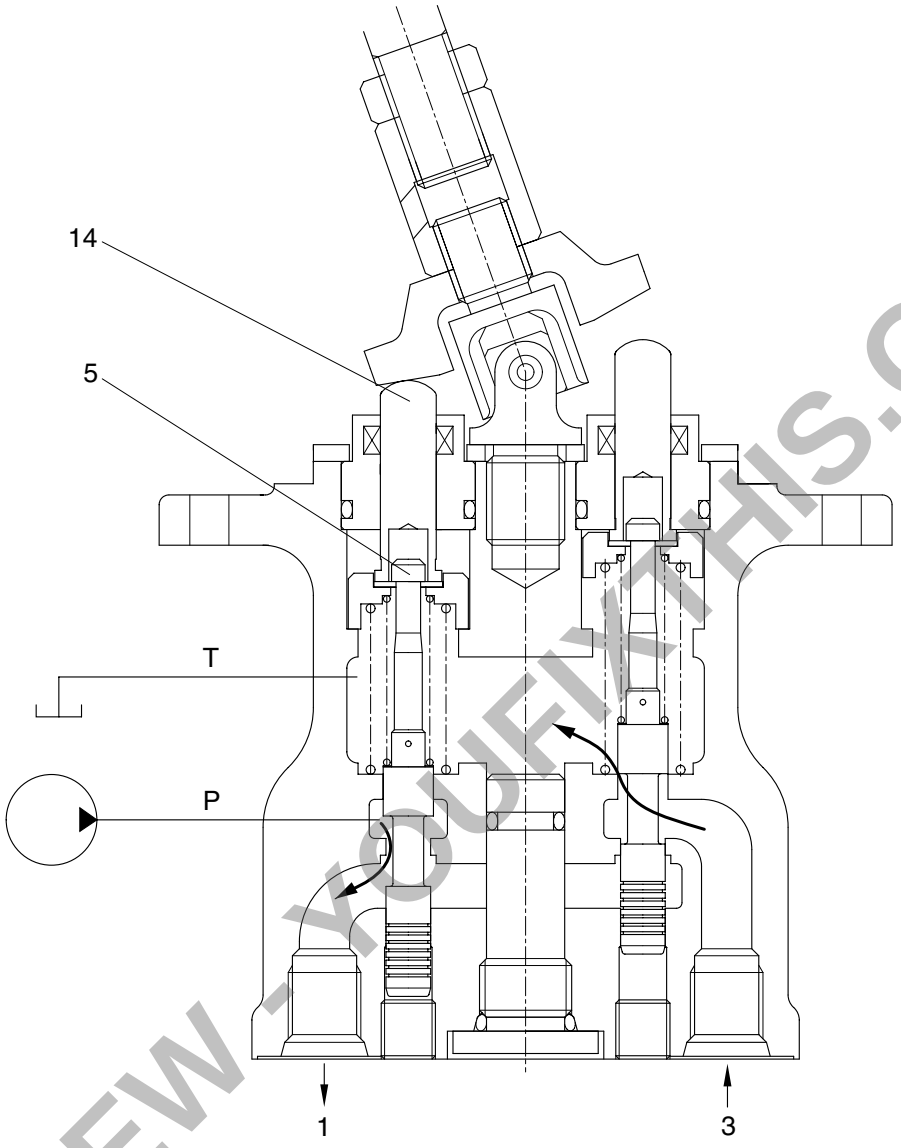
The hydraulic fluid from the pump A2 enters the parallel path (6) and is directed to the port Bk1 through the load check valve LCk (517). Following this it flows into the head side of the bucket cylinder.

The return flow from the rod side of the bucket cylinder returns to the bucket spool (304) through the port Ak1. Thereafter it is directed to the return port R2 through path (13).

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(2) Case where handle is tilted



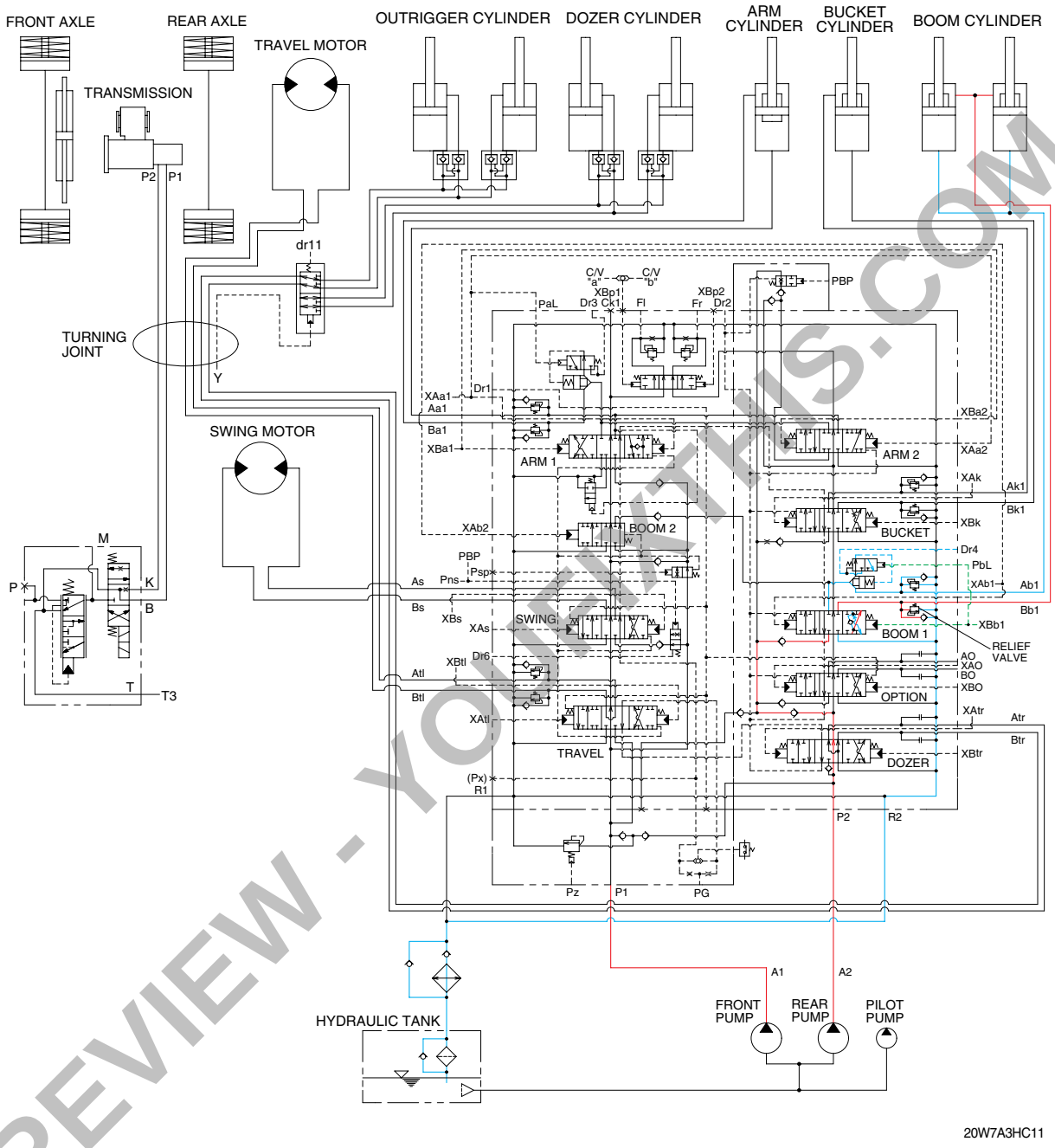
2507A2RL03

When the push rod (14) is stroked, the spool (5) moves downwards.
Then port P is connected with port (1) and the oil supplied from the pilot pump flows through port (1) to generate the pressure.
When the pressure at port (1) increases to the value corresponding to the spring force set by tilting the handle, the hydraulic pressure force balances with the spring force. If the pressure at port (1) increases higher than the set pressure, port P is disconnected from port (1) and port T is connected with port (1). If it decreases lower than the set pressure, port P is connected with port (1) and port T is disconnected from port 1.
In this manner the secondary pressure is kept at the constant value.
Besides, in some type, when the handle is tilted more than a certain angle, the upper end of the spool contacts with the inside bottom of the push rod and the output pressure is left to be connected with port P.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. BOOM DOWN OPERATION



20W7A3HC11

When the right control lever is pushed forward, the boom spools in the main control valve are moved to the down position by the pilot oil pressure from the remote control valve.

The oil from the rear pump flows into the main control valve and then goes to the small chamber of boom cylinders. At the same time, the oil from the large chamber of boom cylinders returns to the hydraulic tank through the boom spool in the main control valve.

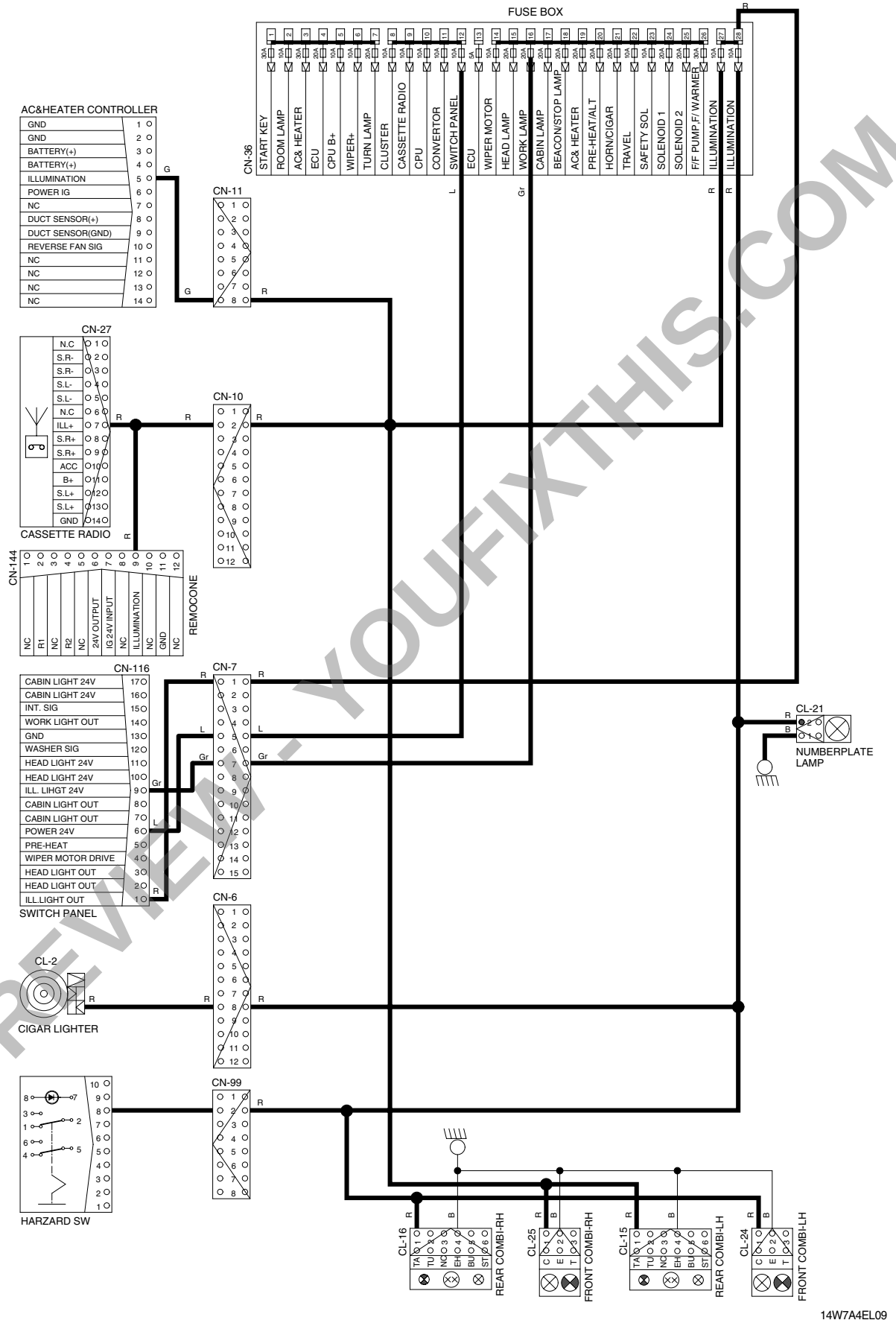
When the down speed of boom is faster, the oil returned from the large chamber of boom cylinder combines with the oil from the rear pump, and flows into the small chamber of the cylinder.

This prevents cylinder cavitation by the negative pressure when the rear pump flow can not match the boom down speed. And the excessive pressure in the boom cylinder rod end circuit is prevented by the relief valve.

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

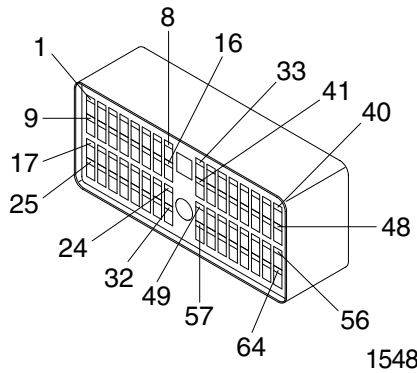
ILLUMINATION CIRCUIT



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

24) DEUTSCH SERVICE TOOL CONNECTOR

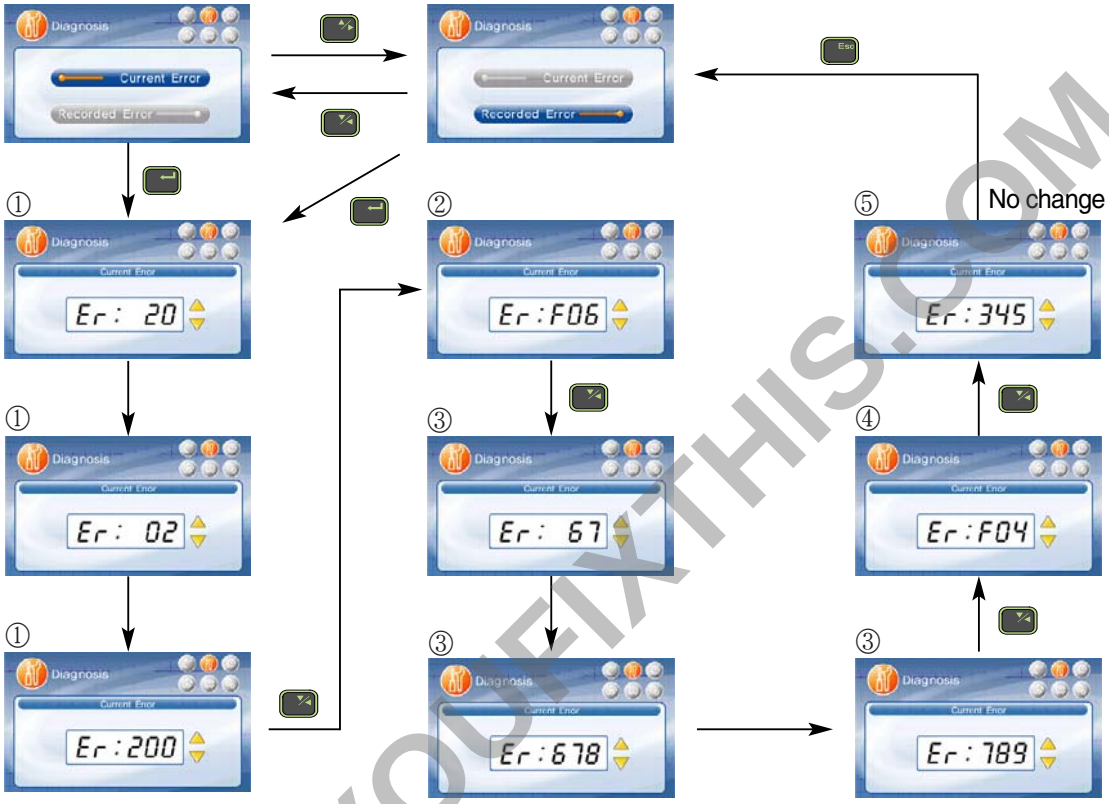
No. of pin	Receptacle connector(Female)	Plug connector(Male)
64	 15488668	

PREVIEW - YOUFIXTHIS.COM

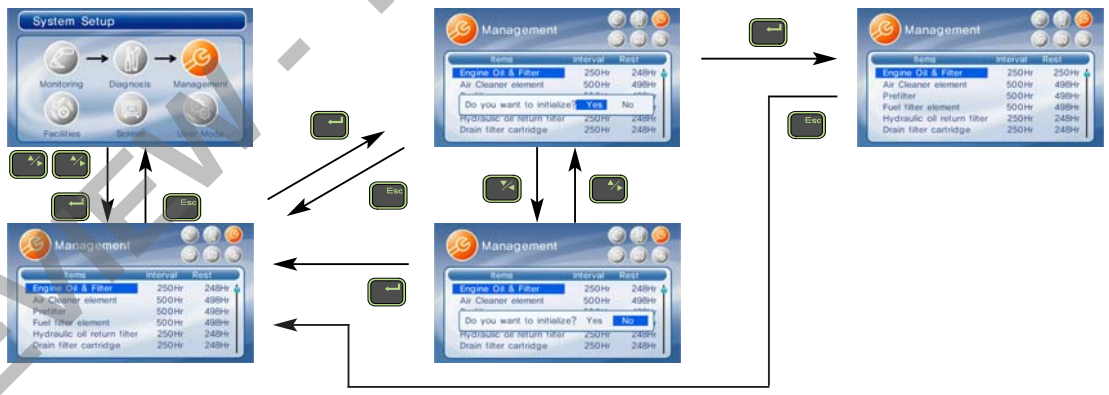
Download full manual at youfixthis.com

b. Protocol type 2

- If there are more than 2 error codes, each one can be displayed by pressing or switch respectively.
- 3 error codes (①SPN200200, ②FMI06, ③SPN6789, ④FMI04, ⑤345) display.



③ Maintenance



④ Setting

a. Time set



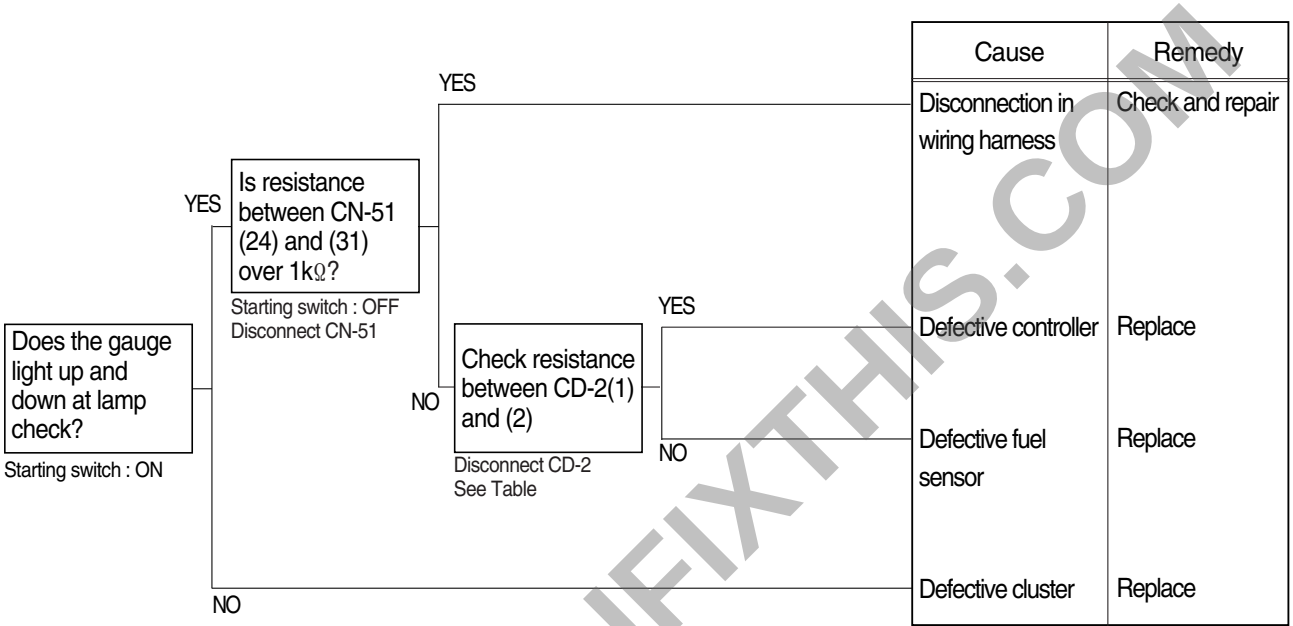
b. System lock - Reserved

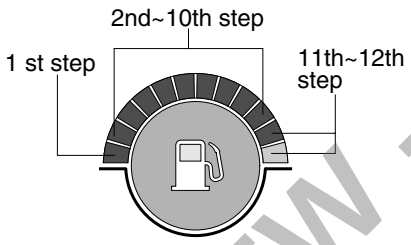
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

9. WHEN FUEL GAUGE DOES NOT OPERATE (Check warning lamp ON/OFF)

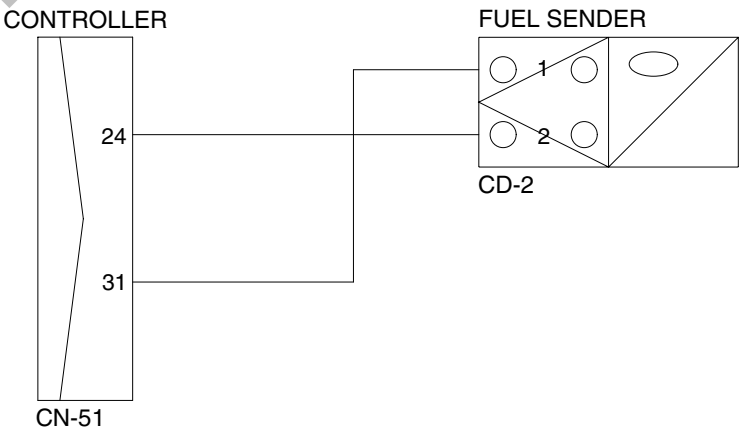
- Before disconnecting the connector, always turn the starting switch OFF.
- Before carrying out below procedure, check all the related connectors are properly inserted.
- After checking, insert the disconnected connectors again immediately unless otherwise specified.





Check Table

Item \ Range	1st step	2nd~10th step	11th~12th step
Unit Resistance(Ω)	700~601	600~101	~100
Tolerance(%)	±5	±5	±5



1607A6ES06

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. MAIN CONTROL VALVE

Part name	Inspection item	Criteria & measure
Casing	· Existence of scratch, rusting or corrosion.	· In case of damage in following section, replace part. - Sliding sections of casing fore and spool, especially land sections applied with holded pressure. - Seal pocket section where spool is inserted. - Seal section of port where O-ring contacts. - Seal section of each relief valve for main, travel, and port. - Other damages that may damage normal functions.
Spool	· Existence of scratch, gnawing, rusting or corrosion. · O-ring seal sections at both ends. · Insert spool in casing hole, rotate and reciprocate it.	· Replacement when its outside sliding section has scratch (Especially on seals-contacting section). · Replacement when its sliding section has scratch. · Correction or replacement when O-ring is damaged or when spool does not move smoothly.
Poppet	· Damage of poppet or spring · Insert poppet into casing and function it.	· Correction or replacement when sealing is incomplete. · Normal when it can function lightly without being caught.
Around spring	· Rusting, corrosion, deformation or breaking of spring, spring seat, plug or cover.	· Replacement for significant damage.
Around seal for spool	· External oil leakage. · Rusting, corrosion or deformation of seal plate.	· Correction or replacement. · Correction or replacement.
Main relief valve, port relief valve & negative control relief valve	· External rusting or damage. · Contacting face of valve seat. · Contacting face of poppet. · Abnormal spring. · O-rings, back up rings and seals.	· Replacement. · Replacement when damaged. · Replacement when damaged. · Replacement. · 100% replacement in general.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(2) Tightening torque

Part name	Bolt size	Torque		Wrench size	
		kgf · m	lbf · ft	in	mm
Hexagon socket head bolt (Material : SCM435)	M 5	0.7	5.1	0.16	4
	M 6	1.2	8.7	0.20	5
	M 8	3.0	21.7	0.24	6
	M10	5.8	42.0	0.31	8
	M12	10.0	72.3	0.39	10
	M14	16.0	116	0.47	12
	M16	24.0	174	0.55	14
	M18	34.0	246	0.55	14
	M20	44.0	318	0.67	17
PT Plug (Material : S45C) ※ Wind a seal tape 1 1/2 to 2 turns round the plug	PT1/16	0.7	5.1	0.16	4
	PT 1/8	1.05	7.59	0.20	5
	PT 1/4	1.75	12.7	0.24	6
	PT 3/8	3.5	25.3	0.31	8
	PT 1/2	5.0	36.2	0.39	10
PF Plug (Material : S35C)	PF 1/4	3.0	21.7	0.24	6
	PF 1/2	10.0	72.3	0.39	10
	PF 3/4	15.0	109	0.55	14
	PF 1	19.0	137	0.67	17
	PF 1 1/4	27.0	195	0.67	17
	PF 1 1/2	28.0	203	0.67	17

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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 socket bolt (1) and remove the pipe assy (2,3).

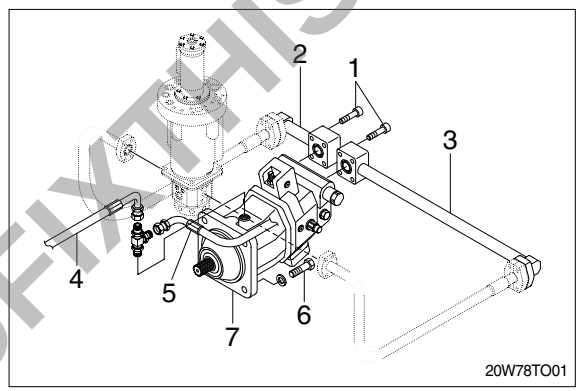
(5) Disconnect hoses (4,5).

(6) Loosen the hex bolt (6) and remove travel motor (7).

· Weight : 83kg (180lb)

※ When removing the travel motor assembly, check that all the hoses have been disconnected.





2) INSTALL

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

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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

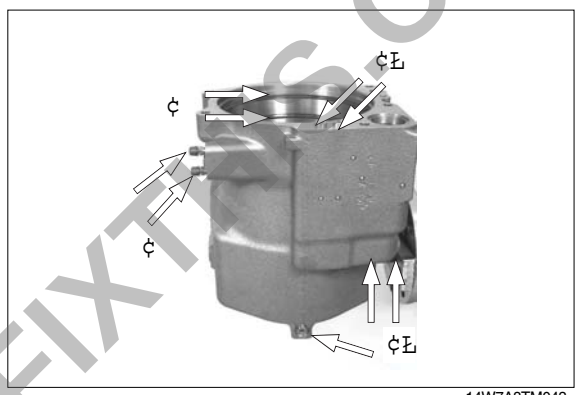
(41) Pull off the bearing inner ring - in case of an extremely fixed seat heat the bearing inner ring.

(S) Three-armed puller 5870 971 003



14W7A8TM042

(42) Remove both seals (1).
Remove both bleeder valves (2) and all screw plugs (3) with sealing and O-ring respectively.



14W7A8TM043

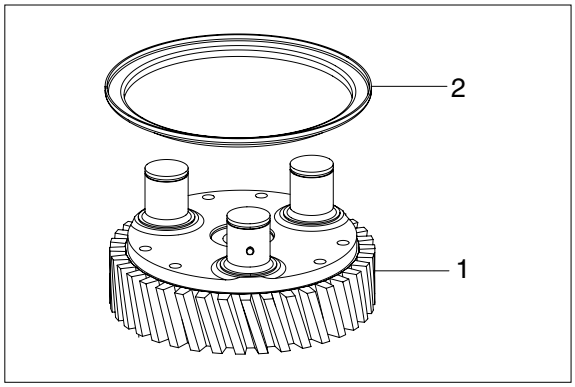
(43) Loosen the countersunk screws and remove the screen sheet.

※ Countersunk screws are installed with locking compound (Loctite) - heating for disassembly, if necessary !



14W7A8TM044

(44) Remove the screen sheet (2) from the planet carrier (1).



14W7A8TM045

PREVIEW - YOUFIXTHIS.COM

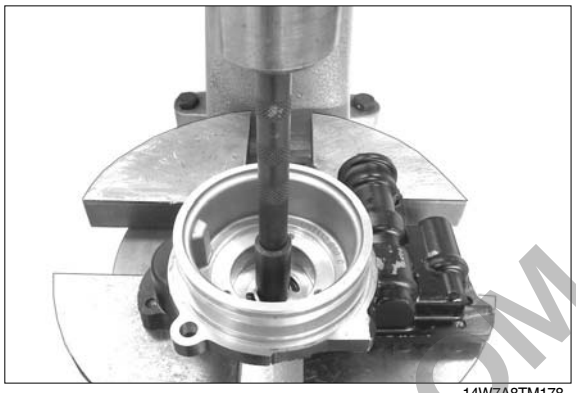
Download full manual at youfixthis.com

(8) Check passage of the orifice/oil bore in the housing bottom!

※ Insert the needle sleeve to installation dimension X.
X = 0.2~0.7㎜ below plane face/housing

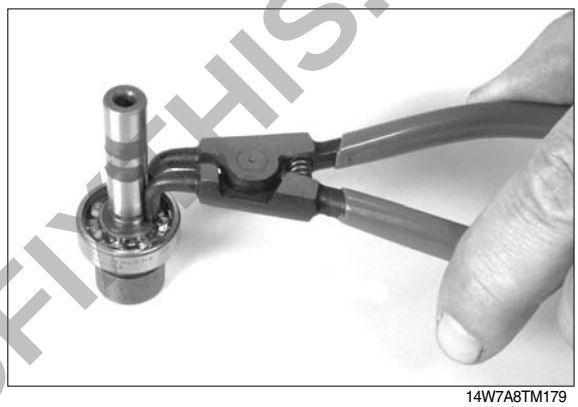
※ The exact installation position is ensured by use of the specified mounting tool!
(S) Mounting tool 5870 705 003

※ Insert the needle sleeve with marked face showing upwards!


14W7A8TM178

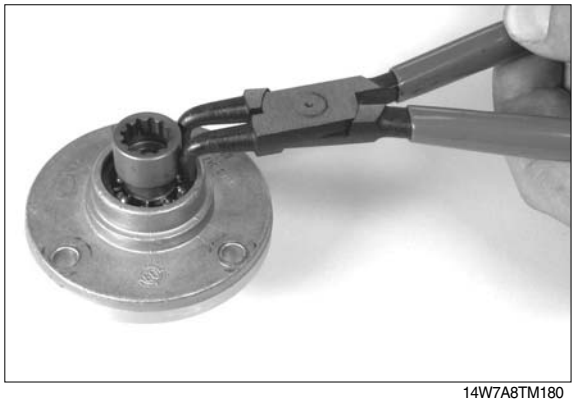
(9) Mount the ball bearing onto the shaft and fasten it with the retaining ring.

(S) Set of external pliers 5870 900 016


14W7A8TM179

(10) Press the preassembled pump shaft into the pump cover and fasten it with the retaining ring.

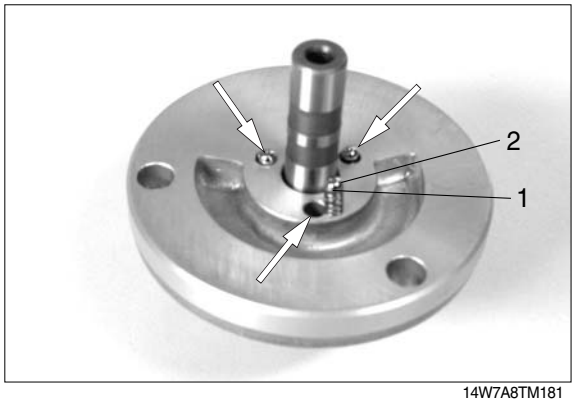
(S) Set of internal pliers 5870 900 014


14W7A8TM180

(11) Insert the compression springs (1) and ball (2) into bores (see arrows 3x).

※ Prior to installation oil single parts of the pump/rotor set (control housing, internal and outer rotor) use apply oil.

※ Keep the pump shaft/cover in vertical position-pay attention to the position of the inserted balls/compression springs-see steps figure TM 181~TM186.



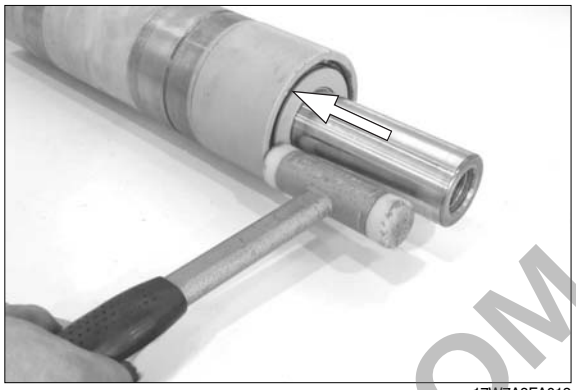
14W7A8TM181

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(12) Drive the guide into the cylinder tube (direction of arrow) until the circlip can be removed (see figure FA014).

(S) Plastic hammer 5870 280 003



17W7A8FA013

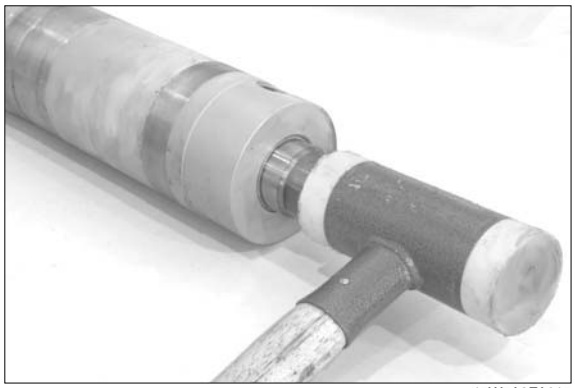
(13) Unsnap circlip.



17W7A8FA014

(14) Drive out piston rod together with guide from cylinder tube.

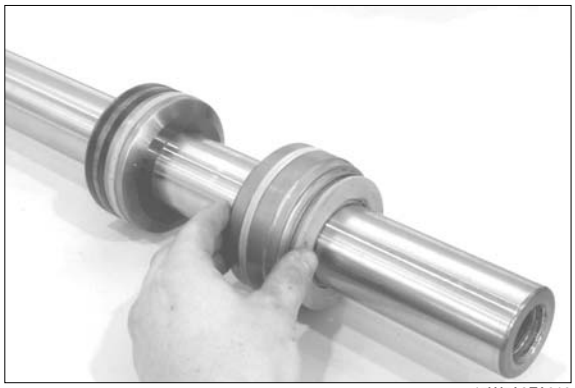
(S) Plastic hammer 5870 280 004



17W7A8FA015

(15) Pull off guide from piston rod.

Remove all sealing elements from piston, guide and cylinder.



17W7A8FA016

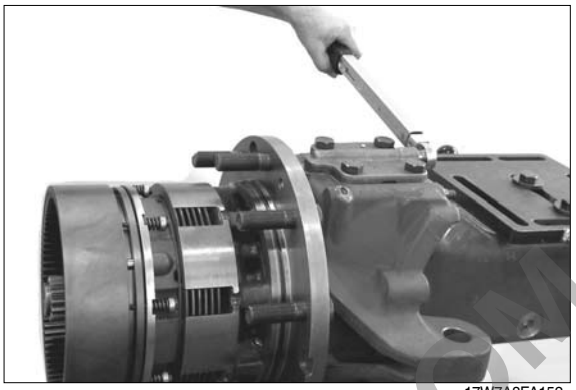
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(48) Dismantle HP pump.

Just for transport protection, install screw plug with O-ring in oil supply hole.

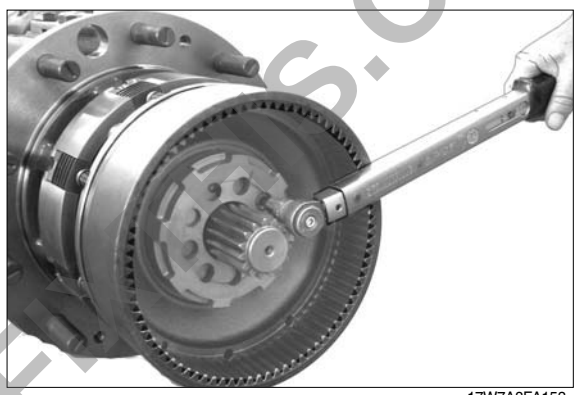
Tightening torque ····· M_A = 23Nm (M 14 × 1.5)



17W7A8FA152

(49) Secure slotted nut with cylinder screw - in this connection refer to comment on figure FA149.

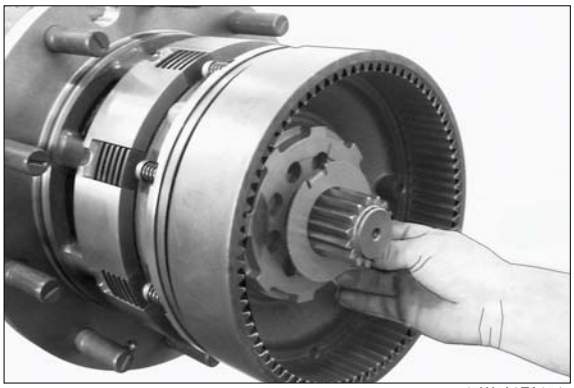
Tightening torque ····· M_A = 32Nm (M10 / 8.8)



17W7A8FA153

(50) Install thrust washer.

※ Observe installation position - ensure that both lugs of the thrust washers are engaged each in a spare fixing hole of the slotted nut.



17W7A8FA154

(51) Mount thrust washer (retaining ring fixing) - with shoulder showing to retaining ring - then snap retaining ring.

(S) Set of external pliers 5870 900 015



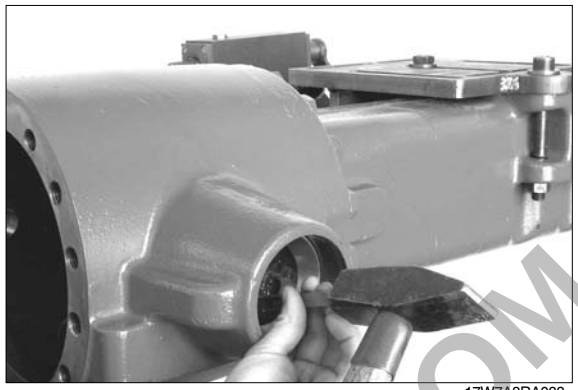
17W7A8FA155

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(13) Drive the bearing outer ring out of the inner bearing hole - pay attention to the shim behind (contact pattern / bevel gear set).

※ Mark the shim (with regard to position / bearing allocation) - assembly aid.



17W7A8RA083

6) DIFFERENTIAL

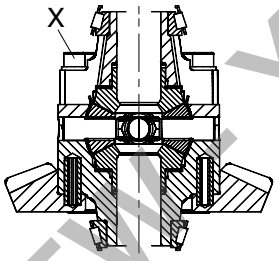
(1) Pull both taper roller bearings from the differential carrier.

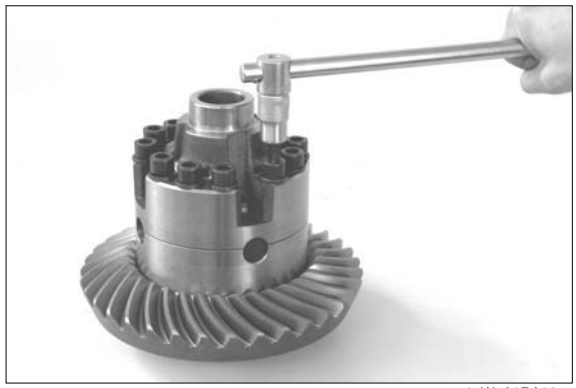
(S) Gripping insert - Super 5873 001 034
Back off insert 5870 026 100
Pressure piece 5870 100 058



17W7A8RA084

(2) Loosen the threaded joint (see position X).

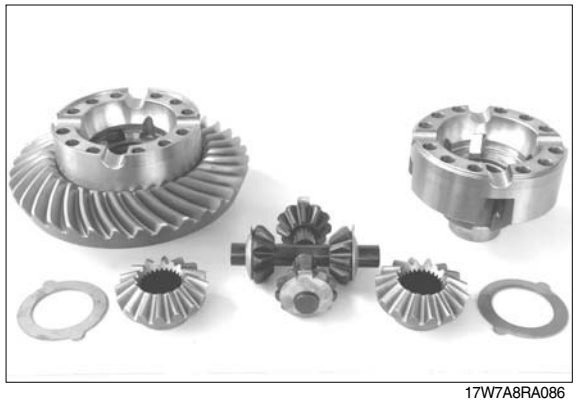




17W7A8RA085

※ The hexagon screws are mounted with locking compound (Loctite) - disassembly is more difficult - if necessary, heat the threaded joint section (disassembly aid).

(3) Separate the differential carrier halves and remove the releasing individual parts.



17W7A8RA086

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. REMOVAL AND INSTALL

1) BUCKET CYLINDER

(1) Removal

※ Expand the arm and bucket fully, lower the work equipment to the ground and stop the engine.

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

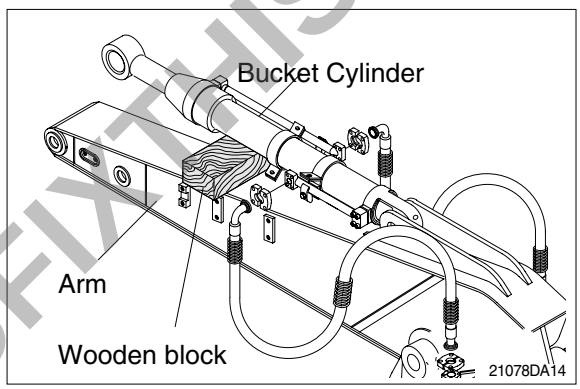
※ Loosen the breather slowly to release the pressure inside the hydraulic tank.

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

※ Fit blind plugs in the hoses after disconnecting them, to prevent dirt or dust from entering.

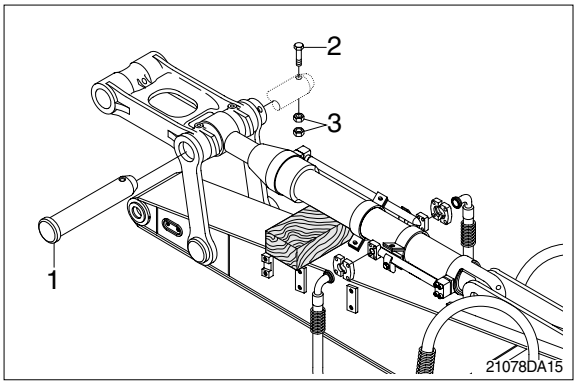


① Set block between bucket cylinder and arm.

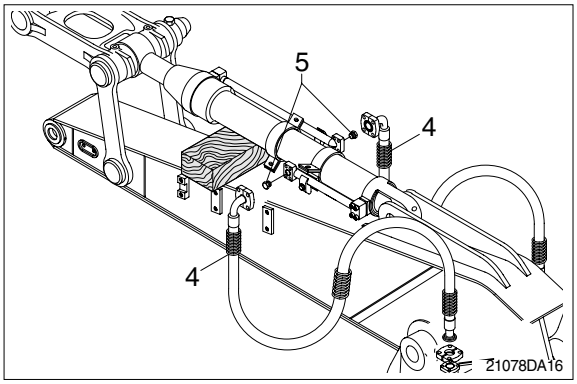


② Remove bolt (2), nut (3) and pull out pin (1).

※ Tie the rod with wire to prevent it from coming out.



③ Disconnect bucket cylinder hoses (4) and put plugs (5) on cylinder pipe.



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 666 pages

The full manual includes:

- All 666 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Hyundai R200W-7A Shop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual