MODEL **LS-4300**
SERIES **C SERIES II**
BOOK NO. **WEL4305-0E** (778)
SERIAL NO. Shop Manual

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3 Handling of the Interchangeable (Common) Parts

3.1 Packings

1) As a rule, replace packings, gaskets, and copper packings with new ones.
2) Coat the gasket for particular area with liquid packing
* *Use cautions when applying liquid packing.*
3) Remove flaw, dust, paint, oil, or previously used liquid gasket completely.
4) Evenly coat with specified liquid gasket and let it dry for few minutes
5) When it is dried to touch, mate the gaskets
6) Leather packing should be assembled after dipping in oil

3.2 "O"-Ring

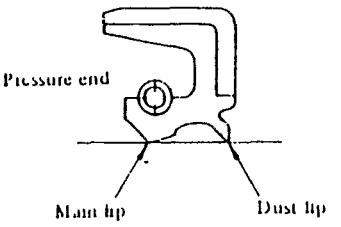
1) If "O"-ring has been hardened after long storage, discard even if it is unused
2) Use only "O"-rings specified in detailed parts list For the lubricated area in engine in particular, "O"-rings of special material like silicon rubber are being used for the purpose of heat resistance as well as prevention of deterioration Therefore do not use substitute parts
3) Periphery of "O"-ring is marked with either blue or green dot for following identifications

ID	Type	Symbol	Hardness	Purpose	Type of rubber
Blue 1 dot	JIS B2401	1A	70±5	Mineral oil resistant for low pressure	NBR
Blue 2 dots	JIS B2401	1B	90±5	Mineral oil resistant for high pressure	NBR
Red 1 dot	JIS B2401	2	70±5	Gasoline resistant	NBR
Yellow 1 dot	JIS B2401	3	70±5	Vegetable oil resistant	CR
No dot	JIS B2401	4C	70±5	Heat and cold resistant	Silicon rubber
Green 1 dot	JIS B2401	4D	70±5	Heat and oil resistant	Flourine rubber

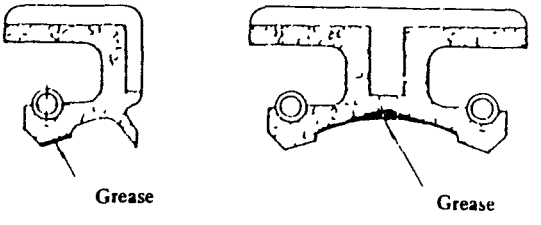
4) Coat "O"-rings with oil before installation to avoid flaws.
Silicon rubber is easily torn

3.3 Oil Seal

1) Pay attention to the direction of oil seal lips



2) Take care that dust does not get on oil seals, and make sure there is no rust or flaw (especially on lip surface).
3) For assembling oil seal, apply grease in the following manner in order to prevent early dry friction
a) Single lip type oil seal
Apply to entire periphery on the opposite side of lip's seal end uniformly with finger to the extent that it does not build up
b) Double lip type oil seal
Apply to entire periphery of lip's space with finger to 40 - 60% of the space



4) Make sure that there is neither dust, flaw, nor rust on the contact surface (shaft area) of the oil seal, and apply grease or lubrication oil for smooth installation.
5) For checking a flaw on lip surface, lightly sweep with wire If it catches, replace the oil seal.

⚠ DANGER

- Release all hydraulic oil pressure according to the procedures outlined below before installing or removing a hydraulic pressure gauge. Use extreme care when working with circuit with accumulator. Make sure the pressure is relieved.

1 Position the attachment on the ground
2 Stop the engine
3 Place the starter key in the ON position, and put the control switch at ON
  Note NEVER perform this operation with the starter key and the control switch at their OFF positions.
4 Move the right and left operation levers ten times each in all four directions–right, left, backwards and forwards (Move the travel levers back and forth about ten times each)
5 Slowly loosen the air breather on hydraulic oil tank to bleed the air from the hydraulic oil tank
  Note Do not loosen the air breather rapidly
6 Turn the starter key and the control switch back to OFF.

- Maintain the predetermined pressure setting when adjusting the pressure

CONTENTS

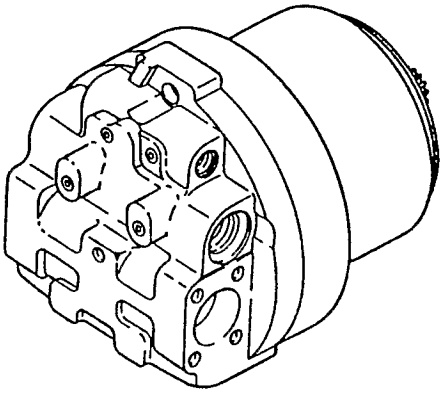
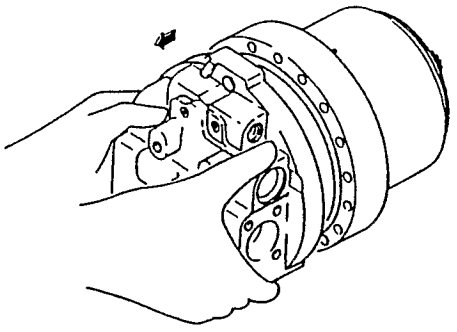
Ref No	Part Name	Q'ty
202	Holder B, S/A	1
-1		1
-2	Planetary gear B	3
-3	Needle roller	45
-4	Gear shaft B	3
-5	Thrust washer	6
-6	Spring pin	3
203		1
-1		1
-2		4
-3		72
-4		4
-5	Floating bush	4
-7		8
-8		4
204	Drive gear	1
205	Thrust plate	1
206	Sun gear B	1
207	Snap ring	1
208		1
209		1
210	Flange	1
211	Floating seal	1
212	Angular bearing	2
213	Housing	1
214	Shim	1
214		1
214		1
214		1
214		1
215	Pin	4
216	Socket head bolt	4
217		16
218	Plate	4
219	Ring gear	1
220	O-ring	1
221		24
222		3
223	Thrust plate	1
223		1
223		1
223		1
223		1
224	Cover	1
225		16
226	Plug	2
227		2
229		1
230		1
231		3
300		3
400	Name plate	1
500	Drive screw	2
600	Coupling	1
601	Spring pin	1

Ref No	Part Name	Q'ty
103	Shaft	1
104	Cylinder block	1
105	Valve plate	1
106	Piston assembly	9
-1		1
-2	Shoe S/A	1
107	Retainer plate	1
108	Retainer holder	1
109	Bellows	1
110	Screw ball	2
111		2
-1		1
-2	Shoe assembly	1
112	Roller bearing	1
113		1
114	Snap ring	1
115		1
116	Spring	1
117	Collar	1
118	Pin	1
119		3
120	Socket head bolt	14
121	Oil seal	1
122	O-ring	1
123		1
124		1
125	Brake piston	1
126	Collar	1
127	Friction plate	3
128	Disk	2
129	Pin	2
130	Spring	8
131		1
132		1
133	Take-up ring	1
134		1
135		3
136	Plug	2
137		4
139	Orifice	1
140		2
141		2
142	Spring	2
143	Shim	3
144		3
145		3
200		1
201	Holder S/A	1
-1		1
-2	Planetary gear A	3
-3	Needle bearing	3
-4	Gear shaft B	3
-5	Thrust washer	6
-6	Spring pin	3

Ref No	Part Name	Q'ty
100	Piston motor	1
101	Case	1
102	Base plate assembly	1
-1		1
-2	Plunger assembly	1
-2-1		1
-2-2	Check valve	2
-2-3	Spring	2
-2-4	Plug	2
-2-5	O-ring	2
-3	Spring seat	2
-4	Spring	2
-5	Spring seat	2
-6	Cap assembly	2
-6-1		1
-6-2		1
-6-4	Socket head bolt	4
-6-5	Steel ball	1
-6-6	Spring	1
-6-7	Plug	1
-6-8		1
-7	Relief valve assembly	2
-7-1	Relief housing assembly	1
-7-2	Poppet	1
-7-3	Poppet seat	1
-7-4	Spring seat	1
-7-5	Spring	1
-7-6	Plug	1
-7-7	Set screw	1
-7-8	Nut	1
-7-9	O-ring	1
-7-10		1
-7-11	Back-up ring	2
-7-12	Spring guide	1
-7-13		1
-7-14	Back-up ring	1
-7-15	Free piston	1
-7-16		1
-7-17		2
-8	Plug	6
-9		2
-12	Valve	1
-13		1
-14		1
-15		1
-16		1
-17	Spring	1
-18		2

6 4 Troubleshooting table for double counterbalance

Abnormality	Possible cause	Countermeasure or remedy
I The motor does not revolve, or the revolution speed is slow	1. The plunger is not switched. 1) Pressurized fluid is not supplied to the pilot 2) Foreign material is caught between the plunger and the body. 3) The orifice is clogged	Inspect the pipe for damage Completely remove foreign materials, repair the damaged area, and reassemble after washing. Here, replace if damage is so severe that there is much leakage Reassemble after washing
II The motor does not stop, or the stopping is slow.	1. The plunger does not return 1) Foreign materials have entered and become caught. 2) The spring is broken 3) The spring is not assembled 4) The orifice is clogged	Completely remove foreign materials, repair the damaged area, and reassemble after washing Here, replace if damage is so severe that there is much leakage Reassemble after washing. Replace the spring. Then, completely remove the foreign materials, repair the damaged area, and reassemble after washing Here, replace if damage is so severe as to cause much leakage Reassemble after washing Assemble the spring in the specified position. Reassemble after washing.
III The revolution varies	1 The plunger does not move smoothly 1) Foreign materials have entered and become caught 2) The orifice is clogged.	Completely remove foreign materials, repair the damaged area, and reassemble after washing. Here, replace if damage is so severe that there is much leakage Reassemble after washing.
IV Abnormal noise is heard	1. The plunger is not damaged 1) Foreign materials have entered and become caught 2) The spring is damaged 3) The orifice is clogged.	Completely remove foreign materials, repair the damaged area, and reassemble after washing. Here, replace if damage is so deep that leakage is much Reassemble after washing Replace the spring Then, completely remove the foreign materials, repair the damaged area, and reassemble after washing Here, replace if damage is so severe that there is much leakage. Reassemble after washing

Disassembling procedure	Cautionary points during assembling
b Remove the motor from the vise, horizontally place the motor on the working bench and fix the motor 	
c Remove the socket head bolt ⑳, and using a screw-driver or similar, remove the base plate ② 	Don't forcibly pry off the base with the driver Applicable tool No 18 Screwdriver

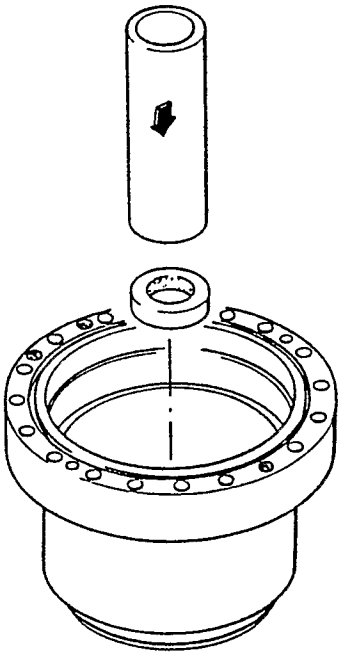
7.5 Assembling procedure

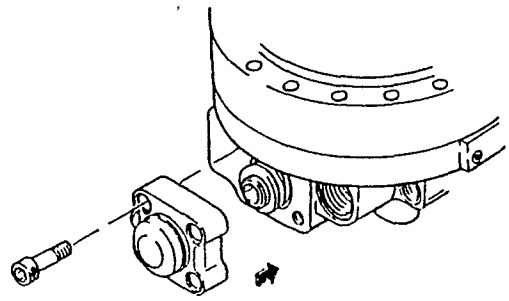
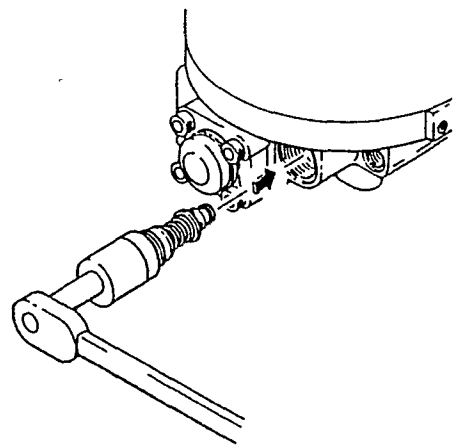
7 5.1 Cautionary points before assembling

a) Wash each part with clean washing oil, and apply air.
b) When handling cleaned part, take sufficient care to keep it free from sticking dust, hit marks and damage
c) Previously coat grease on the oil seal and O-ring. (Particulally on the oil seal lip section)
d) Before assembling, coat clean hydraulic oil on the sliding area and bearing area
e) Tighten each fastening area to the specified torque
f) Replace the seals, bearings and pins with new ones

7.5.2 Assembling

Proceed with the following for assembling.

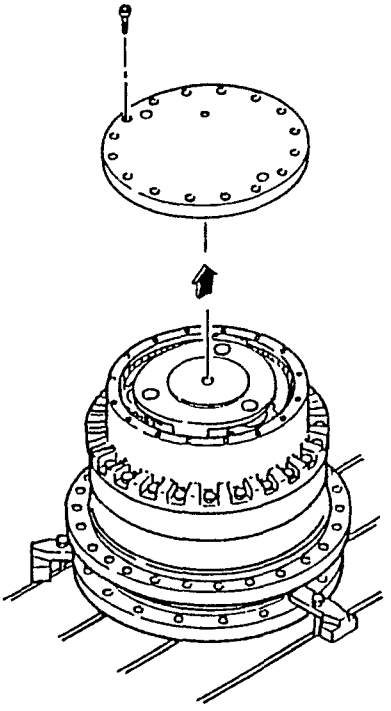
Assembling procedure	Cautionary points during assembling
1. Oil seal assembling Press-fit the oil seal to the case ① 	Don't mistake the press-fitting direction. Verify that the oil seal is completely press-fit Applicable tools No.36 Oil seal press-fitting jig

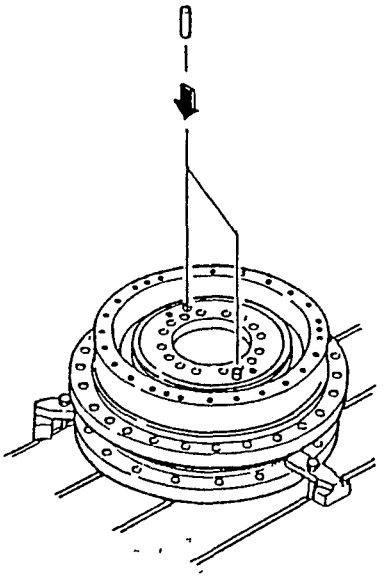
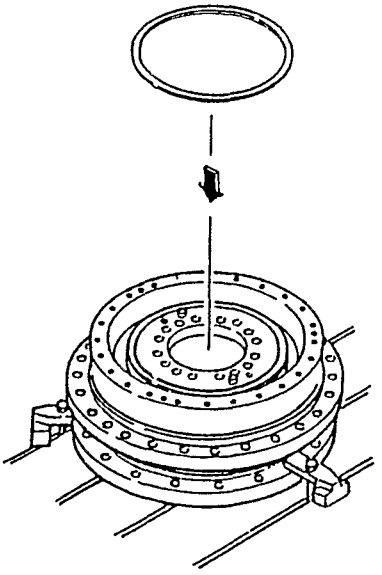
Assembling procedure	Cautionary points during assembling
b) Assemble the cap S/A ㉖ on the base plate ㉑, and fasten it with the socket head bolts ㉖-㊹. 	Since it is pressed by the spring ㉔, tighten the socket head bolts ㉖-㊹ half-way, supporting the sub-assembly by hand. Tightening torque 10 to 11 kg-m (72.3 to 79.6 ft lb) Applicable tool No.3 Preset type torque wrench No.5 Ratchet handle for socket wrench No.11 Hex. bit for socket wrench No.14 Hex. bar wrench
c) Assemble the relief valve S/A ㉗ on the base plate ㉑, and tighten the plug ㉗-㊻ to the specified torque 	Tightening torque 27 to 30 kg-m (195.3 to 217.0 ft lb) Applicable tools No 4 Preset type torque wrench No.5 Ratchet handle for socket wrench No 9 Socket for socket wrench

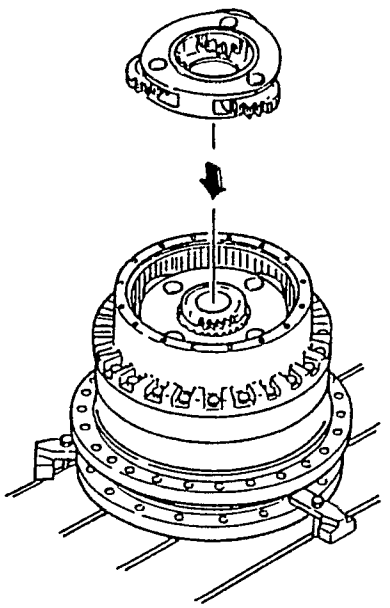
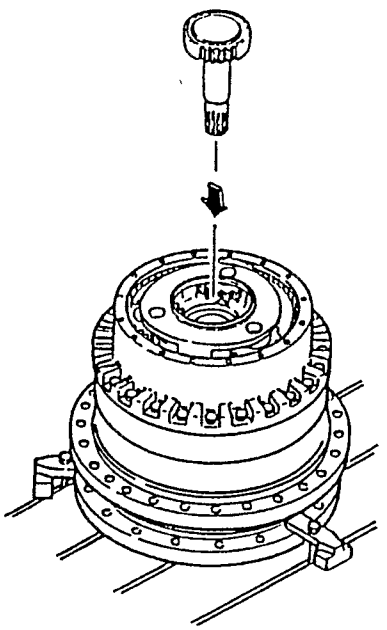
9 3 Disassembling procedure
9 3 1 Cautionary points before disassembly

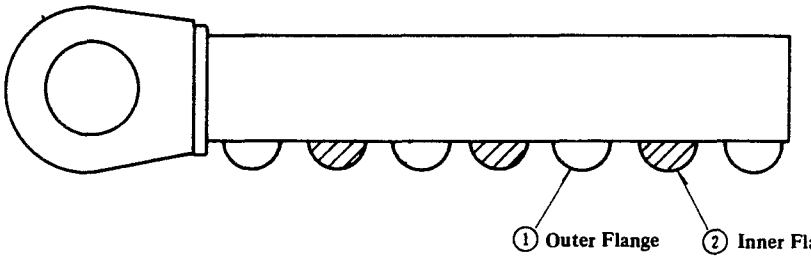
a) Completely remove mud, dirt, etc which sticks to the outer surface (Sufficiently wash the outside)
b) Scribe matchmarks to allow for accurate regeneration of the original assembly
c) Drain the lubricant from the case.
d) Select a dust-free working site, and be careful to prevent mud, dirt, etc from sticking to the parts
e) Take sufficient care to prevent scratch marks and damage when a part falls or bumps into another object

9.3 2 Disassembly

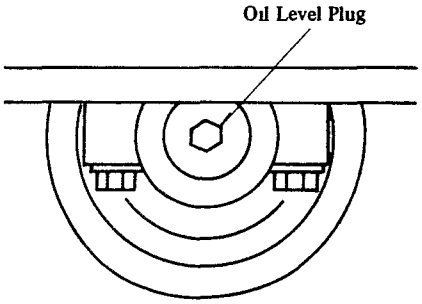
Disassembling procedure	Cautionary points during disassembling
1. Cover disassembling Facing the motor mounting surface downward, fix the Reduction gear Loosen the socket head bolt ㉕, and remove the cover ㉔. 	Applicable tools No.2 Preset type torque wrench No.5 Ratchet handle for socket wrench No.7, 10 Hex. bit for socket wrench No.12, 15 Hex. bar wrench No 17, 21, 22 Hanger

Assembling procedure	Cautionary points during assembling
f) Press-fit the pin ⑮ to the flange ⑩. At this time, adjust the pin ⑮ to protrude 21.5 to 22.2mm beyond the flange ⑩  2 Holder C ㉛ assembling a) Assemble the same number of shims ⑭ as in the disassembling procedure 	Applicable tools No.25 Plastic hammer

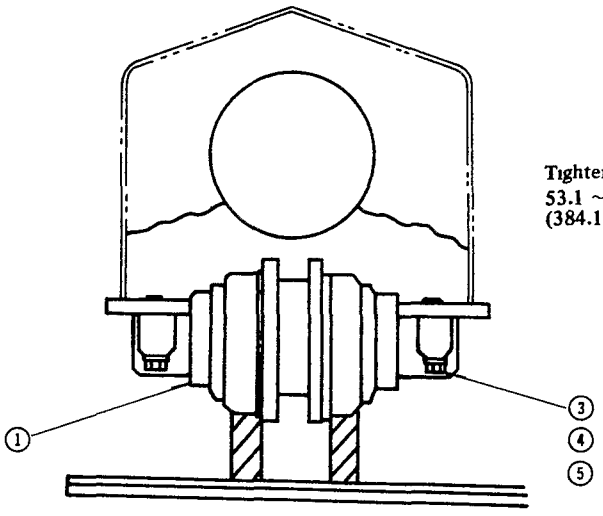
Assembling procedure	Cautionary points during assembling
10 Assemble holder A S/A ①  11 Assemble the drive gear ④ 	



Weight: 62 kg (136.7 lbs) Weight: 60 kg (132 lbs)



① Track Roller
② Track Roller
③ Bolt M20 × 75
④ Washer M20
⑤ Locktite #262



Tightening Torque·
53.1 ~ 62 kg-m
(384.1 ~ 448.4 ft/lbs)

[Note]

1 Each bolt shall be coated with Loctite #262

2 Oil level plug must be positioned toward the ouside of the machine

CONTENTS

5) The slip rate of the hydraulic motor is much.
Check the drain rate of the hydraulic motor. If the rate is 500cc/min or less, it is producted that the motor is not abnormal.

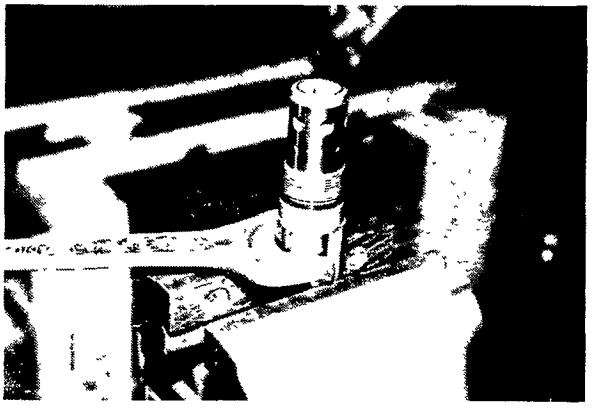
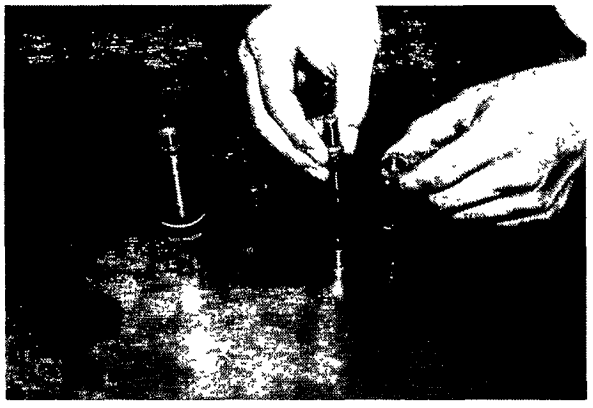
Problems	Cause	Remedy
The slip rate is high when the torque driving the hydraulic motor from the outside operates.	1. The relief valve operates improperly. 2. The seat of the plunger is defective.	1. Same as in Item 1). 2. Replace.

6) Fluid leakage
i) Fluid leaks at the oil seal

Problems	Cause	Remedy
Fluid leaks at the oil seal.	1. Dust is caught by the lip, and it is damaged. 2. The shaft is damaged or worn. 3. Since the pressure in the casing is abnormally high, the lip of the oil seal is turned over. 4. The shaft is rusted.	1. Replace the oil seal. 2. Dislocate the lip or the shaft, and replace if necessary. 3. Repair the drain pipe if clogged. 4. Disassemble and recondition

ii) Fluid leaks at the joining surface.

Problems	Cause	Remedy
Fluid leaks at the joining surface.	1. Forget installing O-ring. 2. O-ring is scored. 3. The seal surface is scored. 4. The bolt is loose or broken.	1. Install O-ring properly and assemble. 2. Replace. 3. Disassemble and recondition. 4. Retighten to the specified torque, or replace.

	Disassembling procedure	Cautionary points
15	④ Relief valve disassembling Hold the plug (201) and the body (101) respectively, and pressing them against each other, bend them. The C-ring will be removed for disassembly. The piston (302), plunger (301) and seat (341) can be removed from the body side. The springs (321 and 322) can be pulled out from the plug side. Face the plug downward and lightly hit it, and the piston (303), spring (323) and spring seat (333) will be ready for pulling out.  	If they are bent with the cut end of the C-ring facing upwards, it will facilitate removal. If any damage is found on the parts, remove them as an assembly unit.

The above completes the disassembling procedure. Sufficiently check the parts for abnormalities.

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5 Maintenance procedure

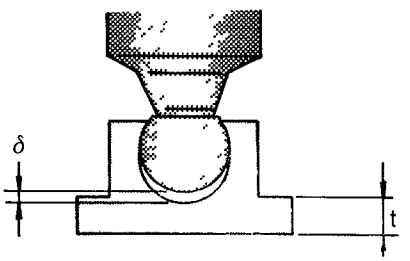
5-1 Replacement criteria for worn parts

If any part is worn more than the following limits, replace or readjust the part.

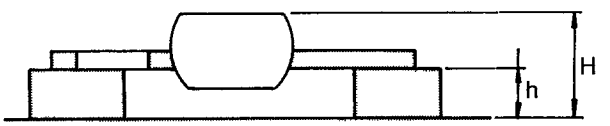
However, if any excessive damage is apparently observed, it should be corrected regardless of the limits.

Table 4 Part replacement criteria

Item	Standard dimensions (mm)	Recommended value (mm)	Remedy
Clearance (D–d) between piston and cylinder bore	0.032 (0.001″)	0.062 (0.002″)	Replace the piston or cylinder.
Play of staked area between the piston and shoe	0	0.3 (0.012″)	Replace the piston assembly.
Shoe thickness (t)	6 (0.24″)	5.8 (0.23″)	
Assembly height (H–h) of retaining plate and shperic bushing	7 (0.28″)	6.5 (0.256″)	Replace the retaining plate and spheric bushing as an assembly.
Thickness of friction plate	4.0 (0.16″)	3.6 (0.142″)	Replace.



Play Between The Piston And Shot (δ)
Shot Thickness (t)



Assembly Height (H–h) Of Retaining Plate And Shperic Bushing

5-2 Reconditioning criteria for sliding surfaces

If any sliding surface is rougher than the following limits, recondition or readjust the surface.

Table 5 Reconditioning criteria for sliding surfaces

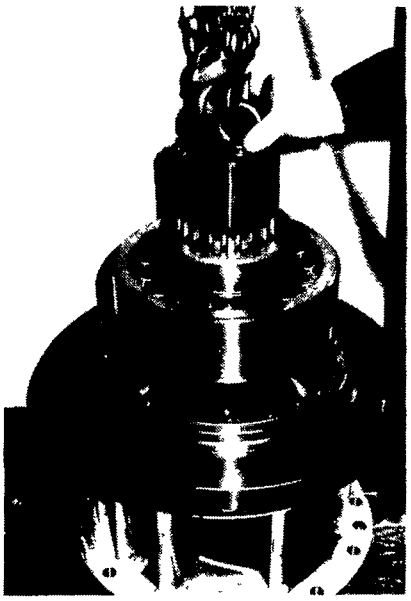
Part name	Standard surface roughness	Surface roughness which requires reconditioning
Shoe	0.8–Z (Ra=0.2) (Lapping)	3–Z (Ra=0.8)
Shoe plate	0.4–Z (Ra=0.1) (Lapping)	3–Z (Ra=0.8)
Cylinder	1 6–Z (Ra=0.4) (Lapping)	12.5–Z (Ra=3.2)
Valve plate	0.8–Z (Ra=0.2) (Lapping)	6.3–Z (Ra=1.6)

Note:

1. Lap each sliding surface to the standard surface roughness or finer.
2. If the spheric sliding area between the retaining plate and the spheric bushing is damaged, replace them as an assembly.

6-6 [Assembling]

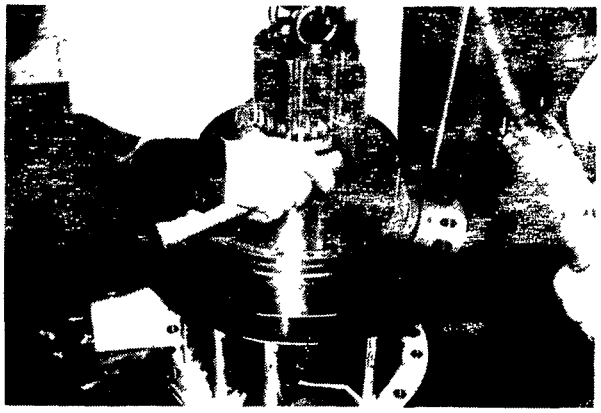
1



Turn over the shaft assembly, and slowly enter it into the turned-over casing assembly.

Tool: Eyebolt

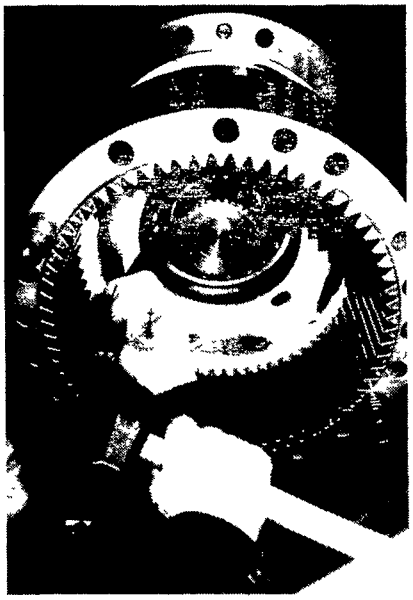
2



Apply light hits of hammer.

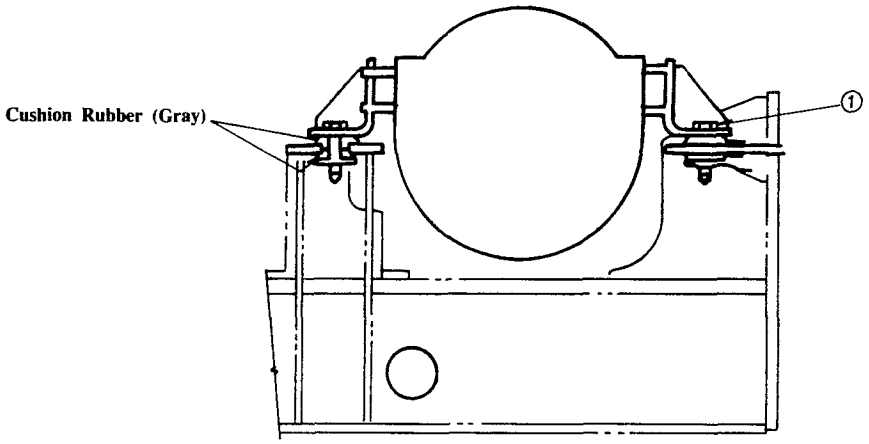
Tool: Hammer

3



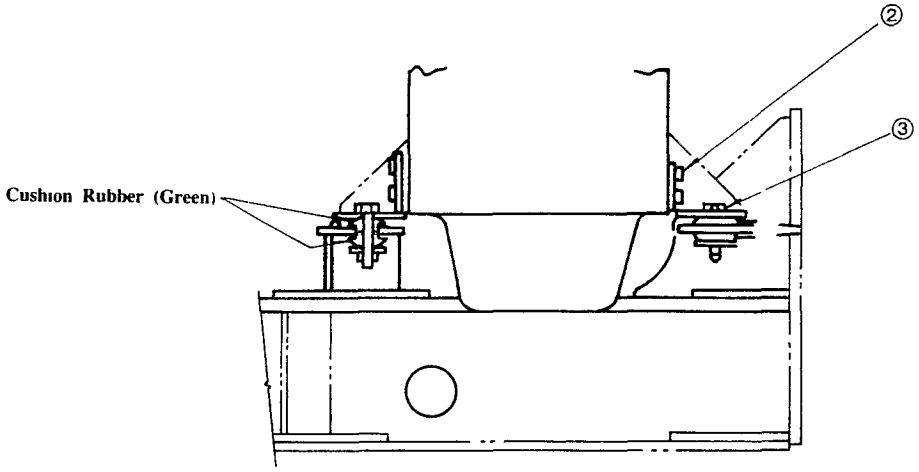
Suspend the casing assembly, and lightly hit the shaft assembly from the bottom side to correct the inclination of the shaft assembly. Then, assemble them.

Tools: Hammer
Chisel



Hydraulic Pump Side

Tightening Torque.
① 29.5 ~ 34.4kg-m (213 ~ 249ft lbs)



Fan Side

② 11.1 ~ 12.9kg-m (80 ~ 93ft lbs)
③ 29.5 ~ 34.4 (213 ~ 249ft.lbs)

① Bolt M20 × 260
② Bolt M12 × 35
③ Bolt M12 × 130

[Note]

1 Cushion rubber for front and rear have different color

2 Each bolt shall be coated with Loctite #262

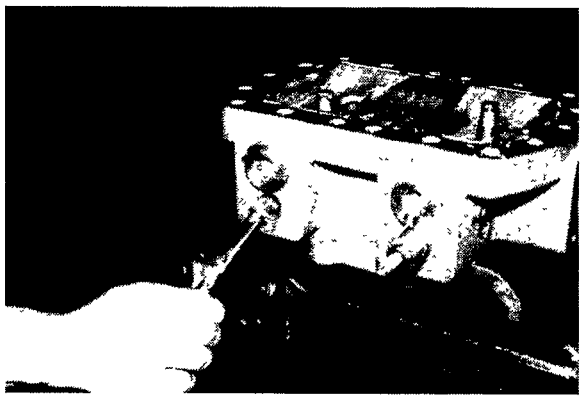
3 2 Table of tools and jigs

The following tools and jigs are required to carry out the disassembly and reassembly of the hydraulic pump

Tool/Jig	Q'ty	Comments
Allen key	1 each	Nominal 3, 4, 5, 8, 10, 17
Spanner (or monkey wrench)	1 each	Nominal 10, 13, 17, 22, 24, 27 and 29
Round nose pliers	1	Nominal 125
Plastic hammer	1	Medium
Ring pliers	1	110 size
Phillip's screwdriver	1	
Heater	1 each	For input shaft and subsidiary shaft
Burner	1	
Rubber disk assembly	2	Fig 1 To prevent dropping cylinder block
Round bar or pipe	1	Fig 2
L-shaped bar	1	Fig 3
Washing fluid	Small amount	Spray type is recommended
Liquid packing	Small amount	Three Bond #1215
Adhesive	Small amount	Loctite #572
Adhesive	Small amount	Three Bond #1305
Grease	Small amount	
Vernier calipers	1	Approx 200mm

Control all tightening torques with a torque wrench when assembling the pump in a workshop Use a torque wrench, when working on the pump on site.

Remove the spring seats



No 2-18

Remove the spools

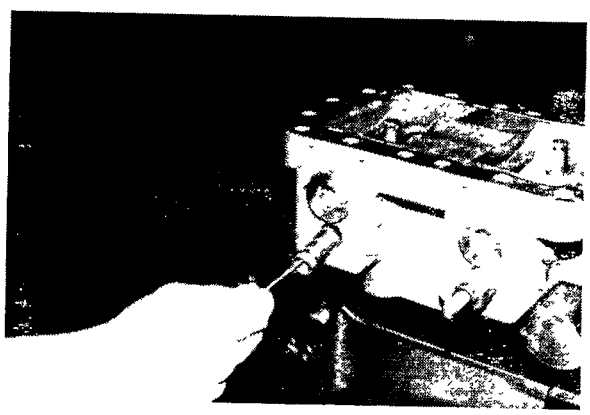
⚠ Take care not to scratch any surfaces

No 2-19

Remove the bushings.

[Use a 2~3mm diameter rod, bent at the end, to remove the bushings]

⚠ Take care not to scratch any surfaces



No 2-20

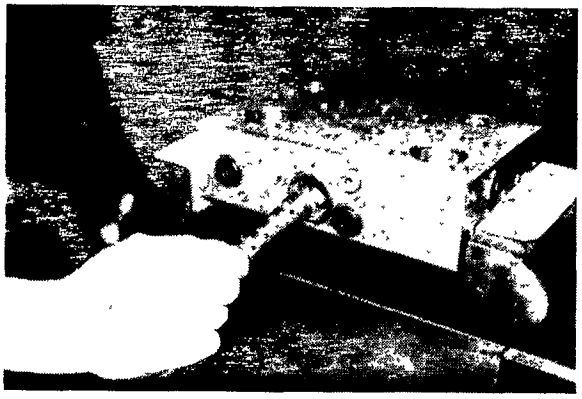
Remove the distance piece and the spool

No 3-7

Remove the bushings.

[Use a 2~3mm diameter rod, bent at the end, to remove the bushings]

⚠ Take care not to scratch any surfaces

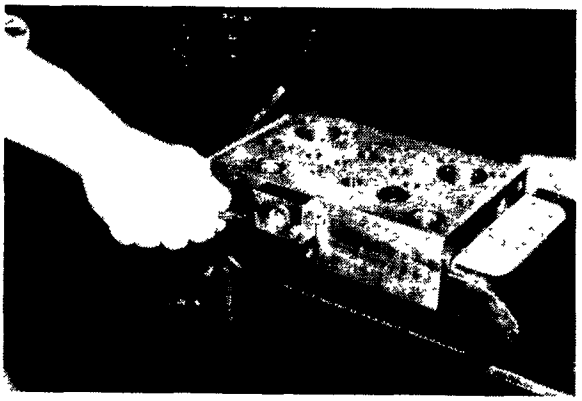


No.3-8

[Disassembly of the selector spool]

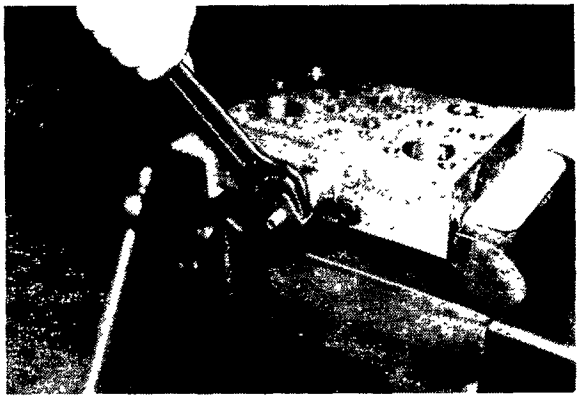
Remove the two hexagonal socket head cap bolts (M6 × 25) and remove the cover

[5mm A/F Allen key]



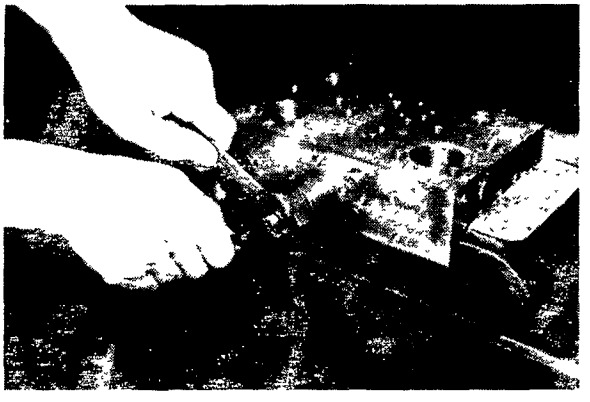
No 3-9

Mount the guide
[27mm A/F spanner
Tightening torque.]



No 3-5

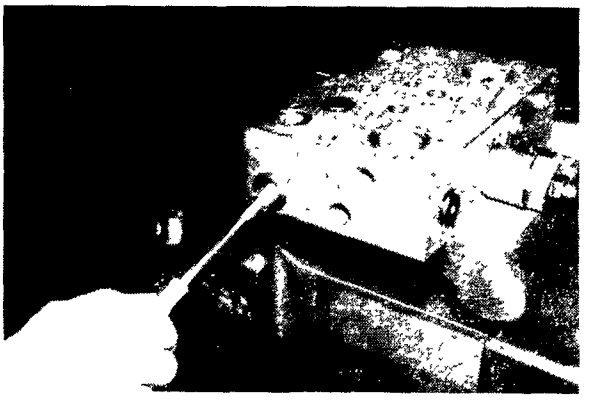
Tighten the nut to fasten the guide in place while preventing the adjusting screw from turning with an Allen key
[Adjusting screw
5mm A/F Allen key]
[Nut 17mm A/F spanner]



o 3-4

[Mounting the nipple]

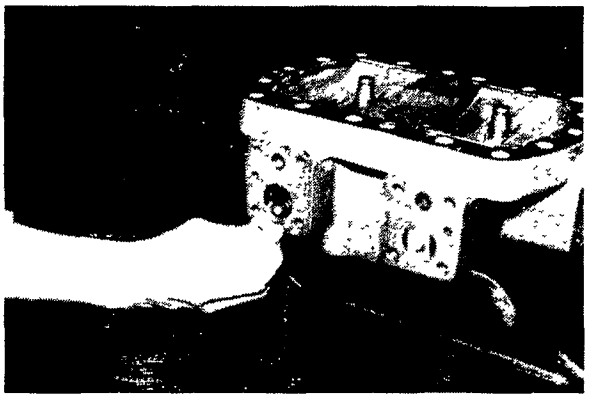
Insert the filter into the bottom of the hole with a straight-headed screw-driver
[Tightening torque. 1kgf m
(7.2ft lb)]



No 4-25

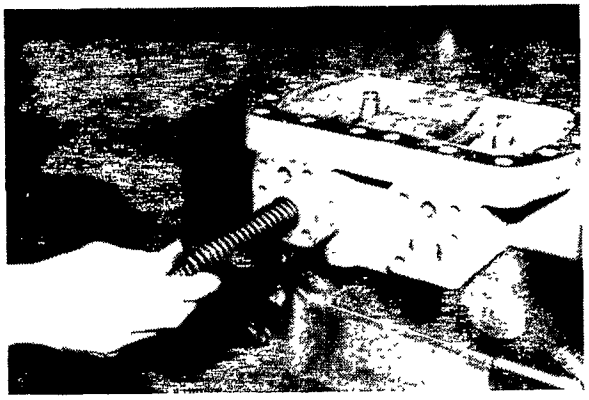
Put the shims on the rods

Make sure that the total shim thickness is the same as it was on assembly The high-pressure setting will differ if the thickness is different



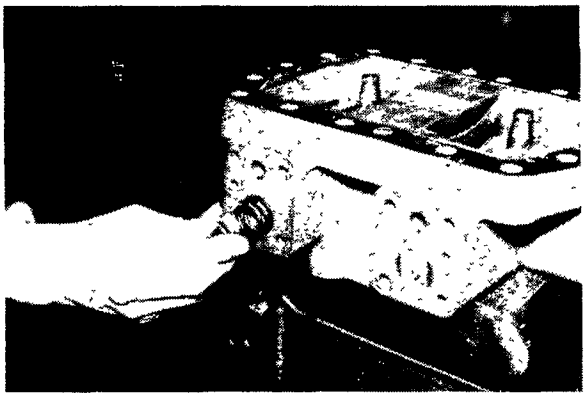
No 2-10

Insert the large springs

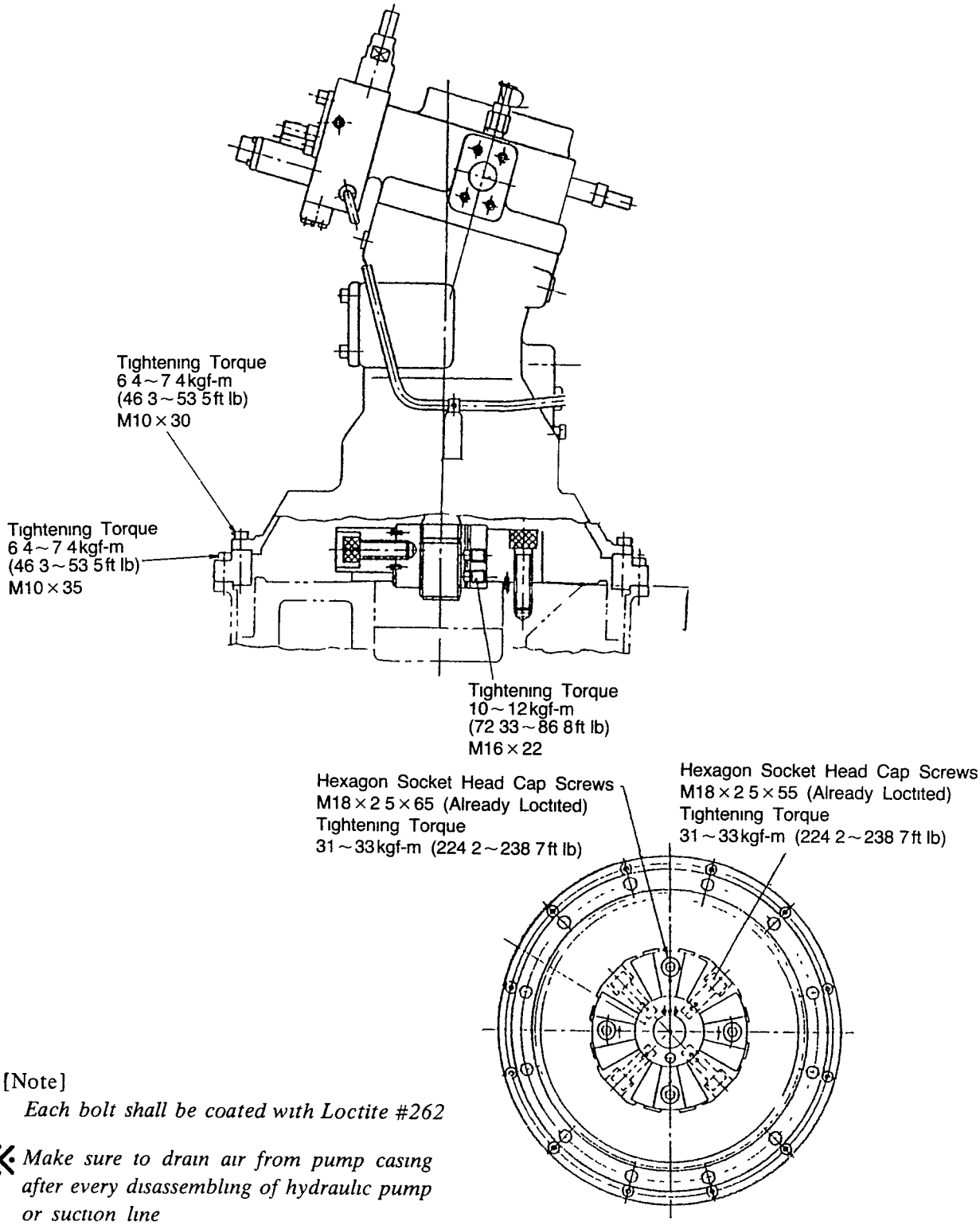


No 2-9

Insert the spring seats



No 2-8

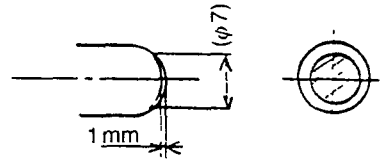


[Note]

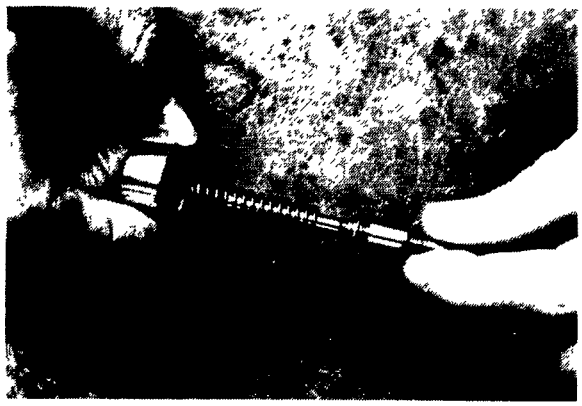
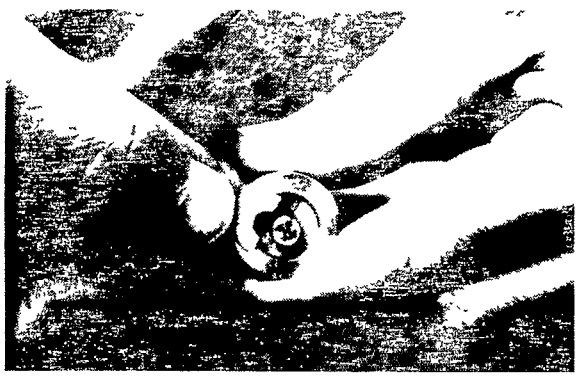
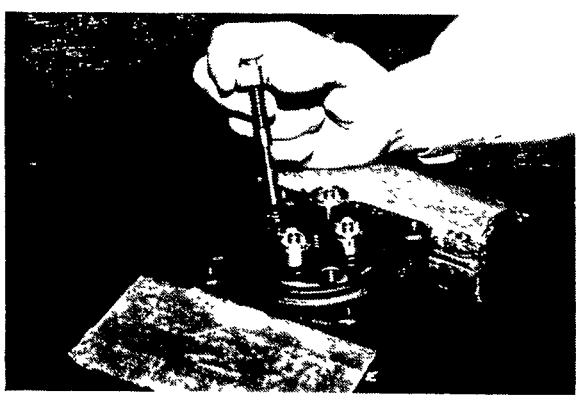
Each bolt shall be coated with Loctite #262

※ *Make sure to drain air from pump casing after every disassembling of hydraulic pump or suction line*

7 2 Maintenance Standards

Item	Standard	Comments
Leakage	Replace if the leakage exceeds 1000cc/min with the handle in the neutral position or 2000cc/min during operation	Conditions Primary pressure 30kgf/cm^2 Oil viscosity 23CSt
Spool	Replace when the sliding contact faces are worn 10μm or more then the non-sliding contact faces	The conditions are approximately the same as for the leakage, above
Push rod	 Replace if the tip is worn 1mm or more	
Play in the operating controls	Replace the parts if the wear in the pin, shaft and joint lead to play of more than 2mm	Tighten all parts if the play is due to looseness of the bolts etc
Safety of operation	Refer to "Troubleshooting" later in these procedures if abnormal noises, hunting or drops in primary pressure are experienced during operation Replace the valve if the problem cannot be solved	

Note 1) It is recommended that all O-rings and other seals be replaced whenever the valve is disassembled However, they may be used again if they are undamaged
2) The seal washer ⑫① must be replaced each time the hexagonal socket head bolt ⑫⑤ is loosened

No	Operation	Cautions
4	Mount the washers ㉑⑦, springs ㉔① and spring seats ㉑⑥ in order onto the spools ㉑⓪ 	
5	Stand each spool ㉑⓪ on a level work bench, push the spring seat ㉑⑥ up and insert the two semicircular washers 1㉑⑤ into the top of the spring seat such that they do not overlap 	Do not pull down the spring seat by more than 6mm
6	Mount the return springs [illegible] into the casing Mount the pressure reduction assembly into the casing 	Assemble in the same positions as before disassembly

CONTROL VALVE CONTENTS

Parts list (Swing side valve section)

Item	Part Name	Q'ty	Item	Part Name	Q'ty	Item	Part Name	Q'ty
1	Valve housing	1	20	Cap (L)	1	39	Plug	2
2	Spool	1	21	Cap (S)	1	40	Sleeve	1
3	Spool (Travel)	1	22	Spring	1	41	Plug	1
4	Spool (Boom II)	1	23	Socket head bolt	14	42	O-ring	5
5	Spool (Swing)	1	24	Poppet	1	43	Poppet	2
6	Spool (Arm I)	1	25	Blank		44	Spring	2
7	Poppet	1	26	Plug	1	45	Plug	3
8	Poppet	1	27	O-ring	1	46	Plug	1
9	O-ring	1	28	Plug	1	47	O-ring	1
10	Back-up ring	1	29	O-ring	1	48	Plug assembly	2
11	Plug	1	30	Poppet	1	49	O-ring	1
12	Spring	1	31	Spring	1	50	Relief valve	3
13	Piston	1	32	Spacer	1	51	Relief valve	2
14	Piston	1	33	O-ring	1	52	Low pressure relief valve	1
15	Plug assembly	1	34	Plug	1	53	Plug	6
16	Spring seat	8	35	Plug	1			
17	Spring	3	36	Spring	1			
18	Spool end	4	37	Cap	1			
19	O-ring	9	38	Cap	1			

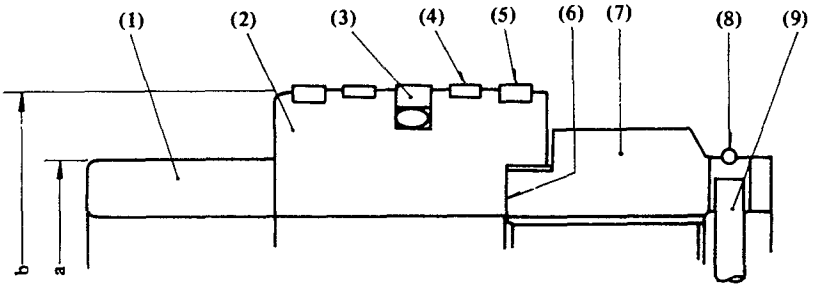
Table 1 (use with figure 3)

5 Troubleshooting

5 1 Control valve overall

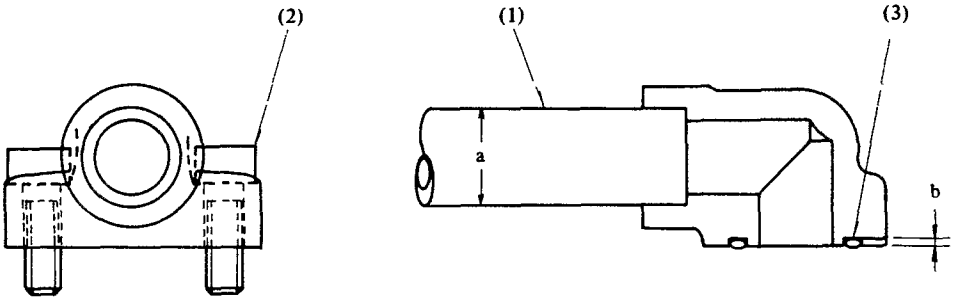
Symptoms	Possible causes	Remedial measures
A spool is sticking	1 The oil temperature is abnormally high	Remove the portion of the piping where resistance is restricting the flow of oil
	2 The hydraulic oil is dirty	Clean out the circuit when the hydraulic oil is replaced
	3. The pipe port joint is overtightened.	Check the tightening torque
	4 The valve housing is strained due to faulty installation	Loosen the installation bolts and check it
	5 Pressure is too high	Install a pressure gauge on the inlet and cylinder circuit and check the pressure
	6 The spool is bent	Replace the valve assembly parts
	7 The return spring is broken	Replace the damaged parts
	8 The spring or the cap is out of alignment	Loosen the cap and center it, then tighten it again
	9 Temperature distribution inside the valve is not uniform	Warm up the entire circuit
Spool doesn't move properly	1 Dirt is clogging up the inside of the valve	Remove the dirt (flush out the valve)
A negative load cannot be held	1 Oil is leaking from the cylinder	Check the cylinder
	2 Oil is bypassing from the valve spool	Replace the valve
	3 Oil is leaking from the port relief valve.	Take the port relief valve out of the valve housing and clean the housing seat and port relief valve seat
The negative load drops when the spool is switched to a position higher than neutral	1 Dirt is digging into the load check valve	Disassemble and clean the check valve
	2 The check valve's poppet or seat is scratched	Replace the poppet or smooth the poppet and seat by rubbing with polishing powder

3.4 Piston Complete



No	Name	Dimension	Replacement standard
(1)	Cushion ring	a	• When local wear exceeding 0.2 mm (0.008") arises
(2)	Piston	b	• ditto
(3)	Seal ring assembly		• To be replaced whenever cylinder is disassembled
(4)	Slide ring		• ditto
(5)	Slide ring		• ditto
(6)	Shim		• ditto
(7)	Piston nut		• ditto
(8)	Snap ring		• ditto
(9)	Pin		• ditto

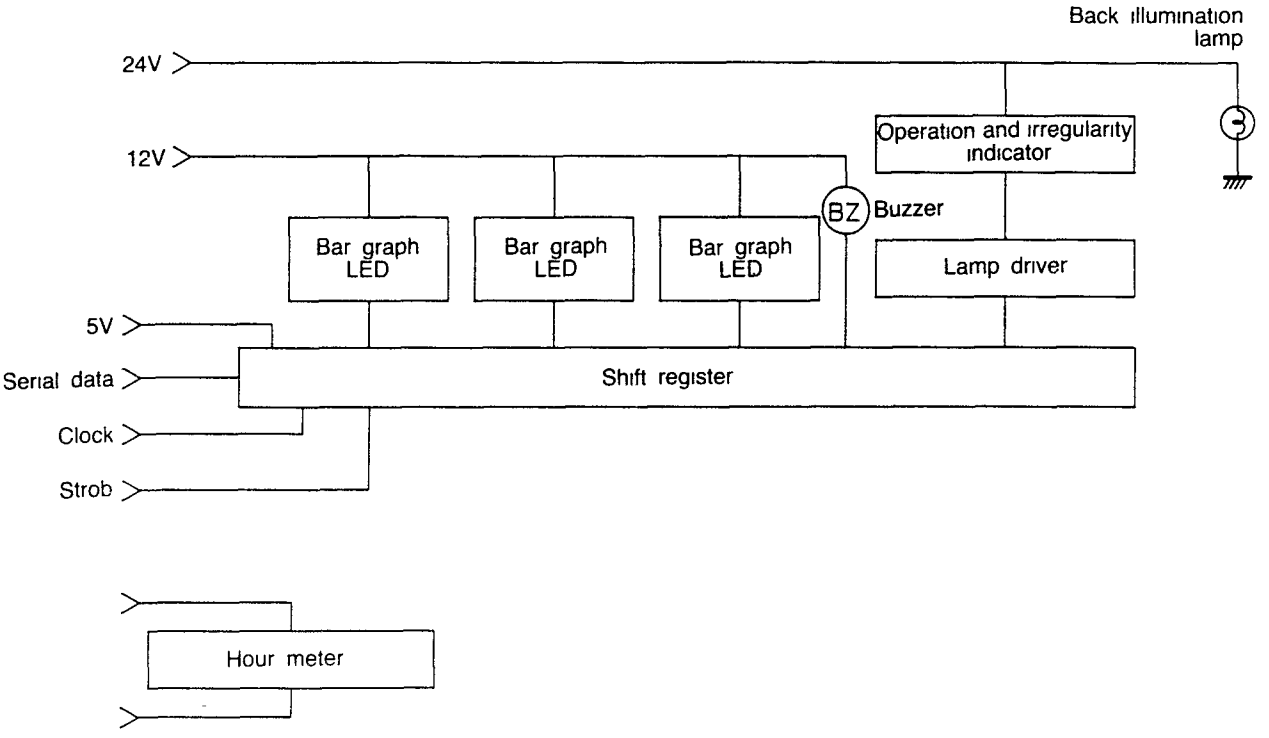
3.5 Piping Complete

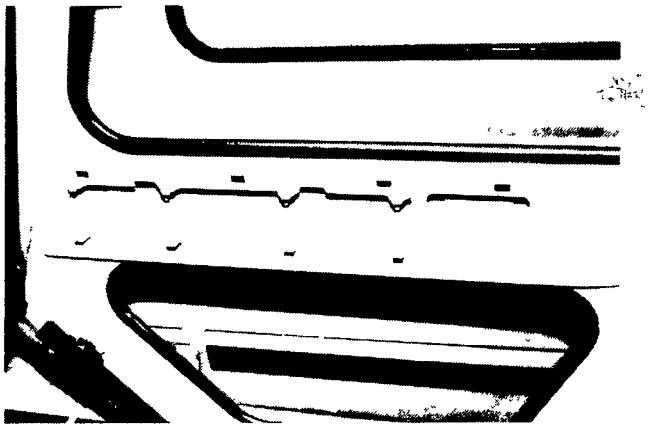


No	Name	Dimension	Replacement standard
(1)	Pipe	a	• When local hollow exceeding 1 arises
		b	• When corrosion or scratches arise in the O-ring groove
(2)	Bolt		• When corrosion arises on threaded portion
(3)	O-ring		• To be replaced whenever removed

Note Corrosion may arise inside the pipe
Remove rust and apply flushing

Monitor display block diagram



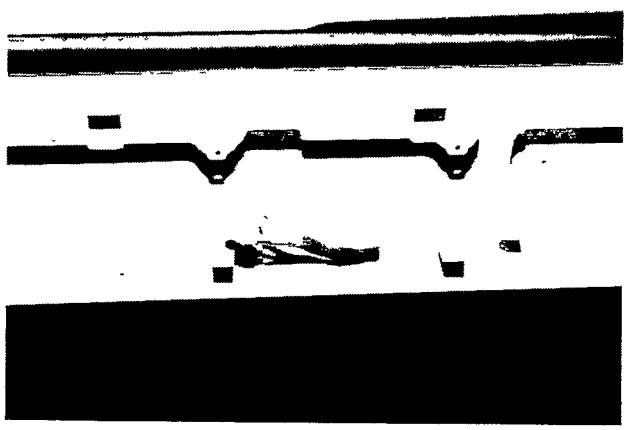


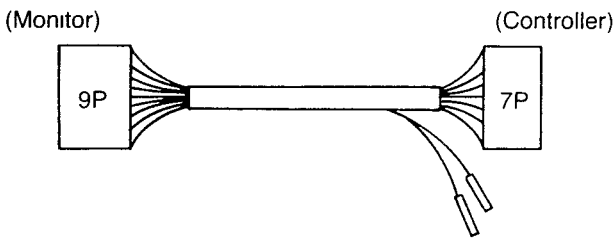
4 3 Procedure for installing the monitor

1) The place where the monitor is to be mounted is right-hand front of the cab

2) Connect the monitor with the controller with the wiring

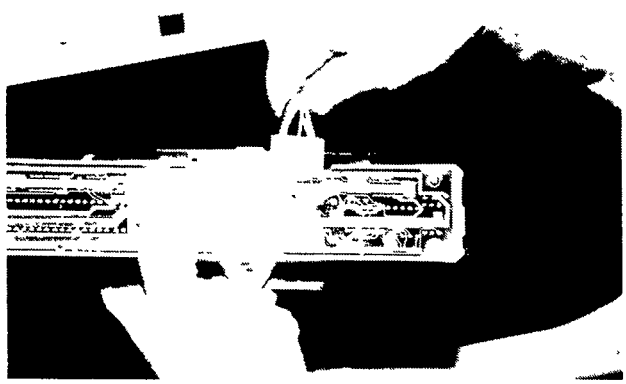
ⓐ A hole is provided in the backward place where the monitor is to be installed as shown in the right-hand photo Remove the rubber cap from there and have the wiring passed through the hole



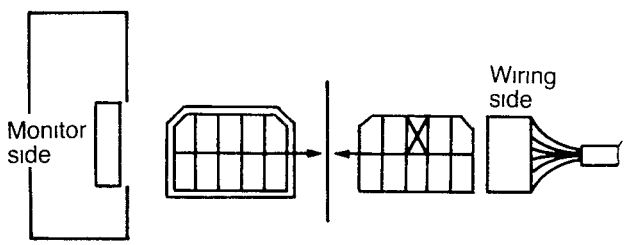


See the above figure for wiring facing

3) Bring the connector to the monitor installation place



4) Connect the monitor with the wiring connector, watching for the direction (only one direction works)



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