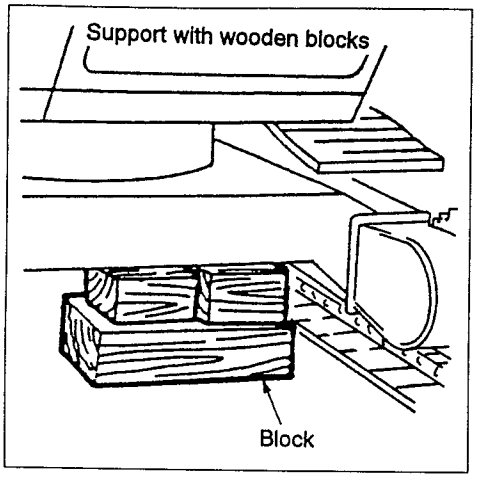
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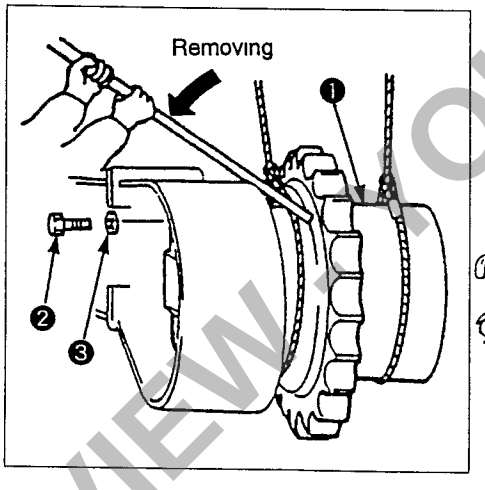
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5 1, LOWER MECHANISM

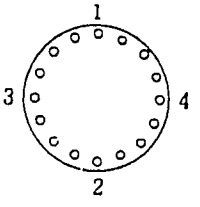
Removal and Installation





Bolt Tightening Order

• After tightening the 4 bolts in order as in the figure, tighten the other bolts.



Removal Procedures

1 Remove the track shoe (Refer to the track shoe removal.)
2 Raise one side of the lower frame to about 8" (20cm) (Raise high enough to permit drive sprocket removal)
3 Put wooden blocks underneath the lower frame
4 Stop the engine and operate the control lever to relieve pressure in the hydraulic system (Refer to 05 Precautions for hydraulic oil pressure release)
5 Remove the motor cover
6 Attach identification tag to the travel motor hose for reconnection purposes
7 Disconnect the hoses and install blind caps or plugs to prevent dust
8 Fasten sling to travel equipment Note) Lift only enough that the wire rope becomes tight
9 Remove the travel equipment installation bolts ❷
10 Use a steel bar to remove the travel equipment

Installation Procedures

1 Lift the travel equipment and align it to the installation position of the frame (Be careful of installation angle)
2 Apply Loctite #262 to the thread of travel equipment installation bolts ❷ and tighten temporarily
3 Tighten the bolts alternately to the standard torque such that the tightening force is even on all bolts
4 Connect the hoses to the travel motor
5 Check the gear oil level of the reduction gear and refill if insufficient
6 Bleed air from the travel motor (Fill motor with hydraulic oil)
7 Remove the wooden blocks
8. Place the lower frame on the track shoe
9 Install the track shoe (Refer to track shoe installation)
10 Check for oil leakage Repair if leakage is found
11 Install the motor cover

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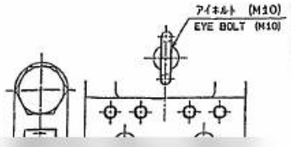
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6. Outline, Structural and Development Elevation Diagrams

	ポート名 PORT NAME	ポートサイズ PORT SIZE
$A_{1,2}$	吐出ポート DELIVERY PORT	SAE6000psi 3/4"
B_1	吸入ポート SUCTION PORT	SAE2500psi 2 1/2"
D_P	ドレンポート DRAIN PORT	G 3/4-20
$P_{11,2}$	パイロットポート PILOT PORT	G 1/4-15
$P_{ol,2}$	油流遮断カットポート Qm CUT PORT	G 1/4-15
P_{SV}	サーボアシストポート SERVO ASSIST PORT	G 1/4-15

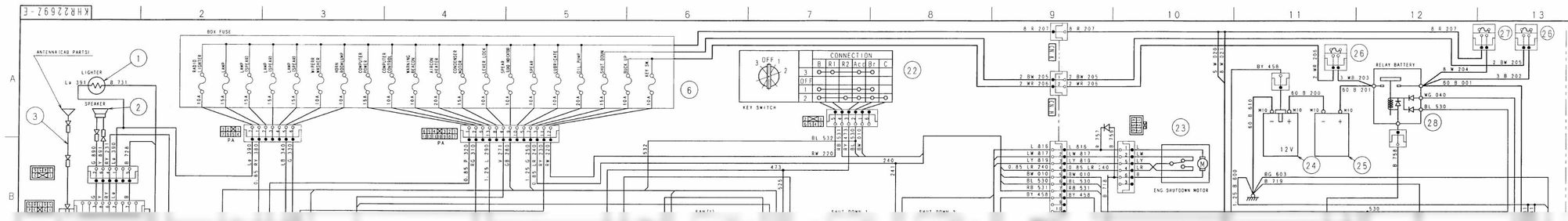




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PART NO.	DESCRIPTION	SYM	MATERIAL GROUP	QTY	TOTAL WT.(kg)	STANDARD NO.	REMARKS
KHR12402E-A	LIGHTER:CIGAR	1		1	-		SPIKE
KHR09611Y-A	SPEAKER	2		1	-		SANYO DENKI
KHR09008E-A	CORD:ANTENNA	3		1	-		HITACHI DENSO
KHR15271E-A	RADIO:SET	4		1	-		SANYO DENKI
KHR17911X-B	CONTROLLER	5		1	-		STANLEY
KHR15866E-B	BOX:FUSE	6		1	-		MIZUNO JIDOUSHA
KHR17263-B	PANEL:SWITCH(LH)	7		1	-		NIPPON SEIKI
KHR17271X-B	PANEL:SWITCH(RH)	8		1	-		NIPPON SEIKI
KHN14431Y-A	SWITCH:LIMIT	9		1	-		TAKARAJUSHI [EA07]
KHN14321Y-A	SWITCH:LIMIT	10		1	-		TAKARAJUSHI [EA07]
KHJ0740Y-B	KNOB(SWITCH)	11		1	-		NISHIYAMA
KHR17393-B	PANEL:SWITCH(RH)	12		1	-		NIPPON SEIKI
KHR16086E-A	SWITCH:SPL	13		1	-		TOKOE SHOUKAI [EC05]
	KNOB(SWITCH)						NISHIYAMA

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1st Edition March, 1994	1/7

Distribution Date

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1, GENERAL
(Material for special course)

(Refer to Srevice Text)

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02, SAFETY

Areas marked with ⚠ are especially important regarding safety. Read and understand well before beginning work.

1 When doing servicing work, first read the data (Operator s Manual Service Text) and understand the contents well before beginning work

2 When assembling or disassembling, take sufficient safety measures to prevent accidents such as falling loads becoming pinned, fire, etc (When doing servicing underneath the machine, block the machine with blocking, etc to prevent getting pinned by the machine

3 When suspending loads with a crane, a licensed operator should do the work
① The crane operator and workman who does the rigging should be licensed to do so
② Rigging must be inspected

4 When conducting inspection or servicing, wear clothing suitable for the job and also wear protective gear according to the nature of the work
(Safety shoes, helmet, safety glasses gloves, ear plugs, dust mask etc)

5 Pay attention Keep a clean, orderly work area to prevent slips or falls

6 When conducting inspection or servicing inside provide proper ventilation

7 Be prepared for any emergencies and take adequate fire-preventative measures

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0 7, NUMERICAL VALUE CONVERSION TABLE

TEMPERATURE

FAHRENHEIT TO CENTIGRADE

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
–60	–51 1	–2	–18 9	56	13 3	114	45 6	172	77 8	230	110 0	288	142 2	346	174 4
–58	–50	0	–17 8	58	14 4	116	46.7	174	78 9	232	111 1	290	143 3	348	175 6
–56	–48 9	2	–16 7	60	15 6	118	47 8	176	80 0	234	112 2	292	144 4	350	176 7
–54	–47 8	4	–15 6	62	16 7	120	48 9	178	81 1	236	113 3	294	145 6	352	177 8
–52	–46 7	6	–14 4	64	17 8	122	50 0	180	82 2	238	114 4	296	146 7	354	178 9
–50	–45 6	8	–13 3	66	18 9	124	51 1	182	83 3	240	115 6	298	147 8	356	180 0
–48	–44 4	10	–12 2	68	20 0	126	52 2	184	84 4	242	116 7	300	148 9	358	181 1
–46	–43 3	12	–11 1	70	21 1	128	53 3	186	85 6	244	117 8	302	150 0	360	182 2
–44	–42 2	14	–10 0	72	22 2	130	54 4	188	86 7	246	118 9	304	151 1	362	183 3
–42	–41 1	16	–8 9	74	23 3	132	55 6	190	87 8	248	120 0	306	152 2	364	184 4
–40	–40 0	18	–7.8	76	24 9	134	56 7	192	88 9	250	121 1	308	153 3	366	185 6
–38	–38 9	20	–6 7	78	25 6	136	57 8	194	90 0	252	122 2	310	154 4	368	186 7
–36	–37 8	22	–5 6	80	26 7	138	58 9	196	91 1	254	123 3	312	155 6	370	187 8
–34	–36 7	24	–4 4	82	27 8	140	60 0	198	92 2	256	124 4	314	156 7	372	188 9
–32	–35 6	26	–3 3	84	28 9	142	61 1	200	93 3	258	125 6	316	157 8	374	190 0
–30	–34 4	28	–2 2	86	30 0	144	62 2	202	94 4	260	126 7	318	158 9	376	191 1
–28	–33 3	30	–1 1	88	31 1	146	63 3	204	95 6	262	127 8	320	160 0	378	192 2
–26	–32 2	32	–0	90	32 2	148	64 4	206	96 7	264	128 9	322	161 1	380	193 3
–24	–31 1	34	1 1	92	33 3	150	65 6	208	97 8	266	130 0	324	162 2	382	194 4
–22	–30 0	36	2 2	94	34 4	152	66 7	210	98 9	268	131 1	326	163 3	384	195 6
–20	–28 9	38	3 3	96	35 6	154	67 8	212	100 0	270	132 2	328	164 4	386	196 7
–18	–27 8	40	4 4	98	36 7	156	68 9	214	101 1	272	133 3	330	165 6	388	197 8
–16	–26 7	42	5 6	100	37 8	158	70 0	216	102 2	274	134 4	332	166 7	390	198 9
–14	–25 6	44	6 7	102	38 9	160	71 1	218	103 3	276	135 6	334	167 8	392	200 0
–12	–24 4	46	7 8	104	40 0	162	72 2	220	104 4	278	136 7	336	168 9	400	204 4
–10	–23 3	48	8 9	106	41 1	164	73 3	222	105 6	280	137 8	338	170 0	410	210 0
–8	–22 2	50	10 0	108	42 2	166	74 4	224	106 7	282	138 9	340	171 1	420	215 6
–6	–21 1	52	11 1	110	43 3	168	75 6	226	107 8	284	140 0	342	172 2	430	221 1
–4	–20 0	54	12 2	112	44 4	170	76 7	228	108 9	286	141 1	344	173 3	440	226 7

CENTIGRADE TO FAHRENHEIT

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
–50	–58 0	–18	–0 4	14	57 2	46	114 8	78	172 4	110	230 0	142	287 6	174	345 2
–49	–56 2	–17	1 4	15	59 0	47	116 6	79	174 2	111	231 8	143	289 4	175	347 0
–48	–54 4	–16	3 2	16	60 8	48	118 4	80	176 0	112	233 6	144	291 2	176	348 8
–47	–52 6	–15	5 0	17	62 6	49	120 2	81	177 8	113	235 4	145	293 0	177	350 6
–46	–50 8	–14	6 8	18	64 4	50	122 0	82	179 6	114	237 2	146	294 8	178	352 4
–45	–49 0	–13	8 6	19	66 2	51	123 8	83	181 4	115	239 0	147	296 6	179	354 2
–44	–47 2	–12	10 4	20	68 0	52	125 6	84	183 2	116	240 8	148	298 4	180	356 0
–43	–45 4	–11	12 2	21	69 8	53	127 4	85	185 0	117	242 6	149	300 2	181	357 8
–42	–43 6	–10	14 0	22	71 6	54	129 2	86	186 8	118	244 4	150	302 0	182	359 6
–41	–41 8	–9	15 8	23	73 4	55	131 0	87	188 6	119	246 2	151	303 8	183	361 4
–40	–40 0	–8	17 6	24	75 2	56	132 8	88	190 4	120	248 0	152	305 6	184	363 2
–39	–38 2	–7	19 4	25	77 0	57	134 6	89	192 2	121	249 8	153	307 4	185	365 0
–38	–36 4	–6	21 2	26	78 8	58	136 4	90	194 0	122	251 6	154	309 2	186	366 8
–37	–34 6	–5	23 0	27	80 6	59	138 2	91	195 8	123	253 4	155	311 0	187	368 6
–36	–32 8	–4	24 8	28	82 4	60	140 0	92	197 6	124	255.2	156	312 8	188	370 4
–35	–31 0	–3	26 6	29	84 2	61	141 8	93	199 4	125	257 0	157	314 6	189	372 4
–34	–29 2	–2	28 4	30	86 0	62	143 6	94	201 2	126	258 8	158	316 4	190	374 0
–33	–27 4	–1	30 2	31	87 8	63	145 4	95	203 0	127	260 6	159	318 2	191	375 8
–32	–25 6	0	32 0	32	89 6	64	147 2	96	204 8	128	262 4	160	320 0	192	377 6
–31	–23 8	1	33 8	33	91 4	65	149 0	97	206 6	129	264 2	161	321 8	193	379 4
–30	–22 0	2	35 6	34	93 2	66	150 8	98	208 4	130	266 0	162	323 6	194	381 2
–29	–20 2	3	37 4	35	95 0	67	152 6	99	210 2	131	267 8	163	325 4	195	383 0
–28	–18 4	4	39 2	36	96 8	68	154 4	100	212 0	132	269 6	164	327 2	196	384 8
–27	–16 6	5	41 0	37	98 6	69	156 2	101	213 8	133	271 4	165	329 0	197	386 6
–26	–14 8	6	42 8	38	100 4	70	158 0	102	215 6	134	273 2	166	330 8	198	388 4
–25	–13 0	7	44 6	39	102 2	71	159 8	103	217 4	135	275 0	167	332 6	199	390 2
–24	–11 2	8	46 4	40	104 0	72	161 6	104	218 2	136	276 8	168	334 4	200	392 0
–23	–9 4	9	48 2	41	105 8	73	163 4	105	221 0	137	278 6	169	336 4	210	410 0
–22	–7 6	10	50 0	42	107 6	74	165 2	106	222 8	138	280 4	170	338 0	220	428 0
–21	–5 8	11	51 8	43	109 4	75	167 0	107	224 6	139	282 2	171	339 8	230	446 0
–20	–4 4	12	53 6	44	111 2	76	168 8	108	226 4	140	284 0	172	341 6	240	464 0
–19	–2 2	13	55 4	45	113 0	77	170 6	109	228 2	141	285 8	173	343 4	250	482 0

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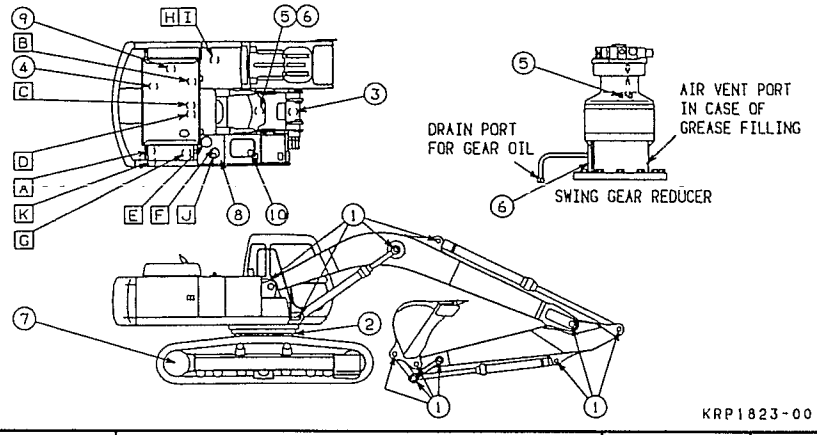
3. 2800 LUBRICATION AND ELEMENT REPLACEMENT

Ref No	Description		No Points	Specification	Interval (hr) 50	250	500	1000	3000	5000
①	Front Attachment Pin		16	E P Grease No 2	○					
②	Turntable Bearing		3			○				
③	Swing Ring Gear		17kg, 37lb				○			
④	Engine Oil Pan		25ℓ , 6 6gal	Engine Oil			◎			
⑤	Swing Gear Reducer		5ℓ , 1 3gal	Gear Oil		△		◎		
⑥			1ℓ , 0 3gal	E P Grease No 2					○	
⑦	Travel Gear Reducer		4 7ℓ ×2, 1 2gal ×2	Gear Oil		△		◎		
⑧	Hydraulic Sump Tank		203ℓ , 53 6gal	Hydraulic Oil						◎
⑨	Engine Radiator		25 5ℓ , 6 7gal	Water with Long Life Coolant	Every 2 years					
⑩	Fuel Tank		310ℓ , 81 9gal	Light Oil	When required					
A	Pilot Line Filter		1	Element	△			◎		
B	Fuel Filter		1	Element			◎			
C	Engine Oil Filter	By-pass	1	Element			◎			
D		Full-flow	1	Element			◎			
E	Return Filter		1	Element	△			◎		
F	Suction Filter		1	Element				□		◎
G	Drain Filter		1	Element	△			◎		
H	Air Cleaner	Outer	1	Element		□		◎		
I		Inner	1	Element		□		◎		
J	Air Breather		1	Element				◎		
K	Nephron Filter		1	Element				◎		

○ Lubricate grease
△ Change initially
◎ Change oil or replace element
□ Clean

Recommended grease and oil specifications are as follows
E P Grease Lithium Grease No 2
Engine Oil API CD SAE 15W – 40
Gear Oil API GL-4 SAE 90
Hydraulic Oil ISO VG 32

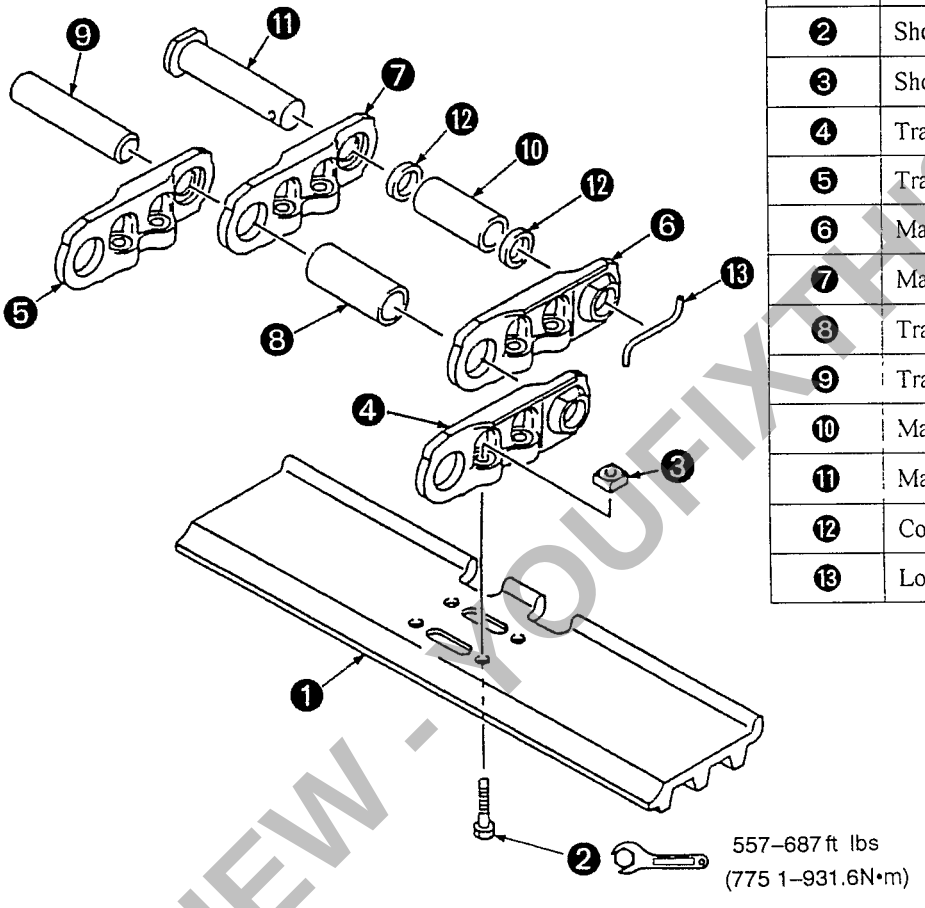
Notes 1 Attachment should be lubricated daily when used in dusty environments or under water
2 Refer to recommended oil specifications in detail shown in the operator's manual
3 Refer to the engine instruction manual
4 Interval - Hours on this chart are based on SAE J752B asfollows
50 (or weekly) * 1000 (or 6 months) *
250 (or monthly) * 3000 (or 1 5 years) *
500 (or 3 months) * 5000 (or 2 5 years) *
*whichever occurs first
5 Remove the air deflation plug in lubricating grease for swing gear reducer
Refer to the operator's manual for details



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5 1, LOWER MECHANISM

⑧ TRACK SHOE

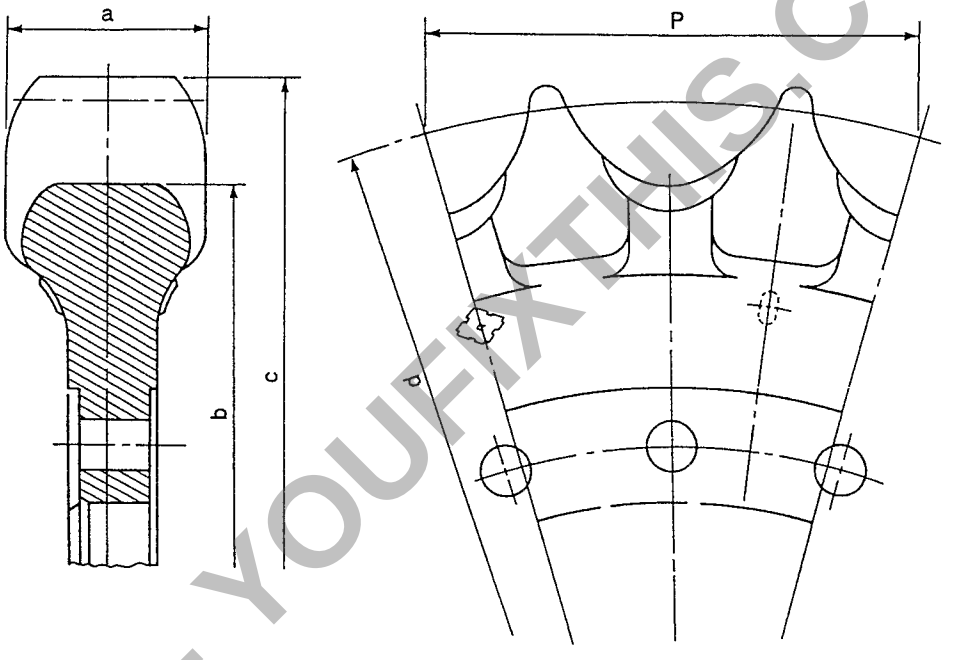


Symbol	Part Name
❶	Shoe plate
❷	Shoe bolt
❸	Shoe nut
❹	Track link (Right)
❺	Track link (Left)
❻	Master link (Right)
❼	Master link (Left)
❽	Track bushing
❾	Track pin
❿	Master bushing
⓫	Master pin
⓬	Collar
⓭	Locking pin

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1 Drive Sprocket



* Refer to Gauge Table for measurement gauges to be used
* Use Maintenance Standard Values Table for decisions

Part name	Code	Measurement dimensions (inch)	Decision	Measure to be taken	Part name	Code	Measurement dimensions (inch)	Decision	Measure to be taken
Drive sprocket	a		good • no good	Buildup or replace				good • no good	Buildup or replace
	b	o	good • no good					good • no good	
	c		good • no good					good • no good	
	d	o	good • no good					good • no good	
	P		good • no good					good • no good	
			good • no good					good • no good	

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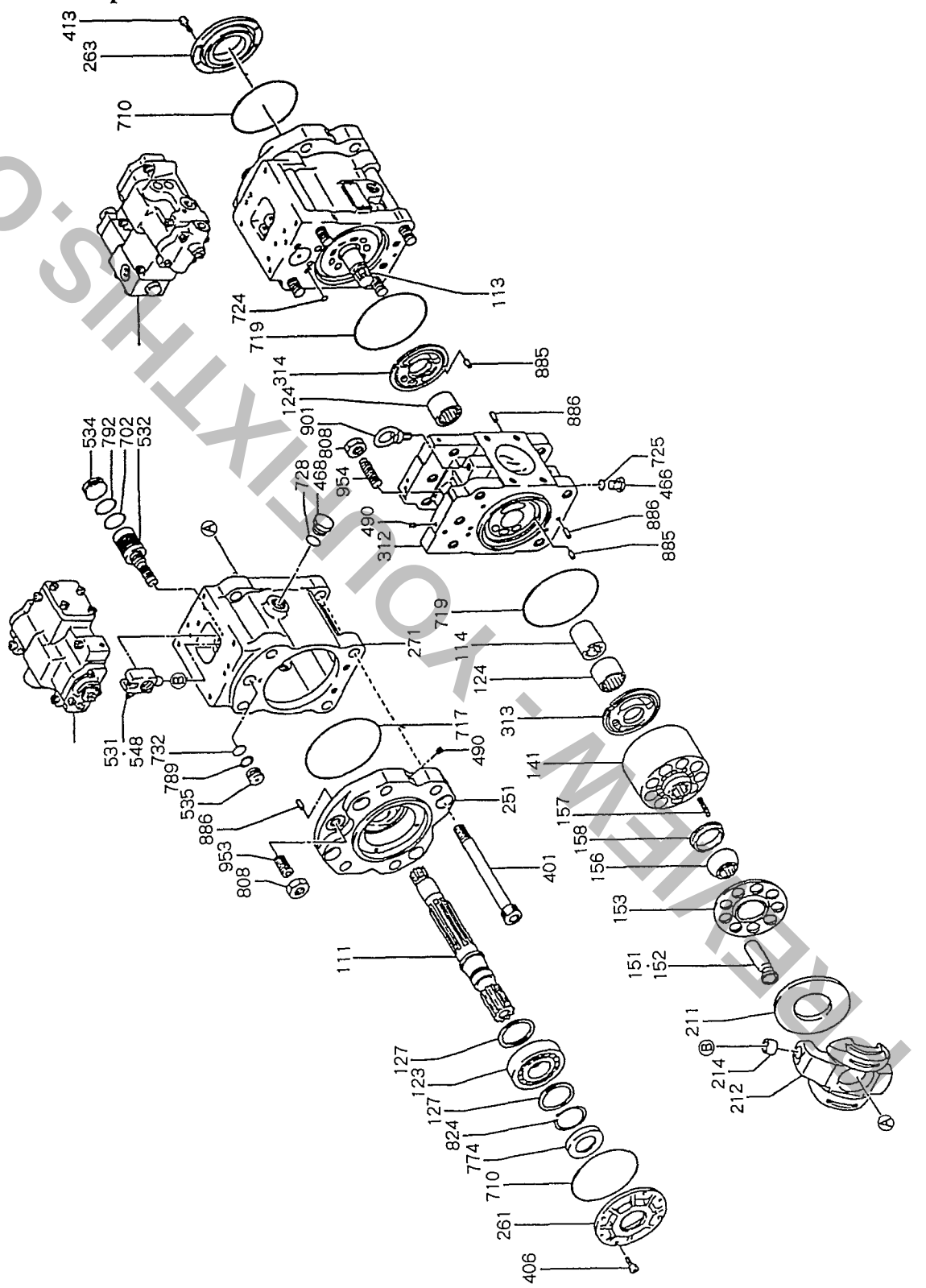
1. Specifications (Reference)

Model		2800	3400
Displacement		5 92 × 2 in³/rev (97 × 2 cm³/rev)	5 89 × 2 in³/rev (96 5 × 2 cm³/rev)
Working pressure kgf/cm²	Set	4549 6 psi (320 kgf/cm²)	4549 6 psi (320 kgf/cm²)
	Maximum	4976 1 psi (350 kgf/cm²) travel	4976 1 psi (350 kgf/cm²) travel
Speed		2070 min ⁻¹	2200 min ⁻¹
Maximum flow		55 7 gpm (201 ℓ /min⁻¹)	55 8 gpm (211 ℓ /min ⁻¹)
Minimum flow		13 2 gpm (50 ℓ /min⁻¹)	13 2 gpm (50 ℓ /min⁻¹)
Input power		125 PS	151 PS
Maximum input torque		313 9 ft lbs (43 4 kgf•m)	355 2 ft lbs (49 1 kgf•m)
Hydraulic oil	Type	Wear resistant hydraulic oil	
	Temperature range	-4°F ~+194°F (-20 ℃ ~+95 ℃)	
	Viscosity	10~1,000 cSt (mm²/s)	
	Recommended filter	Return line Nominal 10 μm	
		Suction line 80~150 mesh	
Control function		Summation horsepower control Power shift control Negative flow control Qmax cut control	
Other		With 0 61 in³/rev (10cc/rev) gear pump With electromagnetic reducing valve	

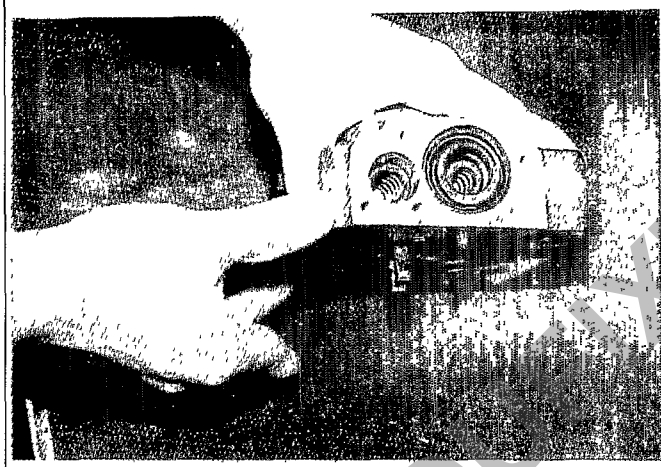
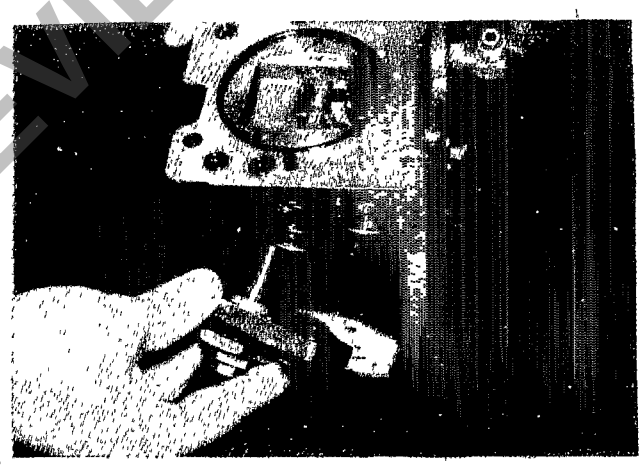
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3-3 Development Elevation



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No	Work Description	Precautions
11	Assemble the spring base (644), pilot spring (646) and adjustment ring (Q) (645) into the pilot hole and assemble the spring base (624), inner spring (626) and outer spring (625) into the compensator hole 	(1) Do not mistake the spring base direction
12	Install the cover (C) (629) which has the adjustment screw (628) (925), adjustment ring (C) (627), lock nut (630), Hexagonal bolt (801) adjustment screw (924) set into it and tighten the hexagonal socket head bolt (438) This completes the reassembly 	

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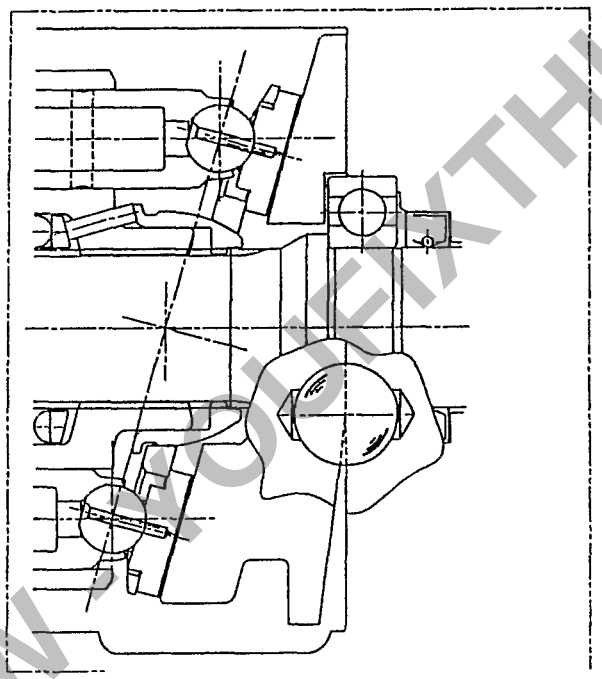
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3-4. 2-Speed Mode Changer

(1) 2-Speed Mode Changer Structure

The swash plate has three surfaces, A through C as illustrated in Fig 9, being assembled in a slant state on the motor case with two steel balls

The 2-speed mode change valve is assembled inside the base plate

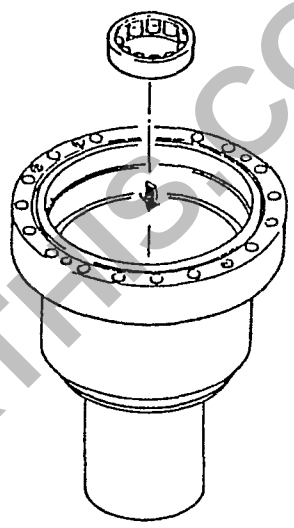
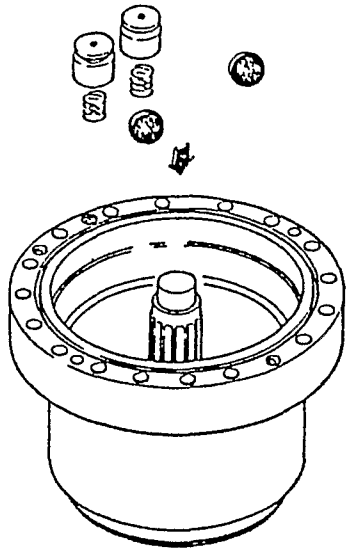


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Fig 9 2-Speed Mode Changer Structure

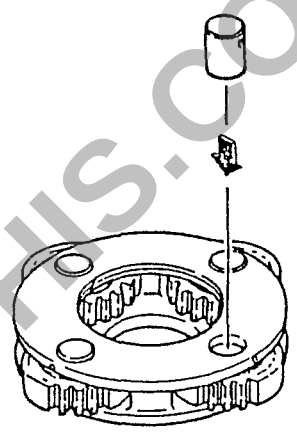
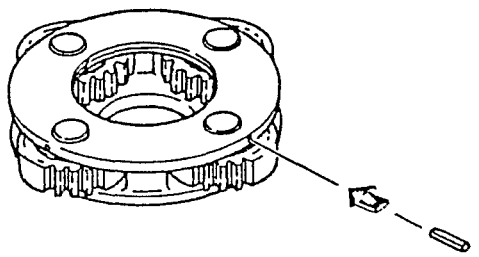
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Assembly procedure	Process Illustration
4 Assemble the ball bearings (12) into the case (1)	
5 Assemble the steel balls (10), spring (40) and piston S/A (11) into the case (1)	

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Assembly Procedures	Process Illustration
c) Align the spring pin hole of gear shaft C (3-4) to the spring pin hole of holder C (3-1) and insert the gear shaft C (3-4) ※ Verify that the planetary gear (3-2) rotates smoothly	
d) Knock in the spring pin (3-8) until it sinks below the circumference of holder B (3-1), and stake four symmetrical positions	

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3. Disassembly

(The numbers marked with ○ refer to those in the structure diagram on page 32)

3-1 Removal of relief assembly

Remove the caps ㊲ with 14mm A/F hexagonal sockets and remove the relief assembly ㉞ from the motor



※ During reassembly, be sure to insert the relief assembly ㉞ into the original position The disassembly procedure for the relief assembly is given below

3-2 Removal of make-up, by-pass valve assemblies

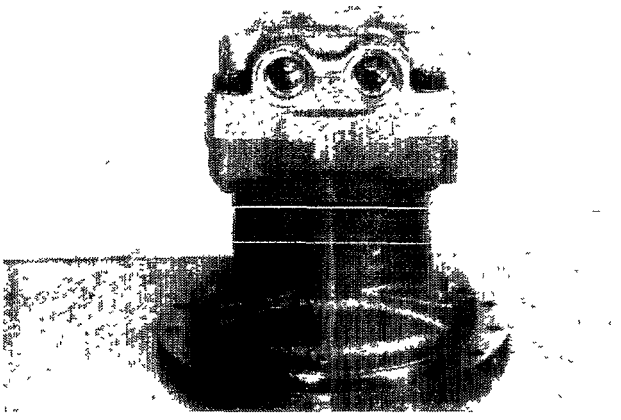
Remove the caps ㉚ with the 14mm A/F hexagonal key and take out the springs ㉛ and checks ㉙ Remove the by-pass valve assembly ㉘ using 10mm A/F hexagonal key



※ Be sure to insert the parts into their original positions during reassembly.

3-3 Alignment marks for motor

It is advisable to make alignment marks on the cover ⑰ and housing ㉕ with white paint, etc to facilitate reassembly



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2-6 Holder assembly mounting

2-6-1 2nd stage Holder assembly mounting

Insert the spur gear 5 ⑭ and thrust plate ⑮ into the holder 2 ⑰ and insert the shaft assembly 2 ⑫

※ Apply gear oil (refer to instruction manual) to the spur gear internal surface and shaft assembly outer surface



Drive in the spring pin ⑯

※ Drive in the pins with the splits facing towards the spur gears 5 ⑭



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Tighten the plate ㊶ with the bolt ㊵ (Hexagonal 14 A/F) which has the washer ㊳ to the valve housing which has the O-ring ㊳ installed

(Torque 28 9 ~ 32 6 ft lbs {39 ~ 44 N•m})

If the plug is disassembled, assemble with the following combinations

Plug (Hexagonal A/F) No	O-ring No	Tightening Torque ft lbs {N•m}
⑫ (22)	⑬	36 2 ~ 43 4 ft lbs {49 ~ 59 N•m}
㉞ (Hexagonal socket 6 A/F)	㉝	25 3 ~ 28 9 ft lbs {34 ~ 39 N•m}
㊼ (19)	㉝	25 3 ~ 28 9 ft lbs {34 ~ 39 N•m}
㊽ (Hexagonal socket 10 A/F)	㊼	65 1 ~ 72 3 ft lbs {88 ~ 98 N•m}
㊲ (31 5) Assembly replacement		57 9 ~ 65 1 ft lbs {78 ~ 88 N•m}

When disassembling the plug ㉟ (Hexagonal socket 5 A/F), wrap seal tape around the plug periphery (leave open one thread from the end and wrap 1 5 ~ 2 times to the right so that the seal tape bites into the thread)

(Torque 5 1 ~ 6 5 ft lbs {6 85 ~ 8 82 N•m})

Recheck for parts not reassembled and tightening

When disassembling back side connected parts, attach the O-rings ⑱ ㊷ ㊶ ㊸ to the bottom of the 5-spool side valve and attach the 4-spool side and 5-spool side with socket head bolts ③

(Torque 123 0 ~ 130 2 ft lbs {170 ~ 180 N•m})

5-2) Assembly 2

Control Valve (R) 4-spool side control valve

(The numbers refer to those in the structure diagram of page 43, 44.)

Assemble the poppet ㉓ and spring ㉒ into the spool ③ After completely degreasing the threaded part (and the spool side) of the plug ⑲ (Hexagonal 22 A/F), which has the O-ring ㉑ and back up ring ⑳ attached, apply adhesive and install it into the spool

(Torque 7 2 ~ 8 7 ft lbs {9 8 ~ 12 N•m})

Assemble the spring seat ⑯ and spring ⑰ to the spool end ③ (Hexagonal 22 A/F) and apply adhesive to the threads and install it into the spool ④ ⑤ ⑥

(Torque 7 2 ~ 8 7 ft lbs {9 8 ~ 12 N•m})

Assemble the spool assembly into the valve housing ① at the same position and direction as before

Assemble the sleeve ㊵ which has the O-ring ㊶ and back up ring ㊷ attached and assemble the poppet ㊴, spring ㊳, spacer assembly ㊺ and attach the O-ring ㊲ and back up ring ㊱ to the plug ㉟ and assemble into the valve housing

Assemble the spool ⑦ into the valve housing and install the spring seat ⑨ and spring ⑧

Tighten the caps ② ⑭ which have O-rings ⑩ ⑱ attached, with socket head bolts ㊼ ㊽ (Hexagonal socket 8 A/F) to the valve housing

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7-3 Disassembly Procedures

1) Preparation

(1) Prepare a work bench large enough to accommodate the parts and which is hard and stable

(2) Prepare the necessary tools

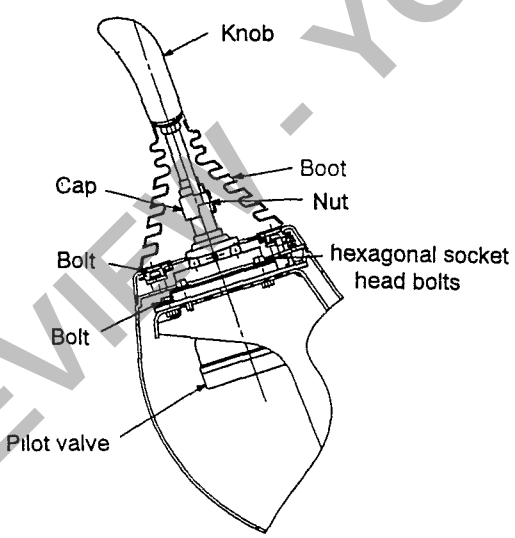
2) Cautions during Disassembly

(1) All the parts of this valve are manufactured to high precision Take care not to bump parts together or to drop them

(2) During assembly, do not hit or force stiff parts This may cause burring or damage to the parts, causing sticking and oil leakage and lead to lower performance Carry out all work on the valve carefully and patiently

(3) Parts may rust due to humidity and dirt if they are left for a length of time in a disassembled or semi-disassembled state Protect the parts from rusting and dust if it is necessary to interrupt work on the valve

3) Disassembly Procedure

No	Work	Cautions
		
1	Remove knob from pilot valve	Be careful of the wiring when removing
2	Remove the boot (cover) from the pilot valve	
3	Remove the lines (Attach tags to the connecting ends of the lines to facilitate reassembly)	

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