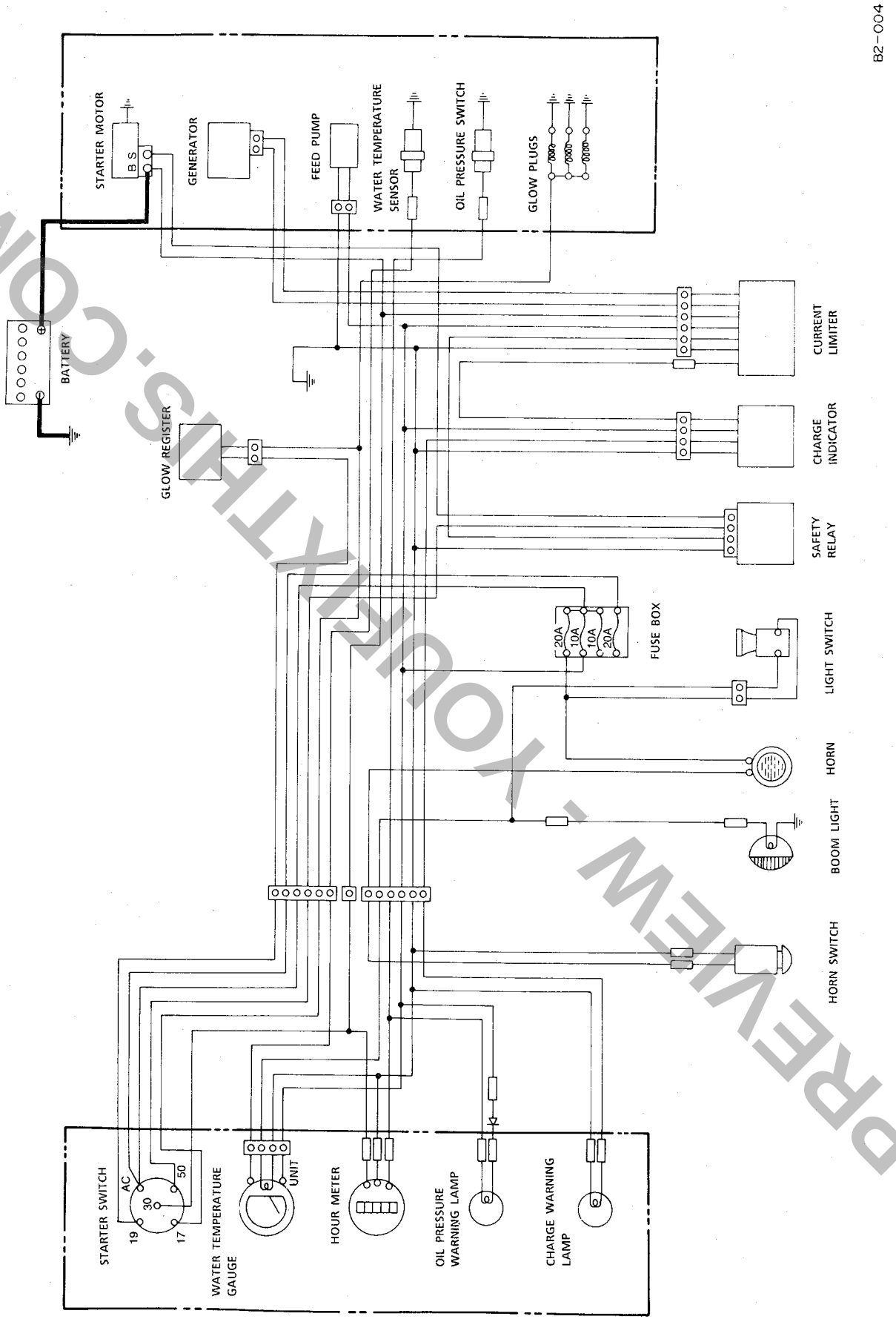
ELECTRICAL WIRING DIAGRAM

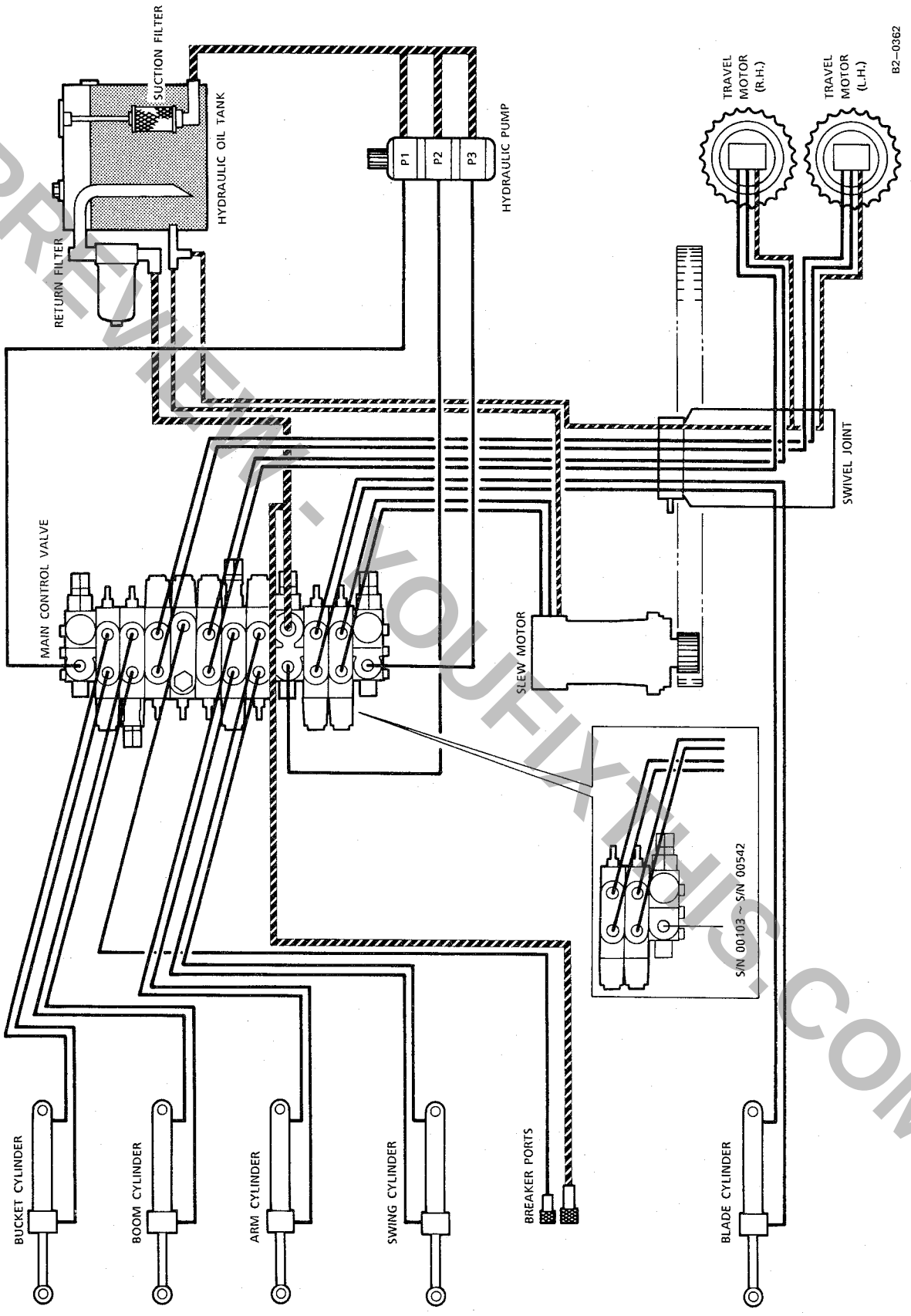
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HYDRAULIC SYSTEM DIAGRAM



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TIGHTENING TORQUES

Hydraukic Hose Fittings

Thread Size	Torque			
	Union Nut (PF)		Taper Thread (PT)	
	kgf·m	ft-lb	kgf·m	ft-lb
1/8	$1.0^{+0.5}_{0}$	$7.3^{+3.5}_{0}$	$1.2^{\pm 0.12}$	$8.7^{\pm 0.8}$
1/4	$2.5^{+0.5}_{0}$	$18.1^{+3.5}_{0}$	$3.0^{\pm 0.30}$	$21.7^{\pm 2.1}$
3/8	$5.0^{+0.5}_{0}$	$36.2^{+3.5}_{0}$	$5.5^{\pm 0.55}$	$39.8^{\pm 3.9}$
1/2	$6.0^{+0.5}_{0}$	$43.4^{+3.5}_{0}$	$9.0^{\pm 0.90}$	$65.1^{\pm 6.4}$
3/4	$12.0^{+0.5}_{0}$	$86.8^{+3.5}_{0}$	$15.0^{\pm 1.50}$	$108.5^{\pm 10.7}$
1	$14.0^{+0.5}_{0}$	$101.3^{+3.5}_{0}$	$20.0^{\pm 2.00}$	$144.7^{\pm 14.3}$

Pipe Fittings (PT)

Thread Size	Torque			
	Steel		Case Steel	
	kgf·m	ft-lb	kgf·m	ft-lb
1/8	$1.2^{\pm 0.12}$	$8.7^{\pm 0.8}$	$1.1^{\pm 0.11}$	$8.0^{\pm 0.7}$
1/4	$3.0^{\pm 0.30}$	$21.7^{\pm 2.1}$	$2.5^{\pm 0.25}$	$18.1^{\pm 1.7}$
3/8	$5.5^{\pm 0.55}$	$39.8^{\pm 3.9}$	$5.0^{\pm 0.50}$	$36.2^{\pm 3.5}$
1/2	$9.0^{\pm 0.90}$	$65.1^{\pm 6.4}$	$7.5^{\pm 0.75}$	$54.3^{\pm 5.3}$
3/4	$15.0^{\pm 1.50}$	$108.5^{\pm 10.7}$	$13.0^{\pm 1.30}$	$94.1^{\pm 9.3}$
1	$20.0^{\pm 2.00}$	$144.7^{\pm 14.3}$	$17.5^{\pm 1.75}$	$126.6^{\pm 12.5}$

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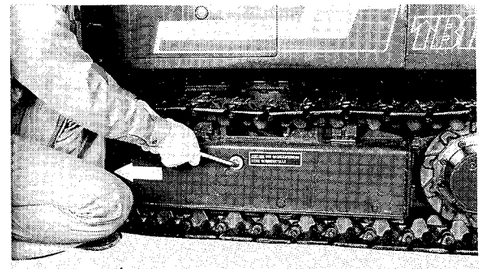
DISASSEMBLY AND REASSEMBLY OF LOWER MACHINERY

- Lower Machinery
  - Crawler Belt
    - Shoe Slide
    - Track Roller
    - Travel Motor
    - Front Idler, Track Spring
  - Dozer Blade

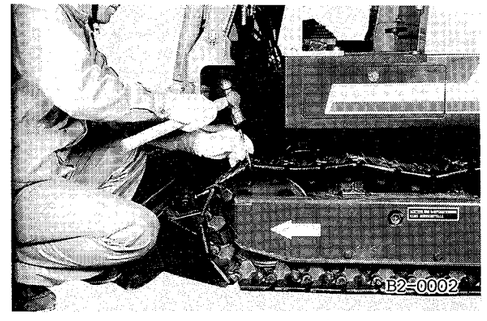
* Bleed the air out of the hydraulic oil tank before disconnecting hydraulic hoses.
* Install plugs on parts where hydraulic hoses have been disconnected, and take measures to prevent dirt, etc. from getting into the hydraulic system.

Crawler Belt Removal

1. Loosen the check valve and release the crawler belt tension.
   * Turn the check valve 7 or 8 times to loosen it. This will cause the grease in the grease cylinder to be discharged and the crawler belt tension will be released.


B2-0001

2. Knock out the spring pin.


B2-0002

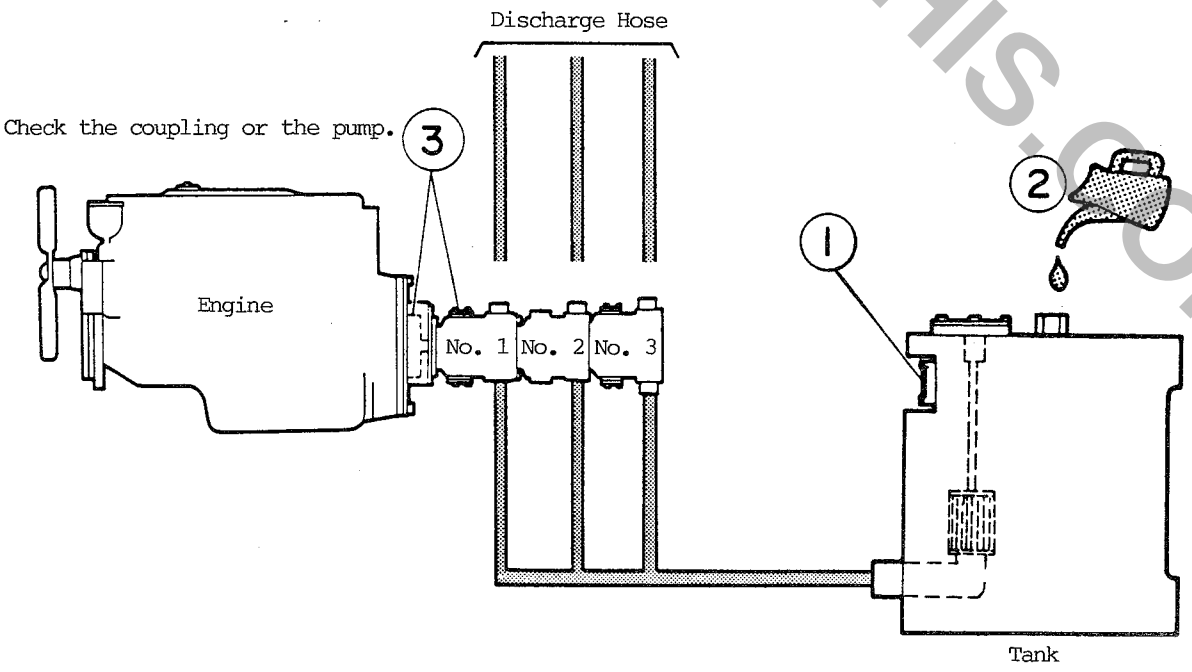
3. Knock out the track pin.


B2-0003

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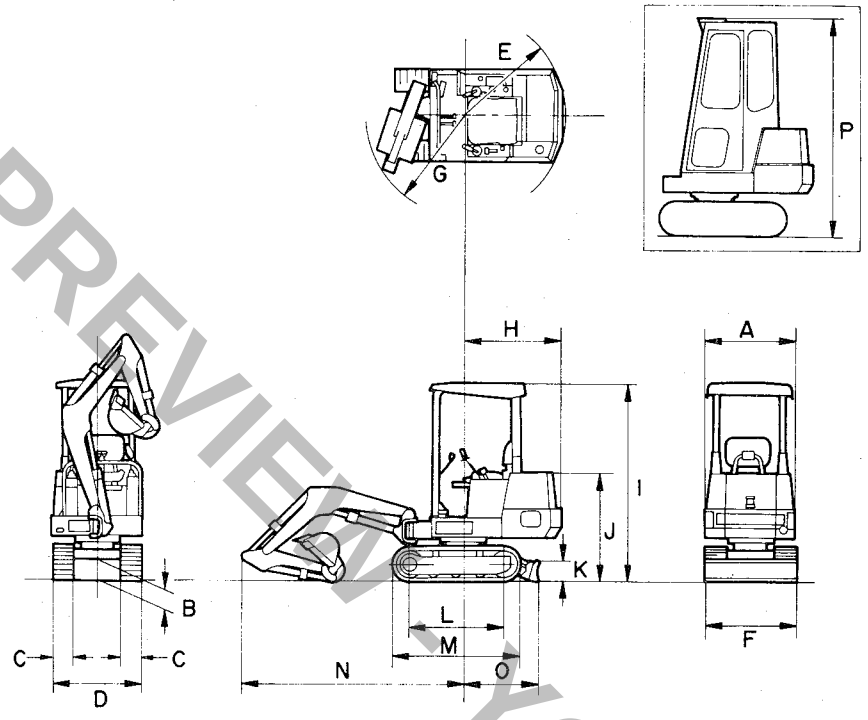
No operations can be done.

1	Check the hydraulic oil	Insufficient →	2	Replenish the hydraulic oil.
↓ Proper Level				
3	The main pump or the coupling is defective.	Disassemble and check →		Repair the main pump or replace the Ass'y. Replace the coupling.



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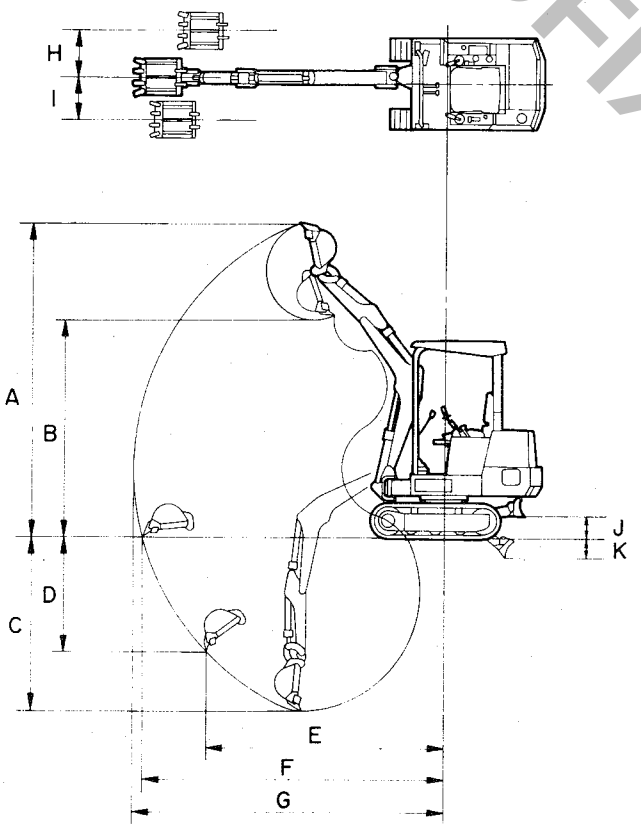
DIMENSIONS



B2-201

	mm	in
A	950	37.4
B	214	8.4
C	230	9.1
D	960	37.8
E	1079	42.5
F	960	37.8
G	1144 (1168)	45 (46)
H	1045	41.1
I	2145	84.4
J	1142	45
K	233	9.2
L	1017	40
M	1389	54.7
N	2410	94.9
O	790	31.1
P	(2289)	(90.1)

Values in ( ) show when cabin specifications are used.



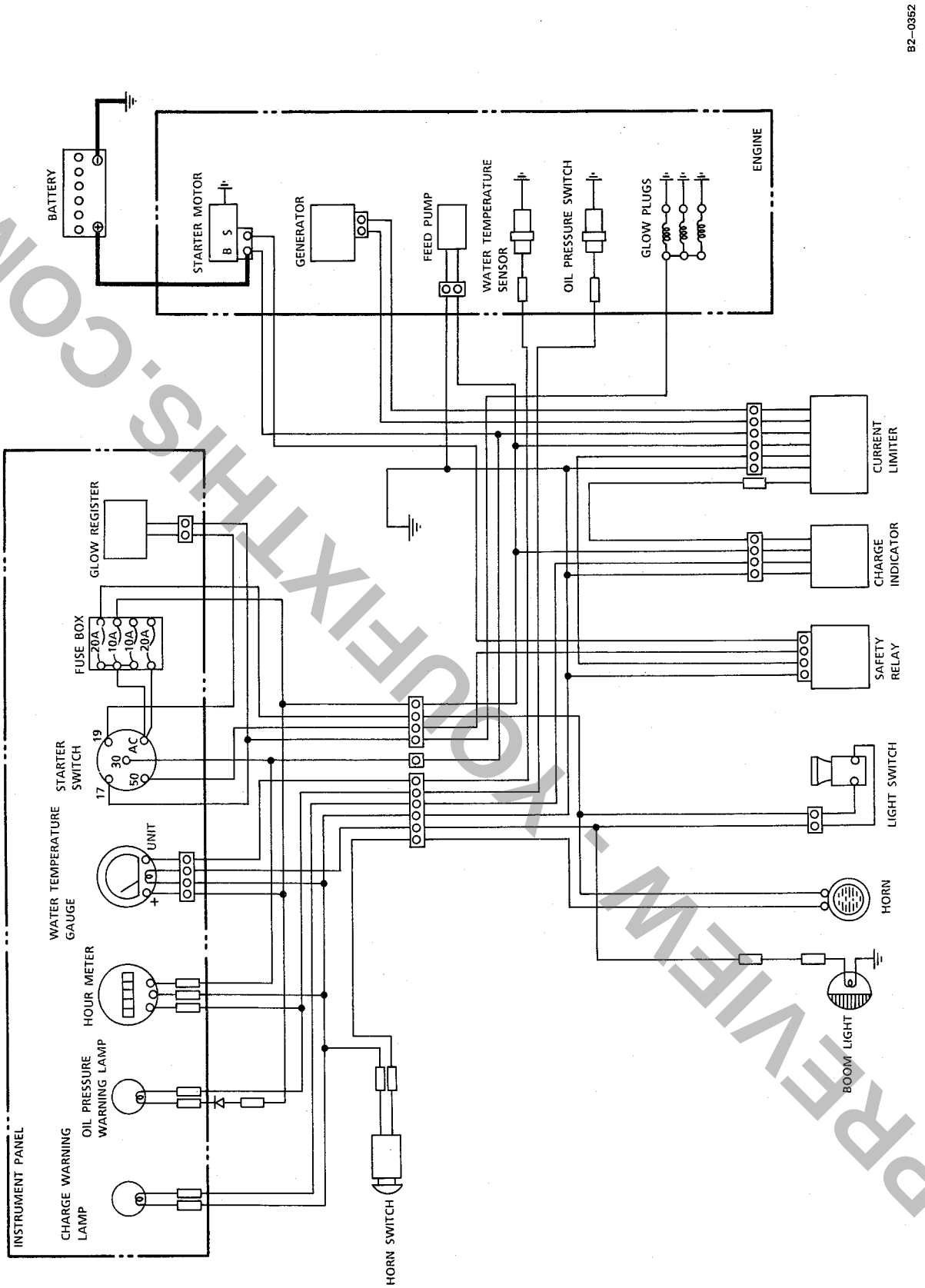
B2-202

	mm	in
A	3549 (3481)	139.7 (137.1)
B	2535 (2475)	99.8 (97.5)
C	2133	84
D	1537	60.5
E	2675	105.3
F	3569	140.5
G	3659	144.1
H	499	19.7
I	455	17.9
J	222	8.8
K	146	5.8

Values in ( ) show when cabin specifications are used.

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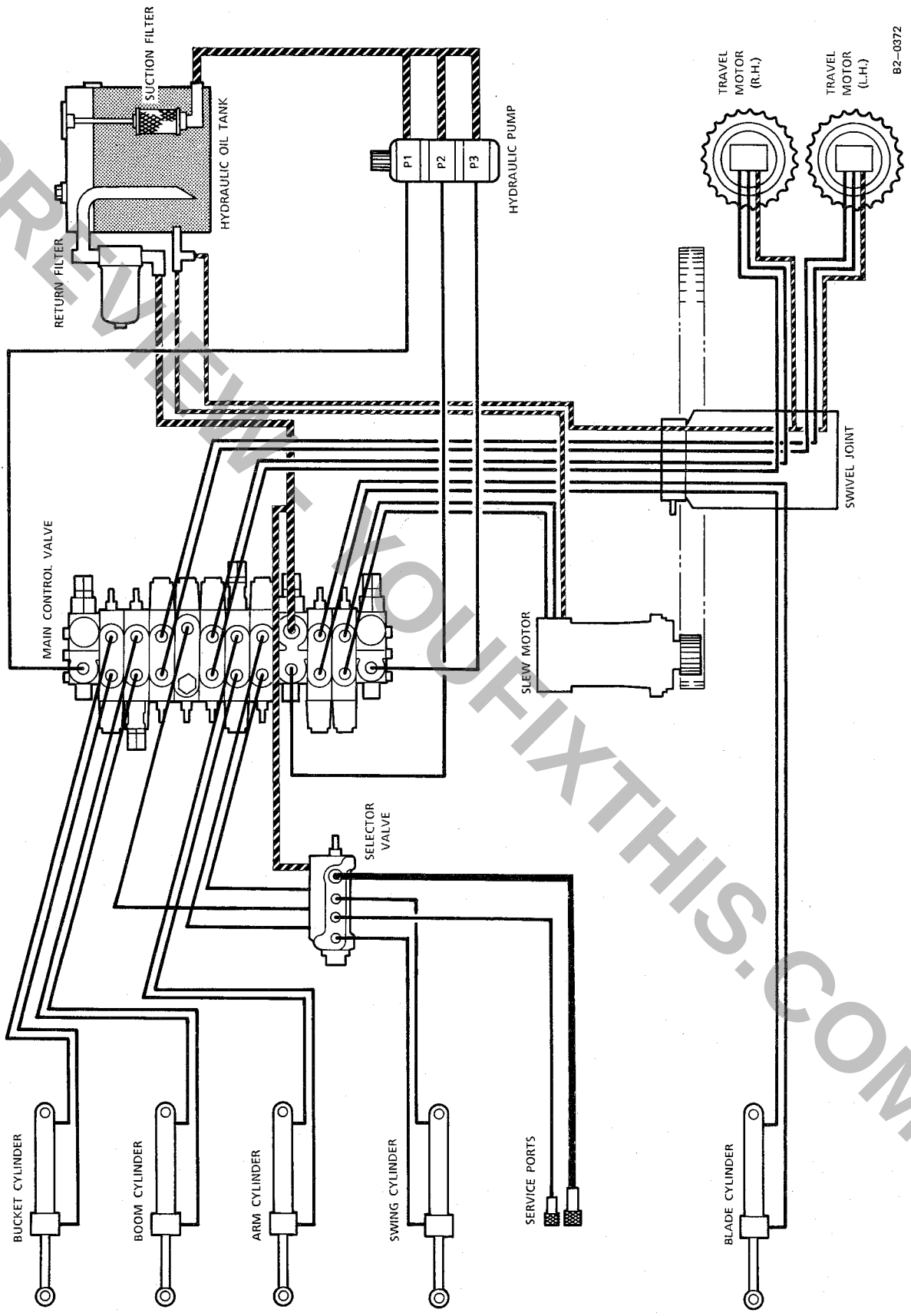
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With Pipings for Service Ports



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Bolts and Nuts For ISO Strength Category 10.9

Category	Size × Pitch	Torque			
		General Connection Points		Special Connection Points	
		kgf·m	ft-lb	kgf·m	ft-lb
Coarse	M 6 × 1.0	1.0 ±0.05	7.3 ± 0.3	1.2 ±0.06	8.7 ± 0.3
	M 8 × 1.25	2.3 ±0.11	16.7 ± 0.7	2.7 ±0.13	19.6 ± 0.8
	M10 × 1.5	4.8 ±0.24	34.8 ± 1.6	5.6 ±0.28	40.5 ± 2.0
	M12 × 1.5	8.9 ±0.44	64.4 ± 3.1	10.4 ±0.52	75.3 ± 3.6
	M12 × 1.75	8.5 ±0.42	61.5 ± 2.9	9.9 ±0.49	71.6 ± 3.5
	M14 × 2.0	13.7 ±0.68	99.1 ± 4.8	15.9 ±0.79	115.0 ± 5.7
	M16 × 2.0	21.2 ±1.06	153.3 ± 7.5	24.6 ±1.23	178.0 ± 8.8
	M20 × 2.5	41.9 ±2.09	303.1 ±15.0	48.5 ±2.42	350.8 ±17.4
Fine	M 6 ×	–	–	–	–
	M 8 × 1.0	2.5 ±0.12	18.1 ± 0.8	2.9 ±0.14	21.0 ± 0.9
	M10 × 1.25	5.1 ±0.25	36.9 ± 1.7	6.0 ±0.30	43.4 ± 2.1
	M12 × 1.25	9.3 ±0.46	67.3 ± 3.2	10.8 ±0.54	78.2 ± 3.8
	M14 × 1.5	13.8 ±0.69	99.9 ± 4.9	16.1 ±0.80	116.5 ± 5.7
	M16 × 1.5	22.5 ±1.12	162.8 ± 8.0	26.1 ±1.30	188.8 ± 9.3
	M20 × 1.5	46.1 ±2.30	333.5 ±16.5	53.5 ±2.66	387.0 ±19.1

1. General Connection Point (Not lubricated)
   · Points other than special connection points.

2. Special Connection Point (Apply grease with molybdenum disulfide added)
   · Points which are particularly important for function.
   a. Travel motor connections.
   b. Drive sprocket connections.
   c. Connections between slew bearing and turntable.
   d. Other areas deemed necessary in the design.

3. Points where Thread Lock is Used (with Three Bond #1324 applied)
   a. Connections between the slew bearing and lower frame.
   b. Engine foot connections.
   c. Pump coupling connections.
   d. Rod end connections in the lever assembly.

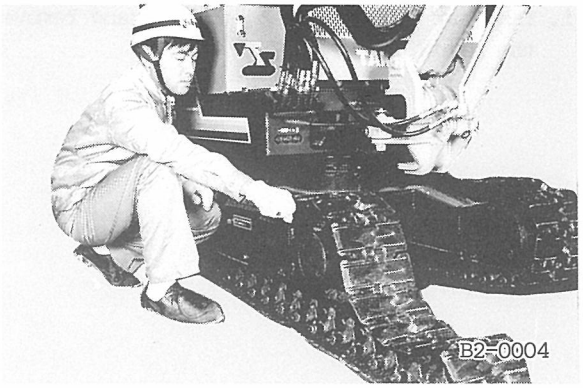
4. If tightening torques are included in the text, use the specified tightening torques.

5. Tighten the upper and lower, left and right bolts and nuts alternately so that tightening is uniform all around.

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Crawler Belt Installation

1. Raise up the excavator slightly and set the crawler belt underneath the frame, then engage the belt with the drive tumbler.
   * Raise the excavator body using the hoe attachment.
   * Place stands underneath the excavator body for support.



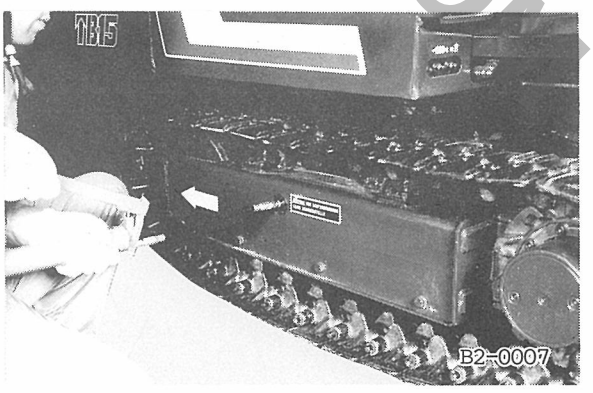
2. Wind the crawler belt while rotating the travel motor slowly in the forward direction.



3. Match up the front ends of the crawler belt and insert the track pin.

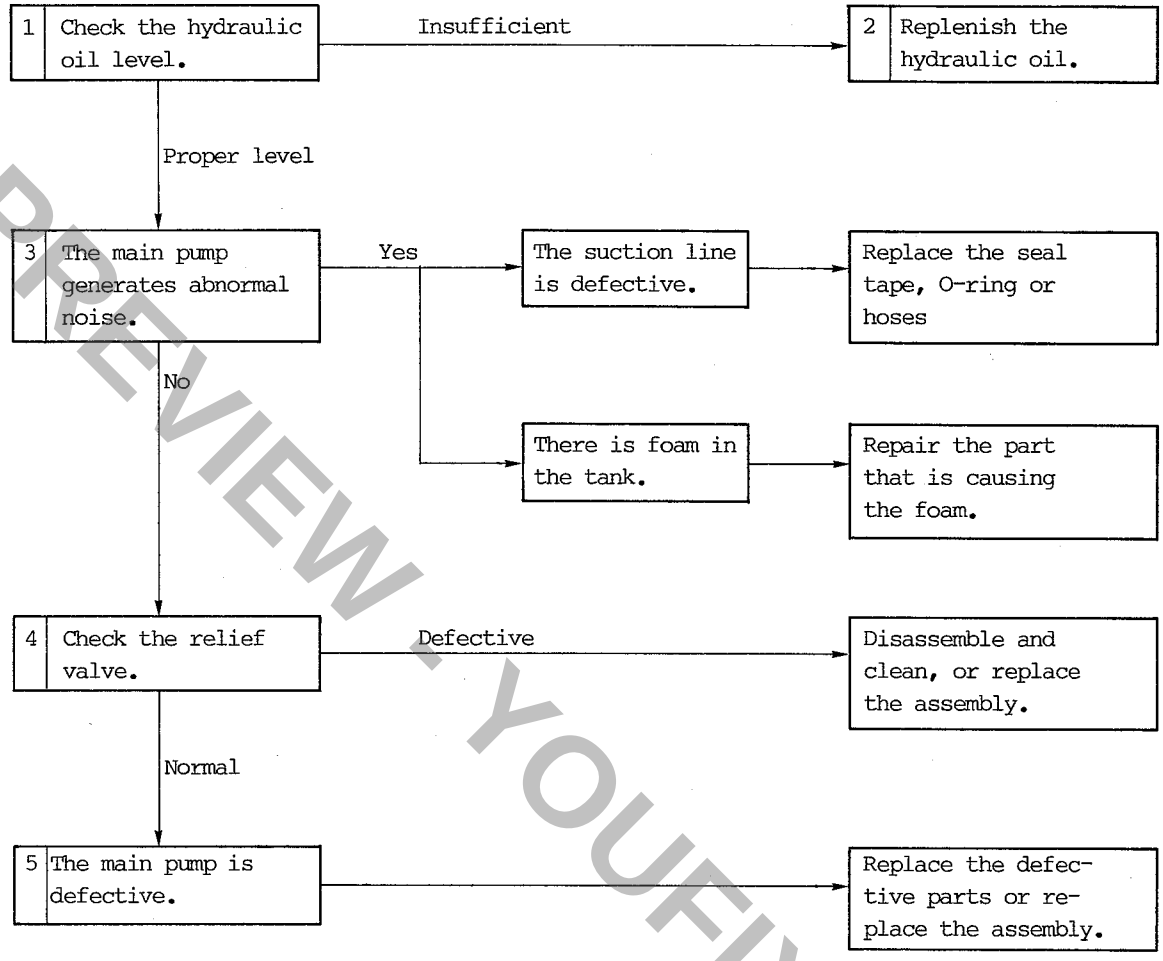


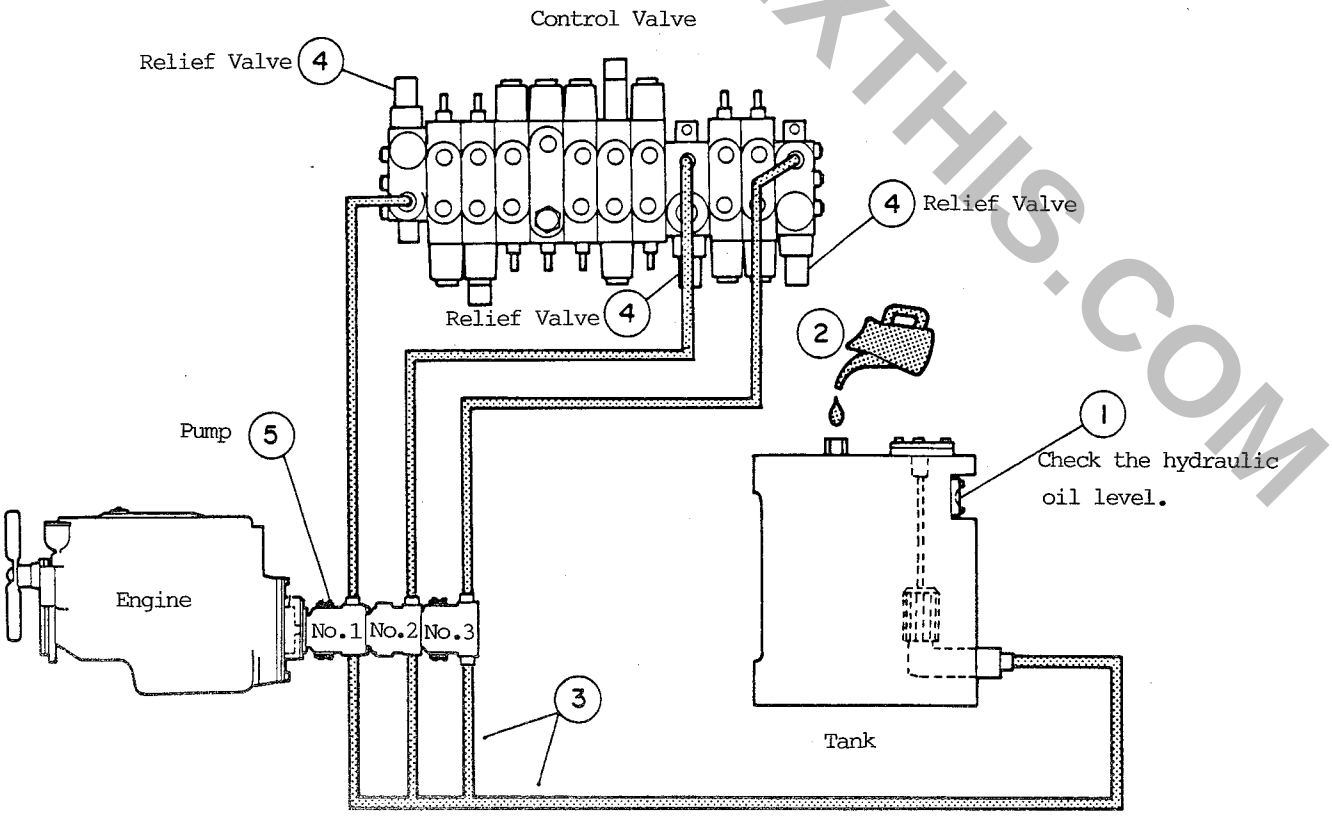
4. Raise up the excavator body once more and supply grease through the check valve, then adjust the crawler belt tension. (Refer to II-19 on crawler belt tension for adjustment dimensions.)



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All operations can be done, but there is no power.





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SPECIFICATIONS

GENERAL SPECIFICATIONS

		Canopy Specifications		Cabin Specifications	
Weight	kg (lb)				
Weight at Transport : Steel Crawler		1400	(3086)	1505	(3318)
Rubber Crawler		1335	(2943)	1440	(3175)
Dimensions	mm (in)				
Overall Length (Transport Position)		3455	(136.0)	←	
Overall Width		960	(37.8)	←	
Overall Height (Transport Position)		2145	(84.4)	2289	(90.1)
Minimum Ground Clearance		214	(8.4)	←	
Minimum Clearance, Upper Machinery to Groundline		469	(18.5)	←	
Overall Width of Upper Machinery		950	(37.4)	←	
Overall Width of Crawler		960	(37.8)	←	
Overall Length of Crawler		1389	(54.7)	←	
Minimum Slwing Radius		1384	(54.5)	1413	(55.6)
Maximum Height of Hoe at Minimum Slewing Radius		2570	(101.2)	2535	(99.8)
Tail Swing Radius		1079	(42.5)	←	
Dozer Blade Width		960	(37.8)	←	
Dozer Blade Height		233	(9.2)	←	
Working Ranges	mm (in)				
Maximum Digging Height		3549	(139.7)	3481	(137.1)
Maximum Digging Depth		2133	(84.0)	←	
Vertical Digging Depth		1537	(60.5)	←	
Maximum Digging Reach		3659	(144.1)	←	
Maximum Reach at Groundline		3569	(140.5)	←	
Maximum Dumping Height		2535	(99.8)	2475	(97.5)
Bucket Offset : Left		455	(17.9)	←	
Right		499	(19.7)	←	
Performance					
Slew Speed	rpm (rpm)	10.3	(10.3)	←	
Travel Speed : Steel Crawler	km/h (mph)	2.0	(1.24)	←	
Rubber Crawler	km/h (mph)	2.0	(1.24)	←	
Gradeability	deg (deg)	30	(30)	←	
Ground Pressure (JIS) : Steel Crawler	kgf/cm² (psi)	0.277	(3.94)	0.297	(4.23)
Rubber Crawler	kgf/cm² (psi)	0.264	(3.76)	0.284	(4.04)
Engine					
Model		Yanmar 3TNA72L-UTB		←	
Type		Water cooled 3-cylinder swirl-chamber diesel		←	
Rated Output	ps (hp) @ rpm	14.5 (14.3) @ 2250		←	
Maximum Torque	kgfm (ft-lb) @ rpm	5.0 (36.2) @ 1700		←	
Bucket					
Width	mm (in)	400	(15.8)	←	
SAE Rated Capacity	m³ (yd³)	0.030	(0.040)	←	
SAE Struck Capacity	m³ (yd³)	0.022	(0.029)	←	
Weight	kg (lb)	31	(68.4)	←	

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