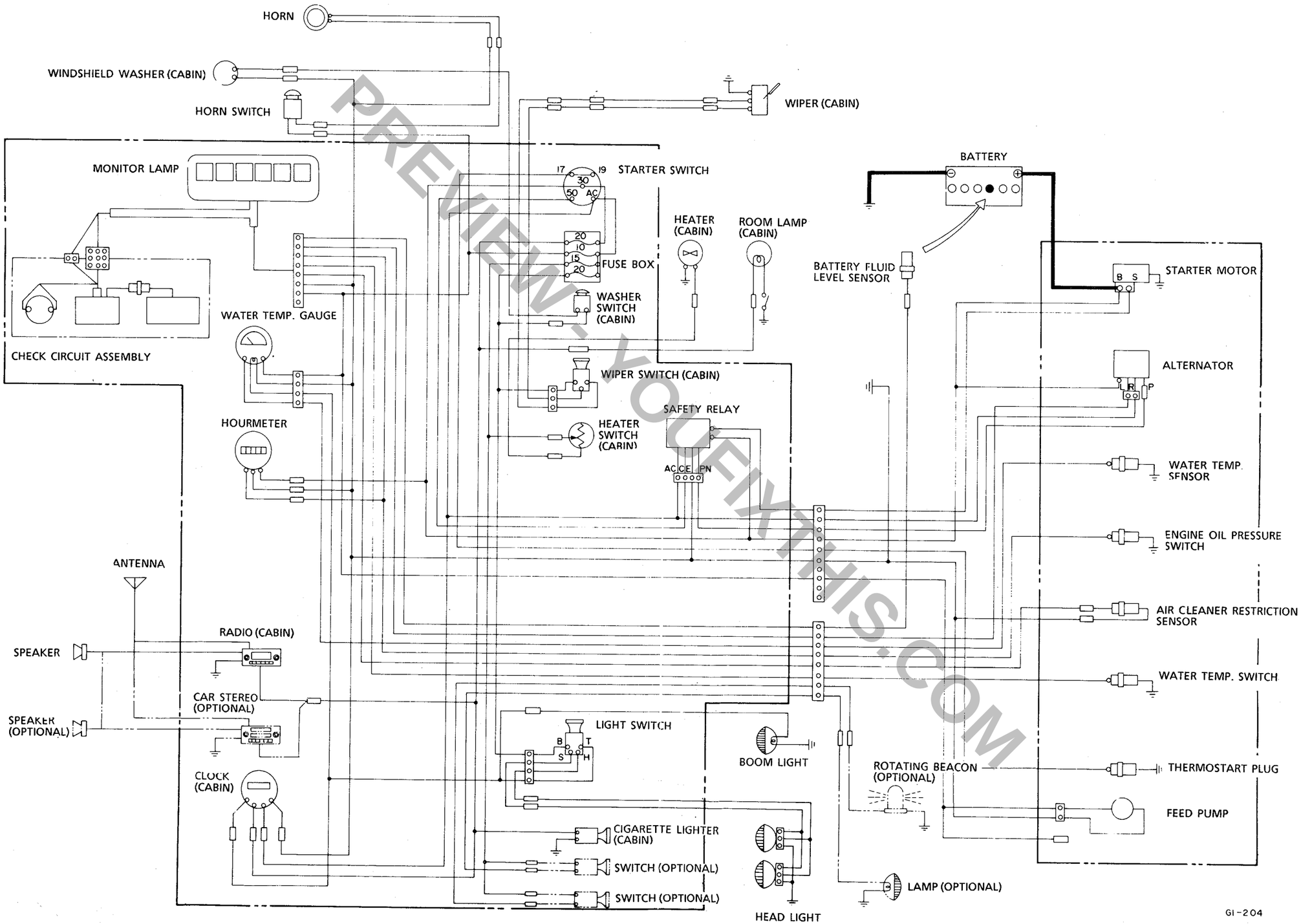
ELECTRICAL WIRING DIAGRAM

S/N 00103 ~ S/N 00729

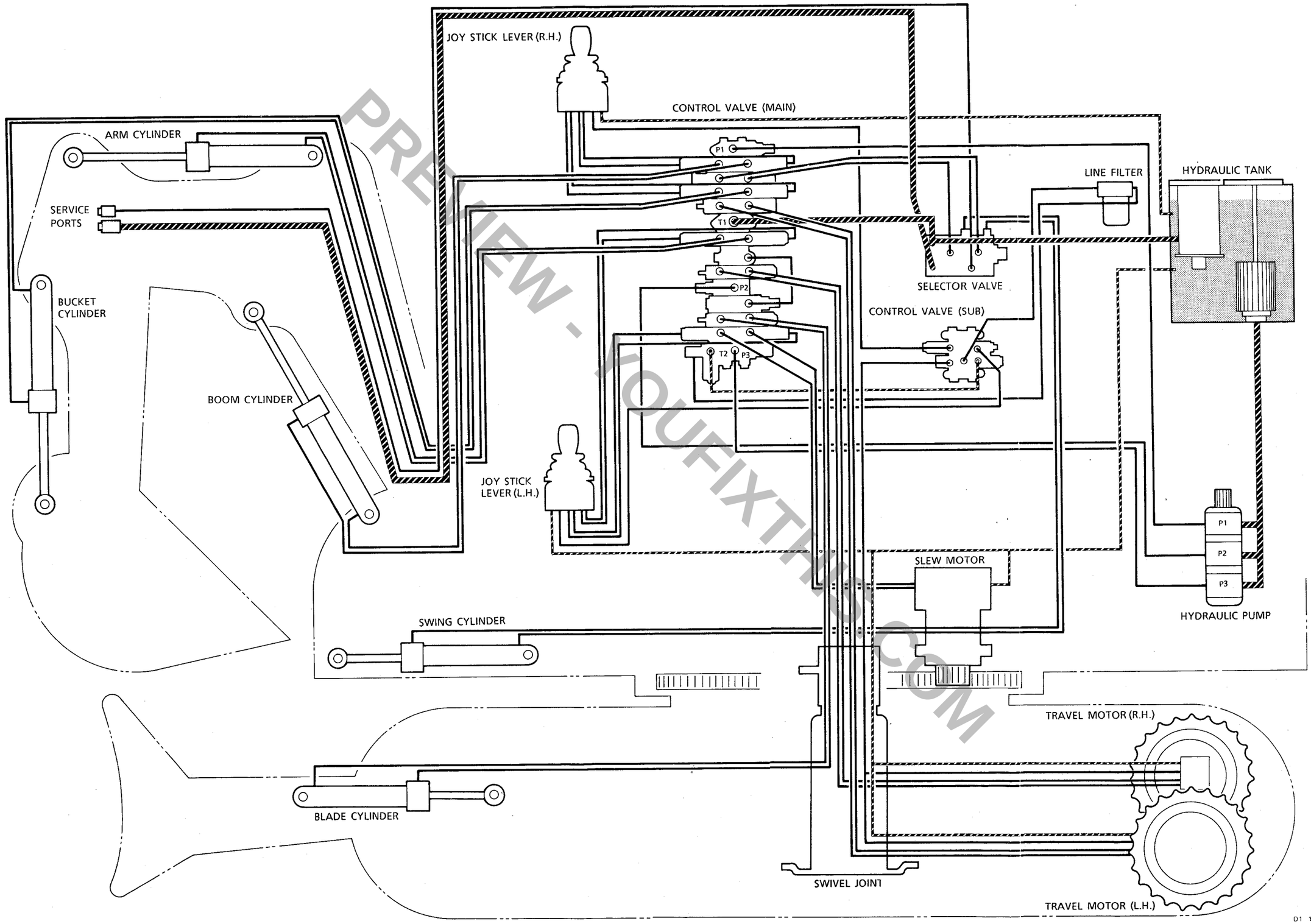


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HYDRAULIC SYSTEM DIAGRAM

S/N 00103 ~ S/N 00834



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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 ± 0.12	8.7 ± 0.8
1/4	$2.5^{+0.5}_{0}$	$18.1^{+3.5}_{0}$	3.0 ± 0.30	21.7 ± 2.1
3/8	$5.0^{+0.5}_{0}$	$36.2^{+3.5}_{0}$	5.5 ± 0.55	39.8 ± 3.9
1/2	$6.0^{+0.5}_{0}$	$43.4^{+3.5}_{0}$	9.0 ± 0.90	65.1 ± 6.4
3/4	$12.0^{+0.5}_{0}$	$86.8^{+3.5}_{0}$	15.0 ± 1.50	108.5 ± 10.7
1	$14.0^{+0.5}_{0}$	$101.3^{+3.5}_{0}$	20.0 ± 2.00	144.7 ± 14.3

Pipe Fittings (PT)

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

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DISASSEMBLY, REASSEMBLY

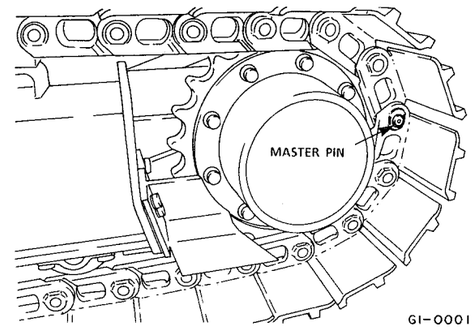
DISASSEMBLY AND REASSEMBLY OF LOWER MACHINERY

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

- Bleed the air out of the hydraulic 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.

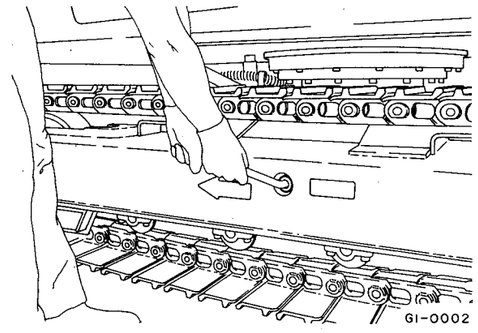
Crawler Belt Removal

1. Stop the machine so that the position of the master pin is on the travel motor side or on the front idler side.

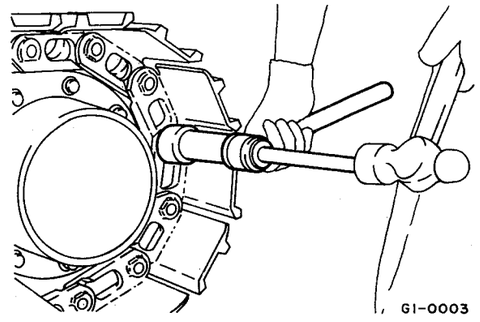


GI-0001

2. Loosen the check valve and release the crawler belt tension.
   - Turn the check valve 1 or 2 times to loosen it. This will cause the grease in the grease cylinder to be discharged and the crawler belt tension will be released.


GI-0002

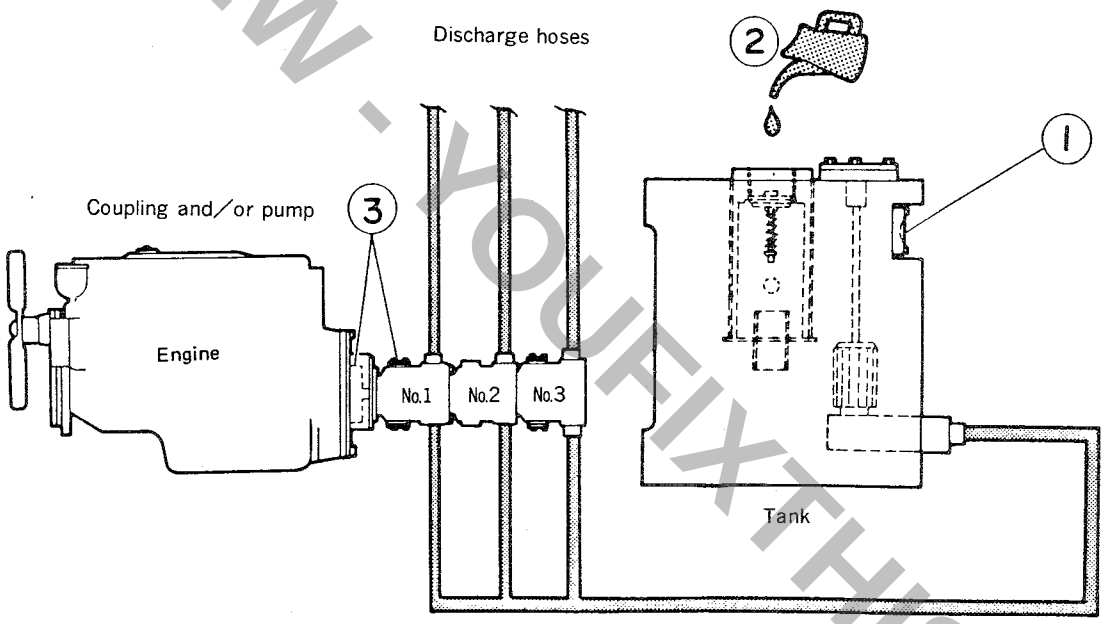
3. Knock out the master pin.


GI-0003

ALL OPERATIONS ARE NOT POSSIBLE

1	Check the hydraulic oil	Insufficient	2	Replenish the hydraulic oil
3	Defective pump or coupling	Disassembly and inspection		Repair the pump or replace the pump assembly. Replace the coupling.

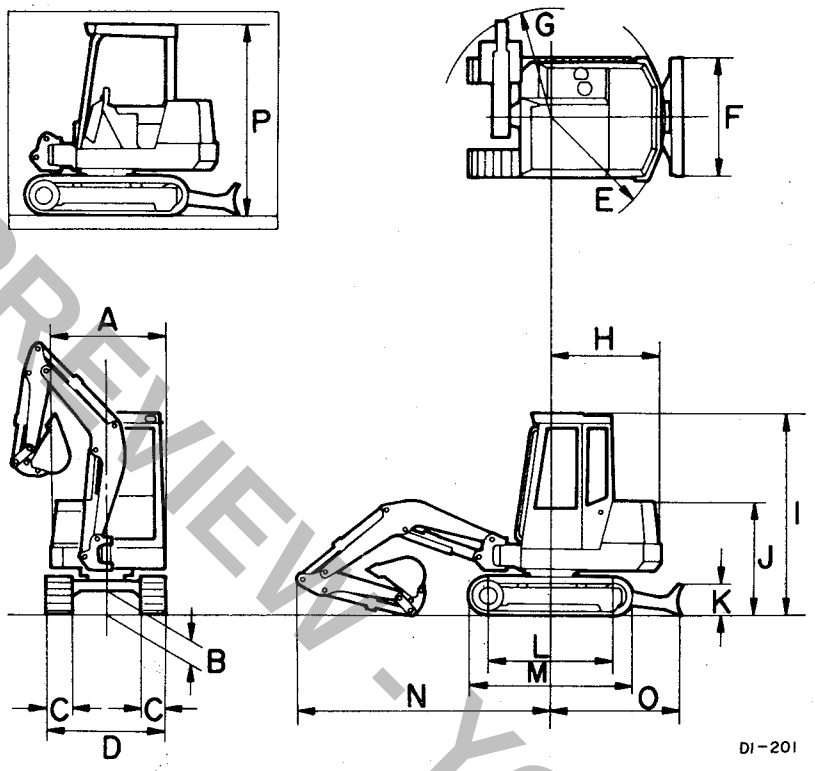
Suitable amount



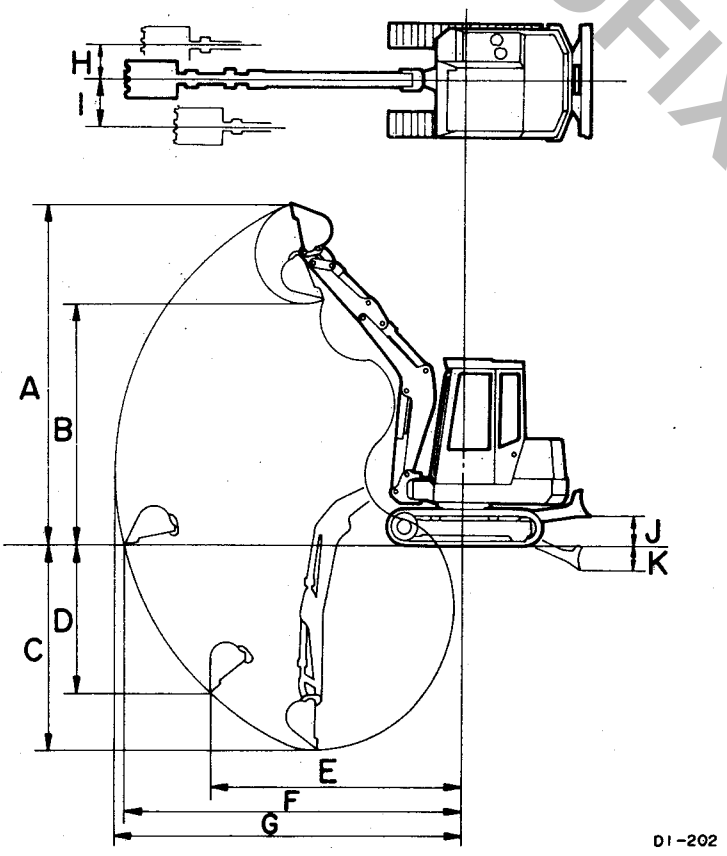
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DIMENSIONS



	mm	in
A	1450	57.1
B	305	12.0
C	300	11.8
D	1400	55.1
E	1415	55.7
F	1450	57.1
G	1330	52.4
H	1350	53.1
I	2410	94.9
J	1375	54.1
K	350	13.8
L	1395	54.9
M	1845	72.6
N	2980	117.3
O	1565	61.6
P	2365	93.1

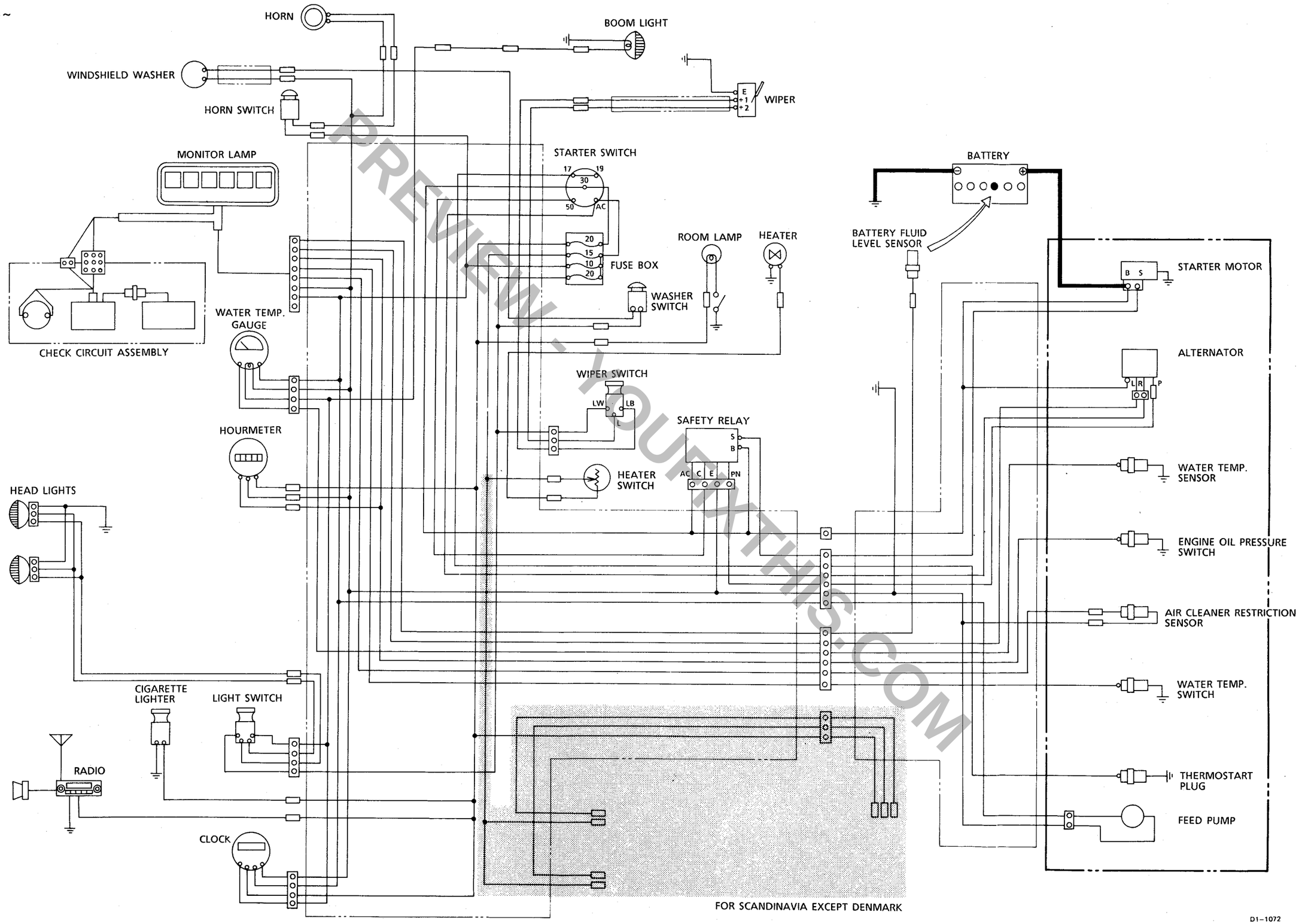


	mm	in
A	4180 (4310)	164.6 (169.7)
B	2930 (3055)	115.4 (120.3)
C	2490 (2700)	98.0 (106.3)
D	1710 (1855)	67.3 (73.0)
E	3330 (3455)	131.1 (136.0)
F	4290 (4490)	168.9 (176.7)
G	4415 (4610)	173.8 (181.5)
H	430	16.9
I	610	24.0
J	440	17.3
K	350	13.8

Values in ( ): with 1310 mm (51.6 in.) long arm.

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S/N 00730 ~

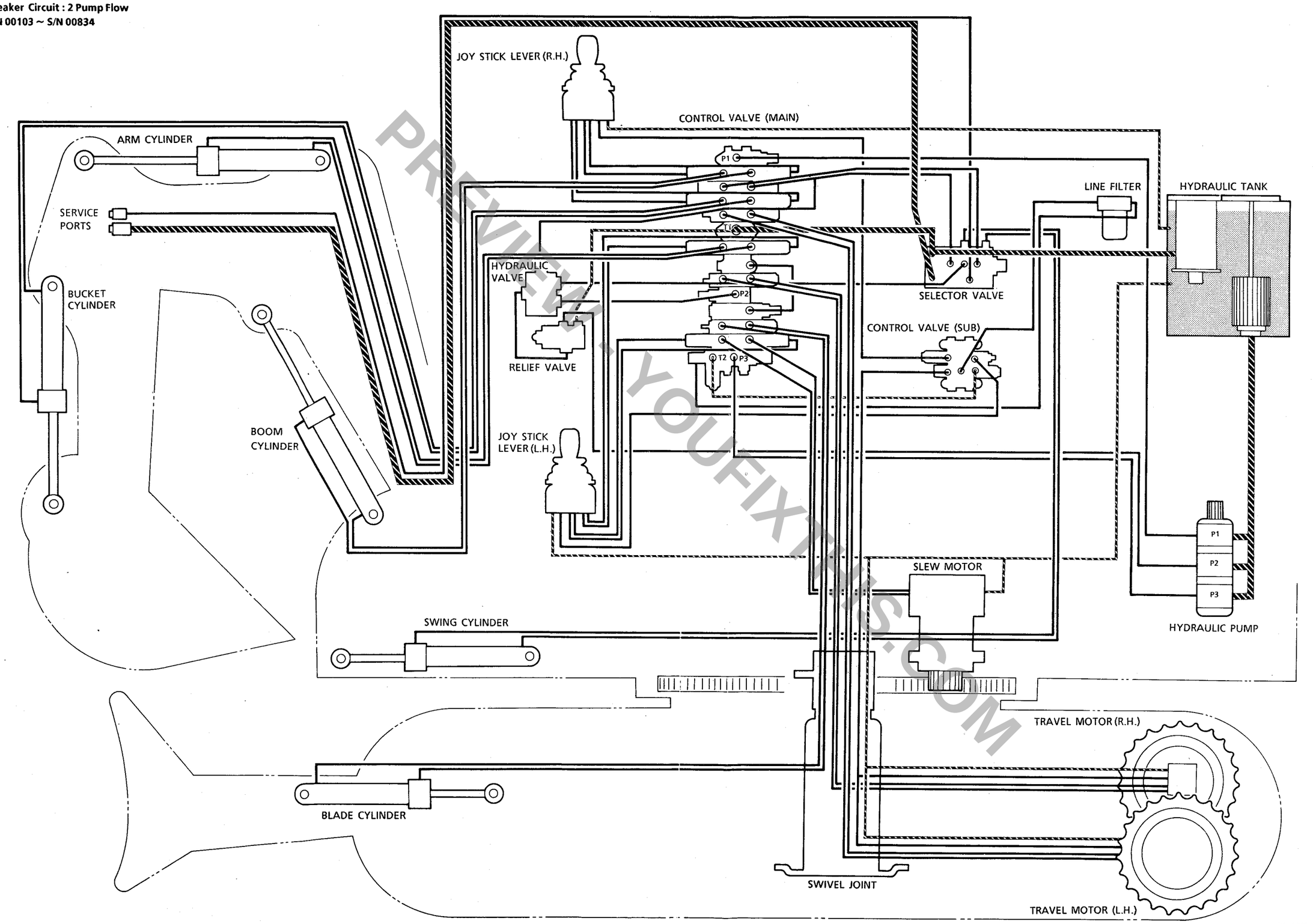


D1-1072

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Breaker Circuit : 2 Pump Flow
S/N 00103 ~ S/N 00834



D1 - 1042

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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.

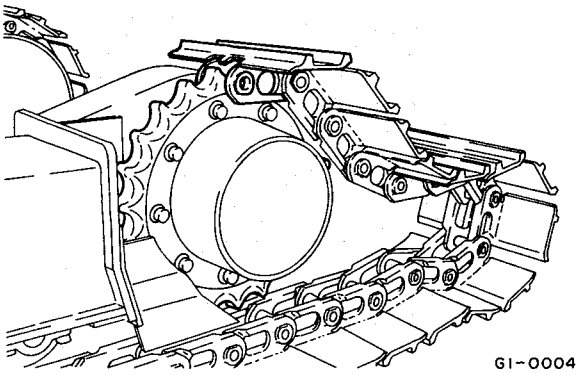
4. If tightening torques are included in the text, use the specified tightening torques.

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

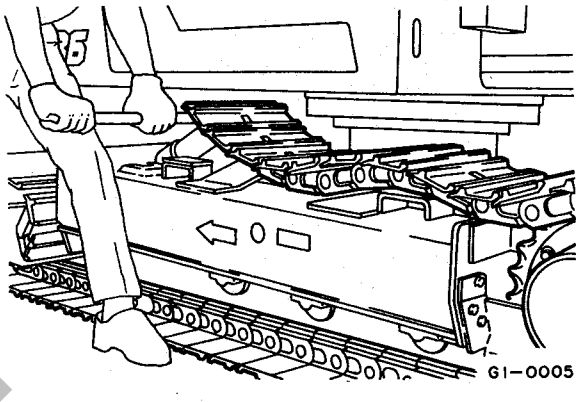
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Crawler Belt Installation

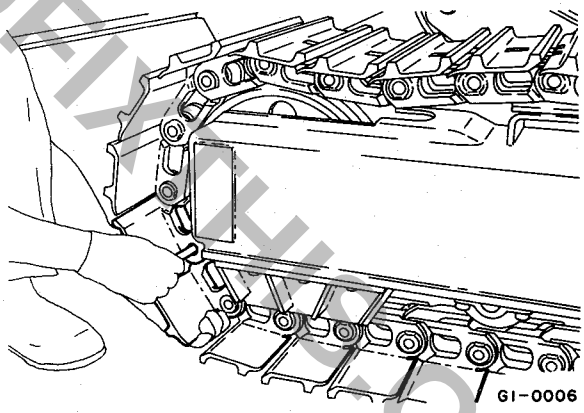
1. Raise up the excavator slightly and set the crawler belt underneath the frame, then engage the belt with the drive sprocket.
   - Raise the excavator body using the hoe attachment.
   - Place stands underneath the excavator body for support.


GI-0004

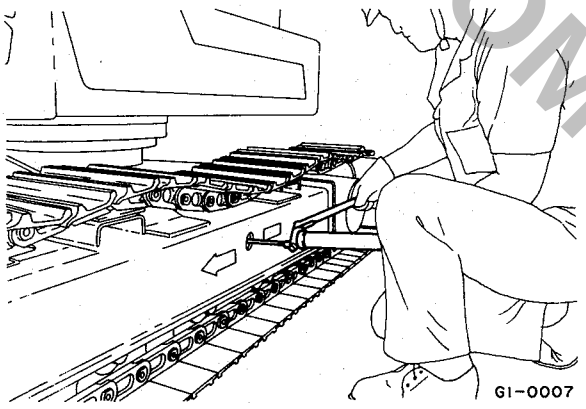
2. Wind the crawler belt while rotating the travel motor slowly in the forward direction.


GI-0005

3. Connect the crawler belt.
   - Align the pin holes and insert the temporary pin.
   - Drive in the master pin.


GI-0006

4. Raise up the excavator boby once more and supply grease through the check valve, then adjust the crawler belt tension. (Refer to II-20 on crawler belt tension for adjustment dimensions.)


GI-0007

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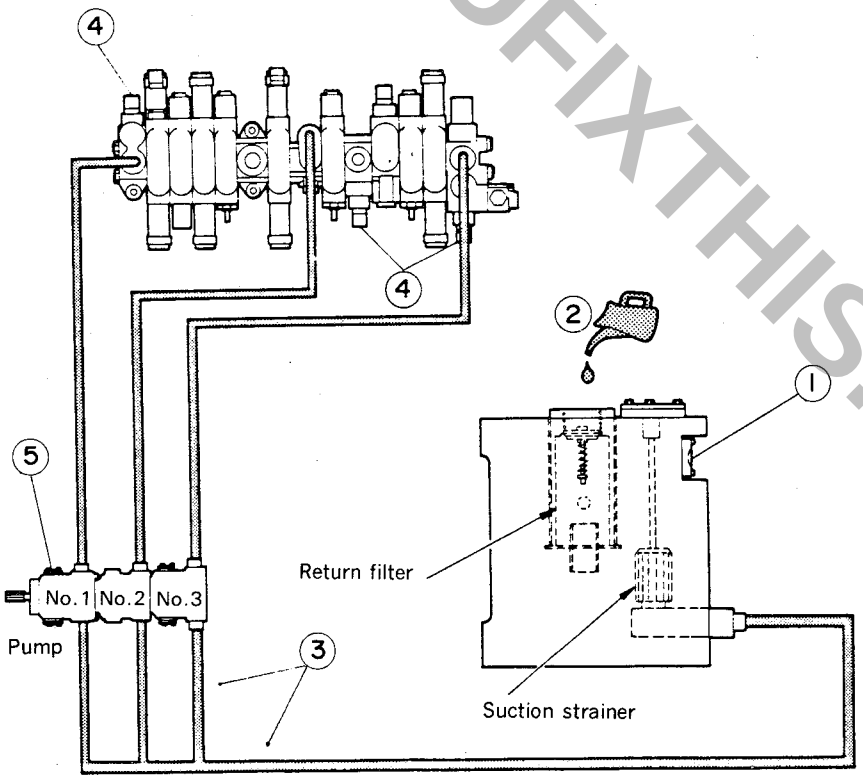
ALL OPERATIONS ARE POSSIBLE, BUT THERE IS NO POWER

1 Check the amount of hydraulic oil
- Insufficient → 2 Replenish the operation oil
- Suitable amount → 3 Abnormal noise from the pump

3 Abnormal noise from the pump
- Yes → Defective suction line → Replace the sealing tape, O-ring, and/or hose.
- Yes → Foaming in the tank → Treat the trouble according to the cause of the foaming
- No → 4 Check the relief valves

4 Check the relief valves
- Defective → Disassemble and clean, or replace the assembly
- Normal → 5 Pump defective

5 Pump defective → Replace parts or the entire assembly. Flush out the hydraulic oil.



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GENERAL SPECIFICATIONS

Weight	kg (lb)		
Weight at Transport : Steel Crawler		2900	(6393)
Rubber Crawler		2770	(6107)
Dimensions	mm (in)		
Overall Length (Transport Position)		4545	(178.9)
Overall Width		1450	(57.1)
Overall Height (Transport Position)		2410	(94.9)
Minimum Ground Clearance		305	(12.0)
Minimum Clearance, Upper Machinery to Groundline		560	(22.0)
Overall Width of Upper Machinery		1378	(54.3)
Overall Width of Crawler		1450	(57.1)
Overall Length of Crawler		1845	(72.6)
Minimum Slewing Radius		1685	(66.3)
Maximum Height of Hoe at Minimum Slewing Radius		3200	(126.0)
Tail Swing Radius		1415	(55.7)
Dozer Blade Width		1450	(57.1)
Dozer Blade Height		350	(13.8)
Working Ranges	mm (in)	Standard Arm	Long Arm
Maximum Digging Height		4180(164.6)	4310 (169.7)
Maximum Digging Depth		2490 (98.0)	2700 (106.3)
Vertical Digging Depth		1710 (67.3)	1855 (73.0)
Maximum Digging Reach		4415(173.8)	4610 (181.5)
Maximum Reach at Groundline		4290(168.9)	4490 (176.7)
Maximum Dumping Height		2930(115.4)	3055 (120.3)
Bucket Offset : Left		610 (24.0)	←
Right		430 (16.9)	←
Performance			
Slew Speed	rpm (rpm)	9.0	(9.0)
Travel Speed	km/h (mph)	High : 3.4 (2.12)	Low : 1.8 (1.12)
Gradeability	deg (deg)	30	(30)
Ground Pressure (JIS)	kgf/cm^2 (psi)	0.293	(4.16)
Engine			
Model		Yanmar 3T84HLE-TBS	
Type		Water cooled 4-cycle overhead valve diesel	
Rated Output	ps (hp) @ rpm	23 (23) @ 2200	
Maximum Torque	kgfm (ft-lb) @ rpm	8.4 (61) @ 1600	
Bucket			
Width	mm (in)	45.0	(18)
SAE Rated Capacity	m^3 (yd^3)	0.08	(0.11)
SAE Struck Capacity	m^3 (yd^3)	0.06	(0.07)
Weight	kg (lb)	64	(142)

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