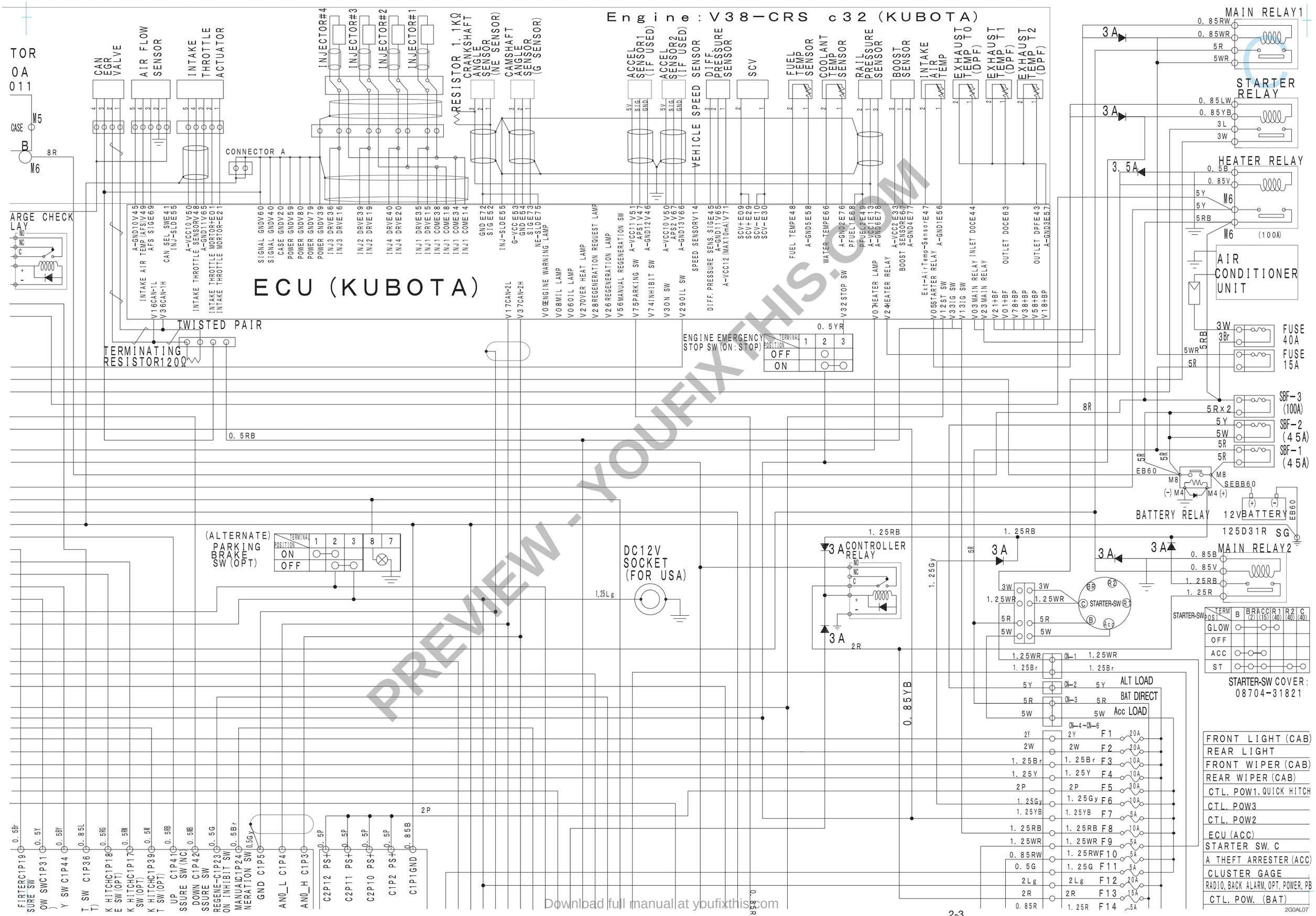
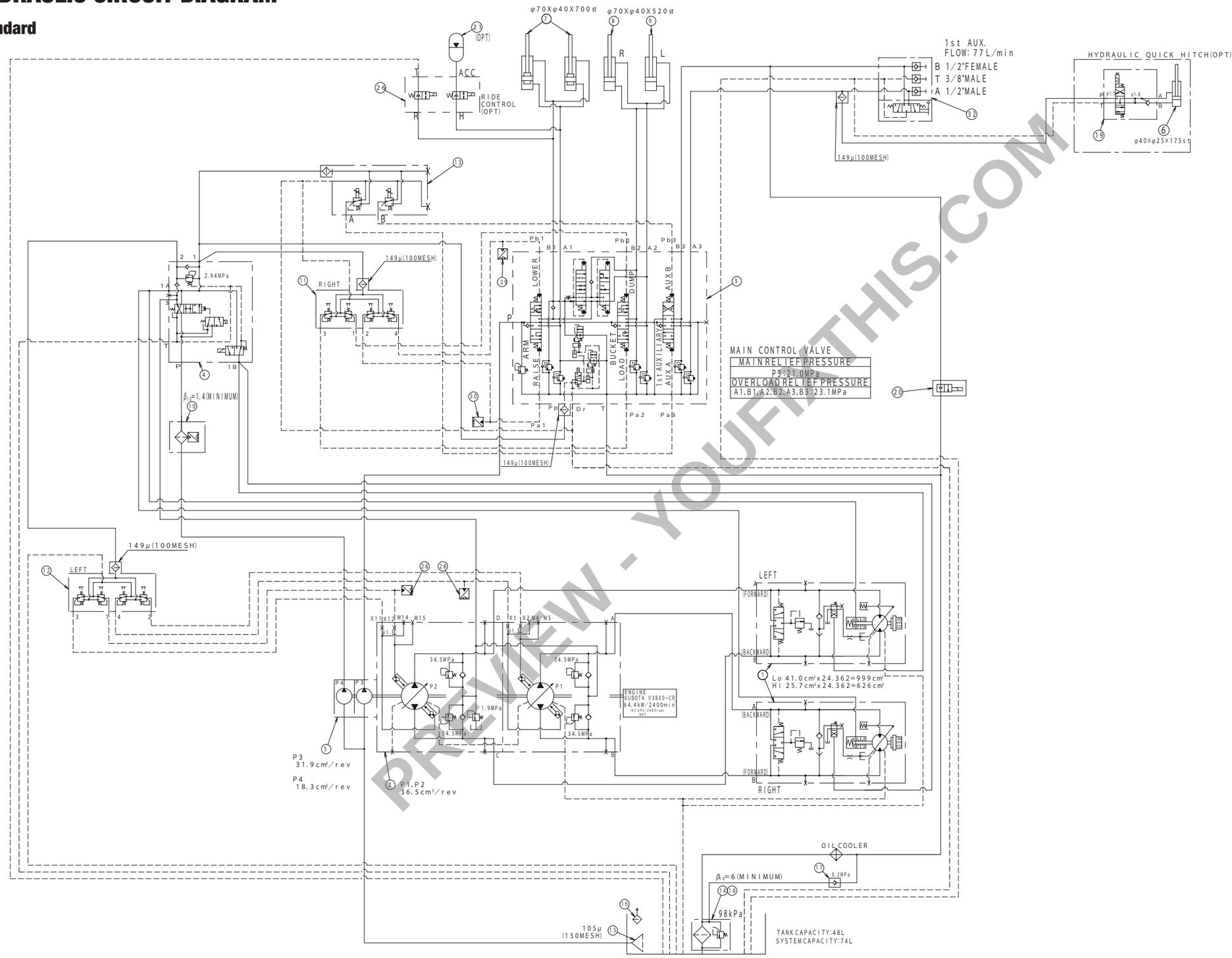


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HYDRAULIC CIRCUIT DIAGRAM

Standard



35	·
34	·
33	·
32	BLOCK COUPLER
31	·
30	PRESSURE SWITCH
29	PRESSURE SWITCH
28	PRESSURE SWITCH
27	·
26	SOLENOID VALVE
25	·
24	·
21	ACCUMULATOR
20	SOLENOID VALVE
19	SOLENOID VALVE
18	RELIEF VALVE
17	CHECK VALVE
16	AIR BREATHER
15	SUCTION FILTER
14	RETURN FILTER
13	PROPORTIONAL SOLENOID VALVE
12	REMOTE C.V. (L)
11	REMOTE C.V. (R)
10	LINE FILTER
9	BUCKET CYLINDER (L)
8	BUCKET CYLINDER (R)
7	ARM CYLINDER
6	QUICK HITCH CYLINDER
5	GEAR PUMP
4	SUB VALVE
3	CONTROL VALVE
2	HST PUMP
1	TRAVEL MOTOR
ITEM	NAME OF PART

HYDRAULIC CIRCUIT DIAGRAM
In Compliance with EC(NRMM) EPA Tier4

Drawing No.	1/1
06801-00420-1	

2F0AT01

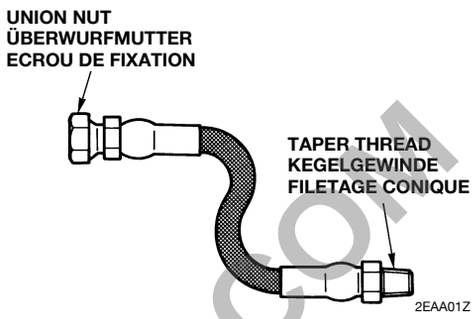
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TIGHTENING TORQUE

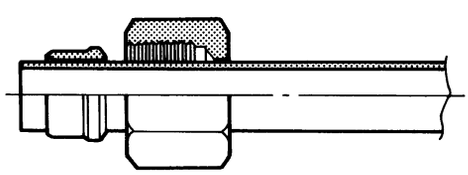
Hydraulic hose

Hose fitting size	Tightening torque			
	Union nut (G)		Taper thread (R)	
	N·m	ft-lb	N·m	ft-lb
1/8	$9.8^{+4.9}_{0}$	$7.3^{+3.5}_{0}$	11.8 ±1.2	8.7 ±0.8
1/4	$24.5^{+4.9}_{0}$	$18.1^{+3.5}_{0}$	29.4 ±2.9	21.7 ±2.1
3/8	$49.0^{+4.9}_{0}$	$36.2^{+3.5}_{0}$	53.9 ±5.4	39.8 ±3.9
1/2	$58.8^{+4.9}_{0}$	$43.4^{+3.5}_{0}$	88.3 ±8.8	65.1 ±6.4
3/4	$117.7^{+4.9}_{0}$	$86.8^{+3.5}_{0}$	147.1 ±14.7	108.5 ±10.7
1	$137.3^{+4.9}_{0}$	$101.3^{+3.5}_{0}$	196.1 ±19.6	144.7 ±14.3



Bite-type pipe fitting for steel pipe

Pipe outer diameter (mm)	Tightening torque	
	N·m	ft-lb
8	34.3 ±4.9	23.5 ±3.5
10	41.7 ±2.5	30.7 ±1.7
12	58.8 ±4.9	43.4 ±3.5
15	88.3 ±4.9	65.1 ±3.5
16	93.2 ±4.9	68.7 ±3.5
18	132.4 ±4.9	97.6 ±3.5
22	205.9 ±9.8	151.8 ±7.2
27.2	245.2 ±9.8	181.0 ±7.2
28	313.8 ±19.6	231.4 ±14.3
32	313.8 ±19.6	231.4 ±14.3
35	411.9 ±19.6	303.7 ±14.3



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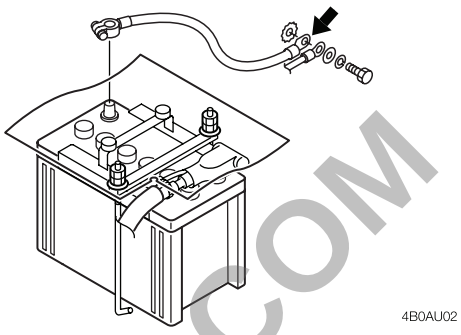
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Removing the engine

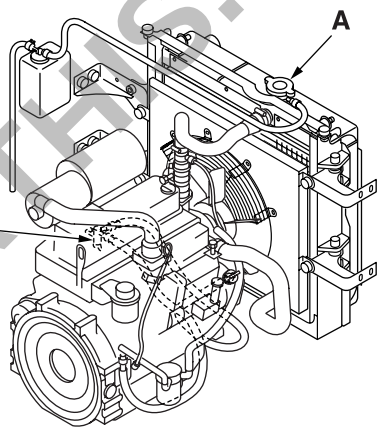
⚠ WARNING

Securely wrap or otherwise isolate the disconnected terminal to ensure that it does not make contact with the body or other parts.

1. Disconnect the ground cable on the battery from the engine body.

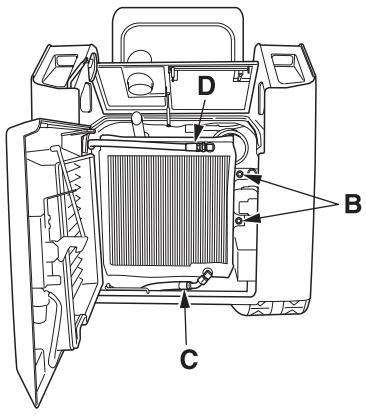

4B0AU02

2. Drain off the engine coolant.
   a. Remove the radiator cap (A).
   b. Loosen the drain cock (31), and let the engine coolant drain out.
      • Engine coolant volume: 15.5 L (16.4 US qt.)
3. Drain off the hydraulic oil from the hydraulic tank.
   ☞ "Removing the hydraulic tank"
   • Total oil volume: 74 L (78.2 US qt.)
4. Remove the covers.
   ☞ "Removing the covers"
5. Disconnect the hoses on the air conditioner.
   • For air conditioner specifications only
   ☞ "Removing the air conditioner"
6. Remove the canopy.
   ☞ "Removing the canopy"
7. Remove the floor frame.
   ☞ "Removing the floor frame"



4B0AT02

8. Remove the radiator assembly (6).
   a. Remove the bolts (B), and open the radiator assembly.
   b. Disconnect the hoses (C) and (D).
      • Prepare a plate to catch drips of hydraulic oil.
   c. Disconnect the hose (28).
   d. Remove the bands, and disconnect the hoses (16) and (17).
      Band: 5 N·m (3.7 ft.-lb)
   e. Remove the pin (32), and remove the radiator assembly (6).
      Radiator assembly: 61 kg (135 lb)
      • During assembly, the radiator is to be mounted at a right angle to the frame and parallel to the cooling fan.



4B0AU04

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OVERALL MACHINE

No operation is possible.

1	Check the hydraulic oil level.	Insufficient	Add oil.
		Sufficient	
2	Check the hydraulic pump.	Faulty	• Repair or replace. • Replace the coupling.
		Normal	
3	Check the fuse.	Faulty	Replace.
		Normal	
4	Check the lever lock switch.	Faulty	Replace.
		Normal	
5	Check the lever lock relay.	Faulty	Replace.
		Normal	
6	Check the lever lock solenoid.	Faulty	Repair or replace.
		Normal	
7	Check the SUB valve.	Faulty	Repair or replace.
		Normal	
8	The pilot valve is faulty.	Faulty	Repair or replace.

1. Check the hydraulic oil level.
   Check the hydraulic oil tank level.
   ☞ "4. Disassembly and assembly, Hydraulic oil tank"
   When adding, use the same brand of oil currently being used.
   ☞ "2. Service data, Fuel and lubricant table"

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SPECIFICATIONS TABLES

Performance

Bucket type			Standard bucket
Bucket capacity		m^3 (ft^3)	0.458 (16.17)
Tipping load		kg (lb)	3115 (6867)
Rated loading mass		kg (lb)	1090 (2403)
Breakout force		kN (lbf)	32.9 (7400)
Raising time (load)		s	4.6
Lowering time		s	3.0
Bucket forward tilting time		s	3.0
Travel speed	Forward 1st	km/h (mph)	7.4 (4.6)
	Forward 2nd	km/h (mph)	11.6 (7.2)
	Reverse 1st	km/h (mph)	7.4 (4.6)
	Reverse 2nd	km/h (mph)	11.6 (7.2)
Maximum tractive force		kN (lbf)	49.2 (11060)
Gradeability		deg	30
Minimum turning radius	Bucket outside	m (ft)	2.295 (7.52)

Dimensions

Overall length in transport condition	Without teeth		mm (in)	3740 (147.2)
	With teeth		mm (in)	—
Overall width (body)			mm (in)	1770 (69.7)
Bucket width			mm (in)	1880 (74.0)
Overall height	Bucket on ground	Canopy	mm (in)	2270 (89.4)
		Cab	mm (in)	2270 (89.4)
	Max. raised height of bucket		mm (in)	4080 (160.7)
Crawler bearing length			mm (in)	1495 (58.9)
Track gauge			mm (in)	1320 (52.0)
Shoe width			mm (in)	450 (17.7)
Crawler bearing area			m^3 (ft^3)	1.346 (14.49)
Ground clearance of undercarriage			mm (in)	325 (12.8)
Bucket hinge pin height			mm (in)	3120 (122.9)
Dumping clearance (at 39-degree forward tipping)	Without teeth		mm (in)	2405 (94.8)
	With teeth		mm (in)	—
Dumping reach (at 39-degree forward tipping)	Without teeth		mm (in)	875 (34.4)
	With teeth		mm (in)	—
Bucket roll back angle	On ground		deg	31
Bucket dumping angle	Maximum height position		deg	39
Maximum digging depth			mm (in)	0 (0)

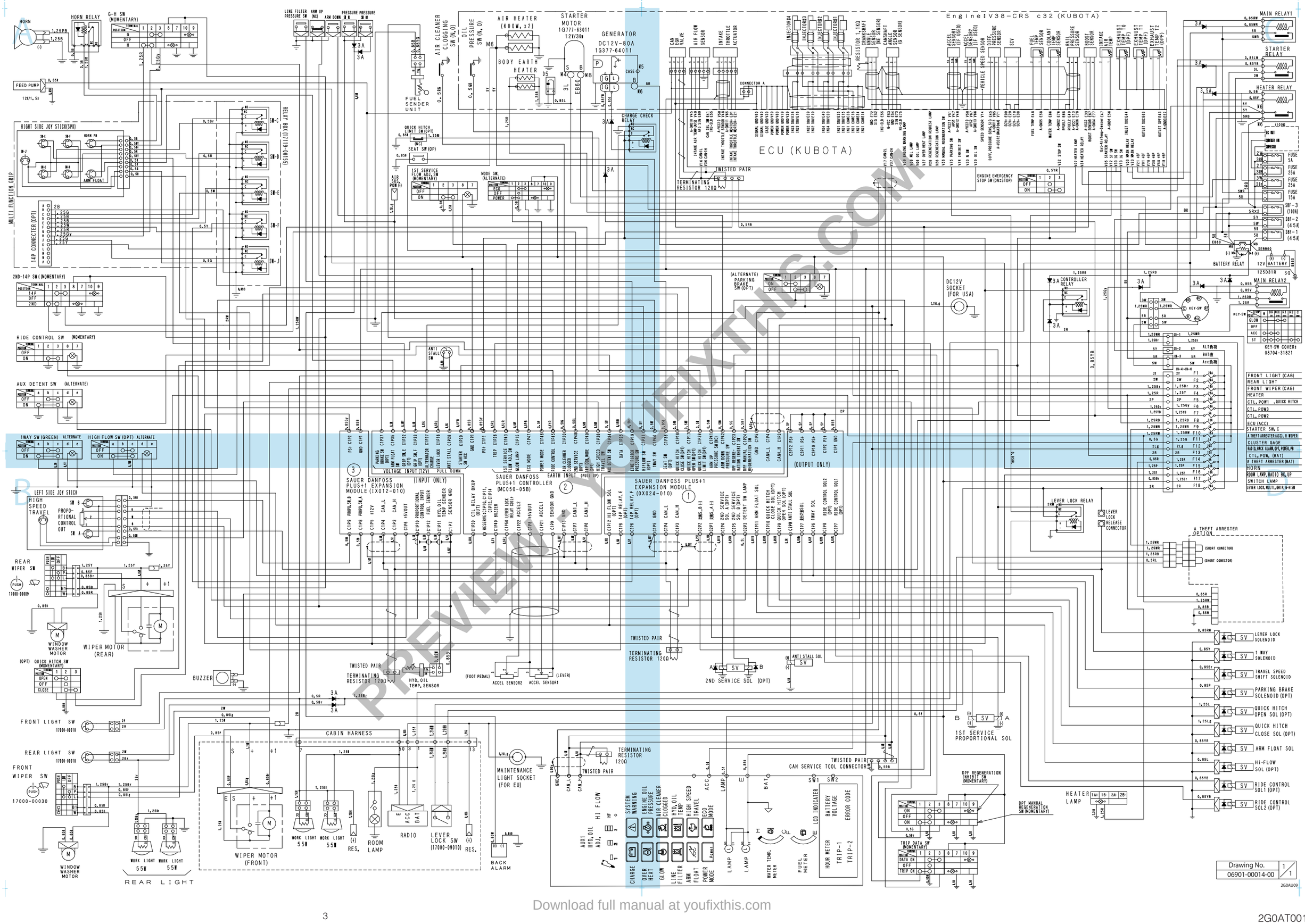
Mass

Gross machine mass	Canopy	kg (lb)	5410 (11930)
	Cab	kg (lb)	5500 (12130)
Operating mass	Canopy	kg (lb)	4680 (10320)
	Cab	kg (lb)	4770 (10520)
Machine mass	Canopy	kg (lb)	4610 (10150)
	Cab	kg (lb)	4700 (10350)
Shipping mass	Canopy	kg (lb)	4630 (10210)
	Cab	kg (lb)	4720 (10410)

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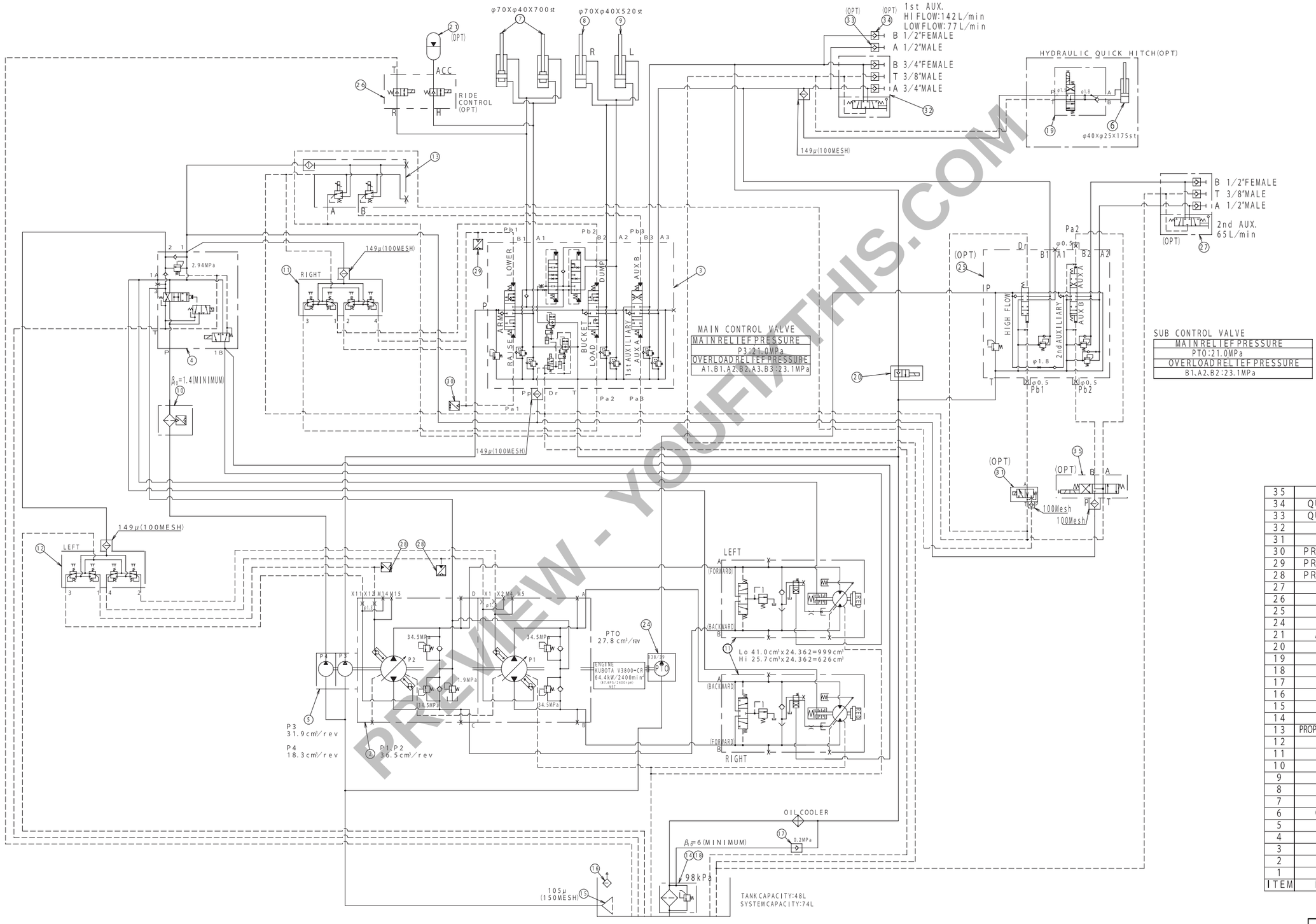
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Electrical Schematic Diagram (For CCV heater)



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High Flow



HYDRAULIC CIRCUIT DIAGRAM
In Compliance with EC(NRMM) EPA Tier4

35	SOLENOID VALVE
34	QUICK COUPLER
33	QUICK COUPLER
32	BLOCK COUPLER
31	SOLENOID VALVE
30	PRESSURE SWITCH
29	PRESSURE SWITCH
28	PRESSURE SWITCH
27	BLOCK COUPLER
26	SOLENOID VALVE
25	CONTROL VALVE
24	GEAR PUMP
21	ACCUMULATOR
20	SOLENOID VALVE
19	SOLENOID VALVE
18	RELIEF VALVE
17	CHECK VALVE
16	AIR BREATHER
15	SUCTION FILTER
14	RETURN FILTER
13	PROPORTIONAL SOLENOID VALVE
12	REMOTE C.V. (L)
11	REMOTE C.V. (R)
10	LINE FILTER
9	BUCKET CYLINDER (L)
8	BUCKET CYLINDER (R)
7	ARM CYLINDER
6	QUICK HITCH CYLINDER
5	GEAR PUMP
4	SUB VALVE
3	CONTROL VALVE
2	HST PUMP
1	TRAVEL MOTOR
ITEM	NAME OF PART

Drawing No.	1/1
06801-00410-1	

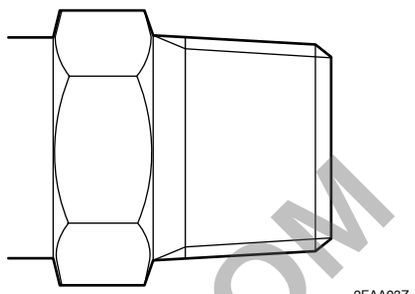
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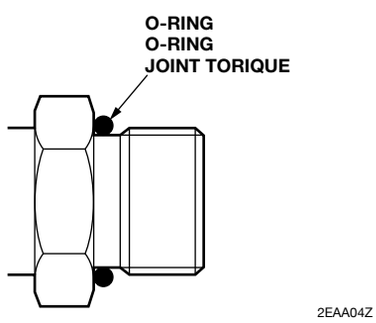
Joint for piping

Nominal thread diameter	Tightening torque			
	Steel		Cast steel	
	N·m	ft-lb	N·m	ft-lb
1/8	11.8 ±1.2	8.7 ±0.8	10.8 ±1.1	8.0 ±0.7
1/4	29.4 ±2.9	21.7 ±2.1	24.5 ±2.5	18.1 ±1.7
3/8	53.9 ±5.4	39.8 ±3.9	49.0 ±4.9	36.2 ±3.5
1/2	88.3 ±8.8	65.1 ±6.4	73.5 ±7.4	54.3 ±5.3
3/4	147.1 ±14.7	108.5 ±10.7	127.5 ±12.7	94.1 ±9.3
1	196.1 ±19.2	144.7 ±14.3	171.6 ±17.2	126.6 ±12.5


2EAA03Z

Joint for piping (O-ring seal type)

Nominal thread diameter (G)	Tightening torque	
	N·m	ft-lb
1/8	19.6 ±2.0	14.5 ±1.4
1/4	34.3 ±4.9	25.3 ±3.5
3/8	53.9 ±4.9	39.8 ±3.5
1/2	63.7 ±4.9	47.0 ±3.5
3/4	93.2 ±4.9	68.7 ±3.5
1	107.9 ±9.8	79.5 ±7.2
1-1/4	117.7 ±9.8	86.8 ±7.2
1-1/2	137.3 ±9.8	101.2 ±7.2



2EAA04Z

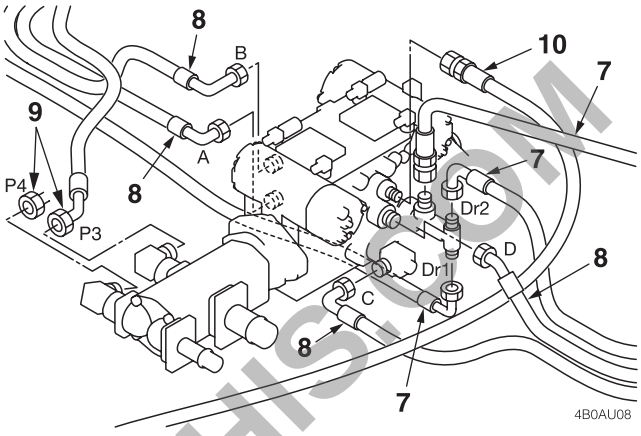
Nominal thread diameter (UNF)	Tightening torque	
	N·m	ft-lb
7/19-20	16.7 ±2.0	12.3 ±1.4
1/2-20	22.6 ±2.0	16.6 ±1.4
9/16-18	31.4 ±2.9	23.1 ±2.1
3/4-16	59.8 ±4.9	44.1 ±3.5
1-1/16-12	102.0 ±5.9	75.2 ±4.4
1-5/16-12	135.3 ±7.8	99.8 ±5.8
1-5/8-20	181.4 ±9.8	133.8 ±7.2

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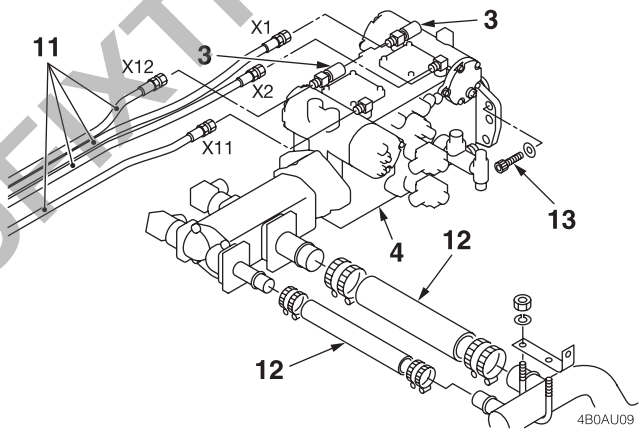
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Removing the hydraulic pump

1. Drain off the hydraulic oil from the hydraulic tank.
   ☞ "Removing the hydraulic tank"
2. Remove the floor frame.
   ☞ "Removing the floor frame"
3. Disconnect the drain hoses (7) and HST hoses (8).
4. Disconnect the discharge hose (9).
5. Disconnect the charge hose (10).



6. Disconnect the electrical wiring from the pressure switches (3).
7. Disconnect the pilot hoses (11).
8. Disconnect the suction hoses (12).
9. Remove the HST pump (4).
   a. Suspend the HST pump (4) temporarily.
   b. Take out the cap screws (13), and remove the HST pump (4).
   ➡ Cap screws: 255.8 N·m (188.8 ft.-lb)



Installing the hydraulic pump

To install, follow the same procedures as for removal but in the reverse order.

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TRAVELING

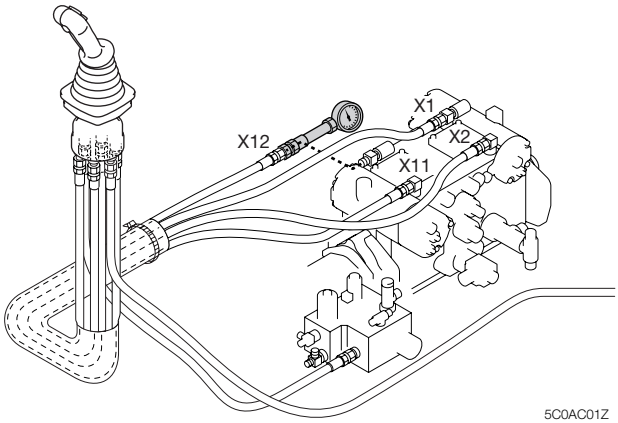
Traveling fails.

1	Check the charge pressure.	Pressure too low		Repair or replace.
	Normal			
2	Check the pilot valve.	Faulty		Repair or replace.
	Normal			
3	Check the HST pump discharge pressure.	Normal	The travel motor is faulty.	Repair or replace.
	Pressure too low			
4	Test the high-pressure relief valve using a replacement valve.	Problem solved		Repair or replace.
5	HST pump is faulty.			Repair or replace.

1. Check the charge pressure.
   Measure the charge pressure of the HST pump.
   ☞ "2. Service data, Performance criteria"
   Replace the HST pump if the charge pressure is too low.
   ☞ "4. Disassembly and assembly, HST pump"

2. Check the pilot valve.
   a. Disconnect the hose connecting the pilot valve (left) and the HST pumps (P1 and P2) from the pump side.
   b. Attach a pressure gauge to the hose that was disconnected.
   c. Operate the lever (traveling) and measure the pressure (charge pressure).
      • Replace the pilot valve if the pressure (charge pressure) is not at a normal level.
   ☞ "2. Service data, Performance criteria"

3. Check the HST pump discharge pressure.
   ☞ "2. Service data, Performance criteria"
   If the discharge pressure of the HST pump is not reading at a normal level, repair or replace the travel motor.



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Engine

Model				KUBOTA V3800CR-TE4B
Type				Vertical, water-cooled, 4-cycle, common rail type diesel
Number of cylinders – Internal diameter x stroke	Number of cylinders		Q'ty	4
	Internal diameter		mm (in)	100 (3.94)
	stroke		mm (in)	120 (4.72)
Total displacement			L (cu.in.)	3.8 (230)
Performance	Rated engine speed		min^{-1} (rpm)	2400 (2400)
	Rated horsepower	Gross	kW (hp)	68.6 (92.0)
		Net		64.4 (86.4)
	Maximum torque	Gross	N·m (ft.-lb.)	335.0 (247.1)/1500 (min^{-1})
		Net		325.0 (239.7)/1500 (min^{-1})
	Specific fuel consumption (at rated output)		g/kW·h (g/PS·h) (lb/hp-hr.)	251 (185) (0.41)
Fuel system	Speed governor			Electronically controlled
Lubrication system	Type			Trochoid pump
	Filter system			Centrifugal force, filter paper
	Cooling system			Water cooling
Air cleaner				Cyclone filter
Cooling system	Fan			Pusher type
	Radiator			Pressurized
Generator	AC/DC			Three-phase alternating current, self-rectifying
	Voltage		V	12
	Output		kW	0.96
Starting system	Voltage		V	12
	Output		kW	3
Battery	Type			125D31R
	Voltage		V	12
	Capacity		A·h	72
	Quantity			1

Hydraulic drive system

Pump	Model		Sauer-Danfoss-Daikin PVT4141
	Type		Variable displacement piston
	Displacement	cm^3 (cu.in.)	0 to 36.5 (0 to 2.23)
	Quantity		2
Travel motor	Model		Sauer-Danfoss-Daikin BMVT41D
	Type		Variable displacement piston
	Motor displacement	cm^3 (cu.in.)	25.7/41.0 (1.57/2.50)
	Quantity		2
Set pressure	Effective differential pressure	MPa (psi)	34.5 (5000)
Reduction gears			Epicycle reduction gear

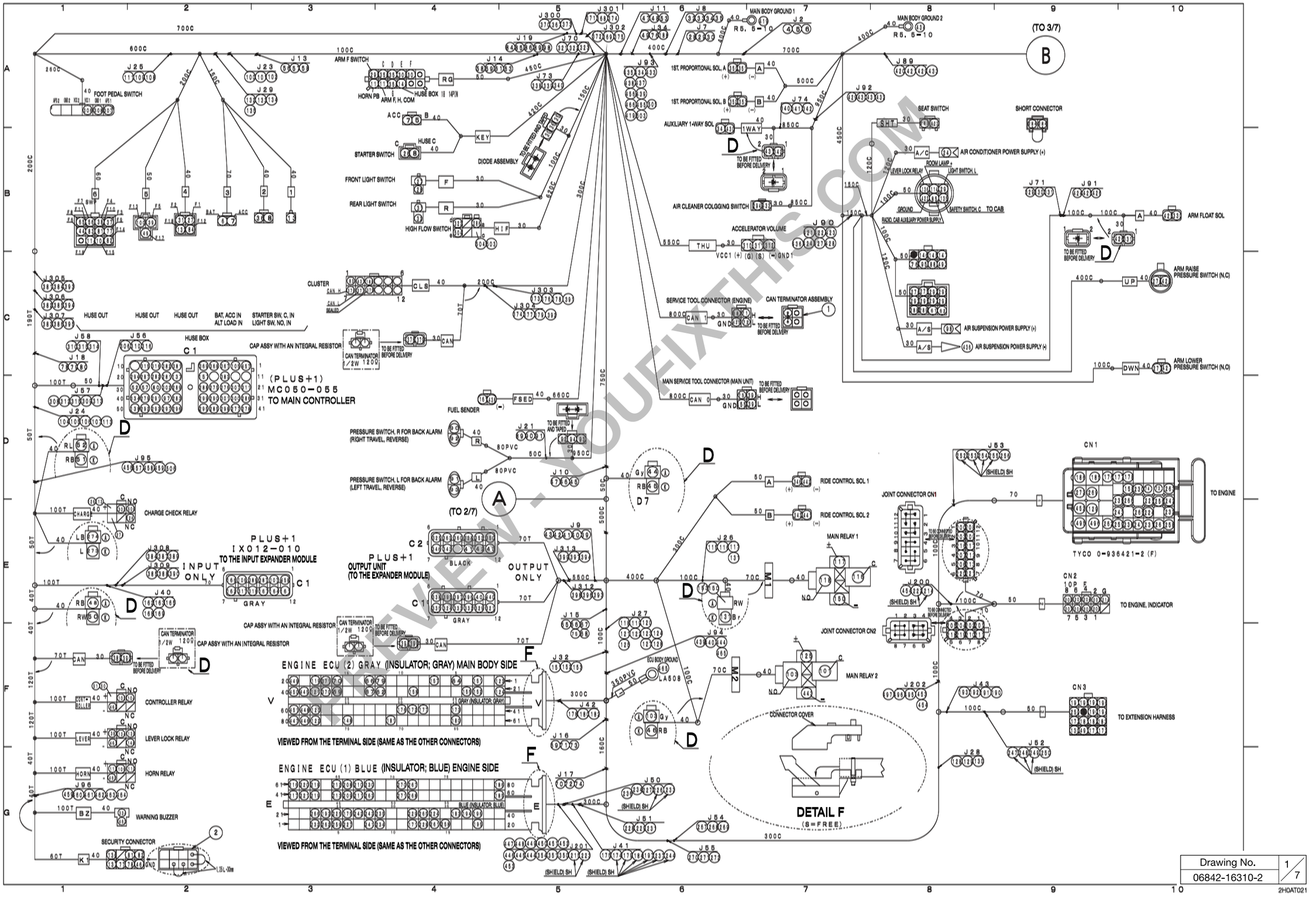
Brake device

Parking brake	Spring-loaded, wet type disc brake

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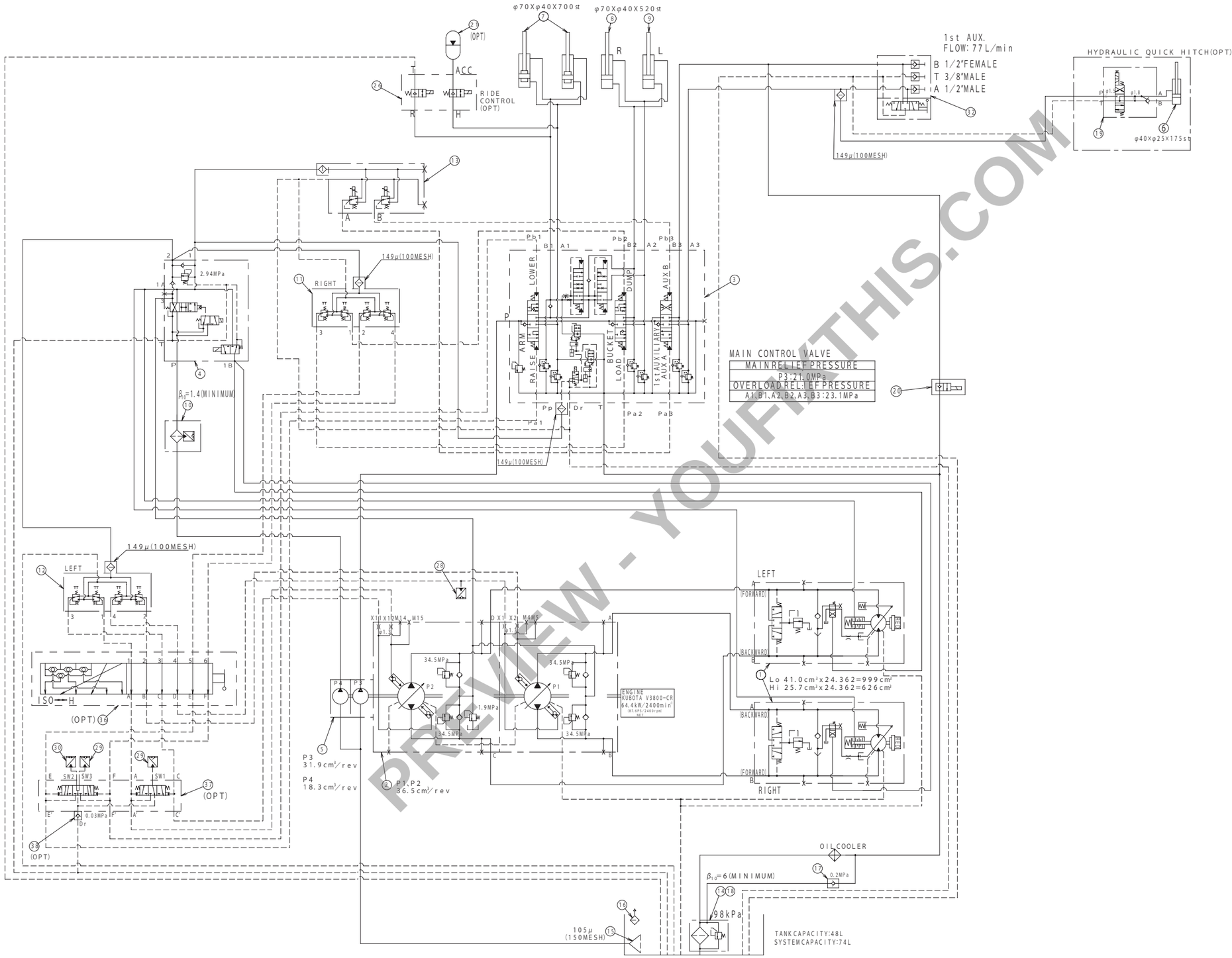
Main harness 06842-16310



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Standard (with selector valve)



ITEM	NAME OF PART
38	CHECK VALVE
37	SHUTTLE VALVE
36	SELECTOR VALVE
35	·
34	·
33	·
32	BLOCK COUPLER
31	·
30	PRESSURE SWITCH
29	PRESSURE SWITCH
28	PRESSURE SWITCH
27	·
26	SOLENOID VALVE
25	·
24	·
21	ACCUMULATOR
20	SOLENOID VALVE
19	SOLENOID VALVE
18	RELIEF VALVE
17	CHECK VALVE
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4	SUB VALVE
3	CONTROL VALVE
2	HST PUMP
1	TRAVEL MOTOR

HYDRAULIC CIRCUIT DIAGRAM
In Compliance with EC(NRMM) EPA Tier4

Drawing No.	1/1
06801-00430-1	

2F0AT03

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Bolts and nuts (JIS strength category 10.9)

Thread	Size × pitch	Tightening torque			
		General tightening points		Special tightening points	
		N·m	ft-lb	N·m	ft-lb
Coarse	M6 × 1.0	9.8 ±0.5	7.2 ±0.4	11.8 ±1.1	8.7 ±0.4
	M8 × 1.25	22.6 ±1.1	16.6 ±0.8	26.5 ±2.5	19.5 ±0.9
	M10 × 1.5	47.1 ±2.4	34.7 ±1.7	54.9 ±4.9	40.5 ±2.0
	M12 × 1.75	83.4 ±4.1	61.5 ±3.0	97.1 ±7.4	71.6 ±3.5
	M14 × 2.0	134.4 ±6.7	99.1 ±4.9	155.9 ±12.7	115.0 ±5.7
	M16 × 2.0	207.9 ±10.4	153.3 ±7.7	241.2 ±17.2	177.9 ±8.9
	M20 × 2.5	410.9 ±20.5	303.1 ±15.1	475.6 ±23.7	350.8 ±17.5
Fine	M8 × 1.0	24.5 ±1.2	18.1 ±0.9	28.4 ±1.4	21.0 ±1.0
	M10 × 1.25	50.0 ±2.5	36.9 ±1.8	58.8 ±2.9	43.4 ±2.2
	M12 × 1.5	87.3 ±4.3	64.4 ±3.2	102.0 ±5.1	75.2 ±3.8
	M14 × 1.5	135.3 ±6.8	99.9 ±5.0	157.9 ±7.8	116.5 ±5.8
	M16 × 1.5	220.6 ±11.0	162.7 ±8.1	256.0 ±12.7	188.8 ±9.4
	M20 × 1.5	452.1 ±22.6	333.4 ±16.6	524.7 ±26.1	387.0 ±19.2

1. General tightening points (non-lubricated)
   All securing points that have no special tightening torque specified in this manual and that are not special tightening points.
2. Special tightening points (grease with molybdenum disulfide applied)
   Points where a specific tightening torque is specified in this manual.
3. Points where thread-locking compound should be applied (ThreeBond #1324).
4. If a tightening torque value is specified in this manual for a point not listed in the table above, follow the specification in the manual.
5. To tighten multiple bolts and nuts evenly, alternately tighten opposite bolts/nuts as a pair.

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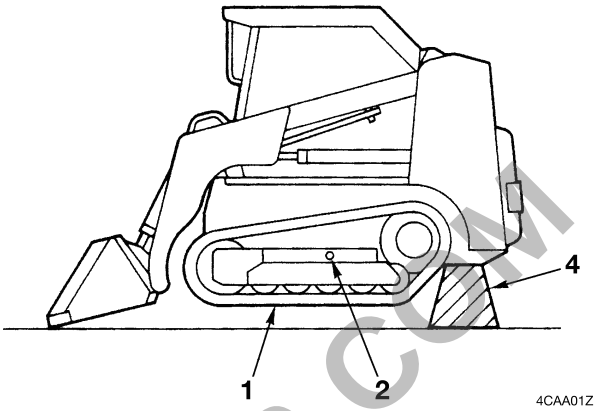
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TRAVEL SYSTEM

Removing the crawler belt

1. Loosen the tension of the crawler (1).
   - When loosening the check valve (2), do it slowly. Stop loosening it once grease starts to come out. If no grease comes out, slightly move the machine forward and backward.

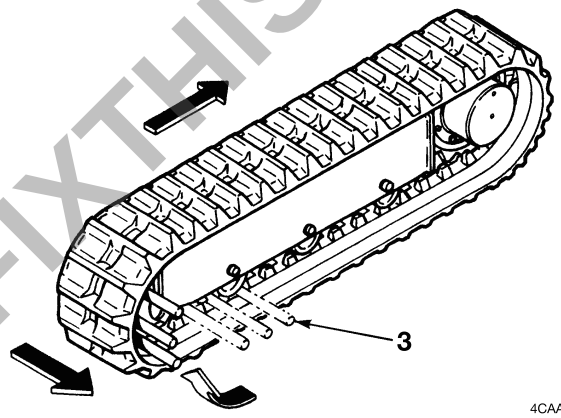
   Check valve: 59 N·m (43.5 ft.-lb)
2. Place the block (4) under the machine to support it, and raise the machine using the arm and bucket.



4CAA01Z

3. Fit the iron pipe (3) into the crawler and then rotate the sprocket in the reverse direction.
4. Once the pipe reaches the side of the idler, stop rotating the sprocket.
5. Slide the crawler to the side, and remove it.

   Crawler belt: 255 kg (562 lb)

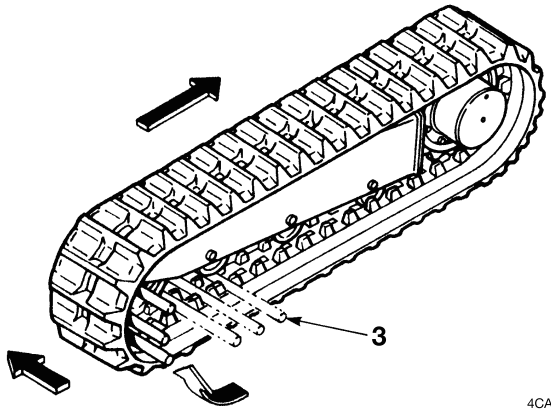


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Installing the crawler belt

1. Place the block (4) under the machine to support it, and raise the machine using the arm and bucket.
2. Set the crawler (1) on the frame.
   - Set the crawler so that it is engaged with the sprocket.
3. Fit the iron pipe (3) into the crawler and then rotate the sprocket in the reverse direction.
4. Once the pipe (3) reaches the side of the sprocket, stop rotating the sprocket.
5. Slide the crawler to a position where it can be properly fitted with the idler.
6. Make sure that the crawler is firmly engaged with the sprocket and the idler and then adjust the crawler tension.

   “2. Service data, Performance criteria”



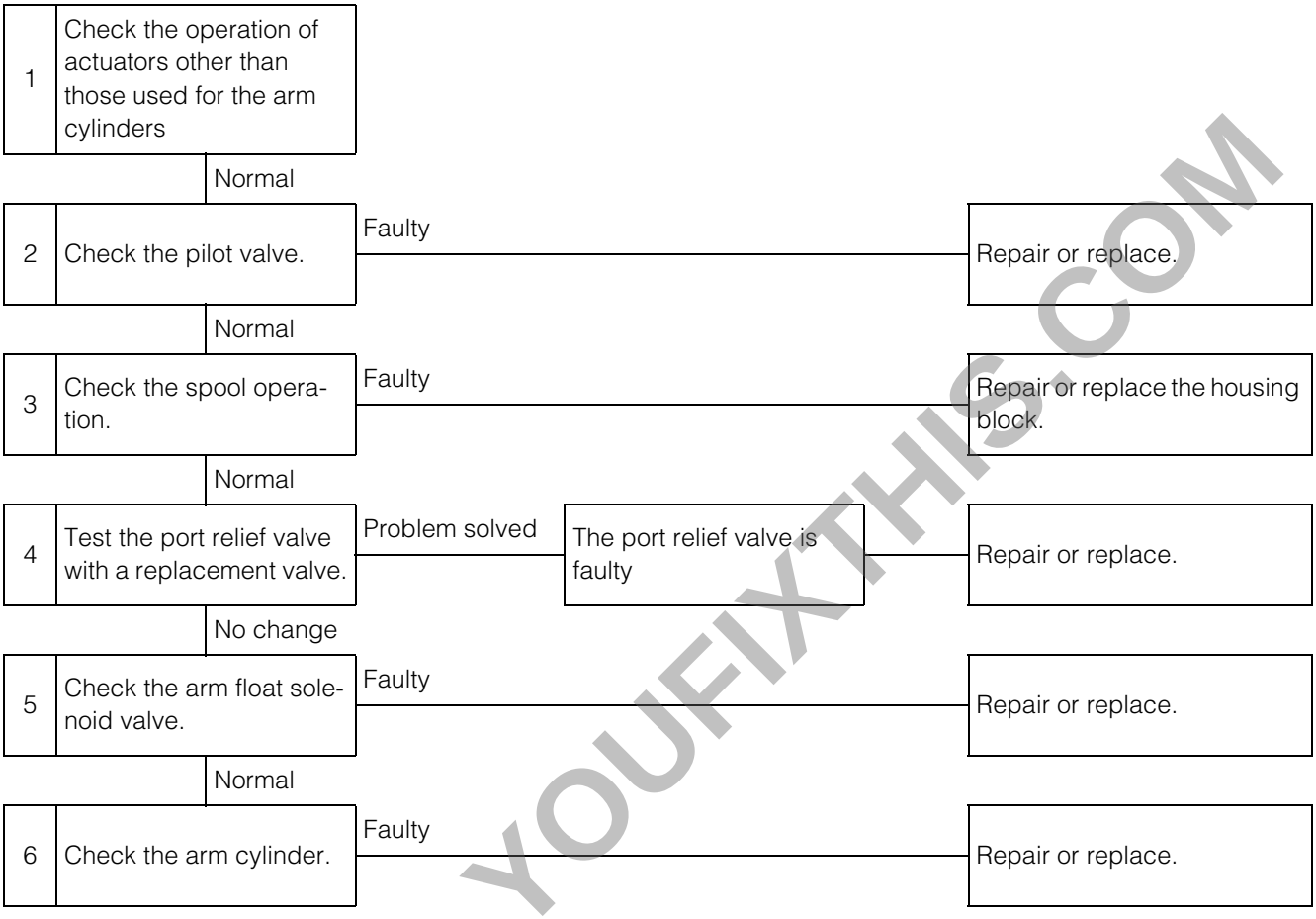
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LIFT ARM

Arm cylinder does not move.



1. **Check the operation of actuators other than those used for the arm cylinders.**
   Check the operation of the lift arm only as listed in the table below.
   If operation is faulty, check the main relief valve and the hydraulic pump (P3).
   ☞ "2. Service data, Performance criteria"
   ☞ "Overall Machine, No operation is possible"

Lever to operate	Device to check	
Bucket	Relief valve R3	Pump P3

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Undercarriage

Suspension system			Rigid type
Roller, Idler	Seal system		Floating seal
	Carrier roller (one side)	Q'ty	—
	Track roller (one side)	Q'ty	4
Crawler	Track adjuster		By injecting grease
	Type		One-piece design, single grouser, rubber crawler
	Grouser height	mm (in)	35 (1.38)
	Number of shoes (one side)	Q'ty	50 (lugs)
	Pitch	mm (in)	100 (3.94)
	Shoe width	mm (in)	450 (17.72)

Operating device

Cab/canopy	Location		Center of machine
	Type		ROPS/FOPS (level 2) canopy & cab
Operator's seat			Suspension seat, adjustable
Control lever and pedal	Lever	Q'ty	2 (Travel, Attachments)
	Pedal	Q'ty	1 (Accelerator, Optional)
Instruments			Cluster gauge (12 V): Water temperature gauge, Fuel gauge, Hourmeter, Charge, Engine oil, Air cleaner, Emergency, Overheat, Arm-float, Line filter, Glow, 2nd-speed pilot, Power mode, Eco-mode, Hydraulic oil temperature, auxiliary line flow rate select
Lighting device	Front light		12 V, 55 W x 2
	Rear light		12 V, 55 W x 2
Others	Horn	Q'ty	1
	Back-up buzzer	Q'ty	1
	Inside rear view mirror	Q'ty	2
	Rear view mirror	Q'ty	1

Working equipment

Bucket blade type		Without teeth
Bucket teeth	Type	—
	Quantity	—
Auto adjustment mechanism		Hydraulic leveling device for bucket raising

Hydraulic system

Arm cylinder	Type		Independent piston
	Quantity		2
	Internal diameter	mm (in)	70 (2.76)
	Stroke	mm (in)	700 (27.56)
Bucket cylinder	Type		Independent piston
	Quantity		2
	Internal diameter	mm (in)	70 (2.76)
	Stroke	mm (in)	520 (20.47)
Hydraulic pump	Type		Double gear pump
	Displacement	cm^3 (cu.in.)	31.9 + 18.3 (1.95 + 1.12)
Control valve	Type		Hydraulic pilot operated
	Set pressure	MPa (psi)	2.9 (421)

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