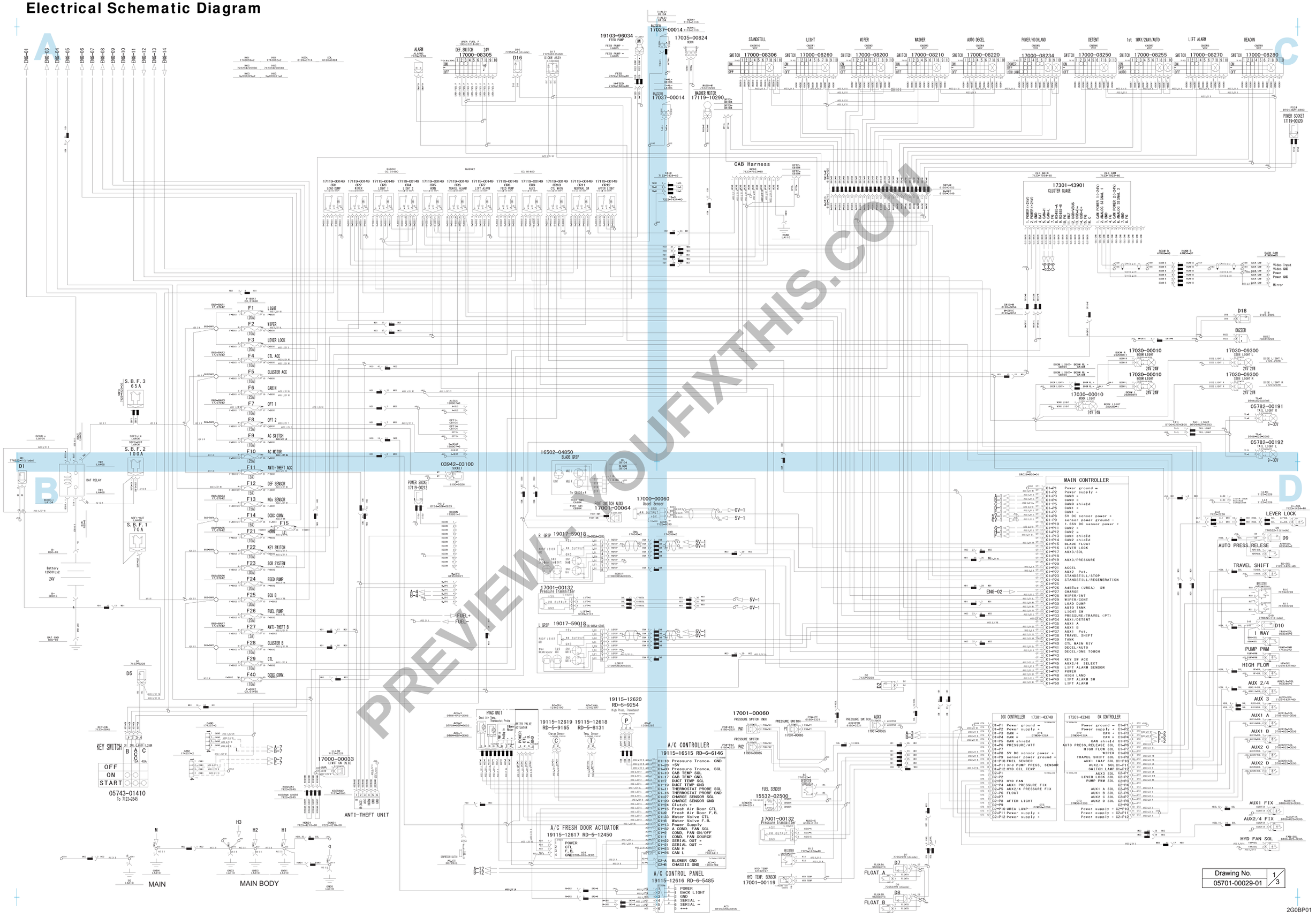
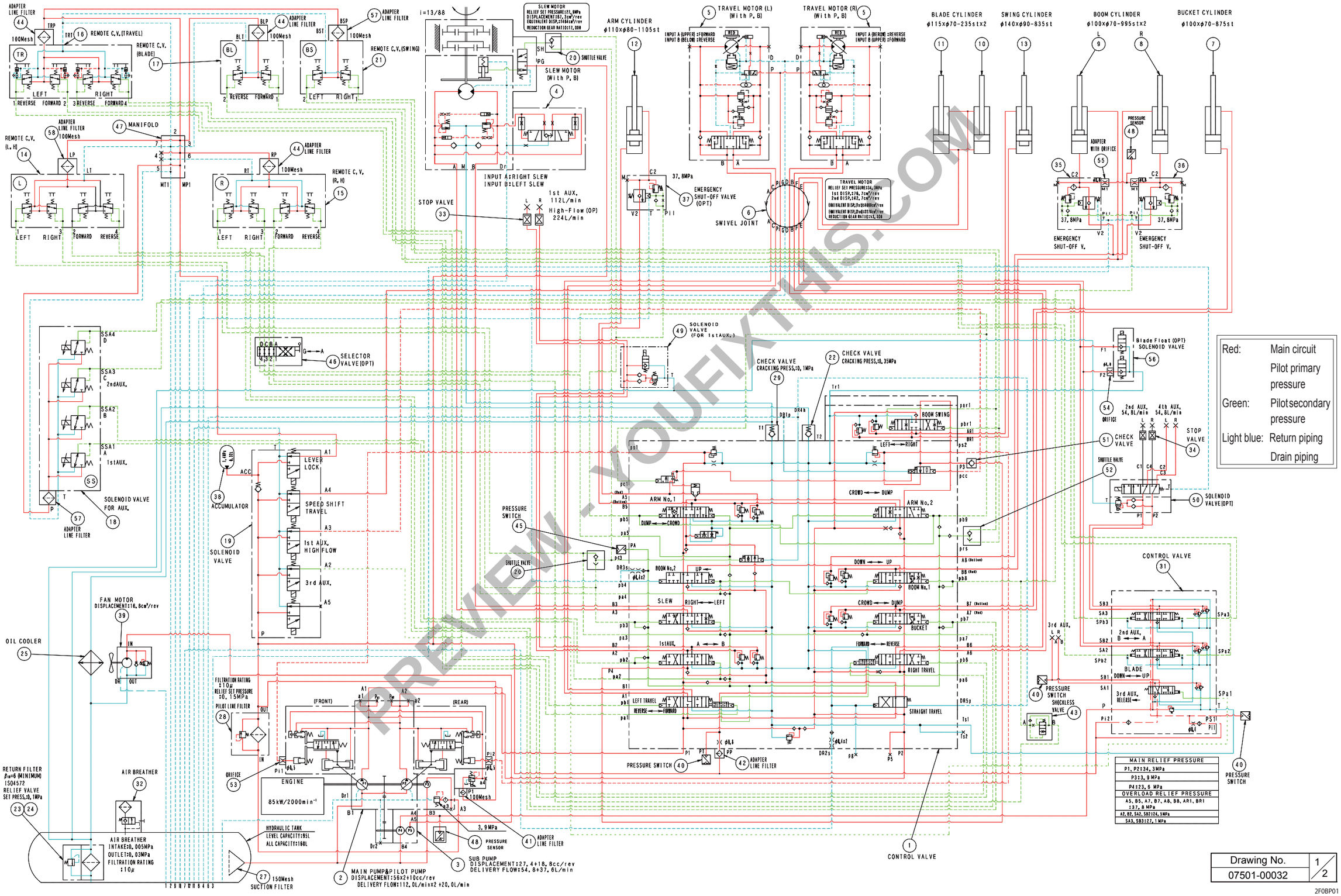
Electrical Schematic Diagram



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HYDRAULIC CIRCUIT DIAGRAM



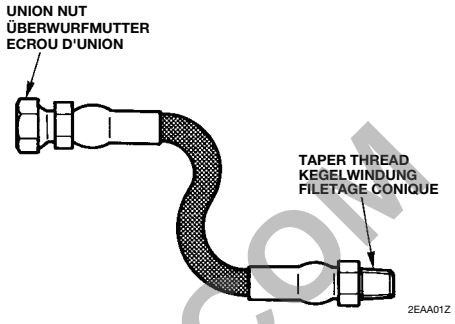
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TIGHTENING TORQUE

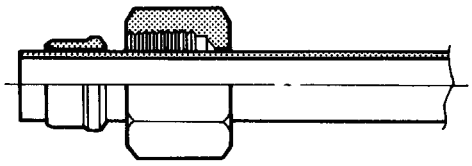
Hydraulic hose

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

Outer diameter of pipe (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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Removing the upper frame

1. Remove the hoe attachment.
   ☞ “Removing the attachment”
2. Remove the cab.
   ☞ “Removing the cab”
3. Remove the covers.
   ☞ “Removing the covers”
4. Disconnect the hydraulic hoses from the swivel joint.
   ☞ “Removing the swivel joint”
5. Remove the bolts and remove the swivel joint stopper.
   ☞ “Removing the swivel joint”
   Bolt: 339 N·m (250 ft-lb.)
   ThreeBond #1324, or an equivalent
6. Disconnect the elbow (1) from the slew bearing.
7. Remove all the mounting bolts for the outer race of the slew bearing except the two at the front of the machine and two at the rear.
   • When installing the slew bearing, be sure to align it with the positions of the grease supply port and the reamer bolt.
   ☞ “Removing the slew bearing”
   Bolt: 339 N·m (250 ft-lb.)
   Bolt: ThreeBond #1324, or an equivalent
8. Suspend the upper frame and remove the remaining bolts while keeping the upper frame in balance.
9. Lift up the upper frame, and remove it.

Installing the upper frame

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

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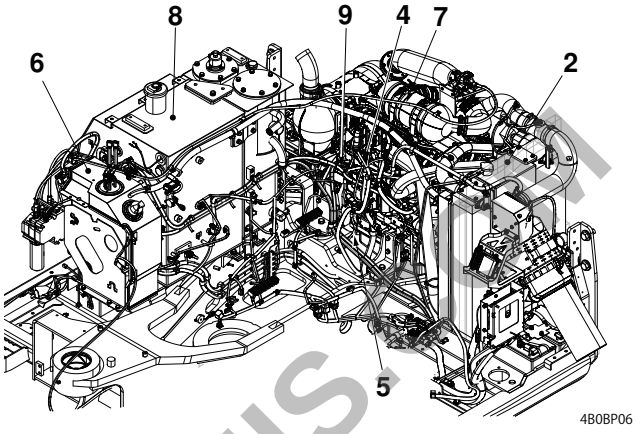
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Removing the engine

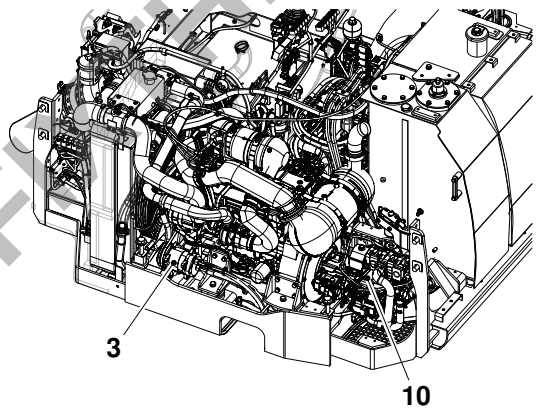
The numbers in parentheses ( ) after the names of parts throughout this document do not correspond to the numbers in the construction diagrams or parts lists.

1. Disconnect the battery ground cable from the machine frame.
   ☞ "Removing the battery"
2. Remove the engine hood, the side covers Right and Left, and the engine cover (Front).
   ☞ "Removing the covers"
3. Remove the counterweight.
   ☞ "Removing the upper frame"
4. Remove the radiator assembly (2).
   ☞ "Removing the radiator"
5. Disconnect the hoses from the compressor (3).
   - Place caps on the ends of the disconnected hoses.
   - As the refrigerant gas escapes, add gas during installation.

   ☞ 6. Air conditioner
6. Disconnect the engine electrical wiring (4) from the engine.
   - Attach identification labels to each of the wires.
7. Disconnect the engine ground cable (5) from the machine frame.
8. Disconnect the hose (7) from the urea pump (6) at the engine side.
9. Disconnect the fuel hose (9) of the fuel tank (8) at the engine side.
   ☞ 4. Drive system, Fuel tank
10. Remove the hydraulic pump (10).
    ☞ "Removing the hydraulic pump"
11. Take out the nuts, and suspend the engine.



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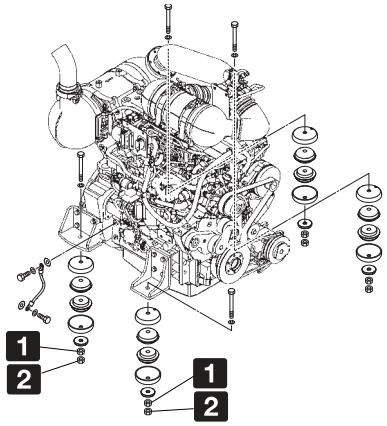


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Installing the engine

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

1 Nut: 193 N·m (142 ft-lb.)
2 Nut: 241 N·m (178 ft-lb.)
kg: 424 kg (934 lb.)

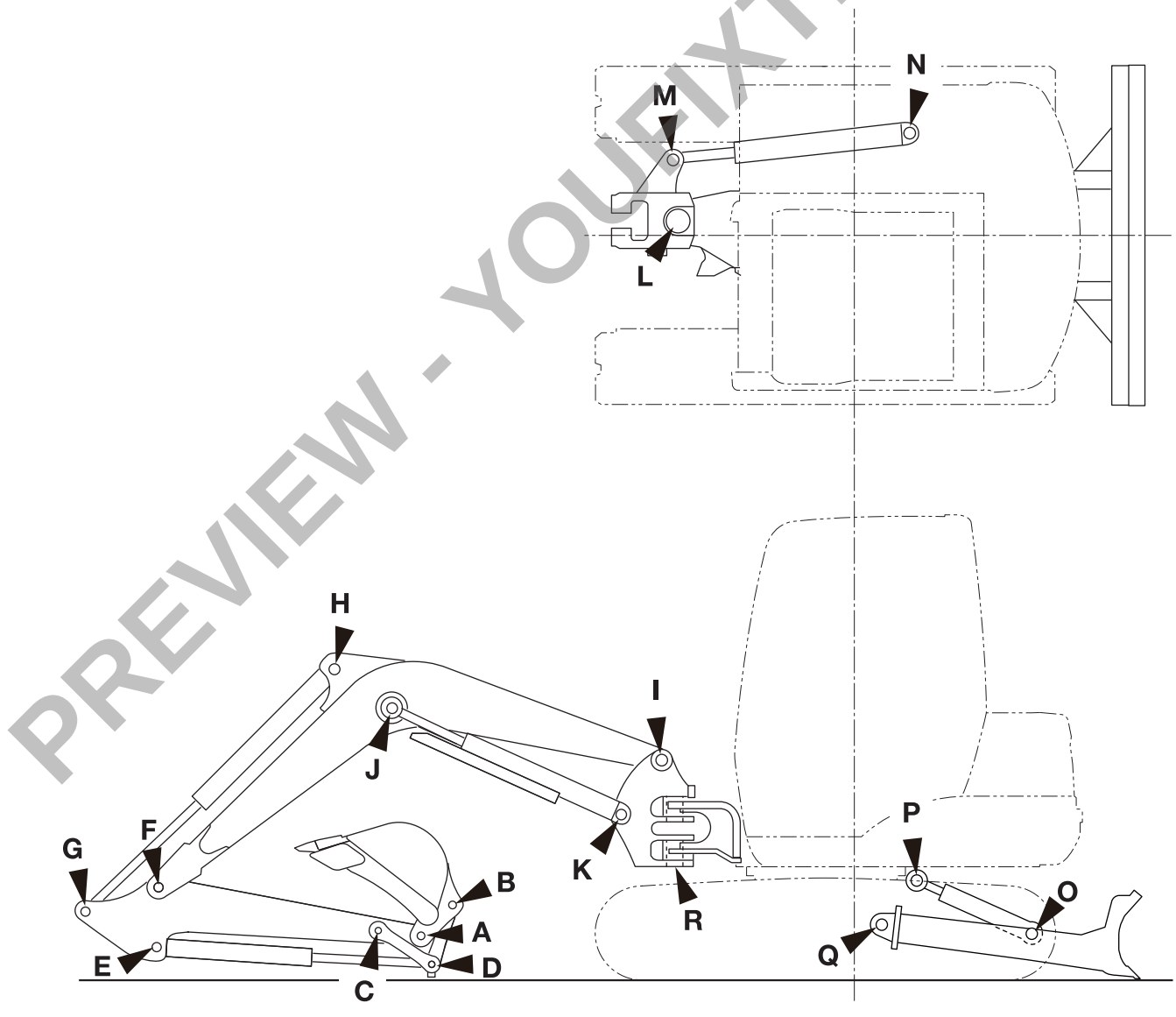


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Clearance for pin and bushing



4A0BP02

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SPECIFICATION TABLES

Operating mass	Rubber crawler	Canopy	kg (lb)	–
		Cab	kg (lb)	15095 (33280)
	Steel crawler (500W)	Canopy	kg (lb)	–
		Cab	kg (lb)	15165 (33435)
Rated horse power	Net(ISO 14396)		kW (hp)	85 (113.9)
			min^{-1} (rpm)	2000 (2000)
	Net(ISO 9249/ SAEJ1349)		kW (hp)	
			min^{-1} (rpm)	
Bucket capacity	Heaped capacity		m^3 ($ft.^3$)	0.45 (15.89)
	Struck capacity		m^3 ($ft.^3$)	0.34 (12.01)

Performance

Standard loading mass			kg (lb)	610 (1345)
Slew speed			min^{-1} (rpm)	10.8 (10.8)
Travel speed	Rubber crawler	1st	km/h (mph)	3.1 (1.93)
		2nd	km/h (mph)	5.5 (3.42)
	Steel crawler	1st	km/h (mph)	–
		2nd	km/h (mph)	–
Maximum tractive force			kN (lbf)	145 (32600)
Gradeability			%	70
			deg.	35
Ground pressure	Rubber crawler	Canopy	kPa (psi)	–
		Cab	kPa (psi)	47.1 (6.83)
	Steel crawler	Canopy	kPa (psi)	–
		Cab	kPa (psi)	–
Noise level	Sound-power level		dB (A)	98
	Sound-pressure level*		dB (A)	–

*: At the operator location as stipulated by ISO 6396: 2008.

Dimensions of completed machine

Overall length	Standard arm		mm (in.)	7710 (303.5)
	Middle arm		mm (in.)	7770 (305.9)
	Long arm		mm (in.)	7805 (307.3)
Overall width	During normal operation		mm (in.)	2530 (99.5)
	Track retracted		mm (in.)	–
Overall height	Rubber crawler	Canopy	mm (in.)	–
		Cab	mm (in.)	2960 (116.5)
	Steel crawler	Canopy	mm (in.)	–
		Cab	mm (in.)	–

Dimensions of base machine

Overall length of base machine		mm (in.)	3800 (149.6)
Overall width of base machine	During normal operation	mm (in.)	2530 (99.5)
	Track retracted	mm (in.)	–
Upper structure overall width		mm (in.)	2500 (98.3)

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LUBRICANT AND FUEL CHART

Select the appropriate fuel, lubricant, and grease according to temperature by referring to the table below.

- Regardless of the specified time, change the oil if it becomes too dirty or degraded.
- When refilling, never mix oils of different brands. If a brand is to be changed, replace all of the fuel/oil.

Part	Type	Selection by air temperature -4 14 32 50 68 86 104°F -20 -10 0 10 20 30 40°C	When to change/ replenish	Capacity
Engine oil pan	Diesel engine oil list DQC IV LA		500 hours or every 1 year	Upper limit: 10 L (10.6 US qt.) Lower limit: 9 L (9.5 US qt.)
Hydraulic tank	Takeuchi genuine hydraulic oil 46	ISO VG46	Every 4000 hrs.***	Total amount of oil: 248.3 L (65.6 US gal.) Tank capacity: 106.5 L (28.1 US gal.)
	Anti-wear hydraulic oil	ISO VG32 ISO VG46 ISO VG68	Every 2000 hrs.***	
Engine cooling system	Cooling water (water + coolant)** SAE-J814C, J1941, J1034, or J2036 ASTM-D6210 or D4985 (USA)	Mixture of 50% coolant Mixture of 30% coolant	1000 hours or every 2 years	20 L (21.1 US qt.)
Slew reduction gear	Gear oil API: GL-4	SAE 90	Every 1000 hrs. after the first 250 hrs.*	5.3 L (5.6 US qt.)
Travel reduction gear	Gear oil API: GL-4	SAE 90	Every 1000 hrs. after the first 250 hrs.*	2.1 L (2.2 US qt.)
Carrier roller	Engine oil API: CD class	SAE 30	–	0.05 L (1.7 fl. oz.)
Track roller	Gear oil API: GL-3	ISO VG 220	–	0.29 L (9.8 fl. oz.)
Idler	Engine oil API: CD class	SAE 10W-30	–	0.20 L (6.8 fl. oz.)
Slew bearing	Lithium grease EP-2 NLGI No. 2	–	Every 500 hrs.	As required
Working equipment			Daily or every 10 hrs.	
Levers			When required	

* If the ratio of traveling time to total operating time is high, replace the gear oil earlier than the specified time.

** For water, use tap water (soft). Do not use well or river water.
When the ambient temperature drops below 0°C (32°F), add coolant (antifreeze). Follow the coolant manufacturer's instructions to determine the mixture ratio.

*** The replacement interval for hydraulic oil depends on the type of oil being used. New machines are shipped from the factory with the Takeuchi genuine hydraulic oil 46. This manual describes when to replace the hydraulic oil assuming that this Takeuchi oil is used. When a conventional anti-wear hydraulic oil is used, replace it every 2000 hours.

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ENG-01 ENG-03 ENG-04 ENG-05 ENG-06 ENG-07 ENG-08 ENG-09 ENG-10 ENG-11 ENG-12 ENG-13 ENG-14

MO1 1743059-2 HO1 1743062-2 HSOL 6189-0714 SOL 6188-0494
MO2 7222-4220-30 HO2 7123-4220-40
MO3 0-936429-2 HO3 0-936421-2

ALARM
ALARM2 7123-2228

UREA FUEL P 190-31214-001
DEF, SWITCH 24V
17000-08305
ON / OFF

D16 776522-1(diode)
D16

D17 7123-9135-50
DIODE ASSY

19103-96034 FEED PUMP
FEED PUMP + LA405
FEED PUMP - LA405
FEED 7222-1424-40
H-FEED 7123-1424-40

BUZZER 17037-
BUZZER 17037

R-BOX1 03.01480
R-BOX2 03.01480

17119-00149 CR1 LOAD DUMP
17119-00149 CR2 WIPER
17119-00149 CR3 LIGHT 1
17119-00149 CR4 LIGHT 2
17119-00149 CR5 HORN
17119-00149 CR6 TRAVEL ALARM
17119-00149 CR7 LIFT ALARM
17119-00149 CR8 FEED PUMP
17119-00149 CR9 AUX3
17119-00149 CR10 CTL MAIN
17119-00149 CR11 NEUTRAL SW
17119-00149 CR12 AFTER LIGHT

F-BOX1 03.01460

BUS-BAR1 17.07942
F1 LIGHT (20A)
F2 WIPER (10A)
F3 LEVER LOCK (20A)

BUS-BAR2 17.07942
F4 CTL ACC (10A)
F5 CLUSTER ACC (10A)
F6 CABIN (25A)

BUS-BAR3 17.07942
F7 OPT 1 (10A)
F8 OPT 2 (15A)
F9 AC SWITCH (10A)
F10 AC MOTOR (25A)
F11 ANTI-THEFT ACC

S.B.F.3 65A
S.B.F.2 100A
SBF3 7122-4123-30
SBF2-IN LA406
SBF2-OUT LA406

A-SUS 180907-0
OPT1+ CB104
OPT1- CB104
S-HEAT 180907-0

03942-03100 SOCKET

16502-04850 BLADE GRIP

D1 776522-1(diode)

T-AL2 CB104
T-AL2 CA104
T-AL2+
T-AL-
TA-R

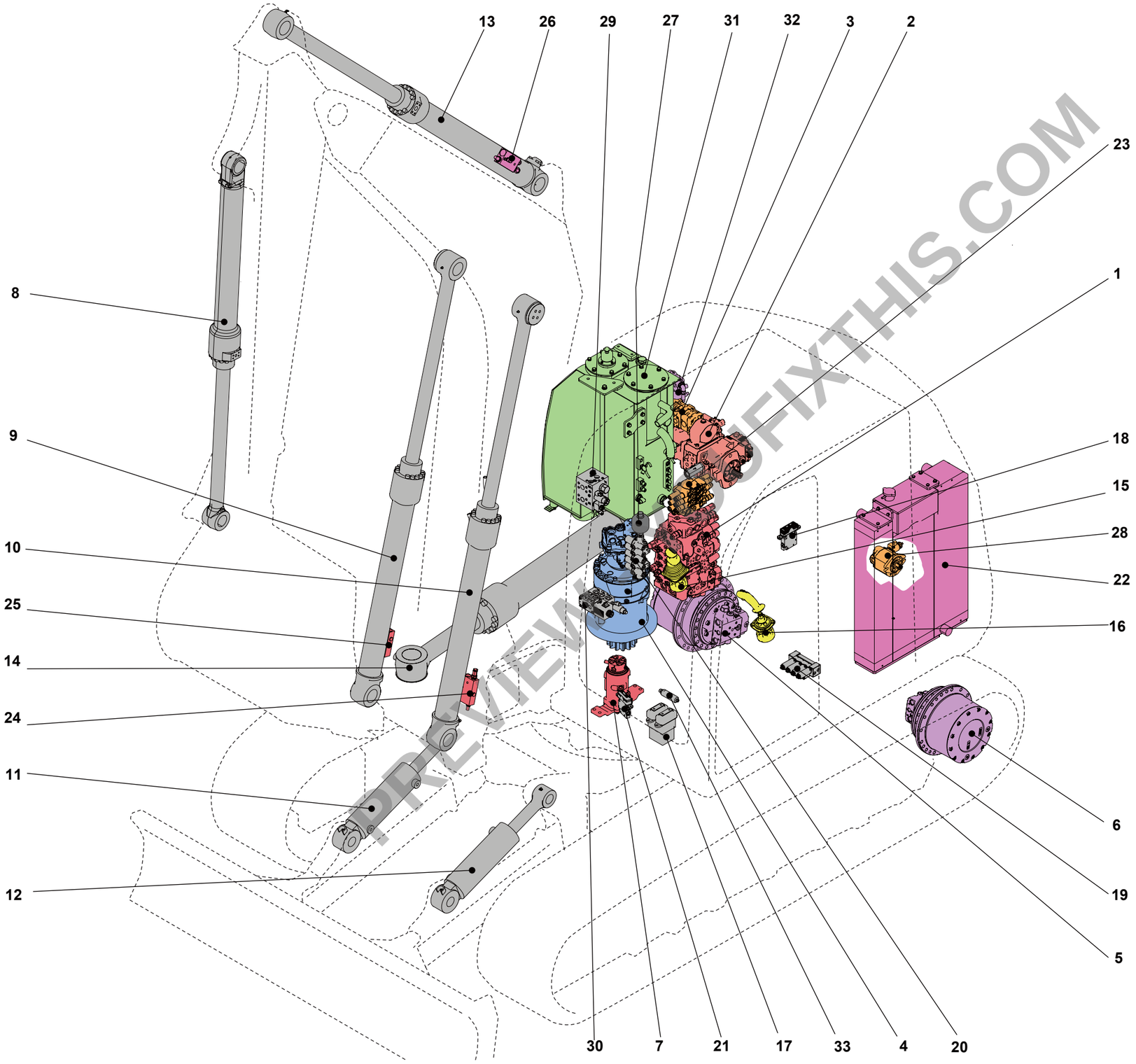
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2H0BP02

2G0BP00

HYDRAULIC DEVICE LAYOUT DIAGRAM



1. Control valve
2. Hydraulic pump (Main)
3. Hydraulic pump (Sub)
4. Slew motor
5. Travel motor (Right)
6. Travel motor (Left)
7. Swivel joint
8. Bucket cylinder
9. Boom cylinder (Right)
10. Boom cylinder (Left)
11. Blade cylinder (Right)
12. Blade cylinder (Left)
13. Arm cylinder
14. Swing cylinder
15. Pilot valve (Right)
16. Pilot valve (Left)
17. Pilot valve (Travel)
18. Pilot valve (Blade)
19. Solenoid valve (1st/2nd AUX)
20. Solenoid valve (Lever lock, 2nd speed, 1st AUX, 3rd AUX switching)
21. Pilot valve (Swing)
22. Oil cooler
23. Control valves (3rd AUX, blade, 2nd AUX)
24. Emergency shut-off valve (Boom, left)
25. Emergency shut-off valve (Boom, right)
26. Emergency shut-off valve (Arm)
27. Accumulator
28. Fan motor
29. Solenoid valve (1st AUX)
30. Solenoid valve (4th AUX)
31. Hydraulic tank
32. Line filter
33. Shockless valve

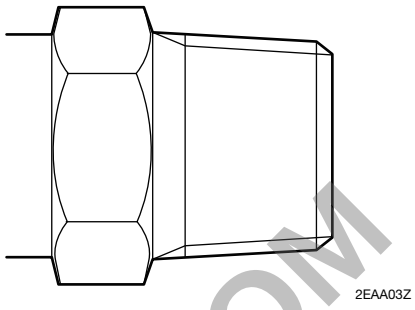
2H1BP01

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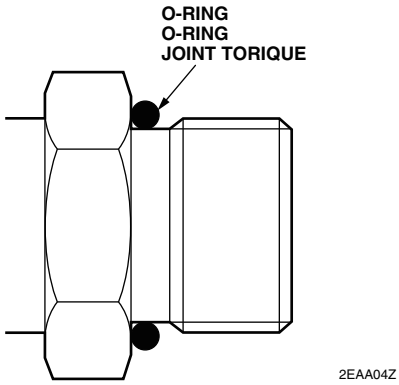
Joint for piping

Nominal thread diameter (R)	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



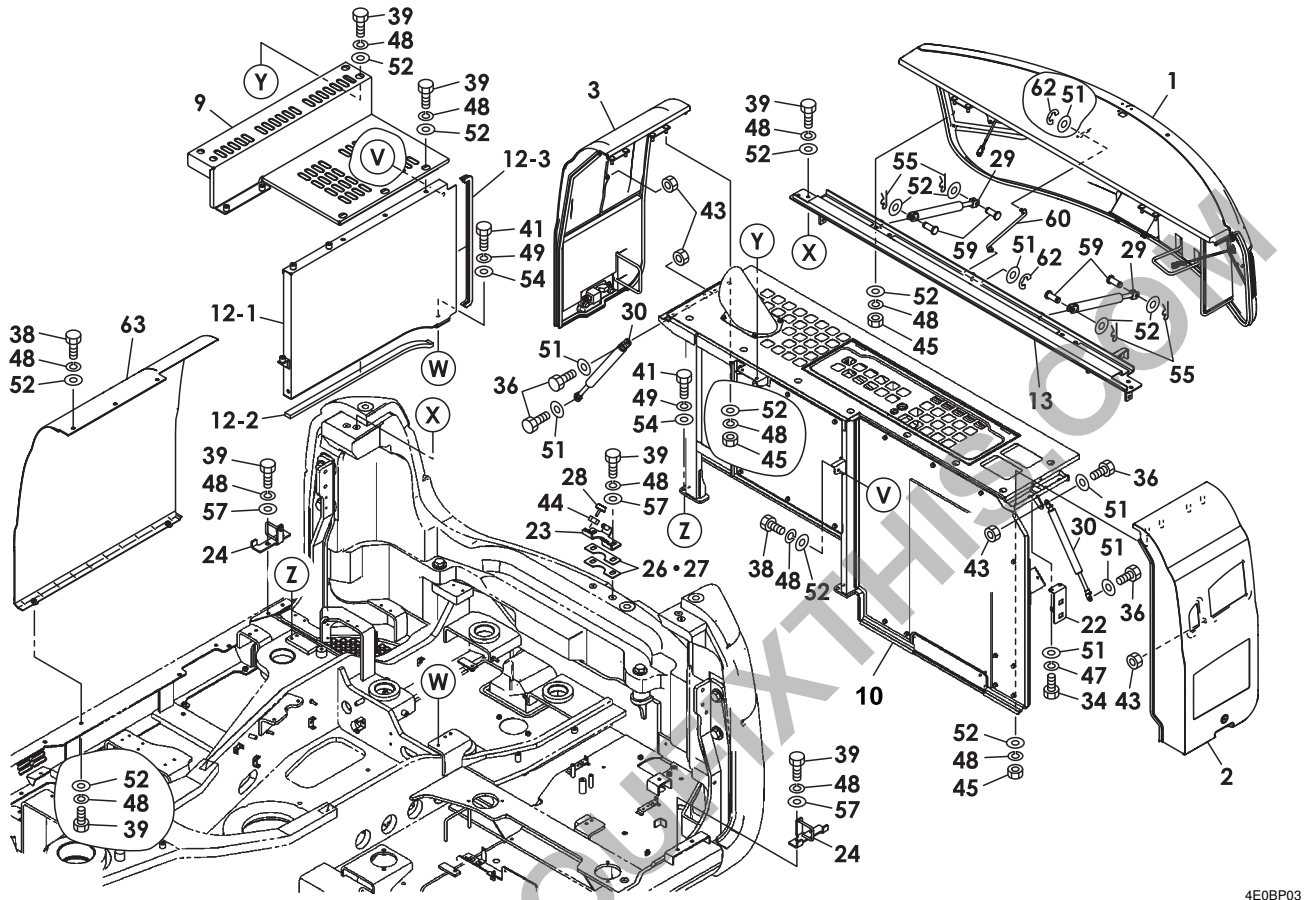
2EAA04Z

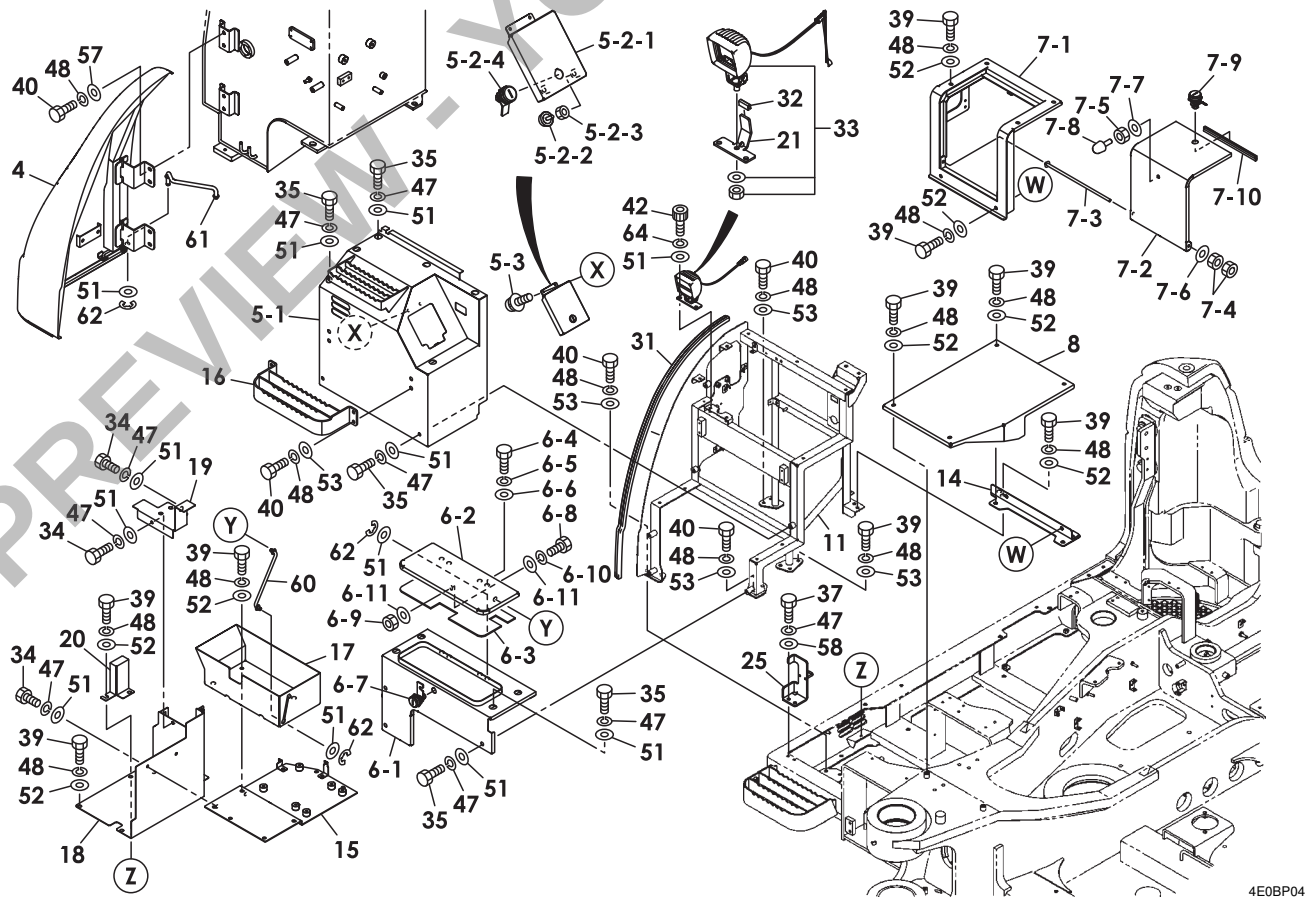
Nominal thread diameter (UNF)	Tightening torque	
	N·m	ft.-lb
7/19–20	16.7 ± 2.0	12.3 ± 1.4
1/2–20	22.6 ± 2.0	16.6 ± 1.4
9/16–18	31.4 ± 2.9	23.1 ± 2.1
3/4–16	59.8 ± 4.9	44.1 ± 3.5
1–1/16–12	102.0 ± 5.9	75.2 ± 4.4
1–5/16–12	135.3 ± 7.8	99.8 ± 5.8
1–5/8–20	181.4 ± 9.8	133.8 ± 7.2

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Cover





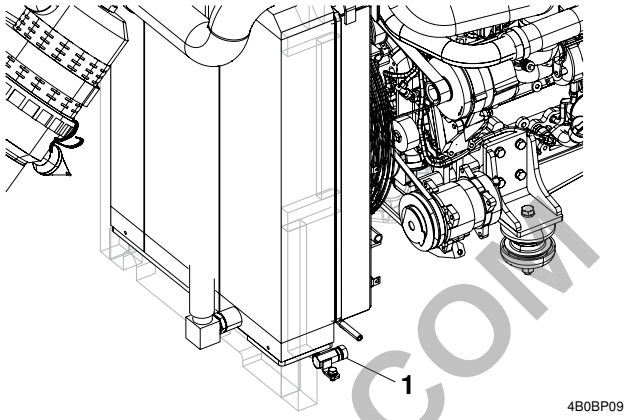
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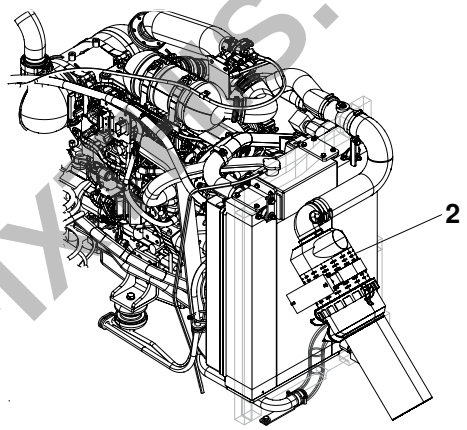
Removing the radiator

The numbers in parentheses ( ) after the names of parts throughout this document do not correspond to the numbers in the construction diagrams or parts lists.

1. Disconnect the battery ground cable from the machine frame.
   ☞ "Removing the battery"
2. Remove the engine hood, the side covers Right and Left, and the engine cover (Front).
   ☞ "Removing the covers"
3. Drain the hydraulic oil from the tank.
   ☞ "Removing the hydraulic tank"
4. Remove the counterweight.
   ☞ "Removing the upper structure"
5. Place a receptacle under the drain valve (1), and drain the coolant out into this receptacle.
   Coolant volume: 20 L (21.1 US qt.)
6. Disconnect the electrical wiring to the air cleaner (2), and remove the air cleaner (2).
7. Disconnect the hoses (3), (4), (5), (6), (7), (8), and (9).
8. Disconnect the hoses (10) and (11).
9. Remove the nuts (12) and lift up the radiator assembly.
   Radiator assembly: 63 kg (138 lb.)



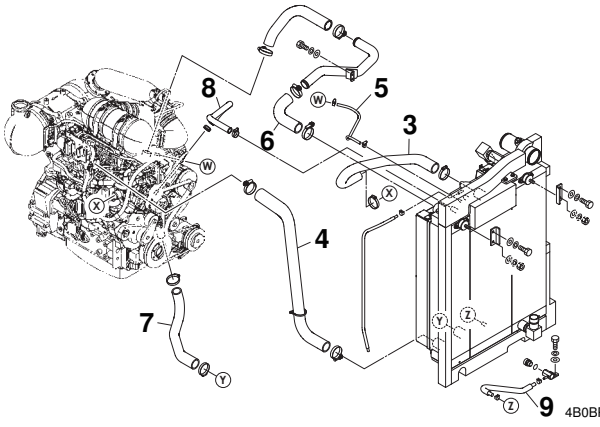
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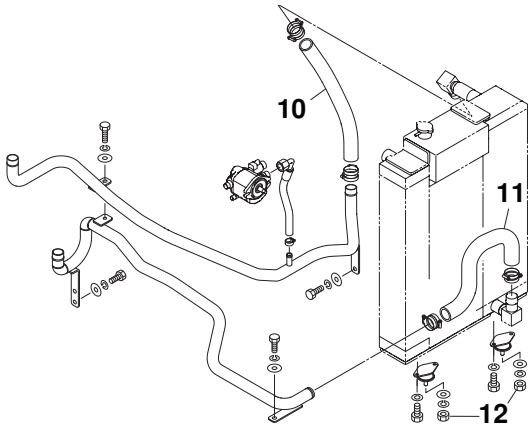
4B0BP10

Installing the radiator

To install the radiator, follow the same procedures as for removal but in the reverse order.
Mount the radiator perpendicular to the frame.



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4B0BP12

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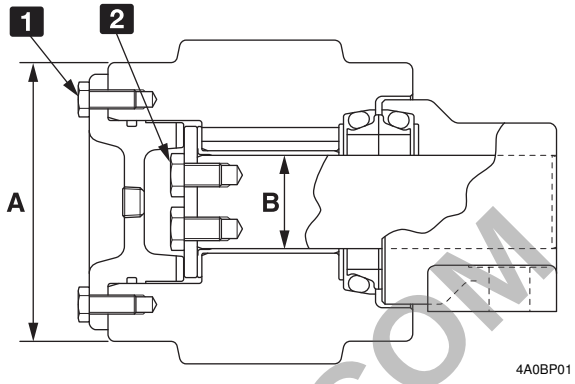
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SERVICE STANDARDS

Carrier roller

Unit: mm (in.)

Code	Criteria	
	Standard dimension	Allowable value
A	120 (4.7)	–
B	40 (1.6)	–



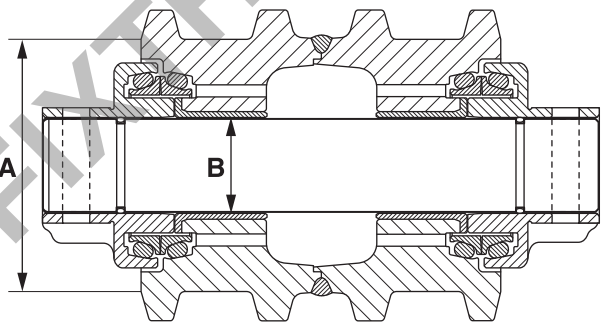
4A0BP01

1 Loctite #262 32 to 37 N·m (23.6 to 27.3 ft-lb.)
2 Loctite #262 62 to 72 N·m (45.7 to 53.1 ft-lb.)

Track roller

Unit: mm (in.)

Code	Criteria	
	Standard dimension	Allowable value
A	130 (5.1)	124 (4.9)
B	50 (2.0)	–

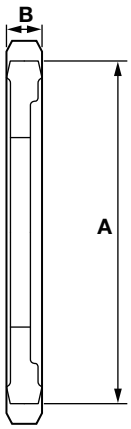


4A0AS02

Sprocket

Unit: mm (in.)

Code	Criteria	
	Standard dimension	Allowable value
A	530.6 (20.9)	524.6 (20.7)
B	61 (2.4)	55 (2.5)

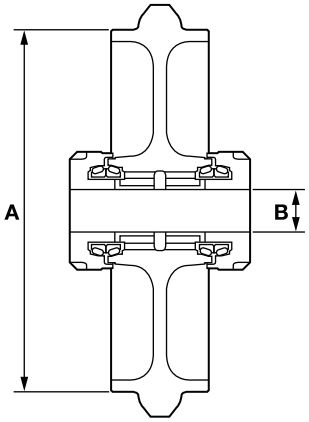


4A0AF03Z

Idler

Unit: mm (in.)

Code	Criteria	
	Standard dimension	Allowable value
A	454 (17.9)	448 (2.8)
B	65 (2.6)	–



4A0AF04Z

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Upper structure overall width	Left		mm (in.)	1285 (50.5)
	Right		mm (in.)	1215 (47.8)
Cab overall width			mm (in.)	1110 (43.7)
Overall height of base machine	Rubber crawler	Canopy	mm (in.)	2960 (116.5)
		Cab	mm (in.)	–
	Steel crawler	Canopy	mm (in.)	–
		Cab	mm (in.)	–
Swing radius			mm (in.)	2000 (78.8)
Upper structure rearmost distance from axis of rotation			mm (in.)	2000 (78.7)
Clearance height under upper structure	Rubber crawler		mm (in.)	930 (36.6)
	Steel crawler		mm (in.)	–
Crawler base	Rubber crawler		mm (in.)	2895 (114)
	Steel crawler		mm (in.)	2875 (113.1)
Crawler overall length	Rubber crawler		mm (in.)	3615 (142.2)
	Steel crawler		mm (in.)	–
Undercarriage overall width	During normal operation		mm (in.)	2490 (98)
	Track retracted		mm (in.)	–
Track gauge	During normal operation		mm (in.)	1990 (78.3)
	Track retracted		mm (in.)	–
Track shoe width			mm (in.)	500 (19.7)
Ground clearance of undercarriage	Rubber crawler		mm (in.)	475 (18.6)
	Steel crawler		mm (in.)	–

Engine

Model			DEUTZ TCD3.6L4
Type			4-cycle, inline water-cooled overhead cam shaft, direct-injection, supercharged exhaust turbo
Cylinders	Number of cylinders	Quantity	4
	Bore	mm (in.)	98 (3.86)
	Stroke	mm (in.)	120 (4.72)
Total displacement		mL (cu. in.)	3621 (221)
Maximum torque		N·m (ft.-lb.)	460 to 0 (339.3 to 0)
		min^{-1} (rpm)	1600 (1600)
Specific fuel consumption (at rated output)		g/(kW·h) (lb./hp-hr.)	218 (0.359)
Fuel/air cleaner			Filter paper-type
Cooling system	Fan		Feed supply system
	Radiator		Pressurized
Starting system	Voltage	V	24
	Output	kW	4.0
Generator	Voltage	V	28
	Output	kW	2.24
Battery	Voltage	V	12
	Capacity	A·h	72
	Quantity		2

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Diesel fuel standards

Use a diesel fuel that is compliant with any of the standards listed below. The table below shows standards from various countries/regions.

Diesel fuel standards	Country/Region
ASTM D975 No. 1-D, S15, S500 No. 2-D, S15, S500	USA Canada
EN590:96	EU
ISO 8217 DMX	International standard
BS 2869-A1 (or A2)	UK
JIS K2204 Grade, 2-go	Japan
KSM-2610	Korea
GB252	China

Part	Type		Capacity
Fuel tank	Diesel fuel	To maintain the performance and service life of the engine, always use clean and high-quality fuel. • To avoid freezing in cold climates, use a light oil that still functions when the temperature is at least 12°C (54°F) below the lowest expected ambient temperature. • Use a light oil with a cetane number of 45 or higher. When operating at a very low temperature or at a high altitude, a higher cetane number fuel will be required. • Use fuel with an overall sulfur content below 0.05% to 0.0015%. Be sure to use fuel with an ultra-low sulfur content for applications in the U.S. or Canada, in particular. • The use of fuel containing a high sulfur content may cause sulfuric acid corrosion to occur inside the cylinder. • Do not mix fuel with any kerosene, used engine oil, or leftover fuel. • Poor quality fuel can degrade engine performance. It can also damage the engine. • Refrain from adding additives to the fuel. Some fuel additives can degrade engine performance.	278 L (73.4 US gal.)

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D1
776522-1(diode)

D1

BAT RELAY

TM2
LA408

TM1
LA408

BC01L+
LA104

100A

SBF2-IN

SBF2-OUT

SBF1-OUT
LA406

S.B.F.1
70A

SBF1-OUT

B+
R60-10

Battery
125D31Lx2
24V

B-
BD816

BAT GND
R60-10

D5
7123-2228

D5

KEY-SW
7123-2845

KEY SWITCH

	B	ACC 15A	C 40A
OFF			
ON	○	○	
START	○	○	○

05743-01410
To 7123-2845

F-BOX1
03.01460

F11	(3A)	ANTI-THEFT ACC
F12	(5A)	DEF SENSOR
F13	(15A)	NOx SENSOR
F14	(5A)	DCDC CONV.
F15	(A)	HORN

F-BOX2
03.01460

F21	(10A)	KEY SWITCH
F22	(10A)	SCR SYSTEM
F23	(30A)	FEED PUMP
F24	(20A)	ECU B
F25	(30A)	FUEL PUMP
F26	(25A)	ANTI-THEFT B
F27	(3A)	CLUSTER B
F28	(10A)	CTL
F29	(10A)	DCDC CONV.
F40	(10A)	

BUS-BAR4 17.07942
BUS-BAR5 17.07942
BUS-BAR6 17.07942
BUS-BAR7 17.07942

CANO
174257-2

CAN1
174257-2

KOSRAN1
7123-2845

KOSRAN SHORT
7122-2845

KOSRAN2
7123-2865

LLLSW
7123-2228

17000-00033
LIMIT SW (N.O)

ANTI-THEFT UNIT

HGND1
7123-4210-30

EGND1
7222-4210-30

SG
LA310

GND4
LA310

GND3
LA310

GND2
LA310

GND1
LA310

GND5
LA310

MAIN

MAIN BODY

POWER SOCKET
17119-00212

PS12
DT04-02P-CE03

DCCON
173851-1

03942-03100
SOCKET

MT
6100-5026

M_GPS
6195-0021

A-4
B-4

FUEL+
FUEL-

16502-04850
BLADE GRIP

To CB104 x 4

FOOT SW-
CA104
FOOT SW+
CB104

FOOT SWITCH AUX3
17001-00064

17000-0006
Accel Sencer

ACCE
7123-6

R GRIP 19017-59018
To DT06-08SA-CE05

RGRIP
DT06-08SA-CE05

CNA
174045-2

17001-00132
Pressure Transmitter

LIFT-S
6189-0131

L GRIP 19017-59018
To DT06-08SA-CE05

LGRIP
DT06-08SA-CE05

HVAC UNIT
Duct Air Temp,
Thermostat Probe

WATER VALVE ACTUATOR

POWER CTL F.B. GND

AC2-3
DTO6-04S-CE05

AC2-2
DTPO4-02P-E003

AC2-1
DTO4-06P-CE03

AC-Chr
12162193

AC-Temp
12162197

19115-12620
RD-5-9254
High Press, Transducer

AC-P
12065287

19115-12619
RD-5-9165
Charge Sensor

19115-12618
RD-5-8131
Temp. Sensor

A/C FRESH DOOR ACTUATOR
19115-12617 RD-5-12450

POWER
CTL
F. B.
GND

AC4
DT06-04S-CE05

COMPRESSOR CLUTCH
AC_CC
60799-5

A-12
B-12

M-SW2

SW2-M

2G0BP03

2G0BP00

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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 ± 0.8	7.2 ± 0.6	12 ± 1.0	9.0 ± 0.7
	M8 × 1.25	23 ± 1.8	17 ± 1.4	26 ± 2.1	20 ± 1.6
	M10 × 1.5	47 ± 3.8	35 ± 2.8	55 ± 4.4	41 ± 3.3
	M12 × 1.75	83 ± 6.6	62 ± 5	97 ± 7.8	72 ± 5.8
	M14 × 2.0	134 ± 10.7	99 ± 7.9	156 ± 12.5	115 ± 9.2
	M16 × 2.0	208 ± 16.6	153 ± 12.2	241 ± 19.3	178 ± 14.2
	M20 × 2.5	411 ± 32.9	303 ± 24.2	476 ± 38.1	351 ± 28.1
Fine	M8 × 1.0	25 ± 2.0	18 ± 1.4	28 ± 2.2	21 ± 1.7
	M10 × 1.25	50 ± 4.0	37 ± 3	59 ± 4.7	43 ± 3.4
	M12 × 1.5	87 ± 7.0	64 ± 5.1	102 ± 8.2	75 ± 6
	M14 × 1.5	135 ± 10.8	100 ± 8	158 ± 12.6	117 ± 9.4
	M16 × 1.5	221 ± 17.7	163 ± 13	256 ± 20.5	189 ± 15.1
	M20 × 1.5	452 ± 36.2	333 ± 26.6	523 ± 41.8	386 ± 30.9

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, tighten opposite bolts/nuts alternately as a pair.

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