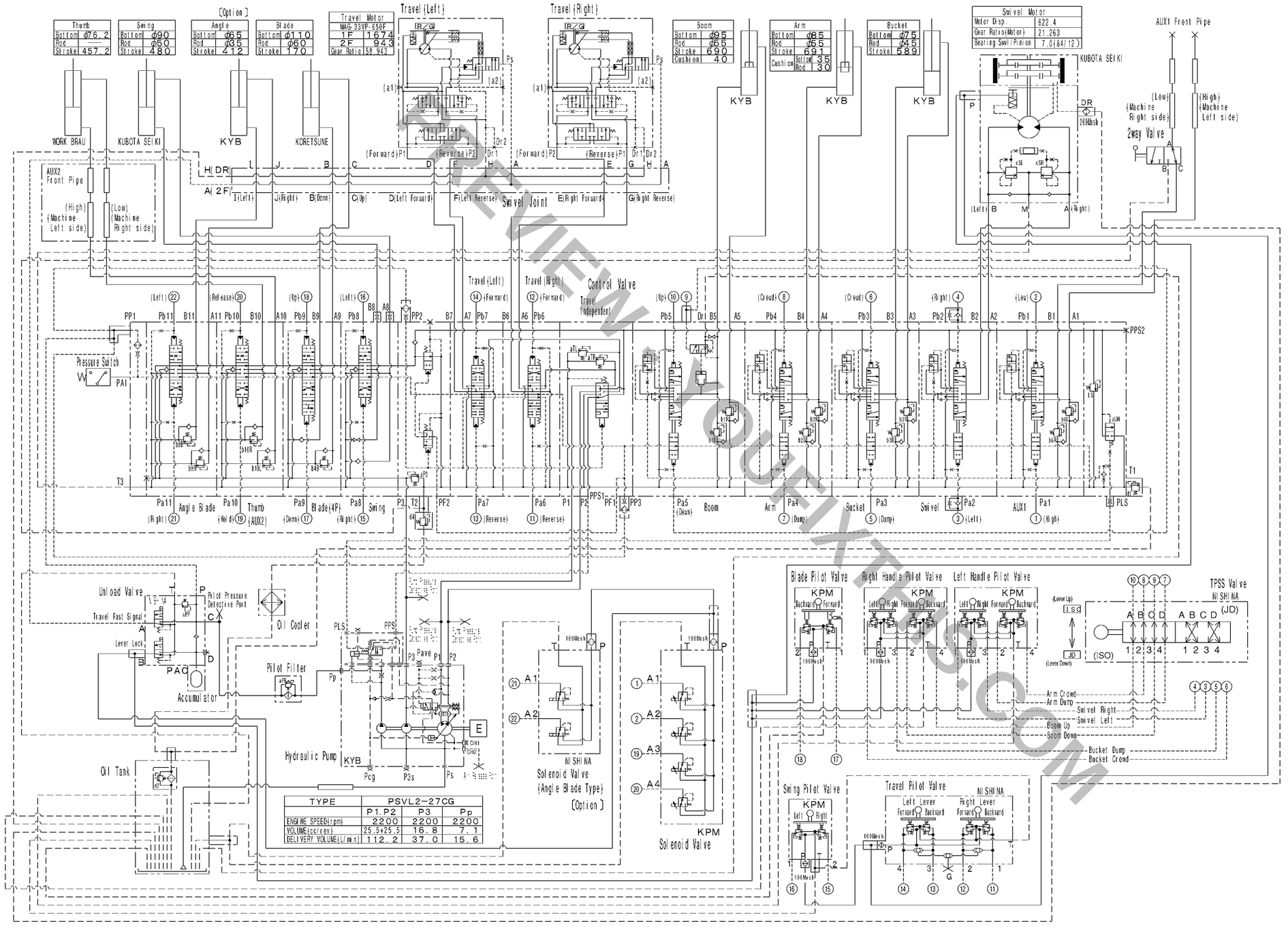
Electrical Wiring Diagram

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1. DIAGRAM OF HYDRAULIC CIRCUIT [KX057-4, U55, U55-4 STANDARD SPECIFICATION (ANGLE BLADE OPTION)]



Mark	Relief Pressure(MPa)		
aUN	Unload LS		2.55
aLS	Main LS		27.4
aTR	Main Travel Right		26.5
aTL	Main Travel Left		26.5
aP3	Main P3		19.1
aPP	Pilot Primary		3.92
aPF	Pilot Line Filter By-Pass		0.15
b1B	Boom	Bottom	31.4
b1R		Rod	31.4
b2B	Arm	Bottom	31.4
b2R		Rod	31.4
b3B	Bucket	Bottom	31.4
b3R		Rod	31.4
b4B	Blade	Bottom	27.4
b4R		Rod	—
b5B	Swing	Bottom	—
b5R		Rod	—
b6L	Aux1(SP1)	LH	17.2
b6R		RH	17.2
b8B	Angle brade	Bottom	19.0
b8R		Rod	27.4
b10L	Aux2(SP2)	LH	17.2
b10R		RH	17.2
cSL	Swivel Motor	LH	20.6
cSR		RH	20.6
cTF	Travel Motor	Forward	—
cTR		Backward	—
d1	Main Return		0.4
d2	Return Filter By-Pass		0.15
d3	Tank Pressure		—
d4	Cooler Return		0.1

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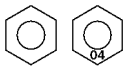
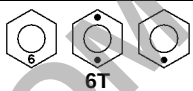
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5. TIGHTNING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Indication on top of nut	 No-grade or 4T												 6T		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6	7.9 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 to 419

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[2] STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.90 to 1.2	6.5 to 8.6
M10	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18	172 to 201	17.5 to 20.5	127 to 148	–	–	–

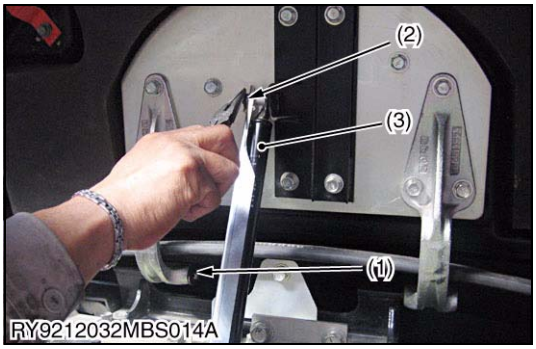
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2. UPPER SWIVEL

[1] WEIGHT DIASSEMBLY / ASSEMBLY



Removing the bonnet (right)

1. Open the bonnet (right) (4), remove the two snap pins (1), (2), and separate the gas damper from the bonnet.



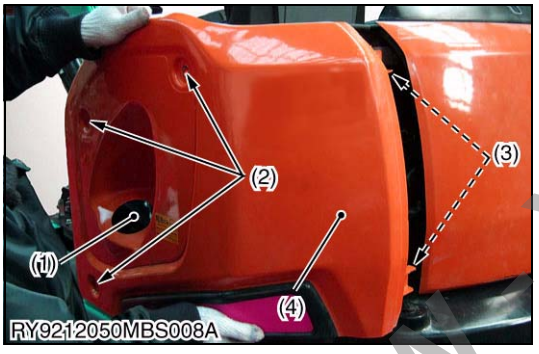
2. Slide the bonnet (right) (4) to the front of the body and remove it.

CAUTION

- **Have another person help you when removing/attaching the bonnet (right).**
- Bonnet (right) weight : 27 kg (60 lbs)

(1) Snap pin, flat washer
(2) Snap pin, flat washer
(3) Gas damper
(4) Bonnet (right)

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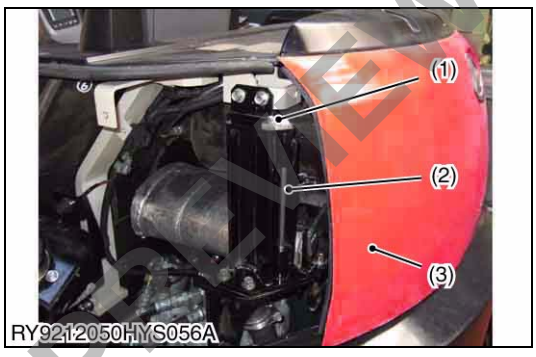


Removing the bonnet (left)

1. Remove five mounting bolts (2), (3) of the bonnet (left) (4) and remove the bonnet (left) (4).

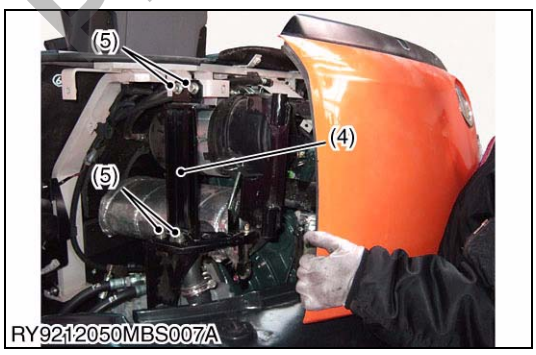
(1) Cap, assy
(2) Bolt (M10x35)
(3) Bolt (M10x25)
(4) Bonnet (rear)

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Removing the bonnet (rear)

1. Remove the bolt (1), pull out the pin (2), and remove the bonnet (rear) (3).



2. Remove the mounting bracket (4) and four mounting bolts (5) of the bonnet (rear) and remove the bracket (4).

(1) Bolt (M8x16)
(2) Pin
(3) Bonnet (rear)
(4) Bracket
(5) Bolt (M10x20)

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution
Engine Does Not Start	No fuel	Replenish fuel
	Air in the fuel system	Vent air
	Water in the fuel system	Change fuel and repair or replace fuel system
	Fuel hose clogged	Clean or replace
	Fuel filter clogged	Replace
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil
	Fuel with low cetane number	Use specified fuel
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut
	Incorrect injection timing	Adjust
	Fuel camshaft worn	Replace
	Injection nozzle clogged	Repair or replace
	Injection pump malfunctioning	Repair or replace
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder
	Improper valve timing	Correct or replace timing gear
	Piston ring and cylinder worn	Replace
	Excessive valve clearance	Adjust
	Stop solenoid malfunctioning	Replace
Starter Does Not Run	Battery discharged	Charge
	Starter malfunctioning	Repair or replace
	Key switch malfunctioning	Replace
	Wiring disconnected	Connect
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace
	Air cleaner clogged	Clean or replace
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut
	Injection pump malfunctioning	Repair or replace
	Incorrect nozzle opening pressure	Repair or replace
	Injection nozzle stuck or clogged	Repair or replace
	Governor malfunctioning	Repair
Either White or Blue Exhaust Gas Is Observed	Excessive engine oil	Reduce to specified level
	Piston ring and cylinder worn or stuck	Repair or replace
	Incorrect injection timing	Adjust
Either Black or Dark Gray Exhaust Gas Is Observed	Overload	Reduce the load
	Low grade fuel used	Use specified fuel
	Fuel filter clogged	Replace
	Air cleaner clogged	Clean or replace
	Deficient nozzle injection	Repair or replace nozzle

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8. QUALITY SPECIFICATIONS

[1] US, CA VERSION

Machine specification : Auxiliary port1 and 2, Angle blade, Cab, WB bucket [150 kg (331 lbs) with hitch 32 kg (70.5 lbs) with 2 pins 8 kg (17.6 lbs)]

Item		Factory Specification		Remarks
		KX057-4 (US, CA)	U55	
Machine size				
• Total length (Transport)		5520 ± 110 mm 217.3 ± 4.3 in.	5500 ± 110 mm 216.5 ± 4.3 in.	
• Total width		1960 ± 20 mm 77.2 ± 0.8 in.	1960 ± 20 mm 77.2 ± 0.8 in.	
• Total height		2550 ± 25 mm 100.4 ± 1.0 in.	2550 ± 25 mm 100.4 ± 1.0 in.	
Weight				Fuel tank : Full
• Machine weight (Operating weight)	ROPS	54.0 ± 3 kN 5505 ± 275 kg 12136 ± 607 lbs	52.7 ± 3 kN 5375 ± 269 kg 11850 ± 592 lbs	Truck : Rubber, Japan STD Bucket [Including operator's weight 75 kg (170 lbs)]
	Angle blade	55.8 ± 3 kN 5695 ± 285 kg 12555 ± 628 lbs	54.6 ± 3 kN 5565 ± 278 kg 12269 ± 613 lbs	
	CAB	54.0 ± 3 kN 5595 ± 280 kg 12136 ± 617 lbs	53.6 ± 3 kN 5460 ± 273 kg 12048 ± 602 lbs	
	Angle blade	56.7 ± 3 kN 5785 ± 289 kg 12754 ± 638 lbs	55.5 ± 3 kN 5655 ± 283 kg 12467 ± 623 lbs	
Performance				
• Swivel speed	L	9.3 ± 0.9 rpm	9.3 ± 0.9 rpm	Front horizontal bucket crowd with no load
	R	9.3 ± 0.9 rpm	9.3 ± 0.9 rpm	Engine Max. speed Oil temp. : 50 ± 5 °C (122 ± 9 °F)
• Travel speed	Rubber F1	2.8 ± 0.3 km/h 1.74 ± 0.2 mph	2.8 ± 0.3 km/h 1.74 ± 0.2 mph	Traveling stance : Engine Max. speed Oil temp. : 50 ± 5 °C (122 ± 9 °F)
	Rubber F2	4.9 ± 0.5 km/h 3.04 ± 0.3 mph	4.9 ± 0.5 km/h 3.04 ± 0.3 mph	
	Steel F1	2.6 ± 0.3 km/h 1.62 ± 0.2 mph	2.6 ± 0.3 km/h 1.62 ± 0.2 mph	
	Steel F2	4.6 ± 0.5 km/h 2.86 ± 0.3 mph	4.6 ± 0.5 km/h 2.86 ± 0.3 mph	
• Gradeability	F1	30 °<	30 °<	Hill-climbing stance, E/G Max speed
Rear end min. turning radius		1276 ± 26 mm 50.2 ± 1.0 in.	1045 ± 26 mm 41.1 ± 0.8 in.	
Swivel frame rear ground clearance		629 ± 12.6 mm 24.8 ± 0.5 in.	629 ± 12.6 mm 24.8 ± 0.5 in.	

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11. MAINTENANCE CHECK LIST

[1] US, CA VERSION

	General Maintenance		Elapsed Operating Hours																			Interval
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
	Check coolant level																						daily
	Change coolant level																						every 2 years
	Check fuel																						daily
	Check engine oil																						daily
*1	Change engine oil (CF)											❍										❍	500 h
	Check hydraulic oil																						daily
	Change hydraulic oil																					❍	1000 h
	Grease front attachments	Bucket and bucket link pin / Dozer angle pin and angle cylinder boss																					daily
		Boom swing fulcrum																					daily
		Others																					daily
	Check radiator and oil coolant																						daily
	Check washer liquid																						daily
	Check engine and electrical wiring																						daily
	Check fuel tank, water separator		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	50 h
	Check battery condition		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	50 h
	Greasing swing bearing teeth		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	50 h
	Check V-belt tension																						daily
	Adjust V-belt tension					❍				❍				❍				❍				❍	200 h
	Check radiator hoses and clamps					❍				❍				❍				❍				❍	200 h
	Replace radiator hoses and clamps																						every 2 years
	@ Air filter element	Clean outer element				❍				❍				❍				❍				❍	200 h
		Replace outer element																				❍	1000 h
		Replace inner element																				❍	1000 h
	Greasing swing ball bearing					❍				❍				❍				❍				❍	200 h
	@ Replace fuel filter cartridge											❍										❍	500 h
*2	Replace engine oil filter											❍										❍	500 h
	Change drive unit oil		●									❍										❍	500 h
	Replace breather filter											❍										❍	500 h
	Replace hydraulic return filter element																					❍	1000 h
	Replace hydraulic suction filter element																					❍	1000 h
	Replace filter in the pilot hydraulic system																					❍	1000 h
*3	@ Check fuel injection nozzle injection pressure																						1500 h
	Change front idler and track roller oil																						2000 h
	Check alternator and starter motor																						2000 h
*3	@ Check injection pump																						3000 h
	Rinse radiator system																						every 2 years
	@ Check fuel line and intake air line					❍				❍				❍				❍				❍	200 h
	@ Replace fuel line and intake air line																						every 2 years

● First operation

*1 : Change the engine oil every 500 hours, or every 1 year in the case that service hour is less than 500 hours.

*2 : Replace the engine oil filter every 500 hours, or every 1 year in the case that service hour is less than 500 hours.

*3 : Consult your local KUBOTA dealer for this service.

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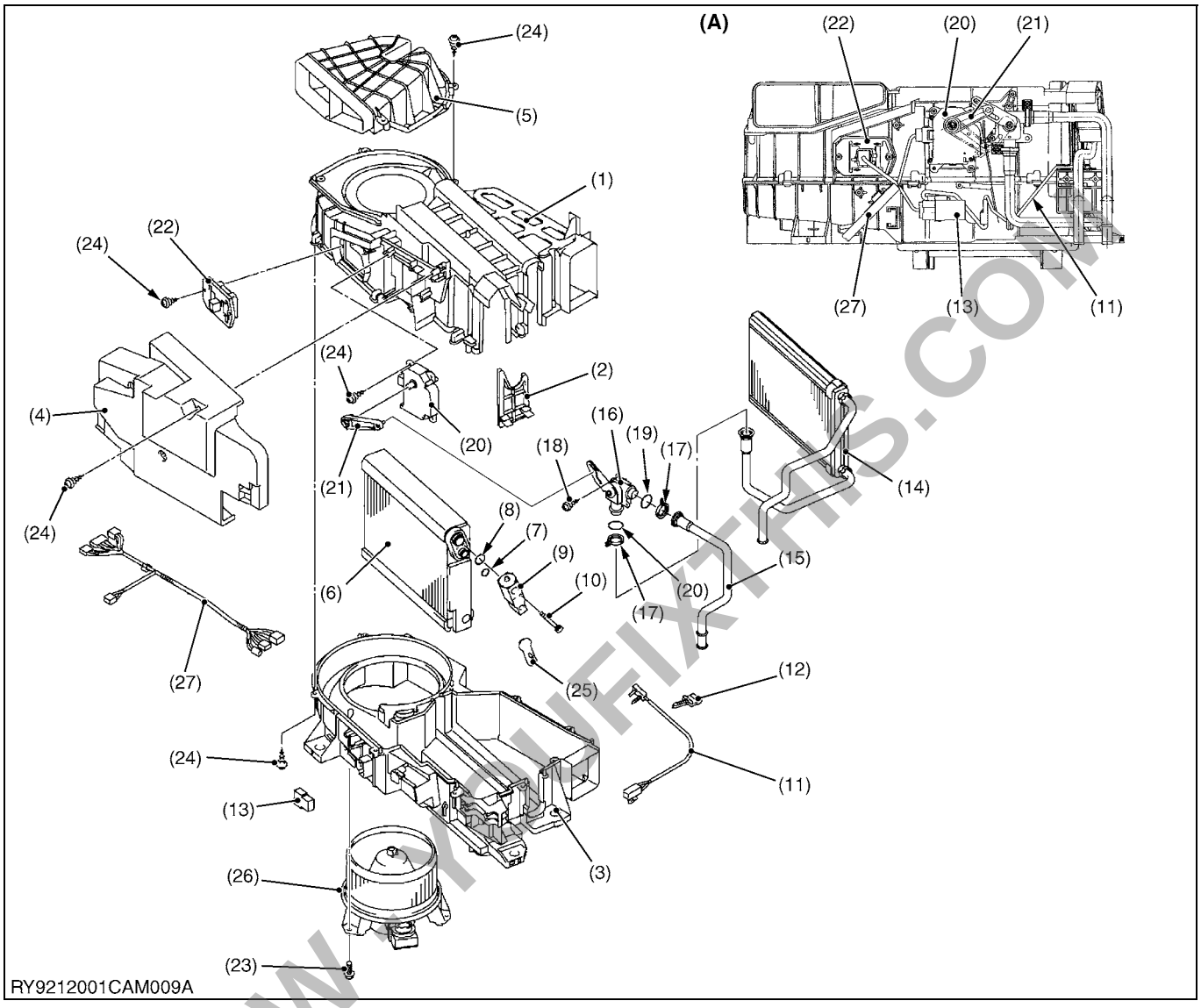
No.	Name of part	Q'ty	Notes	No.	Name of part	Q'ty	Notes
(1)	Case	1		(46)	Washer	2	JIS B 1256,8
(2)	Bearing	1		(47)	Socket head bolt	6	JIS B 1176, M12x35 L
(3)	Flange	1		(48)	Plug	6	
(4)	Needle bearing	1		(49)	Valve ASSY	1	(50) to (63)
(5)	Oil Seal	1		(50)	Valve body	1	
(6)	Snap ring	1	JIS B 2804, 42 HOLE	(51)	Spool	1	
(7)	Shaft	1		(52)	Bushing	1	
(8)	Thrust washer	1		(53)	Spring seat	1	
(9)	Thrust washer	1		(54)	Cap	1	
(10)	Gasket	1		(55)	Nut	1	
(11)	Pin	3	6x12	(56)	Nut	1	
(12)	Bushing	2		(57)	Holder	1	
(13)	Screw	2		(58)	Set screw	1	
(14)	Valve plate	1		(59)	Spring	1	
(15)	Cylinder block	1		(60)	O-Ring	1	JIS B 2401,1B,P16
(16)	Collar	1		(61)	O-Ring	1	JIS B 2401,1B,P8
(17)	Spring	1		(62)	Plug	1	
(18)	Collar	1		(63)	O-Ring	1	
(19)	Snap ring	1	JIS B 2804,48 HOLE	(64)	Socket head bolt	4	4 JIS B 1176, M6x16 L
(20)	Pin	3		(65)	Stopper	1	
(21)	Piston ASSY	10		(66)	Nameplate	1	
(22)	Retainer holder	1		(67)	Drive screw	2	
(23)	Retainer plate	1		(68)	Shipping plug	2	PF1/4
(24)	Swash-plate	1		(69)	Shipping plug	3	PF1/2
(25)	Pin	1		(70)	O-Ring	1	
(26)	Pin	1		(71)	Pin	1	
(27)	O-Ring	4	JIS B 2401,1B,P8	(72)	Pin	1	
(28)	Plug	29		(73)	O-Ring	1	
(29)	Orifice	1		(74)	Orifice	1	
(30)	Pin	1		(75)	Shipping plate	1	
(31)	Spring	1		(76)	Shipping plug	1	
(32)	Spring	1		(77)	Orifice	1	
(33)	Spring seat	2		(78)	O-Ring	1	
(34)	Valve ASSY	1	(35) to (41)	(79)	O-Ring	1	
(35)	Spool	1		(80)	Stopper	1	
(36)	Valve sleeve	1		(81)	Valve seat	1	
(37)	Pin	1		(82)	Steel ball	2	
(38)	Collar	1		(83)	Orifice	2	
(39)	O-Ring	1		(84)	Seat	2	
(40)	Plug	1		(85)	O-Ring	2	
(41)	O-Ring	1		(86)	Shipping plug	1	PF3/8
(42)	O-Ring	1		(87)	Plug	1	PF3/8
(43)	Nut	1		(88)	O-Ring	6	
(44)	Gear Pump	1		(89)	Collar	1	
(45)	Socket head bolt	2		(90)	Orifice	1	

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[4] AIR CONDITIONING UNIT



(A) Diagram of Linkages and Electrical Parts

The air conditioning unit is composed of an evaporator, an expansion valve, a heater core, a blower, etc.

No.	Name of part	Notes	No.	Name of part	Notes
(1)	Case, air conditioning unit	Top case	(15)	Pipe	
(2)	Case, air conditioning unit	Evaporator	(16)	Hot water valve	
(3)	Case, air conditioning unit	Bottom case	(17)	Clip	D24
(4)	Case, air conditioning unit	Linkage cover	(18)	Screw, W/washer	M4, L10
(5)	Case, air conditioning unit	Intake cover	(19)	O-Rings	ID15.8
(6)	Evaporator		(20)	Servo motor	Temperature control
(7)	O-Rings	1/2" 134A	(21)	Linkage lever	
(8)	O-Rings	5/8" 134A	(22)	Blower resistor	Plate
(9)	Expansion valve	BOX 1.0 ton	(23)	Tapping screw	D5, L16
(10)	Bolt	For expansion valve	(24)	Tapping screw	D4, L16
(11)	Thermistor		(25)	Cap (plug)	For expansion valve
(12)	Clamp	For thermistor	(26)	Blower motor	
(13)	AC Amp		(27)	Wire harness	
(14)	Heater core				

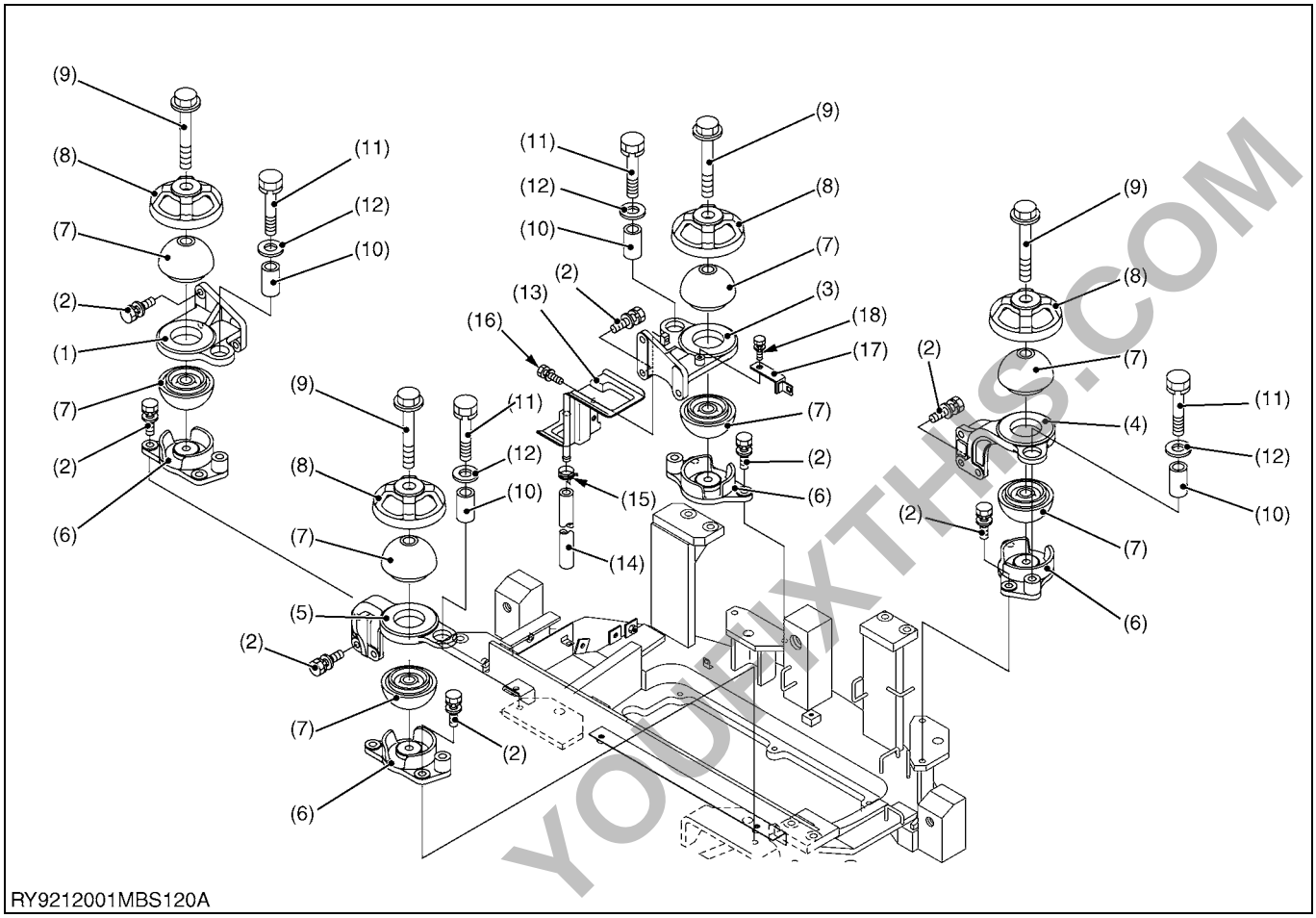
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[5] ENGINE

(1) Engine mount

[A] Engine mount structural components



(1) Bracket (1, engine)
(2) Bolt (M12 x 35)
(3) Bracket (2, engine)
(4) Bracket (3, engine)
(5) Bracket (4, engine)
(6) Support (engine)
(7) Anti-vibration rubber (450)
(8) Cap
(9) Bolt (M16 x 110)
(10) Collar
(11) Bolt (M16 X 70)
(12) Flat metal washer
(13) Tray (engine)
(14) Fuel tube
(15) Pipe clip
(16) Flat washer assembly bolt
(17) Stay (harness clamp)
(18) Flat washer assembly bolt

Tightening torque	Bolt (9)	196.1 to 225.6 N·m 20 to 23 kgf·m 144.7 to 166.3 lbf·ft

Apply thread locking compound (loctite 271) onto part number (2), (9), (11) and (18).

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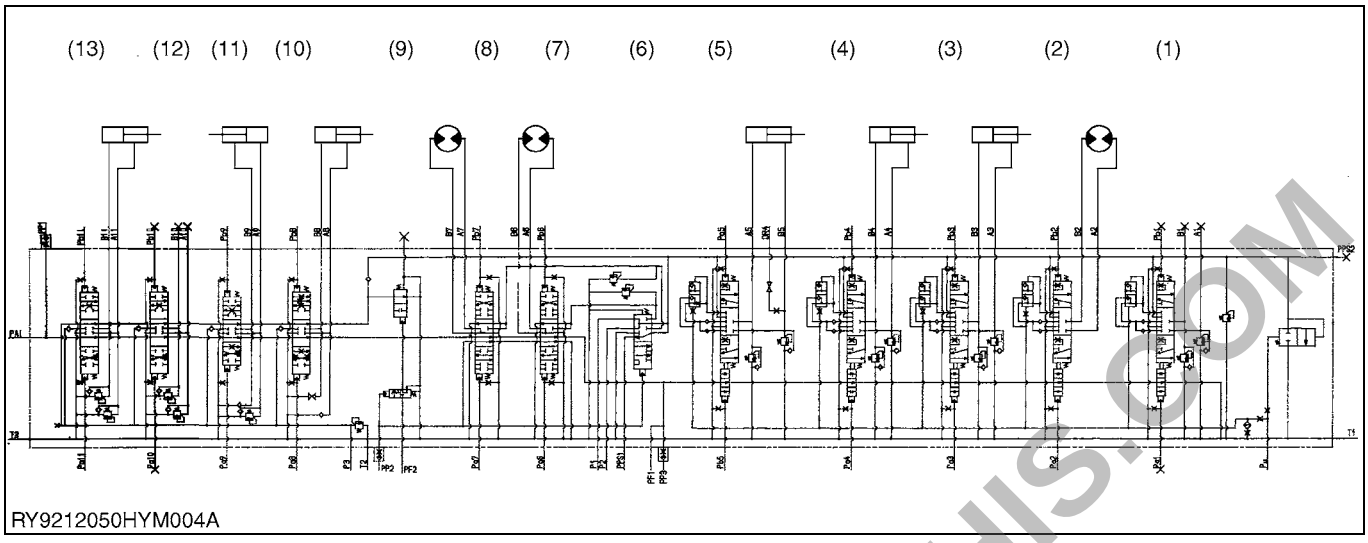
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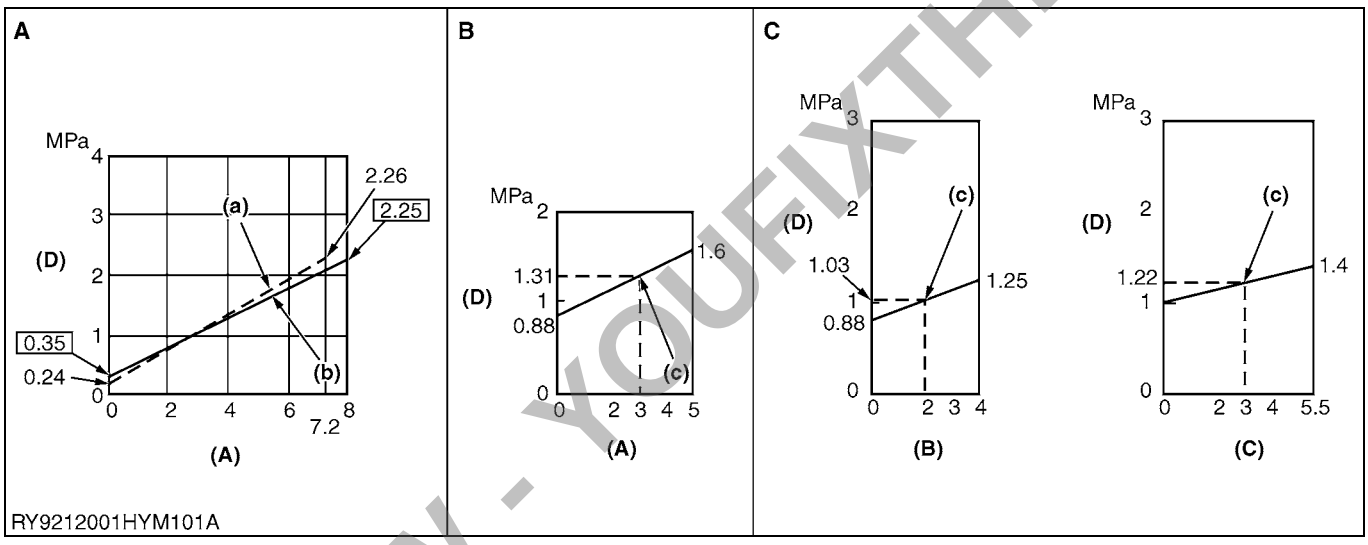
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Electrical Circuit Diagram

(2) Diagram of Hydraulic Circuit

Angle Specification





(1) AUX1
(2) Swivel
(3) Bucket
(4) Arm
(5) Boom
(6) Independent travel valve
(7) Travel right
(8) Travel left
(9) Communication valve
(10) Swing
(11) Blade
(12) AUX2
(13) Angle blade

A: Main spool pressure receiver characteristics
B: Independent travel valve
C: Communication valve

(A) Spool stroke (mm)
(B) Spool stroke (mm)
(C) Spool stroke (main spool) (mm)
(D) Pilot pressure (MPa)

(a) Boom, arm, bucket, AUX1, swivel
(b) Travel, AUX2, swing, blade
(c) Spool closed

RY9212050HYM0013US0

(3) Function and Structure

[A] Diagram of independent travel circuit

When the travel lever is operated, the hydraulic oil from pumps P1 and P2 passes through the independent travel valve and the oil from P1is supplied to the travel right motor while the oil from P2 goes to the travel left motor.

When a front-end operation (AUX1, swivel, boom, arm or bucket) is executed at the same time, oil from the gear pump P3 is supplied to the front (AUX1, swivel, boom, arm or bucket), so there is little change in speed and the mini-excavator harnesses a great deal of horsepower for traveling.

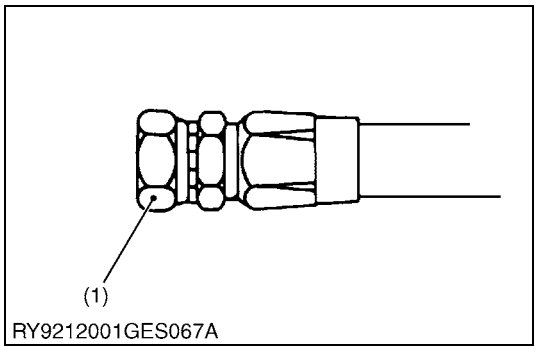
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[3] TORQUE FOR HYDRAULIC HOSE FITTINGS

(1) Torque for Hydraulic Hose Fittings



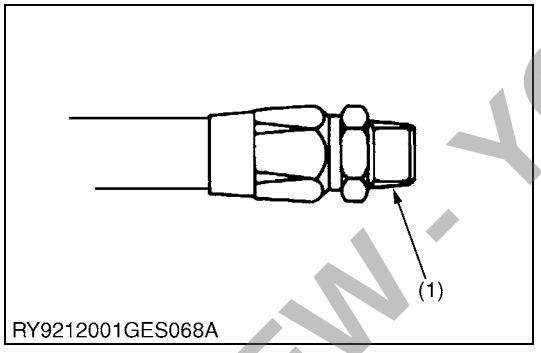
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Union Nuts

Torque	1/8	7.8 to 11.8 N·m 0.8 to 1.2 kgf·m 5.7 to 8.7 lbf·ft
	1/4	24.5 to 29.2 N·m 2.5 to 3.0 kgf·m 18.1 to 21.7 lbf·ft
	3/8	37.2 to 42.1 N·m 3.8 to 4.3 kgf·m 27.5 to 31.1 lbf·ft
	1/2	58.8 to 63.7 N·m 6.0 to 6.5 kgf·m 43.4 to 47.0 lbf·ft
	3/4	117.6 to 127.4 N·m 12.0 to 13.0 kgf·m 86.8 to 94.0 lbf·ft
	1	181.3 to 191.1 N·m 18.5 to 19.5 kgf·m 133.8 to 141.0 lbf·ft
	1-1/4	220.5 to 230.3 N·m 22.5 to 23.5 kgf·m 162.8 to 170.0 lbf·ft

(1) Union Nuts

RY9212001GEG0041US0



RY9212001GES068A

Tapered Nuts

Torque	1/8	19.6 to 29.4 N·m 2.0 to 3.0 kgf·m 14.5 to 21.7 lbf·ft
	1/4	36.6 to 44.1 N·m 3.7 to 4.5 kgf·m 26.8 to 32.5 lbf·ft
	3/8	68.6 to 73.5 N·m 7.0 to 7.5 kgf·m 50.6 to 54.2 lbf·ft
	1/2	83.4 to 88.3 N·m 8.5 to 9.0 kgf·m 61.5 to 65.1 lbf·ft
	3/4	166.6 to 181.3 N·m 17.0 to 18.5 kgf·m 123.0 to 133.8 lbf·ft

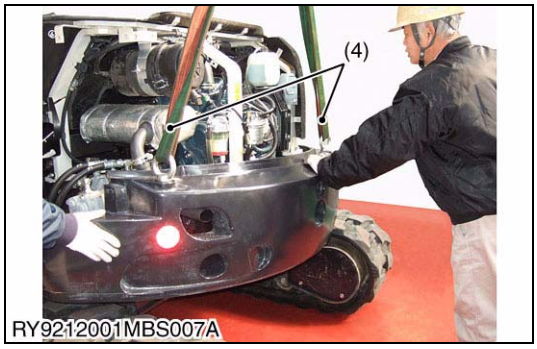
(1) Taper

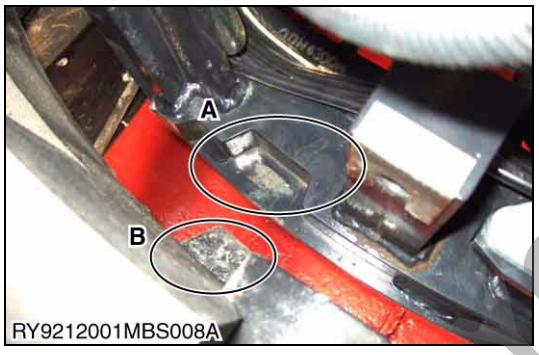
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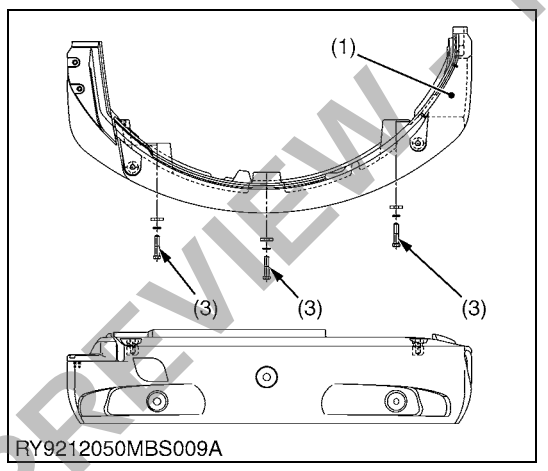
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Removing the weight

1. Attach two eyebolts (2) to the weight (1), connect a nylon sling (4) to these and support the weight using a crane.

2. Remove the three mounting bolts (3) of the weight, lift slightly with the crane, slide the weight to the rear, lift the weight and remove it from the frame.

Tightening torque	Wiight (1)	367.7 ~ 431.5 N·m 37.5 ~ 44.0 kgf·m 271.2 ~ 318.3 lbf·ft

Apply thread locking compound (Loctite 271)

- Weight of the weight :
  680 kg, 1500 lbs (KX057-4)
  700 kg, 1540 lbs (U55, U55-4)

CAUTION

- **When assembling the weight, align the protruding part B of the weight with the indented part A in the frame and line up the mounting holes.**

(1) Weight
(2) Eyebolt (M24 × P3)
(3) Bolt (M20×90)
(4) Nylon sling

A : Indent part in frame
B : Protruding part of weight

RY9212050MBS0007US0

(1) Weight

(3) Bolt (M20×90)

RY9212050MBS0008US0

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Symptom	Probable Cause	Solution
Deficient Output	Incorrect injection timing	Adjust
	Engine's moving parts seem to be seizing	Repair or replace
	Injection pump malfunctioning	Repair or replace
	Deficient nozzle injection	Repair or replace nozzle
	Compression leak	Check the compression pressure and repair
	Air cleaner dirty or clogged	Clean or replace
Excessive Lubricant Oil Consumption	Piston ring's gap facing the same direction	Shift ring gap direction
	Oil ring worn or stuck	Replace
	Piston ring groove worn	Replace piston
	Valve stem and valve guide worn	Replace
	Crankshaft bearing and crank pin bearing worn	Replace
	Oil leaking due to defective seals or packing	Replace
Fuel Mixed into Lubricant Oil	Injection pump's plunger worn	Repair or replace
	Deficient nozzle injection	Repair or replace nozzle
	Injection pump broken	Replace
Water Mixed into Lubricant Oil	Head gasket defective	Replace
	Cylinder block or cylinder head flawed	Replace
Low Oil Pressure	Engine oil insufficient	Replenish
	Oil strainer clogged	Clean
	Relief valve stuck with dirt	Clean
	Relief valve spring weaken or broken	Replace
	Excessive oil clearance of crankshaft bearing	Replace
	Excessive oil clearance of crankpin bearing	Replace
	Excessive oil clearance of rocker arm	Replace
	Oil passage clogged	Clean
	Different type of oil	Use specified type of oil
	Oil pump defective	Replace
High Oil Pressure	Different type of oil	Use specified type of oil
	Relief valve defective	Replace
Engine Overheated	Engine oil insufficient	Replenish
	Fan belt broken or elongated	Replace or adjust
	Coolant insufficient	Replenish
	Radiator net and radiator fin clogged with dust	Clean
	Inside of radiator corroded	Clean or replace
	Coolant flow route corroded	Clean or replace
	Radiator cap defective	Replace
	Overload running	Reduce the load
	Head gasket defective	Replace
	Incorrect injection timing	Adjust
	Unsuitable fuel used	Use specified fuel

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Item		Factory Specification		Remarks
		KX057-4 (US, CA)	U55	
Tumbler center distance		1990 ± 60.0 mm 78.3 ± 2.4 in.	1990 ± 60.0 mm 78.3 ± 2.4 in.	
Crawler total length		2500 ± 75 mm 98.4 ± 3.0 in.	2500 ± 75 mm 98.4 ± 3.0 in.	
Crawler total width		1960 ± 39 mm 77.2 ± 1.5 in.	1960 ± 39 mm 77.2 ± 1.5 in.	
Min. ground clearance		310 ± 9 mm 12.2 ± 0.4 in.	310 ± 9 mm 12.2 ± 0.4 in.	Including bottom plate
Front attachment				
• Bucket heaped capacity	SAE, JIS	0.16 ± 0.006 m^3 0.2 ± 0.008 yd^3	0.16 ± 0.006 m^3 0.2 ± 0.008 yd^3	Slope angle : 1×1
• Bucket struck capacity		0.12 ± 0.005 m^3 0.2 ± 0.006 yd^3	0.12 ± 0.005 m^3 0.2 ± 0.006 yd^3	
• Bucket width		610 ± 12 mm 24.0 ± 0.5 in.	610 ± 12 mm 24.0 ± 0.5 in.	Without side cutter
• Swing angle	ROPS L	71 ± 2 °	71 ± 2 °	
	ROPS R	54 ± 2 °	54 ± 2 °	
	CAB L	71 ± 2 °	71 ± 2 °	
	CAB R	54 ± 2 °	54 ± 2 °	
• Max. digging radius		6240 ± 94 mm 245.7 ± 4 in.	6080 ± 91 mm 239.4 ± 4 in.	0 ° swing
• Ground level Max. digging radius		6110 ± 92mm 240.6 ± 4 in.	5945 ± 89 mm 234.1 ± 4 in.	0 ° swing
• Ground level Min. finish radius		1985 ± 40 mm 78.1 ± 2 in.	2045 ± 41 mm 80.5 ± 2 in.	0 ° swing Bucket bottom horizontal
• Max. digging depth		3865 ± 77 mm 152.2 ± 3 in.	3615 ± 72 mm 142.3 ± 3 in.	
• Max. vertical digging depth		1710 ± 51 mm 67.3 ± 2 in.	1515 ± 45mm 59.6 ± 2 in.	
• Max. digging height	ROPS	5740 ± 115 mm 226.0 ± 5 in.	5580 ± 112 mm 219.7 ± 4 in.	
	CAB	5740 ± 115 mm 226.0 ± 5 in	5580 ± 112 mm 219.7 ± 4 in.	

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[2] AU VERSION

	General Maintenance		Elapsed Operating Hours																				Interval
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
	Check coolant level																						daily
	Change coolant level																						every 2 years
	Check fuel																						daily
	Check engine oil																						daily
	Change engine oil		●				❍					❍					❍					❍	250 h
	Check hydraulic oil																						daily
	Change hydraulic oil																					❍	1000 h
	Grease front attachments	Bucket and bucket link pin																					daily
		Boom swing fulcrum																					daily
		Others																					daily
	Check radiator and oil coolant																						daily
	Check washer liquid																						daily
	Check engine and electrical wiring																						daily
	Clean pre-cleaner																						daily
	Check fuel tank, water separator		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	50 h
	Check battery condition		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	50 h
	Greasing swing bearing teeth		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	50 h
	Check V-belt tension																						daily
	Adjust V-belt tension					❍				❍				❍				❍				❍	200 h
	Check radiator hoses and clamps					❍				❍				❍				❍				❍	200 h
	Replace radiator hoses and clamps																						every 2 years
	@ Air filter element	Clean outer element				❍				❍				❍				❍				❍	200 h
		Replace outer element																				❍	1000 h
		Replace inner element																				❍	1000 h
	Greasing swing ball bearing					❍				❍				❍				❍				❍	200 h
	@ Replace fuel filter cartridge											❍										❍	500 h
	Replace engine oil filter						❍					❍					❍					❍	250 h
	Change drive unit oil		●									❍										❍	500 h
	Replace breather filter											❍										❍	500 h
	Replace hydraulic return filter element																					❍	1000 h
	Replace hydraulic suction filter element																					❍	1000 h
	Replace filter in the pilot hydraulic system																					❍	1000 h
*1	@ Check fuel injection nozzle injection pressure																						1500 h
	Change front idler and track roller oil																						2000 h
	Check alternator and starter motor																						2000 h
*1	@ Check injection pump																						3000 h
	Rinse radiator system																						every 2 years
	@ Check fuel line and intake air line					❍				❍				❍				❍				❍	200 h
	@ Replace fuel line and intake air line																						every 2 years

● First operation

*1 : Consult your local KUBOTA dealer for this service.

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No.	Name of part	Q'ty	Notes	No.	Name of part	Q'ty	Notes
(1)	Motor ASSY (with valves)	1	(2),(20), (47) to (57)	(46)	Nut	2	
(2)	Motor ASSY	1	(3) to (19),(58)	(47)	Cover (motor)	1	
(3)	Ball bearing	1		(48)	Plug (R1/4)	2	
(4)	Shaft	1		(49)	Ball bearing	1	
(5)	Thrust plate	1		(50)	Plate (valve)	1	
(6)	Cylinder block (swivel)	1		(51)	Parallel pin	1	
(7)	Metal washer (spring)	1		(52)	Parallel pin	2	
(8)	Spring CY	1		(53)	Parallel pin	2	
(9)	Metal washer (spring)	1		(54)	O-Ring	1	
(10)	Internal circlip	1		(55)	O-Ring	2	
(11)	Pin	1		(56)	Hex socket bolt	7	
(12)	Piston ASSY	9		(57)	O-Ring	1	
(13)	Plate (retainer)	1		(58)	O-Ring	2	
(14)	Holder (retainer)	?		(59)	Gear case ASSY (swivel)	1	(60) to (82)
(15)	Plate (friction)	?		(60)	Gear case	1	
(16)	Piston (brake)	1		(61)	Tapered roller bearing	1	
(17)	O-Ring	1		(62)	Plate (valve)	1	
(18)	O-Ring	1		(63)	Plate (pinion)	1	
(19)	Spring (NB)	12		(64)	Plate (pinion 2)	1	
(20)	Valve ASSY (swivel)	1	(21) to (46)	(65)	Shaft (pinion)	1	
(21)	Housing (motor and valves)	1		(66)	Oil Seal	1	
(22)	Poppet	2		(67)	Tapered roller bearing	1	
(23)	Compression spring	2		(68)	Spacer	2	
(24)	Plug	2		(69)	Holder (2)	1	
(25)	O-Ring	2		(70)	Collar (2)	4	
(26)	Piston (shockless)	1		(71)	Needle bearing	4	
(27)	Plug (G1/2)	2		(72)	Gear (planetary 2)	4	
(28)	O-Ring	2		(73)	Plate (thrust 2)	4	
(29)	Valve ASSY (relief)	2	(30) to (46)	(74)	External circlip	4	
(30)	Housing (relief)	2		(75)	Gear (sun)	1	
(31)	O-Ring	2		(76)	External circlip	1	
(32)	O-Ring	2		(77)	Holder (1)	1	
(33)	Ring (backup)	2		(78)	Collar (1)	3	
(34)	Plug (relief)	2		(79)	Needle bearing	3	
(35)	O-Ring	2		(80)	Gear (planetary 1)	3	
(36)	Guide (spring)	2		(81)	Plate (thrust)	1	
(37)	O-Ring	2		(82)	Gear (drive)	1	
(38)	Ring (backup)	2		(83)	Hex socket bolt	2	
(39)	Compression spring	2		(84)	Filter	1	
(40)	Ring (spring seat)	2		(85)	O-Ring	1	
(41)	Poppet	2		(86)	Plug (G1/2)	1	
(42)	Ring (Poppet seat)	2		(87)	O-Ring	1	
(43)	O-Ring	2		(88)	Plug (G1/4)	1	
(44)	Backup ring	4		(89)	O-Ring	1	
(45)	Set screw	2					

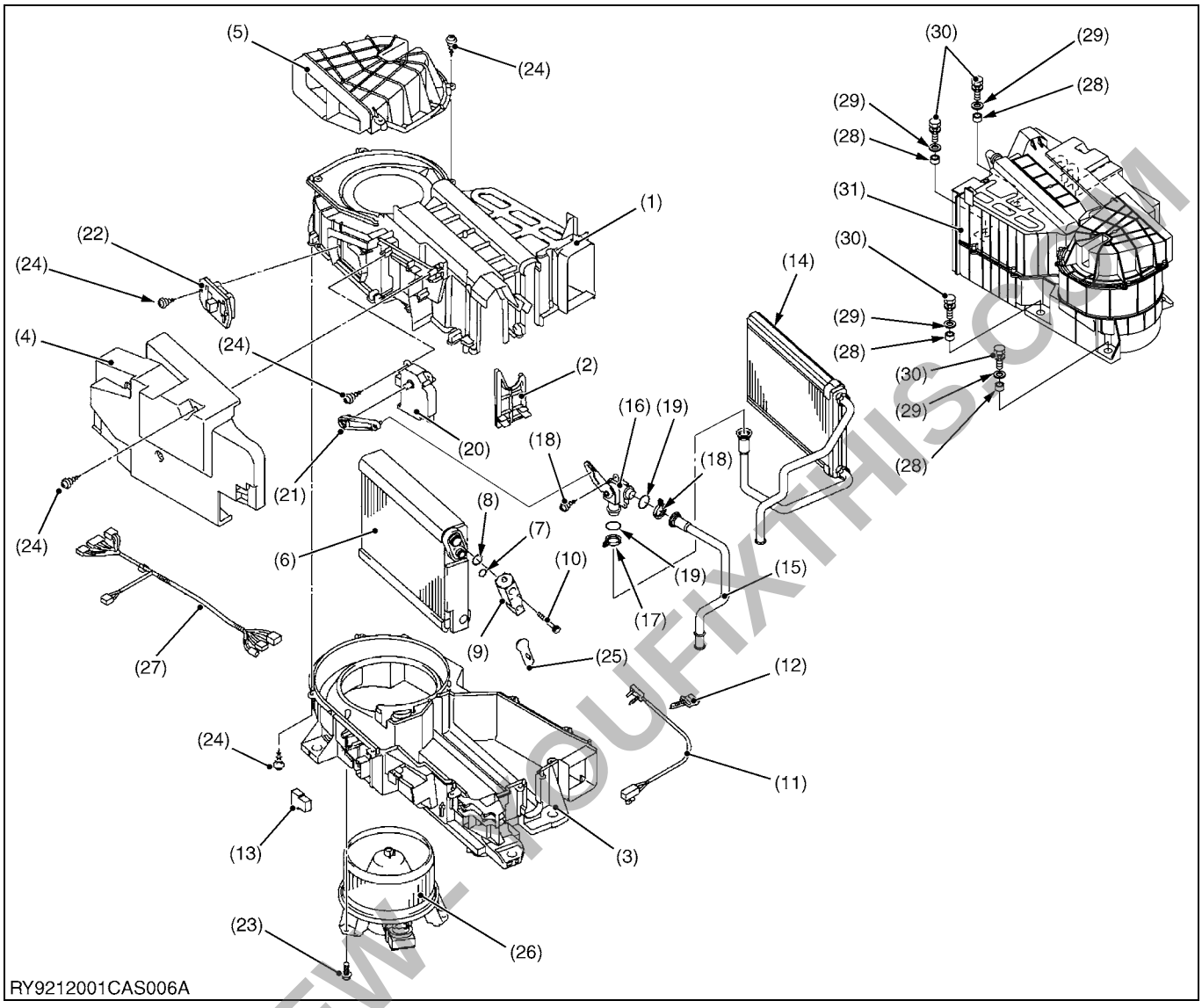
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[2] DISASSEMBLY AND ASSEMBLY

Diagram of AC Unit



(1) Top case
(2) Evaporator
(3) Bottom case
(4) Linkage cover
(5) Intake cover
(6) Evaporator
(7) O-ring
(8) O-ring
(9) Expansion valve
(10) Expansion bolt
(11) Thermistor ASSY
(12) Thermistor clamp
(13) AC amp
(14) Heater Core
(15) Pipe
(16) Water valve
(17) Clip
(18) Washer screw
(19) O-ring
(20) Servo motor
(21) Linkage lever
(22) Blower resistor
(23) Tapping screw
(24) Tapping screw
(25) Cap (plug)
(26) Blower fan
(27) Wire harness
(28) AC collar
(29) Flat washer
(30) Bolt
(31) Air Conditioning Unit

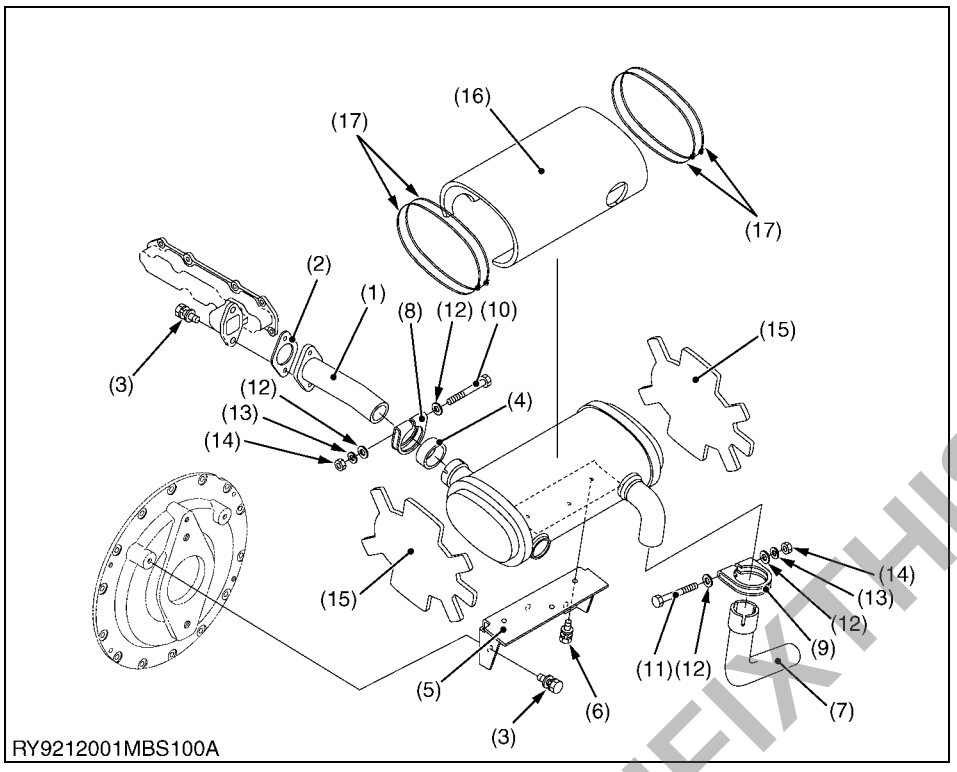
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(2) Muffler

[A] Muffler structural components



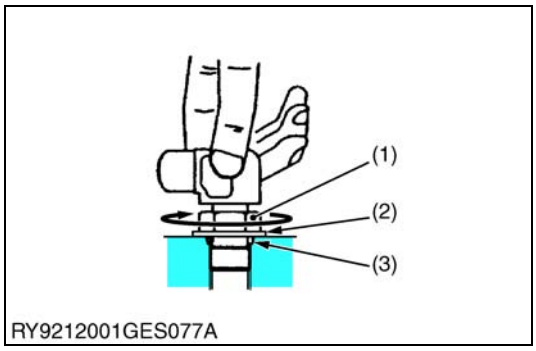
(1) Frange (muffler)
(2) Gascket (muffler, NA)
(3) Bolt (M10×25)
(4) Gascket (muffler)
(5) Bracket (muffler)
(6) Bolt (M8×20)
(7) Pipe (muffler)
(8) Band (flange muffler)
(9) Band (muffler pipe)
(10) Bolt (M8×85)
(11) Bolt (M8×75)
(12) Flat metal washer
(13) Spring washer
(14) Nut
(15) Insulation (1, muffler)
(16) Insulation (2, muffler)
(17) Wire

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(2) Torques of Lock-Nuts for Elbows with Male Seats and Adaptors with O-rings (Straight Threads)



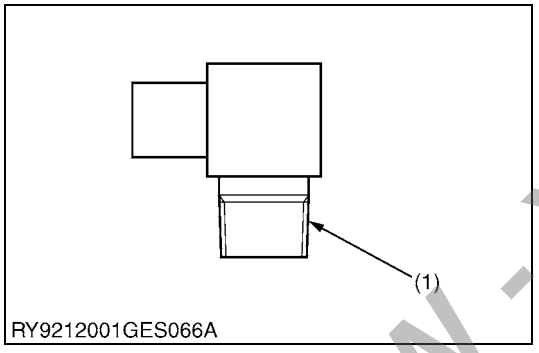
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Torque	1/8	7.8 to 11.8 N·m 0.8 to 1.2 kgf·m 5.8 to 8.7 lbf·ft
	1/4	24.5 to 29.2 N·m 2.5 to 3.0 kgf·m 18.1 to 21.7 lbf·ft
	3/8	37.2 to 42.1 N·m 3.8 to 4.3 kgf·m 27.5 to 31.1 lbf·ft
	1/2	58.8 to 63.7 N·m 6.0 to 6.5 kgf·m 43.4 to 47.0 lbf·ft
	3/4	117.6 to 127.4 N·m 12.0 to 13.0 kgf·m 86.8 to 94.0 lbf·ft
	1-1/4	220.5 to 230.3 N·m 22.5 to 23.5 kgf·m 162.8 to 170.0 lbf·ft

(1) Lock-nut
(2) Washer
(3) Seal (O-ring)

RY9212001GEG0043US0

(3) Torque for Tapering Adaptors



RY9212001GES066A

Torque	1/8	19.6 to 29.4 N·m 2.0 to 3.0 kgf·m 14.5 to 21.7 lbf·ft
	1/4	36.6 to 44.1 N·m 3.7 to 4.5 kgf·m 26.8 to 32.5 lbf·ft
	3/8	68.6 to 73.5 N·m 7.0 to 7.5 kgf·m 50.6 to 54.2 lbf·ft
	1/2	83.4 to 88.3 N·m 8.5 to 9.0 kgf·m 61.5 to 65.1 lbf·ft
	3/4	166.6 to 181.3 N·m 17.0 to 18.5 kgf·m 123.0 to 133.8 lbf·ft

(1) Taper

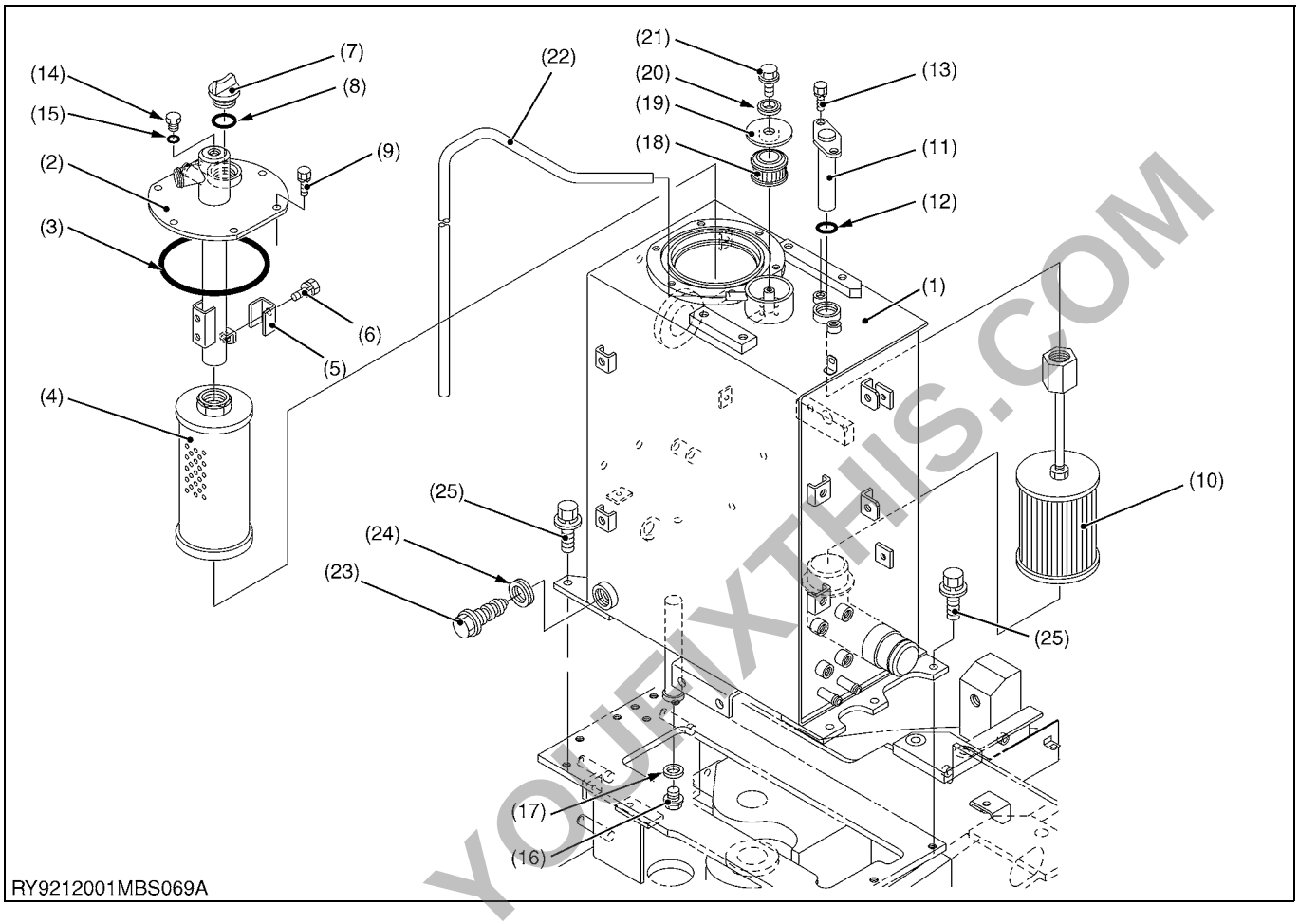
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[4] HYDRAULIC OIL TANK

(1) Hydraulic oil tank components



(1) Hydraulic oil tank
(2) Cover (tank)
(3) O-Ring
(4) Filter (return)
(5) Stopper (return filter)
(6) Bolt (M8 x 16)
(7) Plug (fill)
(8) O-Ring
(9) Bolt (M10 x 16)
(10) Filter, assy (suction)
(11) Pin (suction filter)
(12) O-Ring
(13) Bolt (M10 x 16)
(14) Plug (G1/4)
(15) O-Ring
(16) Plug
(17) Sealing washer
(18) Filter (blazer)
(19) Metal washer
(20) Sealing washer
(21) Flange holder
(22) Tube (blazer)
(23) Magnet plug
(24) Sealing washer
(25) Bolt (M12 x 30)

Tightening torque	Bolt (25)	77.5 to 90.2 N·m 7.9 to 9.2 kgf·m 57.2 to 66.5 lbf·ft

Apply thread locking compound (loctite 271) to the bolt (25)

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16. TROUBLESHOOTING

Front system troubleshooting

All front operations slow or not moving

Cause	Inspection point	Remedy	Reference page
Defect of the engine itself	Engine speed measurement	Adjust each engine part	
Insufficient hydraulic fluid volume or oil degradation	Check hydraulic tank oil level and oil quality	Replenish the hydraulic fluid supply or change the oil	
Suction line (suction filter) blockage	Inspect the suction line (suction filter)	Wash the suction line Replace the suction line	
Pilot filter blockage	Pilot filter blockage inspection	Replace pilot filter	
Pilot relief valve faulty operation or poor pilot pump performance	Pilot primary pressure measurement	Adjust, wash or replace pilot relief valve Replace pilot pump	
Poor main relief valve operation or seating	Main relief valve pressure measurement	Adjust, wash or replace main relief valve	
Poor unload valve operation or seating	Control valve unload pressure measurement	Wash unload valve seat surface or replace	
Drop in control differential pressure due to LS regulator spool stick	Pump LS regulator spool inspection	Wash LS regulator spool Replace LS regulator spool	
Defective pump installation coupling	Pump installation coupling inspection	Replace pump coupling	
Pump drive shaft breakage	Pump drive shaft inspection	Replace shaft	
Pump internal parts wear or damage	Pump inspection	Repair or replace pump	

Either pilot valve right or left front does not move or is slow

Cause	Inspection point	Remedy	Reference page
Pilot valve line filter blockage	Pilot valve line filter blockage inspection	Clean pilot filter line filter	
Defective pilot valve	Pilot secondary pressure measurement of applicable cylinder	Pilot valve disassembly, cleaning or replacement	

Low power of entire hydraulic system

Cause	Inspection point	Remedy	Reference page
Pilot relief valve faulty operation or poor pilot pump performance	Pilot primary pressure measurement	Adjust, wash or replace pilot relief valve Replace pilot pump	
Poor main relief valve operation or seating	Main relief valve pressure measurement	Adjust, wash or replace main relief valve	
Defective control differential pressure due to LS regulator spool stick	Pump LS regulator spool inspection	Wash LS regulator spool Replace LS regulator spool	

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Item		Factory Specification		Remarks
		KX057-4 (US, CA)	U55	
Front attachment				
• Max. dump height	ROPS	4180 ± 84 mm 164.6 ± 3 in.	4020 ± 80 mm 158.3 ± 3 in.	
	CAB	4180 ± 84 mm 164.6 ± 3 in.	4020 ± 80 mm 158.3 ± 3 in.	
• Max. dump height (Arm vertical)	ROPS	1520 ± 46 mm 59.8 ± 2 in.	1765 ± 53 mm 69.5 ± 2 in.	
	CAB	1520 ± 46 mm 59.8 ± 2 in.	1765 ± 53 mm 69.5 ± 2 in.	
• Min. turning radius	ROPS	2420 ± 73 mm 95.3 ± 3 in.	2460 ± 74 mm 96.9 3 ± in.	
	CAB	2420 ± 73 mm 95.3 ± 3 in.	2460 ± 74 mm 96.9 ± 3 in.	
• Min. turning radius (Left swing)	ROPS	2060 ± 62 mm 81.1 ± 2 in.	2080 ± 62 mm 81.9 ± 2 in.	
	CAB	2060 ± 62 mm 81.1 ± 2 in.	2080 ± 62 mm 81.9 ± 2 in.	
Blade				
• Width (STD)		1960 ± 5 mm 77.2 ± 0.2 in.	1960 ± 5 mm 77.2 ± 0.2 in.	
• Height (STD)		408 ± 10 mm 16.1 ± 0.4 in.	408 ± 10 mm 16.1 ± 0.4 in.	
• Width (Angle blade)		1960 ± 5 mm 77.2 ± 0.2 in.	1960 ± 5 mm 77.2 ± 0.2 in.	
• Height (Angle blade)		408 ± 10 mm 16.1 ± 0.4 in.	425 ± 10 mm 16.7 ± 0.4 in.	
• Max. lift above GL (STD)		440 ± 50 mm 17.3 ± 2 in.	440 ± 50 mm 17.3 ± 2 in.	
• Max. below GL (STD)		410 ± 50 mm 16.1 ± 2 in.	410 ± 50 mm 16.1 ± 2 in.	
• Max. lift above GL (Angle blade)		440 ± 50 mm 17.3 ± 2 in.	510 ± 50 mm 20.1 ± 2 in.	
• Max. below GL (Angle blade)		410 ± 50 mm 0.7 ± 0 in.	465 ± 50 mm 0.8 ± 0 in.	
Blade angle (Left / Right)		25 ± 3 °	25 ± 3 °	
Bucket tooth slaggish		73 mm > 2.87 in. >	73 mm > 2.87 in. >	Without shockless F=30 kgf (66 lbf)
Front boom lateral declination		10 mm > 0.39 in. >	10 mm > 0.39 in. >	
Blade's lateral declination		10 mm > 0.39 in. >	10 mm > 0.39 in. >	

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