GENERAL

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SAFETY DECALS

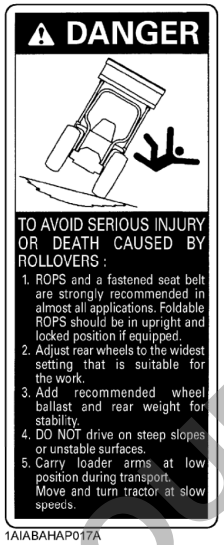
The following safety decals are installed on the machine.
If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

(1) Part No. 7J246-5643-1



1AIABAHAP016A

(2) Part No. 7J246-5641-1



1AIABAHAP017A

(3) Part No. 7J266-5649-2



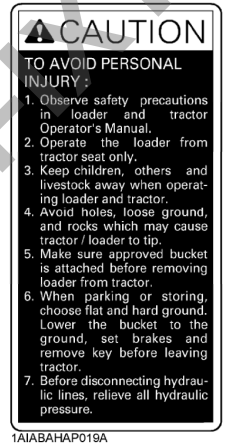
1AIABACAP077A

(4) Part No. 7J246-5642-1



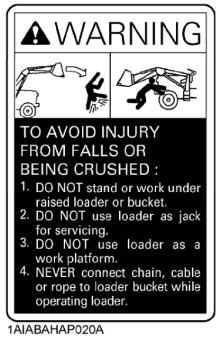
1AIABAHAP018A

(5) Part No. 7J246-5645-1

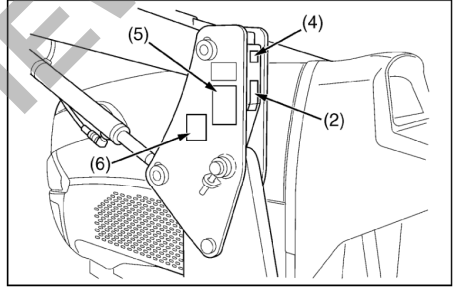


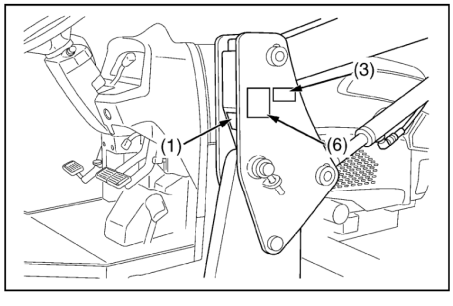
1AIABAHAP019A

(6) Part No. 7J246-5644-2
(Both sides)



1AIABAHAP020A





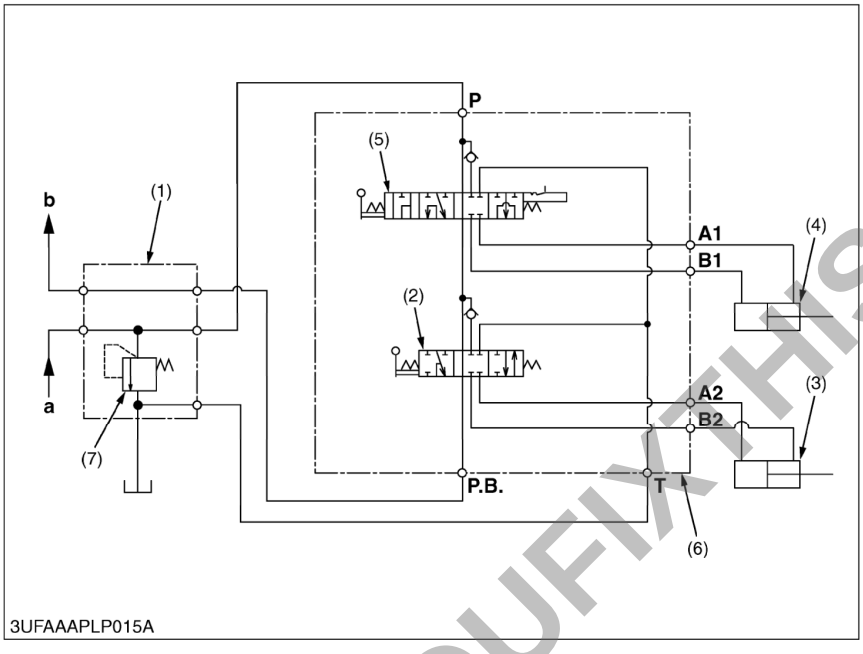
3UFAAAPCP001A

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1. CONTROL VALVE ASSEMBLY

[1] HYDRAULIC CIRCUIT



3UFAAAPLP015A

(1) Hydraulic Block
(2) Bucket Control Valve
(3) Bucket Cylinder
(4) Boom Cylinder
(5) Boom Control Valve
(6) Control Valve Assembly
(7) Relief Valve

P : P Port
T : T Port
A1 :A1 Port
B1 :B1 Port
A2 :A2 Port
B2 :B2 Port
P.B. :Power Beyond Port

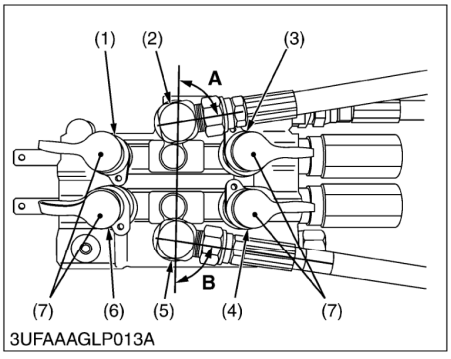
a : From Pump
b : To 3-Point Hydraulic System

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(2) Disassembling Control Valve



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Adapter and Elbow

1. Remove the nipples, adapters and elbows from the control valve.

(When reassembling)

- Take care not to damage the O-ring.
- Install all the elbows in parallel to the spool as shown in figure.

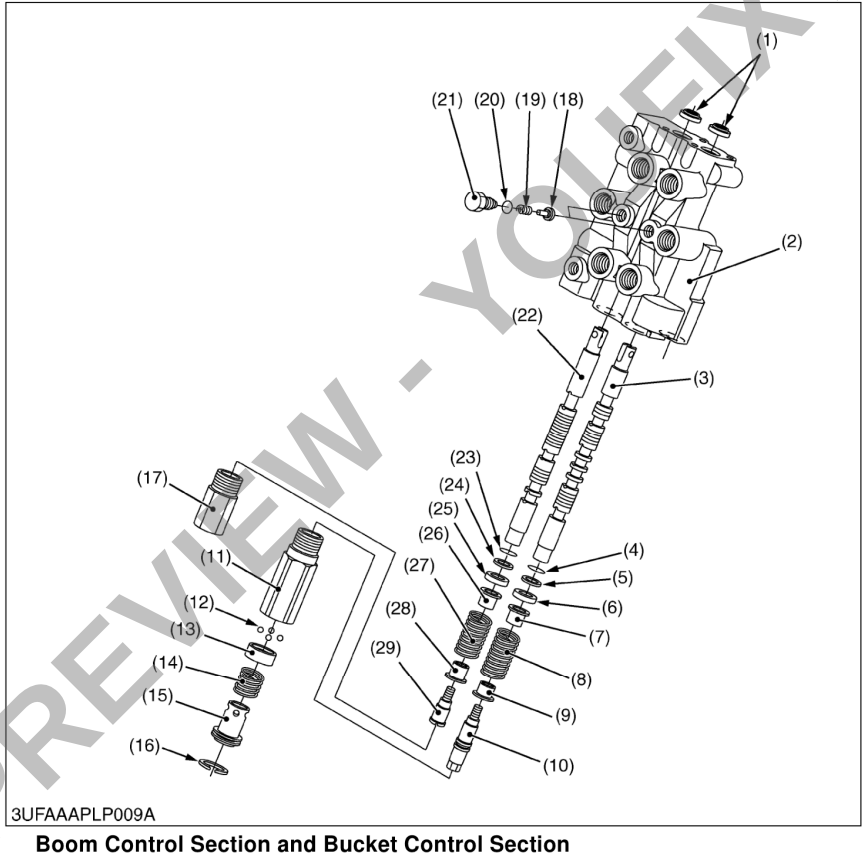
Tightening torque	Elbow	48 to 54 N·m 4.9 to 5.5 kgf·m 35 to 40 lbf·ft
	Adapter	39 to 60 N·m 4.0 to 6.1 kgf·m 29 to 44 lbf·ft

(1) **A1** Port (Adapter and Nipple)
(2) **P** Port (Adapter)
(3) **B1** Port (Adapter and Nipple)
(4) **B2** Port (Adapter and Nipple)
(5) **PB** Port (Elbow)
(6) **A2** Port (Adapter and Nipple)
(7) Dust Cap

A : 1.396 rad (80 °)
B : 1.396 rad (80 °)

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Disassembling Control Valve



3UFAAAPLP009A

(1) Dust Seal
(2) Valve Body
(3) Spool for Boom
(4) O-ring
(5) Backup Ring
(6) Collar
(7) Spring Holder 1
(8) Spring
(9) Spring Holder 2
(10) Detent Bolt 1
(11) Plug
(12) Ball
(13) Detent Ring
(14) Detent Spring
(15) Stopper
(16) Ring
(17) Plug
(18) Check Valve
(19) Spring
(20) O-ring
(21) Plug
(22) Spool for Bucket
(23) O-ring
(24) Backup Ring
(25) Collar
(26) Spring Holder 1
(27) Spring
(28) Spring Holder 2
(29) Bolt

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Boom Control Section and Bucket Control Section

1. Remove the plug (21) and take out the spring (19) and load check valve (18).
2. Remove the plug (11), (17) from valve body (2).
3. Remove the ring (16) and take out the stopper (15), detent spring (14), detent ring (13) and ball (12).
4. Draw out the spool (3), (22) with other component parts from valve body (2).

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4. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS (FOR FRONT LOADER AND BACKHOE)

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	⬡ 4 No-grade or 4T						⬡ 7 ⬡ 8.8 7T or Property class 8.8						⬡ 9 ⬡ 10.9 9T or Property class 10.9		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	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 (6 mm, 0.24 in.)	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 (8 mm, 0.31 in.)	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 (10 mm, 0.39 in.)	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 (12 mm, 0.47 in.)	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 (14 mm, 0.55 in.)	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 (16 mm, 0.63 in.)	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 (18 mm, 0.71 in.)	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 (20 mm, 0.79 in.)	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

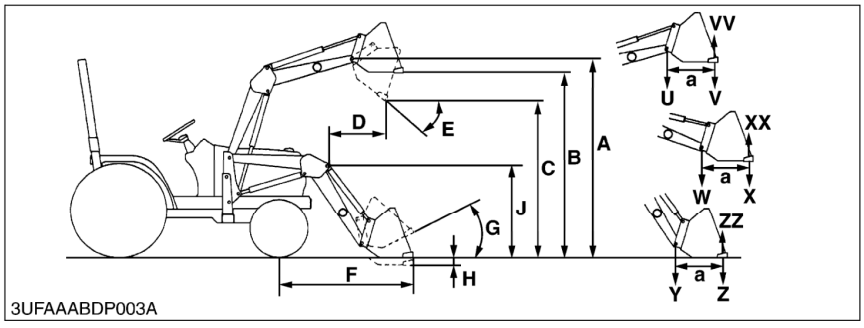
Material of opponent part	Ordinariness			Aluminum		
Unit / Diameter	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8 (8 mm, 0.31 in.)	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.9 to 1.2	6.5 to 8.6
M10 (10 mm, 0.39 in.)	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12 (12 mm, 0.47 in.)	29.5 to 49.0	3.0 to 5.0	21.7 to 36.1	31.4	3.2	23.1
M14 (14 mm, 0.55 in.)	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16 (16 mm, 0.63 in.)	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18 (18 mm, 0.71 in.)	172 to 201	17.5 to 20.5	127 to 148	–	–	–

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[3] DIMENSIONAL AND OPERATIONAL SPECIFICATIONS



3UFAAABDP003A

a : 500 mm (19.7 in.)

Dimensional Specifications

Loader Model		LA844
Tractor Model		MX5100
A	Maximum lift height (To bucket pivot pin)	2813 mm (110.7 in.)
B	Maximum lift height under level bucket	2609 mm (102.7 in.)
C	Clearance with bucket dumped	2208 mm (86.9 in.)
D	Reach at maximum lift height (Dumping reach)	664 mm (26.1 in.)
E	Maximum dump angle	47 deg.
F	Reach with bucket on ground	1937 mm (76.3 in.)
G	Bucket roll-back angle	43 deg.
H	Digging depth	228 mm (9.0 in.)
J	Overall height in carry position	1405 mm (55.3 in.)

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Operational Specifications

Loader Model		LA844
Tractor Model		MX5100
Lift capacity to maximum height (Bucket bottom mid point)		850 kg (1874 lbs)
U	Lift capacity to maximum height at bucket pivot pin	1108 kg (2443 lbs)
V	Lift capacity to maximum height at 500 mm (19.7 in.) forward	840 kg (1852 lbs)
W	Lift capacity to 1.5 m (59 in.) height at bucket pivot pin	1388 kg (3060 lbs)
X	Lift capacity to 1.5 m (59 in.) height at 500 mm (19.7 in.) forward	1124 kg (2478 lbs)
Y	Breakout force at bucket pivot pin	18584 N (4178 lbf)
Z	Breakout force at 500 mm (19.7 in.) forward	14504 N (3261 lbf)
VV	Bucket roll-back force at Maximum height	12415 N (2791 lbf)
XX	Bucket roll-back force at 1.5 m (59 in.) lift height	18897 N (4248 lbf)
ZZ	Bucket roll-back force at ground level	19554 N (4396 lbf)
Raising time		4.4 sec.
Lowering time		3.0 sec.
Bucket dumping time		1.9 sec.
Bucket roll-back time		2.4 sec.

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5. MAINTENANCE CHECK LIST

To keep the machine working in good condition as well as to avoid any accident and trouble, carry out periodic inspection and maintenance. Check the following points before use.

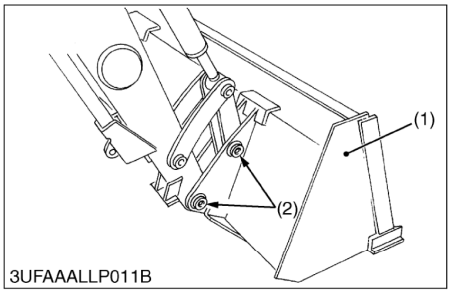
Service Interval	Check Points	Reference page
Daily (Each use)	Check the transmission fluid level	G-8
	Check the hydraulic hoses	G-8
Every 10 hours	Grease all grease nipples	G-9
	Lubricate joints of control level linkage	G-9
Every 50 hours	Check the main frame mounting bolts	G-9

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(3) Disassembling and Assembling Bucket, Boom and Hydraulic Cylinder



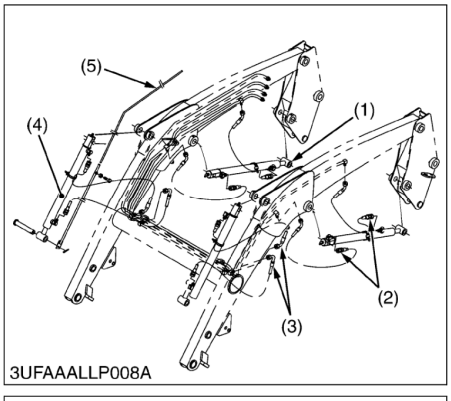
3UFAAALLP011B

Bucket

1. Remove the pins (2) and remove the bucket (1).

(1) Bucket (2) Pin

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Hydraulic Cylinders and Hydraulic Hoses

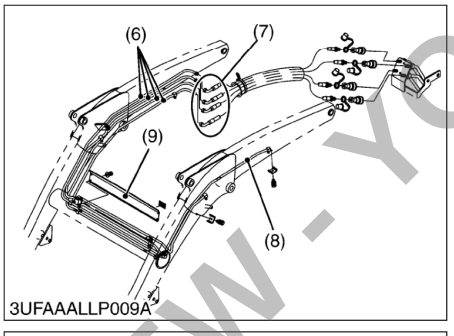
1. Remove the split pin and remove the indicator assy (5).
2. Disconnect the hydraulic hoses (3).
3. Remove the pins and remove the bucket cylinders (4).
4. Disconnect the hydraulic hoses (2).
5. Remove the pins and remove the boom cylinders (1).
6. Disconnect the hydraulic hoses (7) from the hydraulic tubes (6).
7. Remove the pipe cover (9).
8. Remove the hydraulic tubes (6), (8) from boom.

(When reassembling)

- Do not tighten firmly the lock nuts. The gap between the boss and the lock nut is 2 to 3 mm (0.08 to 0.12 in.).
- The hydraulic port should face inside and be careful of the direction of grease fittings.
- Adjust the direction of hydraulic hoses so that the level indicator rod does not touch to the hydraulic hoses.

NOTE

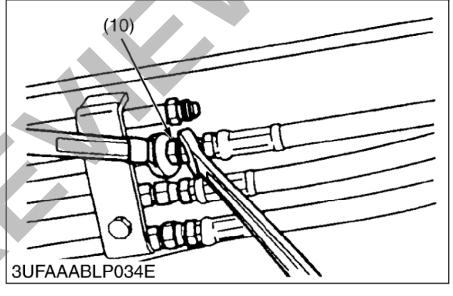
- **For fastening hydraulic hose with tube fitting (8), use two wrenches. Hold the fitting with a wrench, turn the hose with another wrench to avoid damage at welded area.**



3UFAAALLP009A

(1) Boom Cylinder
(2) Hydraulic Hose
(3) Hydraulic Hose
(4) Bucket Cylinder
(5) Indicator Assy
(6) Hydraulic Tube
(7) Hydraulic Hose
(8) Hydraulic Tube
(9) Pipe Cover
(10) Tube Fitting

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