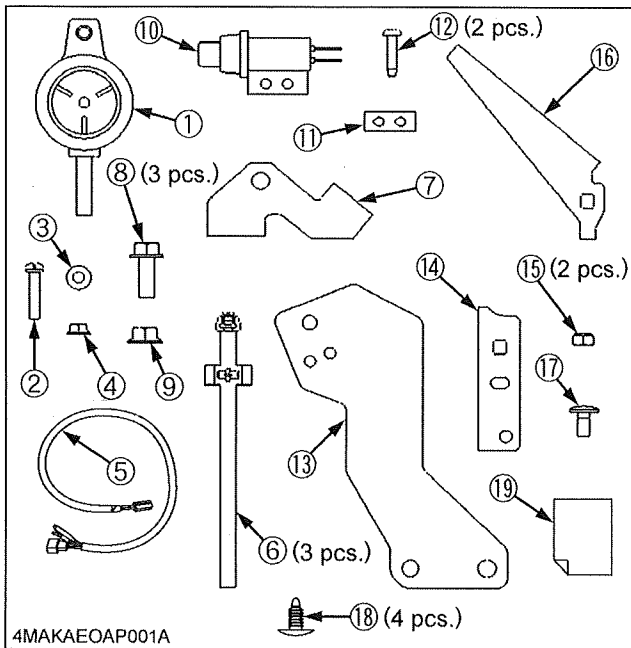


INSTRUCTION MANUAL BACKUP BEEPER KIT (K7591-99640) (KTC W/G #V5236) for KUBOTA UTILITY VEHICLE RTV-X900, RTV-X1120, RTV-X1100C, RTV-X1110

BEFORE INSTALLING BACKUP BEEPER

- Read all instructions and safety instructions in this manual and on your vehicle safety decals.
- Hang a "DO NOT OPERATE" tag in operator station.

■ CHECKING PARTS



■ PARTS LIST

Ref. No.	PART No.	PART NAME	Q'TY	REMARKS
1	32751-9686-0	BUZZER, BACK	1	
2	03024-50525	SCREW, SEMS (PAN HEAD)	1	M5 x 25
3	04013-50050	WASHER, PLAIN	1	
4	02761-50050	NUT, FLANGE	1	M5
5	K7591-9642-0	HARNESS, WIRE (BACK BEEPER)	1	
6	K1042-6125-0	CLAMP, CORD	3	
7	K7591-9646-0	STAY (BACK BUZZER)	1	
8	01754-50820	BOLT, FLANGE	3	M8 x 20
9	02751-50080	NUT, FLANGE	1	M8
10	K7591-9645-0	SWITCH (NO)	1	
11	K2581-6226-0	PLATE, SWITCH NUT	1	
12	03714-50520	SCREW, TAPPING	2	M5 x 20
13	K7591-9641-0	STAY (SWITCH, BACK BEEPER)	1	
14	K7591-9643-0	ARM (SWITCH, BACK BEEPER 1)	1	
15	02556-50060	NUT, LOCKING	2	M6
16	K7591-9644-0	ARM (SWITCH, BACK BEEPER 2)	1	
17	01611-50612	BOLT, SQUARE NECK	1	M6 x 12
18	K1211-8456-0	PUSH RIVET, 1/4	4	
19	K7591-9649-2	MANUAL, INST. (BACK BEEPER)	1	This paper

NOTE :

- Check the component parts according to the parts list.

■ ASSEMBLY PROCEDURE



WARNING

To avoid serious injury:

- Support vehicle securely on stands before removing a wheel.
- Never operate vehicle with loose wheel bolts and nuts.

IMPORTANT :

- When re-fitting a wheel, tighten the bolts and nuts to the following torques then recheck after driving the vehicle 200 m (220 yards) and thereafter according to service interval.



WARNING

To avoid serious injury:

- Park the vehicle on a firm and level surface.
- Apply the parking brake.
- Stop the engine and remove the key.
- For safety, disconnect negative(-) cable at the battery terminal before assembling.

IMPORTANT :

- Make sure the harness is kept off of any sharp edge, moving part, or hot surface during installation.

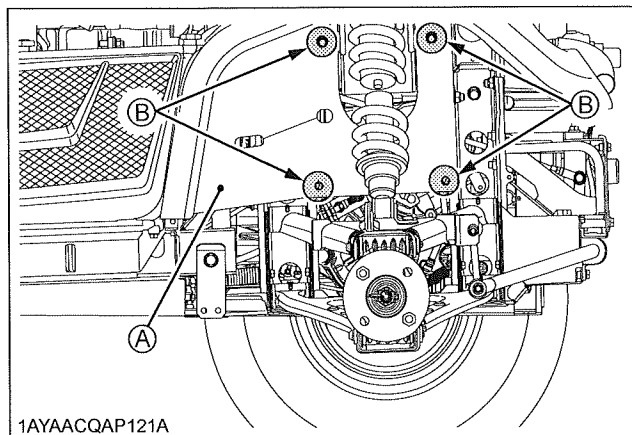
NOTE :

- < >: Ref. No. of Parts List.

Tightening torque chart

Grade	7T (Steel or Gray Iron) or CLASS 8.8					
Material of opponent parts	Ordinariness			Aluminum part		
	Size / Unit	N-m	kgf-m	lbf-ft	N-m	kgf-m
M6		9.81	1.00	7.23	-	-
		to 11.28	to 1.15	to 8.32	-	-
M8		23.54	2.40	17.36	17.6	1.80
		to 27.46	to 2.80	to 20.25	to 20.6	to 2.10

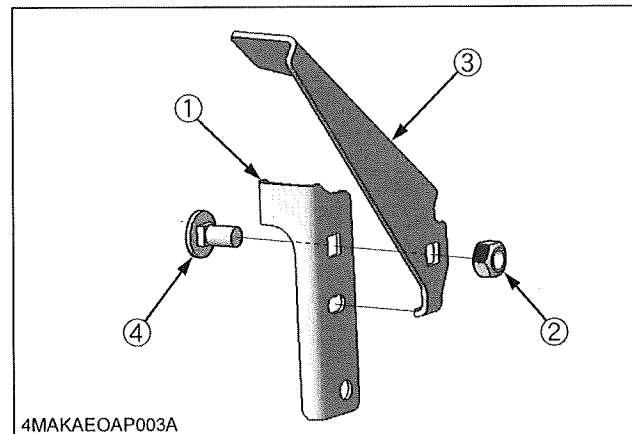
1. Jack up the vehicle at its jack-up point specified in the manual. Remove the rear left wheel.
See "JACK-UP POINT" in "PERIODIC SERVICE" section of operator's manual.
2. Detach the left-hand mud guard.



(A) Mud guard
(B) Push rivet

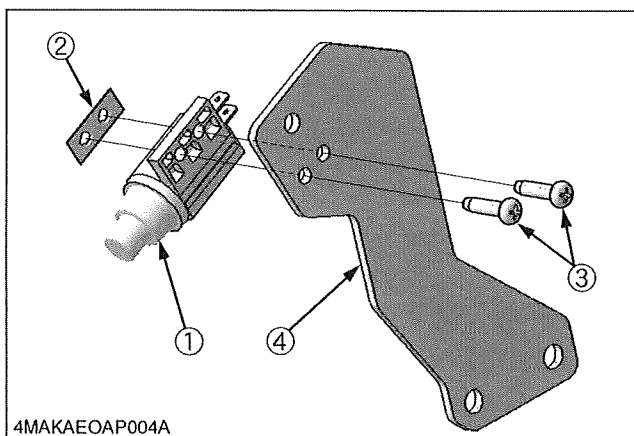
3. Raise the cargo box and lock in the raised position.
4. Attach the arm 2 to the arm 1.

Tightening torque	M6	9.81 to 11.28 N-m 1.00 to 1.15 kgf-m 7.23 to 8.32 lbf-ft
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- (1) Arm 1 <14>
(2) M6 nut <15>
(3) Arm 2 <16>
(4) Bolt <17>

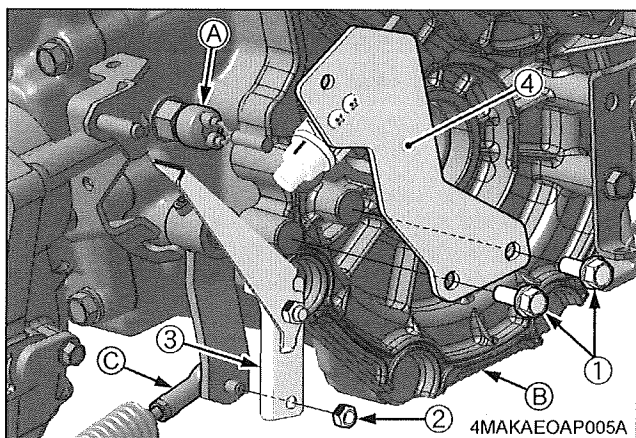
5. With the switch sandwiched between the plate and stay, fix the switch to the stay with the screws.



- (1) Switch <10>
 (2) Plate <11>
 (3) Screw <12>
 (4) Stay <13>

6. Install the preassembled arms to the transmission. In preassembling the arms, remove the nut from the shift cable and use the new M6 nut. Connect the backup beeper wire harness to the switch. Using the M8 x 20 bolts, fix the preassembled switch stay to the transmission.

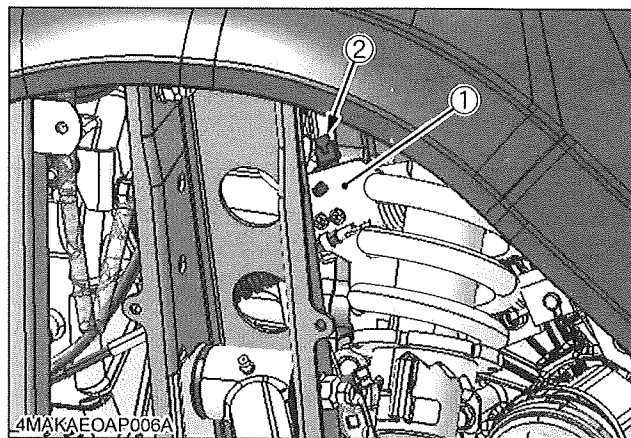
Tightening torque	M6	9.81 to 11.28 N-m 1.00 to 1.15 kgf-m 7.23 to 8.32 lbf-ft
	M8 (Aluminum)	17.6 to 20.6 N-m 1.80 to 2.10 kgf-m 13.10 to 15.10 lbf-ft



- (1) Bolt <8>
 (2) Nut <15>
 (3) Preassembled arms
 (4) Preassembled switch stay

- (A) Safety switch
 (B) Transmission
 (C) Shift cable

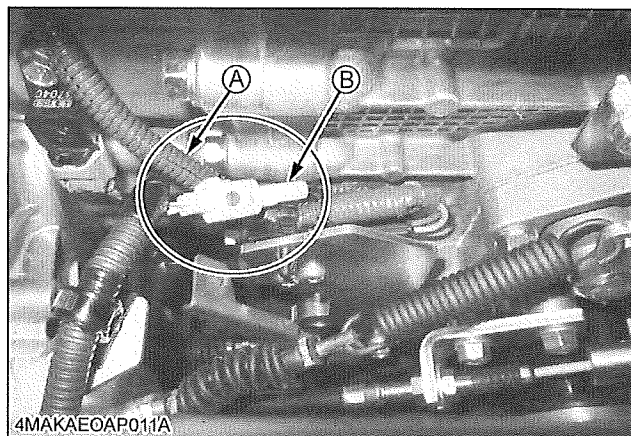
7. Clamp the wire harness to the stay. Move the arms and make sure the arms, this wire harness and the transmission safety switch wire harness remain out of contact with each other.



- (1) Backup beeper switch stay <13>
 (2) Clamp <6>

IMPORTANT :

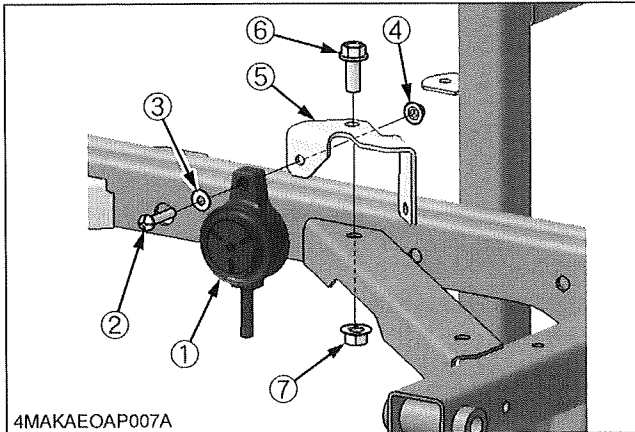
- Route NEUTRAL SWITCH wire harness above BACKUP BEEPER wire harness, as shown.



- (A) BACKUP BEEPER wire harness
 (B) NEUTRAL SWITCH wire harness

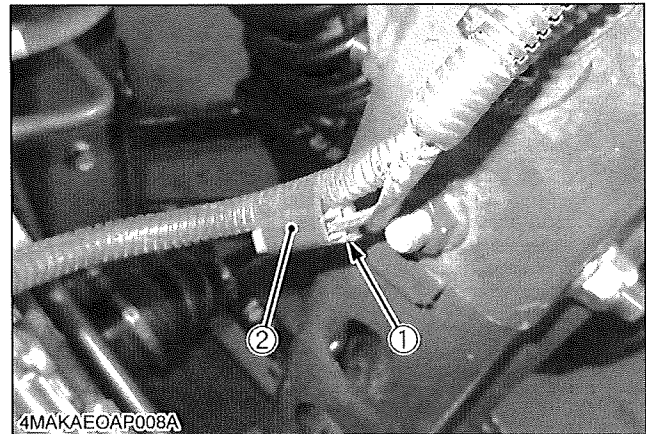
8. Using the M8 x 20 bolt and M8 nut, attach the stay onto the frame, and fix the buzzer to the stay (either the stay or the buzzer can be fixed first, however). See the figure below.

Tightening torque	M8	23.54 to 27.46 N-m 2.40 to 2.80 kgf-m 17.36 to 20.25 lbf-ft
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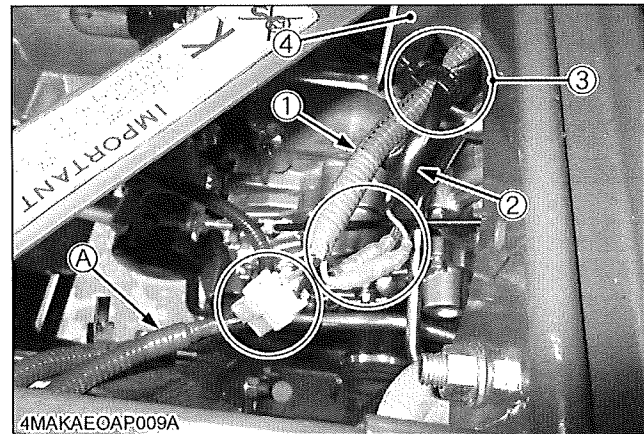
- (1) Buzzer <1>
(2) Screw <2>
(3) Washer <3>
(4) Nut <4>
(5) Stay <7>
(6) Bolt <8>
(7) Nut <9>

9. Peel the plastic tape off the main wire harness coupler at the rear right of the vehicle.



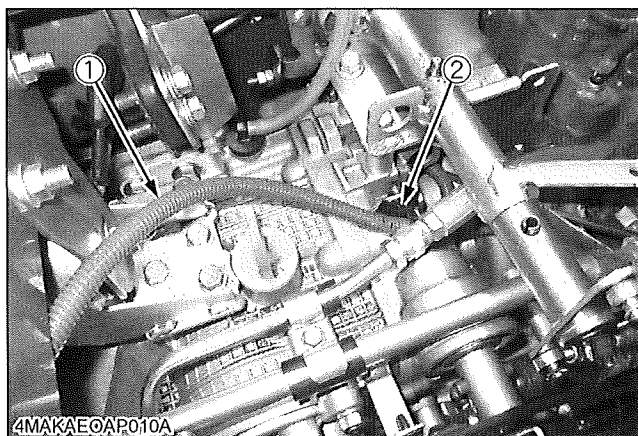
- (1) Main wire harness coupler
(2) Plastic tape

10. Connect the buzzer wire harness to the backup beeper wire harness terminal. Bundle extra wire harness and clamp it to the stay. Then connect the wire harnesses to the main wire harness coupler.



- (1) Backup beeper wire harness
(2) Buzzer harness
(3) Clamp <6>
(4) Buzzer stay <7>
(A) Main harness

11. Clamp the middle of the backup beeper wire harness at the position shown in the photo.

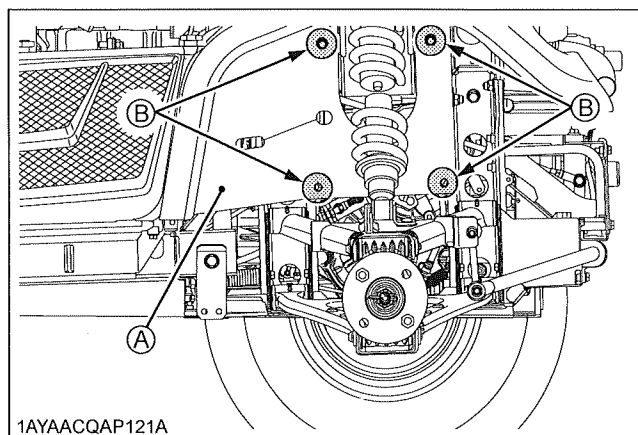


- (1) Wire harness <5>
(2) Clamp <6>

12. Attach the left-hand mud guard back in position.

IMPORTANT :

- Use new push rivet.



- (A) Mud guard
(B) Push rivet <18>

13. After installation, please check the backup beeper kit you installed does not contact with any parts (cable, wire harness, and hoses) of the machine body.
14. Install the rear left wheel back in place.

IMPORTANT :

- Cross tightening. Tighten bolt first.

Tightening torque	Aluminum wheel	90 to 110 N-m 9.2 to 11.2 kgf-m 66.4 to 81.1 lbf-ft
	Steel wheel	108 to 130 N-m 11.1 to 13.2 kgf-m 79.7 to 95.8 lbf-ft

