



**KUBOTA RTV 400, 500, AND 520 HARD SIDE CAB  
STROBE LIGHT KIT  
INSTALLATION INSTRUCTIONS  
(p/n's: V4318A / 77700-V4318A)**

The contents of this envelope are the property of the owner.  
Be sure to leave with the owner when installation is complete.

## **STROBE LIGHT INSTALLATION**

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### **BEFORE YOU START**

#### **HELPFUL REMINDERS:**

- A. Read and understand all instructions before beginning.
- B. Apply a black silicone sealant around the fasteners to prevent water leaks.

**APPROXIMATE INSTALLATION TIME: 1 HOUR**

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#### **TOOLS REQUIRED:**

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3/8" DRIVE RATCHET  
10mm DEEP SOCKET (3/8" DRIVE)  
INCH SERIES OPEN END WRENCHES  
METRIC SERIES OPEN END WRENCHES  
3/8" ELECTRIC DRILL  
7/32" DRILL BIT  
5/16" DRILL BIT  
1/2" DRILL BIT  
WIRE SNIPS  
CRIMPING AND STRIPPING TOOL  
BLACK SILICONE  
ELECTRICAL TAPE

## 1. VEHICLE PREP

1.1 Temporarily remove the bench seat by pivoting the seat up 90 degrees and removing the clips shown in figure 1.1. Save clips for re-installation in step 5.

1.2 Per fig. 1.2, disconnect the positive battery terminal and then the negative battery terminal. Loosen the two nuts holding the retaining bar against the battery. Rotate the threaded rod and retaining bar assembly back and down to remove the battery.



Fig. 1.1 (retaining clips for seat)

## 2. MOUNT STROBE LIGHT

2.1 Per fig. 2.1, cut the long wires coming out of the strobe light so they are only 6" long. Strip the newly cut ends 1/2" back.

2.2 Per figures 2.2 and 2.2.1, locate the circular embossed area on the top of the plastic roof. Mark three hole locations as follows: mark the center of the emboss, then mark 2" to the driver's side and 2" to the passenger's side to correspond with the two bolts and the wires on the bottom of the strobe light. Note: double check the decal on the top of the strobe light for the "Front" orientation direction. Drill a 5/16" hole in the center location and two 7/32" holes to the left and right of the large hole (4" center to center to match the bolt pattern on the strobe light). Install the supplied rubber grommet in the center hole.

2.3 Feed the two strobe light wires through the rubber grommet and position the strobe light bolts down through the roof holes. Note: black silicone can be applied around the two bolt holes, the rubber grommet, and the wires to seal out water. Secure in place using the supplied washers and nuts on the underside of the roof.

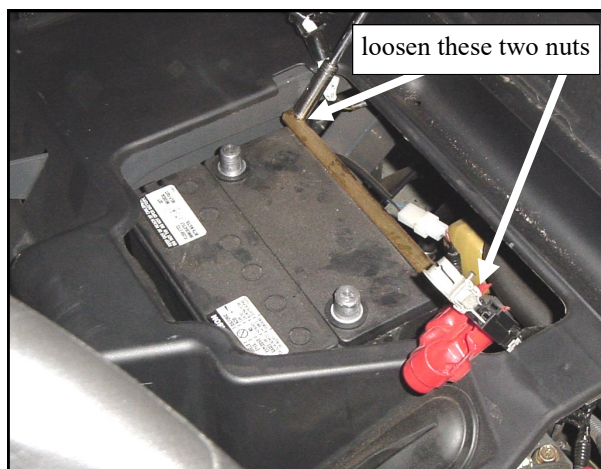


Fig. 1.2 (view of battery from driver's side) (RTV 500 shown)

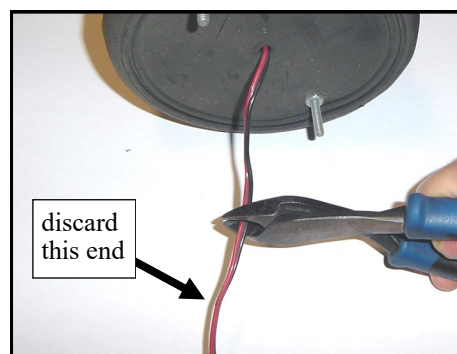


Fig. 2.1 (cut strobe light wires)

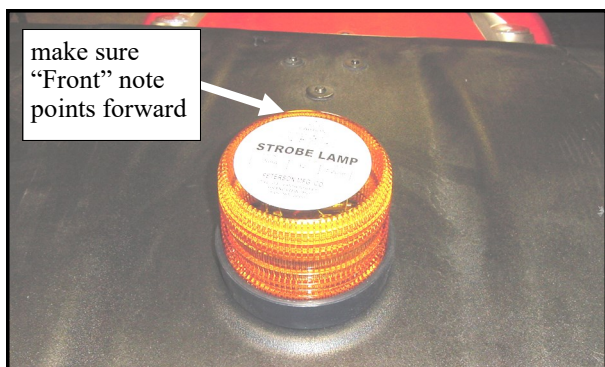


Fig. 2.2.1 (view from rear of vehicle)

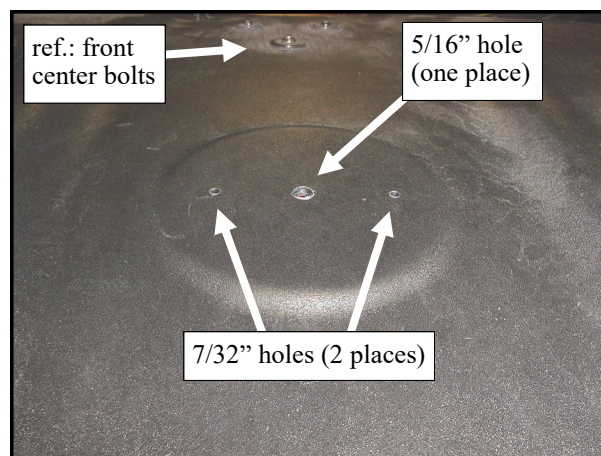


Fig. 2.2 (view from rear of vehicle)

### 3. WIRE HARNESSSES

#### For RTV 400 and 500

NOTE: only the first of three wire harnesses (see fig. 3.1) will be cable tied to the roof, which is removable. The other wire harnesses are cable tied directly to the vehicle.

3.1 Per figures 3.1 and 3.1.1, connect and crimp the two butt connectors to the bare wires on the strobe light making sure that the black wire on the harness connects to the black wire on the strobe light. Repeat for the red wire (red to red). Per fig. 3.1.2, orient the wire harness so the red power pole connector is located by the top rear passenger's side of the ROPS (Roll-Over Protective Structure) cross member tube.

3.2 Per fig. 3.2, attach adhesive-backed cable tie holders to the rear steel roof mount (note: a white piece is shown for contrast). Apply to a clean, dry surface at room temperature for best adhesion. Cable tie the first wire harness to the adhesive holders so that only the red power pole connectors need to be disconnected when the roof is removed.

3.3 Per fig. 3.3, cable tie the red power pole end of second wire harness to the ROPS tubing on the rear passenger's side as shown in fig. 3.1.2 on the previous page (note: both wire harnesses are shown).

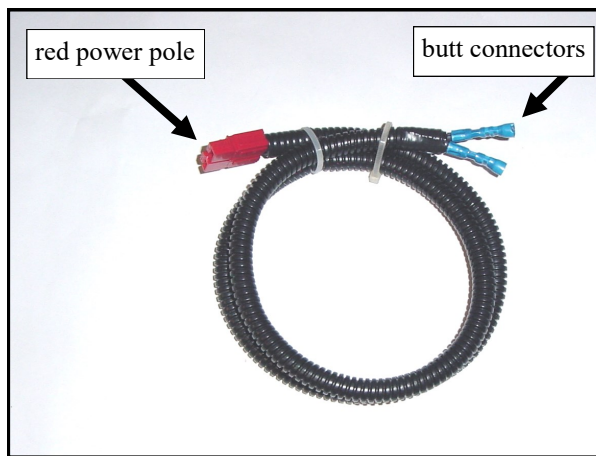


Fig. 3.1 (wire harness 32" long)

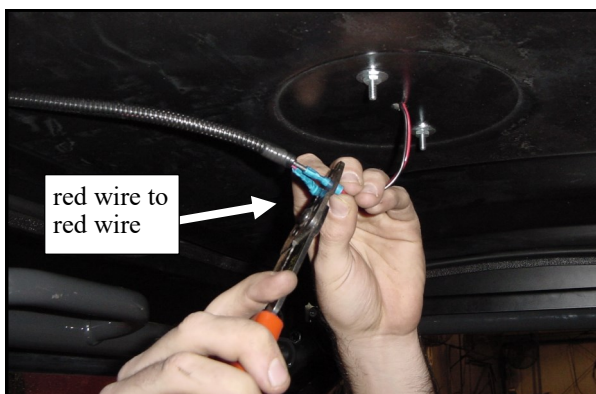


Fig. 3.1.1 (view from front of passenger's side)

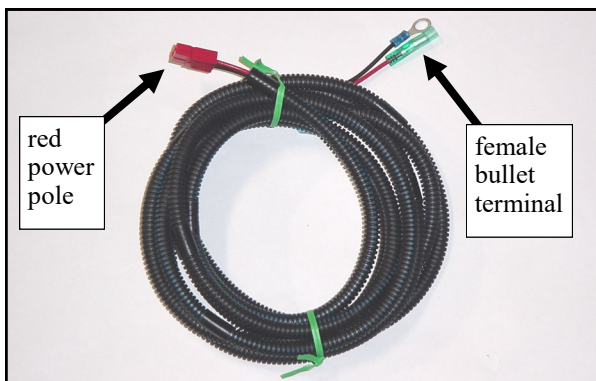


Fig. 3.3 (wire harness 108" long)

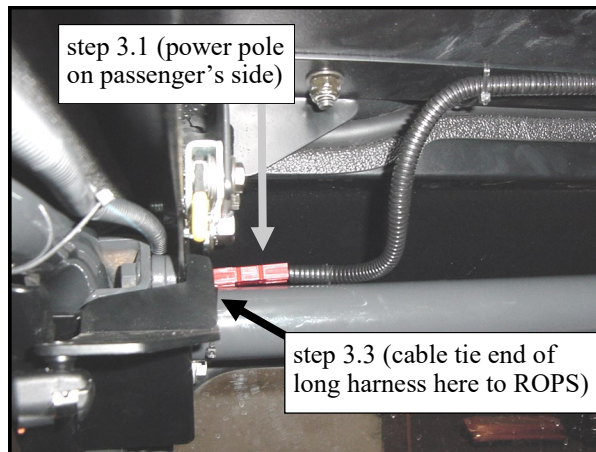


Fig. 3.1.2 (view from front passenger's side)

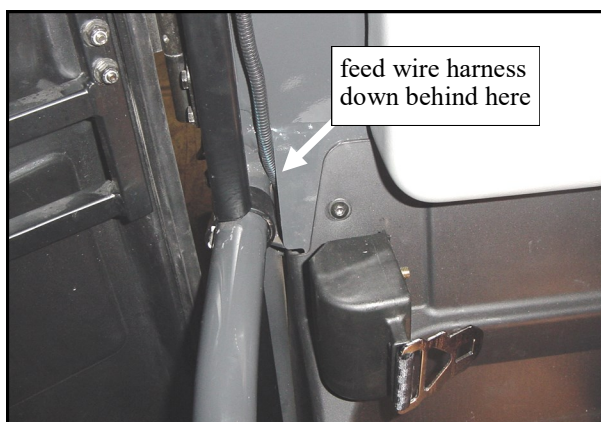


Fig. 3.4 (view of passenger's hip restraint tube)

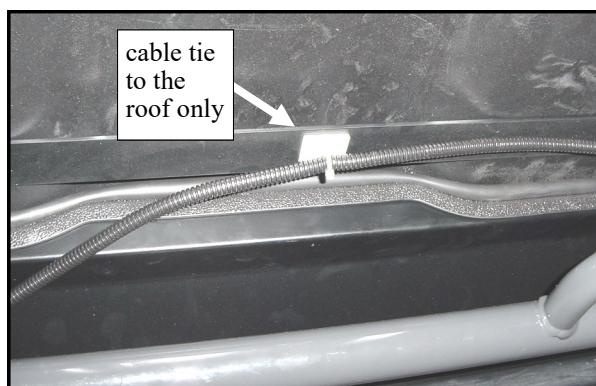


Fig. 3.2 (view from front passenger's side)

### 3. WIRE HARNESSES (cont'd.)

3.4 Run the long second wire harness down rear ROPS, then per fig. 3.4, feed the harness out the opening just to the inside of the passenger's side hip restraint tube as shown. Cable tie it along the way.

#### For RTV 500 only

3.5a Per fig. 3.5a, feed the harness through the large hole around the radiator hose on the inboard side (driver's side of the hole as shown).

3.6a Per fig. 3.6a, feed the harness into the battery compartment by going over the frame tube as shown.

3.7a Per fig. 3.7a, run the insulated female terminal end of the third wire harness (112" long, see fig. 3.7.1) from the battery compartment to the foot pedal area. Feed the harness alongside the original equipment harnesses in the channel forward of the battery compartment as shown.

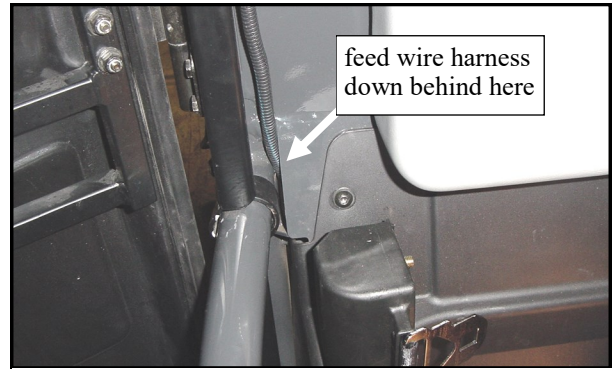


Fig. 3.4 (view of passenger's hip restraint tube)

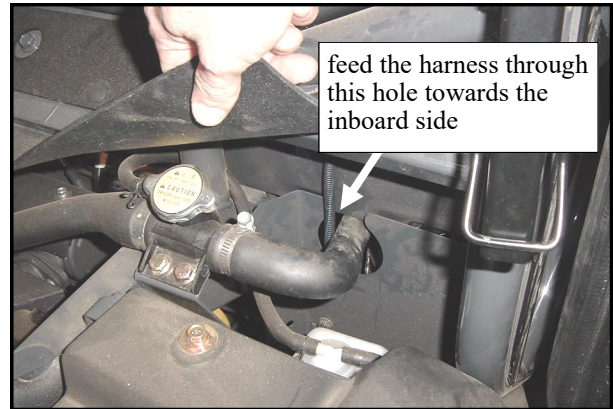


Fig. 3.5a (view from rear of passenger's side) (RTV 500)



Fig. 3.6a (view from driver's side) (RTV 500)

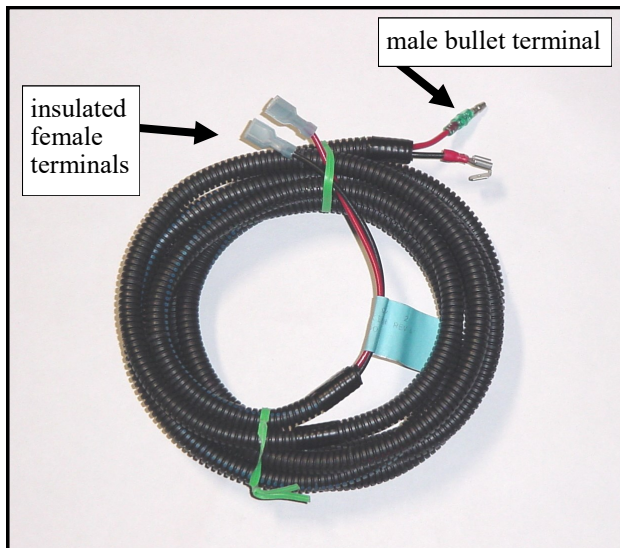


Fig. 3.7.1 (wire harness 112" long (no powerpoles))

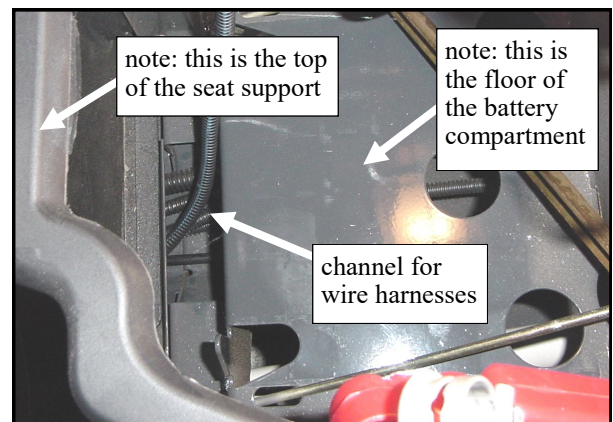


Fig. 3.7a (view from driver's side) (RTV 500 Shown)

### 3. WIRE HARNESES (cont'd.)

#### For RTV 400 only

3.5b Per fig 3.5b, feed the harness inboard over the frame tube as shown.

3.6b Per fig. 3.6b, feed the harness under the seat support and into the driver's side under-seat compartment.

3.7b Per fig. 3.7b, begin by feeding this new harness alongside the original equipment harnesses in the channel forward of the air cleaner under the seat as shown.

#### For RTV 400 and 500

3.8 Per fig. 3.8, the harness must pass underneath the floor mat until it reaches the foot pedals as shown. Note: the plastic pine tree clips holding the rubber floor mat down do not have to be removed. There is enough play to work the harness underneath the mat. Continue to pull the harness through the channel until the end of the harness is flush with the top of the plastic seat support. Leave approximately 6" out of the channel. Connect the male bullet terminal of wire harness no. 3 (see fig. 3.7.1 on page 4) to the female bullet terminal on wire harness no. 2 (see figure 3.3 on page 3).

3.9 Per fig. 3.9, feed the harness into the hood area pulling all the loose harness and routing it safely over to the driver's side for connection to a switch which will be mounted to the dash on the left side of the steering wheel area.

3.10 Per figures 3.10, 3.10.1, and 3.10.2 (all on the next page), the supplied toggle switch can be mounted in one of the blank rectangular knock out plugs or anywhere else at the installer's discretion. To mount the switch, drill a 1/2" hole. If drilling into the dash, double check clearances on the opposite side to avoid damage when the drill bit passes through. Install the switch using the bevel and nut as required.

3.11 Connect the two insulated female terminals (from figure 3.7.1 on page 4) to the back of the toggle switch. Note: when done the installation, if the switch operates opposite of desired (up for on and down for off), rotate the switch around

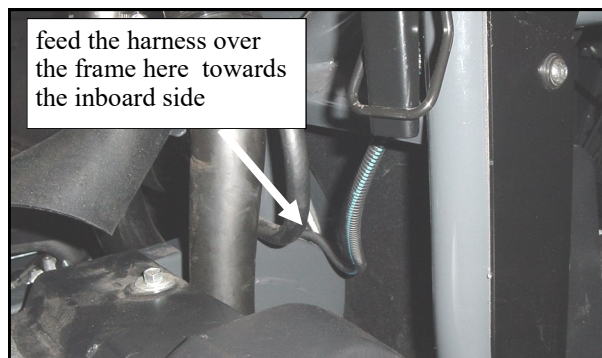


Fig. 3.5b (view from rear of passenger's side) (RTV 400)

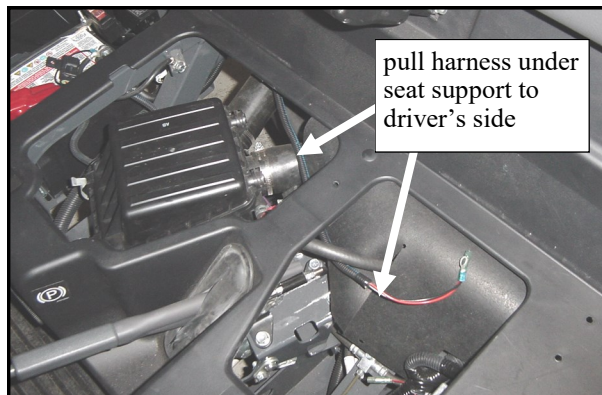


Fig. 3.6b (view from driver's side) (RTV 400)

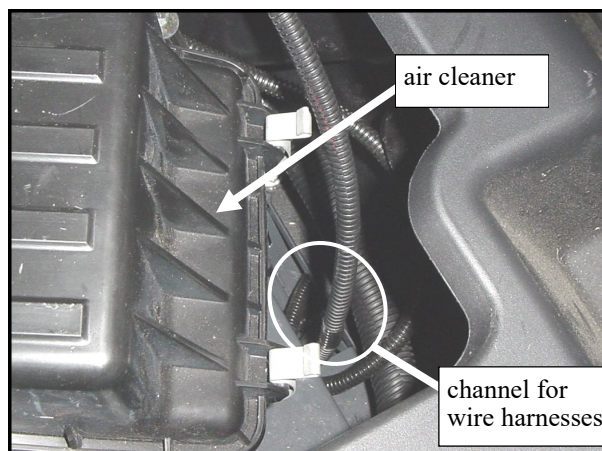


Fig. 3.7b (view from passenger's side) (RTV 400 shown)

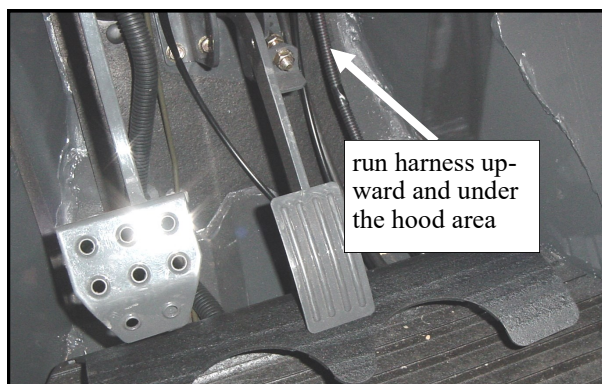


Fig. 3.9 (view from driver's side)



Fig. 3.8 (view from driver's side)

## 4. POWER CONNECTION

### With Wiper Kit V4367 (RTV 400 and 500):

4.1a If this kit is installed along with a wiper kit, connect the piggy-back push-on connector on the red wire to the piggy-back push-on connector on the relay. Secure the connectors with electrical tape.

4.2a Attach the ring terminal on the black wire to the bolt on the negative battery post clamp.

### For RTV 500 only (without wiper kit):

4.1b Per the diagram on page 7, cut off the piggy-back push-on connector on the red wire that goes to the switch. Be sure to cut close to the terminal to minimize wire loss. Strip the end of the wire and crimp on a male bullet connector.

4.2b Per the diagram on page 7, cut off the ring terminal on the black wire located at the end of the second wire harness. Be sure to cut close to the terminal to minimize wire loss. Strip the end of the wire and crimp on a female bullet connector.

4.3b Per fig. 4.3b, carefully cut through the blue tape to expose (key-controlled) vehicle bullet connectors located under driver's seat. Connect the newly installed male bullet connector to the female bullet connector on the red/yellow wire. Connect the newly installed female bullet connector to the male bullet connector on the black wire.

### For RTV 400 only (without wiper kit):

4.1c Per the diagram on page 7, cut off the piggy-back push-on connector on the red wire that goes to the switch. Be sure to cut close to the terminal to minimize wire loss.

4.2c Per the diagram on page 7, cut off the piggy-back push-on connector on the red wire that goes to the switch. Be sure to cut close to the terminal to minimize wire loss. Cut off approximately 2" from the red wire.

4.3c Strip the ends of the red wire and both ends of the 2" red wire. Twist the end of the red wire on the harness and one end of the 2" red wire, and crimp on a male bullet connector. Crimp a female bullet connector to the other end of the 2" red wire.

4.4c Carefully cut through the blue tape to expose one (key-controlled) vehicle female bullet connector located under driver's seat. Connect the newly installed male bullet connector to the female bullet connector on the red/yellow wire.

NOTE: The RTV 400 has a single female key-controlled bullet terminal available for accessories.

4.5c Per figure 4.5c, attach the ring terminal on the black wire to the frame using one of the grounded screws under the driver's side under-seat compartment.

## 5. FINISHING TOUCHES:

Reconnect the battery. Turn the key to the "on" position. Test the work lights. If the lights work, button everything up. Cable tie any loose wire at desired locations. Re-install the seat, lower the hood, lower the dump bed, etc..

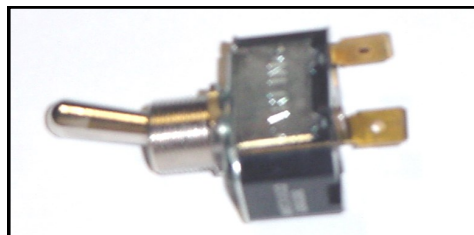


Fig. 3.10 (supplied toggle switch)



Fig. 3.10.1 (view from driver's side)



Fig. 3.10.2 (view from driver's side)

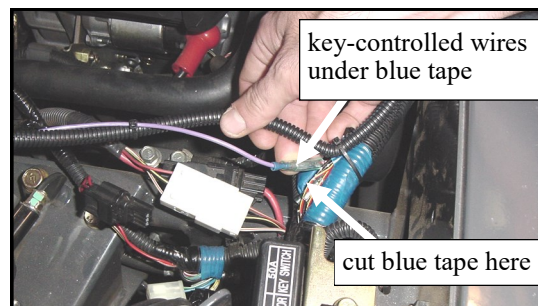


Fig. 4.3b (key-controlled wire) (RTV 500 shown)

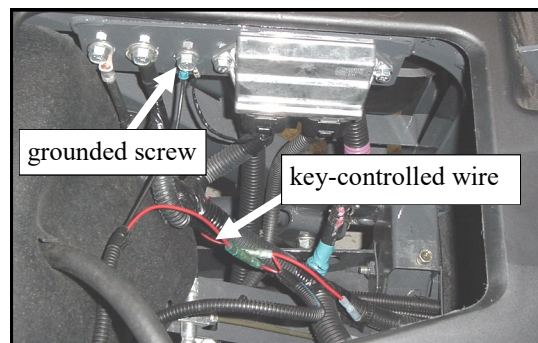


Fig. 4.5c (RTV 400 power connection)



RED  
BLACK

CUT AND STRIPPED WIRE ENDS (QTY.: 2)

IMPORTANT: CONNECT  
RED WIRE TO RED WIRE

RED  
BLACK

BUTT CONNECTORS (QTY.: 2)

RED POWER POLE  
CONNECTORS

RTV 500 ONLY

REMOVE THIS RING TERMINAL

ASSEMBLE A FEMALE BULLET CONNECTOR  
ONTO THE BLACK WIRE  
TO CONNECT TO VEHICLE  
KEY-CONTROLLED MALE  
BULLET CONNECTOR

FEMALE BULLET CONNECTOR

MALE BULLET CONNECTOR

RED  
BLACK

ASSEMBLE A MALE BULLET CONNECTOR  
ONTO THE RED WIRE  
TO CONNECT TO VEHICLE  
KEY-CONTROLLED FEMALE  
BULLET CONNECTOR

TOGGLE SWITCH

FEMALE PUSH-ON CONNECTORS

RED  
RED

RED

RED

REMOVE THIS PIGGY-BACK  
PUSH ON CONNECTOR

REF.: TOGGLE SWITCH HAS  
MALE PUSH-ON CONNECTORS

REQUIRED FOR RTV 400 ONLY:  
ASSEMBLE A RED WIRE AND FEMALE  
BULLET CONNECTOR ONTO THE  
RED WIRE TO ALLOW FOR  
ADDITIONAL ACCESSORIES

## V4318A / 77700-V4318A STROBE LIGHT KIT

### SERVICE PARTS

REF. NO.	KUBOTA P/N	CODE NO.	QTY.	DESCRIPTION
1	70000-01035	9LEDS3	1	STROBE LIGHT ONLY, AMBER, LED
2	77700-01073	K500-SLWH1	1	WIRE HARNESS (32" LONG)
3	77700-01074	K500-WLASLWH1	1	WIRE HARNESS (108" LONG)
4	77700-01075	K500-WLWH3	1	WIRE HARNESS (112" LONG)
5	70000-01083	AC1022	1	BULLET CONNECTOR (MALE)
6	70000-01147	V4218P2	1	BULLET CONNECTOR (FEMALE)
7	77700-01076	KU500SLK-HWK	1	HARDWARE BAG
8	70000-01059	9TS01	1	TOGGLE SWITCH
9	77700-01077	V4318P1	1	INSTALLATION INSTRUCTIONS, STROBE LIGHT KIT
10	77700-01094	CUR196	1	STROBE LIGHT SWITCH DECAL

