Turn Signal Installation Instructions

Before Starting the Installation:
1. **REVIEW THE WIRING DIAGRAM ON PAGE 4**
2. Locate and disconnect the battery.
3. Determine where on the paneling near the Front and Rear light casing you will be installing the **LED Turn Signal Lights**
4. Determine where on the Dash you are going to mount the Turn Signal Switch and the **LED Turn Signal Indicators**.

View the Install Video at www.ATV-Tek.com

Installing the Rear (Red) LED Turn Signal Lights onto the UTV Paneling.
1. Determine the best spot on the UTV Paneling that is near the Rear Tail Light Casing and drill a 3/4" hole.

2. Push the Red **LED Turn Signal Light** through the outside of the newly drilled hole until the grommet is seated into place.

Installing the Front (Amber) LED Turn Signal Lights.
1. Determine the best spot on the UTV Paneling that is near the Front Head Light Casing and drill a 3/4" hole.

2. Push the Amber **LED Turn Signal Light** through the outside of the newly drilled hole until the grommet is seated into place.

Steps for all 4 LED Turn Signal Lights.

Grounding
1. Connect a **#10 Ring Terminal** to the black wire on **LED Turn Signal Light**. If the black wire is not long enough, use the included black wire and a Butt Connector to extend it.

2. Pre Drill a hole on the metal. Insert the **#10 Self Drilling Screw** through the **#10 Ring Terminal** and Screw into metal.

3. Do this for all 4 **LED Turn Signal Lights**.

Connecting and Running Wire to the Turn Signal Switch and Indicator Lights.
1. Connect the Red Wire on **LED Turn Signal Light** with the included **Red Wire**. Use **Butt Connector 18-22 Gauge**. Leave ample length and run the **Red Wire** from **LED Turn Signal Light** to the **Turn Signal Switch** located on the Dash.

2. Zip Tie the red wire tight to the frame so that mud, snow and other debris will not damage or pull the wire away from the frame. If possible run wire between the exterior paneling and the frame of the UTV.

3. Do this for all 4 **LED Turn Signal Lights**

Parts:

1 - Turn Signal Switch

1 - Flasher & D Mount Bracket

2 - LED Turn Signal Indicator Light

1 - Fuseable Link & 5 Amp Fuse

4 - LED Turn Signal Light (2 Amber - 2 Red)

1 - 1/4" Ring Terminal

9 - #10 Ring Terminal

1 - Butt Connector 14-16 Gauge

12 - Butt Connector 18-22 Gauge

3 - Female Spade Connectors

1 - #10 Self Drilling Screw

WIRES CONNECTED TO LED TURN SIGNAL

GROUND ATTACHED TO CHASSIS

Installing the Turn Signal Switch and Turn Signal Indicators

1. Things to consider: Mount the switch and indicators in a place that the driver can easily reach and does not interfere with other controls. It is recommeded that before drilling the holes you use masking tape to make marking easier and to protect the finish of the UTV's Dash

2. Use 1/2" drill bit to drill a hole in the desired location for the **Turn Signal Switch**. Use 5/16" drill bit to drill 2 holes for the **Turn Signal Indicators**.

3. Install **Turn Signal Indicators** into newly drilled holes. Wait to install **Turn Signal Switch**, it is easier to connect all the necessary wires to it.

4. Use **Butt Connector 18-22 Gauge**, connect **BOTH** black wires coming from the **2 (TWO) Turn Signal Indicators** to a **SINGLE** length of Black Wire. Connect a **#10 Ring Terminal** and ground it to metal under the dash using a **#10 Self Drilling Screw.**

5. Use **Butt Connector 18-22 Gauge**, connect a length of Red wire to the brown wire on RIGHT **Turn Signal Indicator.**

6. Take Red Wires coming from the **Right Front** and **Right Rear LED Turn Signals** and the **Right Turn Signal Indicator**. Connect those **3 (three)** wires together using a **#10 Ring Terminal**. Connect Ring Terminal to the Right side of **Turn Signal Switch**.

7. Follow Steps 5 and 6 for the Left side. Then connect that #10 Ring Terminal to the Left side of the Turn Signal Switch.
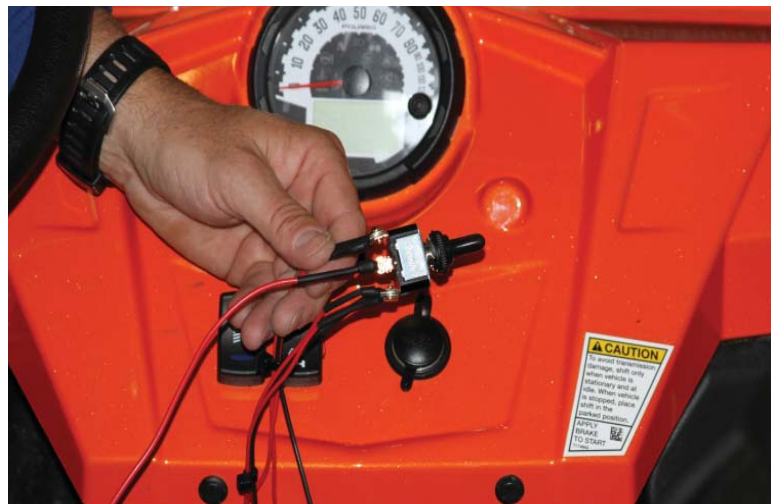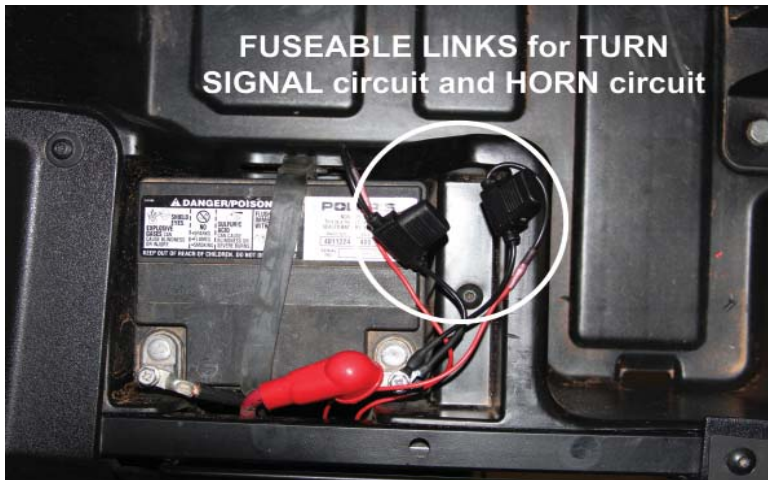
Installing the Solid State LED Flasher

1. Determine a place under the dash where the **Flasher** can be mounted. Mount in same place as **Turn Signal Indicator** ground. Or mount on metal at another location using #10 Self Drilling Screw. Wait until step 2 to attach **Flasher.**

2. Connect **Female Spade Connector** and **#10 Ring Terminal** to 6" length of **Black Wire**. Then Connect to (-) negative post on **Flasher**. Attach **Flasher** (using Rubber Coated **D-Mount Bracket**) and Ground using **#10 Self Drilling Screw**.

3. Connect a **Female Spade Connector** and a **#10 Ring Terminal** to a length of **Red Wire**. Connect Ring Terminal to the Center Screw on **Turn Signal Switch**. Connect the **Female Spade Connector** to Male Spade marked "L" on **Flasher**.

4. Install **Turn Signal Switch** in the 1/2" hole that was previously drilled.

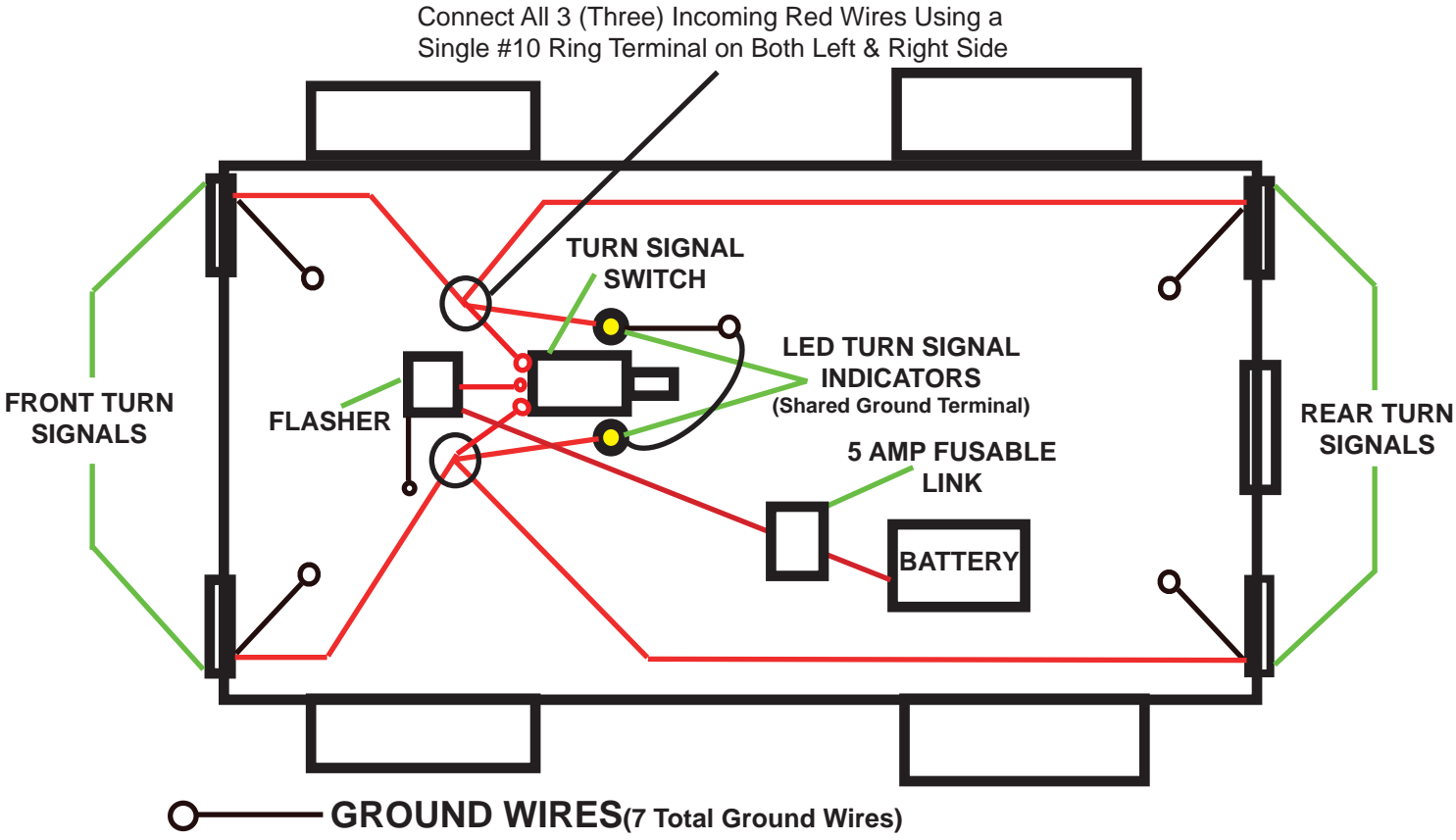FLASHER - Attached to Metal Chassis under the Dash
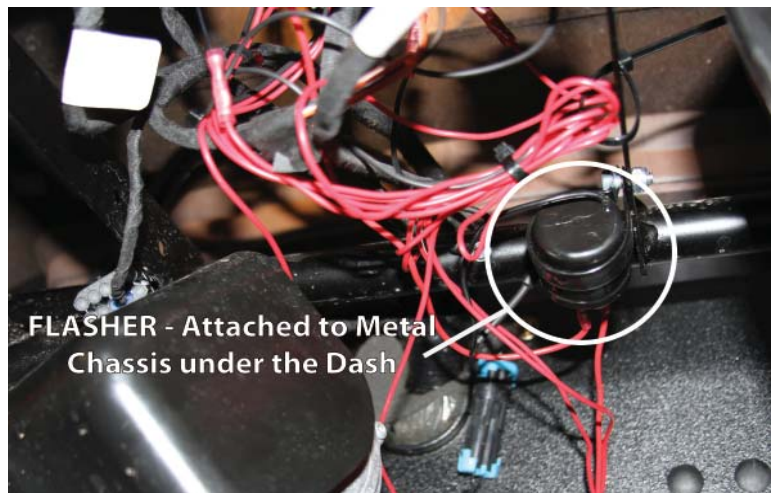
5. Connect **Female Spade Connector** to length of **Red Wire**. Attach to **Flasher** post marked (+) positive. Run **Red Wire** to battery.

6. Cut red wire loop on the **Fuseable Link**. Leave enough wire on both side to make a connection. Use **Butt Connector 14-16 Gauge** to Connect the Red Wire coming from the **Flasher** to a red wire on **Fuseable Link**. Connect **1/4" Ring Terminal** to other wire on Fusable Link.

7. With battery disconnected, connect **1/4" Ring Terminal** to Positive (+) Terminal on the battery.

8. Insert **5 AMP Fuse** into **Fuseable Link**

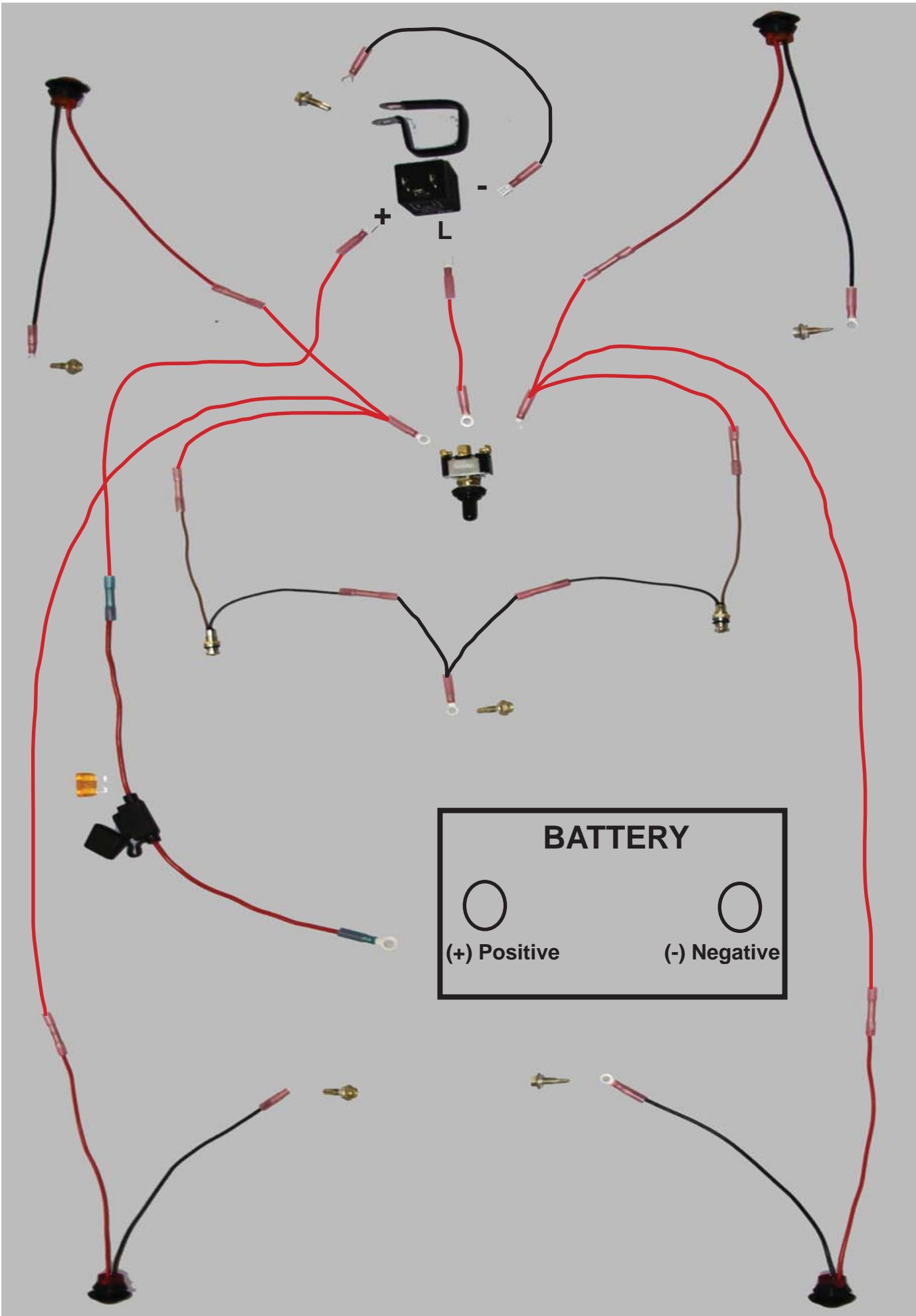9. Reconnect battery by first connecting the Positive (+) side and then the Ground (-).

FUSEABLE LINKS for TURN SIGNAL circuit and HORN circuit

NOTE: LED lights and Flasher are Polarity sensitive. If you hook them up backwards they will not work.

WARNING: If you short out the solid state Flasher, it will be permanently damaged. Use caution not to short out the Flasher unit.

View the Install Video at
www.ATV-Tek.com

Connect All 3 (Three) Incoming Red Wires Using a Single #10 Ring Terminal on Both Left & Right Side

TURN SIGNAL SWITCH

LED TURN SIGNAL INDICATORS
(Shared Ground Terminal)

FRONT TURN SIGNALS

FLASHER

5 AMP FUSABLE LINK

BATTERY

REAR TURN SIGNALS

GROUND WIRES(7 Total Ground Wires)

+

-

L

BATTERY

(+) Positive

(-) Negative

License Plate Bracket & Light Installation

Parts:

1 - License Plate Bracket

1 - LED Bolt Light

1 - #10 Self Drilling Screw

2 - 1/4" x 1 Bolt

2 - 1/4" Flat Washer

1 - T-Tap Connector

1 - Male Spade Connector

2 - 1/4" Lock Nut

1 - #10 Ring Terminal

2 - Butt Connector 18-22 Gauge

Installing the License Plate Bracket:

1. Determine a place on the rear of the vehicle for the **License Plate Bracket** to be mounted to provide an unobstructed view of the license plate.

2. Attach the **LED Bolt Light** to the top center hole of the **License Plate Bracket**. CAUTION: Do NOT overtighten LED Bolt Light. The hollow Bolt is not as strong as a typical bolt.

3. Drill a 1/2" hole that the rear of the **LED Bolt Light** casing and wires can slide into.

4. Slide the rear casing and wires of the **LED Bolt Light** Case into the newly drilled hole (while attached to the **License Plate Bracket**). Level the Bracket and Mark the two holes for the 1/4" x 1 Bolts. Remove the Bracket and drill 2 (two) 1/4" holes.

5. Re-Insert and attach the **License Plate Bracket** using the **1/4" x 1 bolt, Flat Washer** and **Lock Nut**.

1/2" Hole for LED Bolt Light Casing

Use these slots to Mark the 1/4" Holes
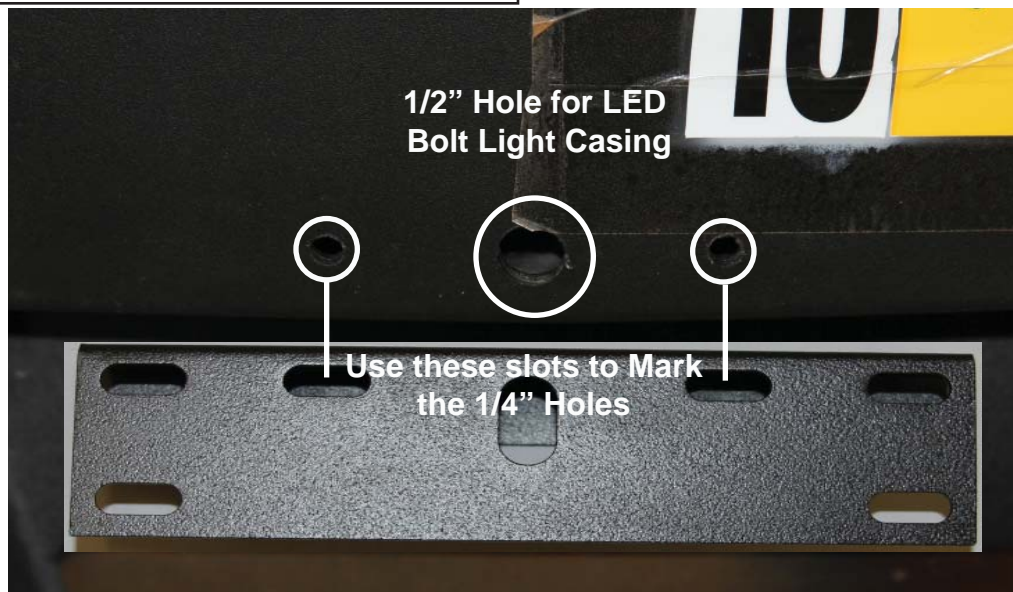
Connecting the License Plate Light

1. Disconnect the Battery

2. Locate the positive (+) wire to the vehicle's tail light and place the **T-Tap Connector** on the wire. Using pliers, close the **T-Tap Connector securely** enough for it to latch in the closed position and create a connection. (See Figure)

3. Using the Included **Red Wire**, cut a length that will extend from the red wire coming from the **LED Bolt Light** to the newly installed **T-Tap Connector**. On one end of the wire connect the **Male Spade Connector**. On the other end use a **Butt Connector 18-22 Gauge** to connect it to the red wire coming from the **LED Bolt Light.**

4. Connect the **Male Spade Connector** to the **T-Tap Connector**.

5. Using the Included **Black Wire**, cut a length that will extend from the black wire coming from the **LED Bolt Light** to the nearest spot on the Metal Frame of the Vehicle to create a GROUND. On one end of the **Black Wire** connect the **#10 Ring Terminal**. On the other end connect it to the black wire coming from the **LED Bolt Light** using a **Butt Connector 18-22 Gauge**.

6. Pre-Drill a hole on the Metal Frame at the chosen location, then attach the **#10 Ring Terminal** to the metal frame using the **#10 Self Drilling Screw.**

7. Reconnect the Battery positive(+) side first then the ground (-).

T-TAP CONNECTOR ATTACHED TO HOT LEAD OF TAIL LIGHT

MALE SPADE CONNECTOR ATTACHED TO T-TAP CONNECTOR
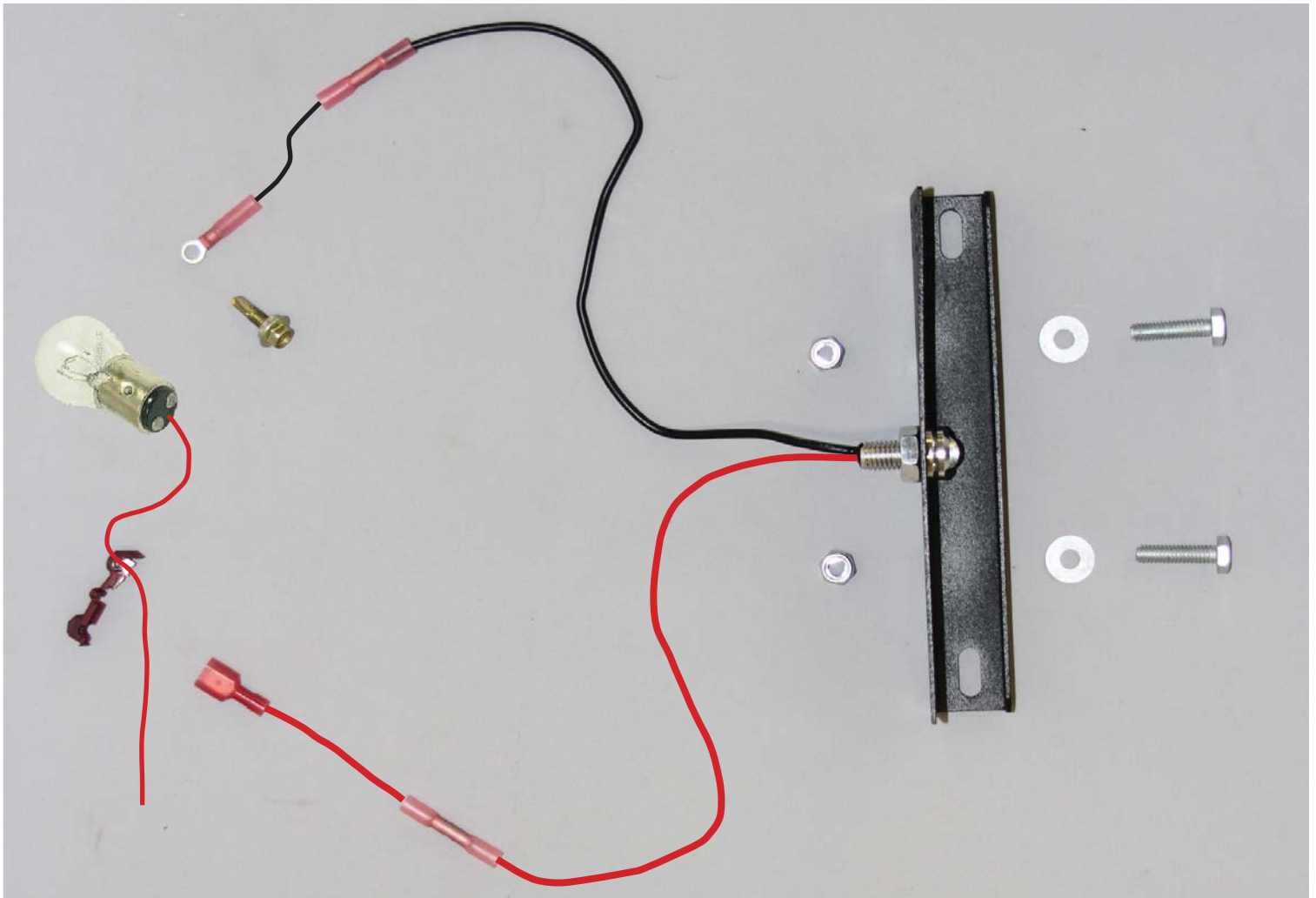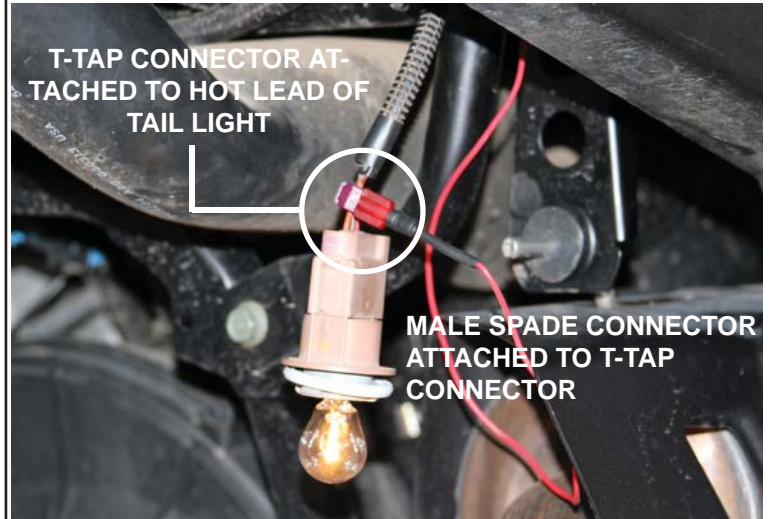
Horn Installation Instructions

Installing the horn

1. Find a location to mount the horn on the frame or metal tubing. Do NOT mount to plastic. It is recommended that you mount the opening of the horn facing down so any water or debris can drain from the horn.

2. Make a 6" inch ground wire using the included **Black Wire**. Attach one of the **Female Spade Connectors** on one end, and a **#10 Ring Terminal** to the other end.

3. Using the **Horn Mounting Kit**, attach the horn to the frame or metal tubing of your UTV. The Horn will attach to the metal arm using a 1/4 nut. The other end of the arm will be attached to the frame using a **#10 Self Drilling Screw**. Note: Pre-drilling a hole for the **#10 Self Drilling Screw** is recommended.

NOTE: Ground the **Horn** by Attach the 6" ground wire to a male spade on the horn, put the round terminal on the same **#10 Self Drilling Screw** that is used to attach the **Horn** to Metal.

4. Determine the best location for the **Horn Button**. Drill a 1/2" mounting hole for the **Horn Button**.
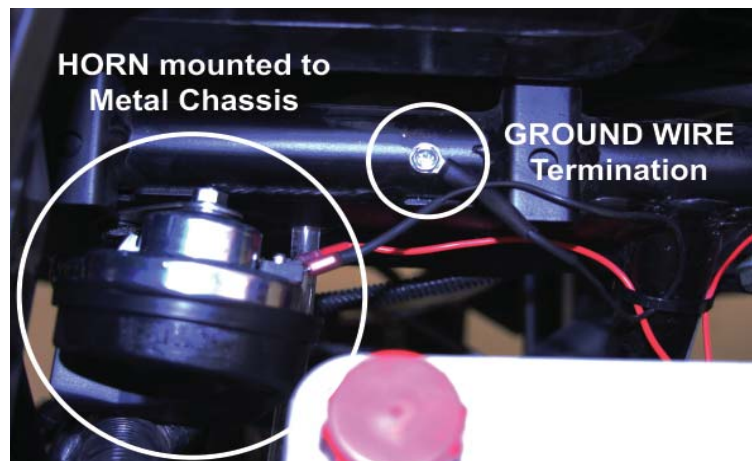
5. Using the Included **Red Wire**, cut a length that will extend from the **Horn** to the **Horn Button**. Attach a **Female Spade Connector** to one end of the **Red Wire** and then connect it to the other Male Spade on the **Horn**. Next, connect the same **Red Wire** to one of the Red Wire's coming from the **Horn Button** using a **Butt Connector 18-22 Gauge.**
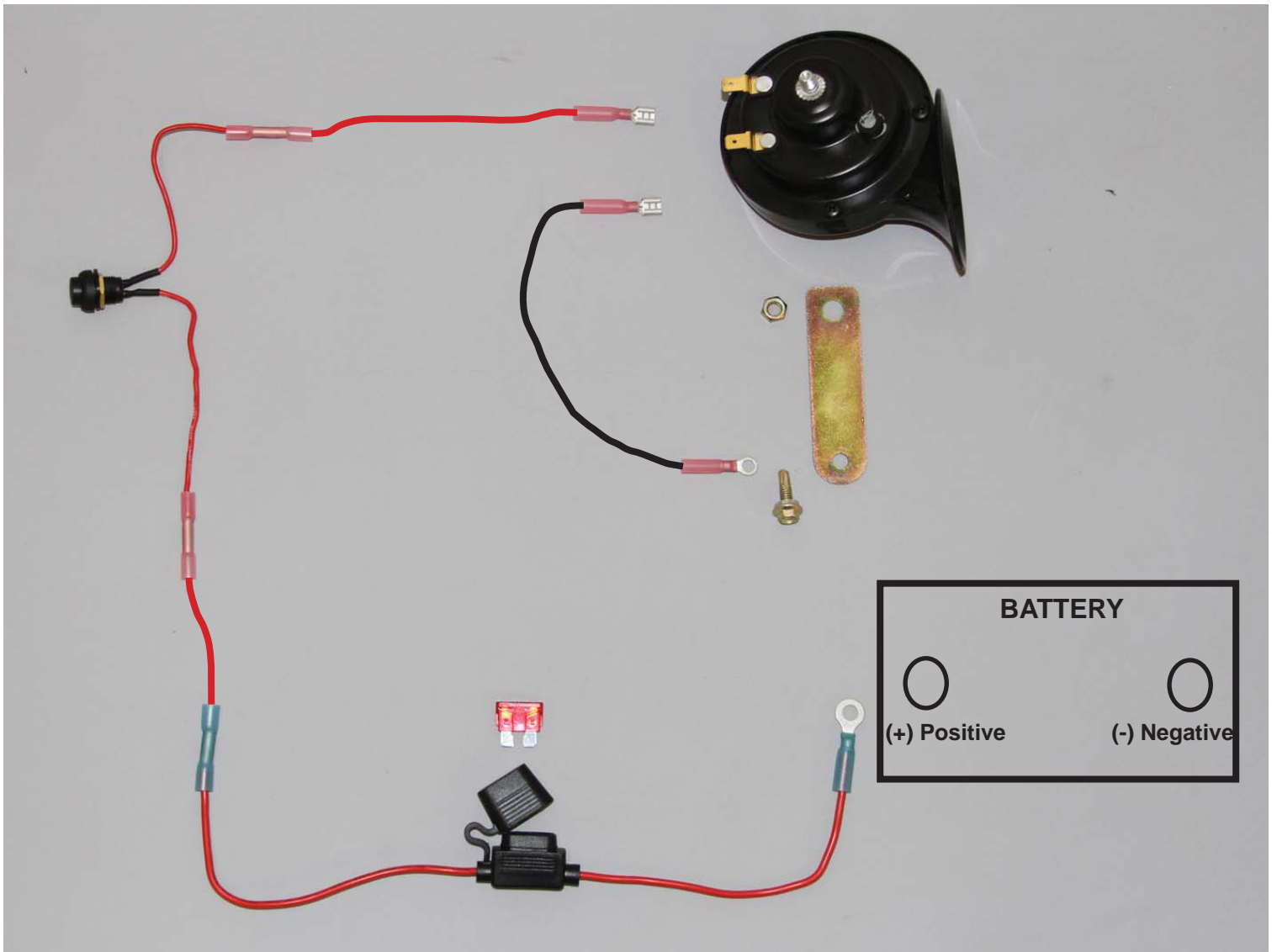
6. Using the **Red Wire**, cut a length that will extend from the **Horn Button** to the **Battery**. Connect the **Red Wire** to the second red wire coming from the **Horn Button** using a **Butt Connector 18-22 Gauge**. Next cut the red wire loop on the **Fuseable Link** leaving enough wire on either side to make a connection. Connect the **Red Wire** coming from the **Horn Button** to one of the red wires on the **Fuseable Link** using a **Butt Connector 14-16 Gauge**. On the other red wire coming from the **Fuseable Link** connect the **1/4" Ring Terminal**.

7. With the battery disconnected, connect the **1/4" Ring Terminal** to the Positive (+) Terminal on the battery.

8. Insert the 10 AMP Fuse into the Fuseable Link.

9. Reconnect the battery by first connecting the Positive (+) side and then the Ground (-).

Parts:

1 - Horn

1 - 1/4" Ring Terminal

1 - #10 Ring Terminal

1 - Horn Mounting Kit

1 - Butt Connector 14-16 Gauge

1 - Horn Button

2 - Butt Connector 18-22 Gauge

2 - Female Spade Connector

1 - Fuseable Link & 10 Amp Fuse

HORN mounted to Metal Chassis

GROUND WIRE Termination

1/2" Mounting Hole

FUSEABLE LINKS for TURN SIGNAL circuit and HORN circuit

BATTERY

(+) Positive   (-) Negative

WIRING DIAGRAM FOR HORN INSTALLATION

FRONT OF UTV

GROUND

HORN

HORN BUTTON

FUSEABLE LINK

BATTERY