






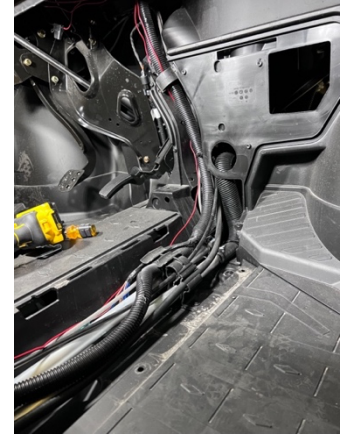
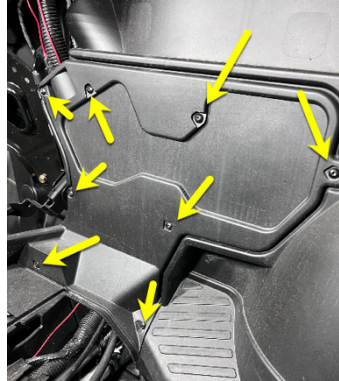
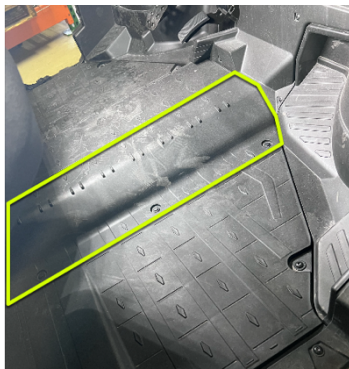


**Can-Am Defender integrated Street Legal Kit  
(Replacement Signature lights or 3x2)**

Parts Contents		
<p>Long cable with Set of 3 Wires</p> 	<p>Main Control Module with Power wire</p> 	<p>Snail Horn and Harness with Switch</p> 
<p>Zip Ties for cable management</p> 	<p>Column-Mounted Turn Signal Switch</p> 	<p><b>Either</b> the 6-LEDs or the Replacement Signature Lights.</p> 
<p>Wiring for instrument cluster integration (2 versions)</p> 	<p>License Plate Kit and wiring Harness</p> 	<p>In-Line adapter plug for Rear Taillights</p> 

1. Prep the front of the Machine

Remove the Passengers side center floor panel and the kick plate located right above the center floor panel. If you have the rear bench seat, remove the back seat passengers floor panel as well. (Limited Models will look different.)



**Remove the Drivers side Hood Panel.** There are 2 T30 Bolts on the bottom side underneath, and 2 plastic push pins under the hood.

Open the hood by pulling straight out and then up to expose the 2 push pins. This will expose a small hole by the frame that will allow you to run cables from under the front hood to under the dash inside the cab.



2. Attach the column-mounted turn signal lever

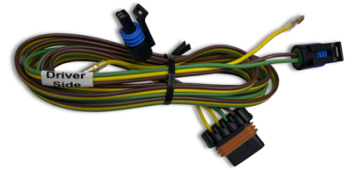
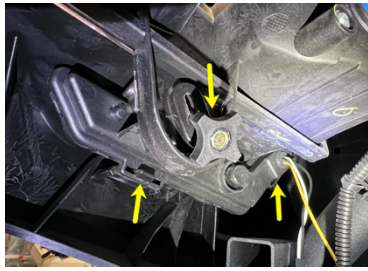
**Mount the Turn Signal Switch** on the Steering Column housing using the supplied Well Nuts (expanding nuts). Place the bracket in place and mark the location of the two holes to drill. Drill each hole with a 3/8" bit. Slide the Well Nuts in the holes, and then place the bracket on top and tighten the bracket down with the provided fasteners.

- **ALTERNATE:** If your Defender has full doors, you may want to mount the turn signal switch with the included Silver bracket. This will give you more space in between the turn signal switch and the doors. It will involve cutting a hole in the side of the plastic surrounding the steering wheel and attaching the switch directly to the steering column using the included silver bracket included in your kit. Use the existing bolts in the turn signal switch to replace the black metal bracket with the silver bracket.





<p>3. Mount the Main Control Module</p>	<p><b>Mount the Main Control Module</b> under the dash next to the steering column on the outside wall of the kickplate, using the supplied fasteners. If there is not enough room because of other installed accessories, find another suitable place to mount it.</p>	
<p>4. Install the Horn and switch</p>	<p><b>Install the Horn.</b> With the driver's side hood exposed, there is a hole where you can install the horn like the picture below. Use the provided bolt and nut to tighten the horn into place. If you have other accessories that don't allow room, find another suitable place to mount the horn. Run the wiring harness back up through the hole you exposed in step 1. It's typically easier to start under the dash and run the small spade connectors through the little hole (exposed in step 1) leaving the Rocket Switch socket and plug inside the machine to connect to its mating connector on the Main Control Module. Place the switch and its socket into place and snap the switch into an empty switch blank.</p>	
<p>→</p>	<p><b>If installing the <u>Signature lights</u> Proceed to <u>step 5</u>, if installing the <u>3x2 Kit (6 amber LEDs)</u> proceed to <u>Step 6</u>.</b></p>	
<p>5. Installing the Front Turn Signals (<b>Signature Lights</b>)</p>	<p>Remove your existing accent lights, or the plastic placeholder for them. Unplug the power connector from the original light (if you have an existing one) and remove the bolt in the top back side. Unscrew the headlight stabilizing screw as well. With one hand, press the plastic clip on the side of the light and push the light inside from the outside with the other hand until the light comes out. Install both passenger and drivers' sides.</p> <p>Now, with the front signature lights installed, connect the Front Wiring Harness to the main control module and then push the connector ends through the little hole you exposed in Step 4. Run the wiring harness to each of the front signature lights making sure to use the zip ties to keep the wire from any moving parts. Route the blue plug with the wire that is labeled "Drivers Side" to the driver's side. Attach the Blue 2 pin connector to the corresponding connector on the Signature Lights. <b>Skip step 6.</b></p>	



6. Installing the Front Turn Signals (6 Amber LEDs)

If your kit came with the 6 amber LEDs, then connect the harness and run to the front of the machine. Poke them one-by-one through the little hole you exposed in step 1 or route a different method that you prefer.



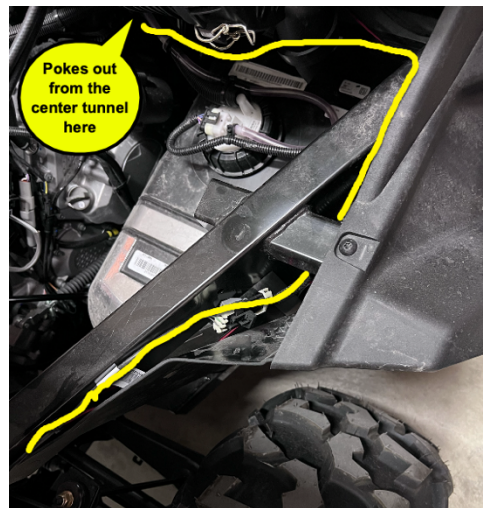
- Drill three 3/4" holes under the front head lights (or wherever you'd like!) Install the 3 LEDs on each side by pulling the rubber grommet off each one, slipping the LEDs then the grommets through the hole. Route the blue plug with the wire that is labeled "Drivers Side" to the driver's side. Place the rubber grommet in the hole first, and then slide the LED inside the grommet.

8. Run the long cable to the rear of the machine.

Remove both rear taillights using a 10mm Socket. Set the taillights aside for now.



Run the large cable (with 3 inner wires) from the main control module, under your dash, down the center kickplate following your vehicles main wiring harness. Open the factory wire clamps (first pic below) and route the wire inside them following the main wiring harness of the vehicle. The cable you are running will leave the cab area at the back of the center floor plate and come out under the bed. Continue following the factory harness (yellow line in pic below) until you arrive at the passenger's taillight opening where you removed the taillights in the last step.

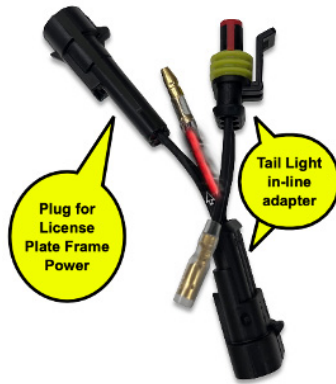




9. Attach the rear taillight harnesses

Starting on the Drivers' side, route the Drivers Side Plug harness up through the bottom of the bed and out through the opening of the taillight. Plug the Driver's Side Plug harness in-line with the existing factory plug. The long leftover wire will run down and back to the Passengers side Taillight. Plug the Passengers Side Harness in-line with the factory plug as well on the passenger's side taillight.

Passengers Side plug



Drivers Side Plug



Connect the large cable (with the 3 wires inside) you ran from the front of the machine, and both rear in-line taillight plugs together. See image to the right on how to correctly connect the 3 bullet connectors to the correct locations from the wiring harness you ran in step 8.

**Black** to Drivers side, **White** to Passengers side, and **Red** to the other passenger's side bullet connector. On the passenger's side, the bullet connectors have opposing connections so you can mess it up.

(If when testing at the end of your installation, the rear turn signals are blinking on the wrong sides, simply swap the 2 male bullet connectors on the black and white wires coming from the front of the machine. )



\*\*\*\*\*  
**READ THIS  
 BEFORE  
 CONTINUING!!**  
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If you have either of these types of Instrument Clusters, go to Step 11!

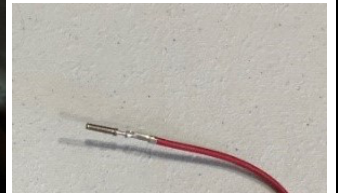
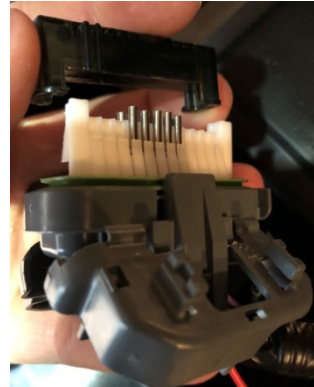


If you have this instrument Cluster, go to step 10!



10. Connect the Instrument Cluster wire for **Analog Displays**

- DISCONNECT THE POWER CABLE FROM THE BATTERY FIRST.**
- Remove the back panel from the instrument cluster, and then unplug the connector plug from the back of the instrument cluster.
  - The back of the gray plug connector opens to expose the pins. Remove the blue pin plug from position #8.
  - Remove the smoked pin cover on the front side of the plug connector. This is done by depressing the tabs on both sides of the connector. **THIS MUST BE DONE FOR THE ENTERING PIN TO SET CORRECTLY**
  - Push the instrument pin into position #8 until you see it is lined up with all the other pins on the front of the connector.
  - Replace the clear pin cover. Close the rear cover. Re-insert it into the dash.
  - Connect the wiring harness back to the control box onto the only plug that matches.
  - Skip Step 11.



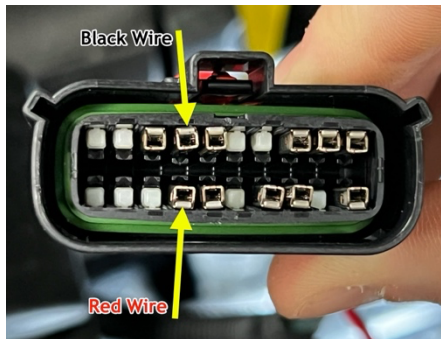
11. Connect Cluster wire for **Digital Displays**

- DISCONNECT THE POWER CABLE FROM THE BATTERY FIRST.** Remove the back panel from the instrument cluster, and then unplug the connector plug from the back of the instrument cluster by pulling on the red tab out, then pressing on the now exposed black lever (that was under the red tab)
- Remove the WHITE colored front cover by depressing the locking tabs on the ends of the cover.
    - You may need to insert a small flat blade in the side openings and lightly pull to free the cover from the housing.
  - Remove and discard the plastic place holder plugs in position and insert the included terminals into the plug
    - Push the White plastic place holders out from the back. Use a small poker tool to push them from the back out the front.





- The pin positions are not numbered. When holding the connector as pictured, with the RED lock tab up, They are both the 4<sup>th</sup> from the left side on both rows.
- Route the included 2-pin (black and red wires) wiring harness from the WD control box, through the back cover of the plug
- Install the Black wire in the top row
- Install the Red wire in the bottom row.
- Double check that all the pins are seated and evenly aligned before reinstalling the front cover.
- Reinstall the front cover and close the back cover
- Reinstall the plastic cable covering over the wires and reconnect the plug back into the digital display.
- Connect the instrument cluster wiring harness to the WD control box.

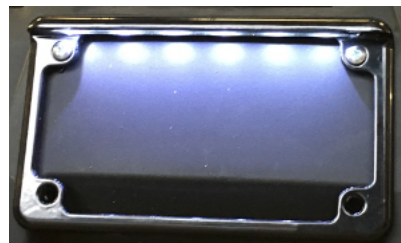


10. Attaching License Plate Frame

Mount the License Plate bracket and frame and run its wire back up to the mating plug at the passenger's side taillight (middle picture below). Mount the license plate bracket in a convenient location under the bed using the included self-tapping screws or mount it to the back of your tail gate (requires removing the panels and fishing the wire though). The leftover 2-pin plug that you ran in-line with your passengers' side taillight is used to power the License Plate frame once you have it mounted to the bracket. **If the License Plate frame does not light up after you have power turned on, simply swap the red and black bullet connectors that are 6" inches from the plate frame.**

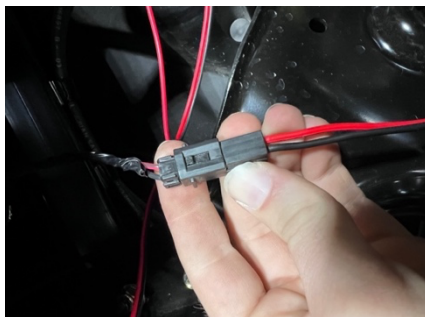
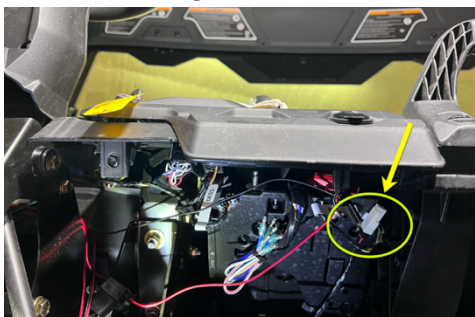






Passengers Side Taillight Plug



9. Connect to Power Source

Attach the power cable included in the kit to the accessory plug under the dash. The Accessory plug is located near the center, under the dash. It is white. The mating cable in the kit is black. The Power cable attaches to the right side of the Main Control Module with the bullet connectors.



<p>11. Attaching License Plate</p>	<p>Installing the plate functions best if you use a pair of regular scissors to cut a small ¼” tab out the top of the license plate as shown in the pictures to the right. Leave enough space for the wires to come through. Bend the tab over so it lays flat (or file it off).</p>    
<p>Common Troubleshooting Tips.</p>	<ol style="list-style-type: none"> <li>1. There is ONLY one place that each wiring harness will connect to on the Main Control Box. Each wiring harness will end up at the control box, as none of them connect to each other. This is helpful if you are confused about which wiring harness to use.</li> <li>2. If your license plate does not light up, when the switch is turned on, swap the red and black wires that are 6 inches from the plate. Black on Red, and Red on Black.</li> <li>3. Both Blinkers on the dash will blink at the same time (like hazards). This is normal and how Can-am designed this instrument cluster. It is simply an indicator that either of the turn signals are activated.</li> <li>4. When you test the blinkers, if the rear taillight blinkers blink on the wrong sides, simply swap the yellow and green bullet connectors coming out of the driver’s side in-line plug. This will reverse the left and right turn signals.</li> <li>5. If the front Blinkers blink on the wrong size, swap the wires leading up to them.</li> <li>6. Horn doesn’t sound. Check the ground wire. You may not have mounted on a good ground bolt.</li> <li>7. If nothing is turning on, check your fuses.</li> </ol> <p style="text-align: center;"><b>For additional support email <a href="mailto:support@wdelectronics.com">support@wdelectronics.com</a></b></p>