











































# Turn Signal/Horn Kit 5101

<p><b>Before you begin</b></p>	<p><b>STOP! THIS KIT IS COMPATIBLE WITH</b></p> <ul style="list-style-type: none"> <li>• CFMoto UForce 2015-2016,</li> <li>• CFMoto ZForce 800, 2021-2022, 2015-2016</li> </ul> <p><b>IF YOUR VEHICLE IS NOT ONE OF THESE MODELS, DO NOT PROCEED.</b>            Contact Ryco Motorsports or your Ryco Moto dealer for the correct kit.</p>											
<p><b>Digital Copy</b></p>	 <p>To access a digital copy of these instructions scan this QR code, or email RycoMoto@gmail.com and specify the kit number.</p> <p><b>HINT:</b> The text and photos can then be enlarged digitally if needed.</p>											
<p><b>Where do I start?</b></p>	<p><b>Please read and follow the instructions.</b></p> <p>If you are a guy and, like most of us, feel you can install this without taking the time to read the instructions, then you should ask your significant other to read them to you. I put a lot of effort into creating the instructions, and I feel bad when no one reads them. Answers to all your questions should be covered in the installation instructions. We've included a lot of photos for those of you who are visual and don't enjoy words.</p>											
<p><b>What tools do I need?</b></p>	<ul style="list-style-type: none"> <li>• 1/2" and 3/4" diameter drills    NOTE: A stepped bit works well</li> <li>• 10 mm or 5/16" socket/nut driver</li> <li>• Phillips screwdriver            • drill motor</li> <li>• 10 mm wrench                    • pliers</li> <li>• center punch</li> </ul>   											
<p><b>What's in the box?</b></p>	<p>Let's become familiar with the items you will be installing on your vehicle, in order of use.</p> <table border="1" data-bbox="310 955 1528 1858"> <tr> <td data-bbox="310 955 716 1270"> <p><b>TURN SIGNAL/HORN SWITCH</b></p>  <p>The connectors interface with the various kit components.</p> </td> <td data-bbox="716 955 1122 1270"> <p><b>FLASHER RELAY</b></p>  <p>- 3 pin connector - No marking tape</p> </td> <td data-bbox="1122 955 1528 1270"> <p><b>RYCO POWER, GROUND &amp; HORN HARNESS</b></p>  <p>- 4 pin connector - GREEN marking tape</p> </td> </tr> <tr> <td data-bbox="310 1270 716 1554"> <p><b>BRAKE STROBE INTERFACE</b></p>  <p>- 2 pin connector - No marking tape</p> </td> <td data-bbox="716 1270 1122 1554"> <p><b>CABLE TIE</b></p>  </td> <td data-bbox="1122 1270 1528 1554"> <p><b>HORN WITH SPACER AND 6X25 FASTENER AND NUT</b></p>  </td> </tr> <tr> <td data-bbox="310 1554 716 1858"> <p><b>HORN ADAPTER HARNESS</b></p>  </td> <td data-bbox="716 1554 1122 1858"> <p><b>PARALLEL TAP</b></p>  <p>NOTE: This photo shows one PARALLEL TAP open, and another folded closed.</p> </td> <td data-bbox="1122 1554 1528 1858"> <p><b>INDICATOR HARNESS</b></p>  <p>Dash indicator harness</p> <p>- 3 pin connector - BLUE marking tape</p> </td> </tr> </table>			<p><b>TURN SIGNAL/HORN SWITCH</b></p>  <p>The connectors interface with the various kit components.</p>	<p><b>FLASHER RELAY</b></p>  <p>- 3 pin connector - No marking tape</p>	<p><b>RYCO POWER, GROUND &amp; HORN HARNESS</b></p>  <p>- 4 pin connector - GREEN marking tape</p>	<p><b>BRAKE STROBE INTERFACE</b></p>  <p>- 2 pin connector - No marking tape</p>	<p><b>CABLE TIE</b></p> 	<p><b>HORN WITH SPACER AND 6X25 FASTENER AND NUT</b></p> 	<p><b>HORN ADAPTER HARNESS</b></p> 	<p><b>PARALLEL TAP</b></p>  <p>NOTE: This photo shows one PARALLEL TAP open, and another folded closed.</p>	<p><b>INDICATOR HARNESS</b></p>  <p>Dash indicator harness</p> <p>- 3 pin connector - BLUE marking tape</p>
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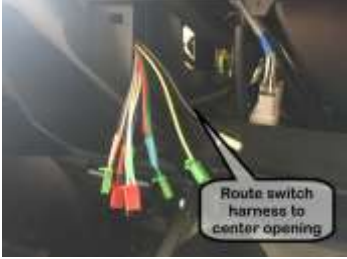

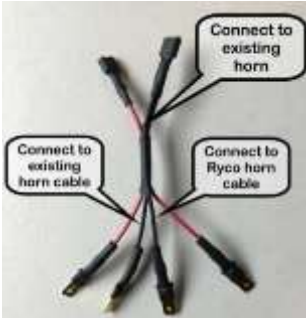



# Turn Signal/Horn Kit 5101

	<p><b>FRONT TURN SIGNAL HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 4 pin connector</li> <li>- RED marking tape</li> </ul>	<p><b>REAR TURN SIGNAL HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- RED marking tape</li> </ul>	<p><b>PLATE HOLDER</b></p> 
	<p><b>EXPANDABLE NUT AND FLANGE BOLT (RYCO-B)</b></p> 	<p><b>FLANGE BOLT and LOCK NUT (RYCO-C)</b></p> 	
<p><b>Installation Steps</b></p>	<p><b>NOTE:</b> Where possible run new cables alongside the existing wires, and use existing cable ties/anchors where practical.</p> <p><b>IMPORTANT:</b> Ensure that the wiring and installed hardware do not contact moving components or hot surfaces.</p> <ul style="list-style-type: none"> <li>• Turn the ignition key to start the engine, step on the brake pedal, and verify that the brake lights function correctly.</li> <li>• If yes, continue to Step 1.</li> <li>• If no, adjust the vehicle brake switch until the brake lights function, and then continue to Step 1.</li> </ul>		
<p><b>1. Mount the TURN SIGNAL/HORN SWITCH</b></p>	<p><b>NOTE:</b> The TURN SIGNAL/HORN SWITCH should NOT have any of the cables or components installed on the harness until after the switch is installed, and the switch harness is routed behind the dash.</p> <ul style="list-style-type: none"> <li>• Remove the front access cover and the storage pan to provide access.</li> <li>• Using the tilt feature lower the steering wheel to the lowest position.</li> <li>• Push the shoulder bolt back until the threaded end is flush with the steering wheel column bracket.</li> </ul>   <p><b>NOTE:</b> Per preference, the shoulder bolt can be removed and the tilt wheel mechanism rotated 180° so the TURN SIGNAL/HORN SWITCH can be activated with the left hand.</p>   <ul style="list-style-type: none"> <li>• Slip the U-shaped switch bracket on the <b>TURN SIGNAL/HORN SWITCH</b> over the steering column.</li> </ul> <p><b>NOTE:</b> You may need to put pressure on the switch bracket to force it over the steering column, and again to align the switch bracket hole with the shoulder bolt.</p>		



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	<ul style="list-style-type: none"> <li>• Reinstall the nuts on the factory shoulder bolt.</li> <li>• Torque the nut to 10 in-lb.</li> <li>• Route the wires below the steering column and above the tilt mechanism.</li> <li>• Insert the wire harness connectors through the opening one at a time, starting with the (2) 4 pin connectors, then the (3) 3 pin connectors, and then the 2 pin connector.</li> <li>• Route the wires towards the center of the vehicle.</li> </ul> <p><b>RECOMMENDATION:</b> The TURN SIGNAL/HORN SWITCH is water-resistant. When washing the vehicle, take care not to directly spray the switch. Ryco Moto recommends covering the switch with a plastic bag while washing.</p>	<p>Note: This photo is not on a CFMoto but is for illustration.</p>	 <p>Route switch harness to center opening</p>
<p><b>2. Connect the Components to the TURN SIGNAL/HORN SWITCH Harness</b></p>	<p><b>IMPORTANT:</b> When connecting the components match the color of the <u>marking tape</u> by the connectors (e.g., <b>RED</b> marking tape to <b>RED</b> marking tape, <b>GREEN</b> to <b>GREEN</b>, <b>BLUE</b> to <b>BLUE</b>), rather than match the color of the connectors or the wires.</p> <p>Connect the following to the <b>TURN SIGNAL/HORN SWITCH</b> harness:</p> <ul style="list-style-type: none"> <li>• <b>FLASHER RELAY</b> (3 pin connector with NO marking tape),</li> <li>• <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> (4 pin <b>GREEN</b> marking), and</li> <li>• <b>BRAKE STROBE INTERFACE</b> (2 pin NO marking).</li> </ul> <p><b>NOTE:</b> Do NOT connect the front or rear turn signal harness to the TURN SIGNAL/HORN SWITCH at this time.</p> <ul style="list-style-type: none"> <li>• Secure the <b>TURN SIGNAL/HORN SWITCH</b> harness to a cross member using a <b>CABLE TIE</b>.</li> </ul> <p><b>NOTE:</b> The FLASHER RELAY can be bundled and secured with a CABLE TIE to the TURN SIGNAL/HORN SWITCH harness.</p>		
<p><b>3. Install the HORN</b></p>	<p><b>EXPLANATION:</b> Some UForce models do not include a stock horn. A HORN and mounting hardware is included in this kit to be used as needed.</p> <ul style="list-style-type: none"> <li>•</li> <li>• Route the <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> from the <b>TURN SIGNAL/HORN SWITCH</b> harness to the existing vehicle horn on the driver's side of the vehicle, near the radiator.</li> <li>• At the driver's side horn, unplug the vehicle horn wires from the horn, and plug the vehicle harness into the male flat spade connectors on the <b>BLACK</b> and <b>RED</b> wires on the <b>HORN ADAPTER HARNESS</b>.</li> <li>• Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> to the other set of male flat spade connectors on the <b>HORN ADAPTER HARNESS</b>.</li> <li>• Connect the female flat spade connectors to the vehicle horn.</li> </ul> <p><b>NOTE:</b> Either connector can be installed on either HORN terminal.</p>	 <p>Connect to existing horn</p> <p>Connect to existing horn cable</p> <p>Connect to Ryco horn cable</p>	



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## 4. Install the BRAKE STROBE INTERFACE

**EXPLANATION:** The Ryco Moto kit utilizes the vehicle brake lights for the turn signal function. The brake light circuit is disrupted with the installation of the Ryco Moto kit and the BRAKE INTERFACE must be connected in order for the brake lights to function on the vehicle. The brake strobe feature can be disabled per preference as described in "Brake Strobe Feature," but **the BRAKE INTERFACE must be installed** regardless.

**Brake Strobe Feature:** Whenever the service brake is applied, the brake lights strobe six times in the first second, and then remain on at full intensity until the brake pedal is released.

If you wish to disable the strobe feature, remove the brake strobe module (the black rectangular box) from the BRAKE STROBE INTERFACE before installation:

- o Cut the two RED wires at each end of the black rectangular box.
- o Either cut the BLACK ground wire or remove the BLACK ground wire from the 2 pin connector.
- o Splice the two RED wires together.



**EXPLANATION:** CFMoto varied the color of the brake switch wire by model year.

- Locate the vehicle hydraulic brake switch on the front driver's side.
- Is the vehicle a model year 2020 or newer?
  - o If yes, then expose the **BLACK** wire on the vehicle side of the brake switch connector as shown.
  - o If no, then expose the **GREEN/YELLOW** wire on the vehicle side of the brake switch connector as shown.



- Disconnect the 2 pin connector on the vehicle brake switch wire harness.

**EXPLANATION:** This allows easier access to install the PARALLEL TAP connector on the vehicle hydraulic brake switch wire.

**How to Install a PARALLEL TAP:** The wire colors may not match your application but are for illustration.

**NOTE:** Check the orientation of the PARALLEL TAP connectors to ensure access for the male connector, prior to seating the PARALLEL TAP connector with pliers.



- Install a **PARALLEL TAP** on the vehicle hydraulic brake switch wire on the vehicle side of the 2 pin connector.
- Reconnect the 2 pin connector on the vehicle brake switch wire harness.
- Route the **BRAKE STROBE INTERFACE** wire from the **TURN SIGNAL/HORN SWITCH** harness.
- Connect the **BRAKE STROBE INTERFACE** wire to the **PARALLEL TAP** installed on the hydraulic brake switch vehicle hydraulic brake switch wire.





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## 5. Install the INDICATOR HARNESS



- Locate one of two identical 6 pin connectors on the vehicle harness in the center of the vehicle behind the instrument cluster.
- Install the **INDICATOR HARNESS** on one of the two 6 pin connectors.

**NOTE:** Either 6 pin connector can be used.

- Connect the **INDICATOR HARNESS** to the 3 pin connector on the **TURN SIGNAL/HORN SWITCH** harness, matching the **BLUE** marking.

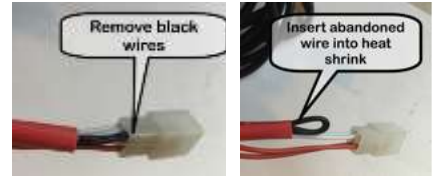
## 6. Install the FRONT TURN SIGNAL HARNESS

**Front Turn Signal Running Lights Feature:** The front turn signal lights are running lights, and illuminate at 60% intensity when the vehicle ignition is on, and then flash at full intensity when the turn signals are activated.

If you wish to disable the running light feature,

- On the **FRONT TURN SIGNAL HARNESS** remove the **BLACK** wire in the 4 position connector.

**NOTE:** Use a very fine flat blade screwdriver or similar tool to depress the metal tab on the pin joining the two black wires.



- Push the pin out of the 4 position connector, and tuck the pin into the red heat shrink or tape it out of the way.

- Connect the **FRONT TURN SIGNAL HARNESS** to the 4 pin connector on the **TURN SIGNAL/HORN SWITCH** harness with the **RED** marking tape.

**NOTE:** The tags on the **FRONT TURN SIGNAL HARNESS** are marked "L" for the driver's side, and "R" for the passenger side.

- Route the **FRONT TURN SIGNAL HARNESS** lights to the front corners of the vehicle.



- Determine the locations of the front lights as desired, either above or below the headlights.

**HINT:** 1 1/4" - 1 1/2" spacing between the lights works well.

**CAUTION:** Prior to drilling verify you are NOT going to interfere with a stiffener or the headlight adjusting screw.

**NOTE:** A stepped drill works best to drill the holes in the plastic body work.



# Turn Signal/Horn Kit 5101

	<ul style="list-style-type: none"><li>• Mark the locations using a center punch.</li><li>• Drill a 3/4" diameter hole for each front turn signal light.</li></ul> <p><b>HINT:</b> A little warmth and moisture helps to slip everything together.</p> <ul style="list-style-type: none"><li>• Slide the rubber flange gaskets on each light back onto its harness.</li><li>• Slip each light through the applicable drilled hole, fold each flange gasket, and then push the gasket through its respective hole.</li><li>• Install each flange gasket into its hole, with the flange of the gasket towards the front of the vehicle.</li><li>• Seat each light into its flange gasket with a gentle pulling and rocking motion.</li><li>• Rotate each light within its gasket to orient the lights in the same relative position.</li></ul>
<p><b>7. Install the REAR TURN SIGNAL HARNESS</b></p>	<p><b>EXPLANATION:</b> The REAR TURN SIGNAL HARNESS is a zip cord; the red and black wires pull apart easily. Separate the red and black wires as needed to complete the following steps.</p> <ul style="list-style-type: none"><li>• Connect the <b>REAR TURN SIGNAL HARNESS</b> to the 3 pin connector on the <b>TURN SIGNAL/HORN SWITCH</b> harness, matching the <b>RED</b> marking tape.</li></ul> <p><b>NOTE:</b> Only the two outside pins of the REAR TURN SIGNAL HARNESS 3 pin connector is used. The rear turn signal circuit utilizes the existing vehicle ground.</p> <ul style="list-style-type: none"><li>• Remove the floorboard access panels and seats as necessary.</li><li>• Route the <b>REAR TURN SIGNAL HARNESS</b> cable alongside the existing wires, where practical, to the rear of the vehicle.</li><li>• Secure with <b>CABLE TIES</b>.</li></ul> <p><b>NOTE:</b> Ensure the wiring does not contact moving components or hot surfaces.</p> <ul style="list-style-type: none"><li>• Remove the rear panels to provide easy access to the vehicle rear wire harness.</li><li>• Locate the vehicle rear taillight wire harness.</li><li>• Expose the <b>GREEN/YELLOW</b> wire at the 4 pin connector where they plug into the two rear taillight assembly wire harness.</li><li>• Cut the <b>GREEN/YELLOW</b> wire on both the left and right side of the vehicle.</li><li>• Strip approximately 1/8" of insulation from each <b>GREEN/YELLOW</b> wire <b>on the wires going to the taillight</b>.</li></ul> <p><b>NOTE:</b> You MUST cut the vehicle <b>GREEN/YELLOW</b> wires, and connect to the <b>RED</b> and <b>BLACK</b> wires on the REAR TURN SIGNAL HARNESS. If you splice into the wires, rather than cut the wires, it will not function properly.</p>





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## How to Use the Solderless Connectors:

- Unscrew the solderless connector end piece, and slip it over the wire of the component to connect.
- Start to screw the end piece back in place, and push the wire of the component being connected, so it is seated in the solderless connector.
- Tighten the end pieces.



Connect the **REAR TURN SIGNAL HARNESS** and vehicle taillight wires, using the red solderless connectors:

- Attach the **REAR TURN SIGNAL HARNESS** BLACK wire to the passenger side vehicle GREEN/YELLOW taillight wire, using the solderless connector.
- Attach the **REAR TURN SIGNAL HARNESS** RED wire to the driver side vehicle GREEN/YELLOW taillight wire, using the solderless connector.

**NOTE:** If you connect the REAR TURN SIGNAL HARNESS wires to the GREEN/YELLOW wires coming from the front of the vehicle, the rear turn signals and brake lights will not function.

- Abandon the other ends of the cut vehicle GREEN/YELLOW wires, and tuck into the protective sleeve and/or wrap with electrical tape.

## 8. Install the PLATE HOLDER

- Position the **PLATE HOLDER** in the desired location.
- Mark the location of the two mounting holes.
- Drill two 1/2" diameter holes in the vehicle's body plastic.
- Install the two rubber 6mm **EXPANDABLE NUTS** in the 1/2" holes, with the flange portion outboard.



- Using the two provided **FLANGE BOLTS**, secure the **PLATE HOLDER** and license plate to the vehicle's body.
- Finish securing the license plate to the **PLATE HOLDER** using the two **FLANGE BOLTS** and **LOCK NUTS**.

## 9. Connect to the Main Power

**EXPLANATION:** The RED wire on the outlet is 12V DC, and the BROWN wire is ground. The auxiliary power outlet is active when the ignition key is in the "ON" position.

- Ensure that the ignition key is in the "OFF" position.
- Locate the RED and BROWN wires leading to the back side of the auxiliary power outlet (i.e., the cigarette lighter outlet, for you ol' timers).
- Disconnect the two pin connector on the vehicle power outlet wire harness.

**EXPLANATION:** This allows easier access to install the PARALLEL TAP connectors.

- At the 2 pin connector expose the RED and BROWN wires.

**NOTE:** Check the orientation of the PARALLEL TAP connectors to ensure access for the male connectors on the power and ground wires, when the wires are reconnected to the auxiliary power outlet terminals, prior to seating the terminal with pliers.

- Install a **PARALLEL TAP** connector on the RED wire and on the BROWN wire, referring to "How to Install a PARALLEL TAP" in Step 4 as needed.



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	<p><b>IMPORTANT:</b> The LED lights and FLASHER RELAY are polarity sensitive. The RYCO POWER,GROUND &amp; HORN HARNESS fused wire MUST be connected to the 12 volt DC (positive side), and the BLACK ground wire must be connected to the vehicle ground wire. If this is not done correctly, the horn will work, but the turn signals will not function.</p> <p><b>WARNING:</b> Damage to the FLASHER RELAY may occur if the wires are installed backwards.</p> <ul style="list-style-type: none"> <li>Connect the <b>RYCO POWER,GROUND &amp; HORN HARNESS</b> to the <b>PARALLEL TAP</b> connectors on the auxiliary power outlet wires:</li> </ul> <table border="1" data-bbox="326 449 1511 747"> <thead> <tr> <th data-bbox="326 449 716 485">If installing on model year...</th> <th data-bbox="716 449 1511 485">Then...</th> </tr> </thead> <tbody> <tr> <td data-bbox="326 485 716 615">2020 or newer,</td> <td data-bbox="716 485 1511 615"> <ul style="list-style-type: none"> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS RED</b> wire to the vehicle <b>GREEN/WHITE</b> wire.</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> wire to the vehicle <b>GREEN</b> wire.</li> </ul> </td> </tr> <tr> <td data-bbox="326 615 716 747">2019 or older,</td> <td data-bbox="716 615 1511 747"> <ul style="list-style-type: none"> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS RED</b> wire to the vehicle <b>RED</b> wire.</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> wire to the vehicle <b>BROWN</b> wire.</li> </ul> </td> </tr> </tbody> </table>	If installing on model year...	Then...	2020 or newer,	<ul style="list-style-type: none"> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS RED</b> wire to the vehicle <b>GREEN/WHITE</b> wire.</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> wire to the vehicle <b>GREEN</b> wire.</li> </ul>	2019 or older,	<ul style="list-style-type: none"> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS RED</b> wire to the vehicle <b>RED</b> wire.</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> wire to the vehicle <b>BROWN</b> wire.</li> </ul>
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<p><b>10. Test</b></p>	<ul style="list-style-type: none"> <li>Double check all the connectors.</li> <li>Turn the ignition key to the "ON" position.</li> <li>Verify that the turn signals, 4-way flasher, horn, brake, and license plate light work correctly.</li> <li><b>Refer to the Troubleshooting Guide</b> at the end of this document.</li> </ul> <table border="1" data-bbox="326 942 1511 1043"> <tr> <td data-bbox="326 942 1511 1043"> <p><b>Four-Way Flasher Feature:</b> With either the key on or the engine running, pull the red lever on the TURN SIGNAL/HORN SWITCH to activate all four turn signal lights. To deactivate the four-way flashers move the TURN SIGNAL/HORN SWITCH black lever either direction.</p> </td> </tr> </table>	<p><b>Four-Way Flasher Feature:</b> With either the key on or the engine running, pull the red lever on the TURN SIGNAL/HORN SWITCH to activate all four turn signal lights. To deactivate the four-way flashers move the TURN SIGNAL/HORN SWITCH black lever either direction.</p>					
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<p><b>11. Done</b></p>	<p><b>IMPORTANT:</b> Ensure that the wiring and installed hardware do not contact moving components or hot surfaces.</p> <ul style="list-style-type: none"> <li>Once all the cabling is in place and functionality is verified, double check the routing, and secure with <b>CABLE TIES</b>.</li> <li>Bundle any extra cable length and secure with the <b>CABLE TIES</b>.</li> <li>Reinstall any parts removed to provide access during installation.</li> </ul>						





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Troubleshooting Guide							
Does It Work Correctly?	Front Turn Signals	Dash Indicators	Horn	Brake Lights	Rear Turn Signals	License Plate Light	Resolution
Scenario 1	✓	✓	✓	✓	✓	✓	Go riding!
Scenario 2	✓	✓	✓	No	✓	✓	<b>BRAKE STROBE INTERFACE</b> not installed correctly. Refer to Step 4.
Scenario 3	✓	✓	✓	No	No	✓	The <b>REAR TURN SIGNAL HARNESS RED</b> and BLACK wires were connected to the wrong ends of the cut vehicle wires. Refer to Step 7.
Scenario 4	No	No	✓	No	No	No	Ensure that the <b>RYCO POWER, GROUND &amp; HORN HARNESS RED</b> main power and BLACK ground wires are connected correctly (i.e., the cables are not reversed).
Scenario 5	No	No	No	✓	✓	No	Ensure that the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> ground wire is connected to a good ground.
Scenario 6	No	No	✓	✓	No	✓	If the turn signal lights illuminate but do not flash, then the <b>FLASHER RELAY</b> is damaged or defective. Contact Ryco Motorsports by email or phone, provide your shipping address, and we will send you a replacement, at no charge, to correct the problem.
Scenario 7	If a set of lights does not work, check for a bent pin on the connection between the light harness and the <b>TURN SIGNAL/HORN SWITCH</b> harness.						