





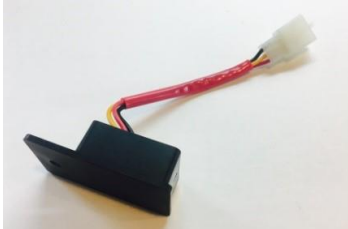








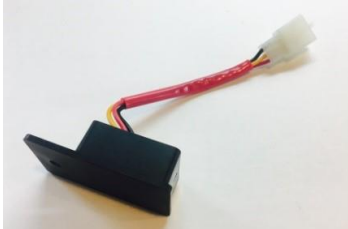








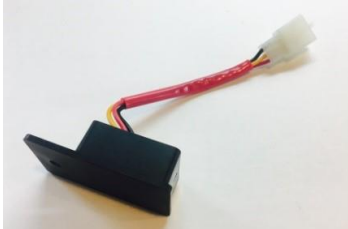



















# Turn Signal/Horn Kit 3107

<p><b>Before you begin</b></p>	<p><b>STOP! THIS KIT IS DESIGNED SPECIFICALLY FOR</b></p> <ul style="list-style-type: none"> <li><b>HONDA Talon 1000R and 1000X, all years,</b></li> </ul> <p><b>IF YOUR VEHICLE IS NOT ONE OF THESE MODELS, DO NOT PROCEED.</b> Contact Ryco Motorsports or your local dealer for the correct kit.</p>											
<p><b>Where do I start?</b></p>	<p><b>Please read and follow the instructions.</b> 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>10 mm or 5/16" socket/nut driver or flat blade screwdriver</li> <li>9/32" and 5/16" diameter drill bit</li> <li>Phillips screwdriver</li> <li>10 mm wrench</li> <li>3/4" step drill bit</li> <li>Center punch</li> <li>Wire stripper</li> <li>Wire cutter</li> <li>Drill motor</li> </ul> <div style="display: flex; justify-content: space-around;">    </div>											
<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" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="310 856 716 1188"> <p><b>TURN SIGNAL/HORN SWITCH</b></p>  <p>The connectors interface with the various kit components</p> </td> <td data-bbox="716 856 1122 1188"> <p><b>ALUMINUM SPACER</b></p>  </td> <td data-bbox="1122 856 1528 1188"> <p><b>5MM FLANGE SCREW, 5MM FLAT WASHER, 5MM FLANGE NUT</b></p>  </td> </tr> <tr> <td data-bbox="310 1188 716 1541"> <p><b>SELF-CANCELING FLASHER RELAY</b></p>  <p>- 3 pin connector - No marking tape</p> </td> <td data-bbox="716 1188 1122 1541"> <p><b>RYCO POWER, GROUND &amp; HORN HARNESS</b></p>  <p>- 4 pin connector - GREEN marking tape</p> </td> <td data-bbox="1122 1188 1528 1541"> <p><b>DASH MOUNTED INDICATOR HARNESS</b></p>  <p>- 3 pin connector - BLUE marking tape</p> </td> </tr> <tr> <td data-bbox="310 1541 716 1862"> <p><b>BRAKE STROBE INTERFACE</b></p>  <p>- 2 pin connector - No marking tape</p> </td> <td data-bbox="716 1541 1122 1862"> <p><b>CABLE TIE</b></p>  </td> <td data-bbox="1122 1541 1528 1862"> <p><b>POSI-TAP</b></p>  </td> </tr> </table>			<p><b>TURN SIGNAL/HORN SWITCH</b></p>  <p>The connectors interface with the various kit components</p>	<p><b>ALUMINUM SPACER</b></p> 	<p><b>5MM FLANGE SCREW, 5MM FLAT WASHER, 5MM FLANGE NUT</b></p> 	<p><b>SELF-CANCELING 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>DASH MOUNTED INDICATOR HARNESS</b></p>  <p>- 3 pin connector - BLUE 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>POSI-TAP</b></p> 
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# Turn Signal/Horn Kit 3107

	<p align="center"><b>HORN</b></p> 	<p align="center"><b>FRONT TURN SIGNAL HARNESS</b></p>  <p>- 4 pin connector - RED marking tape</p>	<p align="center"><b>REAR TURN SIGNAL HARNESS</b></p>  <p>- 3 pin connector - RED marking tape</p>
	<p align="center"><b>PLATE HOLDER</b></p> 	<p align="center"><b>LICENSE PLATE LIGHT and FLANGE NUT</b></p> 	<p align="center"><b>FLANGE BOLT and LOCK NUT (RYCO-C)</b></p> 
	<p align="center"><b>PARALLEL TAP</b></p> 	<p align="center"><b>PLUG &amp; PLAY ADAPTER</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>		
<p>1.</p>	<ul style="list-style-type: none"> <li>Remove the front hood / access cover.</li> <li>Remove the plastic push pins holding the top of the rubber shield.</li> <li>Remove the screws and plastic push pins securing the dash cover.</li> <li>Remove the dash cover to provide better access to the back side of the dash.</li> </ul> <div style="display: flex; justify-content: space-around;">   </div>		



# Turn Signal/Horn Kit 3107

## 2. Mount the TURN SIGNAL/HORN SWITCH

**NOTE:** The TURN SIGNAL/HORN SWITCH should NOT have any components installed on the harness until after the SWITCH is installed, and the SWITCH harness is routed behind the dash.

- Using the tilt feature, tilt the steering wheel to the upper most position.
- Remove the nut and shoulder bolt on the existing tilt wheel mechanism.
- Discard the existing shoulder bolt and nut.



**NOTE:** You may need to put some pressure on the SWITCH BRACKET to force it over the tilt mechanism bracket, and again to align the hole with the provided SPACER and fastener. You may also need to squeeze the bracket once it is in place to get the nut started.

- Slip the U-shaped switch bracket on the **TURN SIGNAL/HORN SWITCH** around the back of the tilt mechanism bracket.
- Align the holes of the switch bracket, tilt mechanism and the steering column bracket.
- Install the **ALUMINUM SPACER** and **5mm FLANGE SCREW**, **5mm FLAT WASHER** and **5mm FLANGE NUT**.
- Torque the nut to 10 in-lb.
- Route the **TURN SIGNAL/HORN SWITCH** harness below the steering column and up under the dash towards the left side of the vehicle.

## 3. Connect the Components to the TURN SIGNAL/HORN SWITCH Harness

**IMPORTANT:** Match the colors of the marking tape on the wires when you install the components (e.g., **RED** to **RED**, **GREEN** to **GREEN**, **BLUE** to **BLUE**), rather than match the color of the connectors or the wires.

Connect the following to the **TURN SIGNAL/HORN SWITCH** harness:

- **SELF-CANCELING FLASHER RELAY** (3 pin connector with NO marking tape),
- **RYCO POWER, GROUND & HORN HARNESS** (4 pin **GREEN** marking),
- **DASH MOUNTED INDICATOR HARNESS** (3 pin **BLUE** marking), and
- **BRAKE STROBE INTERFACE** (2 pin with NO marking).



**NOTE:** Do NOT connect the front or rear turn signal harness to the **TURN SIGNAL/HORN SWITCH** at this time.

- Secure the **TURN SIGNAL/HORN SWITCH** harness to a cross member using a **CABLE TIE**.

**NOTE:** The FLASHER RELAY can be bundled and secured with a **CABLE TIE** to the **TURN SIGNAL/HORN SWITCH** harness.

**Self-Canceling Flasher Relay Feature:** The SELF-CANCELING FLASHER RELAY has a timing circuit that will cancel the turn signals after a few minutes. The timer is reset whenever the turn signal switch is returned to the center/off position.





# Turn Signal/Horn Kit 3107

## 4. Install the BRAKE STROBE INTERFACE

**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:

- On the BRAKE STROBE INTERFACE cut the BLACK ground wire, or remove the BLACK ground wire from the 2 pin connector.
- Cut the two RED wires going into the BLACK cylindrical component.
- Splice the two RED wires together.



- Locate the vehicle brake switch.
- Push the cover back on the cable assembly on the vehicle side of the two pin brake switch connector to expose the **YELLOW/GREEN** wire.



**How to Use the POSI-TAP Connector:**

- Unscrew the GRAY end piece, and slip the GRAY cap over the wire.
- Screw the main body of the **POSI-TAP** and the GRAY cap together.
- Unscrew the other end piece from the main body.
- Start to screw the end piece back in place, and push the wire of the component being connected, so it is seated in the main body piece.
- Tighten the end piece.



- Install a **POSI-TAP** on the **YELLOW/GREEN** wire.
- Route the **BRAKE STROBE INTERFACE** from the **TURN SIGNAL/HORN SWITCH** harness.
- Determine the length of **BRAKE STROBE INTERFACE RED** wire needed to connect it to the **POSI-TAP** installed on the hydraulic brake switch **YELLOW/GREEN** wire.
- Cut the **BRAKE STROBE INTERFACE RED** wire to the proper length.
- Strip approximately 1/8" of insulation from the **BRAKE STROBE INTERFACE RED** wire.
- Insert the **BRAKE STROBE INTERFACE RED** wire end into the **POSI-TAP** and tighten the end piece.
- Secure wire with a **CABLE TIE**.

## 5. Install the DASH MOUNTED INDICATOR HARNESS

- Mark the desired locations in the dash for the two **DASH MOUNTED INDICATOR HARNESS** LED lights, where they are visible to the driver.
- Drill two 9/32" mounting holes in the dash for the indicator lights.

**HINT:** A little warmth and moisture help when installing the grommets, and again when installing the LEDs into the grommets.

**NOTE:** Carefully insert the DASH MOUNTED INDICATOR HARNESS LEDs into the grommets to prevent damage to the wires and resistor.

- Seat the rubber grommets into the drilled holes, and then carefully push the LEDs into the grommets from the rear, until the LED is flush or slightly protruding.



**NOTE:** This photo is on a different vehicle and is for illustration.

## 6. Install the FRONT TURN SIGNAL HARNESS

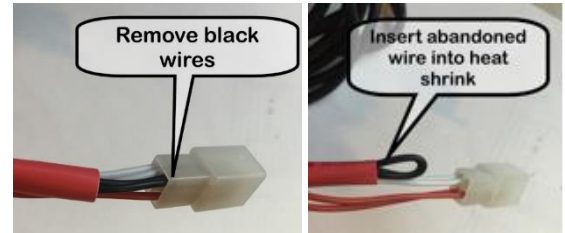
**Front Running Light Feature:** The front turn signal LEDs are running lights, and illuminate at 60% intensity when the vehicle ignition is on, and then flash at full intensity when the turn signals are activated.

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.

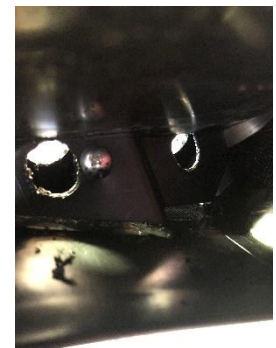


**IMPORTANT:** The locations of the six front LEDs are critical. There is a support point for the headlight that is near the center of the area where the LEDs are installed. Use of the **TEMPLATE** is recommended and extreme care when drilling the holes is required.

- Using the provided **TEMPLATE**, mark the location of the three front LEDs on each side of the vehicle.
- Mark the locations using a center punch.

**NOTE:** Use of a 5/16" pilot drill and step drill is HIGHLY recommended.

- Drill a 5/16" diameter pilot hole in the center hole only through the outer plastic.
- Drill 5/16" diameter pilot holes in the two outside holes through the outer plastic and the headlight support plastic.
- Using the step drill bit, drill the three 3/4" diameter holes through the front plastic.
- Using the pilot holes on the two outside holes as a guide, drill two 3/4" diameter holes from the back side in the headlight cover.
- Remove the screw from the headlight support where it connects to the outer plastic, to allow the routing of the center LED cable.



- Connect the **FRONT TURN SIGNAL HARNESS** 4 pin connector to the **TURN SIGNAL/HORN SWITCH** harness, matching 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.

**HINT:** A little warmth and moisture helps to slip everything together.

- Route the **FRONT TURN SIGNAL HARNESS** triple LEDs to the front corners of the vehicle.
- Slide the rubber flange gaskets on the LEDs back onto the wires.



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- Slip each LED through the applicable 3/4" diameter hole, with the two outside LEDs routed through the headlight cover and the front fascia. The center position only through the front fascia.
- Fold the flange gasket and push it through the hole.
- Install the flange gasket into the hole, with the flange of the gasket towards the front of the vehicle.
- Insert the LED into the flange gasket with a gentle pulling and rocking motion, to seat the LED into the gasket.
- Rotate the LEDs within the gasket as necessary to orient them in the same relative position.
- Reinstall the screw in the headlight support brace.



## 7. Install the REAR TURN SIGNAL HARNESS

- Connect the **REAR TURN SIGNAL HARNESS** 3 pin connector to the **TURN SIGNAL/HORN SWITCH** harness, matching the **RED** marking tape.

**NOTE:** Only the two outside pins of the REAR TURN SIGNAL HARNESS 3 pin connector are used. The rear turn signal circuit utilizes the existing vehicle ground.



- Remove the seat bottoms.
- Push the center of the plastic pins to release the plastic rivets, and then remove the plastic rivet entirely.
- Remove the center tunnel cover.
- Route the **REAR TURN SIGNAL HARNESS** from the front of the vehicle to the rear of the vehicle on the passenger side.
- Secure with **CABLE TIES**.

**NOTE:** Ensure the wiring does not contact moving components or hot surfaces.





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**IMPORTANT:** You MUST cut the vehicle **YELLOW/GREEN** wires, and connect to the **RED** and **BLACK** wires on the REAR TURN SIGNAL HARNESS. If you splice into the wires, rather than cut the wires, it will not function properly.



- At the rear access opening on the driver side locate the vehicle taillight harness 6 pin connector.
- Remove the connector from the vehicle attach point to provide better access to modify the wires.
- Unplug the connector on the rear taillight harness side of the 6 pin connector.
- Push the outer wrap back on the wires to expose the **YELLOW/RED** wires leading to the taillight assemblies.
- On the rear harness side of the connector cut the **YELLOW/RED** wires approximately 1"-2" from the connector.
- Strip approximately 1/8" of the wire insulation from each of the **YELLOW/RED** wires going to the taillight.

**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** to the vehicle taillight **YELLOW/RED** wires using the solderless connectors:

- Attach the **REAR TURN SIGNAL HARNESS** BLACK wire to the RIGHT taillight vehicle **YELLOW/RED** wire coming from connector position 5 (i.e., the furthest away from the mounting feature).
- Attach the **REAR TURN SIGNAL HARNESS** RED wire to the LEFT taillight vehicle **YELLOW/RED** wire coming from position 2 (i.e., the closest to the mounting feature).
- Abandon the cut vehicle **YELLOW/RED** wires COMING FROM THE FRONT OF THE VEHICLE, and wrap each wire end individually with electrical tape.

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

**8. Install the LICENSE PLATE LIGHT and PLATE HOLDER**

- Using the **PLATE HOLDER** as a guide, mark the location of the four mounting holes.
- Drill four 5/16" diameter holes in the exhaust cover body plastic.
- Install the **LICENSE PLATE LIGHT** in one of the top holes.

**NOTE:** Use the flange nut provided with the LICENSE PLATE LIGHT. DO NOT OVERTIGHTEN. The LICENSE PLATE LIGHT body is aluminum, and the threads can be stripped quite easily.

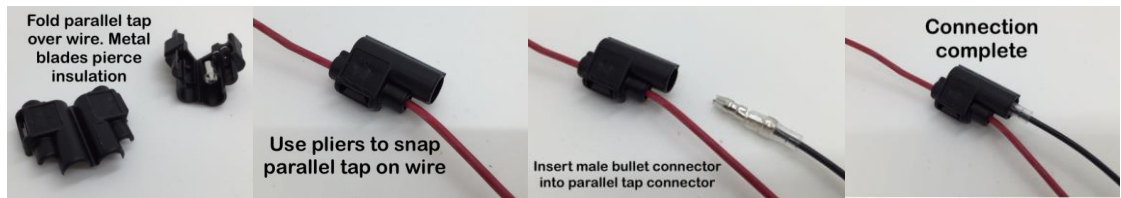
- Using three of the provided **FLANGE BOLTS** and **LOCK NUTS (RYCO-C)**, secure the **PLATE HOLDER** and license plate to the vehicle's body.



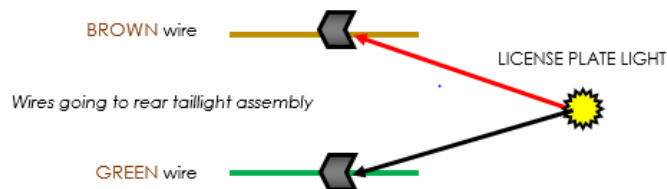
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**NOTE:** Check the orientation of the PARALLEL TAP connectors to ensure access for the male connectors, prior to seating the terminal with pliers.

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



- Remove the left taillight assembly.
- Unplug the taillight wire harness from the taillight assembly.
- Trim approximately 1½" of the outer cover from the wire harness where it plugs into the taillight assembly.
- Install a **PARALLEL TAP** connector on the **BROWN** wire and **GREEN** wires.
- Route the **LICENSE PLATE LIGHT** wires to the **PARALLEL TAPs** installed on the **BROWN** wire and **GREEN** wires.
- Connect the **LICENSE PLATE LIGHT RED** wire to the **BROWN** wire.
- Connect the **LICENSE PLATE LIGHT BLACK** wire to the **GREEN** wire.



## 9. Connect to the Main Power

**IMPORTANT:** The LEDs and FLASHER RELAY are polarity sensitive. The RYCO POWER, GROUND & HORN HARNESS **RED** 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.

**WARNING:** Damage to the FLASHER RELAY may occur if the wires are installed backwards.



- Ensure the ignition key is in the "OFF" position.
- Locate the auxiliary power outlet that is mounted under the top access cover on the drivers side.
- Remove the vehicle 2 pin connector and install the **PLUG & PLAY ADAPTER**.
- Connect the **RYCO POWER, GROUND & HORN HARNESS** to the **PLUG & PLAY ADAPTER**.
- Connect the **RYCO POWER, GROUND & HORN HARNESS RED** wire to the **PLUG & PLAY ADAPTER RED** wire and the **BLACK** wire to the **BLACK** wire.

## 10. Test


- Temporarily connect the **HORN** to test the kit functionality: Install the two flat spade connectors of the **RYCO POWER, GROUND & HORN HARNESS** from the **TURN SIGNAL/HORN SWITCH** harness to the **HORN** to the **HORN** terminals.

**NOTE:** Either connector can be installed on either HORN terminal.





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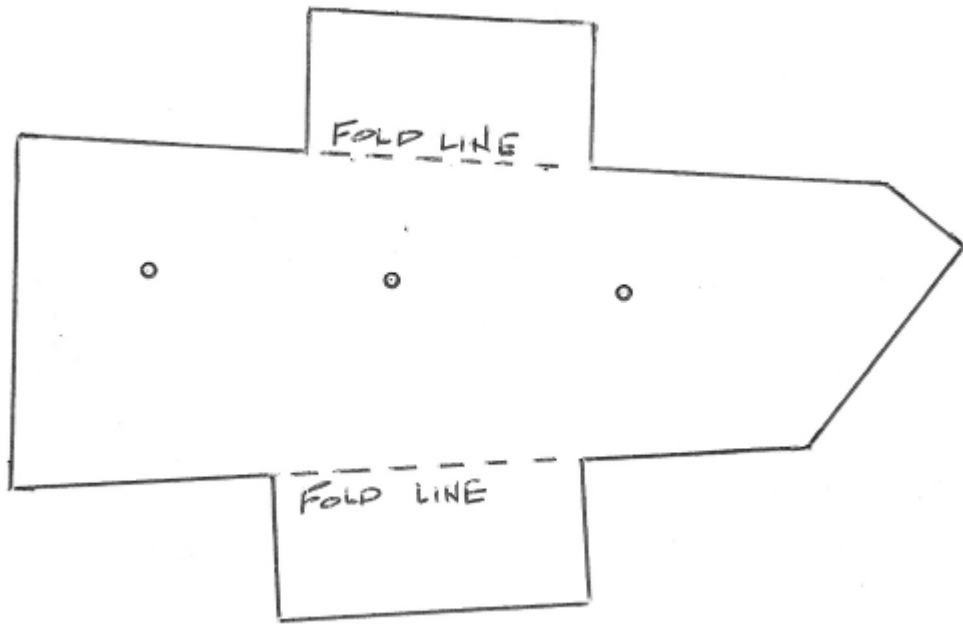
	<ul style="list-style-type: none"><li>• Double check all the connectors.</li><li>• Turn the ignition key to the "ON" position.</li><li>• Verify that the turn signals, four-way flasher, horn, brake, and license plate light work correctly.</li><li>• <b>Refer to the Troubleshooting Guide</b> at the end of this document as applicable.</li></ul>
11.	<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></ul>
12. Install the HORN	<p><b>EXPLANATION:</b> The HORN is installed using the existing fastener for the front hood. Install the horn while replacing the front hood / access cover.</p> <p><b>IMPORTANT:</b> Do not attempt to adjust the HORN or remove the center mounting nut that attaches the HORN to the horn mounting bracket.</p> <ul style="list-style-type: none"><li>• Position the <b>HORN</b> as shown.</li><li>• Secure with the existing fastener for the front hood.</li><li>• Route the <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> from the <b>TURN SIGNAL/HORN SWITCH</b> harness to the <b>HORN</b>.</li><li>• Install the two flat spade connectors to the <b>HORN</b> terminals.</li></ul> <p><b>NOTE:</b> Either connector can be installed on either HORN terminal.</p> 
13. Done	<ul style="list-style-type: none"><li>• Reinstall the covers front hood / access cover and seats.</li></ul>



# Turn Signal/Horn Kit 3107

Troubleshooting Guide							
Does It Work Correctly?	Front Turn Signals	Indicator Lights	Horn	Brake Lights	Rear Turn Signals	License Plate Light	Resolution
Scenario 1	✓	✓	✓	✓	✓	✓	Go riding!
Scenario 2	✓	✓	✓	No	No	✓	<b>BRAKE STROBE INTERFACE</b> not installed correctly. Refer to Step 4. The <b>REAR TURN SIGNAL HARNESS RED</b> and BLACK wires were connected to the wrong ends of the cut vehicle <b>ORANGE</b> wires. Refer to Step 7.
Scenario 3	✓	✓	✓	✓	✓	No	Ensure that the <b>LICENSE PLATE LIGHT RED</b> power and BLACK ground wires are connected correctly (i.e. cables are not reversed). Refer to Step 8.
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</b> BLACK 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 <b>FLASHER RELAY</b> , at no charge, to correct the problem.

Refer to Step 9.



TEMPLATE