




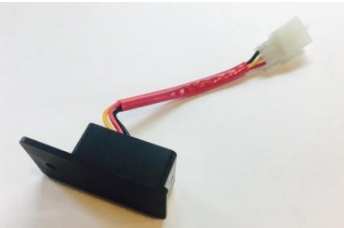








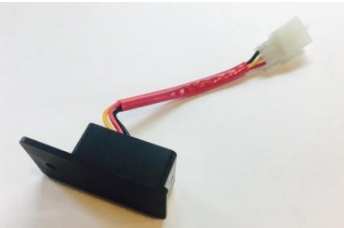








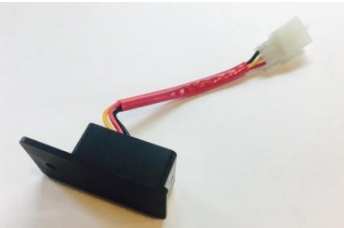















# Turn Signal/Horn Kit 2300

<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>YAMAHA YXZ1000R</b>, all years and models</li> </ul> <p><b>NOTE:</b> For models without a roof ask for the <b>ROLL CAGE ADAPTER TAILLIGHT BRACKET</b></p> <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></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>• 10 mm or 5/16" socket/nut driver or flat blade screwdriver</li> <li>• 9/32", 1/2", 3/4" and 7/8" diameter drill bit</li> <li>• Pliers or flat blade screwdriver</li> <li>• Phillips screwdriver</li> <li>• 10 mm wrench</li> <li>• center punch</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="310 831 716 1184"> <p><b>TURN SIGNAL/HORN SWITCH</b></p>  <p>The connectors interface with the various kit components.</p> </td> <td data-bbox="716 831 1122 1184"> <p><b>EXPANDABLE NUT AND FLANGE BOLT (RYCO-B)</b></p>  </td> <td data-bbox="1122 831 1528 1184"> <p><b>SELF-CANCELING FLASHER RELAY</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- No marking tape</li> </ul> </td> </tr> <tr> <td data-bbox="310 1184 716 1537"> <p><b>RYCO POWER, GROUND &amp; HORN HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 4 pin connector</li> <li>- GREEN marking tape</li> </ul> </td> <td data-bbox="716 1184 1122 1537"> <p><b>DASH MOUNTED INDICATOR HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- BLUE marking</li> </ul> </td> <td data-bbox="1122 1184 1528 1537"> <p><b>BRAKE STROBE MODULE</b></p>  <ul style="list-style-type: none"> <li>- 2 pin connector</li> <li>- No marking tape</li> </ul> </td> </tr> <tr> <td data-bbox="310 1537 716 1816"> <p><b>CABLE TIE</b></p>  </td> <td data-bbox="716 1537 1122 1816"> <p><b>PARALLEL TAP</b></p>  </td> <td data-bbox="1122 1537 1528 1816"> <p><b>HORN</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>EXPANDABLE NUT AND FLANGE BOLT (RYCO-B)</b></p> 	<p><b>SELF-CANCELING FLASHER RELAY</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- No marking tape</li> </ul>	<p><b>RYCO POWER, GROUND &amp; HORN HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 4 pin connector</li> <li>- GREEN marking tape</li> </ul>	<p><b>DASH MOUNTED INDICATOR HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- BLUE marking</li> </ul>	<p><b>BRAKE STROBE MODULE</b></p>  <ul style="list-style-type: none"> <li>- 2 pin connector</li> <li>- No marking tape</li> </ul>	<p><b>CABLE TIE</b></p> 	<p><b>PARALLEL TAP</b></p> 	<p><b>HORN</b></p> 
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<p><b>CABLE TIE</b></p> 	<p><b>PARALLEL TAP</b></p> 	<p><b>HORN</b></p> 										




# Turn Signal/Horn Kit 2300

What's in the box?	<b>FRONT LED HOLDERS</b> 	<b>SCREW CLAMP</b> 	<b>SCREW CLAMP COVER</b> 	
	<b>FRONT TURN SIGNAL HARNESS</b>  - 4 pin connector - RED marking tape	<b>REAR TURN SIGNAL HARNESS</b>  - 3 pin connector - RED marking tape	<b>REAR LED</b> 	
	<b>REAR LED HOLDERS</b> 	<b>PLATE HOLDER</b> 		
	<b>Installation Steps</b> <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>			
<b>1. Mount the TURN SIGNAL/HORN SWITCH</b>	<p><b>NOTE:</b> The TURN SIGNAL/HORN SWITCH should NOT have any of the 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>• Ensure the ignition key is in the "OFF" position, and the key is removed.</li> <li>• Remove the vehicle front access cover and rear air filter access cover.</li> <li>• Tilt the steering wheel to the uppermost position to provide easier access.</li> <li>• Remove the 6mm fastener on the outboard side lower steering wheel cover.</li> </ul> <div style="display: flex; justify-content: space-around;"> <div data-bbox="339 1522 724 1808"></div> <div data-bbox="751 1522 1133 1808"></div> <div data-bbox="1203 1472 1495 1856"></div> </div> <ul style="list-style-type: none"> <li>• Reinstall until snug, but do not tighten, the 6mm fastener in the end hole of the <b>TURN SIGNAL/HORN SWITCH</b> bracket.</li> </ul>			

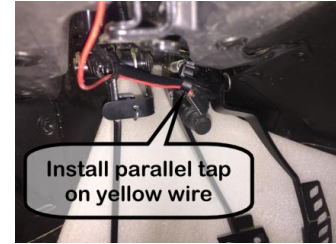


# Turn Signal/Horn Kit 2300

	<ul style="list-style-type: none"> <li>• Rotate the <b>TURN SIGNAL/HORN SWITCH</b> up into position, and mark the location of the second hole.</li> <li>• Rotate the <b>TURN SIGNAL/HORN SWITCH</b> and bracket out of the way, and drill a 1/2" diameter hole in the plastic cover.</li> <li>• Insert the <b>EXPANDABLE NUT</b> in the hole, rotate the <b>TURN SIGNAL/HORN SWITCH</b> back into position, and then install the 6mm fastener in the <b>EXPANDABLE NUT</b> and snug both fasteners.</li> <li>• Mark the location for an access hole for the <b>TURN SIGNAL/HORN SWITCH</b> wires.</li> <li>• Rotate the <b>TURN SIGNAL/HORN SWITCH</b> and bracket back down, and drill a 7/8" diameter hole in the plastic cover.</li> <li>• Insert the <b>TURN SIGNAL/HORN SWITCH</b> cable connectors through the 7/8" hole one at a time.</li> <li>• Route the <b>TURN SIGNAL/HORN SWITCH</b> cable towards the center of the vehicle.</li> <li>• Reinstall the <b>TURN SIGNAL/HORN SWITCH</b>.</li> </ul>
<p><b>2.</b> <b>Connect the Components to the TURN SIGNAL/HORN SWITCH Harness</b></p>	<p><b>IMPORTANT:</b> Match the colors of the <u>marking tape</u> on the wires when you install the components (e.g., <b>RED</b> to <b>RED</b>, <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, matching the colors of the marking tape on the wires:</p> <ul style="list-style-type: none"> <li>• <b>SELF-CANCELING 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),</li> <li>• <b>DASH MOUNTED INDICATOR HARNESS</b> (3 pin <b>BLUE</b> marking), and</li> <li>• <b>BRAKE STROBE MODULE</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 SELF-CANCELING FLASHER RELAY can be bundled and secured with a CABLE TIE to the TURN SIGNAL/HORN SWITCH harness.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Self-Canceling Flasher Relay Feature:</b> 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.</p> </div>
<p><b>3.</b> <b>Install the BRAKE STROBE INTERFACE</b></p>	<p><b>Brake Strobe Feature:</b> 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.</p> <p><u>If you wish to disable the strobe feature:</u></p> <ul style="list-style-type: none"> <li>○ On the BRAKE STROBE INTERFACE cut the BLACK ground wire, or remove the BLACK ground wire from the 2 pin connector.</li> <li>○ Cut the two RED wires going into the BLACK cylindrical component.</li> <li>○ Splice the two RED wires together.</li> </ul> <div style="text-align: right; margin-top: 10px;">  </div>

# Turn Signal/Horn Kit 2300

- Locate the wires leading to the vehicle brake switch.
- Trace the wires from the brake switch to the 2 pin connector.
- Install a **PARALLEL TAP** on the vehicle **YELLOW** wire coming from the vehicle brake switch.



**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.



- 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 vehicle brake switch **YELLOW** wire.

## 4. Install the DASH MOUNTED INDICATOR HARNESS

- Remove the fastener and two push rivets from the instrument cluster cover.
- Remove the cover and route the **DASH MOUNTED INDICATOR HARNESS** through the push rivet openings.
- Reinstall the cover by reinstalling the fastener.



- Cut the very end of the outer component of the two part rivet where the three fingers come together.
- Run the **DASH MOUNTED INDICATOR HARNESS** LED and wire through the outer push rivet.
- Place the outer push rivet back into the push rivet holes and carefully push the LED into the center of the outer push rivet.
- Discard the inner plastic push rivet.
- Discard the two rubber grommets.

## 5. Install the HORN

**IMPORTANT:** Do not attempt to adjust the HORN or remove the center mounting nut that attaches the HORN to the horn mounting bracket.

- Remove the 6mm fastener holding the hydraulic clutch reservoir.
- Route the **RYCO POWER, GROUND & HORN HARNESS** from the **TURN SIGNAL/HORN SWITCH** harness to the **HORN**.
- Install the two flat spade connectors to the **HORN** terminals.

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

- Install the **HORN** as shown using the existing 6mm fastener.







# Turn Signal/Horn Kit 2300

## 6. Install the FRONT TURN SIGNAL HARNESS

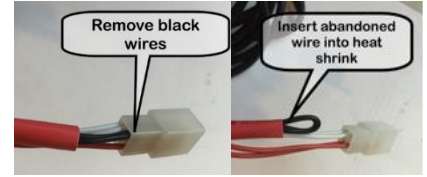
**Front Running Lights Feature:** The front turn signal LEDs are running lights, and illuminate at 60% intensity when the vehicle ignition is on, and then flash at full intensity when the turn signals are activated.

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.



- Connect the **FRONT TURN SIGNAL HARNESS** to the 4 pin connector on the **TURN SIGNAL/HORN SWITCH** harness with the **RED** marking tape.
- Route the **FRONT TURN SIGNAL HARNESS** LEDs to the front corners of the vehicle.

**Alternative Front Turn Signal LED Installation:** Ryco Moto provides FRONT LED HOLDERS for installation of the front turn signal LEDs. Another option some of our customers choose for placement of the front turn signal LEDs is to drill into the hood plastic above the headlights.

If you wish to install the front turn signal LEDs directly into the vehicle plastic,

- Determine the locations of the front LEDs as desired.

**HINT:** 1¼" - 1½" spacing between the holes works well.

- Mark the locations using a center punch.

**NOTE:** Use of a step drill is recommended.

- Drill three ¾" diameter holes for each set of front turn signal LEDs.
- Complete the following steps to finish installation of the FRONT TURN SIGNAL HARNESS.

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

- To install the **FRONT TURN SIGNAL HARNESS** LEDs into the **FRONT LED HOLDERS** or drilled plastic, as applicable, slide the rubber flange gaskets that are on the LEDs back onto the wires.
- Slip each LED through the applicable hole in the **FRONT LED HOLDER** or drilled plastic, fold the flange gasket, and then push it through the hole.






**NOTE:** 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.

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




# Turn Signal/Horn Kit 2300

	<p><b>If you are installing FRONT LED HOLDERS on an..</b></p>	<p><b>Install the FRONT LED HOLDERS on...</b></p>
	<p>SE model</p> 	<p>the top side of the front shocks, using the provided <b>SCREW CLAMPS</b> and <b>SCREW CLAMP COVER</b>.</p> <p><b>NOTE:</b> The FRONT LED HOLDERS should be mounted so the clamps are NOT on the threaded portion of the shock. Position the FRONT LED HOLDERS at the very uppermost position of the shocks. Leave a small amount of slack in the LED cables as there is a small amount of movement in the upper end of the shocks.</p>
	<p>SS model</p> 	<p>the shock hydraulic reservoirs, using the provided <b>SCREW CLAMPS</b> and <b>SCREW CLAMP COVER</b>.</p> <p><b>NOTE:</b> Leave a small amount of slack in the LED cables as there is a small amount of movement in the upper end of the shocks.</p>
<p><b>7. Install the REAR TURN SIGNAL HARNESS, REAR LEDS, PLATE HOLDER, and LICENSE PLATE LIGHT</b></p>	<ul style="list-style-type: none"> <li>• Install the <b>FRONT LED HOLDERS</b> as applicable.</li> <li>• Rotate the LEDs within the gasket as necessary to orient them in the same relative position.</li> </ul> <p><b>HINT:</b> Vertical is recommended.</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> <li>• Remove the rear center console.</li> <li>• Remove the fasteners on the front cover to provide access to the center tunnel.</li> <li>• Remove the push pins on the center tunnel on the driver side, and pull the side panel on the center cover to provide access to then route the <b>REAR TURN SIGNAL HARNESS</b> from the front of the vehicle, to the rear of the vehicle.</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>• Install the <b>REAR LEDS</b> into the <b>REAR LED HOLDERS</b>.</li> </ul> <p><b>EXPLANATION:</b> One of the REAR LED HOLDERS has an additional bent tab. This is the PASSENGER side REAR LED HOLDER, as the tab covers the white light on the bottom of the REAR LED. The other REAR LED HOLDER and PLATE HOLDER are installed on the DRIVER side, where the white light on the REAR LED faces down and projects onto the license plate.</p>  <p><b>License plate holder</b></p> <ul style="list-style-type: none"> <li>• Install the <b>REAR LEDS</b>, <b>REAR LED HOLDERS</b> and <b>PLATE HOLDER</b> on the underside of the roof, using the provided 6mm x 16mm fasteners and lock nuts.</li> <li>• Route the <b>REAR TURN SIGNAL HARNESS</b> to the appropriate <b>REAR LED</b>, and connect.</li> </ul> <p><b>NOTE:</b> Ensure the wiring does not contact moving components or hot surfaces.</p>	



# Turn Signal/Horn Kit 2300

<p><b>8.</b> <b>Connect to the Main Power</b></p>	<ul style="list-style-type: none"><li>• Ensure that the ignition key is in the "OFF" position.</li><li>• At the front access opening locate the wires leading to the auxiliary power outlet.</li></ul> <p><b>NOTE:</b> 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.</p> <ul style="list-style-type: none"><li>• Install a <b>PARALLEL TAP</b> connector on the both the WHITE/BLACK power wire, and the <b>GREEN</b> ground wires going to the auxiliary power outlet.</li></ul>  <p><b>IMPORTANT:</b> The LEDs and SELF-CANCELING FLASHER RELAY are polarity sensitive. The RYCO POWER,GROUND &amp; HORN HARNESS fused wire <b>MUST</b> 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 SELF-CANCELING FLASHER RELAY may occur if the wires are installed backwards.</p> <p>Connect the <b>RYCO POWER,GROUND &amp; HORN HARNESS</b> to the <b>PARALLEL TAP</b> connectors on the auxiliary power outlet wires:</p> <ul style="list-style-type: none"><li>• Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS RED</b> wire to the vehicle WHITE/BLACK power wire.</li><li>• Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> wire to the vehicle <b>GREEN</b> ground wire.</li></ul>
<p><b>9.</b> <b>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>• Turn the headlight switch on.</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.</li></ul>
<p><b>10.</b> <b>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 covers and seats.</li></ul>



# Turn Signal/Horn Kit 2300

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 3.
Scenario 3	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 4	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 5	No	No	✓	✓	No	✓	If the turn signal lights illuminate but do not flash,
Scenario 6	No	No	✓	No	No	No	If the turn signal lights do not illuminate but the horn works,
							then the <b>SELF-CANCELING 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>SELF-CANCELING FLASHER RELAY</b> , at no charge, to correct the problem.
							Refer to Step 8.