





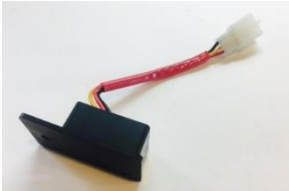











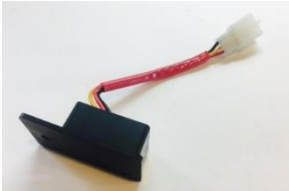











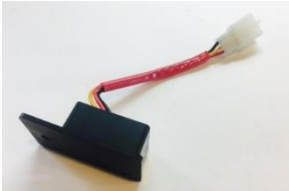


















Turn Signal/Horn Kit 4200

<p>Before you begin</p>	<p>STOP! THIS KIT IS DESIGNED SPECIFICALLY FOR</p> <ul style="list-style-type: none"> KAWASAKI TERYX KRX 1000 <p>IF YOUR VEHICLE IS NOT THIS MODEL, DO NOT PROCEED. Contact Ryco Motorsports or your local dealer for the correct kit.</p>														
<p>Where do I start?</p>	<p>Please read and follow the instructions.</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>What tools do I need?</p>	<ul style="list-style-type: none"> 10mm or 5/16" socket/nut driver or flat blade screwdriver 7mm, 3/4", and 9/32" diameter drills Center punch Drill motor <div style="display: flex; justify-content: space-around;">    </div>														
<p>What's in the box?</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="310 779 716 1062" style="text-align: center;"> <p>SCREW CLAMP</p>  </td> <td data-bbox="716 779 1122 1062" style="text-align: center;"> <p>CLAMP COVER</p>  </td> <td data-bbox="1122 779 1528 1062" style="text-align: center;"> <p>TURN SIGNAL/HORN SWITCH</p>  <p>The connectors interface with the various kit components.</p> </td> </tr> <tr> <td data-bbox="310 1062 716 1377" style="text-align: center;"> <p>SELF-CANCELING FLASHER RELAY</p>  <p>- 3 pin connector - No marking tape</p> </td> <td data-bbox="716 1062 1122 1377" style="text-align: center;"> <p>RYCO POWER, GROUND & HORN HARNESS</p>  <p>- 4 pin connector - GREEN marking tape</p> </td> <td data-bbox="1122 1062 1528 1377" style="text-align: center;"> <p>BRAKE STROBE MODULE</p>  <p>- 2 pin connector - No marking tape</p> </td> </tr> <tr> <td data-bbox="310 1377 716 1619" style="text-align: center;"> <p>CABLE TIE</p>  </td> <td data-bbox="716 1377 1122 1619" style="text-align: center;"> <p>HORN</p>  </td> <td data-bbox="1122 1377 1528 1619" style="text-align: center;"> <p>PLASTIC SPACER</p>  </td> </tr> <tr> <td data-bbox="310 1619 716 1932" style="text-align: center;"> <p>PARALLEL TAP</p>  </td> <td data-bbox="716 1619 1122 1932" style="text-align: center;"> <p>DASH MOUNTED INDICATOR HARNESS</p>  <p>- 3 pin connector - BLUE marking tape</p> </td> <td data-bbox="1122 1619 1528 1932" style="text-align: center;"> <p>FRONT TURN SIGNAL LEDS</p>  <p>- 3 pin connector - RED marking tape</p> </td> </tr> </table>			<p>SCREW CLAMP</p> 	<p>CLAMP COVER</p> 	<p>TURN SIGNAL/HORN SWITCH</p>  <p>The connectors interface with the various kit components.</p>	<p>SELF-CANCELING FLASHER RELAY</p>  <p>- 3 pin connector - No marking tape</p>	<p>RYCO POWER, GROUND & HORN HARNESS</p>  <p>- 4 pin connector - GREEN marking tape</p>	<p>BRAKE STROBE MODULE</p>  <p>- 2 pin connector - No marking tape</p>	<p>CABLE TIE</p> 	<p>HORN</p> 	<p>PLASTIC SPACER</p> 	<p>PARALLEL TAP</p> 	<p>DASH MOUNTED INDICATOR HARNESS</p>  <p>- 3 pin connector - BLUE marking tape</p>	<p>FRONT TURN SIGNAL LEDS</p>  <p>- 3 pin connector - RED marking tape</p>
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	<p>REAR TURN SIGNAL HARNESS</p>  <ul style="list-style-type: none"> - 3 pin connector - RED marking tape 	<p>PLATE HOLDER</p> 	<p>LICENSE PLATE LIGHT and FLANGE NUT</p> 
	<p>TERMINAL BLOCK ADAPTER</p> 		
<p>Installation Steps</p>	<p>NOTE: Where possible run new cables alongside the existing wires, and use existing cable ties/anchors where practical.</p> <p>IMPORTANT: Ensure that the wiring and installed hardware do not contact moving components or hot surfaces.</p> <ul style="list-style-type: none"> • Turn the ignition key to start the engine, step on the brake pedal, and verify that the brake lights function correctly. <ul style="list-style-type: none"> ◦ If yes, continue to Step 1. ◦ If no, adjust the vehicle brake switch until the brake lights function, and then continue to Step 1. 		
<p>1.</p>	<ul style="list-style-type: none"> • Remove the front hood, center dash cover by removing two screws and four push pins, drivers side seat by removing the four screws, and tunnel cover by removing the screws in the cup holders and seven push pins. 		
<p>2. Mount the TURN SIGNAL/HORN SWITCH</p>	<p>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.</p> <ul style="list-style-type: none"> • Install the SCREW CLAMP and decorative SCREW CLAMP COVER on the TURN SIGNAL/HORN SWITCH as shown, with the screw mechanism on the bottom facing out. • Secure the TURN SIGNAL/HORN SWITCH to the vehicle steering column as shown, using a 10mm or 5/16" socket/nut driver or flat blade screwdriver. • Route the TURN SIGNAL/HORN SWITCH wires between the steering column and the tilt mechanism, and then up under the dash towards the center of the dash. 		



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3. Connect Components to the TURN SIGNAL/HORN SWITCH to 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), and
- **BRAKE STROBE INTERFACE** (2 pin NO marking).



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

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

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

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

4. 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.

- Mount the **HORN** on the empty welded nut in the center of the dash using the provided 6mm fastener.
- Route the **RYCO POWER, GROUND & HORN HARNESS** to the **HORN**.
- Install the two flat spade connectors to the **HORN** terminals.



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

5. 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, alter the BRAKE STROBE INTERFACE before installation:

- 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.

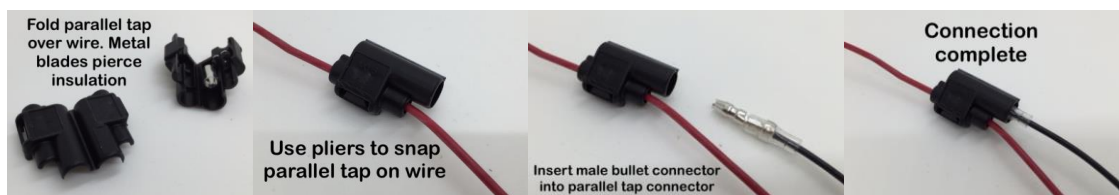


- Locate the vehicle brake switch at the brake pedal. Push the sleeve back to expose the two wires going to the switch.
- Install a **PARALLEL TAP** on the vehicle **BROWN** wire.

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

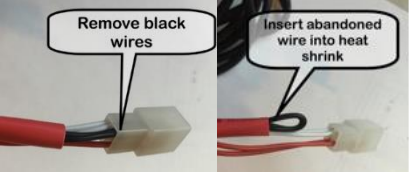




How to Install a PARALLEL TAP: The wire colors may not match your application but are for illustration.





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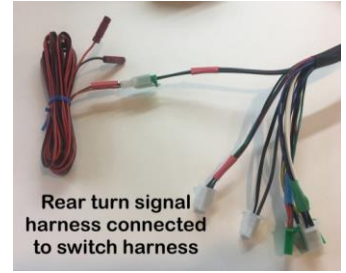
	<ul style="list-style-type: none"> Route the BRAKE STROBE INTERFACE wire from the TURN SIGNAL/HORN SWITCH harness. Connect the BRAKE STROBE INTERFACE wire to the PARALLEL TAP installed on the hydraulic brake switch BROWN wire.
<p>6. Install the DASH MOUNTED INDICATOR HARNESS</p>	<p>NOTE: Carefully insert the LEDs into the grommets to prevent damage to the wires and resistor.</p> <p>HINT: A little warmth and moisture help when installing the grommets, and again when installing the LEDs into the grommets.</p> <ul style="list-style-type: none"> 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. 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. Connect the DASH MOUNTED INDICATOR HARNESS 3 pin connector on the TURN SIGNAL/HORN SWITCH harness, matching the BLUE marking tape.
<p>7. Install the FRONT TURN SIGNAL HARNESS</p>	<p>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.</p> <p><u>If you wish to disable the running light feature,</u></p> <ul style="list-style-type: none"> On the FRONT TURN SIGNAL HARNESS remove the BLACK wire in the 4 position connector. <p>NOTE: Use a very fine flat blade screwdriver or similar tool to depress the metal tab on the pin joining the two black wires.</p> <ul style="list-style-type: none"> 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.  <ul style="list-style-type: none"> Determine the locations of the front LEDs as desired. <p>HINT: 1¼"-1½" spacing between the holes and the corner of the headlight frame, as shown, and approximately 5/8" down from the horizontal edge of the headlight frame, works well.</p>  <p>NOTE: Use of a stepped drill is recommended.</p> <ul style="list-style-type: none"> Mark the locations using a center punch. Drill three ¾" diameter holes for each set of front turn signal LEDs. Connect the FRONT TURN SIGNAL HARNESS to the 4 pin connector on the TURN SIGNAL/HORN SWITCH harness with the RED marking tape. <p>NOTE: The tags on the FRONT TURN SIGNAL HARNESS are marked "L" for the driver side, and "R" for the passenger side.</p> <p>HINT: A little warmth and moisture helps to slip everything together.</p> <ul style="list-style-type: none"> Route the FRONT TURN SIGNAL HARNESS triple LEDs to the front corners of the vehicle. Slide the rubber flange gaskets that are on the LEDs back onto the wires. Slip each LED through the applicable ¾" diameter hole, 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. 



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8. Install the REAR TURN SIGNAL HARNESS

- From the area behind the dash route the **REAR TURN SIGNAL HARNESS** 3 pin connector through the grommet in the firewall.
- Connect the **REAR TURN SIGNAL HARNESS** to the 3 pin connector on the **TURN SIGNAL/HORN SWITCH** harness, matching the **RED** color coded marking tape.



NOTE: 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.

- Route the **REAR TURN SIGNAL HARNESS** cable alongside the existing wires, where practical, to the rear of the vehicle.
- Secure with **CABLE TIES**.

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

NOTE: You **MUST** cut the vehicle **BLUE** 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 driver side taillight assembly, cut the vehicle **BLUE** wire approximately 2 inches in front of the taillight connector.
- Abandon the cut vehicle **BLUE** wire **coming from the front of the vehicle**, and tuck into the protective sleeve and/or wrap with electrical tape.
- At the passenger side taillight assembly, unplug the taillight connector.
- Expose only the **BLUE** wire for approximately 2 inches.
- Cut the vehicle **BLUE** wire approximately 2 inches in front of the connector.
- Abandon the cut vehicle **BLUE** wire **coming from the front of the vehicle**, and tuck into the protective sleeve and/or wrap with electrical tape.



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

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

- Reinstall the two taillight connectors.



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9. Install the PLATE HOLDER and LICENSE PLATE LIGHT

- Using the **PLATE HOLDER** as a guide, mark the location of the two mounting holes.
- Drill two 7mm holes in the plastic body at the center rear of the vehicle to mount the **PLATE HOLDER**.
- Using two flange bolts and lock nuts provided, secure the **PLATE HOLDER** to the body of the vehicle.
- Drill one 7mm hole for the **LICENSE PLATE LIGHT**.
- Install the **LICENSE PLATE LIGHT** and secure it with the provided flange nut.



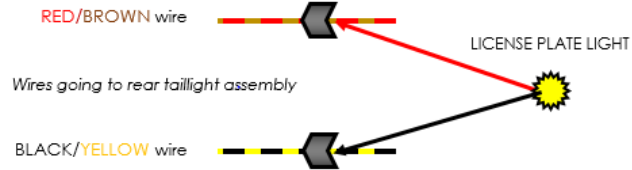
EXPLANATION: The LICENSE PLATE LIGHT is installed in the single hole where the light will shine on the license plate.

IMPORTANT: DO NOT overtighten the nut on the LICENSE PLATE LIGHT. The LICENSE PLATE LIGHT body is aluminum, and the threads can be stripped quite easily.

10.



- Locate the vehicle harness with two female bullet connectors on the rear driver side of the vehicle.
- Route the **LICENSE PLATE LIGHT** wires to the bullet connectors.
- Connect **LICENSE PLATE LIGHT RED** wire to the **BROWN** wire marked ACC(+).
- Connect **LICENSE PLATE LIGHT BLACK** wire to the **BLACK/YELLOW** wire marked ACC(-).





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<p>11. Connect to the Main Power</p>	<ul style="list-style-type: none">• Ensure that the ignition key is in the "OFF" position. <div data-bbox="402 233 841 562"></div> <div data-bbox="987 233 1438 571"></div> <ul style="list-style-type: none">• At the auxiliary power terminal block located behind the center dash, install the TERMINAL BLOCK ADAPTER:<ul style="list-style-type: none">○ Loosen the two terminals with the RED and BLACK boots.○ Install the TERMINAL BLOCK ADAPTER RED wire split ring terminal under the nut on the stud with the RED boot.○ Install the TERMINAL BLOCK ADAPTER <u>two</u> BLACK wire split ring terminal under the nut on the stud with the BLACK boot. <p>IMPORTANT: The LEDs and SELF-CANCELING FLASHER RELAY are polarity sensitive. The RYCO POWER,GROUND & 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>WARNING: Damage to the SELF-CANCELING FLASHER RELAY may occur if the wires are installed backwards.</p> <ul style="list-style-type: none">• Route the RYCO POWER,GROUND & HORN HARNESS BLACK fused wires towards the terminal block.• Connect the RYCO POWER, GROUND & HORN HARNESS RED wire to the TERMINAL BLOCK ADAPTER RED wire.• Connect the RYCO POWER, GROUND & HORN HARNESS BLACK wire to the the TERMINAL BLOCK ADAPTER BLACK wire.
<p>12. Test</p>	<ul style="list-style-type: none">• Double check all the connectors.• Turn the ignition key to the "ON" position.• Verify that the turn signals, 4-way flasher, horn, brake, and license plate light work correctly.• Refer to the Troubleshooting Guide at the end of this document.
<p>13. Done</p>	<p>IMPORTANT: Ensure that the wiring and installed hardware do not contact moving components or hot surfaces.</p> <ul style="list-style-type: none">• Once all the cabling is in place and functionality is verified, double check the routing, and secure with CABLE TIES.• Bundle any extra cable length and secure with the CABLE TIES.• Reinstall covers and seats.



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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	✓	✓	Verify that the vehicle's mechanical brake switch is adjusted correctly.
Scenario 3	✓	✓	✓	No	✓	✓	BRAKE STROBE INTERFACE not installed correctly. Refer to Step 5.
Scenario 4	✓	✓	✓	No	No	✓	BRAKE STROBE INTERFACE not installed correctly. Refer to Step 5.
							The REAR TURN SIGNAL HARNESS RED and BLACK wires were connected to the wrong ends of the cut vehicle wires. Refer to Step 8.
Scenario 5	✓	✓	✓	✓	✓	No	Ensure that the LICENSE PLATE LIGHT RED power and BLACK ground wires are connected correctly (i.e. cables are not reversed). Refer to Step 10.
Scenario 6	No	No	✓	No	No	No	Ensure that the RYCO POWER, GROUND & HORN HARNESS RED main power and BLACK ground wires are connected correctly (i.e., the cables are not reversed).
Scenario 7	No	No	No	✓	✓	No	Ensure that the RYCO POWER, GROUND & HORN HARNESS BLACK ground wire is connected to a good ground.
Scenario 8	No	No	✓	✓	No	✓	If the turn signal lights illuminate but do not flash, the SELF-CANCELING FLASHER RELAY is damaged or defective. Contact Ryco Motorsports by email or phone, provide your shipping address, and we will send you a replacement SELF-CANCELING FLASHER RELAY , at no charge, to correct the problem.

Refer to Step 11.