



































Turn Signal/Horn Kit 9202

<p>Before you begin</p>	<p>STOP! THIS KIT IS DESIGNED SPECIFICALLY FOR</p> <ul style="list-style-type: none"> • ARCTIC CAT HDX / HDX CREW all years, • ARCTIC CAT PROWLER all years (except Prowler 500, 2017 and newer), • TEXTRON OFF ROAD HAVOC / HAVOC X all years, • TEXTRON OFF ROAD STAMPEDE / STAMPEDE 4 all years. <p>IF YOUR VEHICLE IS NOT ONE OF THESE MODELS, 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"> • 10 mm or 5/16" socket/nut driver or flat blade screwdriver • 9/32" and 3/4" diameter drill bit NOTE: A stepped bit works well • Pliers or flat blade screwdriver • Phillips screwdriver • 10 mm wrench • 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, listed in order of use.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td data-bbox="310 993 716 1283"> <p>TURN SIGNAL/HORN SWITCH</p>  <p>- The connectors interface with the various kit components.</p> </td> <td data-bbox="716 993 1122 1283"> <p>EXPANDABLE NUT</p>  </td> <td data-bbox="1122 993 1528 1283"> <p>INVERTED U-SHAPED BRACKET</p>  </td> </tr> <tr> <td data-bbox="310 1283 716 1560"> <p>SCREW CLAMP SWITCH BRACKET</p>  </td> <td data-bbox="716 1283 1122 1560"> <p>SCREW CLAMP</p>  </td> <td data-bbox="1122 1283 1528 1560"> <p>SCREW CLAMP COVER</p>  </td> </tr> <tr> <td data-bbox="310 1560 716 1881"> <p>SELF-CANCELING FLASHER RELAY</p>  <p>- 3 pin connector - No marking tape</p> </td> <td data-bbox="716 1560 1122 1881"> <p>RYCO POWER, GROUND & FUSE HARNESS</p>  <p>- 4 pin connector - GREEN marking tape</p> </td> <td data-bbox="1122 1560 1528 1881"> <p>DASH MOUNTED INDICATOR HARNESS</p>  <p>- 3 pin connector - BLUE marking tape</p> </td> </tr> </table>			<p>TURN SIGNAL/HORN SWITCH</p>  <p>- The connectors interface with the various kit components.</p>	<p>EXPANDABLE NUT</p> 	<p>INVERTED U-SHAPED BRACKET</p> 	<p>SCREW CLAMP SWITCH BRACKET</p> 	<p>SCREW CLAMP</p> 	<p>SCREW CLAMP COVER</p> 	<p>SELF-CANCELING FLASHER RELAY</p>  <p>- 3 pin connector - No marking tape</p>	<p>RYCO POWER, GROUND & FUSE HARNESS</p>  <p>- 4 pin connector - GREEN marking tape</p>	<p>DASH MOUNTED INDICATOR HARNESS</p>  <p>- 3 pin connector - BLUE marking tape</p>
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Turn Signal/Horn Kit 9202

	<p>CABLE TIES</p> 	<p>HORN</p> 	<p>PLASTIC SPACER</p> 																			
	<p>FRONT TURN SIGNAL HARNESS</p>  <p>- 4 pin connector - RED marking tape</p>	<p>REAR TURN SIGNAL HARNESS</p>  <p>- 3 pin connector - RED marking tape</p>	<p>PARALLEL TAP</p> 																			
	<p>PLATE HOLDER</p> 	<p>TWO HOLE ADAPTER</p> 	<p>LICENSE PLATE LIGHT</p> 																			
	<p>FLANGE BOLTS and LOCK NUTS</p> 	<p>LICENSE PLATE LIGHT EXTENSION</p> 	<p>SAE 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>																					
<p>1. Mount the TURN SIGNAL/HORN SWITCH</p>	<p>NOTE: 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"> Ensure the ignition key is in the "OFF" position, and the key is removed. <table border="1"> <thead> <tr> <th>If you are installing on a(n)...</th> <th>Model year...</th> <th>Go to...</th> </tr> </thead> <tbody> <tr> <td>HAVOC</td> <td rowspan="3">All,</td> <td rowspan="3">Step 2.</td> </tr> <tr> <td>STAMPEDE</td> </tr> <tr> <td>STAMPEDE 4</td> </tr> <tr> <td>HDX</td> <td>2016 and newer,</td> <td>Step 3.</td> </tr> <tr> <td></td> <td>2015 and older,</td> <td>Step 4.</td> </tr> <tr> <td rowspan="2">PROWLER</td> <td>2016 and newer,</td> <td>Step 3.</td> </tr> <tr> <td>2015 and older,</td> <td>Step 4.</td> </tr> </tbody> </table>			If you are installing on a(n)...	Model year...	Go to...	HAVOC	All,	Step 2.	STAMPEDE	STAMPEDE 4	HDX	2016 and newer,	Step 3.		2015 and older,	Step 4.	PROWLER	2016 and newer,	Step 3.	2015 and older,	Step 4.
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Turn Signal/Horn Kit 9202

<p>2. Mount the TURN SIGNAL/ HORN SWITCH on HAVOC, STAMPEDE or STAMPEDE 4</p>	<ul style="list-style-type: none">• Position the TURN SIGNAL/HORN SWITCH with the switch bracket on the bottom side of the steering column shaft cover.• Position the switch bracket and mark the location for the two mounting holes.• Drill two ½" diameter holes.• Install the two EXPANDABLE NUTS in the holes.• Reinstall the TURN SIGNAL/HORN SWITCH and switch bracket on the steering wheel housing.• Go to Step 5. 
<p>3. Mount the TURN SIGNAL/ HORN SWITCH on HDX or PROWLER 2016 and newer</p>	<ul style="list-style-type: none">• Remove the L-shaped bracket from the TURN SIGNAL/HORN SWITCH, and reserve the screws.• Install the provided INVERTED U-SHAPED BRACKET onto the switch, using the screws removed from L-shaped bracket.• Remove the nut on the tilt wheel mechanism. <p>NOTE: Do not remove the shoulder bolt.</p> <ul style="list-style-type: none">• Push the shoulder bolt so the threaded end is flush with the steering wheel column bracket.• Slip the INVERTED U-SHAPED BRACKET on the TURN SIGNAL/HORN SWITCH over the steering column.• Reinstall the nut on the shoulder bolt.• Torque the nut to 10 in-lb. <p>NOTE: You may need to put some pressure on the SWITCH BRACKET to force it over the steering column, and again to align the hole with the shoulder bolt.</p>    



Turn Signal/Horn Kit 9202



4.
Mount the
TURN SIGNAL/
HORN SWITCH
on HDX or
PROWLER
2015 and
older

- Remove the L-shaped bracket from the **TURN SIGNAL/HORN SWITCH**.
- Install the provided **SCREW CLAMP SWITCH BRACKET**.
- Install the **SCREW CLAMP SWITCH BRACKET COVER**.



Install screw clamp and decorative cover

- Install the **TURN SIGNAL/HORN SWITCH** on the steering column, using the applicable **SCREW CLAMP**:

If you are installing on a model...	Use the...
with tilt steering,	large SCREW CLAMP . 
without tilt steering,	small SCREW CLAMP . 

NOTE: Do not overtighten the SCREW CLAMP.

- Remove the fasteners holding the dash in place.
- Pull the dash out to allow access to the back side of the auxiliary power plug and the **TURN SIGNAL/HORN SWITCH** connectors.





Turn Signal/Horn Kit 9202

5. Connect the TURN SIGNAL/HORN SWITCH to Harnesses

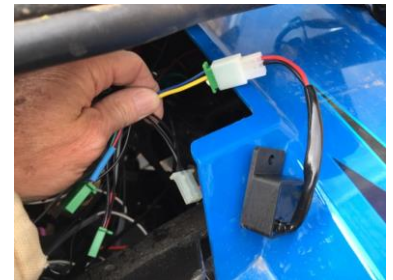
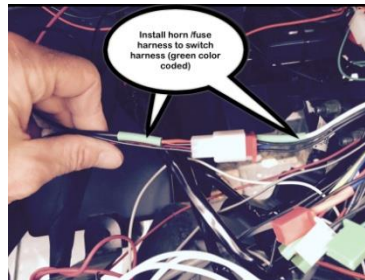
- Route the **TURN SIGNAL/HORN SWITCH** wires through the opening on the steering column.
- Route the wires below the steering column and towards the center of the vehicle.

IMPORTANT: Match the colors of the marking tape on the wires (e.g., red to red, green to green, blue to blue) when you install the components, rather than match the color of the connectors or the wires, unless otherwise directed.

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
- **DASH MOUNTED INDICATOR HARNESS** (3 pin **BLUE** marking).

NOTE: The 2 pin connector with NO color marking labeled "BRAKE INTERFACE HARNESS" is NOT used.



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.

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

6. 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.

- Install the **HORN** in the existing hole on the driver side hood support bracket, using the provided fastener.
- Install the **PLASTIC SPACER** between the horn and the vehicle support bracket.
- 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.





Turn Signal/Horn Kit 9202

7. Install the FRONT TURN SIGNAL HARNESS

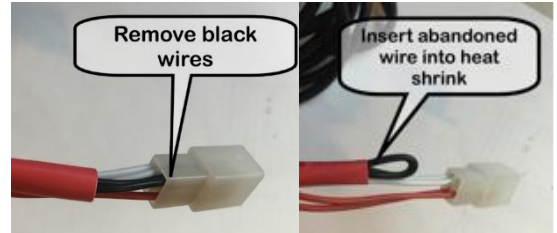
Front Turn Signal Running Lights Feature: The front turn signal LEDs are running lights, and illuminate at 60% intensity when the vehicle ignition is on, and then flash at full intensity when the turn signals are activated.

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.



- Determine the locations of the front LEDs as desired.

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

- Mark the locations using a center punch, ensuring there is adequate room on the back side of the panel prior to drilling.

NOTE: Use of a step drill is recommended.

- Drill three ¾" diameter holes for each set of front turn signal LEDs.
- Connect the **FRONT TURN SIGNAL HARNESS** 4 pin connector to the **TURN SIGNAL/HORN SWITCH** harness, matching the RED marking tape.
- Route the **FRONT TURN SIGNAL HARNESS** triple LEDs to the front corners of the vehicle.



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.

- Slide the rubber flange gaskets that are on the LEDs back onto the wires.
- Slip the LED through the 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.



8. 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.
- Route the **REAR TURN SIGNAL HARNESS** from the front of the vehicle to the rear.

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




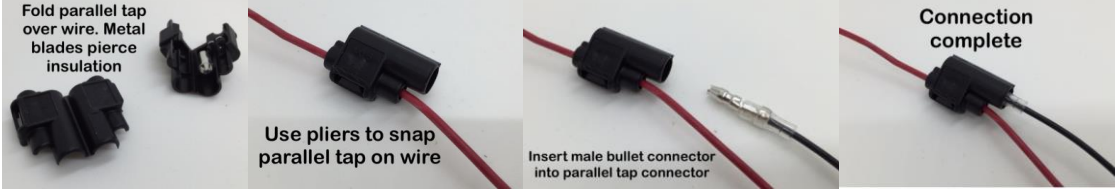
- To position the rear LEDs, remove the push pins and fasteners, and separate the bed from the exterior, to allow access inside the cavity.
- Drill a ¾" diameter hole in the rear of the outboard portion of the taillight bed.

NOTE: Use of a step drill is recommended.





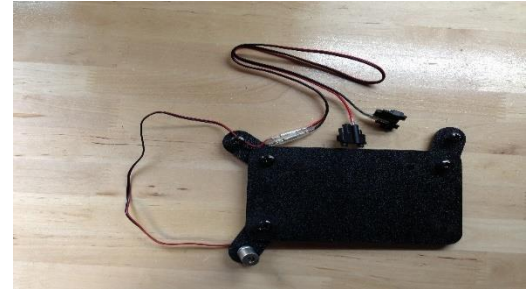
Turn Signal/Horn Kit 9202

	<p>HINT: A little warmth and moisture helps to slip everything together.</p> <ul style="list-style-type: none"> Slip the rubber gasket onto the REAR TURN SIGNAL HARNESS LED wires, with the flange toward the LED as shown. Slip the LED through the 3/4" diameter hole, fold the flange gasket and push it through the hole so the flange portion is inside the taillight housing. Gently pull the LED and seat it in the gasket. Rotate the LEDs within the gasket as necessary to orient them in the same relative position. 
<p>9. Install the DASH MOUNTED INDICATOR HARNESS</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. <p>HINT: A little warmth and moisture help when installing the grommets, and again when installing the LEDs into the grommets.</p> <p>NOTE: Carefully insert the DASH MOUNTED INDICATOR HARNESS LEDs into the grommets to prevent damage to the wires and resistor.</p> <ul style="list-style-type: none"> 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 to the TURN SIGNAL/HORN SWITCH harness, matching the BLUE marking tape.
<p>10. Install the LICENSE PLATE LIGHT and PLATE HOLDER</p>	<ul style="list-style-type: none"> Locate the 3 wires leading to the vehicle taillight/brake light assembly. <p>NOTE: On the PROWLER you will need to remove the access panel, and on the PROWLER HD model, remove the storage compartment just in front of the driver side rear wheel, and expose the three wires.</p>   <p>NOTE: Check the orientation of the PARALLEL TAP connectors, to ensure access for the male connectors prior to seating the terminal with pliers.</p> <ul style="list-style-type: none"> Install a PARALLEL TAP connector on the vehicle taillight/brake light assembly BLACK and WHITE wires. <div data-bbox="326 1640 1511 1892" style="border: 1px solid black; padding: 5px;"> <p>How to Install a PARALLEL TAP: The wire colors may not match your application but are for illustration.</p>  <p>Fold parallel tap over wire. Metal blades pierce insulation</p> <p>Use pliers to snap parallel tap on wire</p> <p>Insert male bullet connector into parallel tap connector</p> <p>Connection complete</p> </div>



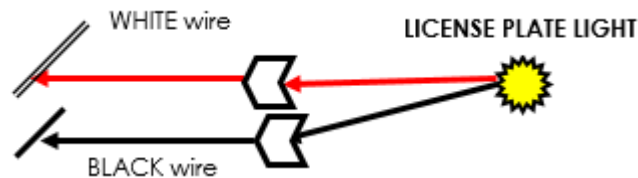
Turn Signal/Horn Kit 9202

- Using the **PLATE HOLDER, TWO HOLE ADAPTERS** and **LICENSE PLATE LIGHT**, assemble as shown.
- On the plastic support rib on the lower left of the body, mark the location for the two **PLATE HOLDER** holes.
- Drill two 1/4" diameter holes.
- Attach the **TWO HOLE ADAPTERS** to the vehicle, using the provided **FLANGE BOLTS** and **LOCK NUTS**.
- Route the **LICENSE PLATE LIGHT EXTENSION** to the area just in front of the driver side rear wheel.
- Connect the **LICENSE PLATE LIGHT EXTENSION RED** wire to the **PARALLEL TAP** on the vehicle taillight/brake light assembly **WHITE** wire.
- Connect the **LICENSE PLATE LIGHT EXTENSION BLACK** wire to the **PARALLEL TAP** on the vehicle taillight/brake light assembly **BLACK** wire.



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.

- Before tightening, orient the **LICENSE PLATE LIGHT** so it shines on the **PLATE HOLDER**.
- Connect the **LICENSE PLATE LIGHT EXTENSION RED** wire into the **LICENSE PLATE LIGHT RED** wire.
- Connect the **LICENSE PLATE LIGHT EXTENSION BLACK** wire into the **LICENSE PLATE LIGHT EXTENSION BLACK** wire.
- Secure the wires with **CABLE TIES**.



11. Connect to the Main Power

- Ensure the ignition key is in the "OFF" position, and the key is removed.
- 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.

WARNING: Damage to the SELF-CANCELING FLASHER RELAY may occur if the wires are installed backwards.

- Install the **SAE ADAPTER** to the vehicle SAE plug located under the dash cover, matching the **SAE ADAPTER RED** male connector to the vehicle **RED/ORANGE** or **WHITE** wires, as applicable.
- Plug the SAE connector located in front of the firewall under the front hood, into the parallel taps on the SAE ADAPTER according to the tag on the SAE ADAPTER

NOTE: There are additional SAE connectors in the engine tunnel area and towards the rear of the vehicle, but you will use the SAE connector located under the front hood near the firewall.





Turn Signal/Horn Kit 9202

	<ul style="list-style-type: none"> Route the RYCO POWER, GROUND & HORN HARNESS from the TURN SIGNAL/HORN SWITCH toward the center of the vehicle. Connect the RYCO POWER, GROUND & HORN HARNESS RED fused wire to the PARALLEL TAP on the SAE ADAPTER RED wire. Connect the RYCO POWER, GROUND & HORN HARNESS BLACK ground wire to the PARALLEL TAP connector on the SAE ADAPTER BLACK wire.
12. Test	<ul style="list-style-type: none"> Double check all the connectors. Turn the ignition key to the "ON" position. Verify that the turn signals, four-way flasher, horn, brake, and license plate light work correctly. Refer to the Troubleshooting Guide at the end of this document.
13. Done	<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. <p>IMPORTANT: Ensure that the wiring and installed hardware do not contact moving components or hot surfaces.</p> <ul style="list-style-type: none"> Bundle any extra cable length and secure with the CABLE TIES. Reinstall the dash, panels and covers.

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	No	✓	No	No	No	<ul style="list-style-type: none"> 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). Refer to Step 11.
Scenario 3	✓	✓	✓	✓	✓	No	<ul style="list-style-type: none"> 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 4	No	No	✓	✓	No	✓	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.
Scenario 5	No	No	✓	No	No	No	
Scenario 6	No	No	No	✓	✓	No	<ul style="list-style-type: none"> Ensure that the RYCO POWER, GROUND & HORN HARNESS BLACK ground wire is connected to a good ground. Refer to Step 11.