
































# Turn Signal/Horn Kit 7202

<p><b>Before you begin</b></p>	<p><b>STOP! THIS KIT IS COMPATIBLE WITH</b></p> <ul style="list-style-type: none"> <li>• Polaris General / 4, all years,</li> <li>• Polaris Ranger 570, including CREW, 2015 and newer,</li> <li>• Polaris Ranger 900, including CREW, all years,</li> <li>• Polaris Ranger 1000, including CREW, all years,</li> <li>• Polaris Ranger, all 2015 and newer models, including CREW,</li> <li>• Polaris Ranger XD 1500, including 6-seat,</li> <li>• Polaris Xpedition, including 5-seat</li> </ul> <p><b>IF THE 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>NOTE:</b> Some models do not include indicators in the instrument cluster; refer to Step 1. Contact Ryco Motorsports or your Ryco Moto dealer for the DASH INDICATORS HARNESS at no charge, if applicable.</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>• 10 mm or 5/16" socket/nut driver or flat blade screwdriver</li> <li>• 9/32" and 1/4" diameter drill bit, 3/4" stepped drill bit</li> <li>• Polaris pliers or flat blade screwdriver</li> <li>• Phillips screwdriver</li> <li>• 10 mm wrench</li> <li>• wire stripper</li> <li>• wire cutter</li> <li>• 10 mm socket</li> <li>• center punch</li> <li>• drill motor</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>					
<p><b>What's in the Box?</b></p>	<p>Let's become familiar with the kit contents.</p> <p><b>NOTE:</b> Not all items will be used in each installation, which varies by vehicle model.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; vertical-align: top;"> <p><b>TURN SIGNAL/HORN SWITCH</b></p>  <p>The connectors interface with the various kit components.</p> </td> <td style="width: 33%; text-align: center; vertical-align: top;"> <p><b>XD/XPEDITION SWITCH BRACKET with FASTENER</b></p>  </td> <td style="width: 33%; text-align: center; vertical-align: top;"> <p><b>SELF-CANCELING FLASHER RELAY</b></p>  <p>- 3 pin connector - No 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>XD/XPEDITION SWITCH BRACKET with FASTENER</b></p> 	<p><b>SELF-CANCELING FLASHER RELAY</b></p>  <p>- 3 pin connector - No marking tape</p>
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<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>CABLE TIE</b></p> 	<p><b>HORN WITH SPACER AND 6X25 FASTENER AND NUT</b></p> 
<p><b>INSTRUMENT CLUSTER INDICATOR HARNESS</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- BLUE marking tape</li> </ul>	<p><b>6-LED 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 – TAILLIGHT CONNECTION (POL7)</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- RED marking tape</li> </ul>
<p><b>REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6)</b></p>  <ul style="list-style-type: none"> <li>- 3 pin connector</li> <li>- RED marking tape</li> </ul>	<p><b>SOLDERLESS CONNECTORS</b></p> 	<p><b>BRAKE STROBE INTERFACE</b></p>  <ul style="list-style-type: none"> <li>- 2 pin connector</li> <li>- No marking tape</li> </ul>
<p><b>BRAKE SWITCH INTERFACE</b></p>  <ul style="list-style-type: none"> <li>- 2 pin connector</li> <li>- No marking tape</li> </ul>	<p><b>PLATE HOLDER</b></p> 	<p><b>FLANGE BOLT and LOCK NUT</b></p> 
<p><b>SELF-TAPPING SCREWS</b></p> 	<p><b>LICENSE PLATE LIGHT</b></p> 	<p><b>PARALLEL TAP</b></p>  <p>NOTE: This photo shows one PARALLEL TAP open, and another PARALLEL TAP folded closed.</p>



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	<p><b>POWER AND GROUND ADAPTER</b></p> 	<p><b>TERMINAL BLOCK 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><b>1. Determine if the Vehicle Has Indicator Lights</b></p>	<p><b>EXPLANATION:</b> The use of turn signal indicators is not required for the installation or operation of this kit.</p> <ul style="list-style-type: none"> <li>o This kit includes an INSTRUMENT CLUSTER INDICATOR HARNESS, which is compatible with the vehicle indicators, if present, on model years 2010 and newer.</li> <li>o Not all models have vehicle indicators. For models without indicators, a Ryco Moto DASH INDICATORS HARNESS, which has two 9/32" LEDs that flash green when the turn signals are activated, is available. Contact your Ryco Moto dealer or Ryco Motorsports if this part is wanted, and it will be provided at no charge.</li> </ul> <p><b>HINT:</b> During the first seconds after turning the ignition to the "on" position, segments of the instrument panel/display will light up briefly, typically including indicator lights, if present. It may be helpful to video record the display during start-up, and then review the video playback if needed.</p> <p><b>EXPLANATION:</b> The Ride Command display is not used for the indicators and does not interface with the Ryco Moto kit.</p> <ul style="list-style-type: none"> <li>• Is the installation on a <b>General</b> model year 2019 or older? <ul style="list-style-type: none"> <li>o If yes, on the General model years 2019 and older, the indicator lights within the instrument cluster are incompatible with the Ryco Moto turn signal kit. The DASH INDICATORS HARNESS can be used on those General models if preferred; see previous EXPLANATION. <b>Then go to Step 2 "Verify Brake Lights"</b>.</li> <li>o If no, installation is not on a General model year 2019 or older, determine whether the vehicle has indicator lights in the instrument cluster/digital display: start-up the vehicle and determine whether the vehicle has indicator lights.</li> </ul> </li> </ul> <div style="display: flex; justify-content: space-around;">    </div> <p>Does the vehicle have indicator lights in the instrument cluster/digital display?</p> <ul style="list-style-type: none"> <li>▪ If yes, the vehicle has indicator lights, then the INSTRUMENT CLUSTER INDICATOR HARNESS can be installed in a later step. Continue to Step 2.</li> <li>▪ If no, the vehicle does not have indicator lights. The DASH INDICATORS HARNESS can be used if preferred; see previous EXPLANATION. Continue to Step 2.</li> </ul>		
<p><b>2. Verify Brake Lights</b></p>	<ul style="list-style-type: none"> <li>• With the engine running, step on the brake pedal, and verify that the brake lights function correctly. <ul style="list-style-type: none"> <li>o If yes, turn off the engine and then continue to Step 3.</li> <li>o If no, troubleshoot the vehicle brake switch/lights until the brake lights function, and then continue to Step 3.</li> </ul> </li> </ul>		



# Turn Signal/Horn Kit 7202

3.

- Gain access for the installation:

**If installing on a(n)...**

**Then...**

Ranger XD  
1500

- Remove the grill and front access cover (hood).
- Remove the center dash HVAC control / switch panel.
- Remove center tunnel access cover.



General

- Remove the front access cover (hood).
- Remove access cover on the **passenger** side tunnel.
- Remove the battery access cover.
- Remove the dash storage compartment.
- Continue to Step 4.



other  
Ranger

- Remove the front access cover (hood).
- Using the Polaris pliers that come with the vehicle, remove the plastic rivets that hold the dash top cover in place.
- Continue to Step 4.

Xpedition

- Remove the grill and front access cover (hood).
- Remove the **driver** side mirror, HVAC vent covers, and the top of the center console.
- Remove all the fasteners and plastic push pins on the dash cover, except the two push pins near the cage posts.



**EXPLANATION:** The dash cover will not be completely removed.

- Remove the **driver** side seat and vehicle battery.
- Remove both headlights.
- Remove both taillights.
- Continue to Step 4.







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## 4. Mount the TURN SIGNAL/HORN SWITCH

**RECOMMENDATION:** 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.

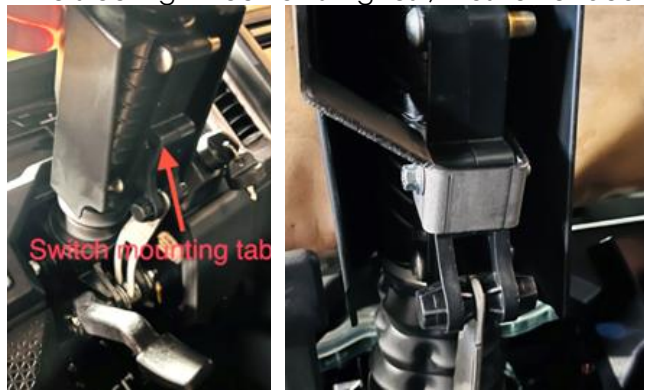
**NOTE:** The TURN SIGNAL/HORN SWITCH should NOT have any components connected to the harness until after the switch is installed, and the switch harness is routed behind the dash.

- Is the vehicle either an **XD 1500** or an **Xpedition** model?
  - If yes, go to Step 5 "Mount the TURN SIGNAL/HORN SWITCH on a Ranger XD 1500 or an Xpedition".
  - If no, go to Step 6 "Mount the TURN SIGNAL/HORN SWITCH on a General or other Ranger".

## 5. Mount the TURN SIGNAL/HORN SWITCH on a Ranger XD 1500 or an Xpedition

**EXPLANATION:** On the Ranger XD 1500 it is necessary to modify the bottom steering column shroud by adding a slot where the shroud would interfere with the XD/XPEDITION SWITCH BRACKET. Watch for directions specific to the XD 1500 installation in the following.

- Remove and discard the mounting bracket from the **TURN SIGNAL/ HORN SWITCH**, retaining the two screws.
- Using the two screws install the **XD/XPEDITION SWITCH BRACKET** on the **TURN SIGNAL/ HORN SWITCH**.
- Using the tilt/telescoping feature, lock the steering wheel to its highest, most extended position.
- If installing on an **XD 1500**, remove the top and bottom steering column shrouds temporarily.
- Install the **TURN SIGNAL/ HORN SWITCH** using the provided 6mm bolt and lock nut.
- Position the "U" shaped portion of the **TURN SIGNAL/ HORN SWITCH** bracket over the mounting tab located on the bottom of the steering column.
- Secure the **TURN SIGNAL/HORN SWITCH** using the provided 6mm bolt and lock nut.
- Push the bracket up and tighten the fastener until there is no movement.
- Route the **TURN SIGNAL/HORN SWITCH** harness on the outboard side of the steering column, and then up under the dash towards the center of the vehicle.
- Secure the harness when the steering wheel is in its highest most extended position.
- If installing on an **XD 1500**, add a slot to the bottom steering column shroud to accommodate where applicable, per the EXPLANATION above, and then reinstall the top and bottom steering column shrouds.
- **Go to Step 7 "Connect the Components to the TURN SIGNAL/HORN SWITCH Harness"**.



XD 1500 modified bottom steering column shroud



# Turn Signal/Horn Kit 7202

6.  
Mount the  
TURN SIGNAL/  
HORN SWITCH  
on a General  
or other  
Ranger



**NOTE:** Do not remove the shoulder bolt.

**NOTE:** Some pressure may need to be put on the bracket to force it over the steering column, and again to align the hole with the shoulder bolt.

- Using the tilt feature, lower the steering wheel to the lowest position.
- Remove the nut on the existing tilt wheel mechanism.
- Push the shoulder bolt so the threaded end is flush with the steering wheel column bracket.
- Slip the U-shaped switch bracket on the **TURN SIGNAL/HORN SWITCH** over the steering column.
- Reinstall the nut on the vehicle shoulder bolt.
- Torque the nut to 10 in-lb.
- Determine how to route the **TURN SIGNAL/HORN SWITCH** harness:

If installing on...	Then...
an Ranger 570,	<ul style="list-style-type: none"> <li>• Route the <b>TURN SIGNAL/HORN SWITCH</b> harness below the steering column and tilt mechanism, securing the <b>TURN SIGNAL/HORN SWITCH</b> harness to the tilt cylinder (using a CABLE TIE?), and then route the <b>TURN SIGNAL/HORN SWITCH</b> harness up under the dash towards the center of the vehicle as shown.</li> <li>• Continue to Step 7.</li> </ul>
another vehicle,	<ul style="list-style-type: none"> <li>• Route the <b>TURN SIGNAL/HORN SWITCH</b> harness below the steering column and above the tilt mechanism, and then up under the dash towards the center of the vehicle.</li> <li>• Continue to Step 7.</li> </ul>



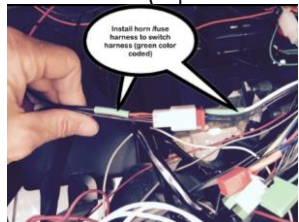
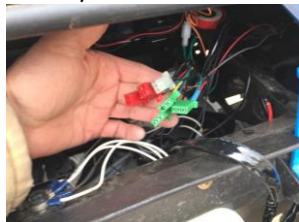
7.  
**Connect the  
Components  
to the TURN  
SIGNAL/HORN  
SWITCH  
Harness**

**IMPORTANT:** When connecting the components match the color of the marking tape by the connectors (e.g., **RED** marking tape to **RED** marking tape, **GREEN** to **GREEN**, **BLUE** to **BLUE**), rather than match the color of the connectors or the wires.

**CAUTION:** When connecting a component harness to the TURN SIGNAL/HORN SWITCH harness, check that the pins are straight, not bent. The connectors should interface very easily; if there is resistance, it is likely due to a bent pin.

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

- **SELF-CANCELING FLASHER RELAY** (3 pin connector with NO marking tape), and
- **RYCO POWER, GROUND & HORN HARNESS** (4 pin **GREEN** marking).





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**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.

**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.

## 8. 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.

- Determine how to install the **HORN**:

If installing on a(n)...	Then...
General	<ul style="list-style-type: none"> <li>Remove the top outboard mounting screw on the coolant overflow tank.</li> <li>Install the <b>HORN</b> using the existing mounting screw.</li> <li>Continue to Step 9.</li> </ul> 
Ranger XD 1500	<ul style="list-style-type: none"> <li>On an existing stud install the <b>HORN</b> using a provided flange nut.</li> <li>Continue to Step 9.</li> </ul> 
other Ranger	<ul style="list-style-type: none"> <li>Secure the <b>HORN</b> to the structural crossmember under the hood on the <b>driver's</b> side, as shown, using the provided fastener, <b>PLASTIC SPACER</b>, and lock nut.</li> <li>Ensure the <b>PLASTIC SPACER</b> is installed between the horn mount and the structural crossmember.</li> <li>Continue to Step 9.</li> </ul> 
Xpedition	<ul style="list-style-type: none"> <li>Using an existing hole, install <b>HORN</b> to bottom panel under hood as shown using the provided fastener, <b>PLASTIC SPACER</b>, and lock nut.</li> <li>Ensure the <b>PLASTIC SPACER</b> is installed between the horn mount and the bottom panel.</li> <li>Continue to Step 9.</li> </ul> 




- 9.
- Route the **RYCO POWER, GROUND & HORN HARNESS**, through the firewall, to the **HORN**.
  - Install the two flat spade connectors to the **HORN** terminals.

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





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<p><b>10.</b> Install the Indicator Harness</p>	<p><b>REMINDER:</b> An indicator harness installation is not required for the installation or operation of this kit.</p> <ul style="list-style-type: none"> <li>Determine the indicator harness installation based on the results from Step 1:</li> </ul> <table border="1"> <thead> <tr> <th data-bbox="326 302 488 401">If installing on a(n)...</th> <th data-bbox="488 302 631 401">And the model year is...</th> <th data-bbox="631 302 1065 401">And during start-up the vehicle...</th> <th data-bbox="1065 302 1373 401">Then use the...</th> <th data-bbox="1373 302 1511 401">And go to...</th> </tr> </thead> <tbody> <tr> <td data-bbox="326 401 488 569" rowspan="2">General,</td> <td data-bbox="488 401 631 499">2020 or newer,</td> <td data-bbox="631 401 1065 464">Indicator lights illuminate,</td> <td data-bbox="1065 401 1373 464"><b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b></td> <td data-bbox="1373 401 1511 464">Step 13.</td> </tr> <tr> <td data-bbox="488 499 631 569">2019 or older,</td> <td data-bbox="631 464 1065 569">Does NOT have indicator lights, Indicator lights illuminate, or does not have indicator lights,</td> <td data-bbox="1065 464 1373 569"><b>DASH INDICATORS HARNESS,</b></td> <td data-bbox="1373 464 1511 569">Step 15.</td> </tr> <tr> <td data-bbox="326 569 488 632">Ranger XD 1500</td> <td data-bbox="488 569 631 632">Any,</td> <td data-bbox="631 569 1065 632">Indicator lights illuminate,</td> <td data-bbox="1065 569 1373 632"><b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b></td> <td data-bbox="1373 569 1511 632">Step 11.</td> </tr> <tr> <td data-bbox="326 632 488 1192" rowspan="4">other Ranger,</td> <td data-bbox="488 632 631 1058" rowspan="2">2018,</td> <td data-bbox="631 632 1065 995">Indicator lights illuminate,</td> <td data-bbox="1065 632 1373 995"><b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b></td> <td data-bbox="1373 632 1511 995">Step 13.</td> </tr> <tr> <td data-bbox="631 995 1065 1058">Does NOT have indicator lights,</td> <td data-bbox="1065 995 1373 1058"><b>DASH INDICATORS HARNESS,</b></td> <td data-bbox="1373 995 1511 1058">Step 15.</td> </tr> <tr> <td data-bbox="488 1058 631 1129" rowspan="2">Not 2018,</td> <td data-bbox="631 1058 1065 1129">Indicator lights illuminate,</td> <td data-bbox="1065 1058 1373 1129"><b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b></td> <td data-bbox="1373 1058 1511 1129">Step 13.</td> </tr> <tr> <td data-bbox="631 1129 1065 1192">Does NOT have indicator lights,</td> <td data-bbox="1065 1129 1373 1192"><b>DASH INDICATORS HARNESS,</b></td> <td data-bbox="1373 1129 1511 1192">Step 15.</td> </tr> <tr> <td data-bbox="326 1192 488 1262">Xpedition,</td> <td data-bbox="488 1192 631 1262">Any,</td> <td data-bbox="631 1192 1065 1262">Indicator lights illuminate,</td> <td data-bbox="1065 1192 1373 1262"><b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b></td> <td data-bbox="1373 1192 1511 1262">Step 12.</td> </tr> </tbody> </table> <p><b>EXPLANATION:</b> On some 2018 Ranger models, Polaris used the same instrument cluster that is used on the General. The indicator lights within this instrument cluster are incompatible with the Ryco Moto turn signal kit. Proceed with installing the INSTRUMENT CLUSTER INDICATOR HARNESS. If after installation and troubleshooting the instrument indicator lights do not function correctly when the engine is running, the INSTRUMENT CLUSTER INDICATOR HARNESS can be abandoned in place, and the DASH INDICATORS HARNESS can be used if preferred; see Step 15.</p>	If installing on a(n)...	And the model year is...	And during start-up the vehicle...	Then use the...	And go to...	General,	2020 or newer,	Indicator lights illuminate,	<b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b>	Step 13.	2019 or older,	Does NOT have indicator lights, Indicator lights illuminate, or does not have indicator lights,	<b>DASH INDICATORS HARNESS,</b>	Step 15.	Ranger XD 1500	Any,	Indicator lights illuminate,	<b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b>	Step 11.	other Ranger,	2018,	Indicator lights illuminate,	<b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b>	Step 13.	Does NOT have indicator lights,	<b>DASH INDICATORS HARNESS,</b>	Step 15.	Not 2018,	Indicator lights illuminate,	<b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b>	Step 13.	Does NOT have indicator lights,	<b>DASH INDICATORS HARNESS,</b>	Step 15.	Xpedition,	Any,	Indicator lights illuminate,	<b>INSTRUMENT CLUSTER INDICATOR HARNESS,</b>	Step 12.
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<p><b>11.</b> Install the INSTRUMENT CLUSTER INDICATOR HARNESS on a Ranger XD 1500</p>	<ul style="list-style-type: none"> <li>Use a plastic panel removal tool to remove the face on instrument cluster.</li> <li>Remove the plastic push pins and tilt the cluster forward to expose the multipin connector on the rear of the instrument cluster.</li> <li>Continue to Step 12 "Install the INSTRUMENT CLUSTER INDICATOR HARNESS on an Xpedition".</li> </ul> 																																							
<p><b>12.</b> Install the INSTRUMENT CLUSTER INDICATOR HARNESS on an Xpedition</p>	<p><b>NOTE:</b> The dash cover will not be completely removed.</p> <ul style="list-style-type: none"> <li>Lift the dash cover enough to access the multipin connector, and then clip the zip tie to release the instrument cluster cable.</li> <li>Continue to Step 13 "Install the INSTRUMENT CLUSTER INDICATOR HARNESS".</li> </ul>  																																							



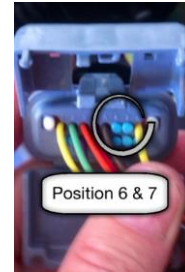


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## 13. Install the INSTRUMENT CLUSTER INDICATOR HARNESS

**REMINDER:** Install the **INSTRUMENT CLUSTER INDICATOR HARNESS** if the vehicle is tested to have indicator lights. Refer to Step 1.

**EXPLANATION:** On some vehicle models the vehicle indicators may not be compatible with the INSTRUMENT CLUSTER INDICATOR HARNESS as provided. Ryco Motorsports recommends first installing the INSTRUMENT CLUSTER INDICATOR HARNESS; if during testing at the end of the kit install there are no working indicator lights, then follow the additional steps in the Troubleshooting Guide at the end of these instructions.



- Disconnect the multi-pin connector from the back of the interactive digital display or the speedometer assembly (depending on the vehicle) by depressing the single locking tap on the connector, and pulling the connector away from the mating part.

**CAUTION:** Do not use a metal object to remove the plastic plug covering positions 6 and 7.

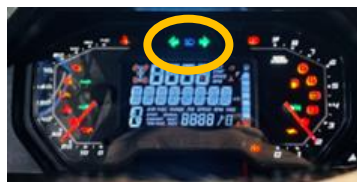
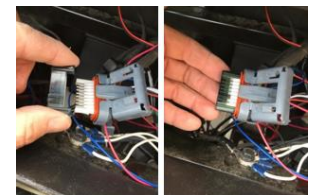
**HINT:** Using a fingernail can easily remove the plastic plug.

- Open the connector cover, and then remove and discard the plastic plugs in positions 6 and 7.
- **This is IMPORTANT!** That's why it's underlined. Remove the clear pin cover on the front side of the connector by depressing the tabs on the sides of the connector.
- Install the **INSTRUMENT CLUSTER INDICATOR HARNESS RED** pin/wire in position 6.
- Install the **INSTRUMENT CLUSTER INDICATOR HARNESS GREEN** harness pin/wire in position 7.

**IMPORTANT:** The pins must be seated completely.

**This is IMPORTANT!** That's why it's underlined:

- Verify that the new pins match the installation depth of the existing pins.
- Reinstall the clear pin cover.
- Route the new wire adjacent to the existing wires.
- Close the back cover.
- Connect the **INSTRUMENT CLUSTER INDICATOR HARNESS** (3 pin **BLUE** marking) to the **TURN SIGNAL/HORN SWITCH** harness.
- Reinstall the connector to the interactive digital display or the speedometer assembly.



- **Go to Step 15 "Install the 6-LED FRONT TURN SIGNAL HARNESS".**

**EXPLANATION:** The standard instrument cluster turn signal indicator double arrow flashes regardless of the direction of the switch.



# Turn Signal/Horn Kit 7202

## 14. Install the DASH INDICATORS HARNESS

**NOTE:** The DASH INDICATORS HARNESS is NOT included in this kit and is not required for the installation or operation of the kit. Contact your Ryco Moto dealer or Ryco Motorsports if this part is wanted, and it will be provided at no charge. The DASH INDICATORS HARNESS has two 9/32" LEDs that flash green when the turn signals are activated.



**NOTE:** Carefully insert the lights into the grommets to prevent damage to the wires and resistor.

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

- Mark the desired locations in the dash for the two **DASH INDICATORS HARNESS** 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 lights into the grommets from the rear, until the light is flush or slightly protruding.
- Connect the **DASH INDICATORS HARNESS** (3 pin **BLUE** marking) to the **TURN SIGNAL/HORN SWITCH** harness.
- Continue to Step 15.

## 15. Install the 6-LED FRONT TURN SIGNAL HARNESS

**NOTE:** If installing the RYCO MOTO 7001 or 7002 SIGNAL HEADLIGHTS instead of the 6-LED FRONT TURN SIGNAL HARNESS, refer to the applicable instructions by scanning this QR code, or email RycoMoto@gmail.com and specify the part number to have the instructions emailed or mailed.

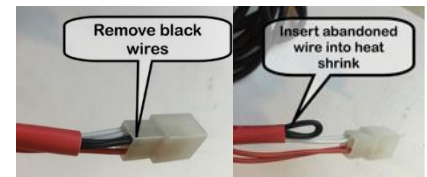


**Front Running Lights Feature:** The front turn signal lights are running lights, and illuminate at 60% intensity when the vehicle ignition is on, and then flash at full intensity when the turn signals are activated.

How to disable the running light feature, if preferred:

- On the 6-LED 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.

- Is the vehicle an **Xpedition** model?
  - If yes, go to Step 16.
  - If no, go to Step 17.



# Turn Signal/Horn Kit 7202

**16.**  
Install the 6-LED FRONT TURN SIGNAL HARNESS on an Xpedition

**EXPLANATION:** The headlights must be removed to allow access to easily install the 6-LED FRONT TURN SIGNAL HARNESS.

- Remove the push pins and fasteners on the inner side of the front fenders to allow access to the area of each headlight for drilling the 3/4" diameter holes for each front turn signal light.
- Prop up the front access cover (hood).
- Remove the three fasteners and springs holding the headlight, and then remove the headlight, repeating for each headlight.
- Continue to Step 17.



**17.**

- Determine the locations of the front lights as desired.
- Mark the locations using a center punch.

**HINT:** On the Ranger and General models, 1 1/4"-1 1/2" 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.



General



Ranger



Alternate 6-LED Front Turn Signal Light Placement Examples

**HINT:** On the Xpedition 1" down from the horizontal edge, and 1 3/8" spacing between the holes is recommended.



Xpedition

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

**NOTE:** Generals, Xpeditions, and some Ranger models have a grommet through the firewall at the center of the vehicle. On other Ranger models, drill a 3/4" hole in the firewall on the driver side to provide access.





# Turn Signal/Horn Kit 7202

- Drill a 3/4" diameter hole for each front turn signal light.
- From the front side of the firewall, route the **6-LED FRONT TURN SIGNAL HARNESS** 4 pin connector and cables through the firewall to the **TURN SIGNAL/HORN SWITCH** harness.
- Connect the **6-LED FRONT TURN SIGNAL HARNESS** (4 pin **RED** marking) to the **TURN SIGNAL/HORN SWITCH** harness.

**NOTE:** The FRONT TURN SIGNAL HARNESS is labeled for the driver side and for the passenger side.

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

- Route the **6-LED FRONT TURN SIGNAL HARNESS** lights to the front corners of the vehicle.
- Slide the rubber flange gaskets on each light back onto the wire.
- Slip each light through the applicable drilled hole, fold each flange gasket, and then push the gasket through its respective hole.
- Install each flange gasket into its hole, with the flange of the gasket towards the front of the vehicle.
- Seat each light into its flange gasket with a gentle pulling and rocking motion.
- Rotate each light within its gasket to orient the lights in the same relative position.
- If installing on an Xpedition, reinstall the headlights, tightening the three fasteners back to factory condition, snug against the stops.
- Continue to Step 18.



## 18. Install the REAR TURN SIGNAL HARNESS

**EXPLANATION:** Two REAR TURN SIGNAL HARNESSES are provided in the kit but only one harness will be used for any installation. The following steps and questions determine which harness to use based on the vehicle, and advise how to install the applicable harness. There are 5 possible installations, depending on the vehicle model and vehicle connector types.

- On which vehicle model is the kit being installed?

If installing on a(n)...	Then the REAR TURN SIGNAL HARNESS to use will be...	So go to...
General,	the REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6),	Step 21.
Ranger 570,	the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7),	Step 23.
Ranger XD 1500,	the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7),	Step 20.
Xpedition,	the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7),	Step 20.
other Ranger,	determined in the subsequent steps,	Step 19.





# Turn Signal/Horn Kit 7202

**19.**  
Install the REAR TURN SIGNAL HARNESS – Determine Taillight Connector

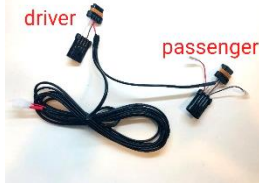


- Remove the two fasteners securing the taillight assembly on the **driver** side, and then determine if the vehicle taillight harness connects to the taillight with a 4 pin connector.

**EXPLANATION:** The 4 pin connector will have only 3 wires with one open position.

- Does the vehicle taillight harness connect to the taillight with a 4 pin connector?
  - If yes, go to Step 20 "Install the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7)".
  - If no, the taillight harness connects to the taillight with a 3 pin connector, reinstall the taillight, and then go to Step 21 "Install the REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6) – Determine Rear Connector".

**20.**  
Install the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7)




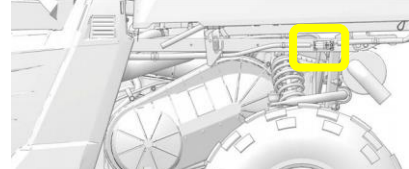

**EXPLANATION:** Use the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7).

- On the driver side of the vehicle remove the two fasteners securing the taillight assembly, unplug the existing taillight harness at the taillight connector, and then plug in the **REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7)** connector marked "Drivers side".
- Plug the vehicle harness connector into the mating connector on the **REAR TURN SIGNAL HARNESS**.
- If installing on an **Xpedition**, remove the end row of fasteners holding the main engine heat shield, loosen the second row of fasteners, and then temporarily remove the tailgate drip edge.
- Route the short leg of the **REAR TURN SIGNAL HARNESS** to the **passenger** side rear taillight.
- On the **passenger** side of the vehicle unplug the existing taillight harness at the taillight connector and then plug the **REAR TURN SIGNAL HARNESS** connector marked "Passenger side" with the license plate light power and ground pigtail into the taillight connector.
- Plug the vehicle harness connector into the mating connector on the **REAR TURN SIGNAL HARNESS**.
- On which vehicle model is the kit being installed, a Ranger or an Xpedition?
  - If installing on a **Ranger**, remove the center tunnel access panel on the passenger side, and remove the battery cover.
  - Otherwise, if installing on an **Xpedition**, reinstall the tailgate drip edge and end row of fasteners, except the heat shield end fastener nearest the passenger side taillight, and tighten the other heat shield fasteners.

**HINT:** The use of a fish tape to route the REAR TURN SIGNAL HARNESS to the front of the vehicle is recommended. A fish tape can be made with solid core uninsulated wire, approximately twice the length of the vehicle: fold the wire in half, secure the center to a vise, secure the two ends in the chuck of a drill motor, and then slowly wind the wire around itself.



# Turn Signal/Horn Kit 7202

	<p><b>NOTE:</b> Ensure the wiring does not contact moving components or hot surfaces.</p> <p><b>EXPLANATION:</b> Only two pins of the REAR TURN SIGNAL HARNESS 3 pin connector are used.</p> <ul style="list-style-type: none"> <li>Route the long leg of the <b>REAR TURN SIGNAL HARNESS</b> cable alongside the existing wires, where practical, to the rear firewall of the vehicle, and then to the front of the vehicle.</li> <li>On which vehicle model is the kit being installed, a Ranger or an Xpedition? <ul style="list-style-type: none"> <li>If installing on a <b>Ranger</b>, from the front side of the front firewall, route the <b>REAR TURN SIGNAL HARNESS</b> through a grommet in the firewall into the cab under the dash.</li> <li>Otherwise, if installing on an <b>Xpedition</b>, from the front side of the front firewall, route the <b>REAR TURN SIGNAL HARNESS</b> upwards through a grommet into the area under the hood, and then through a grommet in the firewall into the cab under the dash.</li> </ul> </li> <li>Connect the <b>REAR TURN SIGNAL HARNESS</b> (3 pin <b>RED</b> marking) to the <b>TURN SIGNAL/HORN SWITCH</b> harness.</li> <li><b>Go to Step 26 "Install the BRAKE INTERFACE"</b>.</li> </ul>
<p><b>21.</b> Install the REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6) – Determine Rear Connector</p>	<p><b>EXPLANATION:</b> Use the REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6).</p>  <ul style="list-style-type: none"> <li>From the front side of the firewall, route the <b>REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6)</b> 3 pin connector through the grommet in the firewall.</li> <li>Connect the <b>REAR TURN SIGNAL HARNESS</b> (3 pin <b>RED</b> marking) to the <b>TURN SIGNAL/HORN SWITCH</b> harness.</li> <li>Remove the center tunnel access panel on the <b>passenger</b> side, battery cover, and seats, and route the <b>REAR TURN SIGNAL HARNESS</b> cable, alongside existing wires where practical, to the rear of the vehicle.</li> <li>Lift the dump bed to provide access.</li> <li>Locate the connector on the <b>driver</b> side near the dump bed hinge.</li> <li>Is it a <b>4 pin connector</b>? <ul style="list-style-type: none"> <li>If yes, go to Step 22 "Install the REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6) on a 4 Pin Connector".</li> <li>If no (i.e., it's a 3 pin connector), go to Step 23 "Modify and Then Install the REAR TURN SIGNAL HARNESS".</li> </ul> </li> </ul> 
<p><b>22.</b> Install the REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6) on a 4 Pin Connector</p>	<ul style="list-style-type: none"> <li>Unplug the vehicle 4 pin connectors.</li> <li>Connect the <b>REAR TURN SIGNAL HARNESS</b> 4 pin connectors to the vehicle 4 pin connectors.</li> <li><b>Go to Step 26 "Install the BRAKE INTERFACE"</b>.</li> </ul> 



# Turn Signal/Horn Kit 7202

**23.**  
Modify and  
Then Install  
the REAR  
TURN SIGNAL  
HARNESS

**EXPLANATION:** The REAR TURN SIGNAL HARNESS will be modified to fit the vehicle model.  
**IMPORTANT:** The vehicle **ORANGE** wires **MUST** be cut, and connected to the applicable **RED**, **BLACK** or **WHITE** wires on the REAR TURN SIGNAL HARNESS. If the wires are spliced, rather than cut, the lights will not function properly.

**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.



- Is the vehicle a **Ranger 570** model?
  - If yes, go to Step 24 "Install the Modified REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7) on a Ranger 570".
  - If no, go to Step 25 "Install the REAR TURN SIGNAL HARNESS - REAR CONNECTION (POL6) without a 4 Pin Connector".

**24.**  
Install the  
Modified  
REAR TURN  
SIGNAL  
HARNESS –  
TAILLIGHT  
CONNECTION  
(POL7) on a  
Ranger 570

**EXPLANATION:** Use the REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7).

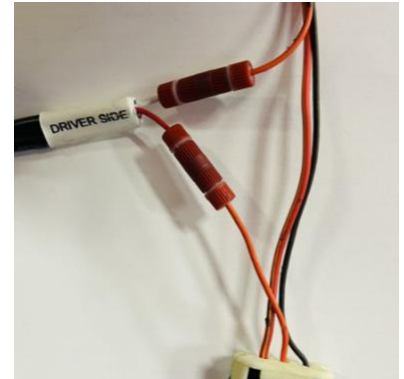
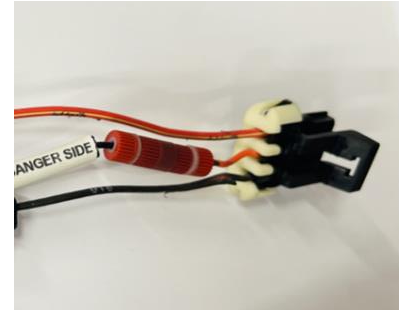


- On the **REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7)** end labeled "**driver** side" cut the **RED** wire off where it connects to the male connector, and cut the **WHITE** wire where it connects to the female connector, removing the connectors from the harness.
- Remove 1/8" - 3/16" of insulation from the newly cut **RED** wire and **WHITE** wire on the **REAR TURN SIGNAL HARNESS**.
- On the **REAR TURN SIGNAL HARNESS** end labeled "**passenger** side" cut the short leg **BLACK** wire at the male 4 pin connector, removing the connectors from the harness.
- Remove 1/8" - 3/16" of insulation from the newly cut end of the short leg **BLACK** wire of the **REAR TURN SIGNAL HARNESS**.
- At the vehicle **driver** side remove the two fasteners securing the taillight assembly, unplug the taillight harness at the taillight connector, and then cut the center position **ORANGE** wire approximately 3 inches from the taillight connector.
- Remove 1/8" - 3/16" of insulation from both newly cut ends of the **ORANGE** wire.
- At the vehicle **passenger** side remove the two fasteners securing the taillight assembly, unplug the taillight harness at the taillight connector, and then cut the center position **ORANGE** wire approximately 3" from the taillight connector.
- Remove 1/8" - 3/16" of insulation from the 3" newly cut end of the **ORANGE** wire in the connector.
- Abandon the other cut end of the **ORANGE** wire **COMING FROM THE FRONT OF THE VEHICLE**, and tuck the end back into the factory wire harness sleeve and/or tape over with electrical tape.



# Turn Signal/Horn Kit 7202

- Starting at the **driver** side taillight, route the short leg of the **REAR TURN SIGNAL HARNESS** to the **passenger** side rear taillight.
- Connect the **REAR TURN SIGNAL HARNESS** to the vehicle taillight **ORANGE** wires, as follows:
  - On the **passenger** side taillight attach the **REAR TURN SIGNAL HARNESS** BLACK wire to the taillight center position **ORANGE** wire in the connector, using the **SOLDERLESS CONNECTOR**, referring to "How to Use the SOLDERLESS CONNECTORS" in Step 23 as needed.
  - On the **driver** side taillight attach the **REAR TURN SIGNAL HARNESS** RED wire to the taillight **ORANGE** wire in the connector, using the **SOLDERLESS CONNECTOR**.
  - Also at the **driver** side taillight attach the **REAR TURN SIGNAL HARNESS** WHITE wire to the taillight **ORANGE** wire COMING FROM THE FRONT OF THE VEHICLE, using the **SOLDERLESS CONNECTOR**.



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

- Route the long leg of the **REAR TURN SIGNAL HARNESS** cable alongside the existing wires, where practical, to the rear firewall of the vehicle, and then to the front of the vehicle, into the cab under the dash.
- Connect the **REAR TURN SIGNAL HARNESS** (3 pin **RED** marking) to the **TURN SIGNAL/HORN SWITCH** harness.

**EXPLANATION:** Only two pins of the REAR TURN SIGNAL HARNESS 3 pin connector are used.

- **Go to Step 26 "Install the BRAKE INTERFACE".**

**25.**  
Install the REAR TURN SIGNAL HARNESS - REAR CONNECTION (POL6) without a 4 Pin Connector



**EXPLANATION:** Neither the taillight connectors nor the **driver** side connector by the dump bed hinge will be used for this installation.

- Return the dump bed to the normal down and locked position.
- Prepare the **REAR TURN SIGNAL HARNESS – REAR CONNECTION (POL6)** by removing and discarding the 4 pin connectors by cutting the **RED** wire, **BLACK** wire, and **WHITE** wires.
- Remove 1/8"- 3/16" of insulation from the **RED** wire, **BLACK** wire, and **WHITE** wire on the **REAR TURN SIGNAL HARNESS**.
- Remove the floorboard access panel and seats.
- Route the **REAR TURN SIGNAL HARNESS** cable to the rear of the vehicle.
- Locate the vehicle rear taillight wire harness at the extreme rear of the vehicle under the dump bed (i.e. center tee position).







# Turn Signal/Horn Kit 7202

- At the point where the vehicle rear taillight wire harness splits into the two taillights, expose the two **ORANGE** wires.
- Cut the two **ORANGE** wires approximately 2-3" on the taillight side of the tee.
- Remove 1/8- 3/16" of insulation from the ends of two **ORANGE** wires GOING TO THE TAILLIGHTS and the one **ORANGE** wire COMING FROM FRONT OF VEHICLE.
- Connect the **REAR TURN SIGNAL HARNESS** to the vehicle taillight **ORANGE** wires, as follows:
  - Attach the **REAR TURN SIGNAL HARNESS** BLACK wire to the **passenger** side taillight **ORANGE** wire, using the **SOLDERLESS CONNECTOR**.
  - Attach the **REAR TURN SIGNAL HARNESS** RED wire to the **driver** side taillight **ORANGE** wire, using the **SOLDERLESS CONNECTOR**.
  - Abandon the cut vehicle **ORANGE** wires COMING FROM THE FRONT OF THE VEHICLE, and tuck the end back into the factory wire harness sleeve and/or tape over with electrical tape.
  - To the other cut vehicle **ORANGE** wire COMING FROM THE FRONT OF THE VEHICLE attach the **REAR TURN SIGNAL HARNESS** WHITE wire, using the **SOLDERLESS CONNECTOR**.
- Continue to Step 26 "Install the BRAKE INTERFACE".



## 26. Install the BRAKE INTERFACE

**EXPLANATION:** Two BRAKE INTERFACES are provided in this kit; only one BRAKE INTERFACE is used per installation.

Part	Description
 <p><b>BRAKE STROBE INTERFACE</b></p>	<p>For increased visibility the BRAKE STROBE INTERFACE adds a strobe feature to the brake lights, so that 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><b>NOTE:</b> The strobe feature is incompatible with the XD 1500 models.</p>
 <p><b>BRAKE SWITCH INTERFACE</b></p>	<p>The BRAKE SWITCH INTERFACE completes the brake light circuit and the brake lights function as before.</p>

**EXPLANATION:** The brake applied signal is picked up from the rear harness at the taillight connector.

- Is the vehicle an **XD 1500** model?
  - If yes, use the **BRAKE SWITCH INTERFACE** in the following installation.
  - If no, use either the **BRAKE STROBE INTERFACE** or **BRAKE SWITCH INTERFACE** in the following installation, according to preference, referring to the descriptions above.
- Connect the **BRAKE INTERFACE** (2 pin with NO marking) to the only 2 pin connector on the **TURN SIGNAL/HORN SWITCH** harness.
- Route the **BRAKE INTERFACE** wire to the female bullet connector on the **REAR TURN SIGNAL HARNESS** where the **REAR TURN SIGNAL HARNESS** connects to the **TURN SIGNAL/HORN SWITCH** harness.











# Turn Signal/Horn Kit 7202

	<ul style="list-style-type: none"> <li>• Plug the <b>BRAKE INTERFACE</b> male bullet connector on the <b>RED</b> wire into the female bullet connector on the <b>WHITE</b> wire on the <b>REAR TURN SIGNAL HARNESS</b>.</li> <li>• Continue to Step 27.</li> </ul> <div data-bbox="810 205 1172 443" data-label="Image"></div> <div data-bbox="1203 205 1502 443" data-label="Image"></div> <p data-bbox="857 445 1463 474">Photo shows BRAKE STROBE INTERFACE for illustration</p>
<p><b>27.</b> <b>Install the PLATE HOLDER</b></p>	<p><b>IMPORTANT:</b> Use the flange nut provided with the LICENSE PLATE LIGHT. 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.</p> <ul style="list-style-type: none"> <li>• Install the <b>LICENSE PLATE LIGHT</b> in the single center top hole of the <b>PLATE HOLDER</b>, so that the light will shine down on the license plate.</li> <li>• Is the vehicle an <b>Xpedition</b> model? <ul style="list-style-type: none"> <li>◦ If yes, go to Step 28 "Install the PLATE HOLDER on an Xpedition".</li> <li>◦ If no, go to Step 29 "Install the PLATE HOLDER on a General or Ranger".</li> </ul> </li> </ul>
<p><b>28.</b> Install the PLATE HOLDER on an Xpedition</p>	<ul style="list-style-type: none"> <li>• Install the <b>PLATE HOLDER</b> using the heat shield end fastener nearest the passenger side taillight, in the outboard hole of the <b>PLATE HOLDER</b>.</li> <li>• Mark the location of the second (inboard) mounting hole.</li> <li>• Drill a pilot hole in the heat shield and metal tube under the bed.</li> <li>• Using the <b>SELF-TAPPING SCREW</b> provided, secure the <b>PLATE HOLDER</b> to the frame of the vehicle.</li> <li>• Mount the license plate (when available) using the provided <b>FLANGE BOLTS</b> and <b>LOCK NUTS</b>.</li> <li>• <b>Go to Step 30 "Connect the LICENSE PLATE LIGHT"</b>.</li> </ul>
<p><b>29.</b> Install the PLATE HOLDER on a General or Ranger</p>	<p><b>NOTE:</b> Prior to drilling the mounting holes, verify that the license PLATE HOLDER clears the supports, etc., with the bed in the travel, dump, and extended dump position (i.e., dump cylinder pin removed).</p> <ul style="list-style-type: none"> <li>• Using the <b>PLATE HOLDER</b> as a guide, mark the location of the two mounting holes.</li> <li>• Drill two pilot holes in the metal tube under the bed to mount the <b>PLATE HOLDER</b>.</li> <li>• Using the <b>SELF-TAPPING SCREWS</b> provided, secure the <b>PLATE HOLDER</b> to the frame of the vehicle.</li> <li>• Mount the license plate (when available) using the provided <b>FLANGE BOLTS</b> and <b>LOCK NUTS</b>.</li> <li>• Continue to Step 30 "Connect the LICENSE PLATE LIGHT".</li> </ul> <div data-bbox="810 1157 1159 1396" data-label="Image"></div> <div data-bbox="1187 1157 1502 1396" data-label="Image"></div>




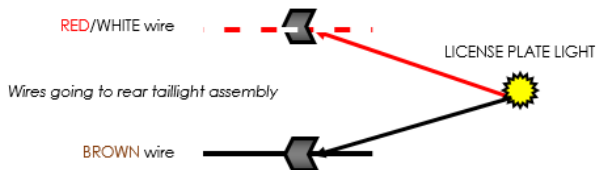
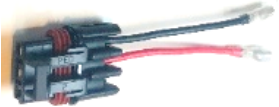


# Turn Signal/Horn Kit 7202

<p><b>30.</b> Connect the LICENSE PLATE LIGHT</p>	<ul style="list-style-type: none"> <li>Determine how to connect the <b>LICENSE PLATE LIGHT</b> based on the REAR TURN SIGNAL HARNESS used:</li> </ul> <table border="1" data-bbox="324 252 1510 703"> <thead> <tr> <th>If the installation used the...</th> <th>And the vehicle is...</th> <th>Go to...</th> </tr> </thead> <tbody> <tr> <td rowspan="4"> <b>REAR TURN SIGNAL HARNESS– TAILLIGHT CONNECTOR (POL7),</b>   </td> <td>A Ranger 570,</td> <td>Step 32.</td> </tr> <tr> <td>A Ranger XD 1500,</td> <td rowspan="3">Step 33.</td> </tr> <tr> <td>A Ranger XP 1000,</td> </tr> <tr> <td>An Xpedition,</td> </tr> <tr> <td rowspan="3"> <b>REAR TURN SIGNAL HARNESS– REAR CONNECTOR (POL6),</b>   </td> <td>A General,</td> <td>Step 34.</td> </tr> <tr> <td>A Ranger 1000,</td> <td rowspan="2">Step 35.</td> </tr> <tr> <td>Another Ranger,</td> </tr> </tbody> </table>	If the installation used the...	And the vehicle is...	Go to...	<b>REAR TURN SIGNAL HARNESS– TAILLIGHT CONNECTOR (POL7),</b> 	A Ranger 570,	Step 32.	A Ranger XD 1500,	Step 33.	A Ranger XP 1000,	An Xpedition,	<b>REAR TURN SIGNAL HARNESS– REAR CONNECTOR (POL6),</b> 	A General,	Step 34.	A Ranger 1000,	Step 35.	Another Ranger,
If the installation used the...	And the vehicle is...	Go to...															
<b>REAR TURN SIGNAL HARNESS– TAILLIGHT CONNECTOR (POL7),</b> 	A Ranger 570,	Step 32.															
	A Ranger XD 1500,	Step 33.															
	A Ranger XP 1000,																
	An Xpedition,																
<b>REAR TURN SIGNAL HARNESS– REAR CONNECTOR (POL6),</b> 	A General,	Step 34.															
	A Ranger 1000,	Step 35.															
	Another Ranger,																
<p><b>31.</b> How to install a PARALLEL TAP</p>	<p><b>How to install a PARALLEL TAP:</b> The wire colors may not match this use but are for illustration.</p> <p><b>NOTE:</b> Check the orientation of the PARALLEL TAP connectors to ensure access for the male connector, prior to seating the PARALLEL TAP connector with pliers. Unplug the connector to allow easier access.</p> 																
<p><b>32.</b> Install the LICENSE PLATE LIGHT on a Ranger 570</p>	<ul style="list-style-type: none"> <li>At the rear taillight (either side) locate the <b>ORANGE/WHITE</b> (12 volt DC) and <b>BLACK</b> (ground) wires leading to the vehicle rear taillight assembly.</li> <li>Push the sleeve back to expose the <b>ORANGE/WHITE</b> wire and <b>BLACK</b> wire for approximately 3 to 4 inches.</li> <li>Install a <b>PARALLEL TAP</b> connector on the <b>ORANGE/WHITE</b> wire and <b>BLACK</b> wires, referring to “How to install a PARALLEL TAP” in Step 31 as needed.</li> </ul> <p><b>NOTE:</b> 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"> <li>Route the <b>LICENSE PLATE LIGHT</b> wires to the <b>PARALLEL TAPS</b> installed on the <b>ORANGE/WHITE</b> wire and <b>BLACK</b> wires:             <ul style="list-style-type: none"> <li>Connect the <b>LICENSE PLATE LIGHT RED</b> wire to the <b>ORANGE/WHITE</b> wire.</li> <li>Connect the <b>LICENSE PLATE LIGHT BLACK</b> wire to the <b>BLACK</b> wire.</li> </ul> </li> <li><b>Go to Step 36 “Connect to the Main Power”.</b></li> </ul> 																






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<p><b>33.</b> Install the LICENSE PLATE LIGHT on REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION (POL7)</p>	<ul style="list-style-type: none"> <li>At the <b>REAR TURN SIGNAL HARNESS – TAILLIGHT CONNECTION</b> connector on the <b>passenger</b> side of the vehicle locate the short <b>RED</b> and <b>BLACK</b> wires with female bullet connectors.</li> <li>Route the <b>LICENSE PLATE LIGHT</b> wires to the <b>REAR TURN SIGNAL HARNESS</b> 4 pin connector red red and black wires: <ul style="list-style-type: none"> <li>Connect the <b>LICENSE PLATE LIGHT RED</b> wire to the <b>RED</b> wire.</li> <li>Connect the <b>LICENSE PLATE LIGHT BLACK</b> wire to the <b>BLACK</b> wire.</li> </ul> </li> <li>Reinstall the taillight assemblies.</li> <li><b>Go to Step 36 “Connect to the Main Power”.</b></li> </ul> 
<p><b>34.</b> Install the LICENSE PLATE LIGHT on General or Ranger 1000</p>	<ul style="list-style-type: none"> <li>At the <b>REAR TURN SIGNAL HARNESS – REAR CONNECTION</b> 4 pin connector locate the short <b>RED</b> and <b>BLACK</b> wires with female bullet connectors.</li> <li>Route the <b>LICENSE PLATE LIGHT</b> wires to the <b>REAR TURN SIGNAL HARNESS</b> 4 pin connector red red and black wires: <ul style="list-style-type: none"> <li>Connect the <b>LICENSE PLATE LIGHT RED</b> wire to the <b>RED</b> wire.</li> <li>Connect the <b>LICENSE PLATE LIGHT BLACK</b> wire to the <b>BLACK</b> wire.</li> </ul> </li> <li><b>Go to Step 36 “Connect to the Main Power”.</b></li> </ul> 
<p><b>35.</b> Install the LICENSE PLATE LIGHT on another Ranger</p>	<ul style="list-style-type: none"> <li>At the rear taillight (either side) or at the center tee position locate the <b>RED/WHITE</b> (12 volt DC) and <b>BROWN</b> (ground) wires leading to the vehicle rear taillight assembly.</li> <li>Push the sleeve back to expose the <b>RED/WHITE</b> wire and <b>BROWN</b> wire for approximately 3 to 4 inches.</li> </ul> <p><b>NOTE:</b> 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"> <li>Install a <b>PARALLEL TAP</b> connector on the <b>RED/WHITE</b> (orange/white) wire and <b>BROWN</b> (black) wires, referring to “How to install a PARALLEL TAP” in Step 31 as needed.</li> <li>Route the <b>LICENSE PLATE LIGHT</b> wires to the <b>PARALLEL TAPS</b> installed on the <b>RED/WHITE</b> wire and <b>BROWN</b> wires: <ul style="list-style-type: none"> <li>Connect the <b>LICENSE PLATE LIGHT RED</b> wire to the <b>RED/WHITE</b> wire.</li> <li>Connect the <b>LICENSE PLATE LIGHT BLACK</b> wire to the <b>BROWN</b> wire.</li> </ul> </li> <li>Continue to Step 36 “Connect to the Main Power”.</li> </ul>  
<p><b>36.</b> <b>Connect to the Main Power</b></p> 	<p><b>IMPORTANT:</b> On the POWER AND GROUND ADAPTER verify that the RED and BLACK wires are in the positions as pictured. If not, please contact Ryco Motorsports before proceeding.</p> <p><b>EXPLANATION:</b> Beginning with model year 2018, some Ranger 1000 vehicles have the Polaris Pulse Electrical System; beginning with model year 2019 the General has this system as well. The XD 1500 and Xpedition also use the Pulse system. The Ryco Moto kit ties into the Polaris Pulse when available.</p> <p><b>IMPORTANT:</b> The LED lights and SELF-CANCELING FLASHER RELAY are polarity sensitive: The RYCO POWER, GROUND &amp; HORN HARNESS <b>RED</b> 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>






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	<ul style="list-style-type: none"> <li>Determine how to connect to the main power:</li> </ul> <table border="1" data-bbox="324 220 1169 525"> <thead> <tr> <th data-bbox="324 220 974 252">If installing on...</th> <th data-bbox="974 220 1169 252">Then go to...</th> </tr> </thead> <tbody> <tr> <td data-bbox="324 252 974 283">A vehicle with the Polaris Pulse system,</td> <td data-bbox="974 252 1169 283" rowspan="4">Step 37.</td> </tr> <tr> <td data-bbox="324 283 974 315">A 2018 or newer Ranger 1000 (i.e. Polaris Pulse),</td> </tr> <tr> <td data-bbox="324 315 974 346">A 2019 or newer General (i.e. Polaris Pulse),</td> </tr> <tr> <td data-bbox="324 346 974 378">A Ranger XD 1500 (i.e. Polaris Pulse),</td> </tr> <tr> <td data-bbox="324 378 974 409">An Xpedition (i.e. Polaris Pulse),</td> <td data-bbox="974 378 1169 409" rowspan="2">Step 38.</td> </tr> <tr> <td data-bbox="324 409 974 441">A 2018 or older General,</td> </tr> <tr> <td data-bbox="324 441 974 472">A 2017 or older Ranger 1000,</td> <td data-bbox="974 441 1169 472" rowspan="2">Step 39.</td> </tr> <tr> <td data-bbox="324 472 974 525">Another Ranger model,</td> </tr> </tbody> </table>	If installing on...	Then go to...	A vehicle with the Polaris Pulse system,	Step 37.	A 2018 or newer Ranger 1000 (i.e. Polaris Pulse),	A 2019 or newer General (i.e. Polaris Pulse),	A Ranger XD 1500 (i.e. Polaris Pulse),	An Xpedition (i.e. Polaris Pulse),	Step 38.	A 2018 or older General,	A 2017 or older Ranger 1000,	Step 39.	Another Ranger model,
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A 2017 or older Ranger 1000,	Step 39.													
Another Ranger model,														
<p><b>37.</b> Connect to the Main Power on a vehicle with Polaris Pulse</p>	<ul style="list-style-type: none"> <li>Locate the Polaris Pulse bar on the <b>passenger</b> side of the vehicle in the front compartment.</li> <li>Remove and discard one of the vehicle plugs and install the <b>POWER AND GROUND ADAPTER</b> in its place.</li> <li>Route the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> fused wires through the grommet in the firewall towards the terminal block.</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> ground wire to the <b>POWER AND GROUND ADAPTER</b> female bullet connector on the BLACK (ground) wire.</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK RED</b> fused wire to the <b>POWER AND GROUND ADAPTER</b> female bullet connector on the RED wire (12 volt DC).</li> <li>If installing on an <b>Xpedition</b>, reinstall the battery.</li> <li><b>Go to Step 40 "Test"</b>.</li> </ul>  													
<p><b>38.</b> Connect to the Main Power on a 2018 or older General, or 2017 or older Ranger 1000</p>	<ul style="list-style-type: none"> <li>Locate the terminal block on the <b>passenger</b> side of the vehicle in the front compartment.</li> <li>Loosen the center and <b>passenger</b> side terminals marked as ground and accessory.</li> <li>Loosen one terminal block mounting screw on the ground side.</li> <li>Install the <b>TERMINAL BLOCK ADAPTER RED</b> wire split ring terminal under the nut on the stud marked "Accessory," and one BLACK wire split ring terminal under the nut on the stud marked "Ground."</li> </ul> <p><b>IMPORTANT:</b> Do not attach the <b>TERMINAL BLOCK ADAPTER RED</b> wire to the stud marked "Battery". If this is done the running lights will stay on continually, and the turn signal/horn kit will remain powered, running the battery down.</p> <ul style="list-style-type: none"> <li>Install the remaining BLACK wire terminal pin under the terminal block mounting screw.</li> <li>Tighten the nuts and screw.</li> </ul> <p><b>NOTE:</b> Do not overtighten.</p> <ul style="list-style-type: none"> <li>Route the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK</b> fused wires through the grommet in the firewall towards the terminal block.</li> <li>Connect the BLACK ground wire to the <b>TERMINAL BLOCK ADAPTER</b> female bullet connector on the BLACK wire (ground).</li> <li>Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS BLACK RED</b> fused wire to the <b>TERMINAL BLOCK ADAPTER</b> female bullet connector on the RED wire (12 volt DC).</li> <li><b>Go to Step 40 "Test"</b>.</li> </ul> 													



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<p><b>39.</b> Connect to the Main Power on other Rangers</p>	<p><b>NOTE:</b> The center <b>ORANGE</b> wire on the auxiliary power outlet is 12 volt DC, and the <b>BROWN</b> wire is ground. The auxiliary power outlet is active when the ignition key is in the "ON" position.</p> <p><b>NOTE:</b> Either top or bottom auxiliary power plug works equally well.</p> <ul style="list-style-type: none"> <li>• Locate the vehicle's <b>ORANGE</b> and <b>BROWN</b> wires leading to the back side of the auxiliary power outlet (i.e., the cigarette lighter outlet, for you ol' timers), and then unplug those wires from the auxiliary power plug.</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 vehicle's <b>BROWN</b> and <b>ORANGE</b> wires, as shown, referring to "How to Install a PARALLEL TAP" in Step 8 as needed.</li> <li>• Connect the <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> to the <b>PARALLEL TAP</b> connectors on the auxiliary power outlet wires: <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> </li> <li>• Reconnect the vehicle's <b>BROWN</b> and <b>ORANGE</b> wires to the auxiliary power outlet terminals.</li> <li>• Continue to Step 40 "Test".</li> </ul> 
<p><b>40.</b> <b>Test</b></p>	<ul style="list-style-type: none"> <li>• Double check all the connectors.</li> <li>• Start the vehicle's engine.</li> <li>• Verify that the turn signals, four-way flasher, indicators, 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> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <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> <p><b>NOTE:</b> The SELF-CANCELING FLASHER RELAY feature means the four-way flasher will time out after a few minutes. If the four-way flasher feature is used regularly, contact Ryco Motorsports for a different flasher relay without the self-canceling feature.</p> </div>
<p><b>41.</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 the dash cover and front access panel, floorboard access panel, seats, etc.</li> </ul>



# Turn Signal/Horn Kit 7202

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	✓	The <b>REAR TURN SIGNAL HARNESS RED</b> and BLACK wires were connected to the wrong ends of the cut vehicle taillight wires. Refer to Step 18.
Scenario 3	✓	✓	✓	No	✓	✓	<b>BRAKE INTERFACE</b> not installed correctly. Refer to Step 26.
Scenario 4	✓	✓	✓	✓	✓	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 30.
Scenario 5	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). Refer to Step 36.
Scenario 6	No	No	No	✓	✓	No	Ensure that the <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> BLACK ground wire is connected to a good ground. Refer to Step 36.
Scenario 7	No	No	✓	✓	No	✓	If the turn signal lights illuminate but do not flash, then the <b>SELF-CANCELING FLASHER RELAY</b> is damaged or defective. Contact Ryco Motorsports by email or phone, provide the shipping address, and Ryco Moto will send a replacement, at no charge, to correct the problem.
Scenario 8	No	No	No	✓	No	✓	If the vehicle blows a fuse when the key is turned on, check for a bent pin on the connection between the <b>RYCO POWER, GROUND &amp; HORN HARNESS</b> and the <b>TURN SIGNAL/HORN SWITCH</b> harness.
Scenario 9	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.						



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Does It Work Correctly?	Front Turn Signals	Indicator Lights	Horn	Brake Lights	Rear Turn Signals	License Plate Light	Resolution								
Scenario 10	✓	No	✓	✓	✓	✓	<p>Do the indicator lights illuminate?</p> <table border="1"> <thead> <tr> <th data-bbox="725 472 901 504">If...</th> <th data-bbox="901 472 1528 504">Then...</th> </tr> </thead> <tbody> <tr> <td data-bbox="725 504 901 703">Yes, but only one side of the indicator lights flash,</td> <td data-bbox="901 504 1528 703">           Test when the engine is running.   <b>EXPLANATION:</b> On some machines, when the machine is keyed on but the engine is not running, the Instrument Cluster Indicator flashes only when the left turn signal is activated, or vice versa.         </td> </tr> <tr> <td data-bbox="725 703 901 976">Yes, but the indicator lights do not flash,</td> <td data-bbox="901 703 1528 976"> <b>EXPLANATION:</b> On some older vehicles (i.e., prior to 2020), the indicators do not flash, but stay on solid when the turn signal switch is activated. After installation and testing if this is the case, contact Ryco Motorsports by email or phone, provide the mailing address, and Ryco Motorsports will ship a different indicator harness (PDI ASSEMBLY), at no charge, that may enable the indicators to flash.         </td> </tr> <tr> <td data-bbox="725 976 901 1413">No,</td> <td data-bbox="901 976 1528 1413"> <ul style="list-style-type: none"> <li>• Ensure the clear plastic cover is removed, and the pins are seated correctly. Refer to Step 13.</li> <li>• If the pins are verified and the indicator light(s) does not illuminate, the vehicle indicator(s) is not compatible with the Ryco Moto kit. Refer to Step 14 to install the DASH INDICATORS HARNESS if preferred.</li> </ul> <p><b>NOTE:</b> The INSTRUMENT CLUSTER INDICATOR HARNESS can be abandoned in place, and then the INSTRUMENT CLUSTER INDICATOR HARNESS disconnected from the 3 pin connector with the BLUE marking.</p> </td> </tr> </tbody> </table>	If...	Then...	Yes, but only one side of the indicator lights flash,	Test when the engine is running.  <b>EXPLANATION:</b> On some machines, when the machine is keyed on but the engine is not running, the Instrument Cluster Indicator flashes only when the left turn signal is activated, or vice versa.	Yes, but the indicator lights do not flash,	<b>EXPLANATION:</b> On some older vehicles (i.e., prior to 2020), the indicators do not flash, but stay on solid when the turn signal switch is activated. After installation and testing if this is the case, contact Ryco Motorsports by email or phone, provide the mailing address, and Ryco Motorsports will ship a different indicator harness (PDI ASSEMBLY), at no charge, that may enable the indicators to flash.	No,	<ul style="list-style-type: none"> <li>• Ensure the clear plastic cover is removed, and the pins are seated correctly. Refer to Step 13.</li> <li>• If the pins are verified and the indicator light(s) does not illuminate, the vehicle indicator(s) is not compatible with the Ryco Moto kit. Refer to Step 14 to install the DASH INDICATORS HARNESS if preferred.</li> </ul> <p><b>NOTE:</b> The INSTRUMENT CLUSTER INDICATOR HARNESS can be abandoned in place, and then the INSTRUMENT CLUSTER INDICATOR HARNESS disconnected from the 3 pin connector with the BLUE marking.</p>
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