






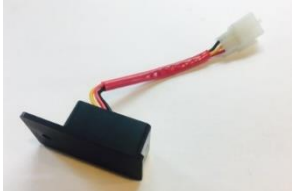





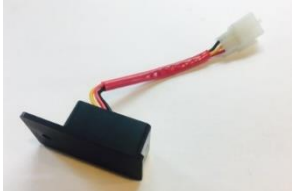





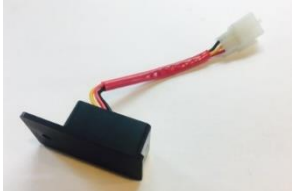


















Turn Signal/Horn Kit 8103

<p>Before you begin</p>	<p>STOP! THIS KIT IS DESIGNED SPECIFICALLY FOR</p> <ul style="list-style-type: none"> • Can-Am COMMANDER, including MAX, ONLY 2021 • Can-Am MAVERICK SPORT, including MAX, all years, • Can-Am MAVERICK TRAIL, all years, • Can-Am MAVERICK X3, including MAX, all years <p>NOTE: The COMMANDER model years 2020 and earlier use a different kit.</p> <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>Digital Copy</p>	 <p>Scan to access a digital copy of these instructions.</p> <p>HINT: The text and photos can then be enlarged digitally if needed.</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"> • 9/32" and 3/4" diameter drill bits • 10 mm or 5/16" socket/nut driver or flat blade screwdriver • Test light or ohmmeter • Phillips screwdriver • 10 mm wrench • center punch • drill motor   								
<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> <p>NOTE: Not all items will be used in each installation, which varies by vehicle model.</p> <table border="1" data-bbox="310 1081 1531 1677"> <tr> <td data-bbox="310 1081 716 1360"> <p>SCREW CLAMP</p>  </td> <td data-bbox="716 1081 1122 1360"> <p>SCREW CLAMP COVER</p>  </td> <td data-bbox="1122 1081 1531 1360"> <p>TURN SIGNAL/HORN SWITCH</p>  <p>The connectors interface with the various kit components.</p> </td> </tr> <tr> <td data-bbox="310 1360 716 1677"> <p>SELF-CANCELING FLASHER RELAY</p>  <p>- 3 pin connector - No marking tape</p> </td> <td data-bbox="716 1360 1122 1677"> <p>RYCO POWER, GROUND & HORN HARNESS</p>  <p>- 4 pin connector - GREEN marking tape</p> </td> <td data-bbox="1122 1360 1531 1677"> <p>BRAKE SWITCH INTERFACE</p>  <p>- 2 pin connector - No marking tape</p> </td> </tr> </table>			<p>SCREW CLAMP</p> 	<p>SCREW 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 SWITCH INTERFACE</p>  <p>- 2 pin connector - No marking tape</p>
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	<p>CABLE TIE</p> 	<p>HORN</p> 	<p>PARALLEL TAP</p>  <p>NOTE: This photo shows one PARALLEL TAP open, and another PARALLEL TAP folded closed.</p>
	<p>FRONT TURN SIGNAL HARNESS</p>  <p>- 4 pin connector - RED marking tape</p>	<p>INSTRUMENT CLUSTER INDICATOR HARNESS – TWO PIN</p>  <p>- 3 pin connector - BLUE marking tape</p>	<p>INSTRUMENT CLUSTER INDICATOR HARNESS – ONE PIN</p>  <p>- 3 pin connector - BLUE marking tape</p>
	<p>REAR TURN SIGNAL HARNESS</p>  <p>- 3 pin connector - RED marking tape</p>	<p>LICENSE PLATE LIGHT</p> 	<p>TWO HOLE ADAPTER</p> 
	<p>PLATE HOLDER</p> 	<p>FLANGE BOLT and LOCK 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>		



Turn Signal/Horn Kit 8103

<p>1. Determine if the Vehicle Has Indicator Lights</p>	<p>Determine whether the vehicle has indicator lights in the instrument cluster/digital display.</p> <p>EXPLANATION: Can-Am did NOT include factory turn signal indicators on some models. During the first seconds of start-up, all segments of the instrument panel/display will light up briefly, including indicator lights, if present.</p> <div style="display: flex; justify-content: space-around;">    </div> <ul style="list-style-type: none"> Start-up the vehicle and determine whether the vehicle has indicator lights. <ul style="list-style-type: none"> If yes, the vehicle has indicator lights, then you will install the applicable INSTRUMENT CLUSTER INDICATOR HARNESS in a later step. If no, the vehicle does not have indicator lights, then you can request a DASH INDICATORS HARNESS if you prefer. <p>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 local dealer or Ryco Motorsports if you want this part, 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. Installation of this part is shown in a later step.</p>
<p>2. Verify Brake Lights</p>	<ul style="list-style-type: none"> With the engine running, step on the brake pedal, and verify that the brake lights function correctly. <ul style="list-style-type: none"> If yes, turn off the engine and then continue to Step 3. If no, adjust the vehicle brake switch until the brake lights function, and then turn off the engine and continue to Step 3.
<p>3.</p>	<ul style="list-style-type: none"> Is the vehicle a model year 2020 or newer? <ul style="list-style-type: none"> If yes, it is a model year 2020 or newer, go to Step 4. If no, it is a model year 2019 or older, remove the access panel in front of the instrument cluster, and then go to Step 4. 
<p>4. Mount the TURN SIGNAL/HORN SWITCH</p>	<p>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.</p> <ul style="list-style-type: none"> Trim the SCREW CLAMP COVER by about 1" to fit around the vehicle steering column as shown. 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. 



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- Secure the **TURN SIGNAL/HORN SWITCH** to the vehicle steering column as shown.
- Route the **TURN SIGNAL/HORN SWITCH** wiring between the steering column and above the tilt mechanism, and then up under the dash.



MAVERICK TRAIL



X3

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.

5. 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.

NOTE: 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),
- **RYCO POWER, GROUND & HORN HARNESS** (4 pin **GREEN** marking), and
- **BRAKE SWITCH INTERFACE** (2 pin NO marking).



NOTE: Only one pin of the BRAKE SWITCH INTERFACE 2 pin connector is used.

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

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

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

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.

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** on a suitable support point, using the provided fastener.
- Route the **RYCO POWER, GROUND & HORN HARNESS** from the **TURN SIGNAL/HORN SWITCH** assembly to the **HORN**.
- Install the two flat spade connectors to the **HORN** terminals.

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





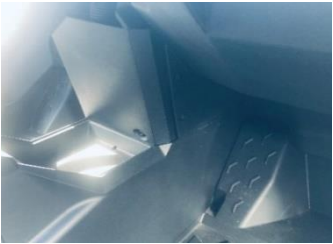
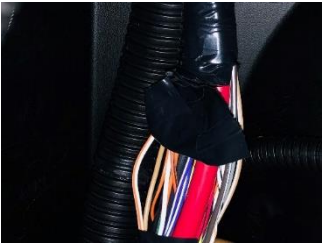
MAVERICK TRAIL



Turn Signal/Horn Kit 8103

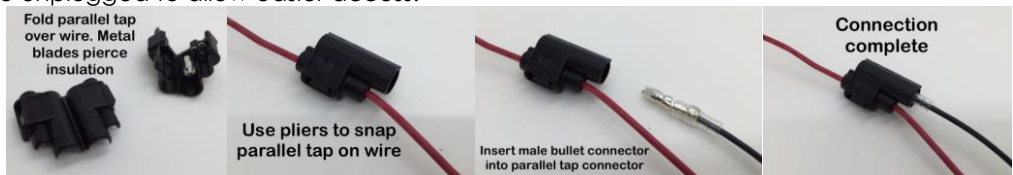
7. Install the BRAKE SWITCH INTERFACE

NOTE: The brake interface connection CANNOT be made near the vehicle brake switch and MUST be made after the vehicle brake relay.

If installing on...	Then...
a COMMANDER, a MAVERICK SPORT, a MAVERICK TRAIL,	<ul style="list-style-type: none"> Locate the main vehicle wire bundle that runs from the front to rear of the vehicle.   <ul style="list-style-type: none"> Locate the WHITE/ORANGE wire.
an X3,	  <ul style="list-style-type: none"> Remove the kick plate and lower center cover on the center console/tunnel. Locate the main vehicle wire bundle that runs from the front to rear of the vehicle. Locate the WHITE/ORANGE wire.

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

NOTE: Check the orientation of the PARALLEL TAP connectors to ensure access for the male connector, prior to seating the PARALLEL TAP connector with pliers. If applicable, the connector can be unplugged to allow easier access.



- Install a **PARALLEL TAP** on the WHITE/ORANGE wire, referring to "How to Install a PARALLEL TAP" in Step 5 as needed.
- Plug the **BRAKE SWITCH INTERFACE RED** harness into the **PARALLEL TAP** on the WHITE/ORANGE wire.

8. Install the FRONT TURN SIGNAL HARNESS

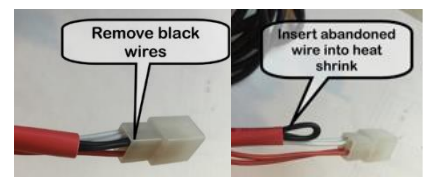
Front Running Light Feature: The front turn signal LEDs are running lights, and illuminate at 60% intensity when the vehicle ignition is on, and then flash at full intensity when the turn signals are activated.

If you wish to disable the running light feature,

- On the FRONT TURN SIGNAL HARNESS remove the BLACK wire in the 4 position connector.

NOTE: Use a very fine flat blade screwdriver or similar tool to depress the metal tab on the pin joining the two black wires.

- Push the pin out of the 4 position connector, and tuck the pin into the red heat shrink or tape it out of the way.





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MAVERICK TRAIL



X3



NOTE: The photos of the CAN-AM DEFENDER are for added reference only.

- Determine the locations of the front LEDs on the outboard side of the headlights.

HINT: 1 ¼"-1 ½" spacing between the holes works well.

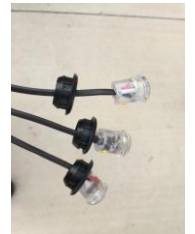
HINT: A stepped drill works best to drill the holes in the plastic body work.

- Mark the locations using a center punch.
- Drill a ¾" diameter hole for each front turn signal LED.
- From the front side of the firewall, route the **FRONT TURN SIGNAL HARNESS** 4 pin connector and cables through the grommet in the firewall.
- Connect the **FRONT TURN SIGNAL HARNESS** (4 pin **RED** marking) to the **TURN SIGNAL/HORN SWITCH** harness.

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









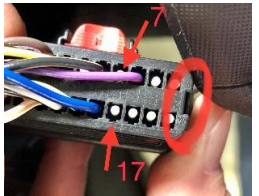

HINT: A little warmth and moisture helps to slip everything together.

- Route the **FRONT TURN SIGNAL HARNESS** triple LEDs to the front corners of the vehicle.
- Slide the rubber flange gaskets on each LED back onto the wires.
- Slip each LED 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 LED into its flange gasket with a gentle pulling and rocking motion.
- Rotate each LED within its gasket to orient the LEDs in the same relative position.





Turn Signal/Horn Kit 8103

<p>9. Install the Indicator Harness</p>	<ul style="list-style-type: none"> Determine which indicator harness to install based on the results from Step 1: 		
<p>If installing on a model with a(n)... Digital display WITH indicators</p>  	<p>Use the... INSTRUMENT CLUSTER INDICATOR HARNESS – TWO PIN,</p> 	<p>Go to... Step 10.</p>	
<p>Analog display NOTE: A double-headed indicator arrow is in the 12 o'clock position.</p> 	<p>INSTRUMENT CLUSTER INDICATOR HARNESS – ONE PIN,</p> 	<p>Step 11.</p>	
<p>Display WITHOUT indicators (e.g., 2020 X3 base model, 2019 or older Sport and Trail models) 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 local dealer or Ryco Motorsports if you want this part, 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.</p>	<p>DASH INDICATORS HARNESS</p> 	<p>Step 12.</p>	
<p>10. Install the INSTRUMENT CLUSTER INDICATOR HARNESS – TWO PIN</p>	<p>IMPORTANT: Disconnect the power cable from the battery. Failure to do so may result in a blown fuse and added time troubleshooting.</p> <ul style="list-style-type: none"> This is IMPORTANT! That's why it's in red: Disconnect the power cable from the battery. Disconnect the multi-pin connector from the back of the instrument cluster assembly by pulling the RED tab out, depressing the BLACK lock tab, and then pulling the connector away from the mating part on the instrument cluster. Remove the multi-pin connector back cover by depressing the locking tabs on the ends of the cover. Remove the WHITE colored front cover by depressing the locking tabs on the ends of the cover.   <p>HINT: You may need to insert a small flat blade in the side openings and lightly pull to free the cover from the housing.</p> <p>EXPLANATION: The pin positions are not numbered. When holding the connector as pictured, with the RED lock tab up, <u>count LEFT to RIGHT</u>, top row for position 7, continuing <u>LEFT to RIGHT</u> on the bottom row for position 17.</p>   <ul style="list-style-type: none"> Remove and discard the plastic plugs in position 7 and 17. Route the RED and GREEN wires/pins through the back cover. Install the INSTRUMENT CLUSTER INDICATOR HARNESS – TWO PIN RED pin/wire in position 7. Install the INSTRUMENT CLUSTER INDICATOR HARNESS – TWO PIN GREEN pin/wire in position 17. 		



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This is **IMPORTANT!** That's why it's underlined: Use care and ensure the pins are all aligned and oriented correctly before reinstalling the front cover.

- Reinstall the front cover.
- Close the back cover.
- Route the new **RED** and **GREEN** wires adjacent to the existing wires.
- Reinstall the plastic cable covering over the wires leading to the multi-pin connector.
- Reconnect the multi-pin connector to the 7" digital display.
- Reconnect the power cable to the battery.
- Connect the **INSTRUMENT CLUSTER INDICATOR HARNESS** to the **TURN SIGNAL/HORN SWITCH** harness, matching the **BLUE** marking.
- **Go to Step 13 "Install the REAR TURN SIGNAL HARNESS".**



NOTE: Cable covering not shown for clarity.

TROUBLESHOOTING: After completing all the installation steps through the end of this document, through Step "TEST," if there is no power to the instrument cluster, locate and replace if necessary the 10 amp "key switch" fuse behind the driver seat.



11. Install the INSTRUMENT CLUSTER INDICATOR HARNESS – ONE PIN

HINT: You can watch a short video on installing the INSTRUMENT CLUSTER INDICATOR harness at youtu.be/x6lasVGkpkg, or search "Ryco Moto Can-Am dash" on YouTube.

- Remove the instrument cluster cover.
- Disconnect the multi-pin connector from the back of the instrument cluster assembly by depressing the single locking tap on the connector, and then pulling the connector away from the mating part.



CAUTION: Do not use a metal object to remove the plastic plug covering position 8.

HINT: Use your fingernail to easily remove the plastic plug.

NOTE: Depending on the vehicle model, there may already be a wire in position 8. This wire can be removed without affecting the vehicle functionality. Use your fingernail to get behind the lock, push the pin down, pull the wire pin out, and tuck it out of the way.

- Open the connector cover, and then remove and discard the plastic plug in position 8.



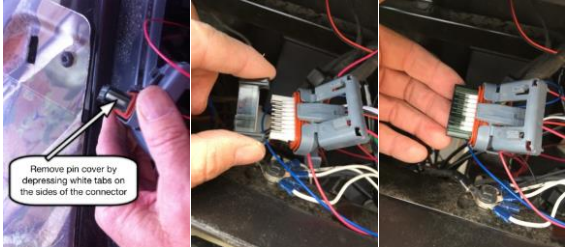
- This is **IMPORTANT!** That's why it's underlined: Remove the clear pin cover on the front side of the connector by depressing the tabs on the sides of the connector.
- Install the **INSTRUMENT CLUSTER INDICATOR HARNESS – ONE PIN** pin/wire in position 8.

IMPORTANT: Pin must be seated completely.



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	<ul style="list-style-type: none">• This is <u>IMPORTANT!</u> That's why it's underlined: <u>Verify the new pin matches the installation depth of the existing pins.</u>• Reinstall the clear pin cover.• Route the new wire adjacent to the existing wires.• Close the back cover.• Connect the INSTRUMENT CLUSTER INDICATOR HARNESS – ONE PIN to the TURN SIGNAL/HORN SWITCH harness, matching the BLUE marking.• Reinstall the connector to the instrument cluster, and reinstall the instrument cluster cover. <p>EXPLANATION: The instrument cluster turn signal indicator <u>double arrow flashes regardless</u> of the direction of the switch.</p> <ul style="list-style-type: none">• Go to Step 13 “Install the REAR TURN SIGNAL HARNESS”.
<p>12. Install the DASH INDICATORS 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 INDICATORS 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 INDICATORS HARNESS (3 pin BLUE marking) to the TURN SIGNAL/HORN SWITCH harness.
<p>13. Install the REAR TURN SIGNAL HARNESS</p>	<p>EXPLANATION: The REAR TURN SIGNAL HARNESS is a zip cord; the red and black wires pull apart easily. Separate the red and black wires as needed to complete the following steps.</p> <p>NOTE: Only two pins of the REAR TURN SIGNAL HARNESS 3 pin connector are used. The rear turn signal circuit utilizes the existing vehicle ground.</p> <p>IMPORTANT: Ensure the wiring does not contact moving components or hot surfaces.</p> <ul style="list-style-type: none">• Connect the REAR TURN SIGNAL HARNESS (3 pin RED marking) to the TURN SIGNAL/HORN SWITCH harness.• Route the REAR TURN SIGNAL HARNESS, alongside the existing wires where practical, to the rear of the vehicle.• Secure with CABLE TIES.





Turn Signal/Horn Kit 8103

- Identify the wires to be used to install the **REAR TURN SIGNAL HARNESS**:

If installing on a...

Then...

COMMANDER

NOTE: The wire colors from the 4 pin rear connector on the driver side rear above the clutch cover, to the splice are NOT the same as after the splice. The **ORANGE/WHITE** wires must be cut **AFTER** the splice near the driver side taillight.

- Locate the rear taillight harness that runs from the driver side to passenger side at the rear of the vehicle bed.
- On the driver side where the harness goes into the bed towards the taillight, expose the wires for approximately 12"-15".
- On the driver side of the splice locate the three wires going to the taillight:
 - The **PURPLE/WHITE** and **BLACK** will be used in a later step to install the **LICENSE PLATE LIGHT**.
 - The **ORANGE/WHITE** wire is to be used to install the **REAR TURN SIGNAL HARNESS**.
- On the passenger side of the splice, locate the **ORANGE/WHITE** wire to be used to install the **REAR TURN SIGNAL HARNESS**.



MAVERICK SPORT
MAVERICK TRAIL

- Remove the fasteners securing the assemblies to the bed.
- Pull the cover back to expose the wire harnesses going to the taillight assemblies.



MAVERICK X3

- Locate the rear taillight 3 pin connectors, on each side of the vehicle in front of the rear wheels on the rear firewall.





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14.

EXPLANATION: Can-Am varies the color of the vehicle wires. The colors referenced in the following steps seem to be used on the majority of vehicles. There are three wires going to each taillight assembly: ORANGE/WHITE, PURPLE/WHITE, and BLACK. The BLACK wire is always ground. The steps below include using a test light or ohmmeter to determine which wire in your vehicle is hot (A.K.A. the taillight assembly running light wire) when the ignition is on, which is typically the PURPLE/WHITE wire. The hot wire is the 12 V DC wire to which the LICENSE PLATE LIGHT is connected. Knowing this, you can then determine which wire is hot only when the brake is activated (A.K.A. the outgoing wire to the vehicle brake light), which is typically the ORANGE/WHITE wire.

- Locate each 3 pin connector located under the bed on the support frame.
- Disconnect one of the 3 pin connectors to determine which wire is the vehicle brake light wire to connect to the Ryco **REAR TURN SIGNAL HARNESS**.
- Use a test light or ohmmeter on the wires of the 3 pin connector coming from the front of the vehicle to determine which wire is hot when the ignition is on.
- Make note of the other, NON-hot wire; this is the outgoing wire to the vehicle brake light wire to connect to the Ryco **REAR TURN SIGNAL HARNESS**, and is typically the ORANGE/WHITE.

NOTE: You MUST cut the outgoing wire to the vehicle brake light, and connect to the RED and BLACK wires on the Ryco REAR TURN SIGNAL HARNESS. If you splice into the wires, rather than cut the wires, it will not function properly.

- Cut the outgoing wire to the vehicle brake light (e.g. the ORANGE/WHITE wires) approximately 2-3" on the taillight side of the 3 pin connectors.
- Abandon the cut ends of the outgoing wire to the vehicle brake light (e.g. the ORANGE/WHITE wires) COMING FROM THE FRONT OF THE VEHICLE, and tuck the ends back into the vehicle wire harness sleeve and/or tape over with electrical tape.
- Strip approximately 1/8" of insulation from the wires on the taillight side.

How to Use the Solderless Connectors:

- Unscrew the solderless connector end piece, and slip it over the wire of the component to connect.
- Start to screw the end piece back in place, and push the wire of the component being connected, so it is seated in the solderless connector.
- Tighten the end pieces.



Connect the **REAR TURN SIGNAL HARNESS** to the outgoing wire to the vehicle brake light (e.g. the ORANGE/WHITE wire) as follows using the solderless connectors:

- Attach the **REAR TURN SIGNAL HARNESS** BLACK wire to the RIGHT taillight outgoing wire to the vehicle brake light (e.g. the ORANGE/WHITE wire).
- Attach the **REAR TURN SIGNAL HARNESS** RED wire to the LEFT taillight vehicle outgoing wire to the vehicle brake light (e.g. the ORANGE/WHITE wire).
- Abandon the other ends of the outgoing wire to the vehicle brake light (e.g. the ORANGE/WHITE wire) COMING FROM THE FRONT OF THE VEHICLE, and tuck the ends back into the factory wire harness sleeve and/or tape over with electrical tape

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



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15. Install the PLATE HOLDER and LICENSE PLATE LIGHT

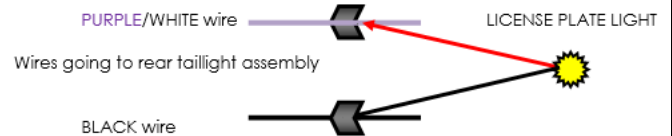
EXPLANATION: The LICENSE PLATE LIGHT can be installed either:

- as one of the four license plate bolts, or
- in the TWO HOLE ADAPTER where the light will shine on the license plate, or
- In the plastic body above the license plate.



IMPORTANT: 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.

- Mount the license **PLATE HOLDER** and license plate (when available) on the rear of the vehicle in the factory provided mounting holes, using the **FLANGE BOLT and LOCK NUT**.
- Install a **PARALLEL TAP** on the 12 V DC wire (e.g. the **PURPLE/WHITE** wire), and a **PARALLEL TAP** on the **BLACK** (ground) wires near the driver side taillight 3 pin connector, referring to "How to Install a PARALLEL TAP" in Step 5 as needed.
- Connect the **LICENSE PLATE LIGHT RED** wire into the **PARALLEL TAP** on the 12 V DC wire (e.g., the **PURPLE/WHITE** wire).
- Connect the **LICENSE PLATE LIGHT BLACK** wire into the **PARALLEL TAP** on the **BLACK** wire.



16. Connect to the Main Power

IMPORTANT: The LEDs and SELF-CANCELING FLASHER RELAY are polarity sensitive: The RYCO POWER,GROUND & HORN HARNESS **RED** fused wire **MUST** be connected to the 12 volt DC (positive side), and the **BLACK** ground wire must be connected to the vehicle ground wire. If this is not done correctly, the horn will work, but the turn signals will not function.

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

- Determine how to connect to the main power:

If installing on model year...	Go to Step...
2017 or newer,	17.
2016 or earlier,	18.

17. Connect to the Main Power on 2017 or Newer



HINT: If installing on an X3 model, view a short YouTube video, "Locate the Terminal Block on a Can-Am Maverick X3". Scan this QR code or go to <https://youtu.be/nTlnumxzpjA> to access the video.

EXPLANATION: On the **TERMINAL BLOCK ADAPTER** the extra **BLACK** wire with the split ring terminal is not used. This extra **BLACK** wire can be cut and discarded, or the extra **BLACK** wire can be looped and the split ring terminal can be installed on the stud marked "Ground" with the other **BLACK** wire ring terminal.

- Locate the terminal block under the dash between the steering column and the center of the vehicle.
- Loosen the ground and accessory terminals.
- Loosen one of the terminal block mounting screws.
- Install the **TERMINAL BLOCK ADAPTER RED** 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."
- Tighten the nuts and screw, without overtightening.





Turn Signal/Horn Kit 8103

	<p>IMPORTANT: Do not attach the TERMINAL BLOCK ADAPTER RED 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"> Route the RYCO POWER, GROUND & HORN HARNESS wires through the grommet in the firewall towards the terminal block. Connect the RYCO POWER, GROUND & HORN HARNESS BLACK ground wire to the TERMINAL BLOCK ADAPTER female bullet connector on the BLACK wire (ground). Connect the RYCO POWER, GROUND & HORN HARNESS BLACK RED fused wire to the TERMINAL BLOCK ADAPTER female bullet connector on the RED wire (12 volt DC). Go to Step 19 "Test".
<p>18. Connect to the Main Power on 2016 or Earlier</p>	<ul style="list-style-type: none"> Ensure that the ignition key is in the "OFF" position. Locate the auxiliary power outlet (i.e., the cigarette lighter outlet, for you ol' timers) and install a PARALLEL TAP on both wires leading to the 12 volt power outlet, referring to "How to Install a PARALLEL TAP" in Step 5 as needed. Connect the RYCO POWER, GROUND & HORN HARNESS BLACK ground wire to the PARALLEL TAP connector on the vehicle BLACK ground wire Connect the RYCO POWER, GROUND & HORN HARNESS RED fused wire to the PARALLEL TAP on the 12 volt DC center terminal wire. <div style="display: flex; justify-content: space-around;"> <div data-bbox="846 569 1166 808"> <p style="text-align: center;">MAVERICK TRAIL</p> </div> <div data-bbox="1192 569 1511 808"> <p style="text-align: center;">X3</p> </div> </div>
<p>19. 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, four-way flasher, horn, brake, and license plate light work correctly. Refer to the Troubleshooting Guide at the end of this document. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Four-Way Flasher Feature: 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>NOTE: 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>20. 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 wiring is in place and functionality is verified, double check the routing, and secure with CABLE TIES. Bundle any extra wire length, and secure with the CABLE TIES. Reinstall covers and seats. <div style="text-align: right; margin-top: 10px;"> </div>



Turn Signal/Horn Kit 8103

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	✓	✓	BRAKE SWITCH INTERFACE was not installed correctly. Refer to Step 7.
Scenario 3	✓	No	✓	✓	✓	✓	If the INSTRUMENT CLUSTER INDICATORS do not illuminate, ensure that the clear plastic cover is removed, and the pin is seated correctly. Refer to Step 9.
Scenario 4	✓	✓	✓	No	No	✓	The REAR TURN SIGNAL HARNESS was connected incorrectly. Refer to Step 13.
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 15.
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). Refer to Step 16.
Scenario 7	No	No	No	✓	✓	No	Ensure that the RYCO POWER, GROUND & HORN HARNESS BLACK ground wire is connected to a good ground. Refer to Step 16.
Scenario 8	No	No	✓	✓	No	✓	If the turn signal lights illuminate but do not flash, then 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, at no charge, to correct the problem.
Scenario 9	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 RYCO POWER, GROUND & HORN HARNESS and the TURN SIGNAL/HORN SWITCH harness.
Scenario 10	If a set of lights does not work, check for a bent pin on the connection between the light harness and the TURN SIGNAL/HORN SWITCH harness.						