

"RYCOMOTO" Turn Signal / Horn Kit
BY RYCO MOTORSPORTS INC.

2115

All years Yamaha Rhino

STOP - THIS KIT IS DESIGNED SPECIFICALLY FOR ALL YEAR AND MODELS YAMAHA RHINO. IF YOUR MACHINE IS NOT A YAMAHA RHINO DO NOT PROCEED. Contact Ryco Motorsports or your local dealer.

Where do I start?

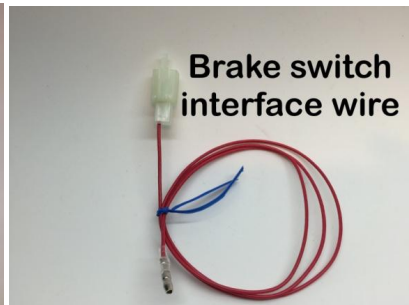
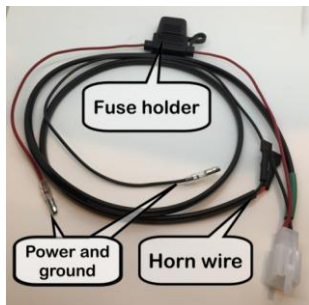
Step 1 – READ THE INSTRUCTIONS. If you are a guy and like most of us feel you can install this without taking the time to read the instructions then you should ask your wife or significant other to read them to you. I went to a lot of effort to create the instructions and I feel bad when no one reads them. Answers to all your questions should be covered in the installation instructions. We've included a lot of photo's for those of you who are visual and don't enjoy words.

Let's become familiar with the items you will be installing on your machine.

What's in the box?



PHOTO'S



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What tools do I need?

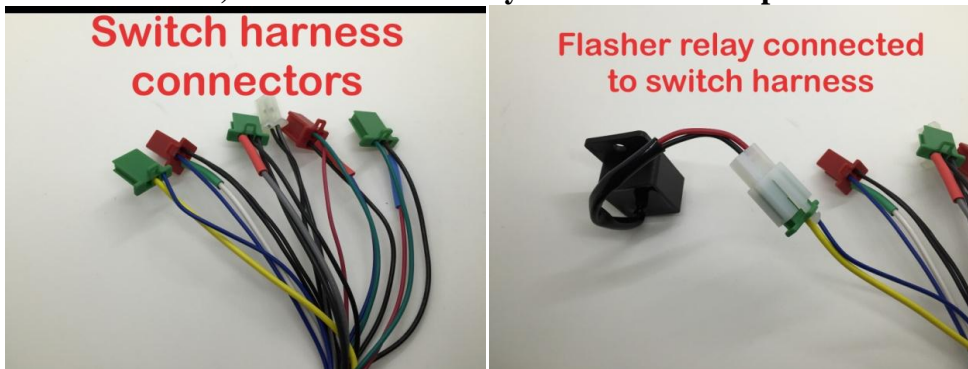
Tools needed: 10 mm or 5/16" socket/nut driver or flat blade screwdriver, Phillips screwdriver, 10 mm wrench, center punch, drill motor, 9/32", 1/2", 3/4" and 7/8" diameter drills (stepped bit works well) and pliers (or flat blade screwdriver) to pull plastic push rivets. Scissor to cut grommet.



Let's get started.

We'll show you how most of the items go together, then we'll show you where they go and how best to install the hardware.

Let's start at the switch. The switch harness connector interfaces with the various components. Notice the color coding on the most of the switch harness connector cables. Match the colors of the COLORED SLEEVES (red to red, green to green and blue to blue) on the cables when you install the components on the machine.



The flasher relay interface is the only 3 pin connector with no color coding.

The horn, power (fuse holder) and ground wires interface is a 4 pin connector with **green** color coding. **DO NOT CONFUSE THIS 4 PIN CONNECTION WITH FRONT HARNESS WHICH HAS RED COLOR CODING.**

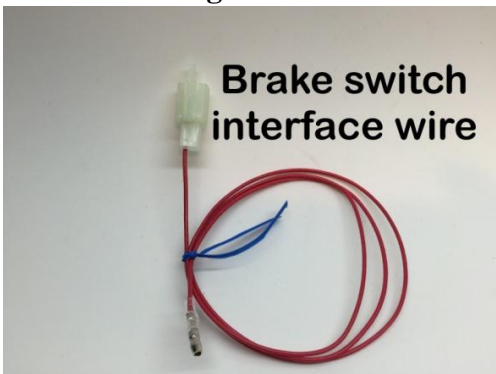
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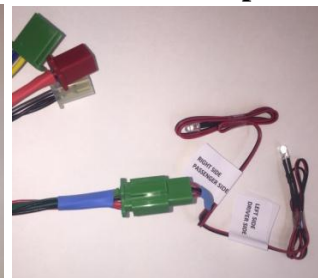
PHOTOS

The rear turn signal harness interface is a 3 pin connector with **red** color coding.



The brake light module is the only 2 pin connector and has no color coding.

The front turn signal harness interface is a 4 pin connector with **red** color coding.



The dash mounted turn signal indicators interface is a 3 pin connector with **blue** color coding.

The front turn signal harness adapter interfaces with 4 pin connector with **red** color coding.

Installation

NOTE: Where possible run new cables alongside the existing wires and utilize existing cable tie / anchors where practical and ensure wires do not contact moving components or hot surfaces.

NOTE: The switch should **NOT** have any of the cables or components installed on the harness until after the switch is installed and the switch harness is routed behind the dash.

1. Insure the ignition key is in the off position and the key removed.

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2. Remove the seats, engine and battery covers.
3. Install turn signal / horn switch on the steering column utilizing the provided screw clamp. Slip the clamp through the bracket on the switch assembly with the screw towards the bottom.

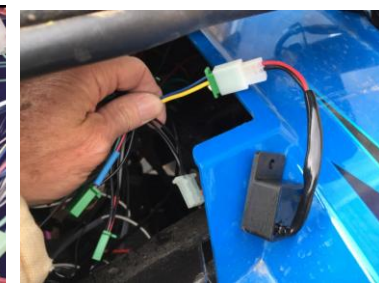
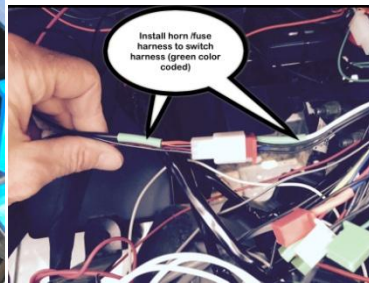


4. Place on the steering column and secure in place using a 5/16" nut driver or flat blade screwdriver.
5. Route the turn signal / horn switch wiring through the opening to the left of the steering column.

NOTE: Do not connect the front or rear turn signal harnesses to the switch harness at this time.

NOTE: Ensure the color coding is correct (Colored sleeve on the cables NOT the color of the connectors nor the color of the wires).

6. Install the flasher relay, horn and power (fuse) / ground harness, turn signal indicator harness and brake light harness to the switch harness.



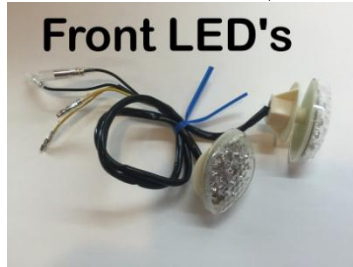
7. Secure the switch harness to a cross member using a cable tie. The flasher relay and can be bundled and secured with a cables tie to the switch harness.

NOTE: DO NOT OVERTIGHTEN THE PLASTIC NUT ON THE BACK OF THE LED'S. VERIFY THERE IS ADAQUATE ROOM ON THE BACK SIDE OF THE PANEL FOR THE PLASTIC NUT BEFORE DRILLING. DO NOT APPLY LOCKTITE TO THE PLASTIC THREADS.

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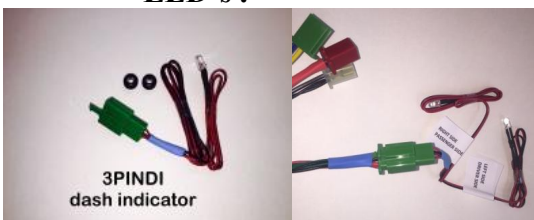
8. Position the front LED signal light approximately as shown and mark the location of the mounting hole. Drill a 3/8" (10mm) diameter hole.
9. Install the double stick tape to the back side of the LED.
10. Install the LED's with the plastic flange nut on the back side of the panel.



11. Install the front turn signal wiring harness to the switch harness 4 pin connector with red color coding.

NOTE: Cables are marked left and right.

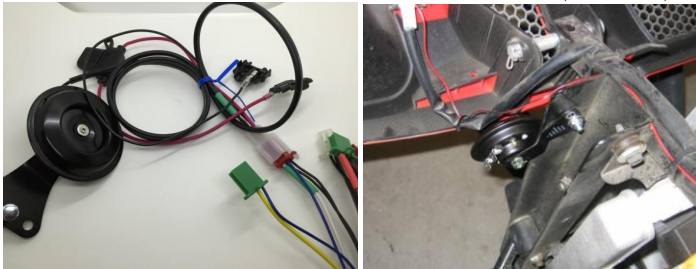
12. Route the cables alongside the existing headlight wiring where possible to the front LED's.
13. Connect the front turn signal wiring harness to the front LED's.
14. Mark the desired locations for the two LED dash mounted indicator LED's. Drill two 9/32" mounting holes in the dash for the indicator LED's .



15. Seat the rubber grommet into the hole, then push the LED into the holder from the rear until it is slightly protruding. Plug the left LED red wire into the green switch wire and the right LED wire into the red switch wire. Plug the LED combined black wires into one of the double female connectors on the black ground switch wire.
16. Install the horn in the existing hole on the driver side hood support bracket using the provided fastener as shown.
17. Route the horn cable to the horn and install the two flat spade connectors onto the horn (either wire work just as well).

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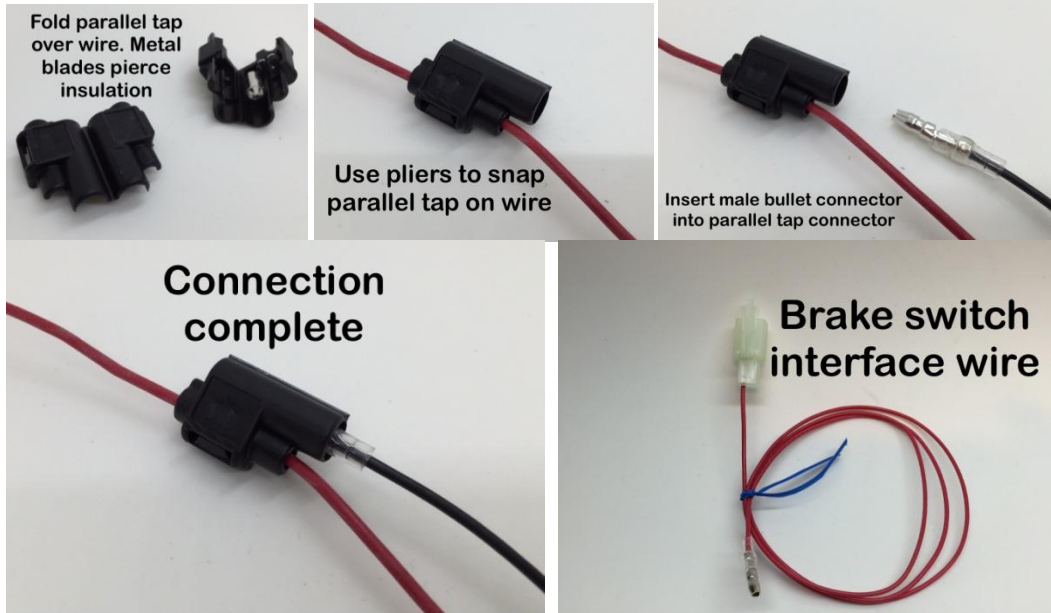
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18. Locate the existing brake switch and trace the wires up to a connector behind the dash. Carefully trim back approximately 2" of the outer cover close to the connector exposing the yellow and orange wires.



19. Install a parallel tap on the YELLOW wire.



20. Connect the brake switch interface wire to the parallel tap installed on the brake switch YELLOW wire.

21. Route the long taillight turn signal cable from the rear of the vehicle to the area where the new turn signal / horn switch wiring terminates near the flasher.

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NOTE: Where possible run new cables along side the existing wires and utilize existing cable tie / anchors where practical and insure the wiring does not contact moving components or hot surfaces

- 22. Connect the taillight harness to the 3 pin connector with red color coding.
- 23. Unplug the yellow wires that lead to the two taillight assemblies.
- 24. Connect NEW taillight harness red wire to the left (driver) side yellow wire and the taillight harness black wire into the right (passenger) side yellow wire.

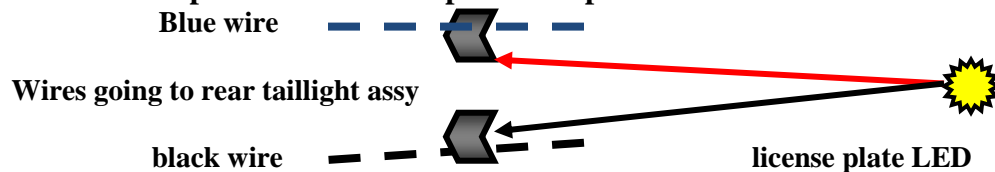
NOTE: The rear turn signal circuit utilizes the existing vehicle ground.



- 25. The plate light can be installed as one of the four license plate bolts or can be installed in the two hole adapter where the light will shine on the license plate. The plate light/2 hole adapter is secured to the license plate holder using one of the four license plate bolts.



- 26. Install the two hole adapters to the plate holder and using the two small black screws install the plate holder on the left rear of the vehicle utilizing the unused tailgate hinge screw holes.
- 27. Locate the black (ground) and blue (12 volt DC) wires leading to the rear taillight assembly and install a parallel tap connector on each wire.
- 28. Plug the red license plate wire into the parallel tap on the blue wire and black license plate wire into the parallel tap on the vehicle black wire.



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29. Once the cabling is in place, double check the routing and secure with wire ties. Bundle any extra wire and secure with the wire ties.
30. Install a parallel tap connector on the existing battery ground wire near the battery as shown.

NOTE: Check orientation of terminal to insure access for the male connector prior to seating the terminal with pliers.

31. Connect the male connector on ground wire harness long black wire to the parallel tap connector.



32. Locate the headlight switch and disconnect the connector at the rear of the switch. Carefully trim back approximately 2" of the outer cover close to the connector exposing the red (or on some models brown), yellow and blue wires.
33. Install a parallel tap connector on the existing headlight switch red (brown) wire as shown and reinstall the connector into the back of the headlight switch.
34. Plug the black fused wire into the parallel tap on the headlight switch wire. Secure all wires with wire ties.
35. Turn ON the ignition and verify horn, brake light and turn signals functions.
36. Pull the hazard switch and verify that feature functions correctly.
37. Reinstall the battery cover, engine cover and seats. Ride and enjoy!

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