

Installation Instructions for the Evolution Turn Signal System

Disclaimer: The Installation of the Evolution Turn Signals is straight forward. However, it does require a basic knowledge of DC electrical systems. We assume you possess the expertise and relevant tools to work on your machine. We also assume you have the OEM/Stock owner's manual or technical service manual for your machine. If you do not possess the skills, knowledge, or tools necessary to perform the installation of electrical and/or aftermarket parts, please see a qualified service provider.

1. Disconnect the NEG and POS battery connections from the battery.
2. Remove the turn signal cover lenses, bulbs, and reflectors from all turn signals.
 - a. Save the lenses and screws aside for reinstallation
 - b. The reflectors and bulbs will not be reused
3. Remove the evolution turn signal wire harness from the box and lay the harness out.
 - a. Route the wire harness along the motorcycle and find a suitable location for the front and rear relay.
 - i. Clean the location with alcohol or acetone and use the provided 3M Dual Lock tape to attach the relay to the location you have chosen
 - b. The front relay has the yellow trigger wire and the
 - c. The rear relay has a red trigger wire
4. Route the white turn signal wires to the turn signals.



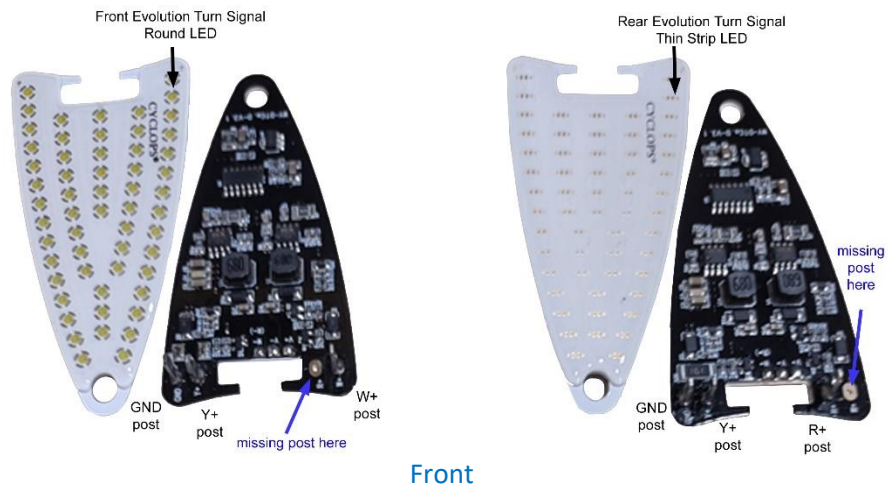
- a. The white wire should run through the same mounting hole as the factory wires. You will need to repeat the process for all turn signals.
- b. For this installation at Cyclops, we pull the factory wires out of the housing and then reinsert the factory wires with the white wire from the Cyclops relay into the turn signal housing.
- c. A small screwdriver or wire probe can be used to push the white wire from the Cyclops relay through the turn signal housing.



Note: If your stock wire connections are not insulated use the included Shrink-wrap tubing to insulate one of the stock connectors from the other.



5. Identify and attach the Evolution Turn Signals



The W+ tab on the Evolution insert attaches to the white wire from the Cyclops relay
The GND tab on the Evolution insert attaches to the OEM/Stock Ground
The Y+ tab on the Evolution insert attaches to the OEM/Stock turn signal power wire

Rear

The R+ tab on the Evolution insert attaches to the white wire from the Cyclops relay.
The GND tab on the Evolution insert attaches to the OEM/Stock Ground
The Y+ tab on the Evolution insert attaches to the OEM/Stock turn signal power wire



6. Use the securing clips in your kit to remove all play in the between the turn signal housing and the stem. This may take one or two clips depending upon the manufacture of your bike.

Use the included securing clip to attach the turn signal housing to the stem.
Depending on model of bike, one or two clips are used to secure the housing and stem.



ATTN: KTM/Husqvarna brown wire is the ground wire, that is not the case for this application

- KTM/Husqvarna brown wire will connect to Y+ tab on both front and rear boards
- Factory power wire will connect to GND tab on both front and rear boards

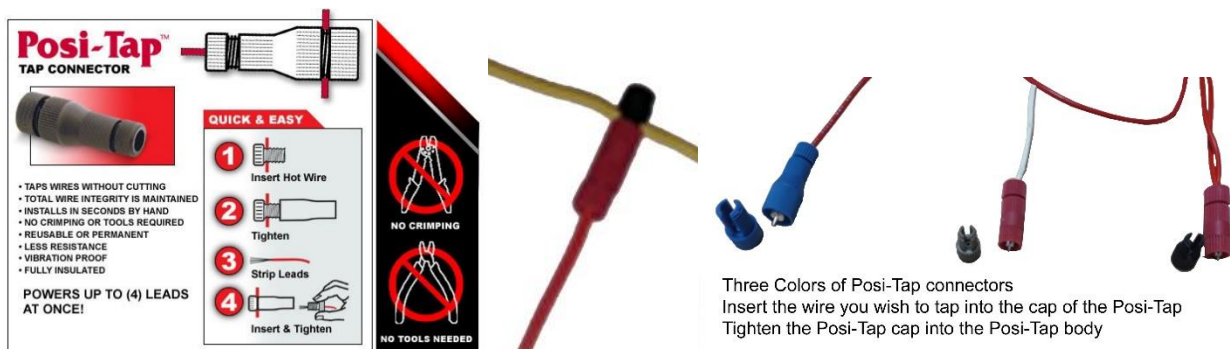
7. After all wires are routed through the turn signal housing, locate the switched power source at the front and rear of the bike.
 - If you are unsure of what wire to use, you will need to use a test light to locate a switched power wire.
8. Use the included Posi-Tap to connect the yellow wire from the front relay to a switched power source at the front of the bike.
 - Switched power source is any wire that produces power when the bikes key is turned on (ACC-2 on KTM/Husky).
9. Use the included Posi-Tap to connect the red wire from the rear relay to the switched power source at the rear of the bike.
 - Locate the taillight power wire
 - Locate the brake light power wire
 - The rear switched power source will need to be the brake light wire.
10. Reconnect the battery to the bike (connect POS first and NEG second)
 - a. Attach the POS (red) wire from the Cyclops harness and all POS terminals initially removed to the POS terminal on the battery.
 - b. Attach the NEG (black) wire from the Cyclops harness and all NEG terminals initially removed to the NEG terminal on the battery
11. Test the system.
 - a. Turn on bike
 - i. Evolution front signals will stay in white light driving mode
 - ii. Evolution rear signals will be on in taillight mode and will be red
 - b. Engage the front or rear brake with no turn signals
 - i. Evolution rear signals will brighten and serve as extra brake lights.

- c. Turn on Left or Right turn signal.
 - i. The turn signal on the side initiated will flash yellow front and rear
 - ii. The opposite turn signal will remain in driving and taillight mode. The front light will be white, and the rear will be red.
 - d. Apply the brake while signal is on
 - i. Activating the brake overrides the rear turn signal and both Evolution rear signals act as brake lights.
 - ii. Front Evolution signal will still flash yellow on the side you initiated, and the opposite side will be in white driving light mode.
12. Double check all your connections and secure the wire harness using zip ties.
- a. Ensure the wires are clear of pinch points and that they do not interfere with the steering of the motorcycle.
13. Reinstall all the lens covers to the turn signal housings.
14. Reassemble the motorcycle and you have completed the installation.

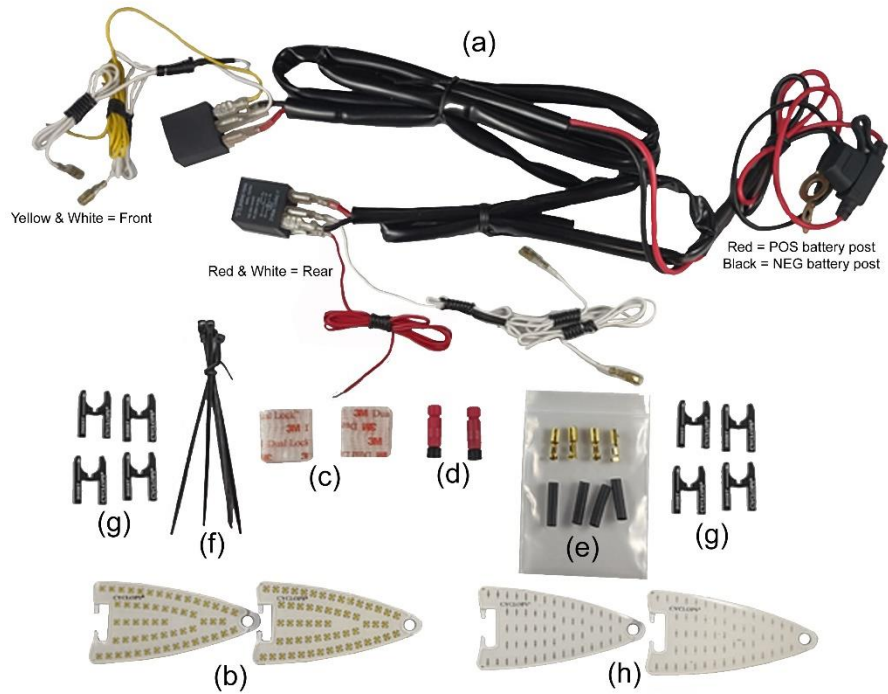
HexEzCan Canbus controller (purchased separately, optional item) Installation and set-up instructions can be found at <https://www.hexezcan.com>

- HexEzCan: Follow the HexEzCan installation and programming guide at www.hexezcan.com
- Front: The front boards will have a black lead that connects to the W+ on the board and to the corresponding port on the HexEzCan.
 - No need to run a ground wire as the grounding is done through the factory wiring.
 - Run this wire lead into the turn signal stocks as described above.
- REAR: The rear boards will have a red lead that connects to the R+ on the board and to the corresponding port on the HexEzCan.
 - No need to run a ground wire as the grounding is done through the factory wiring.
 - Run this lead into the turn signal stocks as described above and to the HexEzCan.

Posi-tap Instructions: black end = remove black cap and place over wire you wish to tap. Insert black cap back into red Posi-tap body and tighten snugly. No wire stripping is needed



Kit Contents



a	Cyclops Relayed Harness	Qty 1	f	4" wire ties	Qty 6
b	Front Evolution Turn Signal boards	Qty 2	g	Securing clips (signal housing to stem)	Qty 8
c	3M Dual Lock tape	Qty 2	h	Rear Evolution Turn Signal boards	Qty 2
d	Posi-Tap splicing connectors	Qty 2	i	HexEzCan rear board lead (optional item)	Qty 1
e	Spare bullet connectors & shrink-wrap	Qty 4	j	HexEzCan front board lead (optional item)	Qty 1

Front HexEzCan lead



Rear HexEzCan lead