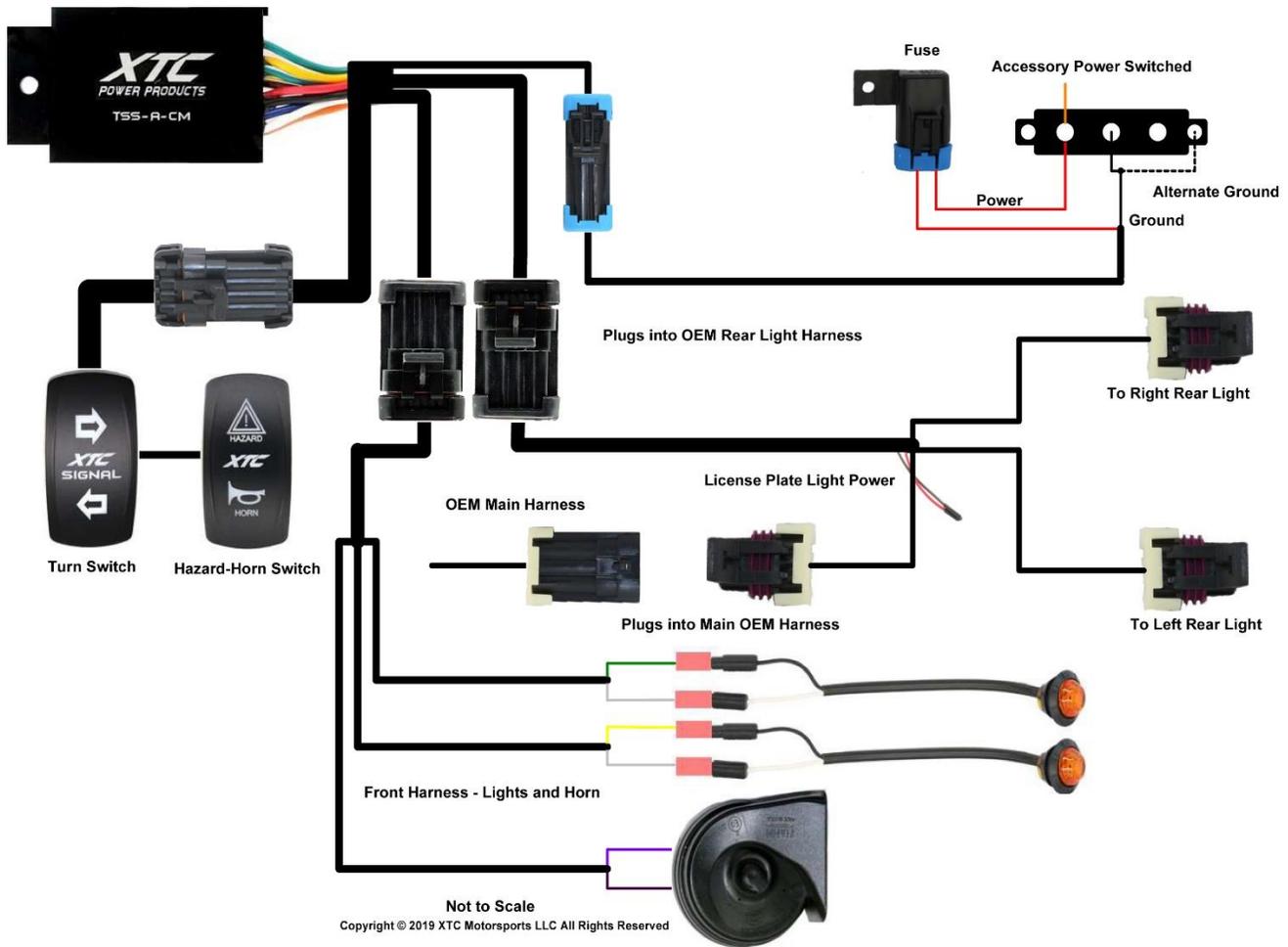




Ranger 900/1000 Turn Signal System

Thank you for purchasing XTC Power Products Automatic Self-Canceling Turn Signal System. Our Easy Install Turn Signal System is unique from the other kits on the market. This kit is from our Plug & Play™ product line, no wires to cut, no crimping with only power, ground and plugs into the OEM Tail Light Harness, utilizing the brake lights as Brake and Turn Signals.

Please read the instructions fully and familiarize yourself with the components before starting the install.



1. Remove the hood, Dash Cover, center floor inspection panel and center switch panel not shown.



2. Mount the Control Module in the dash using a self-tapping screw provided.

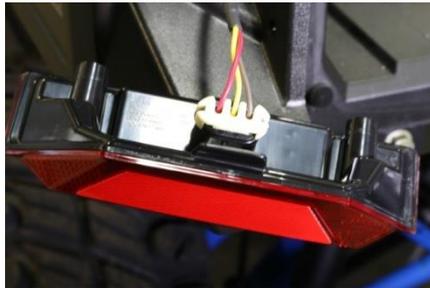


3. Remove Rear LED Tail Lights and Rear OEM Light Harness setting them aside.



4. Unroll the long Rear Harness

5. Plug the Rear Harness 3-Way connector into the rear OEM Light Harness Connector and run the Green wire with plug to the right side tail light and the Yellow wire with plug to the left tail light, use the existing cable holds to attach replacement harness. Plug in the tail lights and re-install.

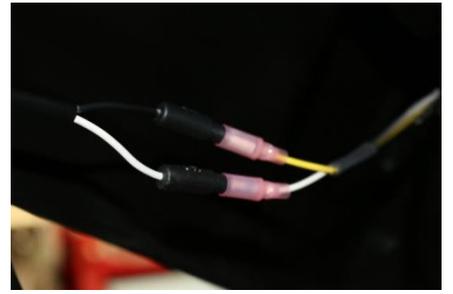


6. Run the other end of the rear harness with the 4-pin connector from the rear of the car over the OEM light harness connector down to the inside center tunnel and up the fire wall through the hole in the fire wall and plug into control module.



7. Secure rear wire harness making sure to keep it away from any hot or moving parts using the supplied cable ties.

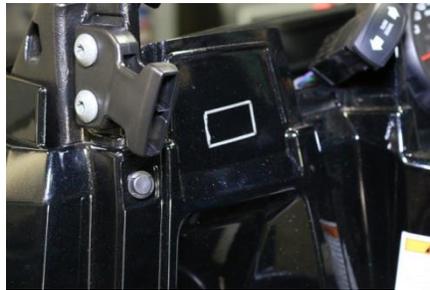
8. **WARNING! Verify that there is clearance where you want to mount the front LED lights before drilling the holes.** The front LED Turn Indicators can be mounted with the rubber grommet or without. If the grommet is **not** being used drill 5/8" holes. If the grommet is being used drill 3/4" holes. Remove and install the rubber grommet from the LED into the hole if being used. Insert LED into the hole with the Top marking up. **NOTE:** the TOP marking is on the front of the LED lens. The Lights may be mounted anywhere on the front of the car, for the sample we chose the corner of the trim because it can be seen from both the front and side of the car, use the rubber grommet as a template and mark and drill.



9. Lay the front small light harness out in the front under the hood, run the connector with the green wire to right side LED and run the connector with the yellow wire to the left side. Insert bullet connectors into LED connectors as shown above. **NOTE: The Black LED wire is positive and goes to the yellow and green wires, they will not work if reversed, white is ground. Secure the Harness using the provided cable ties.**

WARNING! Verify that there is clearance behind dash for switches.

10. Install Turn Switch. Using the provided switch template mark the rectangle. Using a new sharp razor, cut the switch rectangle out. Do not over cut, try inserting the switch and trim as necessary. Attach the switch harness to the control module and run the switch connector through the rectangle and attach to switch, insert switch in dash.



Dielectric Grease - Just like the OEM uses on their switches, we recommend using Dielectric Grease on all switch terminals, this keeps the water out, thereby reducing corrosion and helps increase reliability! Open the grease and put on the switch terminals and the connector terminals on both the Turn and Horn/Hazard switches, the more the better.



11. Install Horn/Hazard Switch - Using a new sharp razor, cut out a switch rectangle in the dash. Do not over cut, try inserting switch and trim as necessary. It helps to rock the razor to cut. Run connector through cutout and apply grease discussed above to the terminals on the Horn/Hazard switch and the connector and insert in panel.

12. Install the Horn. Remove one of the 10mm frame bolts and secure the horn using the horn mount and nut,



Connect the violet wire from the front harness to one of the horn terminals and the black wire provided to the other terminal.

13. Attach the power harness red wire to the factory Busbar accessory stud orange wire, also attach the black wire to ground. Run the other end 2-way connector to the Control Module and plug in.



(Note: The car does not have ground hooked on any of the studs under the hood unless the Bus Bar Power Up kit or Winch kit are installed, the first stud is keyed 12vdc, second stud is ground if wired and the third stud in battery direct if installed, but no fuse or circuit breaker. You must run a ground wire from the chassis to the ground stud or run our black ground wire directly to the chassis for a ground if upgrade is not installed)

14. Verify operation of all lights.

Operation: The System uses momentary switches to activate. Press Right or Left Actuator accordingly. Will cancel as follows.

Press 1 Second for Lane Change, will stay on approx. 8 Seconds / 10 Flashes

Press 2 Seconds for Slowing to Turn Corners, will stay on approx. 20 Seconds / 30 Flashes

Press 5 Seconds for Traffic Lights when stopping and waiting, will stay on approx. 75 Seconds / 110 Flashes

The Systems Automatic Self-Cancelling may be overridden/Shut Off at any time by pushing the activated switch.

Hazard Lights - press to activate and press again to deactivate, it does not self-cancel.

15. Using the provided Cable Tie's secure the harness completely.

16. Reinstall center inspection panel, center dash storage and hood.

Optional - The Tan wire next to the Turn Switch is for an optional Dash Indicator. When the ATS is activated it will flash 12 VDC that can be attached to an Optional Dash Mounted LED Light. More Information can be found at www.xtcpowerproducts.com

We can be reached by email at support@xtcpowerproducts.com

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*Disclaimer: This kit is intended for off road use only and XTC Motorsports claims no responsibility for it use. It is up to the purchaser to make sure it complies with all Federal, State and Local laws.

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