

CP1-TSL1

CANPRO Harness
for Select Tesla Vehicles

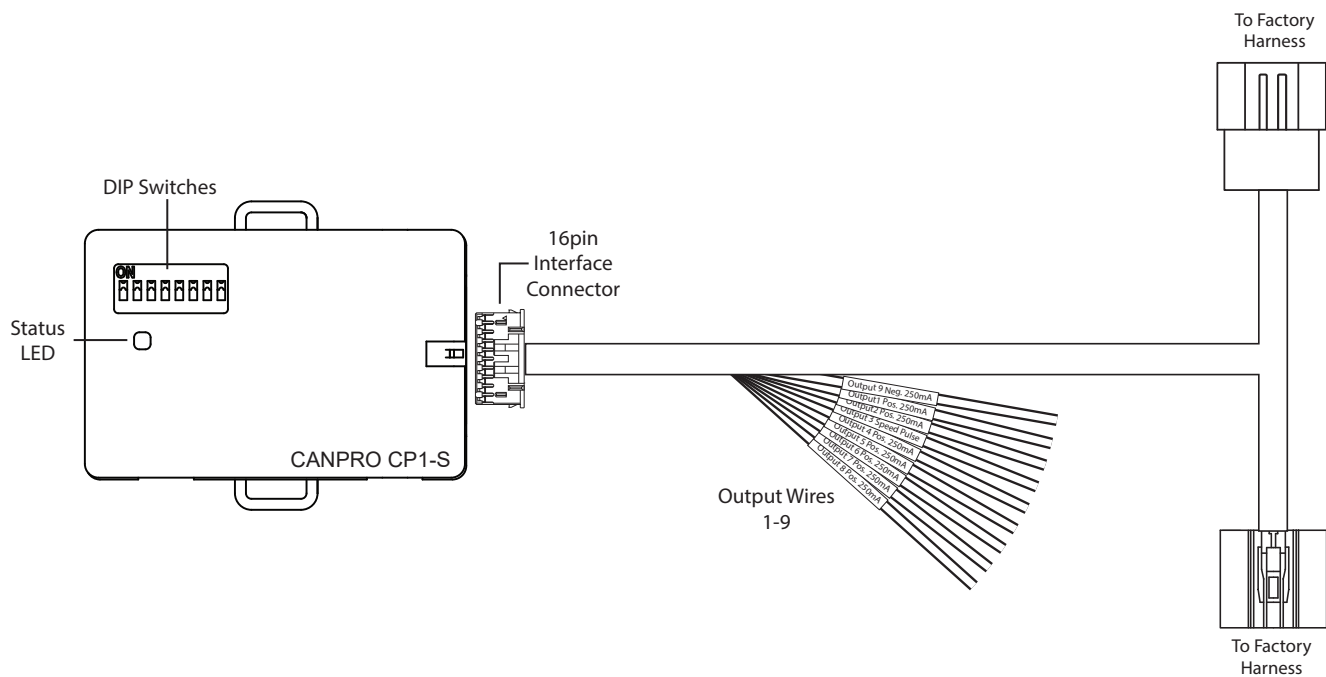
Introduction and Features

The CP1TSL1 is a factory matched plug & play harness for use with the CANPRO CP1-S CAN-Bus Interface Module for Tesla Model 3 and Model Y applications using the 26pin data harness. The harness and module allow a simple and safe way to access vehicle information, status and triggers from the CAN-Bus for a wide range of aftermarket uses such as radar detectors, camera activation, sound system upgrades, lighting and more!

Important Notes

1. Any unused outputs should be insulated to prevent shorting.
2. The outputs of the CANPRO are low current (250mA) and require the use of a separate relay if additional current is required.
3. The vehicle should be in a resting state prior to opening connection to the 26pin data harness. See Installation note for further information.

Wiring Connection Chart



Outputs

	Description	Polarity	Wire Color
Output 1	Accessory	+ Positive (250mA)	White-Red
Output 2	Illumination	+ Positive (250mA)	Blue
Output 3	Speed Pulse	Pulse	Green-Black
Output 4	Reverse	+ Positive (250mA)	Violet-Black
Output 5	Ignition*	+ Positive (250mA)	Yellow-Black
Output 6	Left Turn Signal	+ Positive (250mA)	Red-Black
Output 7	Right Turn Signal	+ Positive (250mA)	Gray-Red
Output 8	High Beam	+ Positive (250mA)	Blue-Black
Output 9	Parking Brake	- Negative (250mA)	Brown-Black

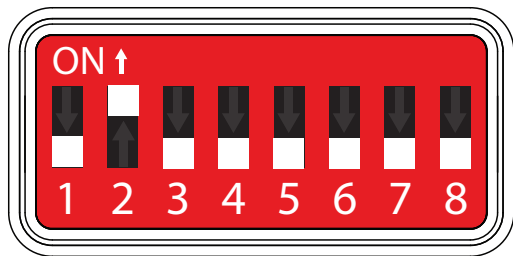
* In Electric Vehicles, Output 5 provides a positive output when the vehicle is in a "Ready to Drive" state.



Installation

NOTE! Before and during installation, ensure the vehicle is in the Power Off status (Controls > Safety > Power Off). Do not press the brake pedal, touchscreen or wake-up the vehicle until installation is complete. If the radio display turns back on prior to unplugging the 26pin data harness, repeat the Controls>Safety>Power Off cycle prior to unplugging.

1. Set the DIP switches on the CP1-S as shown in below.



2. Access the vehicle's CAN data harness by removing the panel located at the rear of the center console. (FIG A)
3. To remove the console end panel, pull out (towards rear of vehicle) along the bottom edge to release the lower retaining clips and then pull out along the top of the panel to release the upper retaining clips.
4. Ensure the vehicle is **Powered Off** (Refer to NOTE at the top of the page) and unplug the 26pin CAN data harness. (FIG A)
5. Connect one end of the CP1-TSL1 harness to the matching connector in the vehicle. Connect the remaining vehicle connector from the CP1-TSL1 to the other end of the vehicle harness. (FIG B)
6. On the passenger side of the center console, unclip the side trim panel. (FIG C)
7. Route the CP1-TSL1 16pin interface connector from the rear of the console to the passenger side of the console.
8. Determine a mounting location for the CP1-S module and connect the 16pin connector to the module.
9. Lengthen and route any Output wires needed. Insulate any unused Output wires!
10. After wire connections and testing are complete, secure the CP1-S module and reinstall the console panels.

FIG A

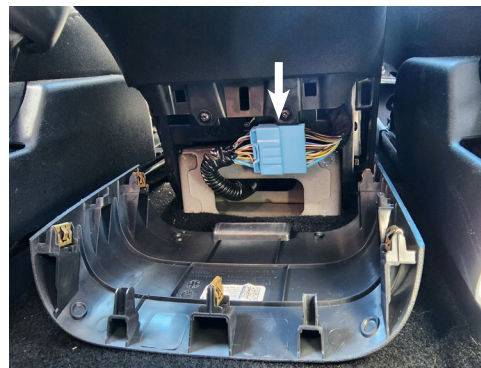


FIG B



FIG C



LED Status Information

ACTION/COLOR	Description
Fast Flashing RED	Update mode, for updating of the application or resource files.
Slow Flashing (0.5sec) GREEN	Normal Operation
Slow Flashing (0.5sec) GREEN, plus additional 0.5sec RED	System Fault. The number of times the interface flashes RED indicates the channel (output) with a fault condition. For example, if the LED flashes GREEN, then flashes RED twice, then back to Green, Channel 2 has a fault condition. To check the fault, see Troubleshooting section below.

Troubleshooting

1. No LED activity: Disconnect and reconnect the CP1-S, does the LED flash? If not, check the 3 amp fuse in the fuse-holder that is located 2 inches from the 16pin connector on the Yellow wire.
2. No Outputs: Verify the DIP switch setting is correct (Installation section, FIG A). If the DIP switch setting needs to be changed, unplug the CP1-S, change the DIP setting and then reconnect. If the LED is flashing green, test the outputs using a multimeter. If the multimeter is showing the proper output, add a relay to the output to increase current capability.
3. System Fault: Disconnect the faulty output (1-9), disconnect and reconnect the 16pin connector to the CP1-S so that it loses and gains back power and ground, does it stop flashing red? Check wiring to faulty output to make sure it is not shorted to ground, or add a relay.

Technical Support

Email: support@PAC-audio.com

Phone: 727-592-5991

Chat: PAC-Audio.com

