

SWITCH-PROS Command-Touch® CT4

For Both CT4 Module and Harness (No GPS or Lights) and
CT4 Module and Harness, plus Turn Signal & Accessory Kit (GPS & Turn signal Lights)

Overview:

The CT-4 is a self-contained programmable turn signal/switch module that is mounted on the steering column of a vehicle. It can be used as a vehicle turn signal module with two additional switched outputs to activate accessories such as a horn, light or siren. The CT-4 has a built-in audio module for an audible sound when a turn signal is active. It can also be used as a 4-Switch control module to turn on accessories, if the turn signal function is not activated. The module also has a built-in Hazard switch, which flashes all outputs in sync, when pressed. Each switch is current limited at 10A; the max current for the module is 40A.

The system is used as a stand alone and does not use the vehicle's OEM lights when utilizing the system for turn signals. If the Turn Signal/Accessory Controller kit is purchased, it will come with its own indicator LED's and harness for front and rear, left and right. The turn signal LED's are amber and 400 Lumens for excellent visibility.

For Kits with the GPS module: Turn signal cancelation is fully automatic. When driving, the module will sense when a turn is completed and will automatically shut the turn signal off.

For ALL Kits: When module is programmed for turn signals (manual or GPS), pressing the lever for less than ½ second will flash the turn signal LED 3 times for a lane change. Pressing the lever longer than ½ second will initiate the turn signal sequence. If kit is equipped with GPS, the turn signal will automatically shut off after the turn is completed. Non-GPS kits must be manually shut off.

For ALL Kits: The user will be able to program the module to the desired functions (see table below). The face of the module has 4 LED indicators showing the status of each switch output. The lever on the side of the module controls the outputs, up/down and push/pull. The Hazard switch is integrated into the module, in the lower right corner.

Programming Features

• Fully Auto turn signal mode hazard, plus two switches 10A each (Kits w/GPS)
• No turn signal mode, 4 switches (All kits)
• Manual Turn signal control hazard, plus two switches 10A each (Kits without GPS)
• Ignition or battery control; Default is Ignition (All kits)
• ON-OFF/ Momentary; Default is ON-OFF (All kits)
• Low Voltage Disconnects for each switch (All kits)
• Flash for switches; Default is OFF (All kits)
• Strobe for switches; Default is OFF (All kits)
• Output dimming; Default is OFF (All kits)
• Switch memory; Default is Off (All kits)
• Power up switch status; Default is OFF (All kits)
• Low side (ground) switch for SW3 and SW4; Default is OFF (All kits)

Programming

1. If a Turn signal mode has been programmed (All kits), using SW1 and SW2 (Up/Down), only SW3 and SW4 are available for any other programming. SW1 and SW2 programming options, for any other functions, are disabled.

Lever Switch Operation:
SW1 : PUSH UP
SW2 : PUSH DOWN
SW3 : PULL
SW4 : PUSH

STEP #	Program Mode	S1-S4 LED indicators	IGN LED	PGM LED	HAZ LED	LVD LED	BLK LED	Button Used to change status
1	Turn signal Mode AUTO GPS			ON			FLASH	Hazard
1	Turn signal OFF, 4 SW outputs			ON			OFF	Hazard
1	Turn signal Mode Manual			ON			ON	Hazard
2	Ignition/Battery	ON for Ign.	ON	ON				LEVER
3	On-Off/Mom	ON for Mom		ON				LEVER
4	Low Voltage Disconnect	ON for LVD		ON		ON		LEVER
5	FLASH function	Flashing for FLASH		FLASH				LEVER
6	Burst Strobe	STROBE		STROBE				LEVER
6	Burst Strobe OneTouch	STROBE		STROBE	STROBE			LEVER
7	Dimming	ON for Dimming		DIM CYCLE				LEVER
8	Memory	ON for Memory	ONE FLASH	ON				LEVER
9	Power Up Switch Status	2 Flashes for power up	TWO FLASHES	ON				LEVER
10	S3, S4 Low Side Switch	4 Flashes for Low side	FOUR FLASHES	ON				LEVER, S3 FWRD, S4 BACK

Programming Procedure

1. Locate the Program button (PGRM) at the bottom left of the control module. Press and hold it for 8 sec. The PGRM LED will light up. The BKR LED will flash.
 - a. **Program turn signal mode:** The BKR LED will flash, indicating the default Auto Canceling turn signal mode is active. Press the Hazard button to change the setting to turn turn

signals OFF, enabling all 4 switches for other modes. The BLK LED will turn off. Press the Hazard button again to change the turn signal mode to manual control, disabling the auto canceling feature.

2. Press the Program switch again, short press. **Program Ignition or Battery switch control**. The IGN LED will turn on solid.
 - a. Program Ignition or Battery control. All 4 switch indicators will light up indicating Ignition control for each switch. Use the switch lever to select between Ignition or battery control for each switch. Turning the switch LED indicator off will select Battery operation, meaning that the switch will operate without the Ignition On.
3. Press the Program switch again, short press. **Program ON-OFF/Momentary** for switch outputs. The PGM LED will turn on solid.
 - a. Program ON-OFF/Momentary for each switch. Default is ON-OFF. Use the switch lever to turn on the ON-OFF/Momentary function for each switch. When the switch is selected, the switch indicator LED will turn on, indicating the Momentary function has been programmed.
4. Press the Program switch again, short press. **Program the LVD** The LVD LED will turn on.
 - a. Program the LVD, low voltage disconnect. All 4 switch LED indicators will turn on, indicating that the LVD is set for each switch. Use the switch lever to select or de-select the LVD for each switch.
5. Press the Program switch again, short press. **Program Flash for switches**. The PGM LED will flash.
 - a. Program a FLASH for each switch. Default is NO flash. Use the switch lever to turn on the FLASH function for each switch. When the switch is selected, the switch indicator LED will also flash, indicating it was programmed to flash.
6. Press the Program switch again, short press. **Program Burst Strobe for switches**. The PGM LED will strobe. This will program burst strobe as a second touch of the switch, and a one-touch burst strobe.
 - a. Program Strobe and one-touch strobe for each switch. Default is NO strobe. Use the switch lever to turn on the STROBE function for each switch. When the switch is selected, the switch indicator LED will also strobe, indicating it was programmed for burst strobe. (When a STROBE or FLASH function has been programmed, the strobe or flash of the output is activated on the second push of the control lever. The first press turns the output on solid.)
A second touch of the switch lever (in programming mode) will program a one-touch strobe. The Hazard LED will also strobe, indicating the one-touch strobe was programmed.
7. Press the Program switch again, short press. **Program Dimming for switch outputs**. The PGM LED will gradually dim down to 20% then back up to 100%(if possible) and cycle.
 - a. Program dimming for each switch. Default is NO dimming. Use the switch lever to turn on the DIMMING function for each switch. When the switch is selected, the switch indicator LED will turn on, indicating the dimming function has been programmed.
8. Press the Program switch again, short press. **Program MEMORY** for each switch output. The PGM LED will turn on solid and the IGNITION LED will flash once.

- a. Program MEMORY for each switch. Default is NO memory. Use the switch lever to turn on the memory function for each switch. When the switch is selected, the switch indicator LED will turn on, indicating the MEMORY function has been programmed.
9. Press the Program switch again, short press. **Program Power Up Switch Status** for each switch output. The PGM LED will turn on solid and the IGNITION LED will flash two times.
 - a. Program Power Up Switch Status for each switch. Default is OFF at power up. Use the switch lever to turn on the power up switch status function for each switch. When the switch is selected, the switch indicator LED will flash twice, then pause, then repeat, indicating the power up switch status function has been programmed.
10. Press the Program switch again, short press. **Program Low Side Drivers** for S3 and S4 switch output. The PGM LED will turn on solid and the IGNITION LED will flash 4 times.
 - a. Program Low side drivers for switches S3 and S4. Default is OFF. Use the switch lever to turn on the Low side Drivers for S3 and S4. When the switch is selected, the switch indicator LED will flash 4 times, then pause, then repeat, indicating the low side driver function has been programmed.
11. Press the Program switch again, short press. This will exit the programming of the CT4. All LED's will flash two times.
12. To exit Programming mode, at any time, press and hold the programming switch for 5 seconds. All previous setting changes will be saved.

Installation

1. Disconnect the vehicle's negative terminal on the battery.
2. Install the CT4 module on the steering wheel column using the vehicle appropriate bracket. Note that various vehicle models have unique steering wheel columns, and we offer vehicle specific brackets. Since 1.5" is a common size, we offer that clamp in our Universal mounting kit.
3. Plug the 12-pin connector into the module and route the harness into the dash. Use the P-Clamp to secure the harness and make sure there is enough play in the harness for telescoping steering columns.
4. Locate an appropriate location under the dash to place the end of the harness where the front and rear light harnesses will plug in.



Polaris Pro R and XP



Universal, Polaris and Speed UTV



CanAm Maverick R



CanAm X3

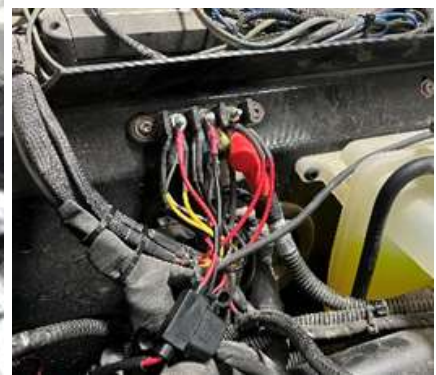
5. Connect the Ignition and Ground. This will be the harness with the black connector. For Can locate the 12V accessory plug located under the center dash and plug in the CanAm specific IGN/GND harness. For Polaris Pro R, locate the Pulse Bar and plug in the Polaris specific harness into one of the empty positions. Polaris Turbo S and others, use the universal IGN/GND harness, and connect the ¼" lugs to a good ground and a 12V switched Ignition source.



CanAm Accessory Conn.



Polaris Pulse Bar



Polaris Turbo S & Universal

6. Connect the 12V power connection to the positive battery terminal or 12V power stud which is usually located at the front of the vehicle. This connection will provide the main power for the unit, 40A total, 10A per switch.

The Next steps apply only to the Kits with GPS:

7. Install the GPS sensor to the very front of the vehicle under the plastic hood. The GPS sensor must be mounted on a level surface with the label facing up. **It cannot be obstructed by my any metal.** Orientation does not matter. **Keep the sensor dry, do not pressure wash!**
8. Plug in the turn signal harness to the Command-Touch® Harness. Run the 3' section to the front of the vehicle. Drill two ¾" holes in the front fenders to mount the front turn signal LED's. Remove the grommet from the turn signal LED, pulling it back onto the harness. Feed the LED through the drilled hole. Place the grommet in the drilled hole, then pull the LED into the grommet. Locate a good place for the horn and secure it using the supplied bracket. Then plug the front turn signal harness into the main harness and connect the horn; polarity does not matter. Run the 15' section to the rear of the vehicle. On most vehicles, it is best to run it through the center tunnel. Drill two ¾" holes in the rear to mount the rear turn signal LED's. Remove the grommet from the

turn signal LED, pulling it back onto the harness. Then feed the LED through the drilled hole. Place the grommet in the drilled hole, then pull the LED into the grommet. Then plug the rear turn signal harness into the main harness.

9. Mount the License plate frame to the rear of the vehicle. Most CanAm vehicles will have a stock bracket for a license plate. Use the supplied hardware to mount the plate. For Polaris Pro R use the vehicle specific kit license plate bracket and mount it to the rear left side of the vehicle. See figures 1 and 2 for attaching the frame to the Pro R bracket, using the supplied hardware. Once installed, plug the license plate frame light connector into the harness. The plate will automatically illuminate when the ignition is turned on.



Figure 1.



Figure 2.

Command-Touch® Wiring Diagram

