

# **LINGENFELTER**

**P E R F O R M A N C E   E N G I N E E R I N G**

## **TPS Activation Switch Instructions For Installation On 2008-2010 Corvette and 2010 Camaro SS Clutch Pedal Position Sensors**



**PN: NO-00-6102**

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## Parts List

#	Part number	Description
1		TPS Activation Switch
2		3M Scotchlok T-Tap
3		crimp butt connector, 18-22 gauge
2		blade type connector
1		ring terminal

## Tool List

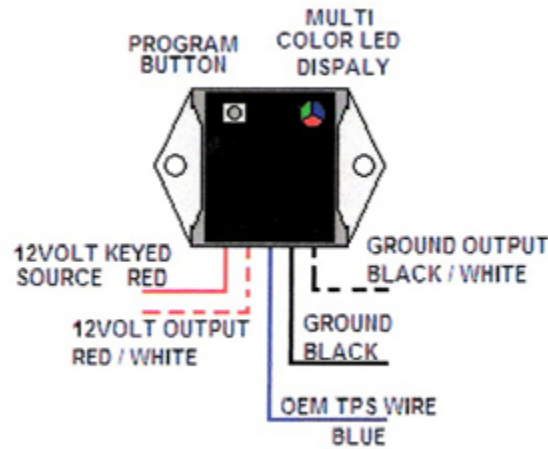
#	Part number	Description
1		wire stripping tool
1		wire connector crimping tool
1		wire cutters
1		wire shrink wrap or electrical tape
1		mounting screws or hook & loop tape
1		Zip ties

### Usage notes on 2008-2010 Corvette clutch switch or 2010 Camaro SS clutch switch:

- The clutch switch used on the 2008-2010 Corvette and the 2010 Camaro SS is actually a clutch position sensor that outputs clutch position as a 0 to 5 volt output.
- Similar to some throttle position sensors (TPS), the output of the clutch position sensor goes from high to low with the voltage being roughly 4 volts with the clutch pedal up and roughly 1 volt when the clutch pedal is depressed.
- Because the clutch position sensor is no longer a 12 volt switched output position switch, it can't be directly used to trigger devices like the LNC-002 or LNC-003. The low voltage output and the reverse logic of the voltage output of the position sensor also means that it can't be used to trigger most relays.
- This TPS Activation Switch allows you to connect to the clutch position sensor and trigger other devices using a ground and/or 12 volt output.
- Because the TPS Activation Switch is programmable, you can also use it to select where in the clutch travel you want the external device to be activated (or de-activated, depending on the device and the wiring method).

### Installation on 2008-2010 Corvette or 2010 Camaro SS clutch position sensor:

- The clutch pedal position sensor on the 2008-2010 Corvette and the 2010 Camaro is found in the clutch pedal assembly in the footwell of the driver side of the vehicle.
- See page 4 for images showing the location of the clutch position sensor in the clutch pedal assembly and for the connector wiring information.



### NO-00-6102 TPS Activation Switch

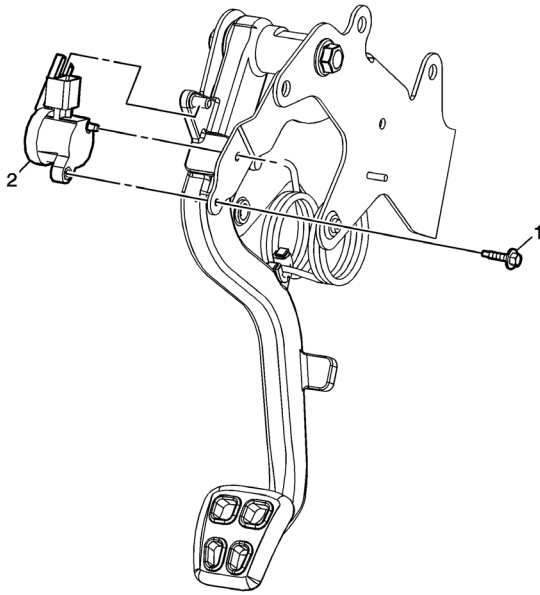
- The blue wire from the TPS Activation Switch (TAPS) needs to tie into the sensor signal wire on pin B of the clutch pedal position sensor connector (dark blue on the Corvette and yellow on the Camaro).
- The solid red wire from the TAPS needs to be connecting to 12v switched ignition voltage
  - In most applications you will want this to go through an arming switch.
  - A 12v switched connection can usually be found in the driver or passenger footwell fuse and relay centers
  - On the 2010 Camaro the accessory outlet (cigarette lighter) connector can be used as a source for 12v switched power. The green wire to terminal A of the accessory connector is the 12v switched wire.
- The solid black wire from the TAPS needs to be connected to a chassis ground.
  - On the 2008-2010 Corvette a chassis ground exists in the passenger footwell kickpanel.
  - On the 2010 Camaro a chassis ground exists on either side of the center console behind the dash support panels.
- The TPS Activation Switch has two output wires:
  - The black/white wire grounds when the TAPS is activated. This would connect to the green wire on the LNC to activate the LNC.
  - The red/white wire applies 12v when the TAPS is activated. This would connect to the yellow wire on the LNC to activate the LNC.

- LNC-002 and LNC-003 related installation notes:
  - For connecting the TAPS to the LNC-002 or LNC-003, either activation method can be used. All of the wiring diagrams supplied with the LNC-002 and LNC-003 show using a 12v activation trigger. This is done because 12v activation problems are usually easier to trace and diagnose than ground activation problems. If a wire has missing insulation and touches to ground you may not be able to easily tell. If a 12v wire shorts to ground it will usually blow a fuse or some other similar indicator of a problem.
  - Do not use both methods at the same time on the LNC. You must use one or the other, not both.
  - The TAPS output not being used for the LNC can be used to activate another device since both TAPS outputs can be used at the same time.
- Once you have connected the TAPS to the position sensor wires, mount the TAPS in a location that will not impact the travel of any of the pedals.
- Route the wires so that they don't impact the travel of the pedals and secure the TAPS and the wires properly so they can not fall down and impact proper pedal travel.
- To program the TPS Activation Switch once you have connected it to the clutch position sensor follow the standard TAPS instructions except, instead of going to wide open throttle (WOT) and driving around to set the activation point, you want to depress the clutch pedal to the position you want to have the TAPS activate at. You can do this with the engine on or off as long as the ignition is on. You do not need to drive the vehicle around to perform this programming on the clutch position sensor.
  - As noted in the TAPS instructions, keep in mind that the TPS Activation Switch will activate at 95% of what ever position value you set so it will trigger at slightly less pedal travel than what you have programmed.

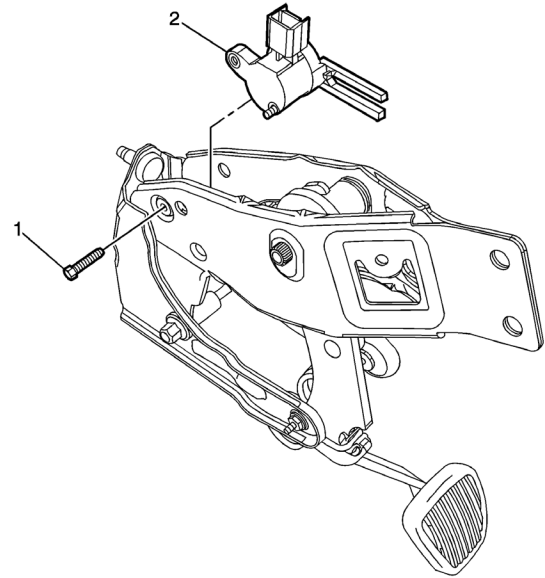
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## PERFORMANCE ENGINEERING

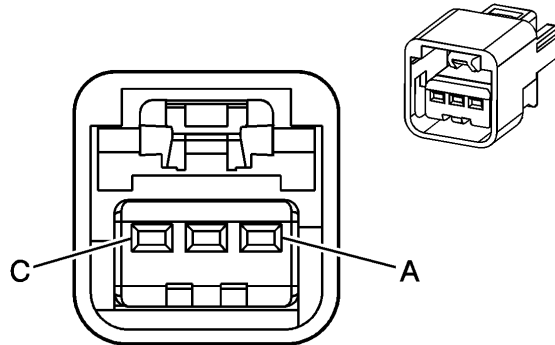
2008-2010 Corvette clutch position sensor location



2010 Camaro clutch position sensor location



2008-2010 Corvette & 2010 Camaro clutch position sensor connector end view



2008-2010 Corvette Clutch Pedal Position (CPP) Sensor (MM6/MZ6/MN6)			
Pin	Wire	Circuit	Function
A	0.35 D-GN/WH	6294	Low Reference
B	0.35 D-BU	6306	Clutch Pedal Position Sensor Signal
C	0.35 D-GN	6293	5-Volt Reference

2010 Camaro B25B Clutch Pedal Position Sensor (MV5 or M10)			
Pin	Wire	Circuit	Function
A	0.35 TN	6109	5-Volt Reference 1 (MV5) 5-Volt Reference 2 (M10)
B	0.35 YE	6111	Clutch Pedal Position Sensor Signal
C	0.35 WH	6110	Low Reference

**For additional product installation information and technical support, contact LPE or your LPE products distributor. You can also find technical support and usage discussions regarding this product and many other LPE products in our Internet forums:**

**<http://www.lingenfelter.com/LPEforumfiles>**

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