

## Calibration Of The CC30E & LT42E Throttle Position Sensor (TPS) For GEN 1 VCM & GEN 2 VCM

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### IMPORTANT:

Use Figure 1 on Page 1 and Figure 2 on Page 2 for identifying which VCM (GEN 1 VCM or GEN 2 VCM) your Cub Cadet CC30E or LT42E has before proceeding to the Calibration procedures.

The GEN 1 VCM buttons are shown in Figure 1.

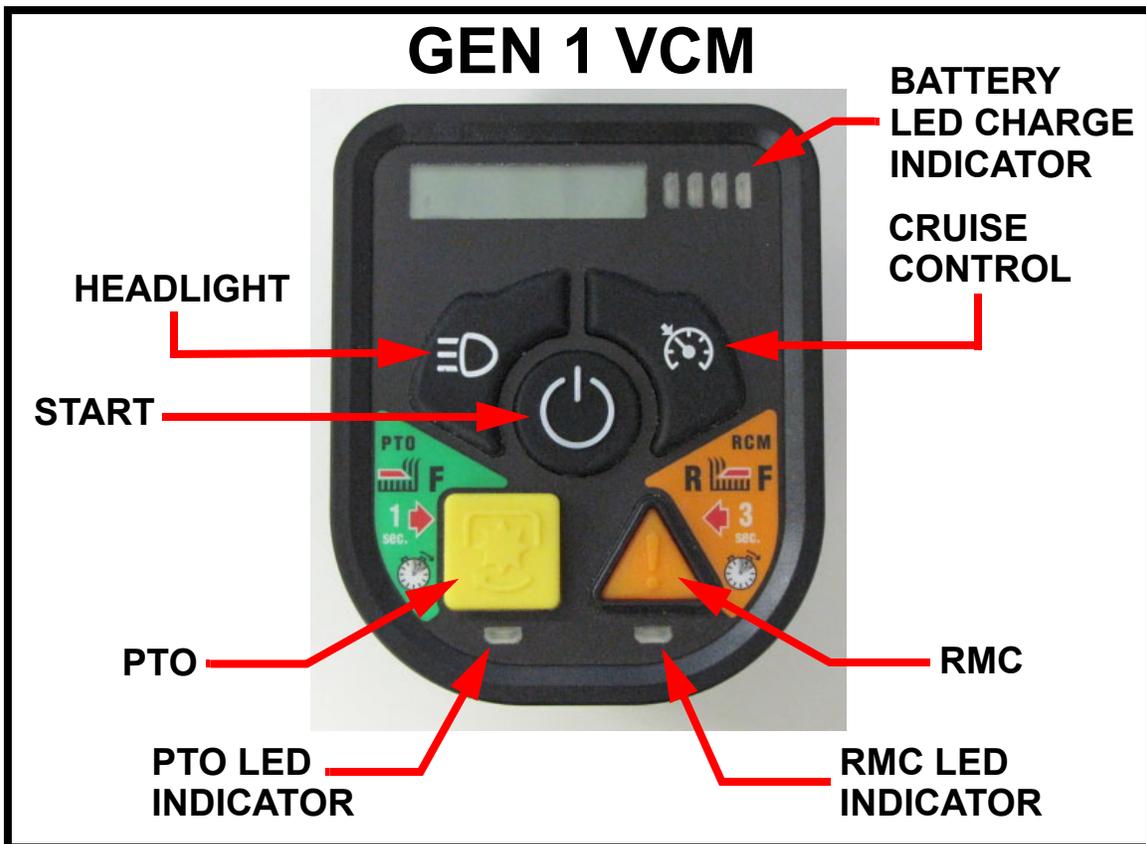
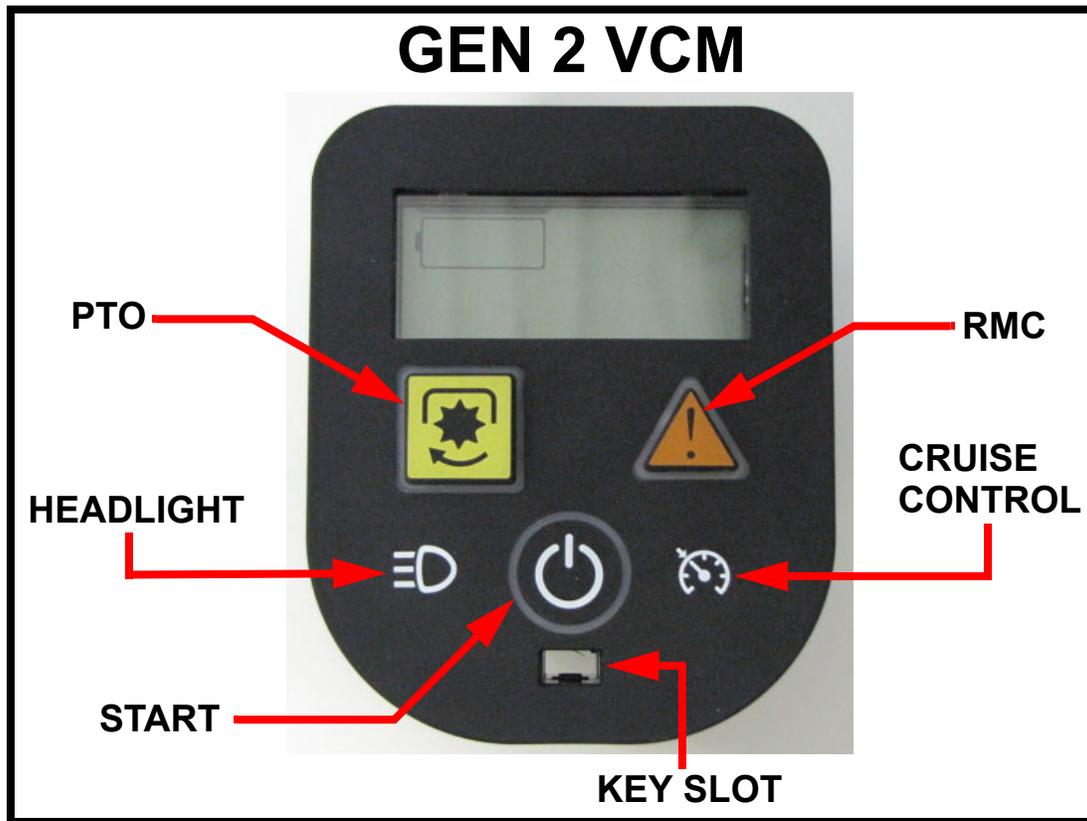


FIGURE 1

Proceed to Page 3 for the GEN 1 VCM Calibration procedures.

The **GEN 2 VCM** buttons are shown in Figure 2.



**FIGURE 2**

Proceed to Page 4 for the **GEN 2 VCM** Calibration procedures.

## Calibration Of The GEN 1 VCM

**IMPORTANT:** The Brake must be released. **DO NOT** touch the brake pedal during any of the calibration procedures.

### Step 1:

#### TPS Calibration

- The TPS must be calibrated every time that the:
- VCM is replaced.
- TPS is disconnected.

### Step 2:

#### TPS Calibration

- Move the Key Switch to the "OFF" position.
- Hold down the Reverse Caution Mode (RMC) and the Headlight buttons while turning the Key Switch to the "ON" position.
- Continue to hold the Headlight and RMC buttons down until the red RMC LED illuminates.



### Step 3:

#### TPS Calibration

- **NOTE: New VCM's will be in calibration mode until they are calibrated for the first time.**
- Let go of Headlight and RMC buttons.
- The RMC LED should be on.



### Step 4:

#### TPS Calibration

- Press the Forward Drive Pedal down until it hits a hard stop.
- Press and release the Cruise Control button.
- Release the Drive Pedal.



### Step 5:

#### TPS Calibration

- Press the Reverse Pedal down until it hits a hard stop.
- Press & release the PTO button.
- Release the Reverse Pedal.
- Without touching any of the drive pedals, press the Start button.



### Step 6:

#### TPS Calibration

- To save and exit the Calibration Mode, press the Mow in Reverse and Headlight buttons simultaneously.
- The PTO and RMC LED's should turn off.
- Turn the Key "OFF"
- Test drive the mower in a safe area before returning it back in to service.



## Calibration Of The GEN 2 VCM

**IMPORTANT:** The Brake must be released. **DO NOT** touch the brake pedal during any of the calibration procedures. The GEN 2 VCM (625-06950) will Not save a calibration input if the Brake Pedal is depressed.

1. Begin Calibration of the **GEN 2 VCM (625-06950)**.
  - Insert the key into the VCM.
  - Chock the rear wheels.
  - A new VCM is shipped in calibration mode as seen in Figure 1.
  - To place a VCM in calibration mode, press and hold the RMC and Headlight Buttons for 7 seconds until the F N R icons show on the screen as in Figure 1.



**FIGURE 1**

**NOTE: The Following Sequence MUST be met for Correct Calibration.**

2. Slowly Press the Forward Throttle Pedal until it stops.
  - Press the Cruise Button.
  - "F" will be boxed in. See Figure 2.



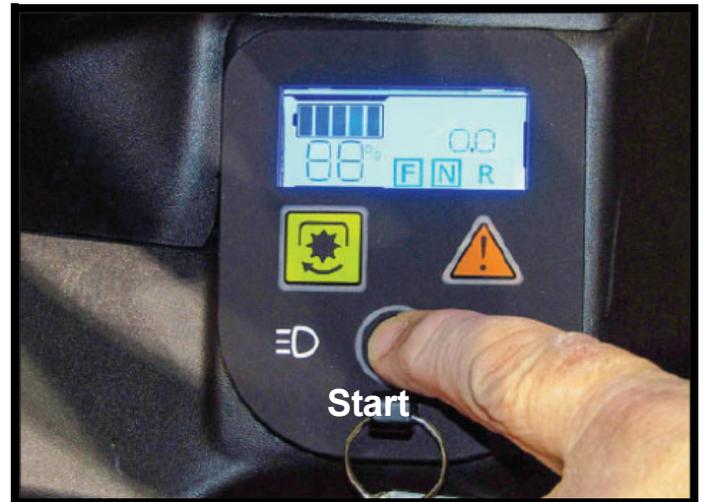
**FIGURE 2**

**NOTE: The GEN 2 VCM will Not save a calibration input if the brake pedal is depressed.**

3. Release the Forward Throttle Pedal.
 

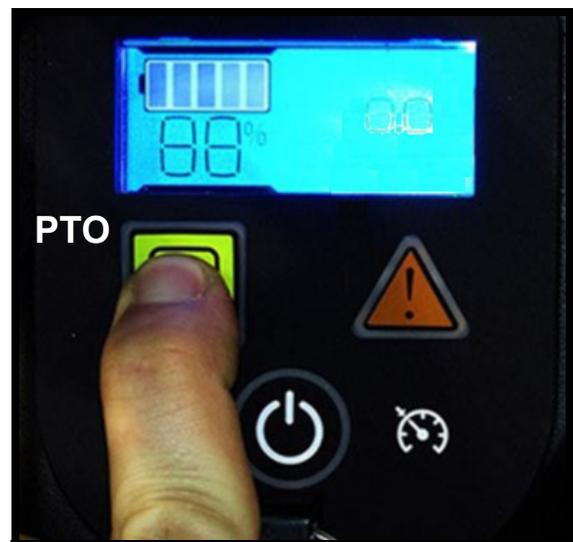
**NOTE: Both pedals must be released and in the neutral position.**

  - Press the Start Button and release.
  - "N" will now have a box around it. See Figure 3.



**FIGURE 3**

4. Slowly Press the Reverse Throttle Pedal until it stops.
  - Press the PTO Button and release.
  - The VCM screen will change to the Start Screen. This indicates the calibration has been updated. See Figure 4. This completes the calibration process.



**FIGURE 4**

**NOTE: If the PTO button is held longer than 7 seconds an E107 error code will appear. Restart the calibration process from Step 1.**

7. Start the rider, test & confirm all operating features work properly and as designed. Return rider back in to service.