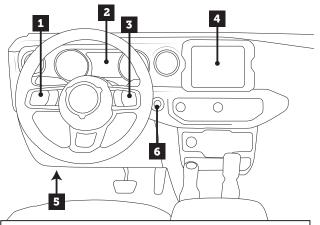


USER GUIDE

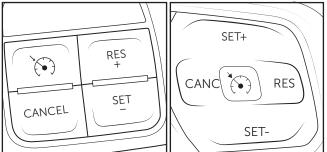


- 1. INSTRUMENT CLUSTER DISPLAY CONTROL BUTTONS
- 2. INSTRUMENT CLUSTER DISPLAY
- 3. CRUISE CONTROL BUTTONS
- 4. STEREO DISPLAY
- 5. OBDII PORT
- 6. ENGINE START/STOP BUTTON

NOTE: If working with a vehicle that still has the STOCK instrument cluster, stereo display and cruise control but look different from above. there steps will still apply but pictures in these instructions may differ from your physical parts.

Cruise Control Layout

4-BUTTON CRUISE 5-BUTTON CRUISE



NOTE: It is important to reference your respective cruise control button layout throughout this booklet when programming your ProCal.

OVERVIEW

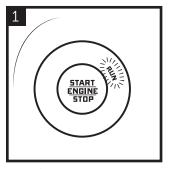
The AEV ProCal SNAP is a simple, easy to use electronic recalibration module for Jeep JL Wrangler, Gladiator and RAM Trucks. ProCal SNAP has the ability to recalibrate your vehicle's speedometer to compensate for non-factory tire sizes, replacement axle gear ratios and aftermarket or different transfer case gear ratios by simply plugging into the OBDII diagnostic port and inputting the numerical values using the stereo's audio equalizer.

PLEASE read these instructions completely before attempting to use this module. Follow these order of operations:

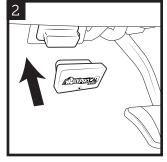
- Install the included AEV ProCal Harness using instructions from aev-conversions.com.
- 2. Pair ProCal SNAP to the vehicle.
- 3. Recalibrate vehicle with ProCal SNAP

NOTE: The ProCal SNAP does not record the changes into your vehicle's history with Stellantis/FCA/Jeep. Any Waranty or Recall that requires a re-programming of the modules may erase the ProCal SNAP settings and require you to use 7 the ProCal SNAP to adjust your settings again.

PAIR PROCAL SNAP TO VEHICLE

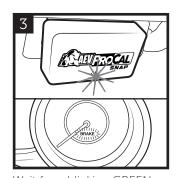


Press 2 times to put into the "RUN" position.



Insert ProCal SNAP into the OBDII port.

NOTE: The ProCal SNAP must be paired to a vehicle before it will recalibrate any settings. Once completed, the ProCal SNAP will be **permanently locked to this vehicle.**



Wait for a blinking GREEN light on the SNAP and a blinking BRAKE light on the speedometer.



With your foot on the brake, PRESS and HOLD the CRUISE ON/OFF button until the vehicle honks.

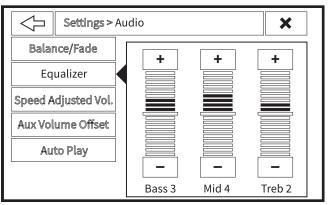
HONK! HONK! When the pairing process is complete, the horn will sound quickly 3 times. Your ProCal SNAP is now paired and ready to recalibrate your vehicle.

SETTING EQUALIZER

Adjust the stereo's EQUALIZER SETTINGS to the values you wish to set (be sure the stereo source is set to AM/FM).

Always enter the values in order: Bass, Mid, Treb.

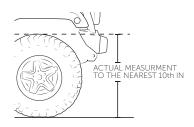
• Example: 34.2" Tires, Bass = 3, Mid = 4, Treb = 2.

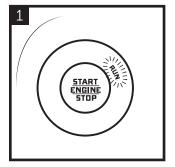


UCONNECT 4 and 4C

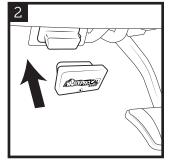
EXAMPLE: TIRE SIZE

To recalibrate Tire Size: Begin by physically measuring your tire diameter IN INCHES from the ground to the top of front tire with the vehicle level and on the ground.





Press 2 times to put into the 7"RUN" position.



Insert ProCal SNAP into the OBDII port.



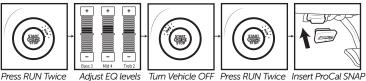
Wait for a solid GREEN light on the SNAP.

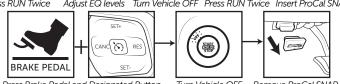
4 Set the EQ values for the tire size (Example: 34.2" Tires, Bass = 3, Mid = 4, Treb = 2.). Press the combination below. PRESS and HOLD for 3 SECONDS. Programming is complete when the horn sounds twice. Unplug ProCal SNAP and store in vehicle.



^{*}During Programming: If the BRAKE INDICATOR flashes during programming, immediately release the BRAKE PEDAL. Failure to release in time may cause errors and warning lights. To resolve, try programming again paying attention to the pedal and indicator.

PROGRAMMING STEPS





Press Brake Pedal and Designated Button

Turn Vehicle OFF Remove ProCal SNAP

NOTE: Programming some features will require the user to release the programming buttons. If the "BRAKE" light flashes quickly, release any buttons and switches, the module will finish and honk the horn quickly.

TIRE SIZE Example: 34.2" Tires Bass: 3 Mid: 4 Treb: 2

When setting Tire Size, use the measured size, not the rated size written on the tire.



AXLE RATIO Example: 4.10:1 Axle Bass:4 Mid: 1 Treb: 0

The physical ratio of gears in your differential. Do not modify unless you have changed gears. **Note for 4xe owners:** Do not program gear ratios over 4.50:1 even if your physical ratio is larger.



PSI Example: 32 PSI Bass: 0 Mid: 3 Treb: 2

Indication light shuts off at this value, and will turn on when one tire is 75% of this value. *For JL Wranglers and Gladiators*: 28-50psi. *For RAM Trucks*: The Procal Snap for RAM can only set values of 35, 45, 60, 65, 80, 95 psi, trying to set a number in between will round up to the next approved value.

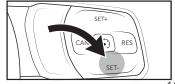


NOTE: It is imperative that you inflate to and set your PSI value to the pressure rated on the sidewall of the tire itself.

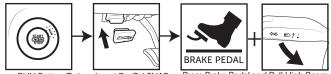
T-CASE Example: 3.80 T-Case Bass: 3 Mid: 8 Treb: 0

ONLY FOR JEEPS

The physical ratio of gears in your Transfer Case. Do not modify unless you have replaced the transfer case.



ADDITIONAL FUNCTIONS

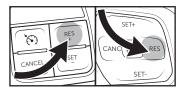


Press RUN Button Twice Insert ProCal SNAP

Press Brake Pedal and Pull High Beam

CLEAR DTC CODES

To clear DTC Codes, follow steps above. In combination with the last 2 steps press RES.



RESTORE FACTORY SETTINGS

To Restore Factory Settings, follow steps above. In combination with the last 2 steps press Cruise ON/OFF.



VIEW SETTINGS

If you wish to view the current settings, you can do so on the Instrument Cluster Display. Insert the ProCal SNAP into the OBDII port. Turn the radio off and use the Instrument Cluster Display Control Buttons to navigate to AUDIO. The Instrument Cluster Display will cycle through showing the current setting for Tire Diameter, Axle Ratio, Tire Pressure Threshold (Front and Rear), 4Low Ratio and the ProCal SNAP part Number.



NOTICE FOR 4XE OWNERS

Note: The 4xe model of Wranglers has some unique characteristics. Please be aware of the following issues:

- Do not program an axle ratio value higher than 4.50 regardless of actual gears. This is a workaround to inherent conditions in the transmission control systems
- The 'check engine light'/Malfunction Indicator Lamp (MIL) may be on after programming. These errors should clear themselves after time. Or use SNAP's "Clear Codes" function to remove these error indications immediately.

DIAGNOSTIC CODES

- **BLINKING GREEN:** ProCal SNAP ready to pair
- SOLID GREEN: ProCal SNAP paired and ready
- SLOW PULSING ORANGE: Waiting for vehicle ignition to be turned to RUN.
- SLOW PULSING BLUE: Inserted into incorrect vehicle.
- FAST PULSING ORANGE: No connection. Check that the harness is properly installed.
- FAST PULSING BLUE: There has been an error in programming. Turn the radio off. Use the Instrument Cluster Display Control Buttons to navigate to AUDIO. Record the error message and contact AEV support with the information shown.

TROUBLESHOOTING

Q: My ProCal on my RAM 2023+ is timing out.

A: Sometimes the ProCal will time out in between setting changes. On RAM 2023+ it is good practice to cycle the RUN position on your vehicle for the ProCal to properly work. Use the following cycle to ensure proper programming: RUN on, Change Equalizer Settings, RUN off, RUN on, ProCal in, Press and hold respective cruise control combination, RUN off, ProCal out. Repeat this process for every setting you change.

Q: No light on the ProCal SNAP.

A: Contact Support

Q: The light was solid green, I attempted to program something, Three was no honk and now the ProCal SNAP has a fast pulsing blue light

A: Turn the radio off. Use the instrument Cluster Display Control Buttons to navigate to AUDIO. Record the error message and contact AEV Support with the information shown.

Q: What if I don't have a factory stereo?

A: We have not yet encountered an aftermarket stereo head unit that is compatible with the ProCal SNAP.

AEV Customer Support: (248) 926-0256

Email: tech@aev-conversions.com



AEV-CONVERSIONS.COM