

#### USER GUIDE | RAM TRUCK

AEV30410AA



- INSTRUMENT CLUSTER DISPLAY CONTROL BUTTONS
  INSTRUMENT CLUSTER DISPLAY
  CRUISE CONTROL BUTTONS
  STEREO DISPLAY
  OBDII PORT
- 6. ENGINE START/STOP BUTTON

### OVERVIEW

The AEV ProCal SNAP is a simple, easy to use electronic recalibration module for Ram Truck. 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:

- 1. 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 FCA/Jeep. Any Warranty or Recall that requires a re-programming of the modules may erase the ProCal SNAP settings and require you to use 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 for 3 SECONDS.

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- HONK! 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)**.

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

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



UCONNECT 4 and 4C

Note that some stereos display EQ horizontally with Bass at the bottom. It is important to remember all settings must be entered in the correct order, Bass, Mid, Treb.



UCONNECT 3

### 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.







Insert ProCal SNAP into the OBDII port.



Wait for a solid GREEN light on the SNAP.

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- 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.



BRAKE PEDAL

RES +

FUNCTION	DESCRIPTION
TIRE SIZE	When setting Tire Size, use the actual height measurement, not the rated size.
AXLE RATIO	The physical ratio of gears in your differential. Do no modify unless you have changed gears.
TPMS	Indication light shuts off at this value, and will turn on when one tire is 75% of this value. The Procal Snap for RAM can only set values of 35, 45, 60, 65, 80, 95psi, trying to set a number in between will round up to the next approved value.*

\* On RAM Trucks it is imperative that you inflate to and set your TPMS value to the pressure rated on the sidewall of the tire itself!"



**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.

## ADDITIONAL FUNCTIONS

To use ProCal SNAP to clear DTC codes or restore your vehicle's factory settings, follow programming steps 1 and 2 then PRESS/PULL and the combinations below and HOLD for 3 SECONDS.

#### CLEAR DTC CODES







BRAKE PEDAL

PULL HIGH BEAM

AM

RES

RESTORE FACTORY SETTINGS







#### CRUISE ON/OFF

### VIEW SETTINGS

To view the current settings in your vehicle on the Instrument Cluster Display:

- Insert the ProCal SNAP into the OBDII port
- Use the Cluster Display Control Buttons (arrow buttons) to navigate to the AUDIO setting on the Instrument Cluster Display.
- Depending on the vehicle and radio combination, either: turn the radio off or set the radio to AM

The Instrument Cluster Display will cycle through showing the current settings in your vehicle. These include Tire Size, Axle Ratio, Tire Pressure Threshold (Front and Rear), and the Procal SNAP part number.

### 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:** No light on the ProCal SNAP.

A: Contact Support.

**Q:** The light was solid green, I attempted to program something, there 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:** Contact AEV support, some aftermarket radios could still function properly. We'll be able to advise you before trying.

AEV Customer Support: (248) 926-0256 Email: tech@aev-conversions.com



# A E V - C O N V E R S I O N S . C O M

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