

General

What is Anteater?

The Anteater is a controller for the 47-series and 48-series (618) Chrysler transmissions, taking the place of a factory PCM, and gives total control over the transmission's shift patterns. The main controller is contained in a weatherproof enclosure intended for severe agricultural use and the wiring meets or exceeds OEM specifications. It also includes an in-cab wired remote that allows the end user to disable overdrive as well as choose between three separate tunes.

Who should use an Anteater?

Anyone who needs a fully electronic, standalone control solution for the 47 or 48-series Dodge transmission. The Anteater does not need any specialized valvebody hardware and is designed to work with any standard valvebody.

What transmissions does Anteater support?

47RH, 47RE, 48RE transmissions are all supported. All RE transmissions need to have the late-style (2000+) valvebody harnesses. If you have the square plastic 4-pin pressure transducer, that's the correct sensor. Please note 47RH support is limited to torque converter lockup and overdrive control. All 47RH units are done on a custom basis; contact with Firepunk is required before purchase.

How many customizable shift tables does Anteater have?

The Anteater has three (3) main shift tune tables. Each table stores 1-2, 2-3, OD (overdrive) off, OD on, lockup off and lockup on data. Each shift tune may be selected on the wired remote.

How is Anteater different from its competitors?

The Anteater can be used with any valvebody and is not limited by needing a specific valvebody. Over three years of daily testing were used to develop the Anteater so that "it just works when you plug it in". The Anteater also adds functionality over existing lockup controllers on the market due to its tightly integrated TPS and temperature compensation. Customers in toasty Florida have the same driving results as customers in frigid Alberta.

Installation

What's in the package?

The Anteater's packaging contains a housing for the controller, the electrical harness and a wired remote.

How do I connect my Windows laptop to the Anteater?

The remote has a micro-USB port on its face. Using a micro-USB to USB cable, connect the controller to any available USB port on your laptop. If prompted, point the driver installer the Anteater driver file. Windows 7 is preferred, but later versions are reported to work.

How do I connect my Mac laptop to the Anteater?

The anteater software is only supported in Windows.

Where should I mount the Anteater? Is it waterproof?

It's recommended the controller be placed away from sources of heat, excessive vibration or electrical interference. The main controller is waterproof when its enclosure is completely snapped shut. The wired remote is not waterproof. It should remain in a dry location in the driver's compartment.

How does the Anteater connect to my transmission?

The Anteater plugs into the valvebody's 8-pin (RE) or 3-pin (RH) electrical connector. The 2-pin (RE) or 3-pin (RH) speed sensor is required for operation.

What speed input is required by the Anteater?

The Anteater requires the speed sensor to put out 23 pulses per revolution of the drive shaft. The factory 2-pin RE sensor meets this requirement.

Is throttle input required for the Anteater?

Yes. Without a working throttle input, the transmission will shift based on speed alone. Kickdown (passing) shifts will not work.

What throttle input will work with the Anteater?

- a. Any 0v-5v signal will work. Exceeding 6v will damage the controller.
- b. Any voltage change greater than 0.2v can be used. (ex. 1.0v-1.2v will work as will a 0.5v-4.5v voltage swing)
- c. Common Rail engines with APPS pedal should tap the #2 wire in the six pin plug.
- d. The voltage change must be low for 0% TPS and change to a higher voltage for 100% TPS.

Do I need to tie my throttle valve cable to 100% open?

If you have a functional throttle valve cable, then you should continue to use it. If your vehicle does not have a functional throttle valve cable, the throttle valve must be locked in the 100% position or transmission damage will result. Again, the TV lever must be tied towards the rear of the transmission or damage will be done to the transmission.

Technical

What voltages will work with the Anteater?

The main controller expects an automotive 12volt DC nominal connection with a 15amp fuse provided. The wired remote gets its power from an internal 5volt DC source.

Can I use my full manual valve body with the Anteater?

Yes, the RE version of the Anteater will function only as a lockup and overdrive controller if it is used with a full manual valvebody. Likewise, a full manual RE valvebody can be used with a RH Anteater with no ill effects.

What size fuse is required with the Anteater?

The provided fuse is a 15amp fuse in a sealed connector.

How do I connect my factory overdrive lockout switch to the Anteater?

The rear of the wired remote has two solder pads to attach a momentary switch. The switch must not be connected to any other system or controller damage will result.