INSTALLATION

1) Mount the Throttle Stop Controller away from heat, vibration & ignition wires. Fasten it with (4) #6 sheet metal screws. It can be mounted in any position, even upside down for overhead positions.

2) Wire as shown in the wiring diagrams. The TRIGGER & GROUND wire can be 18 gauge. All other wiring should be 10 gauge for electric throttle stops and 14 gauge for NOS, clutch, air solenoids, or air throttle stops. It never hurts to use oversize wire. Make sure you have a good ground connection (grounding to the interior sheet metal is not reliable). Use the circuit breaker supplied with the Denenbear electric Throttle Stops or a fuse for protection against expensive damage. Set the "Output" switches (under black screw) for whatever type of throttle stop you are using.

OPERATION

When you energize the Tranbrake solenoid, the Throttle Stop Controller is reset. When you release the transbrake, Timers 1, 2, 3, & 4 start at the launch. The Controller will activate at the times that were dialed into the push button switches. Since all the timers start at the same time, Timer 2 must be set longer than Timer 1, Timer 3 must be set longer than Timer 2, and Timer 4 must be set longer than Timer 3. Any time the transbrake button is pressed, the timers are reset: i.e. you don’t have to wait for the controller to go through its complete cycle.

To help remind you where to set the timers and about the operation of the timers, apply the enclosed “Operation” sticker to the dash or panel next to the Controller. The “OUTPUT” switches (under black plastic screw) can be switched to provide the desired ON-OFF cycle for whatever type of throttle stop you are using.

DIAGRAMS

**Dia. #1**

Dedenbear Throttle Stop Solenoid

All 10 Gauge Wire

+12 V (Optional Over-ride Switch)

From Transbrake button or Delay Box

(Diode Breaker)

**Dia. #2**

Air / CO2 Linkage Throttle Stops

All 14 Gauge Wire

+12 V (Fuse 10 Amp)

From Transbrake button or Delay Box

**OPERATION**

**Switching:** 12 volt OUTPUT

For Technical Assistance, Please call: (925)935-3025
Using the TSC-4 as a 2 STAGE TIMER

**DEDENBEAR BASE-PLATE THROTTLE STOP**
FULL THROTTLE - CLOSED - FULL THROTTLE
(OUTPUT SWITCHES BOTH UP)

Set Timer #3 & #4 to an **time larger** than the
car’s E.T. (dial-in).
(For example: A 10 second car should have
timer #3 & #4 both set to 10.50 or greater).
When both these timers apply, it will be after
the car has crossed the finish line. Also, since
both timers are **set at the same number**, they
will **cancel each other out**.

Now you can use Timers #1 & #2 as a 2-stage
timer, and ignore Timers #3 & #4.

**TIP:** Timers SET FOR THE SAME NUMBER
WILL CANCEL EACH OTHER.

Using the TSC-4 as a 3 STAGE TIMER

**DEDENBEAR BASE-PLATE THROTTLE STOP**
FULL THROTTLE - CLOSED - FULL THROTTLE - CLOSED
(OUTPUT SWITCHES BOTH UP)

Set Timer #4 to an E.T. larger than the car’s E.T.
(For example: A 10 second car should have
timer #4 set to 10.50 or greater).

When timer #3 has closed the Throttle Stop, the
driver then has the option of “over-riding” the
Throttle Stop, making it go wide-open. Just wire
in a switch as shown on the wiring diagrams.

Using the TSC-4 as a 4 STAGE TIMER

**DEDENBEAR BASE-PLATE THROTTLE STOP**
FULL THROTTLE - CLOSED - FULL THROTTLE - CLOSED
(OUTPUT SWITCHES BOTH UP)

If Timers 3 & 4 are set to time out near the finish
line, it will appear to your competitors that you are
trying to “dump” them (Timer 3). They will
be hitting their brakes right when your power is
coming back on (Timer 4).

* TIP: THE TIMER WILL ALWAYS START
WITH THE LOWEST SETTING AND WORK
IT’S WAY TO THE HIGHEST SETTING.
THEORETICALLY, SETTING ALL YOUR
NUMBERS BACKWARDS (Timer 1 setting in Timer
4, Timer 2 in Timer 3, Timer 3 in Timer 2, and
Timer 4 in Timer 1), WILL STILL WORK RIGHT!
THE TIMER WILL SEE TIMER 4 AS THE
LOWEST NUMBER, THEN TIMER 3 AND SO
ON!!!

**LIMITED 1 YEAR WARRANTY**

Dedebear Products components are warranted directly by Dedebear Products against defective materials or workmanship
under normal use and service for a period of one (1) year after purchase. Dedebear Products will repair or replace the defective
unit, at Dedebear Products option, free of charge. This warranty does not cover any damage to the component caused by
abuse, mishandling, alteration, accident, electrical current fluctuations, failure to follow installation/operating instructions,
maintenance, storage and environmental conditions, acts of God, or repair attempts made by anyone other than Dedebear Products Authorized Service facility.

DEDENBEAR PRODUCTS SHALL NOT BE LIABLE FOR INJURY, CONSEQUENTIAL, OR OTHER DAMAGE
RESULTING FROM THE USE OF ITS PRODUCTS, OTHER THAN THE LIABILITY STATED ABOVE. This warranty is in lieu of
all other warranties of merchantability or fitness of use. This warranty gives you specific legal rights, and you may also have other
rights which vary from state to state.

FOR SERVICE on all Dedebear Products, return directly to: **DEDENBEAR PRODUCTS, INC. • ATTN: REPAIRS • 1917 OAK
PARK BLVD. • PLEASANT HILL, CA 94523. For Faster Service**, please include a note describing the nature of the problem, a
copy of your original invoice, your name, return shipping address, and daytime & evening phone numbers where you can be reached.
Or call us and we’ll take down the information. Normal turn-around time on service is typically 24-48 hours.

CUSTOMER SERVICE & TECH. SUPPORT: (925)935-3025 Mon-Fri 8am-5pm PST