

**INSTALLATION
INSTRUCTIONS**

**1917 OAK PARK BLVD. PLEASANT HILL, CA 94523
(925)935-3025 FAX (925)935-2287**

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 guage. 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 Dedenbear 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.

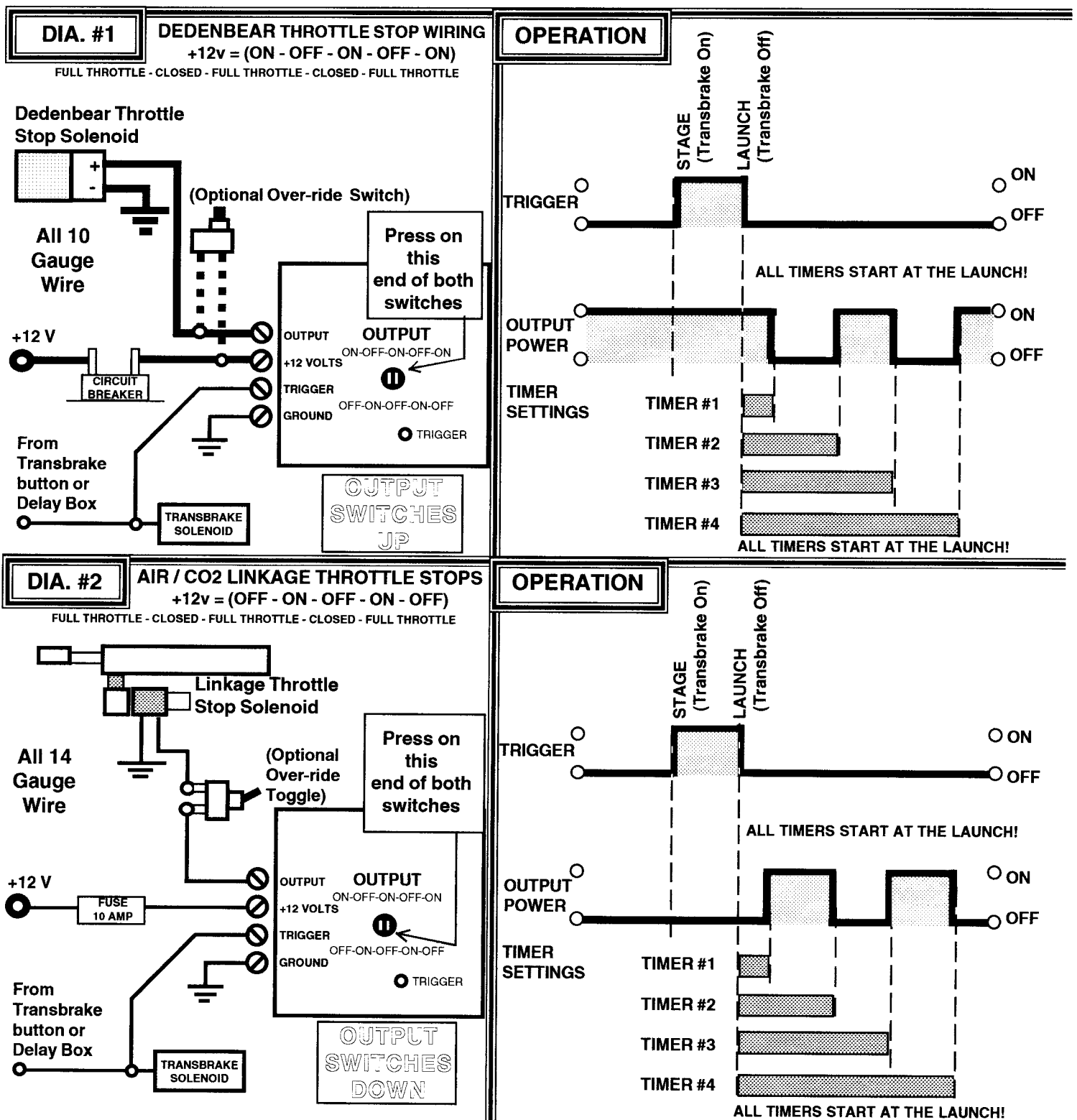
OPERATION

When you energize the Transbrake 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.

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).

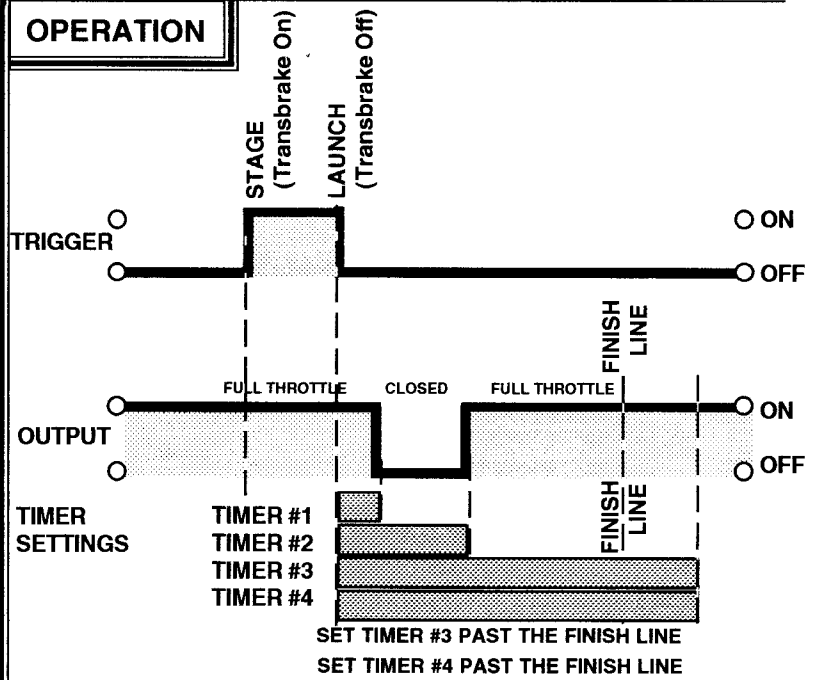
(For example: A 10 second car should have timer #3 & #4 both set to 10.50 or greater).

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.**

OPERATION



Using the TSC-4 as a 3 STAGE TIMER

DEDENBEAR BASE-PLATE THROTTLE STOP

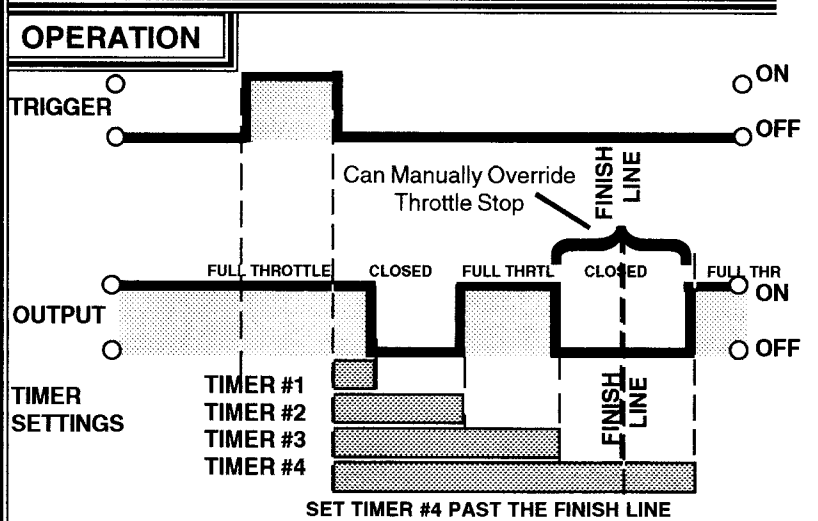
FULL THROTTLE - CLOSED - FULL THROTTLE - CLOSED
(OUTPUT SWITCHES BOTH UP!)

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.

OPERATION



Using the TSC-4 as a 4 STAGE TIMER

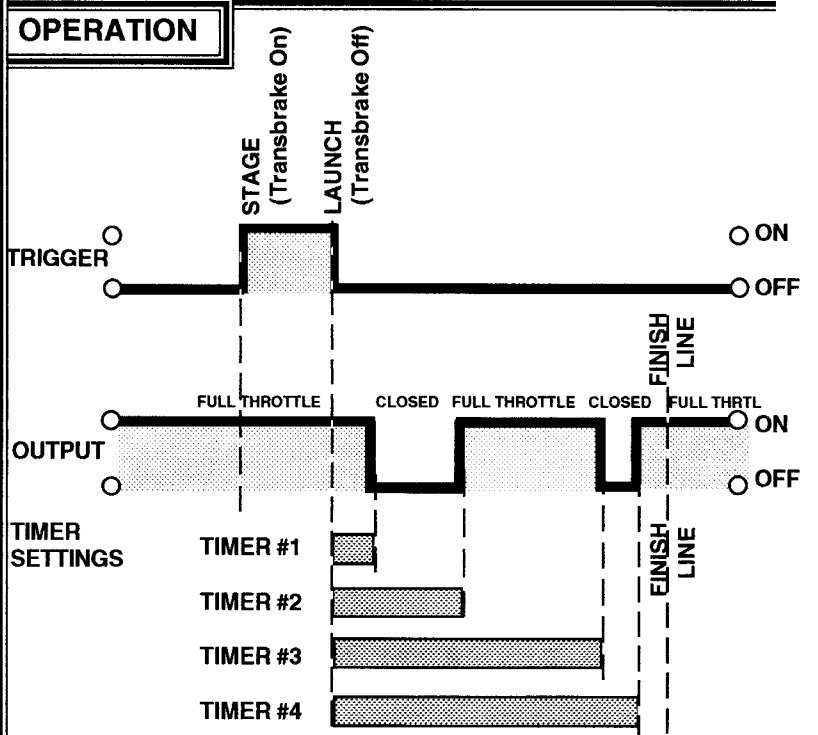
DEDENBEAR BASE-PLATE THROTTLE STOP

FULL THROTTLE - CLOSED - FULL THROTTLE - CLOSED - FULL THROTTLE
(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. THEREFORE, 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!!!**

OPERATION



LIMITED 1 YEAR WARRANTY

Dedenbear Products components are warranted directly by Dedenbear Products against defective materials or workmanship under normal use and service for a period of one (1) year after purchase. Dedenbear Products will repair or replace the defective unit, at Dedenbear 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 Dedenbear Products Authorized Service facility.

DEDENBEAR PRODUCTS SHALL NOT BE LIABLE FOR INJURY, CONSEQUENTIAL, OR OTHER TYPE DAMAGES 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 Dedenbear 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