INSTALLATION INSTRUCTIONS

1) If you are replacing the electric solenoid on the throttle stop, remove the existing electric solenoid. Do this by unscrewing the solenoid plunger from the linkage. If you have a TS-2 or TS-5 (Dominator) stop, also remove the round anodized aluminum spacer from the linkage. Undo the 1 1/4" nut that holds the solenoid to the stop and remove the solenoid, the solenoid plunger, and the spacer (dominator only). Set these aside (you will not use them with the retrofit). Remove the 1/4-28 set screw from the gold actuator.

2) Install the air cylinder by slipping the adapter sleeve over the threaded end of the cylinder and fitting it back into the stop. Spin on the 1 1/4" nut and tighten (do not over-tighten). The shoulder of the adapter centers the air cylinder inside the smaller bore where the large electric solenoid used to be. (See drawing on back.)

3) To prevent binding of the linkage, check to make sure that the casting does not hit the solenoid valve. If it does, then grind or file the casting for clearance.

4) Thread the air cylinder shaft into the gold throttle stop linkage actuator by turning the shaft. The wide open position of the throttle blades is adjusted by screwing the shaft into the linkage the proper amount. This is done by opening the linkage until the shaft bottoms out in the air cylinder and checking that the throttle blades are straight up and down (wide open throttle). When the adjustment is correct, tighten the shaft lock nut.

WIRING / PLUMBING

1) Connect one of the solenoid wires to ground. Connect the other wire to the old wire that used to power the electric solenoid. (See diagram on back.) If this is a new installation, run a 14 gauge wire to the Throttle stop controller. (Older Model TSC-2 & TSC-3 use the NC terminal, Newer Model TSC-2A & TSC-4 use the OUTPUT terminal, and "Output" switch moved up to ON-OFF-ON mode.)

2) Take the 1/4" diameter nylon tubing from your CO2 bottle and push it into the air fitting on the needle valve. The tube can be removed by pushing in on the orange locking ring and pulling on the tubing. Recommended air pressure from the regulator is 60-80 PSI. Maximum pressure is 120 PSI. Use a CO2 system instead of compressed air because the compressed air systems foul up with oil and water condensation from the compressors used to fill the bottle.

3) The needle valve determines how fast the throttle stop opens. For a starting point, loosen the locking ring on the needle valve and turn the needle valve all the way in. Then back out the needle valve about 4 turns and tighten the locking ring. Backing the needle valve out further opens the blades faster, and turning it in opens the blades slower.

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

Orig. 2/96 Rev. 11/02
**ASSEMBLY**

- Throttle Stop Body
- Adapter
- Air Cylinder
- Exhaust Port (Do not plug!)
- Nut
- Intake Port
  - Push air line into orange fitting on needle valve (Max. 120 psi)
- Needle Valve

**NOTE:**
May need to grind Throttle Stop for additional clearance.

**WIRING**

- +12 volts = Wide Open
- Throttle Stop
- Master On-Off Switch
- 14 gauge
- Fuse 10 Amp
- 14 gauge
- Output
  - +12 Volts
  - Trigger
  - Ground
  - Transbrake Button
  - (if used)
  - Delay Box
- Transbrake Solenoid

**Note:** If you are using a Model TSC-2A or Model TSC-4 Throttle Stop Controller, move the toggle switch or micro switches to the UP position. (On-Off-On sequence)

- On-Off-On
- Off-On-Off
- On-Off-On
- Off-On-Off
- Under 1/2-inch black plastic screw

**TSC-2A**

THROTTLE STOP CONTROLLER

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