

INSTALLATION INSTRUCTIONS



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

Throttle Stop
Air Retrofit Kit
Models
TS-1R / TS-5R

INSTALLATION

- 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 (Dominador) 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

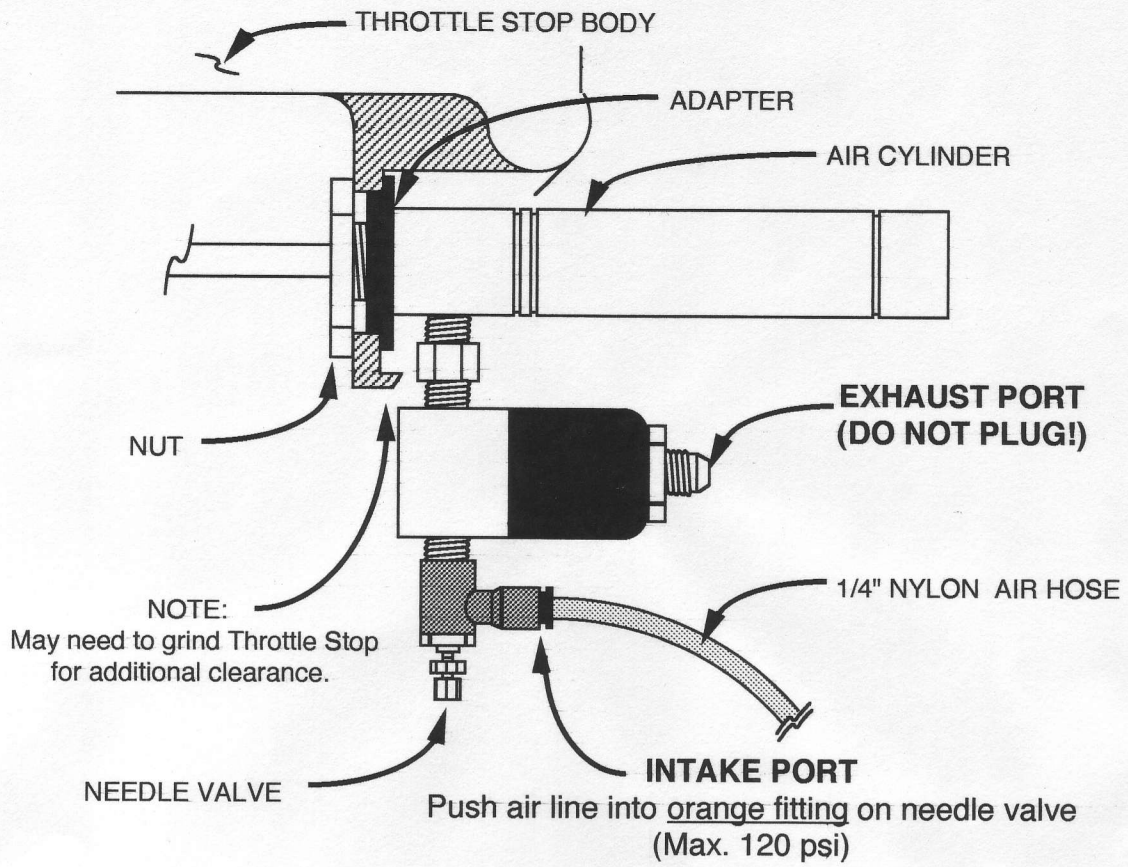
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ASSEMBLY



WIRING

