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TCI® 861700 Roll Stop®

This TCI 861700 Kit Contains:

<u>Qty.</u>	<u>Description</u>
One (1)	Solenoid
Two (2)	Screws
One (1)	Micro Switch
One (1)	Wire Connector Kit
One (1)	Bracket
One (1)	Fuse & Holder

Step 1 Select a mounting location that will position the solenoid between the proportional valve and the front wheel cylinder. (Can be installed for rear system if required. Just connect to rear brake system.) Kit contains two (2) 1/4"x1-3/4" self-tapping screws. Use 3/8" socket to mount solenoid in place.

Step 2 Before mounting solenoid, note that the solenoid has two (2) openings. The brake lines are connected to these openings. There are two (2) common size brake lines available. TCI's solenoid will work with either size. But you will need to purchase the proper bushing adapter. The thread size in the TCI solenoid is 1/8" straight pipe thread. Purchase either an adapter that goes from 1/8" to 1/4" inverted flair or 1/8" to 3/16" inverted flair. When using the bushing adapters you may use TEFLON® tape on the adapter threads but do not cover the first two (2) threads. Use of an excessive amount of TEFLON® sealing tape can cause contamination of brake system. You must obtain a pair of brake line fittings to join the brake line to the solenoid. The brake line fittings will seal the system and keep from leaking fluid pressure.

Step 3 Mount solenoid securely.

Step 4 Next, connect brake lines. The opening that is marked "in" must be connected to the proportional valve and the opening that is marked "out" must be connected to the front wheel cylinder. Use only DOT grade or better brake lines.

Step 5 Wiring the solenoid. The solenoid has two (2) wires: one (1) ground wire and one (1) "hot" wire that will be connected to micro switch. Proper installation is required. Make sure that the ground wire (black) is connected to a good clean contact area. When connecting wires, use barrel connectors or other electrical connectors. If additional wire is required, use only the same gauge or larger.

Step 6 A Snap Lock Fuse holder and four (4) amp fuse have been provided with your kit. Fuse holder should be connected between the TCI solenoid and 12 volt positive (+) power source. Connect between the red wire coming off solenoid and the battery.

Step 7 Wiring and mounting micro switch. DISCONNECT BATTERY. The bracket provided can be easily mounted in a variety of locations. The switch must be mounting for easy operation. We suggest mounting close to the steering wheel or on the shifter. After you have selected where the switch will be mounted, measure length of wire needed to connect micro switch to solenoid. Use at least a 22 gauge wire. You will need to run two (2) wires from the micro

switch. One wire will be connected to solenoid (red wire), and the other wire (black) will be connected to the positive or "hot" 12 volt system. Make sure that the terminals of the micro switch are connected to the wires properly. Secure all loose wires to avoid contact with any moving object. Allow enough wire to accommodate turning of the steering wheel.

Step 8 Bleed brake system. After all the brake lines are installed, the system must be air bled to release any air trapped in the system. Consult service manual for your vehicle for special procedures.

Step 9 Refill master cylinder to proper level using approved DOT brake fluid.

Step 10 Test system: Reconnect battery. Jack vehicle up until the wheels are off the floor. Using proper weight jack stands secure the vehicle on the stands. Turn ignition on. Next, have someone turn the electrical system on, push on the brake pedal, press the micro switch button down and hold on, then release the brake pedal. If wired properly this will engage the front wheel cylinder and keep the front wheels from turning. Next, try to turn the front tires. When the micro switch in the "on" position, you should not be able to turn the tires. Only when the micro switch button is release, will you be able to turn the tires.

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WARNING: The Roll Stop has been manufactured to specific specifications and should not be used beyond its capabilities. TCI's Roll Stop is designed to act as a temporary braking system for up to sixty (60) seconds.

