

Installation Instructions for TCI® Thin-Line Fans

827000 10", 827250 12", 827350 14", 827450 16"

NOTE Please read the instructions carefully before installing fan(s) to ensure a safe and easy installation.

This Kit Contains:

Qty.	Description
One (1)	Fan Assembly
Four (4)	Mounting Rods
Four (4)	Mounting Brackets
Four (4)	Conical Springs
Four (4)	Foam Pads
Four (4)	Lock Buttons

Step 1 Disconnect positive battery cable before beginning work on your vehicle.

Step 2 If fan(s) are to be used to replace belt-driven fan:

- A.** Remove fan clutch assembly and fan shroud.
- B.** Insure that the pulley is secure to the water pump shaft. It may be necessary to use shorter bolts to clear the water pump housing. Failure to properly secure the pulley may result in personal injury or damage to the vehicle.

If fan(s) are to be used to replace original electric fan:

- A.** Detach all wires to existing electric fan on vehicle.
- B.** Remove electric fan assembly.

If fan(s) are to be used as add-on cooling:

- A.** Measure the distance in front of the radiator/AC condenser to the grill.
- B.** Also measure the distance behind the radiator to the fan blades or closest engine component.
- C.** Given the respective clearances, decide whether to install the fan(s) as a **PUSHER** (in front of radiator) or as a **PULLER** (behind the radiator).

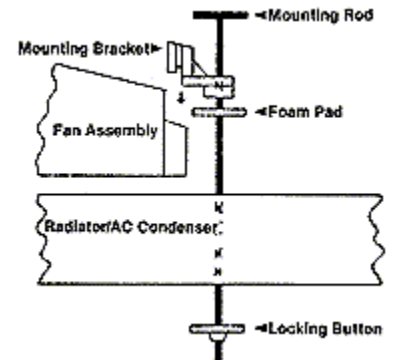
NOTE: At least one inch (1") clearance should be maintained between fan and fan blades or other vehicle components.

Step 3 Your Thin-Line Fan is assembled as a **PUSHER**. If you are going to install the fan as a **PUSHER**, go to **step 4**. If you are going to install it as a **PULLER** (behind the radiator):

- A.** Remove the fan blade retaining clip from the back of the fan.
- B.** Carefully remove the fan blade.
- C.** Turn the blade over, align the groove in the blade with the roll pin in the motor shaft and carefully push the blade onto the shaft.
- D.** Reinstall the retaining clip onto the motor shaft.

Step 4 **NOTE:** It is usually not necessary to remove the radiator to install the electric fan(s). On some vehicles, it may be necessary to remove the mounting hardware and tilt the radiator back towards the engine to gain the necessary clearance between the radiator and the AC condenser.

- A.** Insert the four (4) mounting brackets into the slots on the fan.
- B.** Remove paper backing from the foam pads and apply the pads to the bottoms of the four brackets. Trim off excess foam to avoid interference with the fan blades.
- C.** Slide the small end of the conical springs onto the mounting rods.
- D.** Place the fan assembly in the desired position on the radiator AC condenser.
- E.** Carefully push the mounting rods through the holes in the brackets and the radiator or AC condenser. **DO NOT** insert the rod through both the radiator and AC condenser.



F. Push the lock buttons over the ends of the mounting rods. Pull the rods through the buttons until the springs are half the original height. Trim the excess rod (**See illustration**).

G. Before wiring, spin the fan blade to ensure free and unobstructed rotation. **Step 5** Your Thin-Line Fan is fully compatible with TCI® 826500 Adjustable Control or TCI® 826501 Preset Control. The wiring instructions are enclosed with those kits. To wire your fan without a thermostat control:

A. Make sure you have disconnected the positive cable from the battery to prevent accidental starting of the fan.

FOR 10", 12", & 14" FAN

- B.** For **PUSHER** Fan: Connect the Positive (**black**) wire with 25 amp fuse (not included) to a toggle switch (not included) rated to 25 amps. Connect the toggle switch to a positive (+) 12 volt source. Next connect the blue wire to ground.
- For **PULLER** Fan: Connect the positive (**black wire**) fan wire to ground. Connect blue wire with 25 amp fuse (not included) to a toggle switch (not included) rated to 25 amps. Connect the toggle switch to a positive (+) 12 volt source.

FOR 16" FAN

- B.** For **PUSHER** Fan: Connect positive (**yellow**) wire with 25 amp fuse (not included) to a toggle switch (not included) rated to 25 amps. Connect the toggle switch to a positive (+) 12 volt source. Next connect the **black** wire to ground.
- For **PULLER** Fan: Connect the positive (**yellow**) wire to ground. Connect black wire with 25 amp fuse (not included) to a toggle switch (not included) rated to 25 amps. Connect the toggle switch to a positive (+) 12 volt source.
- C.** Reconnect positive battery cable.