



INSTALLATION INSTRUCTIONS TORNADO ELECTRIC FAN KIT PART # 16504 & 16505

Please read these instructions completely before beginning installation

KIT CONTENTS

QTY.	DESCRIPTION	QTY.	DESCRIPTION
1	Electric Fan Assembly	3	Blue Female Connector
4	Mounting Rod	1	Blue Wire Tap Connector
4	Mounting Clip	2	#10 Blue Ring Terminal
4	1x1 Foam Pad	3	Blue Butt Connector
1	Manual Switch	4	#10 x 1/2" Sheet Metal Screws
7ft	14 Gauge Wire	4	4" Zip Ties

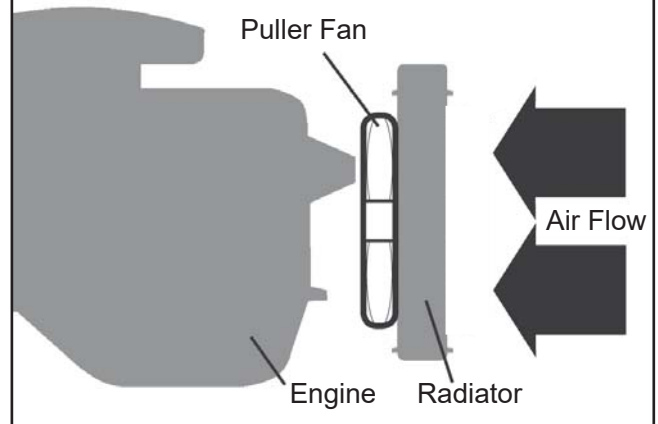
TOOLS NEEDED

Standard Screw Driver
Drill
5/32" Drill Bit
12V Test Light
Wire Stripper
Crimping Tool
Dyke Pliers

IMPORTANT

This fan assembly is designed for PULLER applications only.
(See Diagram #1)

Diagram #1



ELECTRIC FAN MOUNTING

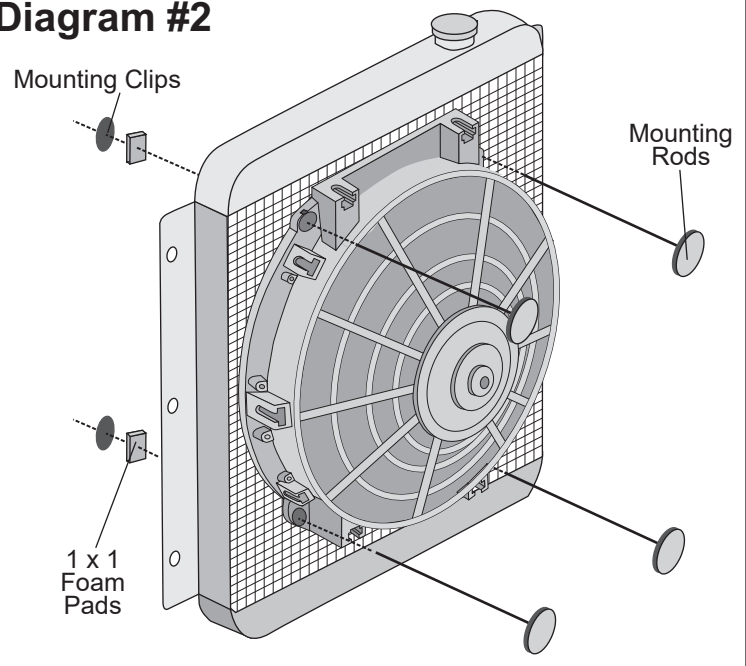
Note: This Electric Fan Assembly requires 4 mounting positions (Part# 16505 requires 3 mounting positions). (See Diagram #2)

1. Position the electric fan against the radiator in the desired location.
2. Take the Plastic Rods provided and install through the mounting holes on the shroud pushing them slowly into and through the radiator core.

Caution: Do not use excessive force when pushing Plastic Rods through radiator core. Excessive force could cause damage to the radiator fins and/or core. Plastic Rods should not be inserted thru both the radiator and the condenser cores.

3. Take the 1 x 1 Foam pads provided and install them onto the Plastic Rods now protruding through the radiator core.
4. Take the Plastic Clips provided, making sure they are in the correct direction (Derales writing out) install onto the Plastic Rods and cinch them until the 1 x 1 Foam Pads are compressed.
5. Cut off the excess Plastic Rod.

Diagram #2



(Continues on Page 2)

MANUAL SWITCH MOUNTING

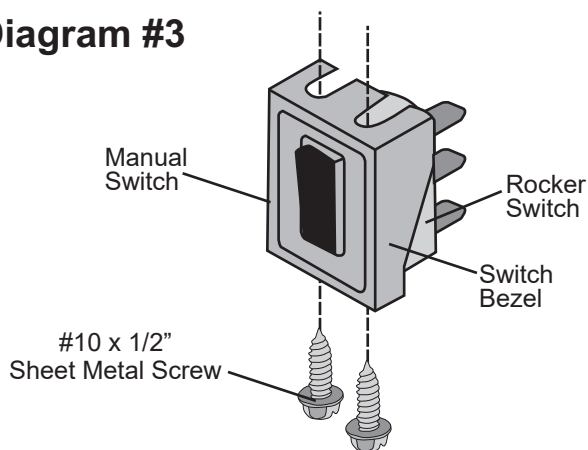
(See Diagram #3)

1. Find a location in the vehicles passenger compartment.
2. Using the Manual Switch as a template, mark and drill two 5/32" holes.

Note: Rocker Switch can be removed from Switch Bezel by pinching the tabs on the top and bottom of the Rocker Switch.

3. Using the supplied #10 x 1/2" Sheet Metal Screws, attach the Manual Switch in the desired location.

Diagram #3

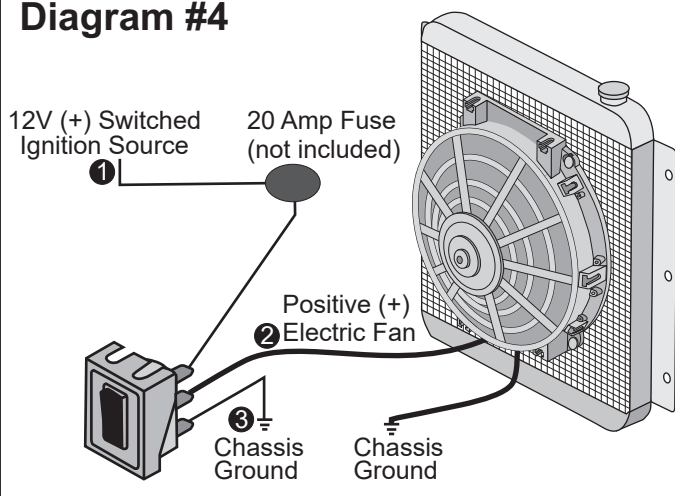


WIRING

(See Diagram #4)

1. Disconnect the Negative (-) terminal on the vehicles battery.
2. Using the #10 Ring Terminal & #10 x 1/2" Sheet Metal Screw supplied, attach the **BLACK** Negative (-) Electric Fan lead to a good chassis Ground (-).
3. Using the 14 Gauge Wire, Blue Female Connector & Blue Butt Connector supplied, attach the **RED** Positive (+) Electric Fan lead to the #2 terminal on the Manual Switch.
4. Using the 14 Gauge Wire, #10 Ring Terminal & #10 x 1/2" Sheet Metal Screw supplied, attach the #3 terminal on the Manual Switch to a good chassis Ground (-).
5. Using the 14 Gauge Wire, Fuse Holder, Blue Female Connector, Blue Butt Connectors & Blue Wire Tap Connector supplied, attach one end of the wire to a Positive (+) switched ignition source.
6. Attach the other end of the wire to a 20 Amp fused Circuit (Fuse not included).
7. Then run wire from the fuse and attach to the #1 terminal on the Manual Switch.
8. Reattach the Negative (-) terminal to the vehicles battery.

Diagram #4



TROUBLESHOOTING Q&A

Q: Why Doesn't the Electric Fan turn on when I flip the Manual Switch?

A: 1. Check all connections to make sure all wires are crimped correctly.

2. Check all Chassis Ground (-) connections to make sure all paint is sanded off and you are getting metal to metal contact.

Q: Why is the Electric Fan blowing in the wrong direction?

A: Switch the Positive (+) and Negative (-) Electric Fan leads. This will reverse the airflow direction.

(Page 2)

Warning: Installation of accessories should only be undertaken by those with mechanical knowledge and are familiar with working on vehicles. Always use eye protection (goggles, safety glasses or shield). Park the vehicle in a well lit area, on level ground and apply the parking brake. Only work on a cold vehicle that has been sitting overnight, failure to do so will result in severe burns and injury. Before starting the vehicle, make sure no tools or any other items are left under hood that could interfere with or be drawn into moving parts of the engine. Failure to follow instructions can lead to severe damage and personal injury.