



# INSTALLATION INSTRUCTIONS

## BRUSHLESS DUAL FAN POWERPACK WITH PWM

### PART # 67926, 67938, 67942 & 67944

Please read these instructions completely before beginning installation

#### FAN SHROUD ASSEMBLY KIT CONTENTS

QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION
1	Dual Brushless Fan Shroud Assembly	2	50 AMP Circuit Breaker	16	1/4-20 SS Lock Nuts
1	PWM Fan Sensor/Control	1	6ft of 10 AWG Red Wire	40	1/4" SS Flat Washers
1	Sensor Wiring Harness SBL-TS-HARN	4	Angle Brackets	4	Yellow 5/16" Ring Terminal
2	Fan Wiring Harness SBL-YAZ-PT	1	Rubber Fan Shroud Seal	4	Yellow #10 Ring Terminal
4	#10 sheet metal screws	16	1/4-20 x 3/4" SS Hex Bolts	1	Red Butt Connector

#### TOOLS NEEDED

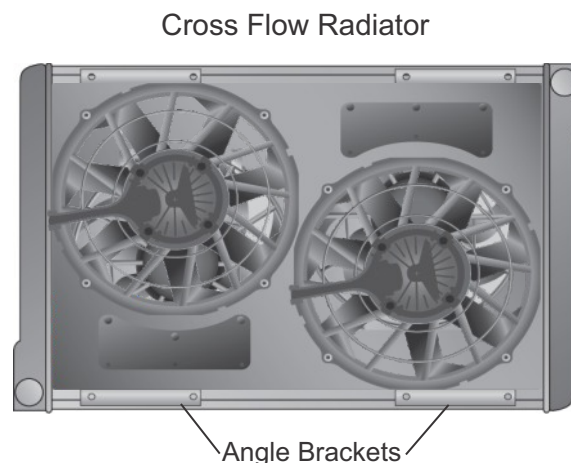
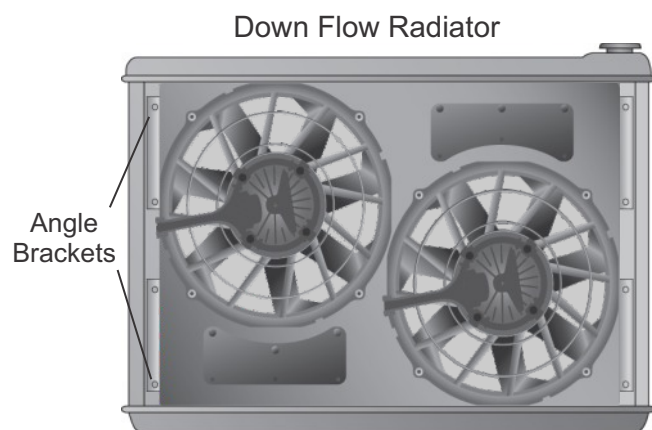
Drill  
5/32" Drill Bit  
Multimeter / Test Light  
5/16" Nut Driver  
7/16" Open End Wrench  
7/16" Socket & Ratchet  
Wire Stripper  
Wire Crimping Tool  
Thread Sealant

#### IMPORTANT

This fan assembly is designed for PULLER APPLICATIONS ONLY Engine side of radiator. (See Diagram #1)

#### Diagram #1

#### MOUNTING OPTIONS

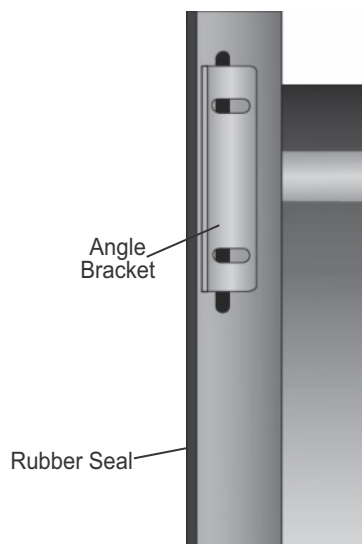
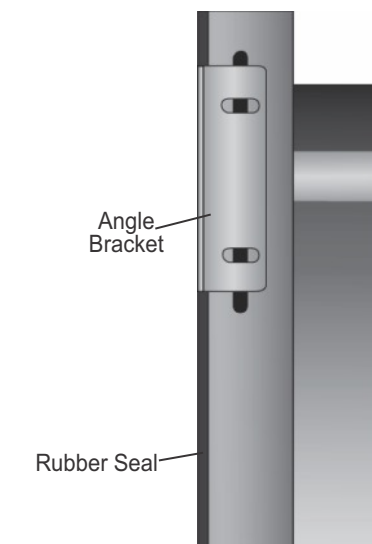


Shroud should be mounted tight against radiator to minimize air leaks that would reduce efficiency.

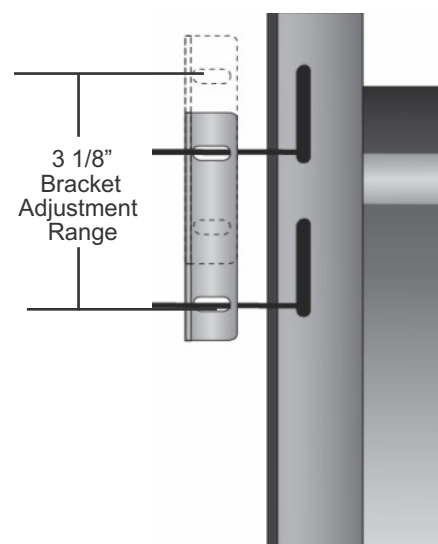
#### Diagram #2

##### Option 1 Flush Mount

##### Option 2 Recessed Mount



##### Adjustment Range



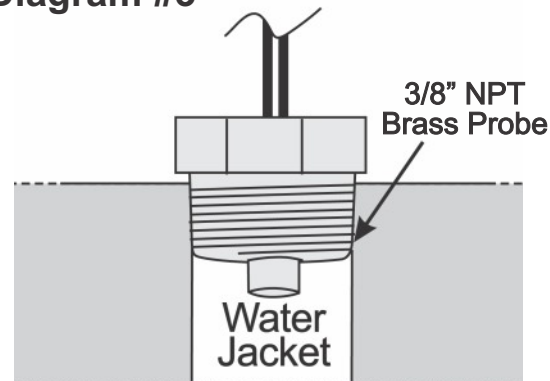
## INSTALLATION

### PWM SENSOR CONTROL PROBE INSTALLATION

**Note:** The sensor thread size is 3/8-18 NPT

1. Locate a water port on the HOT side of the vehicles cooling system. (Intake Manifold, Thermostat Housing, Radiator, etc.) In some cases the vehicle will not be equipped with a 3/8 port, if this is the case you can use an adapter/bushing (preferably Brass) to accommodate a 1/2" NPT port. When adapting the sensor to 1/2" NPT, make sure the unthreaded portion of the sensor is still able to make good contact with the coolant.
2. Apply a suitable Thread Sealant to sensor threads/adapter threads.
3. Install the PWM sensor into the port and tighten. This is a tapered thread, so be sure not to overtighten.
4. At this time, continue to the INSTALLATION OF ELECTRIC FAN ASSEMBLY TO RADIATOR section, you will complete the sensor installation when you get to the wiring section.

Diagram #3



### INSTALLATION OF ELECTRIC FAN ASSEMBLY TO RADIATOR

Before installing shroud Reference Diagrams # 1 & 2 on page 1 to decide how the Assembly should be mounted to radiator.

1. Using a table or workbench, lay the Dual Brushless Fan Shroud Assembly on a flat surface, fan facing down.
  2. Take the supplied Rubber Fan Shroud Seal and install it onto the bottom edge of the Fan Shroud Assembly. (See Diagram #4)
  3. Cut off any excess Rubber.
  4. Identify the four Angle Brackets, Stainless Steel 1/4-20 x 3/4" Hex Bolts, 1/4" Flat Washers & 1/4-20 Lock Nuts.
  5. Attach the Angle Brackets to the Shroud using two bolts per bracket and two washers per a bolt. (See Diagram #5)
- Note:** In some applications where the radiator flange is not right up against the fan shroud, longer bolts can be used to space the Angle Brackets. (See Diagram #6) Hardware not included.
6. Position the Electric Fan Assembly against the radiator in the desired location.
  7. Using the remaining Stainless Steel 1/4-20 x 3/4" Hex Bolts, 1/4" Flat Washers & 1/4-20 Lock Nuts, attach the Electric Fan Shroud Assembly to the radiator. (See Diagram #5)

**Note:** In some cases the radiator flange may have to be drilled for proper alignment.

Diagram #4

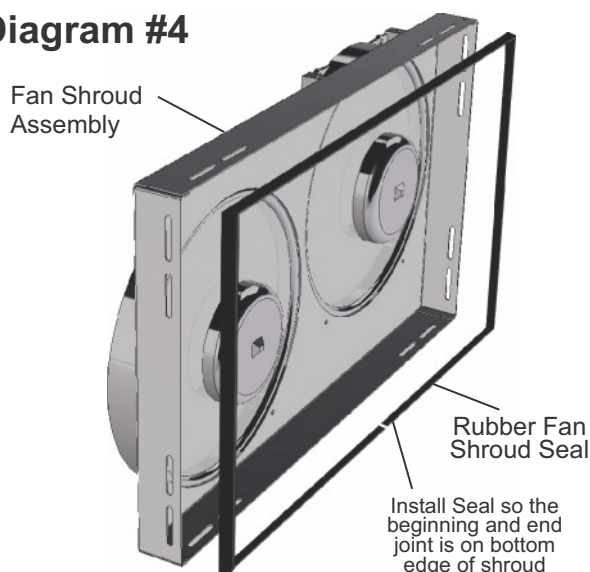


Diagram #5

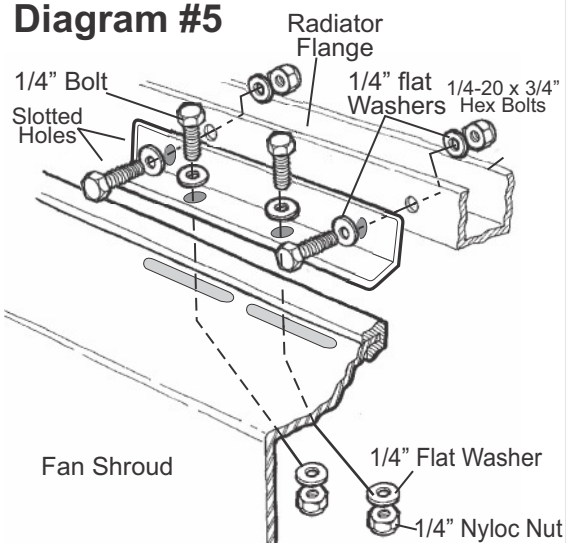
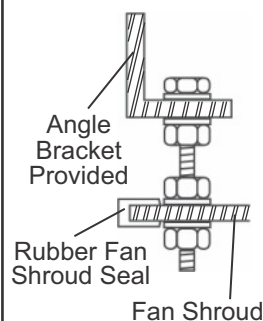


Diagram #6

#### OPTIONAL MOUNTING



### CIRCUIT BREAKER MOUNTING

1. Choose a convenient location for each of the circuit breakers that is between the fan controller and the battery.
2. Using the circuit breakers as a template, mark and drill two 5/32" holes in the proper locations.
3. Using the remaining four #10 sheet metal screws supplied, secure the circuit breaker in place.

## FAN WIRING INSTRUCTION

Before starting, disconnect the negative (-) cable on the vehicles battery.

Using the Two Wire Harnesses, Wire & electrical connectors provided, follow the instructions below.

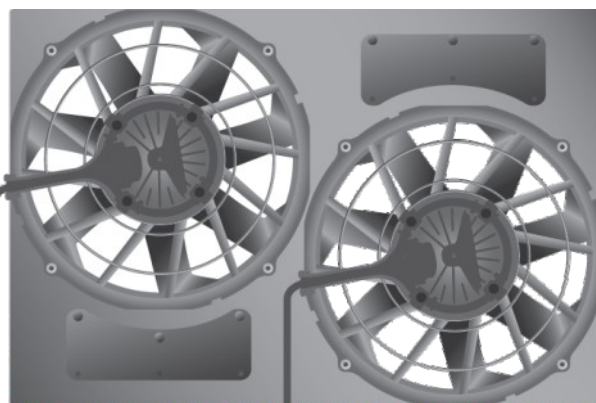
**IMPORTANT:** The positive and negative wires feeding the Fan Wiring Harness (SBL-YAZ-PT) **MUST** be connected directly to the vehicles battery. This is very important because the Fan requires a clean signal, do not connect directly to the fuse panel, starter or the alternator. **Improper installation will void the warranty.**

**Note:** The supplied Terminals and Connectors are crimp and seal terminals. After crimping the Terminal(s) and Connector(s) to the inserted wires, apply heat to shrink the insulation material to the wires using a heat gun. When heat is applied to the shrink material it will shrink and seal the wires going into the Terminal(s) and Connector(s).

1. Plug the provided Fan Wiring Harness (SBL-YAZ-PT) into the blue plug on each of the fan motors (See Diagram #7 on page 4).
2. Connect two yellow 5/16" Ring Terminal to two 3ft pieces of 10 AWG Red Wire (supplied), connect one end of the Red Wire to the vehicles positive (+) terminal on the battery. You will cut the 6ft of 10 AWG Red Wire in half to make the 3ft pieces.
3. Route the (2) 10 AWG Red Wires (now connected to the battery) to each of the installed circuit breakers. One Red will route to each of the two circuit breakers previously installed. Now cut the wires to the appropriate length. (See Diagram #7 on page 4)
4. Connect two yellow #10 ring terminals to each piece of 10 AWG Red Wire. Then connect one Red Wire to the "BAT" (Copper Colored) terminal on each circuit breaker. (See Diagram #7 on page 4)
5. Using two yellow #10 ring terminals, connect the auxiliary side "AUX" (Silver Colored) of each circuit breaker to the Red Wires of the two Fan Wiring Harnesses plugged into each fan motor (SBL-YAZ-PT).
6. Using two Yellow 5/16" Ring Terminals, Connect the Black Wires from the Fan Wiring Harnesses (SBL-YAZ-PT) direct to Battery Ground terminal. (See Note above) (See Diagram #7 on page 4)
7. Using a Red Butt connector connect the White Wire from each of the Fan Wiring Harnesses (SBL-YAZ-PT) to the White Wire on the Sensor Wiring Harness (SBL-TS-HARN).
8. Connect Sensor Wiring Harness (SBL-TS-HARN) to the easy plugin connector on the PWM Fan Sensor/Control.
9. Connect the Red Wire from the Sensor Wiring Harness (SBL-TS-HARN) to a fused switched ignition source (fuse not provided).
10. Optional override Blue Wire from the (SBL-TS-HARN) connect to a 12V positive source for manual switch or A/C override.
11. Connect Black Wire from Sensor Wiring Harness (SBL-TS-HARN) to good chassis ground.
12. Yellow wire - DO NOT USE! Yellow Wire will not be used from Fan Wiring Harness (SBL-YAZ-PT).
13. After Fan installation check all connections. Connect the negative (-) cable on the vehicles battery.

## Diagram #7

Dual Brushless  
Fan Shroud Assembly



SBL-YAZ-PT

SBL-YAZ-PT

Note: Yellow Wire  
Not Used

Black Wire (-)  
Fan to  
Chassis Ground

Black Wire (-)  
Fan to  
Chassis Ground

Note: Yellow Wire  
Not Used

Red Wire (+)

Red Wire (+)

Yellow  
#10 Ring  
Terminal

Yellow  
#10 Ring  
Terminal

B  
A  
T  
A  
U  
X  
Circuit  
Breaker

B  
A  
T  
A  
U  
X  
Circuit  
Breaker

Yellow  
5/16" Ring  
Terminal

Red Butt  
Connector

SBL-TS-HARN

PWM Sensor/Control

7/8" Hex

3/8"-18 NPT

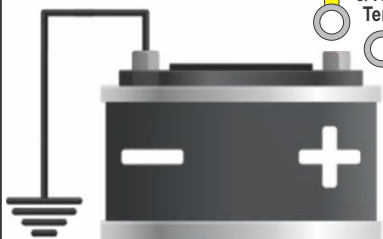
White Wire

Blue Wire

Fused Switched  
Ignition Source

Optional Override\*  
(Positive Trigger) 12V (+)  
(Manual Switch or A/C Override)  
\*On activates fan at full speed

Black Wire (-)  
Sensor To  
Chassis Ground



(Page 4)



Please direct all technical questions to our Derale tech line at (323) 266-3850



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.

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