

**GENERAL INFORMATION** — Lil' Stanker™ fans are designed to create a slight vacuum within your holding tanks that helps in preventing odor infiltration into living areas. This continuous air suction is effective in controlling both grey and black water tank odors (although a separate fan is usually necessary for each holding tank.) The In-Line™ version is designed to be mounted at any point along the vent pipe's run between the holding tank and roof. Standard female pipe fittings for 1-1/2" I.D. vent pipe are used for fan attachment; other fitting sizes are available via special order. The fan can be mounted at any angle — even upside-down if necessary. The two-speed selector switch can be mounted either inside the included enclosure, or on your own panel. A green power indicator light on the switch confirms that the fan is turned on.

## STEP-BY-STEP INSTALLATION INSTRUCTIONS

(NOTE: Please Read Entire Instructions Before Starting)

**STEP 1:** Determine the best mounting location for your fan, based upon:

- 1. Access to the vent pipe,
- 2. Access to nearby DC power wires,
- 3. Convenient nearby switch mounting location, and
- 4. Best physical appearance (if mounted inside living areas).

For example, the fan might be installed inside the same compartment that houses the holding tank, or inside a cabinet or closet. The fan is inaudible at any distance greater than several feet, so this is the minimum distance that it should be mounted from sleeping areas.

Next, test the fan by temporarily connecting it directly to your house battery or other 12 volt DC power source (**GREEN** wire to **POSITIVE**, and **WHITE** wire to **NEGATIVE**). The fan should start immediately.

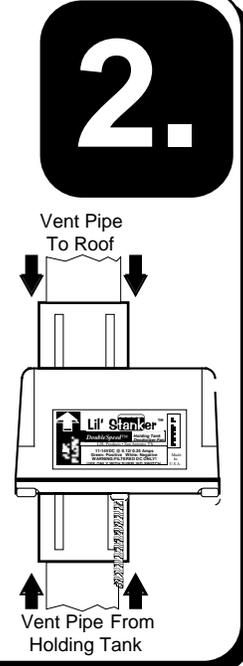


**STEP 2:** If not already present, install a roof-mounted vent pipe cap, in order to keep debris and rainwater from falling down into the fan.

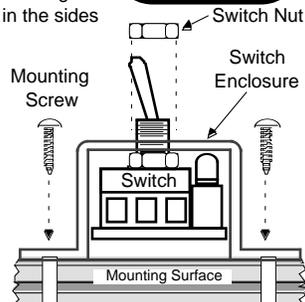
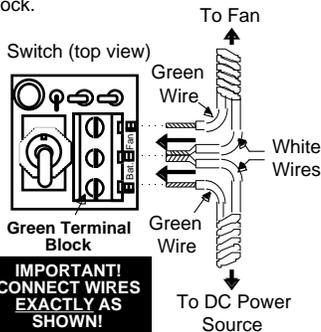
Next, identify the intended fan mounting location, and cut a 3-1/4" inch (83 MM) section out of the vent pipe at this point (use the Vent Pipe Cutting Gauge shown at right to measure the proper distance). Trim away any rough edges on the pipe, and apply either a dab of petroleum jelly or a layer of Teflon® tape all the way around the end of each pipe, in order to provide an airtight seal with the fan. Next, slide the fan in place over the pipe ends. (**NOTE:** The fan should be installed so that the **AIR FLOW** arrow points towards the end of the vent pipe on the roof.)

**CAUTION:** Take care to avoid twisting the fan while inserting the vent pipe. Excessive force may break the fittings on the fan.

**NOTE:** Installing the fan with cement is not recommended, since doing so would hinder any future attempts to remove the fan for repairs or cleaning. A slip-in fit is sufficient to provide an airtight connection.



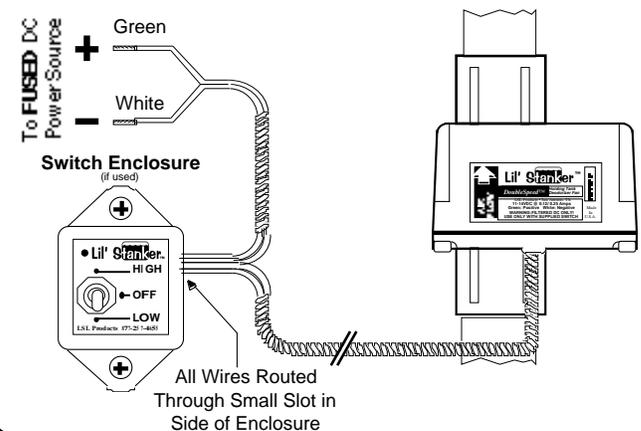
**STEP 3:** Select a convenient, non-metallic mounting surface for the fan shutoff switch inside a closet, cabinet or other compartment, near the fan's power wires. (**NOTE:** If desired, up to 2 fans may be connected to the same switch). Cut the fan's wires next to this mounting location. Strip approx. 1/4" (6MM) of insulation off both cut ends of both wires, twisting any frayed wire strands back together again. Insert these bare wire ends into the holes in the sides of the green terminal block on the switch as shown below, and tighten each of the 3 screws on the top of the terminal block with a small screwdriver. Note that both **WHITE** wires go to the same **CENTER** hole in the terminal block.



Next, mount the switch in the switch enclosure (or your own panel), securing it with one switch nut. Use the two mounting screws to attach the enclosure (if used) to a flat mounting surface, after routing all wires out the small slot on the side.

**STEP 4:** Strip the ends of the power wires and connect them to a **FUSED** source of 12 volt DC electrical power (**GREEN** fan power wire to **POSITIVE**, and **WHITE** fan wire to **NEGATIVE**). **IMPORTANT: MAKE CONNECTIONS EXACTLY AS SHOWN. FAN WILL NOT WORK IF WIRING OR BATTERY CONNECTIONS ARE INCORRECT.**

The recommended fuse size is 0.25 amps (for 1 fan) or 0.5 amps (for 2 fans). This completes the installation.



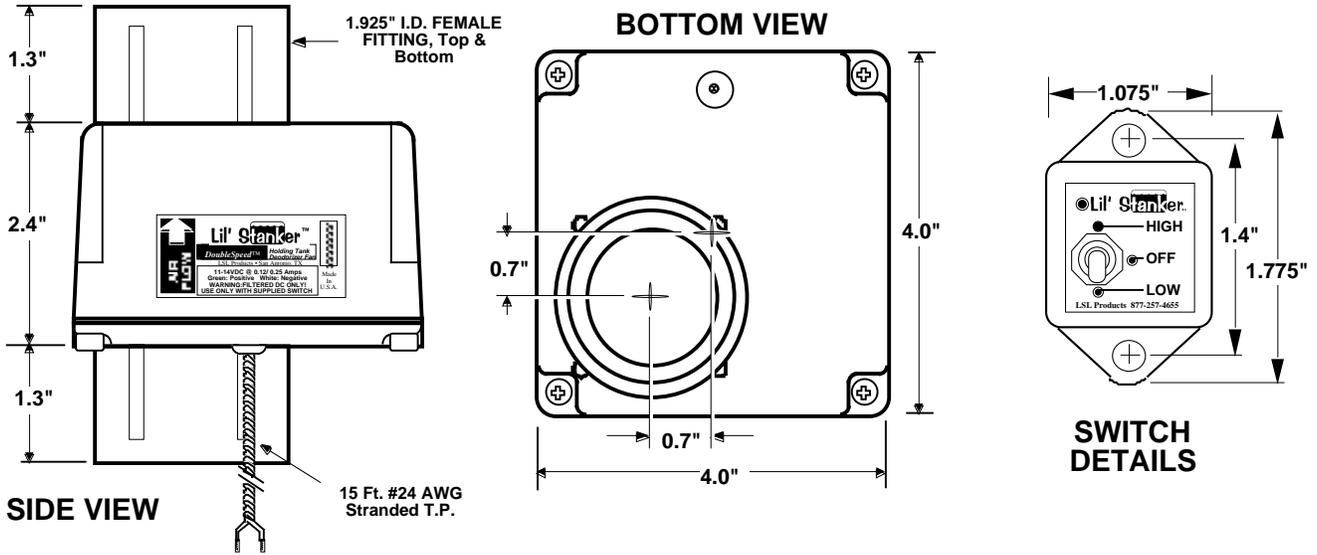
**OPERATION & MAINTENANCE** — To turn the fan on, flip the switch to either the LOW or HIGH positions (LOW is recommended for most conditions). The green indicator light on the switch will illuminate whenever the fan is running. The fan may be left on whenever the RV/Boat is occupied, but should be shut off before putting the RV/Boat into long-term storage. Whenever a ceiling vent fan is also used, it should be set to draw air INTO living areas, rather than pulling air OUTWARD; this will prevent the fans from working against each other. The DC brushless motor requires no maintenance. However, the debris screens located inside both pipe fittings (when present) should be cleaned every year or so. Replacement motors and other parts are available from the factory.

**WARRANTY**— LSL Products warrants this product for a period of ONE YEAR from the date of purchase against defects in materials and workmanship. PLEASE SAVE YOUR RECEIPT AS PROOF OF WARRANTY COVERAGE. This warranty is transferable. In the event a problem, LSL Products will, at its option, repair or replace any defective components, at no charge to the owner. (The owner is responsible for the shipping charges associated with initial return of the product; LSL Products will pay the shipping charges for returning a repaired product back to the owner). IN THE EVENT OF A PROBLEM, PLEASE CONTACT US PRIOR TO RETURNING THE PRODUCT. This warranty does not cover damage due to unreasonable use of the product. IN NO EVENT SHALL LSL PRODUCTS NOR ANY OF ITS REPRESENTATIVES BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. For parts & service, contact **LSL Products, 5804 Babcock Rd. #512, San Antonio, TX 78240 Phone (877) 257-4655.**

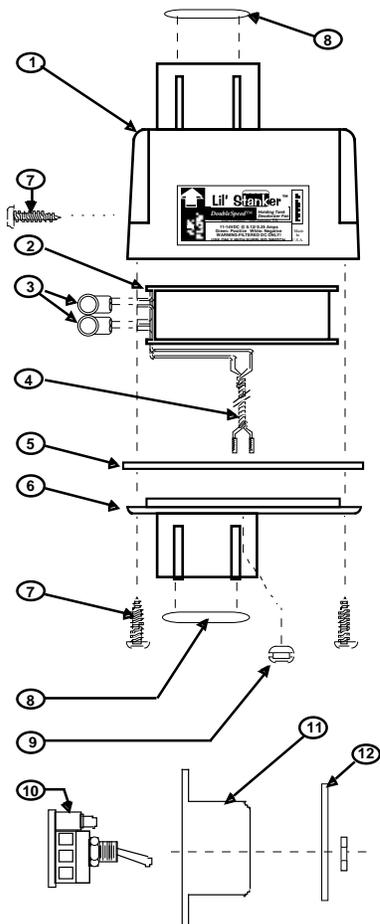
# SPECIFICATIONS — MODEL 19D

**Supply Voltage:** 11 - 14 VDC  
**Supply Current:** 100/200 mA Typ.  
**Air Flow:** 42 CFM (Free-Air, HIGH)

**Noise Level:** 26 dB - A (HIGH)  
**Weight:** 15 oz.  
**Motor Type:** Electronic, DC Brushless  
**Duty Cycle:** Continuous



(NOTE: 1-1/2" Fittings Shown; Other Versions Similar)



### Lil' Stanker In-Line DoubleSpeed™ Replacement Parts

QTY.	ITEM #	DESCRIPTION	PRICE EA.	ITEM TOTAL
1	1	Enclosure, 3/4" Pipe Fitting	22.50	
1	1	Enclosure, 1" Pipe Fitting	22.50	
1	1	Enclosure, 1-1/4" Pipe Fitting	22.50	
1	1	Enclosure, 1-1/2" Pipe Fitting	22.50	
1	1	Enclosure, 2" Pipe Fitting	22.50	
2	2	Fan Assy., 12 Volt	14.95	
3	3	Wire Splice, Button-Type	.25	
4	4	DC Power Wire, 15 Ft.	3.00	
5	5	Gasket, Bottom Cover	.75	
6	6	Cover, Bottom, 3/4" Fitting	3.00	
6	6	Cover, Bottom, 1" Fitting	3.00	
6	6	Cover, Bottom, 1-1/4" Fitting	3.00	
6	6	Cover, Bottom, 1-1/2" Fitting	3.00	
6	6	Cover, Bottom, 2" Fitting	3.00	
7	7	Screw, Cover or Motor Mount	.20	
8	8	Screen, Debris (optional)	0.75	
9	9	Grommet, Rubber	.25	
10	10	Switch Assy., With Indicator Light	8.95	
11	11	Switch Enclosure, With Decal	2.25	
12	12	Decal, External Switch Mounting	.30	

**LSL Products**  
 5804 Babcock Rd. #512  
 San Antonio, TX 78240  
 TOLL-FREE: 877-257-4655  
 www.LSLProducts.net

REV W

PARTS TOTAL:	5.80
PRIORITY MAIL SHIPPING:	5.80
TOTAL ENCLOSED:	11.60

NAME:	
MAILING ADDRESS:	
	DAYTIME PHONE:

No Minimum Order • No "Handling" Charges • Most Orders Ship Within 24 Hours