



# TJERNLUND PRODUCTS, INC.

1601 Ninth Street • White Bear Lake, MN 55110-6794  
PHONE (800) 255-4208 • (651) 426-2993 • FAX (651) 426-9547  
Visit our web site • www.tjernlund.com

## SIDESHOT® SERIES HIGH LIMIT REPLACEMENT INSTRUCTIONS

**OWNERS INSTRUCTIONS  
THESE INSTRUCTIONS MUST  
REMAIN WITH EQUIPMENT  
DO NOT DESTROY**

**ALWAYS FOLLOW HEATER MANU-  
FACTURER'S INSTRUCTIONS FOR  
PROPER OPERATION OF HEATER  
AND RELIGHTING OF PILOT**

### READ INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION

#### **WARNING**

Disconnect 115VAC power from the SideShot before continuing. All wiring from the SideShot to the appliance must be appropriate class 1 wiring as follows: installed in rigid metal conduit, intermediate metal conduit, rigid non-metallic conduit, electrical metallic tubing, Type MI Cable, Type MC Cable, or be otherwise suitably protected from physical damage.

NOTE: The High Limit Switch you are replacing may not be defective. Depress reset button on High Limit as noted in trouble shooting guide in SideShot instructions or call us toll free at 1-800-255-4208 to ensure you are replacing a defective High Limit.

1. Remove SideShot electrical box cover.
2. **MODELS SS1 & SS1C WITH CAPILLARY TUBE BRACKETS RIVETED**  
Using a 9/64" drill bit, carefully drill through (5) rivets holding High Limit capillary tube and bulb cover and (2) rivets holding High Limit to mounting bracket.  
**MODELS SS1, SS1C, SS1R & SS1W WITHOUT CAPILLARY TUBE BRACKETS RIVETED**  
Remove (5) screws holding High Limit capillary tube and bulb cover and (2) screws holding High Limit to mounting bracket or electrical box.
3. **MODELS SS1, SS1C & SS1W**  
Disconnect the BLACK (SS1) or BLUE (SS1C & SS1W) wire from the Fan Proving Switch and the BLACK (SS1) or BLUE (SS1C & SS1W) wire connected to B on SideShot terminal strip.  
**MODEL SS1R**  
Disconnect High Limit BLACK wire from M on terminal strip. Cut wire nut which connects the BLACK of High Limit, BLACK from M of Relay/Timer and BLACK from motor.
4. Remove defective High Limit from SideShot so capillary tube or bulb is not damaged voiding warranty.
5. **MODELS SS1 & SS1C WITH DATE CODES PRIOR TO 9518**  
Use provided High Limit mounting bracket if necessary. Carefully route High Limit bulb and capillary tube through bracket with wires towards electrical box. Using provided screws secure High Limit to mounting bracket.  
**MODELS SS1, SS1C, SS1R & SS1W WITH DATE CODES AFTER 9518**  
The provided High Limit mounting bracket is not necessary because High Limit installs directly onto SideShot electrical box. Carefully route High Limit bulb and capillary tube through electrical box and secure with provided screws.
6. Using the screws provided or that were existing, replace capillary tube and bulb covers on the SideShot.
7. **MODELS SS1 & SS1C WITH DATE CODES PRIOR TO 9518 AND SCREW TYPE TERMINAL BLOCK**  
Cut the 3/16" (small) terminated end of High Limit and strip 1/4". Route through electrical divider and connect wire into B on SideShot terminal strip.  
**MODELS SS1, SS1C & SS1W WITH DATE CODES AFTER 9518 AND SPADE TYPE TERMINAL BLOCK**  
Route the 3/16" (small) terminated end of High Limit through electrical divider and connect to terminal B on SideShot terminal strip.  
**MODEL SS1R**  
Install the 3/16" (small) terminated end of High Limit to terminal M on SS1R terminal strip.
8. **MODELS SS1, SS1C & SS1W**  
Install the 1/4" (large) terminated end of High Limit to the Fan Prover N/O terminal.  
**MODEL SS1R**  
Cut the 1/4" (large) terminated end of High Limit and strip 1/4". Strip the BLACK motor lead and the BLACK lead from M terminal of Relay/Timer. Join all 3 wires with the supplied wire nut.
9. Replace electrical box cover and cycle the SideShot and appliance through a couple of heating cycles to ensure proper operation.