

This publication contains the installation, operation and maintenance instructions for standard units of the TRE - Extruded Relief or Intake Ventilator.



**Carefully read this publication and any supplemental documents prior to any installation or maintenance procedure.**

Loren Cook catalog, *Gravity Ventilation*, provides additional information describing the equipment, unit performance, available accessories and specification data.

For additional safety information, refer to AMCA Publication 410-96, *Safety Practices for Users and Installers of Industrial and Commercial Fans*.

All of the publications listed above can be obtained from:

- [lorencook.com](http://lorencook.com)
- [info@lorencook.com](mailto:info@lorencook.com)
- 417-869-6474 ext. 166

For information and instructions on special equipment, contact Loren Cook Company at 417-869-6474.

### Receiving and Inspection

Immediately upon receipt of an TRE unit, carefully inspect it for damage and shortage.

- Check dampers (if supplied) for free operation of all moving parts.
- Record on the Delivery Receipt any visible sign of damage.

### Handling

Lift the unit by the base. Never lift by the tiers.

### Storage

If the fan is stored for any length of time prior to installation, store it in its original shipping crate and protect it from dust, debris and the weather.



TRE

## **!WARNING**

The attachment of roof mounted fans to the roof curb as well as the attachment of roof curbs to the building structure must exceed the structural requirements based on the environmental loading derived from the applicable building code for the site. The local code official may require variations from the recognized code based on local data. The licensed engineer of record will be responsible for prescribing the correct attachment based on construction materials, code requirements and environmental effects specific to the installation.

Failure to follow these instructions could result in death or serious injury.

### Installation

#### Damper and Curb Installation

Curb dimensions are calculated by adding 4" to the throat width and throat length.

The optional backdraft damper is 1-1/2" larger than the throat length and throat width. The damper is to be mounted in the throat of the TRE.

Optional filters are shipped installed in the unit from the factory.

#### Filters

Filter inspection and cleaning intervals can vary from once a week to twice per year depending on contaminant present and acceptable pressure drops across the filter. Under most conditions filters may be cleaned with hot water and a mild soap solution (such as dish washing liquid) or steam. Some caustic cleaners will damage the filter. If in doubt, please consult the factory for a compatibility list.

High pressure spray washers should be limited to 2,000psi operating pressure. Every attempt should be made to remove the contaminants from the filter in a "back-wash" flow (note airflow arrow on the filter frame). Once the filter is dry, it may be returned to the appropriate filter racks in the same orientation (airflow direction) as they were removed.

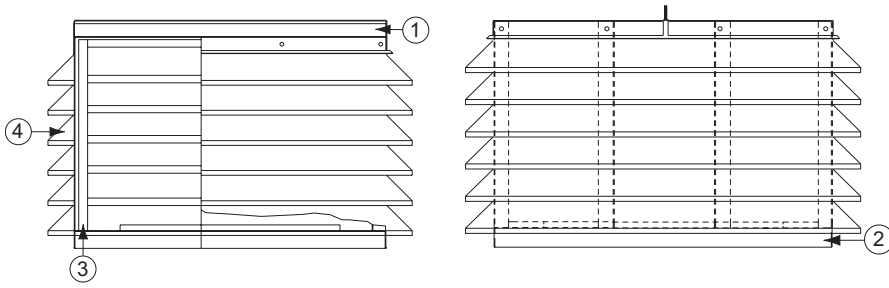
#### Maintenance

Establish a definite schedule per the manufacturers recommendation for inspecting any accessory filters or damper units that may have been installed with the ventilator.

Inspect the ventilator yearly for any debris that may obstruct airflow. Check exterior surfaces for dust and grease. To assure proper operation, remove any dust and grease from the TRE surfaces.

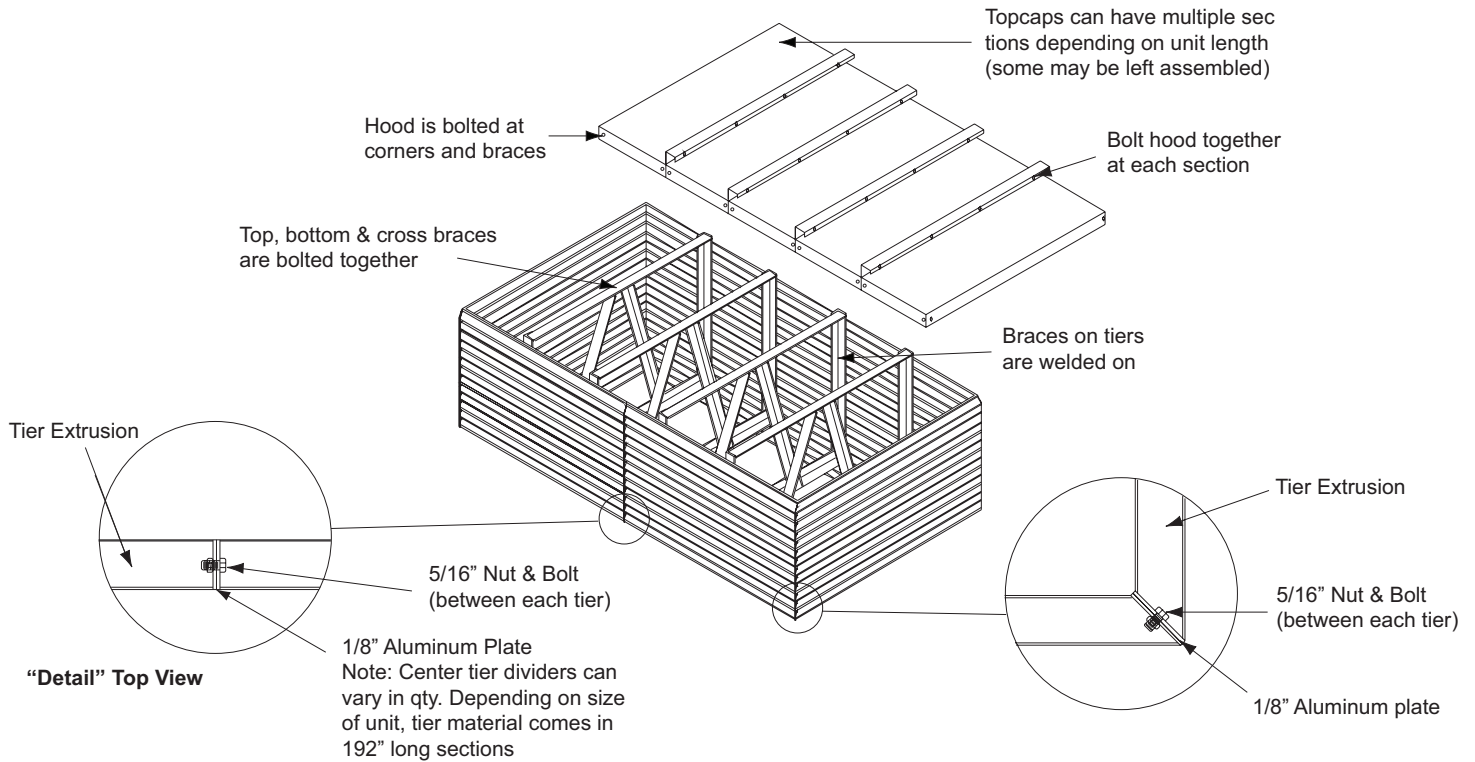
The TRE top cap may be removed for roof top access to the throat of the ventilator and access to the optional filters. Filters may be removed for cleaning and maintenance by sliding them up and out of the unit. Be sure to reinstall all top cap fasteners upon reassembly.

## TRE Parts List



Part No.	Description
1	Topcap
2	Base
3	Corner Post
4	Tier

## TRE Knockdown Installation Instructions



## Limited Warranty

Loren Cook Company warrants that your Loren Cook fan was manufactured free of defects in materials and workmanship, to the extent stated herein. For a period of five (5) years after date of shipment, we will replace any parts found to be defective without charge, except for shipping costs which will be paid by you. This warranty is granted only to the original purchaser placing the fan in service. This warranty is void if the fan or any part thereof has been altered or modified from its original design or has been abused, misused, damaged or is in worn condition or if the fan has been used other than for the uses described in the company manual. This warranty does not cover defects resulting from normal wear and tear. To make a warranty claim, notify Loren Cook Company, General Offices, 2015 East Dale Street, Springfield, Missouri 65803-4637, explaining in writing, in detail, your complaint and referring to the specific model and serial numbers of your fan. Upon receipt by Loren Cook Company of your written complaint, you will be notified, within thirty (30) days of our receipt of your complaint, in writing, as to the manner in which your claim will be handled. If you are entitled to warranty relief, a warranty adjustment will be completed within sixty (60) business days of the receipt of your written complaint by Loren Cook Company. This warranty gives only the original purchaser placing the fan in service specifically the right. You may have other legal rights which vary from state to state.



# LOREN COOK COMPANY

Corporate Offices: 2015 E. Dale St. Springfield, MO 65803  
 Phone 417-869-6474 | Fax 417-862-3820 | [lorencook.com](http://lorencook.com)