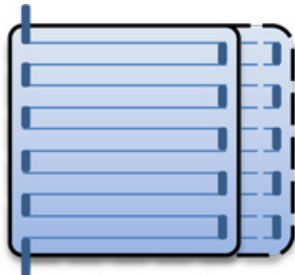


Defroster Data	Part Number: 1210-1114-L		
Drawing			
Description	Clear View Defrosters clear mist, snow and ice even in the most challenging winter conditions. These defrosters feature proven heating performance, a professional factory look and are available in hundreds of sizes in 12 and 24 volt systems.		
Overall Height	12.5 in (31.7)	Modulation*	50%
Element Height	11.25 in (28.6)	Timer Standard	10 Minutes
Elements	10 (2 x 5 line x 20 in)	Alt. Times (min)*	10, 20, 40, 80, 160, Manual
Tab Location	Left	* Requires ThermaSync 2812/2824 controls.	
Fuse	5 Amp		
Voltage	12 V		
Length	Min. 11 in (28)	Max. 14 in (36)	
Currents (Amp)			
Peak	6.2 A	4.9 A	
RMS	4.4	3.4	
Avg	3.1	2.4	
Stick Kit	-		
Document	1/20/2015		



**PLEASE READ THIS PAGE**

## **Clear View instructions come in two parts**

Clear View defrosters are high performance devices and rely on accurate installation to reliably melt snow and ice.

These instructions come in two parts, General Instructions and Attachment Two which is specific to each defroster.



Clear View Defrosters must be installed EXACTLY as shown in the instructions including Attachment Two.

Failure to follow the instructions will cause the defroster or control to fail and **voids any and all warranty and replacement policies.**

**Read the instructions carefully before beginning the installation**

## **Of special importance when installing Clear View Defrosters:**

### **Select a defroster that fits the window**

Respect the minimum and maximum allowed widths for the defroster.

### **All heating elements delivered with the kit MUST be used**

Adding or removing heating elements will cause the defroster to fail.

### **Follow the defrosters bus bar layout exactly**

The elements per buss bar and tab locations cannot be changed.

### **Make sure the window is CLEAN and DRY before installing**

Use the GAP-1 adhesion promoter supplied.

### **Apply the defroster grid at temperatures above 60° F (16° C)**

This helps the bonding tape to cure properly.

### **Review both the General Instructions and Attachment Two**

Do not rush into the installation. Review both instructions before starting installation.

**This attachment shows the defroster layout.**

**Do not change this layout when installing.**



#### **Planned Products LLC**

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Boulder, CO 80301-5307 USA

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Web: [www.frostfighter.com](http://www.frostfighter.com)



Parts List				Part Number: 1210-1114-L			
Item	Image	Description	Qty	Item	Image	Description	Qty
011		Defroster element rolls	-	021		Double stick bonding strips 12 1/2 in (38.1)	2
012		ThermaSync Defrost Control	1	022		Brass buss bars, w/ tab 1 1/4 in (3.18)	2
013		Activation switch	1	023		Brass buss bars, no tab 2 1/16 in (5.08)	2
014		Under dash switch mounting plate	1	024		Brass buss bars, no tab 2 3/16 in (5.55)	2
015		Fuse tap for ATO fuse	1	025		Brass buss bars, no tab 2 3/8 in (6.03)	5
016		"T" Tap for connecting power	1	026		Plastic cover, w/tab slot 2 3/8 in (6.03)	1
017		Female faston connector + Black snap-over connector cover	1/1	027		Plastic cover, w/tab slot 10 in (25.40)	1
018		Spade terminal	1	028		Plastic cover, no tab slot 12 3/8 in (31.43)	1
019		ATO fuse	1	029		GAP-1 Cleaning wipes	1
020		Mounting screws	4	030		Instructions and Attachment	1/1

## Wire Harness

Please see the electrical and wiring section of the Clear View II full instructions. Not included with Stick Defrosters

### Missing Something? Full or Stick Defroster?

Many Clear View defrosters are available in both full and stick versions.

**Full Defrosters** - Ideal for new installations these defrosters are complete including installation kit that make it easy to install and wire the Clear View defrosters.

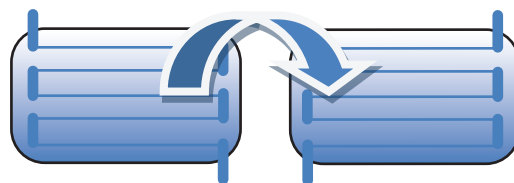
**Stick Defroster** - Best for defroster replacement. Stick kits include only the defroster and connect to a vehicles existing defroster wiring.

Stick Defrosters DO NOT include the ThermaSync Control, Wire Harness or installation kit including several of the parts listed above.

**See the full Clear View instructions prior to installing any Clear View II defroster.**

### Right or Left Tabs?

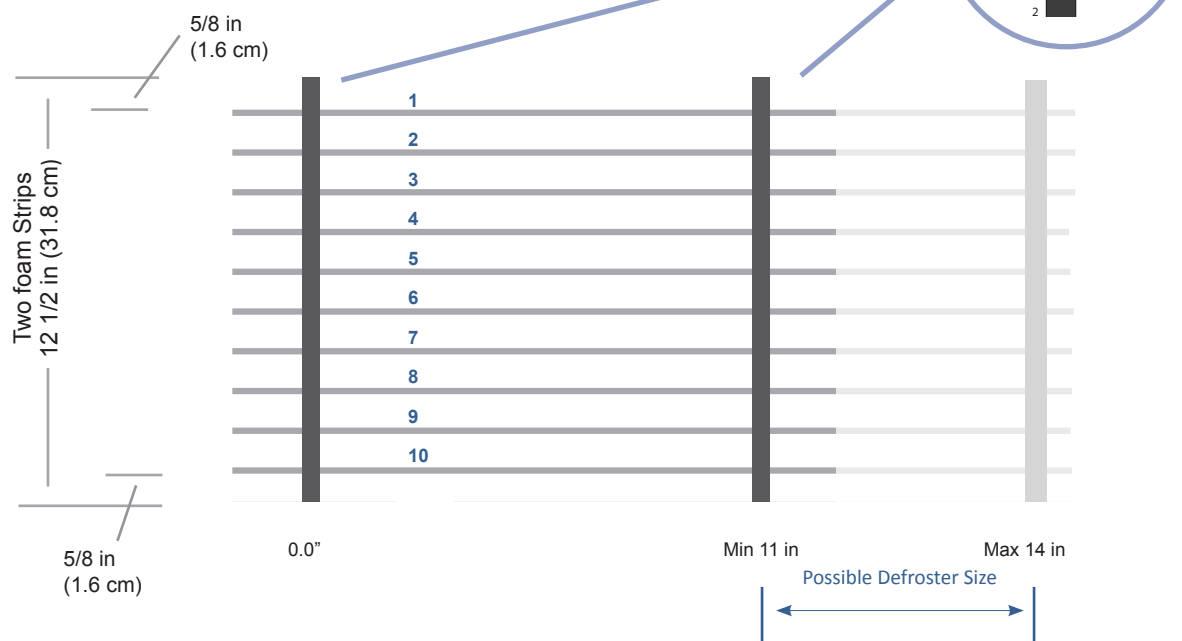
Clear View defrosters can be reversed (rotated) as needed for installation.



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## Foam Bonding Strip Layout

Please read full instructions before starting work



**Do not stretch the foam bonding strips**

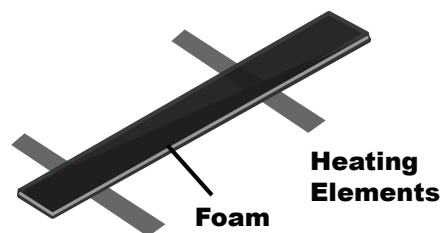
## Order of application

1. Defroster heating elements go down on the window first.
2. Double stick foam bonding strips are applied **OVER** the defroster elements.
3. Buss bars are bonded in place on the bonding strips.
4. Heating elements are brought over the buss bars with good metal-to-metal contact.
5. Plastic cover is put over elements.

Please read the instructions prior to starting work on the defroster.

### EXAMPLE ONLY

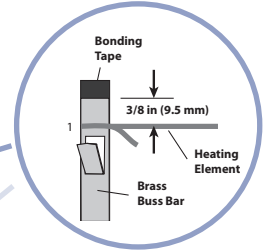
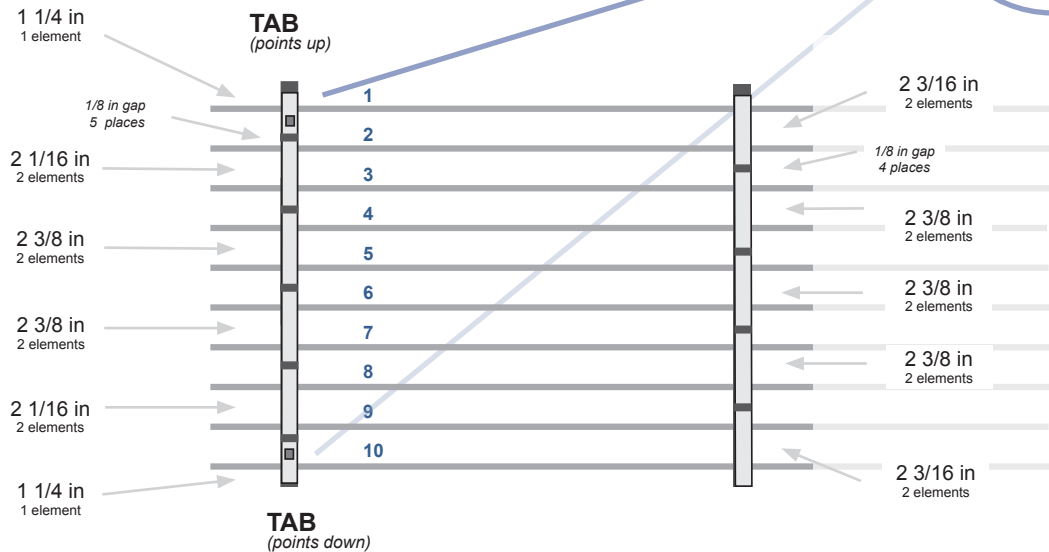
See layout above and Clear View General instructions



*Foam goes on top of defroster elements*

## Buss Bar Layout

Please read full instructions before starting work



The layout, number of elements per buss bar and the 1/8 in (32 mm) gap between are **CRITICAL**.

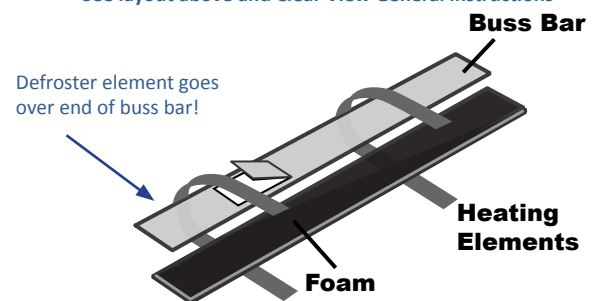
## Cautions

The layout shown above is critical to the function of the defroster. All heating elements **MUST** be used in the assembly and connected to the side buss bars as shown. Failure to use all the heating elements or change the layout on the side buss bars **WILL CAUSE THE DEFROSTER TO FAIL**.

See the Clear View Website for additional defroster sizes and ThermaSync defroster controls in 12 and 24 volt.

### EXAMPLE ONLY

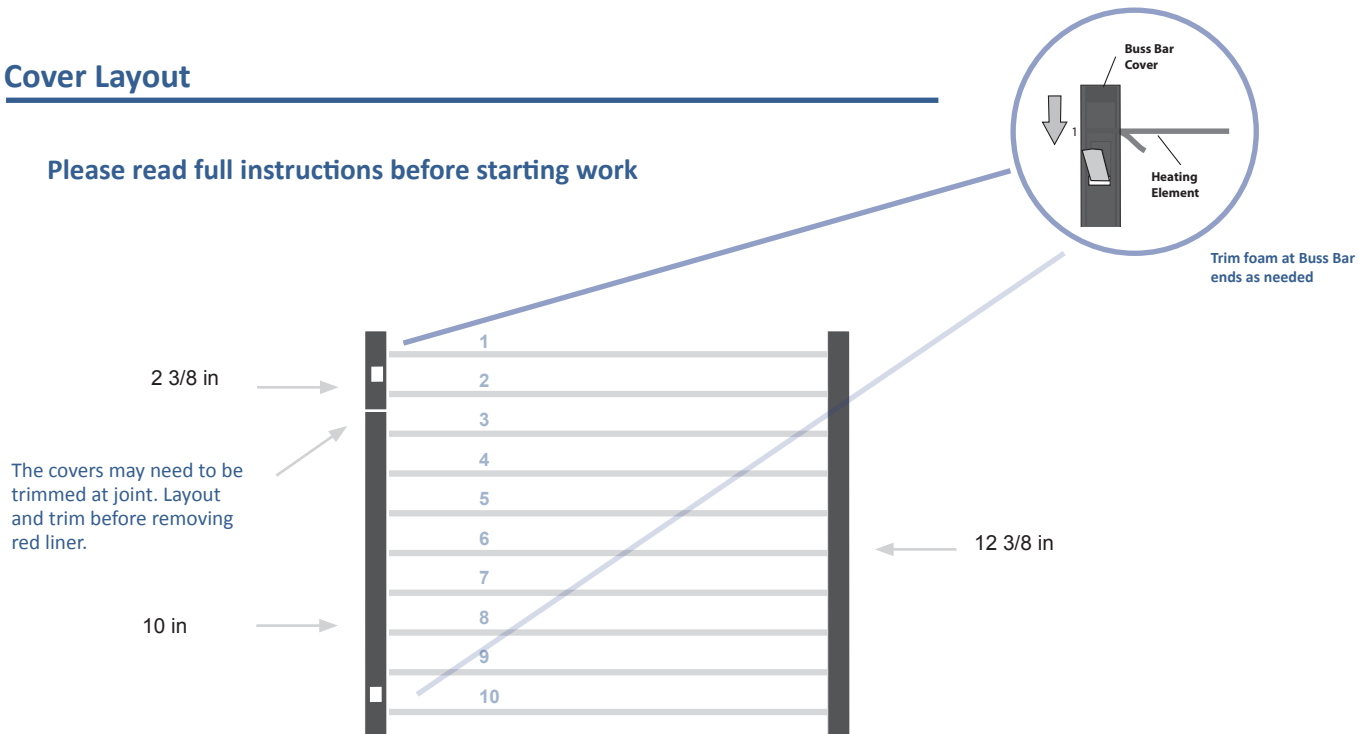
See layout above and Clear View General instructions



Defroster side buss bars go on top of foam as shown above.

## Cover Layout

Please read full instructions before starting work



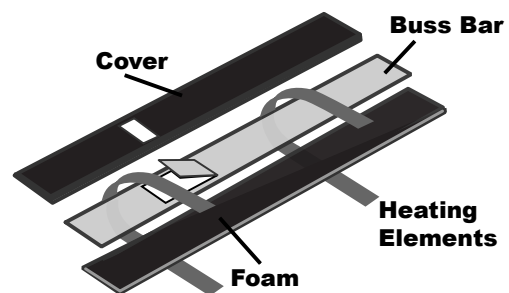
Apply the cover only after the elements have been connected over the buss bar. Press cover down firmly to seat adhesive.

## Buss Bar Covers

The buss bar cover bonds the heating elements to the buss bar.

Trimming covers to length may be needed for a perfect fit. It is important to align the covers with the buss bars and apply considerable pressure along the cover once installed to seat it on the buss bar.

Please review both the General Instructions and this attachment prior to installing the Clear View kit.



Defroster cover goes over brass buss bar  
AFTER elements are attached.

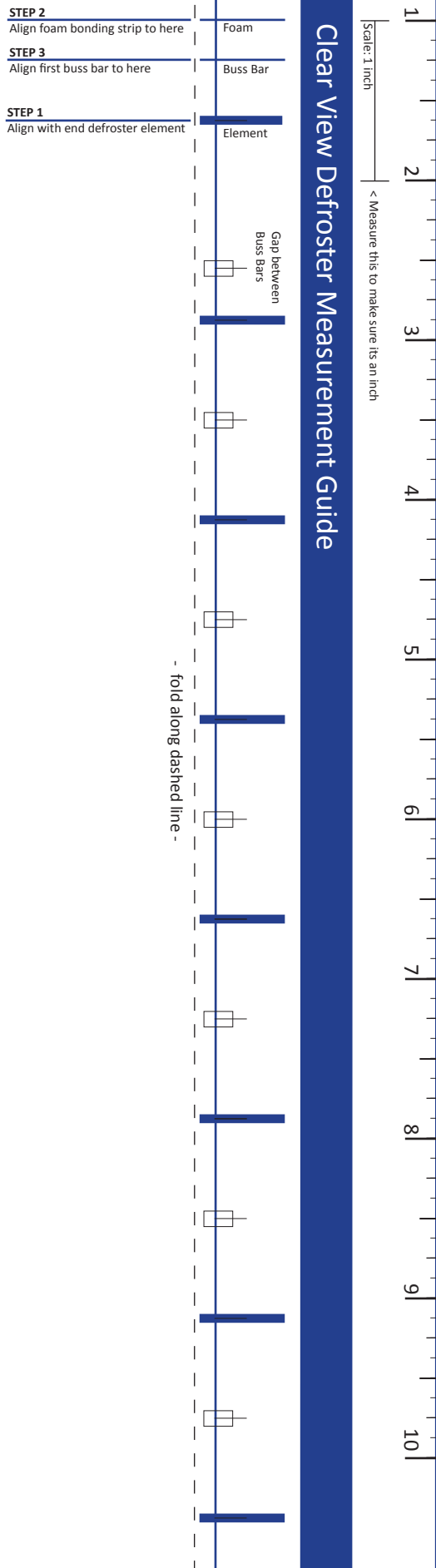
# Clear View Measurement Guide

World leader in aftermarket defrosters and defroster control solutions in 12 and 24 volt.

[www.frostfighter.com](http://www.frostfighter.com)

This guide is provided to help install Clear View II Defrosters.

## Clear View Defroster Measurement Guide



## STEPS

Printing can change sizes.  
Check that an inch here is an  
inch on a ruler.

### Fold the page on the dashed line

1. After elements are installed  
place the folded page along  
the defroster and align  
with top or bottom heating  
element.
2. Align foam bonding strip to  
top line.
3. Align end of the first buss  
bar to second line.
4. The gaps between bus bars  
are shown. See instruction  
Attachment 2 for layout.



Doctor Defroster says...

*"It really pays to understand  
the defroster installation before  
you start. Read the instructions,  
layout all the parts and the  
read the instructions again."*

- Doc

Defroster question?

[defrosterdoc1@frostfighter.com](mailto:defrosterdoc1@frostfighter.com)