

Frost Fighter[®] Clear View 2695 Defroster Timer Switch Kit

Professional rear window defroster repair kits and glass heating systems

www.frostfighter.com



The 2695 Frost Fighter Defroster Timer and Switch Kit provides reliable timing for high amperage circuits perfect for retrofit of trucks, tractors and other vehicles with existing defrosters, including side mirrors.

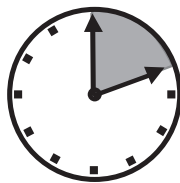
The switch is activated with a light touch triggering the timing relay and activating the red LED on indicator switch face. Once activated the timer says on for approximately eleven minutes before shutting off automatically.



Relay and Switch

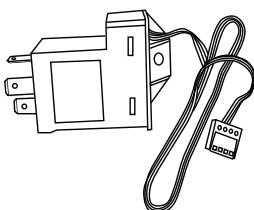
Frost Fighter Switch and Timing Relay

The switch and timing relay are easy to mount and come with a complete wiring harness (2695 Kit) including full directions for a professional look. The timing relay connects to the switch by a flat ribbon cable that allows the switch to be positioned nearly anyplace on the dash while the relay is secured out of sight.



Timer stays on for 11 minutes.

There are two mounting options when installing the switch in the vehicle. The switch can be mounted in dash by making a 1/2 inch hole on a flat portion of the dash. The other option (2695 Kit) is to mount the switch under the dash using the supplied mounting bracket.



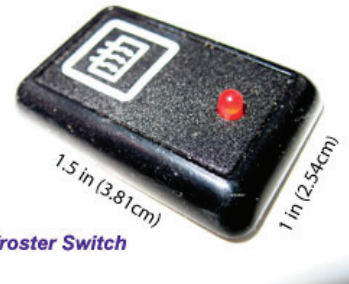
Fully illustrated instructions are provided with each kit including a detailed electrical guide.

The 2695 Kit comes complete with a full wire harness, additional connectors, fuses, in line fuse holder and wire taps.

The 2697 Kit includes only the switch and timing relay.

Technical

Voltage.....	12 VDC
Current Rating	20 Amps
Connectors250 Faston Male Tabs
On Timer	11 Minutes
Light.....	Red LED
Ribbon Cable	36 inches
Symbol	Defroster
Activation.....	One Touch
Off during cycle?	Yes
Switch Size.....	1.5 in. x 1 in. x 1/4 deep
Relay Size	2 3/4 in x 1 1/2 in x 1 in



Defroster Switch

Kits and Pricing

2695 Clear View Timing Relay & Switch Complete Kit

Includes the switch and timing relay, full wire harness, optional mounting plate with screws, 20 amp fuse with mount, sand paper, wire tap, additional connectors, wire ties and instructions.

Complete Kit - \$43.95

2697 Clear View Timing Relay & Switch Relay & Switch Only

Switch and timing relay plus instructions.

Relay and Switch Only - \$35.95

Planned Products LLC
5560 Boulder Hills
Longmont, CO 80503 USA
303.682.0274 Tel
303.682.0678 Fax

planned@boulder.net
www.frostfighter.com

Frost Fighter® Clear View 2695 Defroster Timer Switch Kit

Professional rear window defroster repair kits and glass heating systems

www.frostfighter.com



Electrical Connection - 2695 Complete Kit Only

Clear View 2695 Defroster Switch Kits come complete with all the wire and connectors needed to install the defroster. All wires are labeled for easy identification. Layout each wire and match the "W" number on the wire with the description.

2695 Wires Components and Marking

No.	Connection	Terminals End 1	End 2	Length
W-1	RWD* to switch	Faston + Clear Cover	Faston + Black Cover	20 Feet (7.6 m)
W-2	Switch to ground	Faston + Clear Cover	Spade Terminal	19 in (48 cm)
W-3	RWD to ground	Faston + Black Cover	Spade Terminal	42 in (107 cm)
W-4	Switch to fuse tap	Faston + Clear Cover	Bare, Not Stripped	30 in (76 cm)
W-5	Fuse to power tap	Faston + Blue Tab	Bare, Not Stripped	14 in (35.5 cm)
W-6	Ribbon cable from control module to switch (H)	Attached/control mod.	Plug	38 in (96 cm)

* RWD is Rear Window Defroster.



2695 Complete Wire Harness

Switch and Timer Wiring Diagram

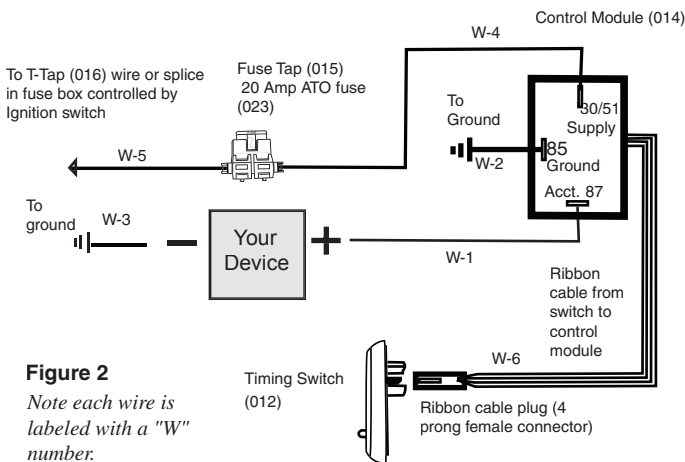


Figure 2
Note each wire is labeled with a "W" number.

STEP 1 - Wire control module

Start the installation by wiring the Control Module (Fig. 1). The module has three terminals each with an identifying number stamped in the plastic near their base. The legend for these numbers is located on the side of the module.

1. Attach wire W-1 (20 feet) to module terminal marked ACC 87 using the faston with the clear cover.

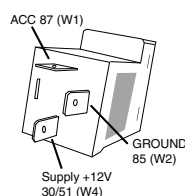


Figure 1
Control Module connector labeling.

2. Attach wire W-2 to module terminal marked Ground 85 using the faston with clear cover.

3. Attach wire W-4 to module terminal marked Supply +12V 30/51 using the faston with clear cover.

4. Attach the spade terminal of wire W-2 to electrical ground in an area behind the dash using one of the kits self-tapping screws if needed.

Warning: Use care if removing connectors from module as this can pull the module apart.

STEP 2 - Mounting control module & switch

Once all the wires are attached to the Control Module secure it behind the dash using wire ties, electrical tape or a self-tapping screw. **There are two ways to mount the timing switch.**

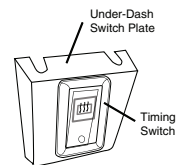


Figure 2
Use the Dash Switch Plate to mount the touch switch, or drill a 1/2 in hole for an in-dash installation.

Switch Plate Mount

1. Mount the dash switch plate (Fig. 4) in a convenient location with easy access to defroster on/off switch using the self tapping screws

2. Run W-6 (Ribbon Cable) through the back of the switch plate and insert the four prong connector into the timing switch, peel away the release film and adhere to plate with the red LED pointing down (Fig. 2).

In Dash Mount

1. If an in-dash installation is preferred drill 1/2 in (1.27 cm) hole in an appropriate area on the dash, run the ribbon cable through hole, connect the ribbon cable, remove the release film and press the switch into place.



STEP 3 - Wire fuse and tap vehicle power

Taping into the vehicles power is a critical step in the installation process. There are two ways to go about taping into vehicle power, using the **wire tap** or **splicing**.

Wire Tap

1. Near the fuse box locate a wire that is about the size of the W-5 wire supplied (14 awg) and is activated when the ignition switch is turned on.

2. Place the wire in the open channel of the Wire Tap (016) supplied, fold the tap body and crimp with pliers. (See Fig. 3 and 4)

3. Slide wire W-5 End 1 (blue terminal) onto the wire tap and secure any loose wire with a wire tie. (Fig. 5)

Splice

1. Cut off the connector (End 1) of wire W-5 and strip away insulation. Attach the end of wire W-5 to a fuse position or splice into wire which is activated when the ignition switch is turned on.

WARNING: In all cases the fuse and wire used must be adequate to handle 20 amps plus the amperage required by the other units on the same circuit.

Do not use Wire Taps on wire under 16 awg, over 14 awg or on solid wire.

Once wire W-5 has been connected to the vehicles power connect wire W-4 with W-5 using the Fuse Tap (015).

2. Locate the free ends of W-5 and W-4. Check wire lengths and trim to a comfortable length. **Do not strip back insulation.**

3. Insert the free end of W-4 into the Fuse Tap making sure to seat the wire through the tap so that it presses against the center stop in the Tap. (Fig. 6).

4. Repeat for wire W-5 End 2. Using pliers, fold the connector body and crimp. (Fig. 7)

5. Insert 20 amp ATO fuse supplied and seat it firmly in the fuse tap. It can take some pressure to seat. (Fig. 8)

WARNING: In all cases the ATO 20 Amp fuse and fuse tap MUST be used.

Vehicle power has been taped and now runs to the Control Module so it is time to run the wire (W-1) to the grid.

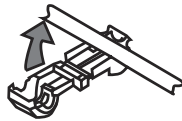


Figure 3
Tap into power wire controlled by ignition.

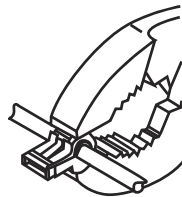


Figure 4
Fold and crimp

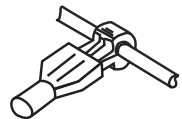


Figure 5
Insert W-5 in Wire Tap

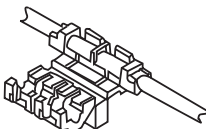


Figure 6
Connecting both wires

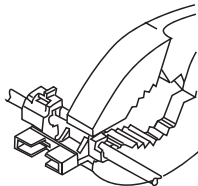


Figure 7
Fold the fuse tap and crimp.

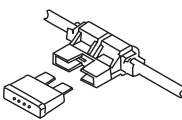


Figure 8
Insert and seat fuse.

STEP 6 - Connect to heating grid

1. Connect wire W1 to one of the integral tabs on the bus bar. If wire W-1 is too long it can be shortened. Use the extra faston terminal (021) supplied in your kit to attach in place of the one removed. Simply cut off attached faston and crimp on the new faston. You may need a crimp tool to do this properly.

2. Next attach wire W-3 (ground) to the other integral bus bar faston. Wire W-3 can be grounded in the trunk area by drilling a hole in the rear deck or it can be grounded to the rear window frame if it is metallic and grounds to the chassis.

3. Wire W-3 can be shortened and a forked terminal (022) can be crimped to permit attachment to the window molding or grounding area inside the trunk.

Parts List - 2695 Defroster Switch Kit

Take a moment to unpack and familiarize yourself with the various components of the Clear View Kit. The part's item number is referenced in the instructions. Items not shown: Two wire sets (see list under electrical connection)



Relay and Switch

012		1 Timing switch	021		1 Female faston connector
013		1 Under dash switch mounting plate	022		1 Spade Terminal
014		1 Control module and ribbon cable	023		1 ATO 20 Amp Fuse
015		1 Fuse Tap	024		4 Screws, self-tapping
016		1 T-Tap	025		2 Abrasive (sand paper) squares