

# VEI Systems Installation Instructions

## V1-VRD-Mx – Valentine One™ Remote/Concealed Display

Please read these instructions completely before beginning installation to ensure that you have the tools and skills necessary for installation and operation of this instrument. If you are not sure that you can perform the installation safely, then consult a qualified installer. Further instructions available at [www.VEISystems.com/technical.html](http://www.VEISystems.com/technical.html).

### INTRODUCTION

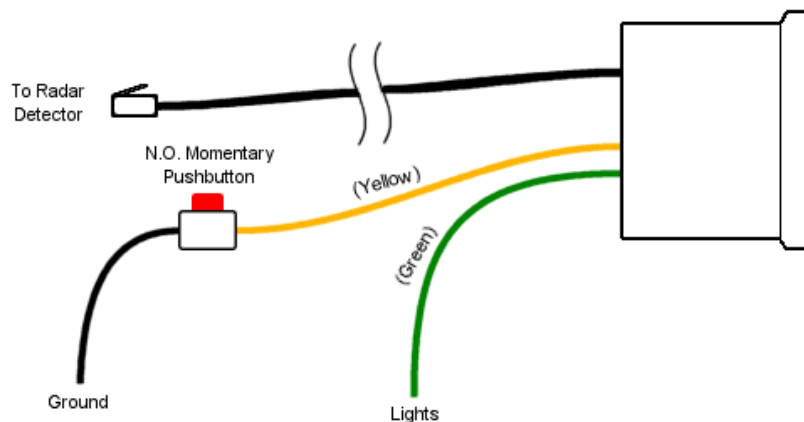
This instrument is a remote display for the Valentine One™ radar detector. With it, you can mount the radar detector in a location best suited for signal reception, yet be able to see the display in a location best suited for viewing. This instrument provides a mute-button function, as well as a remote mute button option. Audible warnings are still provided by the Valentine One™ radar unit.

### MOUNTING

Install the unit through the front of the mounting hole in the dash pod or panel. If you are making a custom dash panel, you will need to drill a 2-1/16" hole. Slide the clamp onto the 2 studs on the back of the instrument. Secure with the 2 thumb-nuts. Use a small drop of threadlocker or nail polish on the thumb-nuts to prevent them from loosening under vibration.

### WIRING

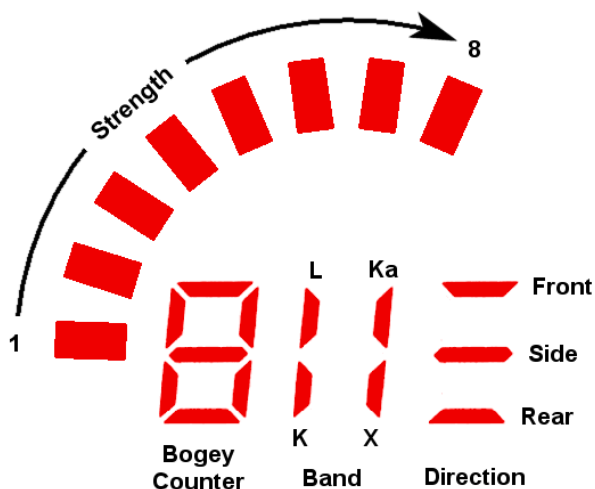
Except for the RJ11 connector, the wires should be connected as below using crimp-on butt connectors, or soldered and sealed with heat-shrink tubing. Before connecting any wires, you should either disconnect the battery power, or carefully connect the wires in the order shown. If not, you may damage the instrument. The V1 series instruments draws power from the RJ11 connector, and use an average of 105mA of current, and a maximum of about 175mA, so ensure the fuse is sized appropriately. For a typical 6- or 7-gauge setup, a single 5 Amp fuse is good.



- RJ-11 Plug– connect this to the remote-display port on the Valentine One™ radar detector, by simply pushing it into the jack until you hear it click. The remote jack is usually on the power adapter, although other arrangements are possible. See the Valentine One™ Owner's Manual or other appropriate documents for more information on appropriate connection positions. Be careful routing this wire behind the dashboard and other locations as the clip on the connector can get caught on other wires or other protrusions and break.
- This instrument comes with ~5.6 ft (~1.7m) of cable to the RJ11 connector. If you need to extend this, you can use an RJ11 extension, available at most electronics/phone-equipment stores. You can also use an F-F RJ11 coupler, with an RJ11 to RJ11 cable of the appropriate length, but ensure that this arrangement does not swap the wiring order, and that it extends/couples all 4 wires in the connector.
- GREEN – connect this wire to the positive line (+12V) from the headlight switch. When this line receives a positive voltage, the gauge will use the “park-lights” brightness setting. Alternatively, if setting up a racing-mode display, this can be connected to a separate mode switch (12V or 0V signal). If you choose not to use this feature, connect this wire to ground, to prevent picking up noise.
- YELLOW – this wire/feature is optional, for use of a remote mute/control switch. Connect this wire to one terminal of a normally-open (N.O.) momentary pushbutton switch. Connect the other terminal of the pushbutton to ground. If you choose not to use this feature, you must cover the bare end of this wire with tape to prevent it touching anything else. This wire MUST NOT come into contact with any positive voltage, otherwise it may damage the instrument.

## OPERATION

In normal operation, the display on the radar detector is translated over to this instrument, with the following format:



This arrangement was setup to match the Valentine One™ display as closely as possible...

- The strength meter is on the first 8 segments of the bargraph from left to right.
- The bogey counter is on the left numeric digit.
- The band indicators is shown with the middle numeric digit, with the positions shown.
- The right numeric digit shows the location of the radar signal(s). Only the segments shown are used.

With this arrangement, the display becomes very intuitive, and you'll probably only need to memorize the locations of the band indicators. However, that will become intuitive after a bit of use with it.

There are configurable modes on this instrument. Press and hold the button for a few seconds to change the mode. Press and release quickly (tap the button) to change the setting in any mode. Modes are as follows:

MODE	DISPLAY	SETTINGS
Normal	(Radar display)	Tap (and release quickly) to mute the radar detector.
Radar control	rc . A	Tap (and release quickly) the button in this mode to change the mode on the radar detector. This is essentially the same and pressing and holding down the button on the radar detector for a few seconds to change the mode.
Brightness Regular	Br . 9	Last digit shows regular brightness level from 1 to 9.
Brightness park-lights on	BP . 1	Last digit shows brightness level with lights on from 1 to 9.

## WARRANTY & LIABILITY

Neither VEI Systems, nor its dealers or agents shall be liable in any way, for any damage, loss, injury or other claims, resulting from the installation or use of this product. By purchasing or installing this product, you assume all liability of any kind connected with the use and/or application of this product. If you are unsure that you can safely install and use this product, consult a qualified installer or mechanic. The warranty on this product covers only the product itself for a period of 1 year from the date of purchase, and it will be at our discretion to repair or replace the affected parts.

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