



## RAD-1 User Manual



Left button  
Selects menu items

Right Button  
Adjusts Menu items. Off/On

Thank you for purchasing the RAD-1. This precision digital audio inclinometer is factory-calibrated to read 0 degrees in both X and Y axis when set in a level position. To install in vehicle, first make sure vehicle is level to within 1 degree in both axis, use a bubble level or equivalent if necessary. Attach RAD-1 unit to dash or windshield mount, turn on unit and adjust position until both X and Y axis read 0 degrees. Make sure the unit is tightly secured. The RAD—1 will now accurately display your vehicles angle in both axis from 0 to 60 degrees.

The RAD-1 will also provide an audio alert warning you when approaching a maximum angle that you have chosen and programmed into the unit's memory. The unit is designed to begin a beep sequence 14 degrees prior to reaching your maximum preset angle. This will provide advance warning when approaching your vehicle's maximum sustainable angle, thus allowing time for corrective action.

The RAD-1 will also store the maximum angle experienced by the vehicle. Decimal points in the angle values indicate a negative angle relative to the driver's position. The RAD-1 is designed for speeds below 5 MPH, and the speeds in excess of 5MPH will skew the unit's internal sensors used to calculate angle of inclination.



**Warning!**

By using this product, you agree that you alone are responsible for your vehicle's performance, and you indemnify Innovate for any damages.

## Operating the RAD-1:

Pressing left button:	
Once	<b>Uo</b> - Volume, toggle by pressing the right button. Press left button again to select desired value and advance menu to recall maximum angles.
Twice	<b>rP</b> - Recall Passenger (Recall of maximum angle experienced in positive tilt (passenger seat up).
3 times	<b>rD</b> - Recall Driver angle in positive tilt.
4 times	<b>rF</b> - Recall front angle (Front of vehicle pointed up)
5 times	<b>rb</b> -Recall back angle (Rear of vehicle pointed up)
6 times	<b>rE</b> -Recall angle erase. Press right button to erase all values. Press left button to advance to set passenger maximum angles.
7 times	<b>SP</b> -set passenger maximum angle. Press right button to toggle thru values from 0 to 60 degrees. Pressing left button will set desired value and advance to set driver maximum angle.
8 times	<b>Sd</b> -Set driver maximum angle. Press right button to set. Press left button to advance to next item.
9 times	<b>SF</b> -Set front max angle. Press right button to set. Press left button to advance.
10 times	<b>Sb</b> -Set back max angle. Press right button to set. Press left button to advance.
11 times	<b>br</b> -set brightness. Press right button to toggle through bright and dim setting.
12 times	Return to normal operation
To turn unit OFF:	Press and hold the right button (from normal operation, not in set up) for 2 seconds.
To turn unit ON:	Press right button for 1 second.
Inactivity:	During set up mode, if the unit is left unattended for 15 seconds the display will return to normal operation

## Other Notes:

Your vehicle's center of gravity depends on many factors, including weight, ride height, wheelbase and axel width. Generally speaking, a higher vehicle with narrow axel width and short wheelbase will tip over at a lower angle than a vehicle that is lower to the ground with wider axels. Adding weight to the upper portion of your vehicle will also change its center of gravity. The RAD-1 is designed to aid in your understanding of the characteristics of your vehicle.

Always use caution when operating off road and never exceed the limits of your vehicle.



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