Made in America **Lifetime Guarantee**

Thank you for purchasing this instrument from Intellitronix. We value our customers!

INSTALLATION GUIDE

Digital RPM 3 Mode Window Switch
Part Number: N3211

After completing all wiring reconnect battery and power up the unit. Test all gauges before reinstalling dash, bezels, and hardware to prevent having to remove it all for any future troubleshooting.

Always disconnect the battery before attempting any electrical work on your vehicle.

Note: If you do an LS engine swap, pick up the tach signal wire from the ECM/ECU and then set the tach switch to 4-cylinders.

INSTALLATION

- **Black**, Wire to the vehicle engine block ground. The engine block should have heavy ground cables connected to the battery, frame, and firewall.
- **Red**, Wire to switched +12V power from the fuse panel or vehicle wiring harness. (Recommended to use at minimum a 3-amp inline fuse). This wire should have power when key-on and starting ignition.
- **Violet**, Wire to the +12V side of the parking lights. This will dim the dash lighting 50% when your headlights turn on.
- **Gray**, Wire to the negative terminal of the ignition coil, or if using a high energy CD ignition, connect to the tach output of your ignition system instead of the coil.
- **Blue,** Wire to the negative/ground side of the device that you want to activate at the desired RPM.

Most Late Model vehicles that do not have a distributor or have multiple coils will require the use of a Tach Adapter.

NOTE: If the device to which the blue wire is attached draws more than 3 amps, a relay must be used to drive that device or damage will occur to the unit.

- If your vehicle has a **separate ignition coil**, connect the gray wire to the **negative** (-) side of the coil – the wire that goes to the points or electronic ignition module.
- If your vehicle has a **GM HEI ignition**, connect to the terminal marked 'TACH', or, on some systems, a single white wire with a spade terminal.
- If your vehicle has an **after-market ignition** – some systems will connect to the TACH output terminal.
- If your vehicle has a **computer-controlled ignition** system, consult the service manual for the wire color and location for Tach signal output.
- If your vehicle has a **magneto** system, connect the tach signal wire to the negative side of the coil. **Do not** connect the tach terminal to the positive (+ *or* high voltage) side of the ignition coil.

OPERATION

Note: You must set window settings before starting the engine. To reset to default settings with ignition off press and hold both buttons then turn ignition on, and this well reset to factory. Changing a setting is confirmed by a slight blink in the display. Wait for blink after a change, before starting engine

Modes:

1. The first menu item allows selection of one of three modes: 1L, 2L, 2Lb
   - **Window Mode 1L**: User enters one RPM value. If measured RPM is over that the value switch activates. If RPM is below that value, switch deactivates.

- **Window Mode 2L**: User sets two limits, first is low limit, second is high limit. If measured RPM is within those limits, switch activates. If measured RPM is outside limits switch deactivates.
- **Window Mode 2Lb**: Same as Window Mode 2L, except once measured RPM leaves window, it only re-activates once it enters the window from the low limit side.

2. Second menu sets limits.
   - One setting only if using Mode 1L
   - Low and High setting for modes 2L and 2L

3. Third menu allows selection of cylinders display shows: 1cyL 2cyl 4cyL 6cyL 8cyL 10cy 12cy

4. Fourth menu allows switch to be set to Normally Open (NO) or Normally Closed (NC).
   - Normally open, switch activation closes switch.
   - Normally closed, switch activation opens switch.

5. Fifth menu displays 8800. Pressing the left button will chang to 8880 and 8888. This means the display will give you an RPM reading in hundreds, down to the tens digit, or down to the single digit.

NOTES: The switch connects to the ground side of the equipment being activated.

- Either button will display high RPM memory recall.
- A blue LED will indicate when the switch is activated.