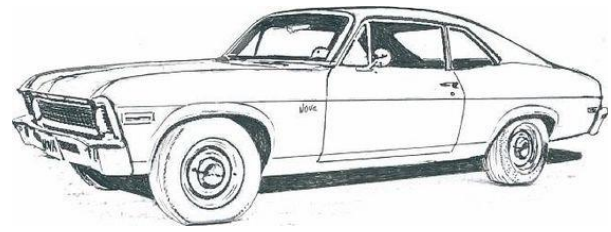


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Thank you for purchasing this dash panel from Intellitronix. We value our customers!

INSTALLATION GUIDE

Chevrolet Nova Digital Dash Panel

Part Number: DP 8001

Year Series: 1963 - 1965

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

KIT COMPONENTS

- ◇ **One (1) Digital Circuit Board with gauges**
- ◇ **One (1) smoked acrylic lens**
 - * Peel off protective covering from both sides.
- ◇ **One (1) acrylic backing plate**
- ◇ **One (1) Temperature Sending Unit (S8013)**
 - * 1/8" NPT, 0-255 Deg., 1/2" NPT Bushing
- ◇ **One (1) Pressure Sending Unit (S8434)**
 - * 1/8" NPT 0-100 PSI Oil Pressure
- ◇ **One (1) Universal Speedometer Sensor (S9013)**
 - * 7/8" NPT Industry Standard threads
- ◇ **One (1) Mounting Kit:**
 - * Four (4) each nylon washers, screws, spacers and nuts

DASH PANEL INSTALLATION INSTRUCTIONS

Stock Gauge Removal and Reassembly

- ◇ Remove gauge cluster from dash and remove all gauges and housing, retaining only the metal bezel and the four (4) factory screws with it.
- ◇ Place smaller piece of acrylic in factory bezel. (Each end is marked with an "L" or "R" to indicate its proper side when looking at it from the back while placing the lens in the bezel.)
- ◇ Attach the larger piece of acrylic to the back of the provided circuit board using the mounting kit with the spacers between the two. Feed the wires through the slot in the acrylic.
- ◇ Place the circuit board in the bezel and, using the factory screws, mount the back plate to the bezel.
- ◇ After connecting the wires, replace the panel into the vehicle.

WIRING INSTRUCTIONS

Note: *Automotive circuit connectors are the preferred method of connecting wires, although you may solder if you prefer.*

Ground – Black This is the main ground for the display system. A wire should be run from this board to the vehicle's main chassis ground. Use 18 AWG or larger wire to ensure sufficient grounding. Proper vehicle grounding is extremely important for any gauges (or electronics) to operate correctly. The engine block should have heavy ground cables to the battery, frame, and firewall. Failure to properly ground the engine block, senders, or digital dash panels can cause incorrect or erratic operation.

Power – Red Connect the power terminal to accessory +12V power from the fuse panel or vehicle wiring harness. This terminal should have power when the key is on or in accessory position. Use 18 AWG wire to ensure the system receives a sufficient power feed.

Dimmer – Purple Connect to the parking lights to dim the LEDs 50% when the headlights are on. However, **do not** connect to the headlight rheostat control wire, or the dimming feature will not work properly.

Turn Signals – Grey Two 18-gauge wires, one for each signal. Each wire is labeled on the printed circuit board as 'LEFT' or 'RIGHT'. Connect each wire to its corresponding indicator circuit.

High-Beam – Brown Connect the brown wire on the speedometer panel to your high beam headlight.

Brake – Tan Connect to the brake indicator.

Fuel – Yellow Connect to the factory fuel sending unit.

Oil Pressure – Orange Replace the existing oil pressure sending unit with the unit included. **Do not** use Teflon tape or other sealer on the new sending unit's threads. This will avoid inaccurate ground connections as the sending units get their ground from the threads. The oil sender gets its ground from the threading into the engine block, thus proper grounding is crucial. Connect to the sending unit.

Water – Blue This gauge is incompatible with other sending units, so you must replace the existing water temperature sending unit with the included sender. **Do not** use Teflon tape or other sealer on the new sending unit's threads to avoid inaccurate readings. Connect the blue wire to the sending unit.

Trip/Cal Button – Grey There are grey wires connected to the push-button on the speedometer board. Mount the switch in a convenient location such as under the steering column so that you may easily reset your trip odometer or other speedometer functions.

Tachometer (memory capable) – Green

If your vehicle has a **separate ignition coil**, connect the green 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.

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.

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

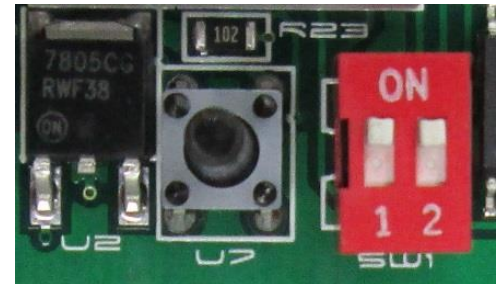
To set the tach, use the Tach Selector (DIP Switches), which is located below the tachometer display. The default tach setting is for an **8-cylinder** engine, (both switches UP, as shown).

For a **4-cylinder** engine, set the DIP switches as

Switch 1: DOWN and Switch 2: UP.

For a **6-cylinder** engine, set the DIP switches as

Switch 1: UP and Switch 2: DOWN.



To recall the highest RPM achieved, simply press and release the button near the tach readout. To reset the peak RPM value, press and hold the button until the RPM displayed value is zero.

Speedometer – White Disconnect the mechanical speedometer cable from the transmission and thread the new electronic sensor onto the transmission. This unit comes with a 3-wire sensor. If you are using this sensor, the white wire is the speed signal; connect this to the speed signal wire on your gauge. The red and black wires in the cable are power (12VDC) and ground, respectively. Twisting the ground and signal wires around each other will provide an additional level of interference protection. The speed signal wire should not be routed alongside the tachometer, ignition, or any other high-current or high-voltage wires. For vehicles which have a vehicle speed signal from a transmission or ECM, tap into the VSS wire (consult a vehicle service manual or wiring diagram to determine the correct wire color) and connect it to the white speed sending wire on the digital dash. **Note: If your vehicle is equipped with an electronic transmission, your electronic vehicle sender will have either two or three wires.**

To ensure that the ignition system does not interfere with any other dashboard functions, do not run the tachometer wire alongside any other sender or input wires. **Do not** use solid core spark plug wires with this dashboard system. Solid core ignition wires cause a large amount of electromagnetic and radio frequency interference which can disrupt the system's operation.

To recall the highest RPM achieved, simply press and release the button near the tach readout. To reset the peak RPM value, press and hold the button until the RPM displayed value is zero.

CALIBRATION

Note: If using the Intellitronix GPS Sending Unit, (\$9020 – not included) the speedometer does not need to be calibrated.

The speedometer leaves the factory with a pre-set industry standard setting of 8,000 pulses per mile. Chances are that you may not need to recalibrate your speedometer, unless you have changed the original tire size or the rear end gear ratio.

Note: *Do not attempt to calibrate your speedometer until after it is working properly and you have determined that the speed is incorrect. The calibration procedure will NOT correct a faulty installation or improper wiring. If you attempt to recalibrate your speedometer without making sure the speedometer is receiving pulses from the sending unit, the speedometer will display 'Err' and default back to the factory settings.*

To calibrate:

1. **Locate a measured mile where you can safely start and stop your vehicle.** By running the vehicle over this measured distance, the speedometer will learn the number of pulses outputted by the speedometer sensor during a specific measured distance. It will then use this acquired data to calibrate itself for accurate reading. There is a small recall push-button in the center of the panel used to calibrate and read all of the data stored in the speedometer. After installing your speedometer according to the wiring instructions, when the ignition is on it should immediately display the default screen of 0 MPH, if the vehicle is not moving.

NOTE: You will then need to drive your vehicle to the predetermined measured mile. During this trip, the speedometer should read something other than 0 MPH. If it does not change, return and locate the problem before continuing. Otherwise, proceed with the calibration.

2. Stop at the beginning of the measured mile with your vehicle running and in odometer mode (NOT trip mode), press and hold the push-button until the odometer displays 'HI-SP'. On its own, the gauge will then cycle through the recorded performance in the following order: '0 – 60', '1/4', 'ODO', and 'CAL'.
3. While 'CAL' is displayed, quickly tap the push-button once. This will put the speedometer in Program Mode. If you did not tap while 'CAL' is displayed, the pulses per mile will be displayed on the odometer and the display will go back to MPH mode. Otherwise, you will now see 'CAL' displayed along with the number '0'. This indicates that the microprocessor is now ready for calibration.
4. When you are ready, begin driving on the metered mile. You will notice that the reading will start counting up. The odometer will begin to display the incoming pulse count. Drive the vehicle through the measured mile (speed is not important, only the distance traveled).
5. At the end of the mile, stop and press the push-button again. The odometer will now display the new number of speedometer pulses that were registered over the distance. The odometer will continue to display the pulse reading for a few seconds. Once it reverts to the default mode, you have successfully calibrated your speedometer.

Warning: *If, while in 'CAL' mode, you do not move the vehicle and press the button again, the microprocessor will NOT have received any data and the unit will display 'Err' and will revert to the factory settings. At a minimum, drive some distance and return to the start if necessary. If you miss stopping the display at 'CAL', simply repeat the steps.*

Trip Distance

A single *tap* of the recall button will activate the trip meter in the odometer display. A decimal point will appear which will indicate that you are in trip meter mode. *Holding* the recall button will clear out the trip distance. To return to the default odometer display, *tap* the recall button again. The decimal point will disappear, indicating that you are back in the default odometer display.

Setting the Odometer

While scrolling through 'CAL' mode you will see 'ODO' appear. This will allow you to enter the vehicle's actual mileage. Press the trip button again at this point and you will enter the odometer set up mode. Press quickly to change the number of the digit on the right. Press and hold to advance to the next digit. Do this for all 5 digits. ***For Example:*** To enter the mileage reading 23456 into the odometer, at the 'ODO' prompt, tap the small black button (quickly) two times, until the number **2** is displayed. Then press and hold the button until the numbers **20** are displayed. Tap the button 3 times until **23** is displayed. Press and hold the button until **230** is displayed, and continue in this manner until **23456** is displayed. The speedometer will advance to the home screen, five seconds after the last number is entered.

Recording and Viewing Performance Data

Follow these steps to record and recall Performance Data (high speed, ¼ mile ET, and 0-60 time):

1. Before each run, your car must be at a complete stop at the starting position. *Press and hold* the push-button as it cycles through the performance data. At the end, the odometer will reset and all performance data will be cleared. This will not affect your stored calibration value or the odometer reading.
2. Press the push-button until 'HI-SP' is displayed. The gauge will automatically cycle through the performance data.
3. Start the run, pass, session, etc., as mentioned above.
4. When finished, repeat *Step 2* to view the data gathered from the run. While stopped, you can view this data as often as you wish. However, once it finishes scrolling one time, the memory is ready to record new data and will begin recording again once the vehicle starts to move. The highest speed measured over multiple runs will be retained in memory.