

Nitrous Express Fire & Ice Pressure Controller

PN:SPEED00020

The installation of the NX Fire & Ice Pressure Controller is a simple and straightforward procedure, however anytime you are dealing with dangerous high-pressure cryogenic gases and electrical connections extreme caution must be exercised. If you do not have the proper tools or the experience to complete this installation please consult a professional for help.

1. Before beginning the installation the Fire & Ice Control (FIC) unit must be calibrated to the correct bottle pressure. All NX systems operate at 1050PSI. Check with your nitrous kit manufacturer to determine their operating pressures. To calibrate the unit remove the four retaining screws on the face of the black controller box. Carefully remove the unit face to expose the internal workings of the control unit. In the lower center of the box is an adjusting knob, carefully adjust the setting to correspond to the correct pressure for your nitrous system. (Figure 1). All NX Systems must be set on 9.

- 0=850
- 1=875
- 2=900
- 3=925
- 4=950
- 5=970
- 6=990
- 7=1010
- 8=1030
- 9=1050

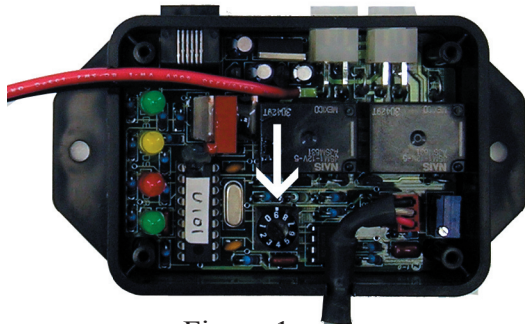


Figure 1

2. Begin the installation by removing the rear, or bottom, bottle bracket T bolt (Figure 1) on the nitrous bottle. Replace the existing “T” bolt with the one supplied in the Fire & Ice Controller (FIC). If your kit uses a different style of clamp order PN 11106.



Figure 1

3. With the “T” bolt changed the FIC may now be attached to the nitrous bottle by inserting the FIC under the now extended bracket. (Figure2) Tighten the clamp securely to ensure **complete** surface contact between the bottle and the FIC. Be sure the FIC makes full and complete contact with the bottle surface. Do not place the FIC over the bottle decal or anything else that might prevent complete contact with the bottle surface. This is essential for satisfactory unit performance.

Figure 2



4. Now you are ready to mount the FIC controller. This unit must be mounted within the length of controller wiring harness, do not cut or splice any wiring! If you wish to view the control unit status from the cockpit a remote display unit PN00021 is sold separately.

5. Close the bottle valve completely and carefully remove the nitrous supply line from the bottle nipple. Liquid nitrous oxide can cause severe freeze burns, take care to slowly vent any liquid nitrous in the supply line by loosening the line slowly until the pressure in the line escapes. Using the supplied thread sealant install the pressure transducer into the blue adaptor manifold. Install the adaptor manifold onto the bottle nipple and reconnect the nitrous supply line.

6. Before beginning the wiring portion of the installation disconnect the negative battery terminal. If necessary consult a shop manual for the car you are working on. Connect the wiring harness from the FIC controller to the heating/cooling unit. Connect the Pressure transducer to the control unit. Wiring the FIC controller is a simple two-wire connection (Power & Ground) with an "ON"- "OFF" toggle switch in line. The NX FIC is capable of operating with either 12-volt or 16-volt systems. When wiring for a 16 volt system you must cut the blue wire on the FIC unit (Figure 3). The FIC Controller is capable of operating two FIC units for dual bottle setups. Order PN SPEED00022 for dual bottle operation; this part number is the heating/cooling unit only. If desired a 10 amp fuse (not included) may be installed in the power supply line to the FIC, if dual heating/cooling units are used a 20 amp fuse is required.

Control Unit LED display(In order):

Green: Flashes when pre-set pressure is achieved

Yellow: Cooling mode

Red: Heating Mode

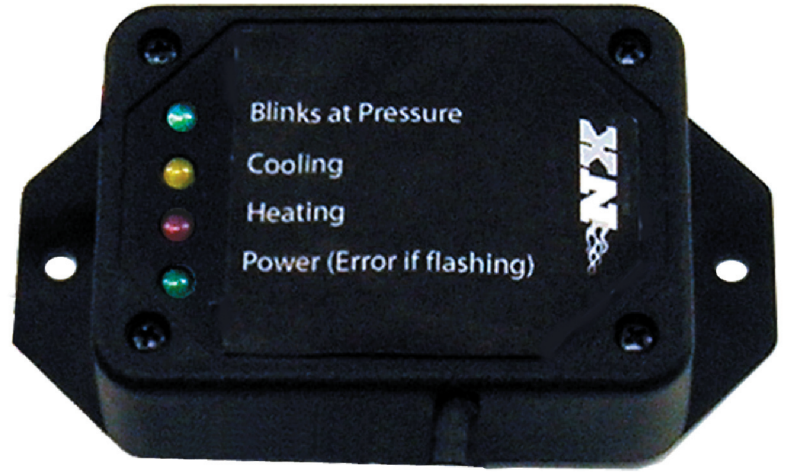
Green: This green indicator lights continuously if the unit is operating properly. If this indicator light is flashing:

Flashes once, then pauses and flashes again continuously, if no pressure is sensed. (Bottle valve is closed or nitrous bottle is empty)

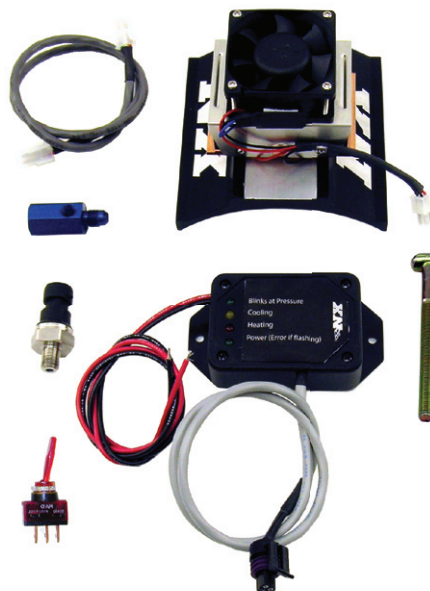
Flashes twice, then pauses and flashes twice again continuously if no change in pressure occurs within 10 minutes of FIC activation. (Line has pressure but the bottle valve is closed; or low nitrous level in bottle not allowing a pressure change in 10 min.)

After wiring the system as per instructions, open the bottle and turn the arming switch on. The bottom green LED should light with one of the other indicators glowing to show bottle pressure status.

The Fire & Ice Bottle Pressure Controller is now ready to provide you years of trouble free service. If you have any problems or questions call NX Tech @ 940-767-7694 Mon-Fri 9 AM-5PM.



Complete Fire & Ice Pressure Control System



Remote Display
PN00021