



# Propane/CNG Solenoid Valve Controller

C-1B-R (Black, Round, 12V Solenoid)  
C-1B-24-R (Black, Round, 24V Solenoid)  
C-1C-R (Chrome, Round, 12V Solenoid)  
C-1C-24-R (Chrome, Round, 24V Solenoid)

Owner's Manual  
&  
Installation Instructions

Read and comply with all instructions, warnings and limitations before installing, servicing or removing this device.

Additional copies of this manual are available on the Fireboy-Xintex website. Fireboy-Xintex reserves the right to change features without notice.

General Information	3
Specifications	3
Operation of Xintex Solenoid Valve Controller(s)	4
Installation	6
Installing the Control Unit (C1BR-01-D/C1CR-01-D)	6
Installing the Solenoid Valve for LPG Applications	6
Installing the Solenoid Valve for CNG Applications	6
Electrical Connections (C1BR-01-D/C1CR-01-D)	6
Testing the System Operation	7
Maintenance	7
Repairing Xintex Solenoid Valve Controller	7
Returning Xintex Solenoid Valve Controller	7
1 Year Limited Warranty	8

## General Information

The C-1B-R and C-1C-R Solenoid Valve Controllers are an effective means to control the flow of Liquefied Petroleum Gas (LPG) and Compressed Natural Gas (CNG). These devices have the capability of manually opening and closing an electric solenoid valve in the supply line. When properly installed, this unit meets United States Coast Guard requirements for Propane and CNG control systems.

## Specification

### System Specifications (C-1B-R/C-1C-R)

Operating Voltage: 9-18V DC

Nominal Current Draw: 20mA @ 12V DC

Maximum Current Draw: 650mA @ 9V DC

Operating Temperature: -40°F (-40°C) to 185°F (85°C)

### System Specifications (C-1B-24-R/C-1C-24-R)

Operating Voltage: 18-30V DC

Nominal Current Draw: 14mA @ 24V DC

Maximum Current Draw: 17mA @ 18V DC

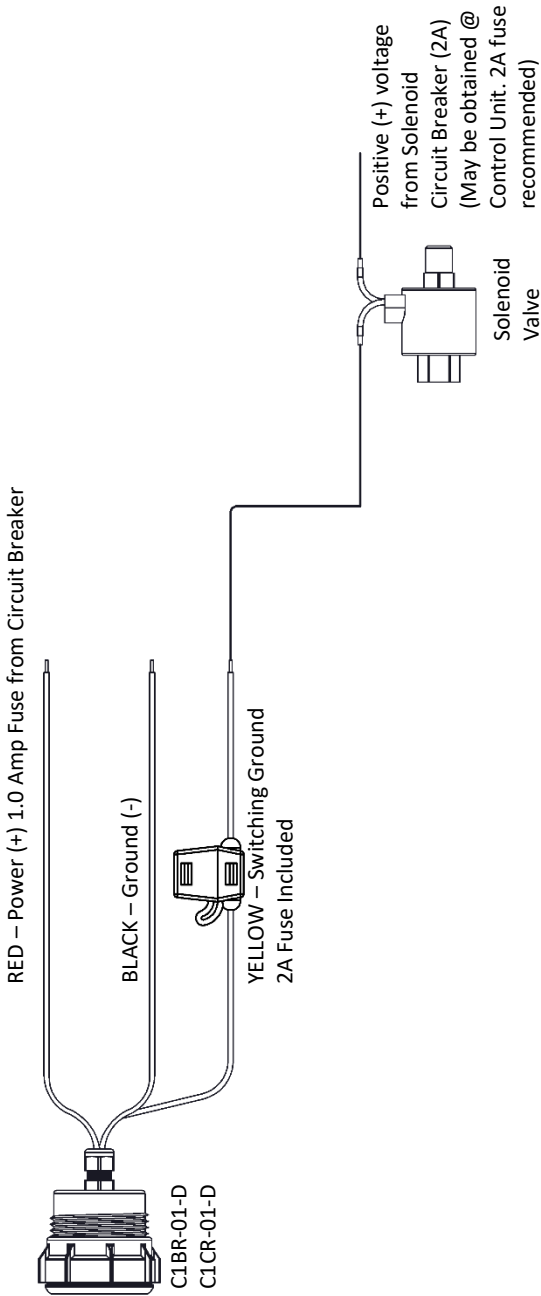
Operating Temperature: -40°F (-40°C) to 185°F (85°C)

## Operation of Xintex Solenoid Valve Controller(s)

The Controller has a push-button and an LED. The push-button is used to turn the Solenoid Valve ON and OFF. The Green LED, indicates that the Solenoid Valve is ON. When the Solenoid Valve is OFF, no LED is illuminated.



C1BR-01-D  
C1CR-01-D



## Installation

### Installing the Control Unit (C1BR-01-D/C1CR-01-D)

The Control Unit should be located near the LPG/CNG appliance where the visual indicator can be easily seen.

Drill a 2-1/16" hole to accommodate the C1BR-01-D/C1CR-01-D Control Unit.

Insert Control Unit into hole and secure with the provided threaded mounting nut. A Trim Ring is available if needed.

#### **NOTE**

THE SOLENOID PROVIDED IS A NORMALLY CLOSED SOLENOID AND MUST HAVE POWER APPLIED TO OPEN.

### Installing the Solenoid Valve for LPG Applications

The Solenoid Valve should be mounted on the tank side of the LPG regulator, as close to the tank as practical. The tank itself should be mounted outside the cabin or crew quarters to avoid the possibility of gas accumulation due to a leak.

### Installing the Solenoid Valve for CNG Applications

Because of the higher tank pressure of CNG, the valve must be installed after the CNG regulator as close to the regulator as possible. The tank itself should be mounted outside the cabin or crew quarters to avoid the possibility of gas accumulation due to a leak.

#### **NOTE**

TIGHTEN TO 12-13 FT/LBS. DO NOT OVER-TIGHTEN.

#### **NOTE**

ALL PIPING MUST BE CHECKED FOR LEAKS. USE SOAPY WATER SOLUTION ON ALL JOINTS. NEVER USE A FLAME TO CHECK FOR LEAKS.

### Electrical Connections (C1BR-01-D/C1CR-01-D)

The Control Unit operates on 9-30V DC. A Red and a Black 16 GA wire are provided for connecting to the power source. Connect the Red wire to Power (+) with an inline 1.0 Amp fuse. Connect the Black wire to Ground (-).

A 2A fused Yellow 16 GA wire is provided for connecting the Control Unit to the Solenoid Valve. Connect the Yellow wire to the Solenoid Valve. Connect the positive (+) voltage to the Solenoid Valve.

#### NOTE

UNITS MANUFACTURED PRIOR TO JANUARY 01, 2018 DO NOT INCLUDE THE 2A FUSE. A DEDICATED 2A FUSE OR BREAKER SHOULD BE USED TO POWER THE SOLENOID VALVE.

#### NOTE

IMPROPER CONNECTIONS WILL DAMAGE THE CONTROL UNIT AND WILL VOID WARRANTY.

#### Testing the System Operation

To test the Solenoid Control unit, check that the flame of your appliance extinguishes when the Control unit is turned OFF.

#### Maintenance

The system should be tested periodically in the fashion described in the previous sections.

#### Repairing Xintex Solenoid Valve Controller

Xintex Solenoid Valve Controller is not field serviceable. Components must be returned to the factory for any repairs.

#### Returning Xintex Solenoid Valve Controller

No product may be returned for credit or repair without a written "Returned Material Authorization" (RMA) form. Purchaser must call or email Fireboy-Xintex 616-735-9380 or [fireboy@fireboy-xintex.com](mailto:fireboy@fireboy-xintex.com) for a RMA. If due to extenuating circumstances a product is to be returned, after approval it must be received in 100% new/resalable condition. Products stored by the buyer for more than 26 weeks may not be returned for any reason. Maintaining fresh and current inventory is the responsibility of the buyer.

## 1 Year Limited Warranty

This Warranty is in lieu of all other expressed or implied Warranties

Seller warrants title, materials, and workmanship on equipment, except components manufactured by others for which the Seller assigns, as permitted, the original manufacturer's warranty. Seller's warranty shall be for a period of (1) one year from the date of sale to the ORIGINAL CONSUMER PURCHASER, during which non-conforming equipment returned to the Seller at Buyer's expense and risk, be repaired or replaced at the Seller's option. Fireboy-Xintex LLC will repair or replace products found to be defective in materials or workmanship within the period set forth above, provided that: (a) the product has not been subjected to abuse, contamination, neglect, accident, incorrect wiring not our own, improper installation or servicing, or used in violation of instructions furnished by Fireboy-Xintex LLC and (b) as to any prior defects in materials or workmanship covered by this warranty, the product has not been repaired or altered by anyone except Fireboy-Xintex LLC and (c) the serial number has not been removed, defaced or otherwise changed, and (d) examination discloses, in the judgment of Fireboy-Xintex LLC, does not assume the costs of removal and/or installation of the product or any other incidental costs of removal and/or installation of the product or any other incidental costs which may arise as a result of any defect in material or workmanship, and (e) upon discovery of defect, Buyer shall immediately cease use of and notify Fireboy-Xintex LLC

Any warranty implied by law, including warranties of merchantability or fitness, is in effect only for the duration of the expressed warranties set forth above, no person is authorized to give any other warranty, or to assume for Fireboy-Xintex LLC any other liability in connection with the sale of its products; Fireboy-Xintex LLC shall not be liable for the loss of use, revenue, or profit or for any injury, or for any other consequential or incidental damages, buyer is not relying on seller's judgment regarding his or her particular requirements, and has had an opportunity to inspect the product to his or her satisfaction.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

[www.fireboy-xintex.com](http://www.fireboy-xintex.com)

Fireboy-Xintex LLC  
O-379 Lake Michigan Dr. NW  
Grand Rapids, MI 49534  
[fireboy@fireboy-xintex.com](mailto:fireboy@fireboy-xintex.com)  
Phone (616) 735 9380

Fireboy-Xintex UK Operations Limited  
10 Holton Road, Holton Heath Trading Park  
Poole Dorset BH16 6LT UK  
[fireboyeu@fireboy-xintex.com](mailto:fireboyeu@fireboy-xintex.com)  
Phone 44 (0) 845 9462