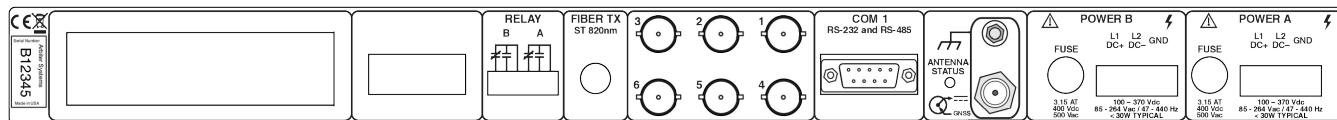


## Unpacking

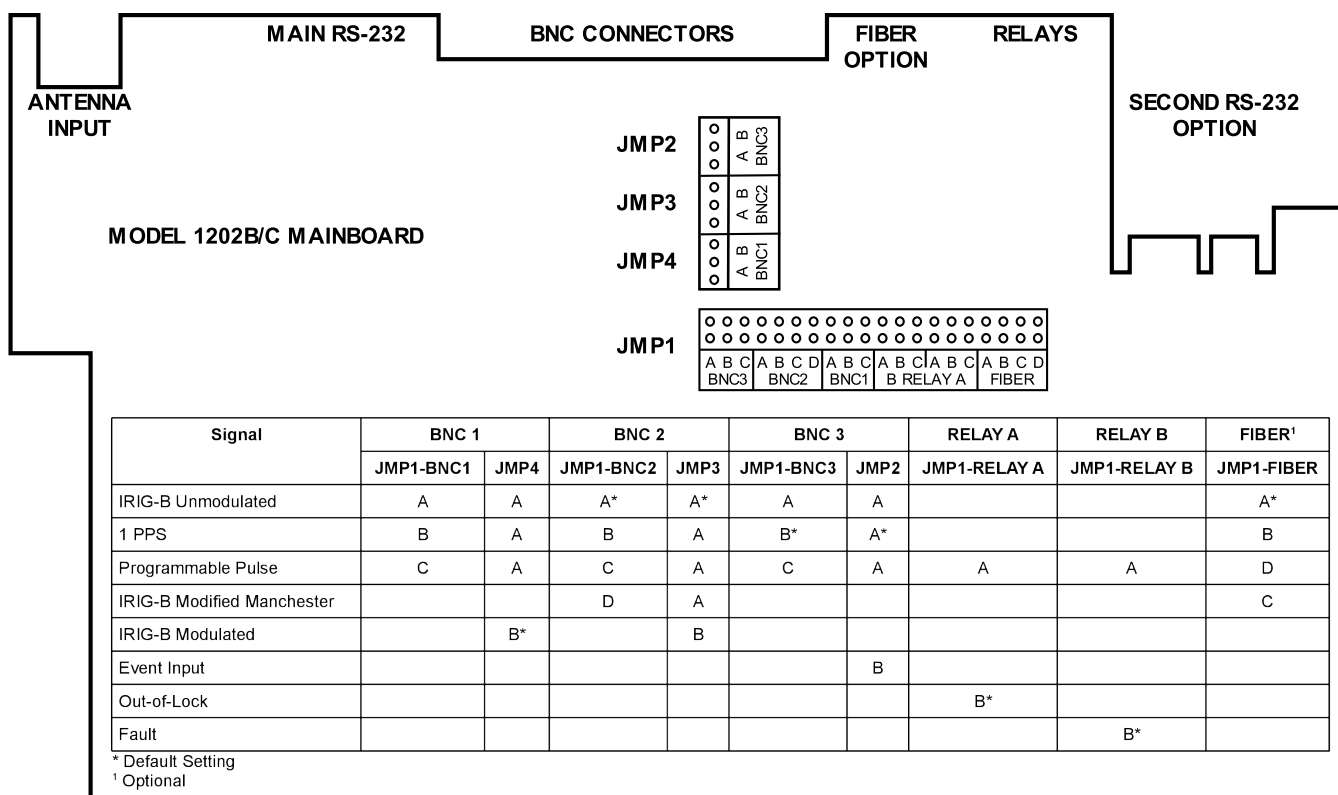
Carefully check through the packing material for these accessories: GNSS antenna, standard antenna cable assembly, mounting screws for rack ear removal. *Handle the GNSS antenna carefully, as it may be damaged if dropped.*



## Configuring Output Jumpers

Before installing in a rack check the internal jumpers to make sure they are set to the appropriate signal type.

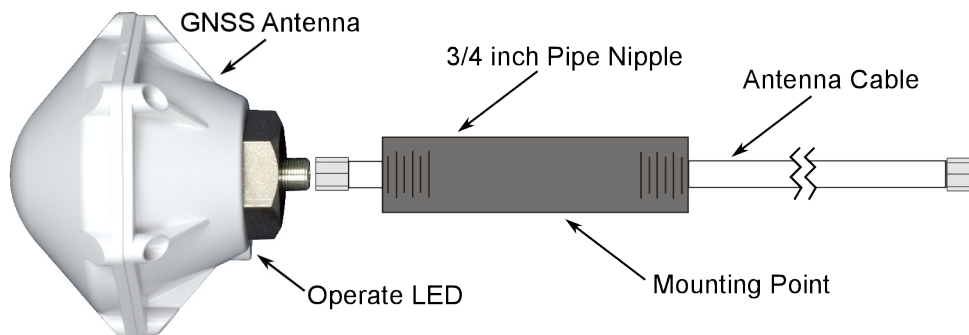
- Internal jumpers configure the signals for BNC 1, BNC 2, BNC 3, RELAY A, RELAY B, and the optional FIBER.
- The front panel (or Utility Software) configures the signals for BNC 4, BNC 5, and BNC 6.



## Connecting Signal Cables

- BNC: 50 ohm
- RELAY: strip the wire insulation 1/4 inch. DO NOT TIN. Insert into connector and turn screw clockwise to tighten.
- FIBER: ST connector designed for multimode fiber-optic cable.
- Twisted pair: use optional BNC Breakout.
- Main serial port: male DB-9 connector with RS-232 and RS-485. Use with null-modem serial cable.

DB-9 Pin	Function
2	Receive (Rx)
3	Transmit (Tx)
5	Ground (GND)
8	RS-422/485, Tx-A
9	RS-422/485, Tx-B



### Installing GNSS Antenna

The GNSS antenna included with the clock is designed to be threaded onto a piece of 3/4 inch pipe nipple. Make sure that the antenna has a clear view of the sky in all directions of the compass for best GNSS satellite tracking.

1. Pass the antenna cable through the pipe nipple and attach the cable to the antenna. Tighten by hand, spinning the cable connector. **DO NOT** spin the antenna onto the cable connector or **DAMAGE** may occur.
2. Thread the pipe nipple into the base of the antenna and snug by hand.
3. Mount the pipe nipple to a fixture, such as our Antenna Mounting Kit.
4. Install GNSS Surge Protector or In-Line Preamplifier if needed. Reference their respective instructions.
5. Connect the antenna cable to the clock.

### Connecting Power Cables

- **VERIFY** that the voltage level is in the correct range.
- **VERIFY** that the polarity is as specified on the label.
- Strip the insulation 1/4 inch and **DO NOT** tin.
- A fuse is located to the left of each installed power inlet connector.

### Configuring with the Front Panel

- Press **SETUP** to cycle through the menu structure.
- Press **ENTER** to select the menu.
- Press **UP** or **DOWN** to change the selection.
- Press **ENTER** to confirm selection.
- Press any of the top row keys to leave the configure menu.

### Configuring with the Utility Software

Utility Software is available from [www.arbiter.com](http://www.arbiter.com)

### Additional Help

The operation manual is available as a free download from [www.arbiter.com](http://www.arbiter.com) or to purchase.