

INSTALLATION INSTRUCTIONS

CB12 CONNECTING BLOCK

The Model CB12 provides a low cost means of connecting Xantech "Quick Connect" IR Receivers and standard 3-wire IR Receivers to one single or one dual emitter and a power supply in an infrared repeater system.

FEATURES AND SPECIFICATIONS

- Inputs: 1 - "IR RCVR" 3.5mm stereo mini jack. Accepts any Xantech IR Receiver equipped with a 3.5mm stereo mini plug, such as the 291 series or 490-30.
- 1 - Three terminal "VGS" block for wired connection of Xantech IR Receivers and SmartPad keypads.
- Output: 1 - Emitter "OUT" port (3.5mm mono mini jack).
- Model 282, 283, 284 & 286 Xantech series Mini Emitters
- 2.1mm coaxial power jack for Xantech 781RG or 782-00 Power Supplies.
- Dimensions: 2-1/8" x 1-1/4" x 3/4"

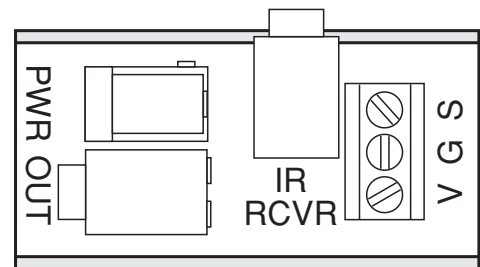


Fig. 1 Model CB12 Connecting Block

may be used.

CAUTION: Plug only Xantech IR Receivers equipped with a stereo mini plug into the IR RCVR jack. Do not plug emitters or other devices into this jack; to do so may damage emitters and power supplies!

INSTALLATION

Fig. 2 illustrates a typical installation using the CB12 in a multiroom IR repeater system. In this case a Xantech 291 Hidden Link™ IR Receiver is used to control a Satellite Receiver and a VCR in a cabinet behind closed doors in Room 1. Control of the same equipment is accomplished from two other rooms with a Xantech 780-10 J-box IR Receiver and a Smart Pad™ keypad, by using the 3-terminal "VGS" connector on the CB12 (V=+12Volts, G=Gnd., S=IR Signal).

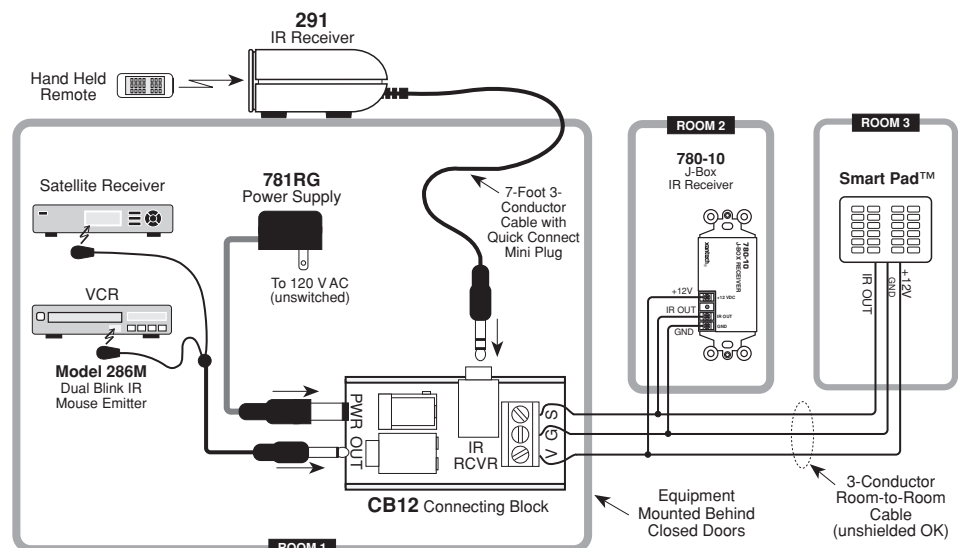


Fig. 2 The CB12 in a Typical 3-Room IR Repeater System

When you use more than 1 keypad and one IR receiver together in a system, use the high current power supply, model 782-00, in place of the 781RG.

The **OUT** port can drive any of the Xantech emitter models in the 282, 283, 284 and 286 series as well as the 286M shown in **Fig. 2**. **NOTE:** Be sure the Power Supplies, in any of these systems, are plugged into an unswitched AC outlet. This maintains the system in "stand-by" operation so that power-on commands can be sent to the controlled equipment. **INSTALLATION (cont'd)**

Fig. 3 illustrates another application of the CB12. In this case it serves as a "break-out" block for the convenient connection of a 291 IR Receiver to a 3-conductor room-to-room cable in a larger multiroom system. You may also use it with any other Xantech quick-connect IR Receiver, such as the 490-30, for the same purpose.

INSTALLATION NOTES:

1. When used as a "break-out" block, you do not need to connect a power supply to the "PWR" jack on the CB12. Power is supplied on the 3-conductor cable coming from the connecting block in the equipment room.
- Also, do not plug an emitter into the "OUT" jack in this case. To do so will prevent operation of the emitters in the equipment room.
2. When paralleling IR receivers, a maximum of 12 is recommended. More than this may result in unreliable operation due to the buildup of IR noise.
3. The Smart Pad™ keypads may be paralleled in larger numbers. They are not subject to the IR noise limitation.
4. **Mounting:** The CB12 may be mounted on any flat surface using the double-sided adhesive tape supplied.

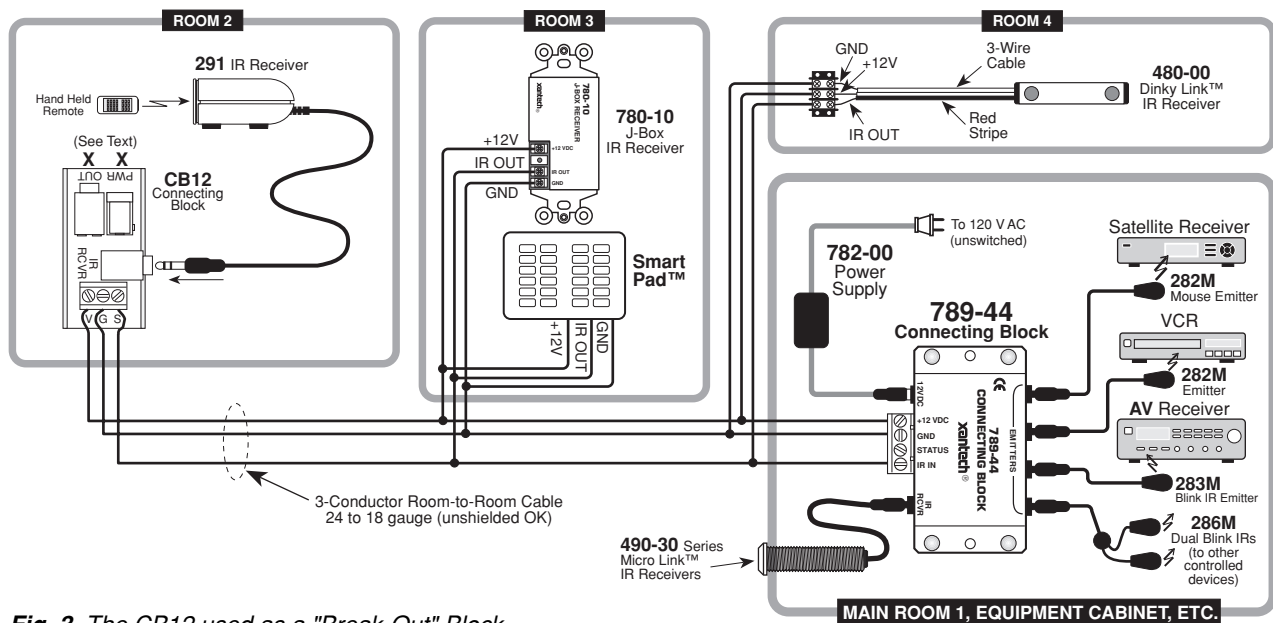


Fig. 3 The CB12 used as a "Break-Out" Block

NOTE: Be sure the power supplies, in any of these systems, are plugged into an un-switched AC outlet. This maintains the system in "stand-by" operation so that power-on commands can be sent to the controlled equipment.