

INSTALLATION INSTRUCTIONS

CB60 CONNECTING BLOCK

The Model CB60 provides a means for quick connection of certain Xantech IR Receivers, such as the 490-30, to up to six emitters and a power supply. It can also provide a low cost means of easy emitter expansion for existing systems or to connect multiple emitters at the output of other Xantech devices, such as the 590 Programmable Controller, the 710 Fone Link, 792-10 Power Module and certain connecting blocks, such as the CB12 and the 791-44.

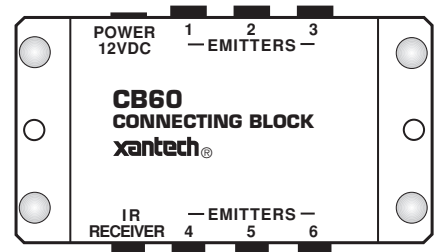


Fig. 1 Model CB60 Connecting Block

SPECIFICATIONS

- IR Receiver Input: 3.5mm stereo mini phone jack.
- Outputs: 6 emitter ports (3.5mm mono mini type phone jacks) in a parallel hook-up.
- Contains a 100 Ohm resistor in series with each emitter output.
- 282, 283, 284, 284-10, and 286 mini-emitters may be used.
- Power requirements: 12 volts DC. Uses 781RG or 782 Power Supplies. **Note:** A power supply is not used when the CB60 is used solely as an emitter expander.
- 2.1 mm coaxial power jack.
- Dimensions: 2-15/16" W x 1-3/4" D x 13/16" H

INSTALLATION

The following diagram, **Fig. 2**, illustrates the primary use of the CB60; to connect a Xantech IR Receiver, equipped with a 3.5 mm stereo mini plug, into an IR controlled system. In this case a 490-30 is shown plugged into the "IR Receiver" jack on the CB60.

Note that everything is quick connect; the IR receiver, the power supply and the emitters. (Since the emitter ports are connected in parallel within the CB60, you may plug in the 283M's in any order). The 490-30 & CB60 are intended for use in installations where the connecting block is within reach of the 7-foot cable on the 490-30 -- such as when installing the 490-30 in a cabinet where the controlled equipment is behind closed doors.

The Mini-Emitters, any of the 282, 284, 283 & 286 series, may be affixed directly over the infrared window of the controlled device, using the clear adhesive layer on the flat surface of the emitter. In some applications, it may be desirable to affix the flat surface of the 282M higher output emitters to a cabinet door, side or shelf with the rounded surface aimed at the infrared window. Maximum output from the 282M comes from the rounded surface opposite the adhesive layer.

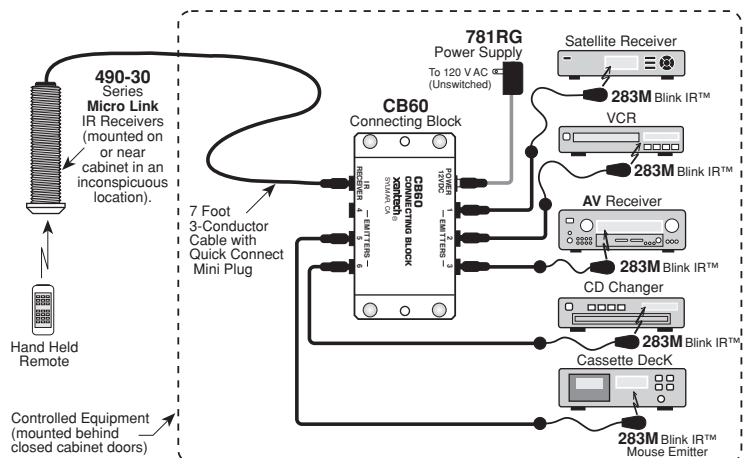


Fig. 2 A Typical CB60/490-30 IR System

PLEASE NOTE: Be sure the 781RG power supply is 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.

USING THE CB60 AS AN EMITTER EXPANDER

There may be times when you wish to upgrade an existing CB12 or 791-44 Connecting Block system to handle more emitters. This can easily be done by adding a CB60 as shown in **Fig. 3**.

This will provide a total of 6 ports for emitters using the CB12 and 15 ports if you are expanding from a 791-44. **Do not** connect a power supply to the CB60 when using it in this way as an emitter expander. It is not needed and will damage power supplies if they are plugged in! Also, **do not** use a CB60 to expand from a 789-44 or a CB20. Expand from a CB12 and a 791-44 only.

The CB60 also provides a convenient way to expand emitters at the output of a controller device, such as the 590-00 Programmable Controller. See **Fig. 4**.

In the same manner, you may expand emitters for other Xantech products, such as the 710 Fone Link, 792-10 Power Module, IR routers, etc. In these cases, use the appropriate mono mini plug cable, such as the Xantech part #6017400 (3.5 mm to 3.5 mm) or #6015900 (3.5 mm to stripped bare wire ends), to interface between the output port of these devices and the "IR Receiver" input port of the CB60.

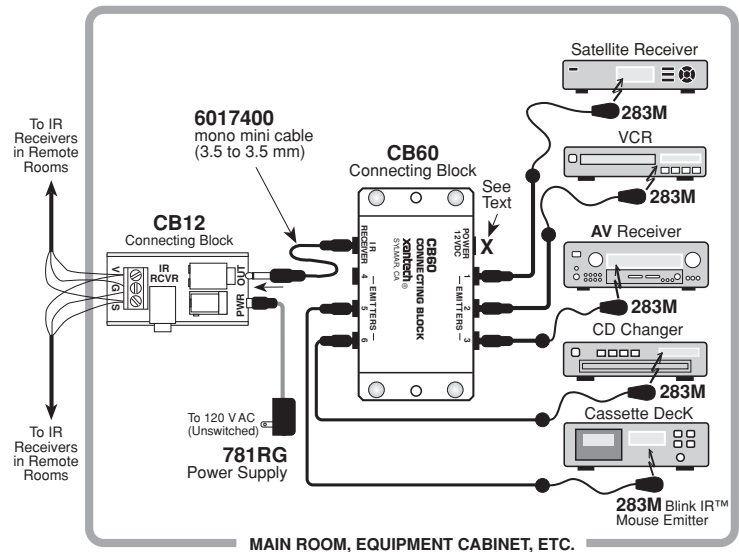


Fig. 3 Using a CB60 to Expand an Existing CB12 Block

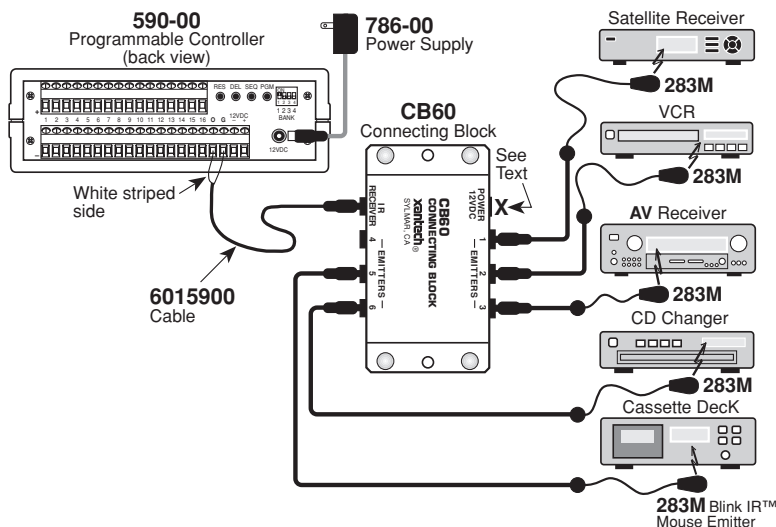


Fig. 4
Emitter Expansion
From a Controller Device