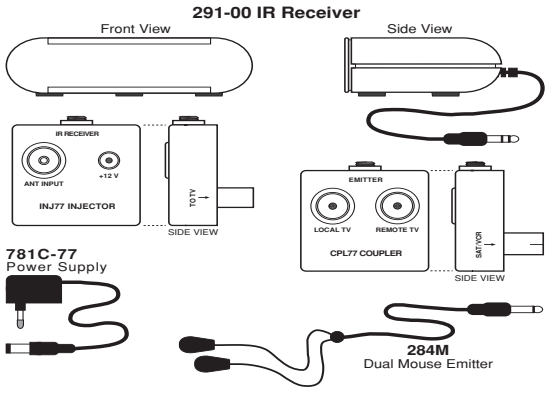
INSTALLATION INSTRUCTIONS

172-77
XTRA LINK® 2
REMOTE CONTROL EXTENSION SYSTEM

The Xtra Link 2 system provides full remote control operation of a satellite receiver, cable box or VCR from a second room by sharing the coaxial cable connecting your video equipment to this second room's TV.

The 172-77 Xtra Link consists of the following supplied parts:

1. An infrared Receiver, Model 291-00. It is placed at the remote room location to receive IR signals from the handheld remote controller.
2. One INJ77 Injector. This unit, located in the Remote Room, injects the remote control signal into the room-to-room coaxial cable (along with the TV signal) and passes it to the CPL77 Coupler in the Main room. It also provides quick connection of the 291-00 IR Receiver and 781C-77 Power Supply cables.
3. One CPL77 Coupler. Located in the Main Room, this Coupler extracts the remote control signal from the coaxial cable and passes it to the emitters that control your source equipment. In addition, the CPL77 contains a 2-way RF splitter so that the TV signal can be fed to a local TV.



172-77 Xtra Link 2 System Parts

4. One Dual IR Emitter, Model 284M. The emitters on this device allow control of two infrared remote controlled audio/video components.
5. A 781C-77 Power supply. This plugs into an unswitched 220-240 VAC outlet to provide power to the 291-00 IR Receiver.

CONNECTIONS

The Xtra Link system uses the coaxial cable that carries the TV RF signal from the source equipment in the main room to the remote room, to send the IR control signals back to the source equipment. The coaxial cable may be up to one mile in length.

If you already have a coaxial cable connecting your video equipment with a remote room, your current hookup should be similar to **Fig. 1**. If it isn't, run a single length of RG59 or preferably RG6 cable from the Main Room to the Remote Room.

NOTE: If RF amplifier(s) are used anywhere in the line of coaxial cable between the CPL77 Coupler and the INJ77 Injector, you must use a Xantech BYPASS77 KIT to route the IR commands around the amplifier(s).

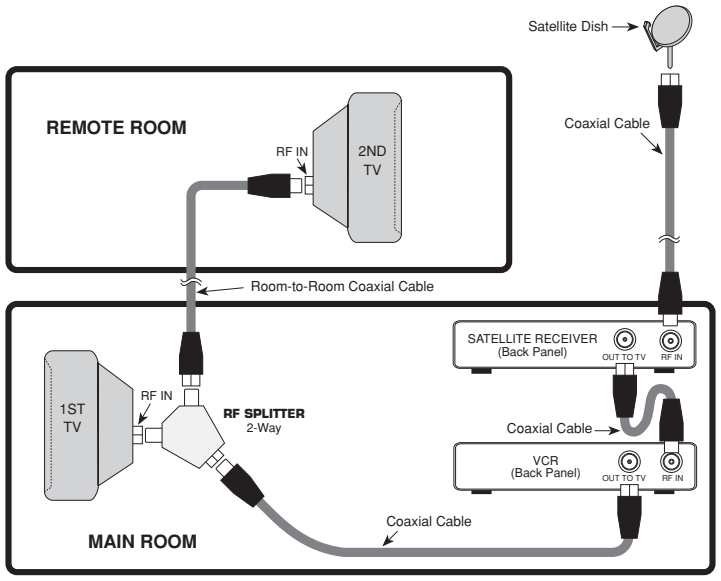


Fig. 1 *Basic System Without Xtra Link*

When using more than one Xtra Link for more rooms, be sure the RF splitters you use are DC passing types, such as Xantech part number 04027500 (2-way). Refer to **Fig. 3**.

INSTALLING THE 291-00 IR RECEIVER

Insert the cable mini plug attached to the 291-00 into the jack marked "IR RECEIVER" on the INJ77 Injector. Refer to **Fig. 2**.

Plug the 781C-77 Power Supply cord into the jack marked "+12 V" on the INJ77 Injector. Plug the 781C-77 into a 220 VAC unswitched outlet after you have made all other connections.

Position the 291-00 IR Receiver so that the infrared beam from the handheld remote control has a direct view to the front of the unit (within 20 feet).

INSTALLING THE INJ77 INJECTOR

Insert the "TO TV" plug on the back of the INJ77 Injector into "RF IN" on the TV in the Remote Room. Connect the room-to-room cable to "ANT INPUT" on the INJ77 Injector.

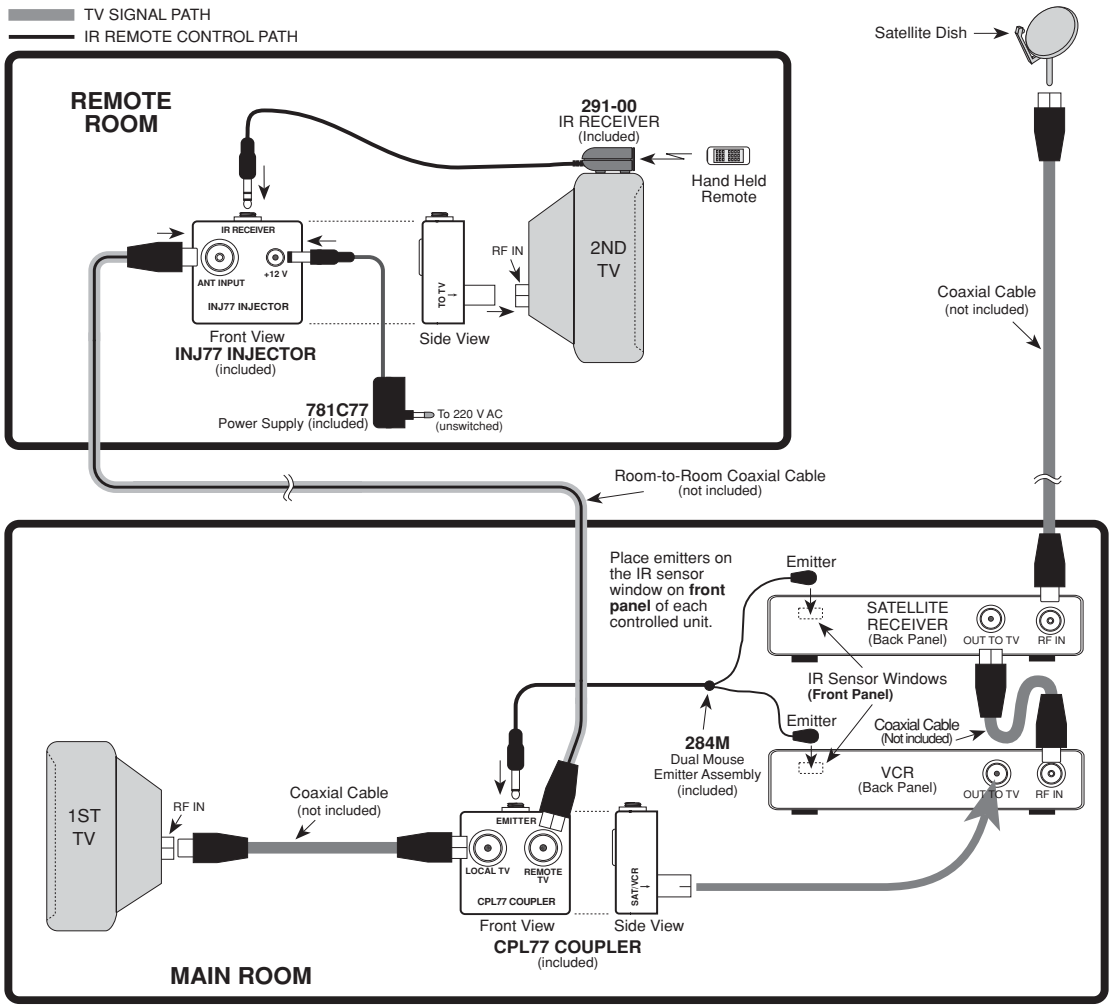


Fig. 2 *Basic Xtra Link Hookup*

INSTALLING THE CPL77 COUPLER

Insert the "SAT/VCR" plug on the back of the CPL77 Coupler into "OUT TO TV" on VCR in the Main Room. Connect the room-to-room cable to "REMOTE/TV" on the CPL77 Coupler.

Make the remaining connections from the CPL77 Coupler to the TV, the VCR to the satellite receiver, etc., as shown in **Fig. 2**.

INSTALLING THE XTRA LINK 284M DUAL IR EMITTER

Plug the 284M Dual IR Emitter into the jack marked "EMITTER" on the CPL77 Coupler in the Main Room.

The 284M emitters should be installed directly to the infrared sensor "window" on the **front panel** of the satellite receiver, VCR, cable box, etc. Simply remove the paper backing exposing the adhesive surface of each emitter and apply them to the center of the sensor window.

NOTE: Although the 284M appears dark to the eye, it is transparent to infrared. Positioning the 284M directly over the infrared window(s) of the component(s) will not block direct IR control from a handheld remote.

OPERATION

To use the Xtra Link Remote Control Extension System, simply point your handheld remote control(s) at the 291-00 IR Receiver and press the desired button. A red LED on the front of the 291-00 will indicate the reception of your infrared command.

NOTE: The maximum usable distance between your IR remote and the 291-00 Receiver will vary for each remote and might be shorter than when directly used in the room containing the satellite receiver or other IR controlled devices.

ADVANCED MULTIROOM HOOKUP

Fig. 3 shows an advanced system using two Xtra Links in a multiroom installation. Except for the addition of a 2-way DC passing RF splitter (such as Xantech part no. 04027500), the connections are essentially the same.

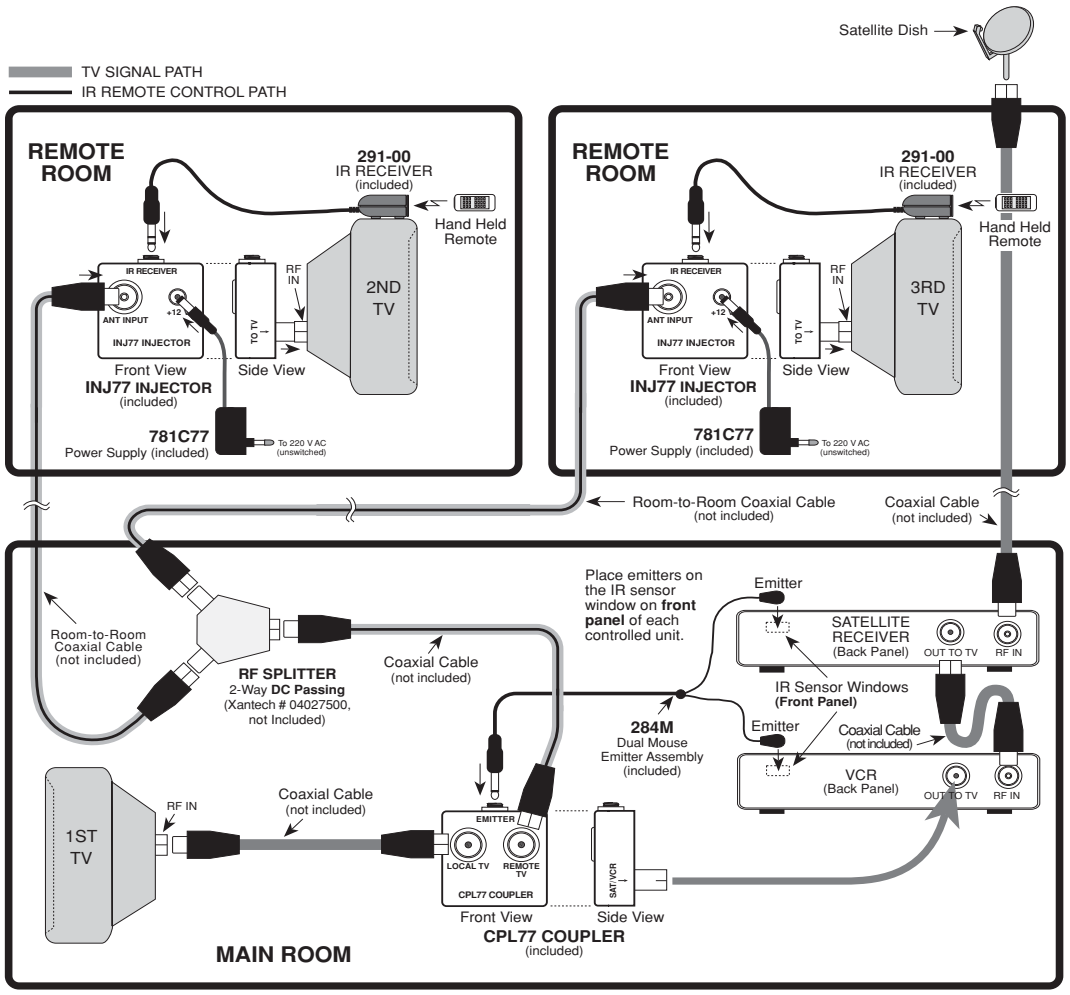


Fig. 3 *Advanced Multiroom Hookup*

HOW TO AVOID PROBLEMS

In rare cases, the 291-00 IR Receiver may have to be moved to a different location if the unit is picking up interference. This interference may, in severe cases, prevent the system from working.

Common examples of interference are:

- RF radiation from the TV set on which the 291-00 IR Receiver may have been placed.
- Direct or reflected sunlight.
- Fluorescent, Compact Fluorescent, Neon, Neon Art, Halogen lights or light dimmers.
- Infrared security systems.

You can confirm the source of the interference by temporarily turning off the remote room TV set, isolating the 291-00 Receiver from all sunlight and turning off all lights, light dimmers and Infrared security systems. Then check to see if the 291-00 operates the satellite receiver or other components.

If the 291-00 still does not work, reposition the 284M Emitter(s). It may not be located directly over the component's infrared receiving "window". Consult the owner's manual of the unit or the manufacturer for the exact location of the infrared "window".

IMPORTANT: For installations involving more than two remote rooms, use the services of a competent professional audio/video installer experienced in infrared remote control systems.