



# INSTALLATION INSTRUCTIONS

## MRCKPSP

### Multi-Room Controller, Keypad Splitter

#### DESCRIPTION

The MRCKPSP provides the installer with the ability to wire two keypads to one zone without daisy-chaining the keypads in the zone. This makes pre-wiring instructions an easier task by allowing the installer to “home-run” all keypad cables. Plus, the MRCKPSP comes with an additional IR receiver input/output connection.

The MRCKPSP can be used with the following products.

- ▶ MRC44CTL
- ▶ MRC88CTL
- ▶ MRAUDIO4X4CTL
- ▶ MRAUDIO8X8CTL
- ▶ BXAUDIO4X4CTL

#### BASIC INSTALLATION - MRC44, MRAUDIO4X4, BXAUDIO4X4

The MRCKPSP is designed to easily connect two keypads in a zone. Figure 1 shows a recommended application. The power jumper must be set to “INT”. This enables the multi-room controller to power the primary and secondary keypads.

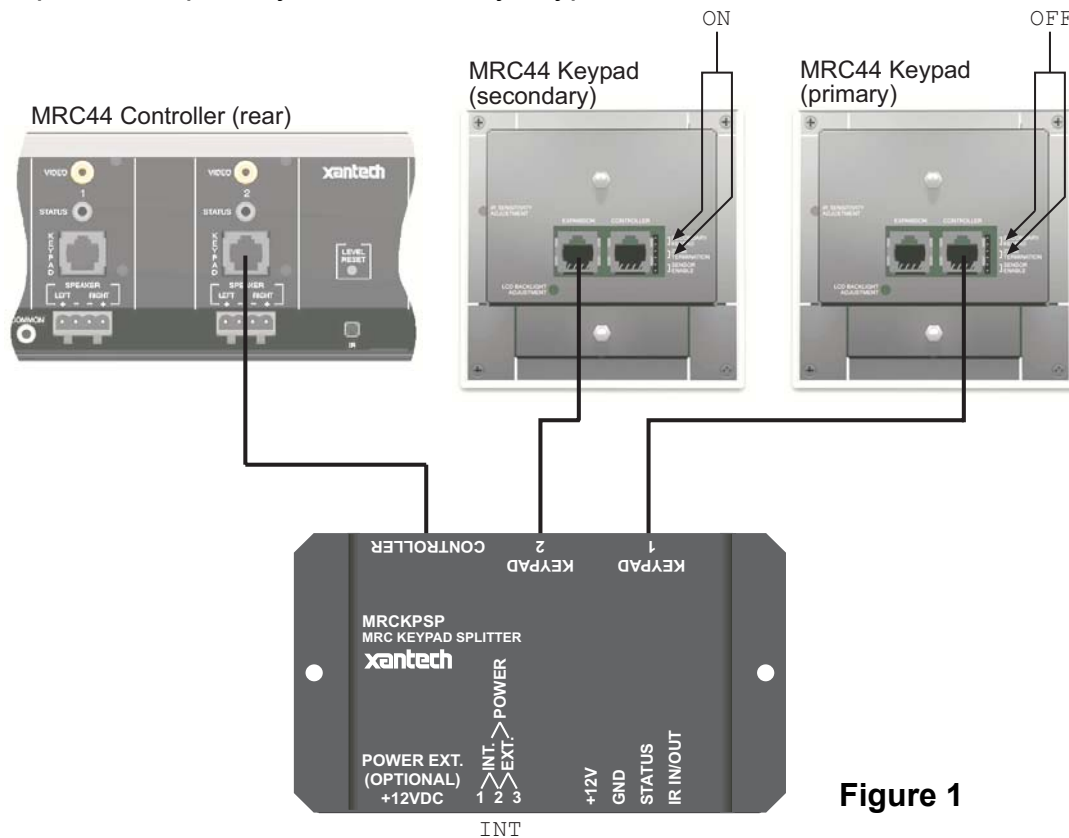


Figure 1

The primary keypad must have both the “secondary” and “zone termination” jumpers removed. The secondary keypad must have both the “secondary” and “zone termination” jumpers installed. The distance between the MRCKPSP to the MRC44 Keypads is 250 feet maximum. The distance between the MRCKPSP and the multi-room controller is less than 15 feet.

## BASIC INSTALLATION – MRC88, MRAUDIO8X8

Figure 2 shows a recommended application. The power jumper must be set to “INT”. This enables the multi-room controller to power the primary and secondary keypads.

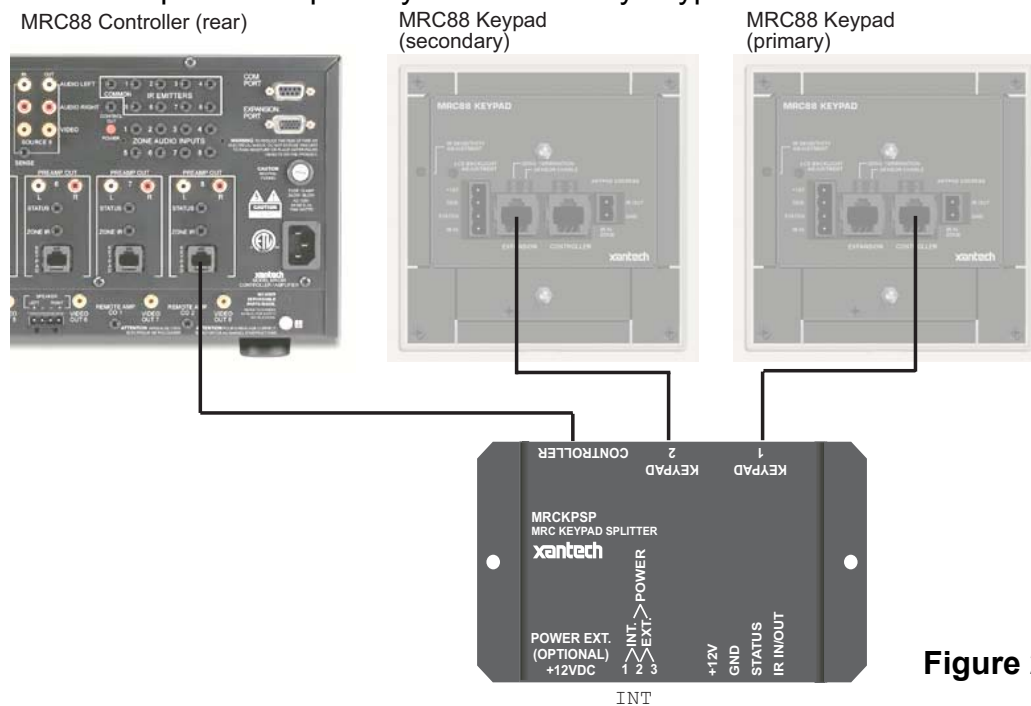


Figure 2

The primary keypad must have the “zone termination” jumper removed. The primary “keypad address” jumpers should both be removed.

The secondary “zone termination” jumper should be installed and the “keypad address” jumpers must be set. JP1 should be removed. JP2 should be installed.

The distance between the MRCKPSP to the MRC88 Keypads is 500 feet maximum. The distance between the MRCKPSP and the multi-room controller is less than 15 feet.

### INTERNAL\EXTERNAL POWER

Using internal or external power on the MRCKPSP is determined by the application. The reason is the Controller’s power capability may not be sufficient for certain applications, such as extended runs.

It is recommended to use an external power supply, such as the 782-00, in applications when more than two keypads located 250 feet apart from the controller and an external device is used, such as the WPK8 Waterpad, 380-20 Blast-IR, or 780-10 IR receiver.

## - WARNING -

Do not connect a power supply to the MRCKPSP when the jumper is set to “INT”.  
The Multi-Room Controller will be damaged!

## ADVANCE INSTALLATION – MRC88, MRAUDIO8X8 & 780-10 IR Receiver

An additional IR device can be connected to the MRCKPSP. Figure 3 shows an application where an additional IR receiver is used in the same zone as the two keypads. An external power supply is used to power both primary and secondary keypads as well the IR receiver. The power jumper must be set to “EXT”.

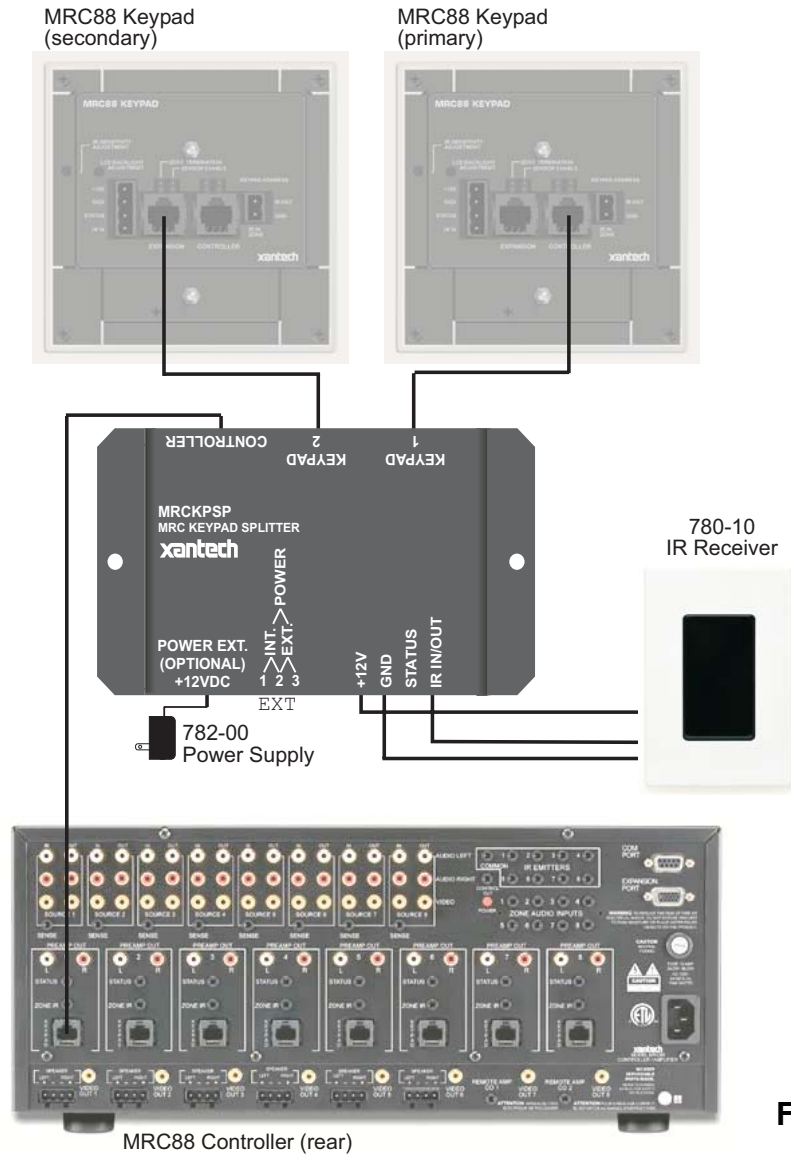


Figure 3

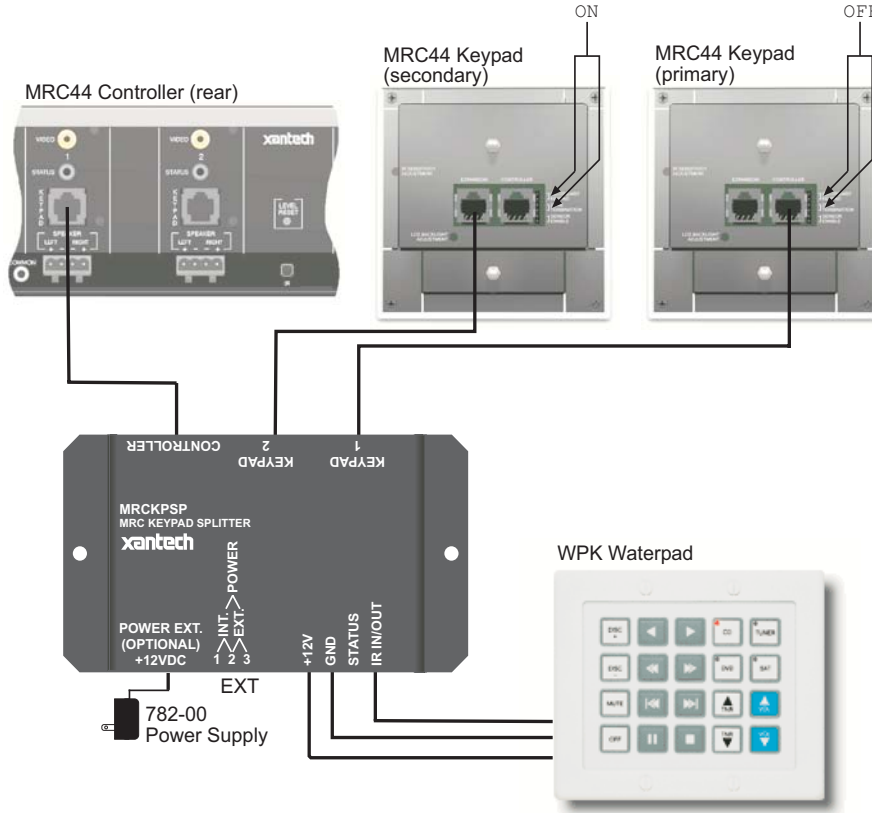
The keypads should follow the jumper settings as discussed in “BASIC INSTALLATION – MRC88, MRAUDIO8X8”.

The distance between the MRCKPSP to the MRC88 Keypads is 500 feet maximum. The distance between the MRCKPSP and the multi-room controller is less than 15 feet. The distance between the MRCKPSP and the 780-10 is 500 feet maximum.

Since an external power supply is being used, the system must be powered up in a specific sequence. Apply power to the MRCKPSP before starting the MRC88 Controller.

**ADVANCE INSTALLATION – MRC44, MRAUDIO4X4, BXAUDIO4X4 & WPK Waterpad**

An additional keypad device can be connected to the MRCKPSP. Figure 4 shows an application where a WPK Waterpad is connected and used in the same zone as the two keypads. An external power supply is used to power both primary and secondary keypads as well the Waterpad. The power jumper must be set to “EXT”.



**Figure 4**

The keypads should follow the jumper settings as discussed in “BASIC INSTALLATION – MRC44, MRAUDIO4X4, BXAUDIO4X4”.

The distance between the MRCKPSP to the MRC44 Keypads is 250 feet maximum. The distance between the MRCKPSP and the multi-room controller is less than 15 feet. The distance between the MRCKPSP and the WPK Waterpad is 250 feet maximum.

Since an external power supply is being used, the system must be powered up in a specific sequence. Apply power to the MRCKPSP before starting the MRC44 Controller.

XANTECH CORPORATION  
 13100 Telfair Avenue, 2/F  
 Sylmar, CA 91342  
 Phone 818-362-0353 Fax 818-362-9506  
 www.xantech.com

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