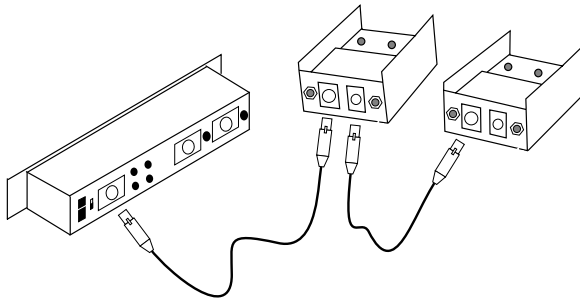


Headphone Remote Station MODEL HR-2 Instruction Sheet

Use of Headphone Remote Stations

Furman HR-2 Headphone Remote Stations (sometimes called satellites) are intended for use with the Furman HA-6A Headphone/Monitor Amplifier to increase the number of headphone stations beyond the six provided, and/or to locate them more conveniently. With the use of a simple adaptor, HR-2's may also be used with any stereo power amplifier of 50 watts per channel or less to convert them to use as headphone distribution amplifiers. (The Furman SP-20A Half Rack Power Amplifier has the required adaptor built in.) Each HR-2 box can accommodate two sets of headphones, each with its own volume control.



Daisy-chaining HR-2 Remote Stations to the HA-6A

Recording and Rehearsal

In the recording studio, headphones are most often used in the overdubbing process, where new musical tracks are recorded in synchronization with previously recorded tracks. The musicians doing the overdub hear the already recorded tracks in their headphones, and play along with them. In this way, it is possible to build up a complete recording of many tracks, adding one or more new tracks with each overdub.

Because of the presence of open microphones, headphones are much preferred to speakers for cueing overdubs. Even if headphones are used, it is important that they clamp tightly to the musicians' heads so that a minimal amount of sound leaks out.

The cue mix heard in the headphones is a combination of the previously recorded tracks along with the new sounds being added. It is generally derived from a "Cue" or "Headphone" mixing buss on the recording console, which is then routed to the Left and Right Inputs on the HA-6A's rear panel. If this mix is mono, connect it to the Left Input. The HA-6A will then automatically be in mono mode, so that the mix can be heard with both ears (or both speakers, if used).

In many situations, it may be sufficient to plug all headphones directly into the HA-6A. However, in a larger studio, or when each musician must have easy access to his or her headphone volume control, it is more practical to use several HR-2 Remote Stations at strategic locations around the room. In this case, the HA-6A (or the stereo power amplifier substituting for it) would most likely be installed in the control room.

The HR-2 Remote Stations connect in "daisy chain" fashion to the SPEAKER B-SATELLITE/REMOTE output on the rear panel of the HA-6A. This output is a male 3-pin XLR connector, so that ordinary microphone cables can be used. The HA-6A connects to the first HR-2 box; another mic cable connects the first HR-2 to the second HR-2; a third mic cable connects the second HR-2 to the third HR-2; and so on. If low impedance headphones are used, up to twelve HR-2's may be chained together. If medium or high impedance headphones are used, 25 or more Remote Stations may be chained.

The HR-2 Remote Stations are compact boxes which easily attach with a thumbscrew to any microphone stand. Each HR-2 has two stereo volume controls and two headphone jacks, to accommodate two listeners. There are also two XLR connectors, one male and one female, for use in daisy-chaining units together. If desired, the clip on an HR-2 box may be hung on a belt if no microphone stand is convenient. Or, the clip itself may be popped off the box for tabletop use.

Using HR-2's with Standard Power Amplifiers

If a power amplifier other than the 20 watt/channel Furman HA-6A or SP-20A is used to drive a chain of HR-2 Remote Stations, it is recommended that the amp have no more than 50 watts/channel maximum output to preclude the possibility of damage to the HR-2's. Also, an adaptor to connect the left and right outputs to a single male XLR connector will have to be made. This should be wired as follows: Pin 3—left output, high; Pin 2—right output, high; and Pin 1—low, common to both channels.

Three Year Limited Warranty

The Furman HR-2 is warranted against failures due to defective parts or faulty workmanship for a period of three years after delivery to the original owner. During this period, Furman will make any necessary repairs without charge for parts or labor. Shipping charges to the factory or repair station must be prepaid by the owner; return shipping charges (via UPS Ground) will be paid by Furman. This warranty applies only to the original owner and is not transferable. Also, it does not apply to repairs done other than by the Furman factory or Authorized Repair Stations.

This warranty shall be cancellable by Furman at its sole discretion if the HR-2 unit has been subjected to physical abuse or has been modified in any way without written authorization from Furman. Furman's liability under this warranty is limited to repair or replacement of the defective unit.

Furman will not be responsible for incidental or consequential damages resulting from the use or misuse of its products. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Warranty claims should be accompanied by a copy of the original purchase invoice showing the purchase date. Before returning any equipment for repair, please be sure that it is adequately packed and cushioned against damage in shipment, and that it is insured. Also, please enclose a note giving your name, address, phone number and a description of the problem.

NOTE: All equipment being returned for repair must have a Return Authorization (R/A) Number. To get an R/A Number, please call the Furman Service Department: (707) 763-1010, ext. 40. Please write your R/A Number prominently on the front of the package.