

## **RC-1 REMOTE CONTROL UNIT**

The MIRAGE RC-1 is designed to be used with the below listed amplifier models. All special instructions for proper operation are indicated by an asterisk.

The RC-1 is supplied with an eighteen foot cable that enables it to be connected to an amplifier located in a remote position such as the trunk of an automobile. There are two holes in the cover which can be used to mount the RC-1 to a mounting surface such as the bottom of a dashboard.

The Power LED on the RC-1 duplicates the Power LED on the amplifier in that it will go out if the amplifier is operated long enough to put it into an overheat condition. When the amplifier cools down to a safe temperature, the Power LED will again light up indicating normal operation of the amplifier.

### **OPERATION**

When using the RC-1, the switches on the amplifier must be set in the following conditions.

#### **POWER OFF, FM PREAMP OFF**

Simply plug the amplifier and the RC-1 together with the cable supplied and operate the functions of the amplifier with the switches as they are labeled on the RC-1.

**\*EXCEPTION\*** If the RC-1 is used with a D-100, D-1010, or D-3010, the switch on the RC-1 labeled SSB/FM is to be used in a reverse manner. SSB will give you FM operation and FM will give you SSB operation.

#### **EQUIPMENT MODELS THAT ARE COMPATIBLE**

B-215-G, B1016-G, B-3016-G, C-211-G, C-1012-G, C-3012-G, D-100, D-1010, D-3010, \*B-3030-G, and \*B-5030-G.

\*These models can be compatible; however, you should check with the Tech Lab for proper conditions.

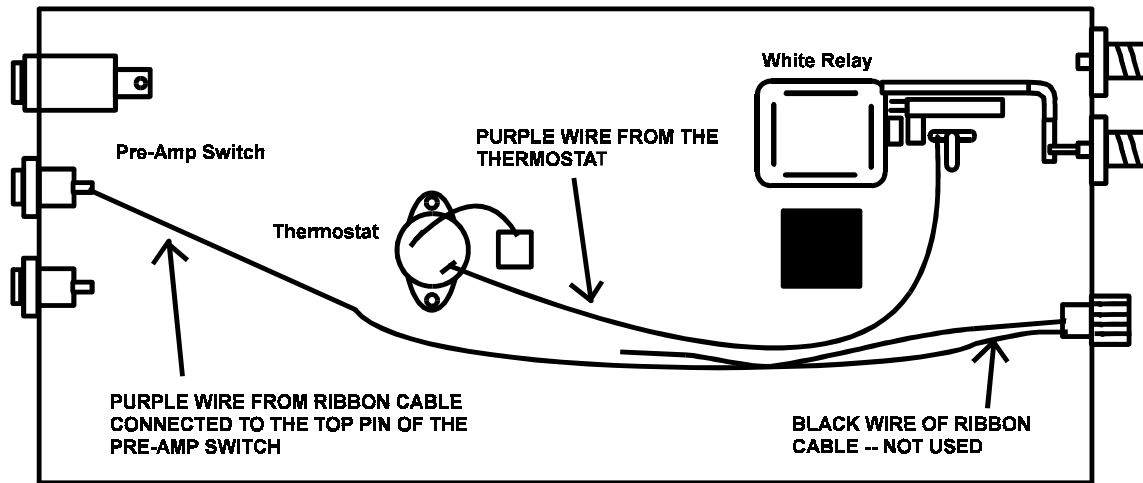
### **RC-1 MODIFICATION FOR CONTROL OF THE POWER**

The current models of Mirage amplifier contains a master ON/OFF power switch. It should be noted that this Master switch was incorporated to remove power completely from the amplifying transistors to prevent the possibility of the transistors breaking into self-oscillation. It has been found, in relatively few cases, that the transistors have a tendency to oscillate following several years of use. While we cannot predict which of these transistors will eventually break down and oscillate, we have elected to incorporate a master power switch in order to prevent this occurrence.

In years past all Mirage amplifiers used only a power switch to remove bias voltage from the transistors. This allowed us to use the RC-1 which could handle the low current requirements of the bias voltage. However, the main 13.8 VDC supplied to the collector

of the power transistor remained on all the time. This modification will allow you to remove bias and control voltage completely from the circuit thereby effectively rendering the amplifier inoperable. However, the main power to the power transistors will remain on all the time, like Mirage amplifiers in years past, and the Power Switch on the amplifier will remain illuminated.

If not supplied, Mirage can provide a jumper plug at no cost for times you desire not to use the RC-1 for operation.



1. First step is to locate the purple wire connected to the top pin of the pre-amp switch. Once located, unsolder it.
2. Next, locate the wire coming from the thermostat to a "T" shape solder pad located behind the white relay. Once located remove this wire completely.
3. Take the purple wire you disconnected from the pre-amp switch and solder it to the vacant terminal of the thermostat.
4. Locate the black wire of the ribbon cable. Carefully solder this wire to the "T" shape solder pad located behind the white relay.
5. Install the RC-1 and check operation. With the Power turned ON on the amplifier, the RC-1's power LED should remain off until you turn the RC-1's power switch to ON. The unit will not operate unless the remote switch is on.

### **TECHNICAL ASSISTANCE**

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call MIRAGE at 601-323-8287. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.

You can also send questions by mail to MIRAGE, 921 HWY 25 South, Starkville, MS 39759 or by Fax to 601-323-6551. Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.