Yaesu FT-817, FT-840, FT-857/D, FT-890, FT-891, FT-897, FT-900, FT-991/A

Nearly all commercial amplifiers made from the mid-1960s on are safe to use with the ARI-800. Amplifiers includes, but is not limited to, Ameritron, B&W, Collins, Command, Dentron, Heathkit, Kenwood, and Yaesu amplifiers.

The ARI-800 works with amplifiers that have positive, negative, and AC to ground up to 200V and 300mA.

CAUTION: DO NOT use the ARI-800 with amplifier relays that are not pulled to ground. The amplifier must pull the keying line to ground and not up to another voltage. One side of the ARI-800 AMP line is grounded and is designed to only pull the amplifier key line to ground.

1. Connect "RCA" Phono cable between the ARI-800 AMP jack to the amplifiers "KEY" line (the line that enables the amplifier into transmit mode). If it is a Phono jack then plug a Phono-to-Phono cable into the jack. The ARI-800 will work with all amplifiers that use "RCA" Phono jacks.
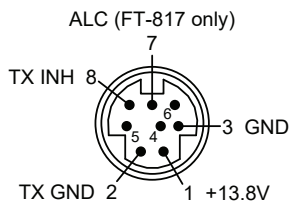
    If the connection is screw terminals or some other connector instead of a Phono jack connect the shield of the cable to the ground and the center conductor to the line that keys the amplifier. This line on the amp MUST be the type that is pulled to ground to activate. Check your amplifier manual as to the correct connections.

2. Connect the ARI-8MY 5 pin DIN connector into the ARI-800 and the 8 pin DIN connector into the BAND DATA, TUN/LIN, or CAT/TUN/LIN jack on the back of the radio. These Yaesu radios may require the BAND DATA be turned on or the TUN/LIN or CAT/TUN/LIN jack be enabled in the setup menus. Check your radio manual for instructions as to which menus have to be set.

3. If using ALC, on the FT-817 connect a Phono cable from the amplifier's ALC connection to the ALC jack on the ARI-800.
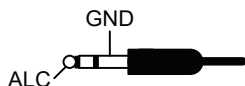
    On the FT-840 and FT-890 connect to the radio ALC Phono jack. On the FT-857/D, FT-897, FT-891, FT-991/A connect a Phono cable to a stereo 3.5mm jack. Tip is ALC and sleeve is ground. Connect the Phono cable from the amplifier's ALC connection and plug the 3.5mm plug into the ALC or REM/ALC jack in the radio. Read the radio manual for use of the ALC line.

4. **DO NOT** connect power to the ARI-800 power jack. The radio supplies power to the ARB-800 through the cable.

5. **READ THE RADIO MANUAL** to set the menu settings for the port to be used as a linear port.

BAND DATA, TUN/LIN, or
CAT/TUN/LIN Connector

As viewed from back of radio.

ALC (FT-817 only)
7

TX INH 8

3 GND

5 4

TX GND 2   1 +13.8V

ALC Connector
For FT-857/D, FT-891, FT-897, and FT-991/A only.

See radio manual for more details.

GND

ALC

ALC cable with 3.5mm plug not included.