

EXTERNAL DATA CONNECTORS

The LA-1K automatically selects bands and it is normally not necessary to connect band data cables between your transceiver and the LA-1K amplifier.

RADIO INTERFACE CONNECTOR:

This connector is designed to be pin for pin compatible with other amplifiers. The required cables are widely available. They can be used to connect to ICOM and YAESU transceivers.

XCVR Interface [Radio Interface Pin Out]

Pin	Function
1	BCD B IN
2	BCD A IN
3	Kenwood RX (data in) [custom cable required]
4	Kenwood TX (data out) [custom cable required]
5	Icom Band Data
6	GND
7	Amp-Key IN
8	BCD D IN
9	BCD C IN



RS232 BAND CONTROL CONNECTOR:

This connector is designed to be used with Kenwood transceivers for band selection using a **null modem** adapter. It is also designed to control the amplifier from a computer.

THEORY OF OPERATION

The LA-1K RF Sensing Dual HF LDMOS amplifier is a complete stand-alone amateur RF LINEAR amplifier.

It is completely independent of data from an external source to determine frequency for tracking from Band to Band. As a result of this feature, the LA-1K will function with any transmitting device without interconnecting data cable attachments.

The power output of the LA-1K is 1000 Watts PEP CW ICAS (Intermittent Commercial and Amateur Service). Under the ICAS classification, the use of the LA-1K is designed for transmissions that are of an intermittent nature.

Intermittent operation of the LA-1K implies that no operating or "ON" period of 1000W of Continuous Carrier Power will exceed approximately 1(ONE) minute. On Single Side Band (SSB) voice duty there is no limit on transmit time at full power of 1000W PEP.

Every "on" period must be followed by an "off" or standby period of at least the same or longer duration. The LA-1K provides a +10dBm@1kW RF tap feed at the rear panel to provide provisions for **"PURE SIGNAL"** operation provided by compatible transceivers. The level adjustment is calibrated at the factory. The LA-1K was designed to be fully compatible with the Palstar HF-AUTO automatic antenna tuner.

Included with the LA-1K:

- Two (2) line cords for 110VAC and 220VAC
- User Manual
- Amplifier unit
- Shipping box (please keep box for warranty repair, etc.)

As per FCC 15.21 changes or modifications not expressly approved by Palstar could void the user's authority to operate the equipment. No tune up procedure exists.