

April 6, 1984

HL-2200
2KW Linear Amplifier

Bulletin No:
HL-2200-1

Interfacing The Linear To Kenwood Exciters

The ALC voltage to Kenwood transceivers and transmitters should not exceed -8 volts. To ensure the proper voltage to the Kenwood, add:

An 8 volt zener diode [PN 56-621] across the ALC connector on the back of the amplifier. Connect the banded end of the diode to the ground lug.

April 26, 1985

HL-2200
2KW Linear Amplifier

Bulletin No:
HL-2200-2

T2 Overheats And Fails when Operating On 220 volt

Line

When the linear amplifier is wired for 220 volt AC line operation, and the contacts on SW2 [PN 61-45] or a high voltage transformer winding opens, excessive current will flow through the primary of low voltage transformer T2 [PN 54-238], causing it to fail. To prevent this failure, the black-green lead and the black-yellow lead of T2 are lifted and connected together with a wire nut.

To do this, refer to the drawing at the right and remove the black-green lead at lug 3 of terminal strip AE (the lead from T2 at grommet AK) and the black-yellow lead at lug 2 of SW2. Connect these wires together with a wire nut [PN 432-199].

Make this wiring change on units you receive for service which are wired for 220 volt AC operation. Let the customer know that this wiring change has been made. If he wants to operate on 120 volts AC, he'll have to reconnect these wires as shown in the assembly manual.

October 25, 1985

HL-2200
2KW Linear Amplifier

Bulletin No:
HL-2200-3

PN 21-79 Capacitor At C7 Unavailable

The .001 uF, 6000 volt ceramic capacitor used at C7 is not available from our vendors. Until an exact replacement capacitor is obtained from other sources, two 5000 pF, 3000 volt ceramic capacitors [PN 21-116] will be connected in series at C7. A bulletin will be issued to notify you when the PN 21-79 capacitors are once again available.

May 30, 1986

HL-2200
2KW Linear Amplifier

Bulletin No:
HL-2200-4

Power ON/OFF Switch Fails

Since the introduction of the HL-2200 Linear Amplifier, the failure rate of the OFF/ON switch [PN 61-45] at SW1 has been high. This switch was not rated high enough to handle the surge current at turn on. The switch needed for this application could not be supplied by our vendors. To prevent switch failure, a modification was made to add a high-current relay in the primary circuit and control the relay with the Power switch. The Relay Modification Kit [PN 830-94] is available from Heath Parts Replacement.

The Relay Modification Kits should be installed in all HL-2200s wired for 120 VAC operation. The Power switch rating is not exceeded when wired for 220 VAC operation.

HL-2200
2KW Linear Amplifier

May 30, 1986

Bulletin No:
HL-2200-5

Standby Switch Operates Backwards

When the Standby switch, SW5, is set to the "IN" position, the amplifier should be on; in the "OUT" position, the amplifier is off. The Standby switch currently used in the HL-2200 and stocked in Heath Parts Replacement is a rocker switch; the original switch was a toggle switch. In all HL-2200 Amplifiers using the rocker switch and wired according to the manual, Standby switch SW5 operates backwards. To correct, move the wire from lug 1 of SW5 to lug 5.

HL-2200
2KW Linear Amplifier

December 23, 1986

Bulletin No:
HL-2200-6

L3 Mounting Clip won't Fit Hole In Coil Shield Panel

The 80 meter input coil [PN 40-1012] at L3 now supplied by our vendor has a coil clip that is too large in diameter to fit the mounting hold in the coil shield panel. The coil clip on the new coil is .417" in diameter; the old clip is .406" in diameter. This difference is less than 1/64 of an inch. The .406" diameter clip is no longer being manufactured.

The new coil can be installed in either of two ways:

- 1) Remove the coil clip from the old coil being replaced and use this clip to replace the clip on the new coil. The old and new coils have the same diameter coil form.
- 2) If the old clip isn't available, enlarge the mounting hole in the coil shield panel about 1/64" larger in diameter.

When the new [PN 40-1012] coils are placed in Parts Replacement stock, customers who order the new coil will also be sent an instruction sheet [PN 597-4650] to tell them to use the clip from the old coil or to enlarge the mounting hole.

HL-2200
2KW Linear Amplifier

January 16, 1987

Bulletin No:
HL-2200-7

ICOM Antenna Relay Contacts Fails When Connected
To Antenna Relay Jack On Linear Amplifier

The 120 VDC at the Linear Amplifier antenna jack exceeds the 24 VDC maximum rating of the antenna relay contacts in the ICOM transmitter. This excess voltage causes the relay contacts in the ICOM transmitter to weld together. To prevent this, connect the ICOM transmitter to the Linear Amplifier using a 12 VDC relay

A relay box for this purpose is available from ICOM America, Inc.

HL-2200
2KW Linear Amplifier

February 6, 1987

Bulletin No:
HL-2200-8

Voltage Across Modification Relay Too High

When the PN 890-94 Relay Modification Kit is installed and the Linear

Amplifier is wired for 220 VAC operation, the voltage across the relay is about 200 VAC; the relay is rated at 120 VAC. To reduce the AC voltage, change:

Two 1500 ohm resistors to two 4700 ohm resistors [PN 3-21-7].

The two 4700 ohm resistors are connected in parallel for a total resistance of 2350 ohms. Heath Parts Replacement stock of [PN 890-94] Modification Kits are being reworked.

Thats everything I hold up to 1989 that covers the HL-2200. Enjoy!

73 de Joe W7LPF/4 [NNNOKUU]
QWCA - SOWP - NCVA - FISTS - RCC
Gordonsville, Va 22942 [Orange Co]

HL-2200 2kW Linear Amplifier has added convenience features and a trusted reputation

NEW

\$849⁹⁵

- The ham world's most reputable high-power amp has the lowest price-per-watt in 2 kilowatt Linears
- Standby switch lets you remove the HL-2200 from RF line to go barefoot or perform tune-ups

More of what you want: When it comes to comparison, the HL-2200 has the rugged dependability, superior engineering sophistication and cost-effective intelligence that amateurs expect these days. And it gets big results.

More power in the pile-ups: A pair of world-famous 3-500Z's run at 2000 watts of QRM-busting PEP on sideband, and load to 1 kW for CW and RTTY. A broadband, pre-tuned pi input yields maximum efficiency with extremely low distortion over the 80-15 meter spectrum. Just 100 watts of exciter will drive it to full output – with the kind of signal that always catches the new DX, gets priority traffic through and your call sign heard clearly, year after year.

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Don't waste time losing contacts! Order the HL-2200 today – it's the only amp you need to gain all the professional operating proof you want.

HL-2200 SPECIFICATIONS: Band coverage; 80, 40, 20 & 15 meters. **Max power input:** SSB, 2000 W. PEP, CW, 1000 W; RTTY, 1000 W. **Driving power:** 100 W. **Duty cycle:** SSB Continuous voice modulation; CW, Continuous (max. key-down 10 min.); RTTY, 50% (max. transmit time 10 min.). **Third order distortion:** -30 dB or better. **Cabinet dimensions:** 8¼" H x 14⅞" W x 14½" D.



Kit HL-2200, Shpg. wt. 68 lbs. 849.95
HDZ-63-3, 3-ft. RG-8/U jumper with PL-259 connectors, 1 lb. 4.95