

IMPORTANT BUILDERS'S NOTICE

MARCH 27, 2011

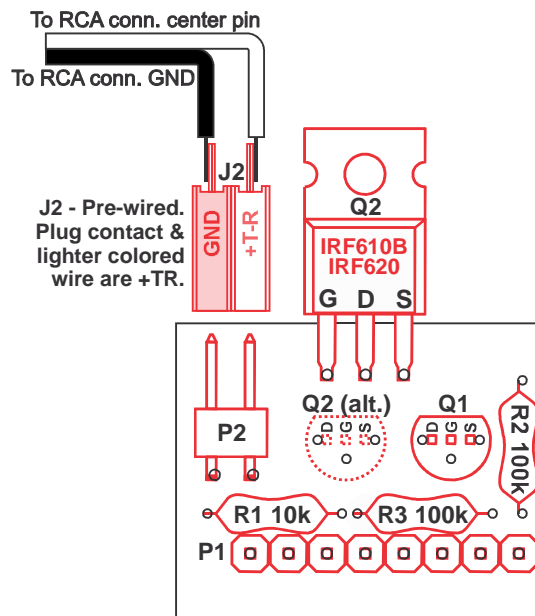
This notice effects only K2 External T-R Driver kits sold after 26 March, 2011.

Due to a change in the minimum quantity (1,000) I must order of the 2-pin housings (J2) for this kit, I have been forced to use a different connector for J2. Instead of the 2-pin housing shown in the illustrations, you will now find a 2-pin header receptacle which has been pre-wired for your convenience.

The wires used on the new J2 connector are LIGHT and DARK and should be easily identified as to their difference. The LIGHT wire will be either white or yellow, while the dark wire will be either black or green.

For the sake of building this kit, always use the LIGHT-colored wire for the +T-R KEYLINE and the DARK-colored wire for the GROUND.

When you attach J2 to the PC board the LIGHT-colored wire will be the inner-most wire of the two when plugged into P2 on the PC board.

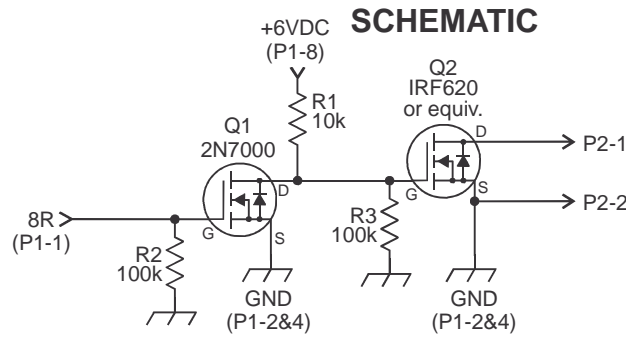


If you happen to reverse this connector, the only thing that will happen is that your amplifier will key continuously (once power has been applied to it), until you reverse the plug on P2. So no harm should come to either your K2 or to your amplifier.

I apologize for this change in the components, but I cannot afford to order 1,000 connectors in order to assemble my remaining 40 kits.

ELECRAFT K2 - T-R External Relay Driver using the 8R Line and J13

Tom Hammond NØSS v2.4 14 MAR 2011



P1 mates with J13 on K2 RF board

J2
Open Drain Output
(pulled to GND on TX)

NOTE: If you do not need to be able to key voltages more than +50VDC or currents over 150mA, you may replace Q2 with Q2 (alt.) (2N7000) at the location shown below. Q2 (alt.) is NOT included in this kit.

J2 - Pre-wired. Plug contact & lighter colored wire are +TR.

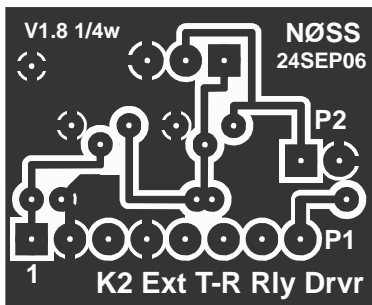


FIGURE 1 - PC BOARD
As viewed from the
BOTTOM of the board

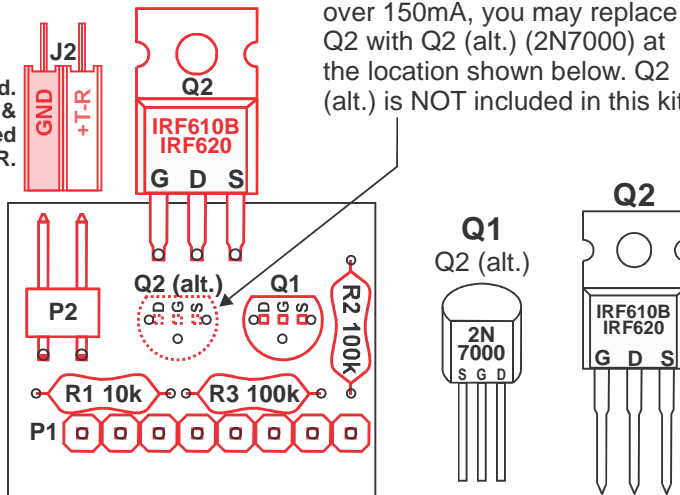


FIGURE 2 - PARTS LAYOUT
As viewed from the TOP
of the PC board

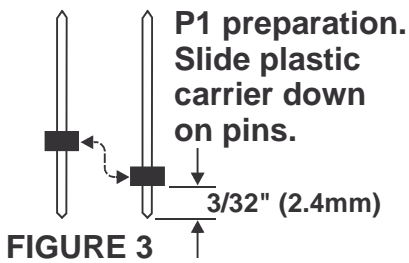


FIGURE 3

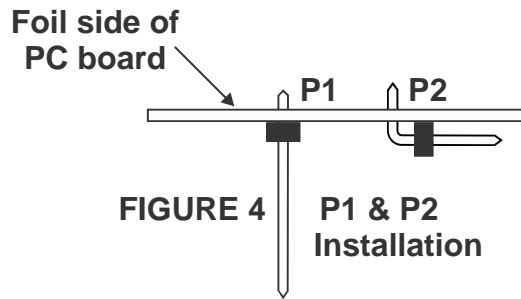


FIGURE 4
P1 & P2
Installation

Q2 - IRF610B or equiv.

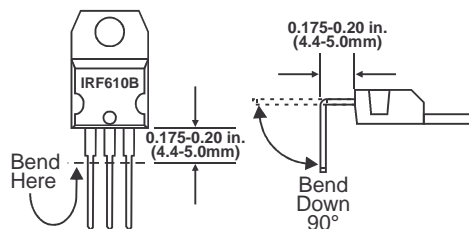
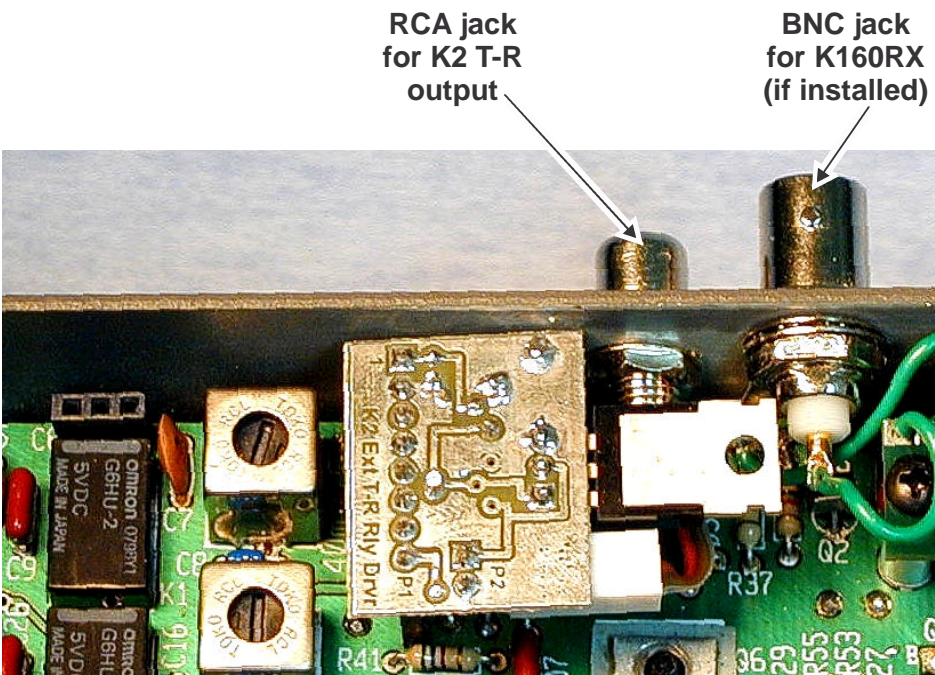
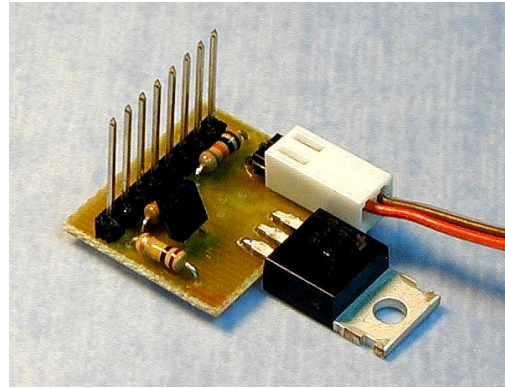
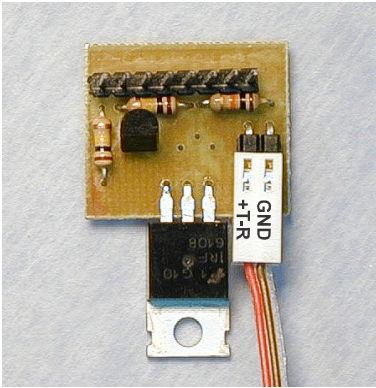


FIGURE 5 - Q2 Lead Bending Detail



FIGURE 6 - J2 Wiring



K2 T-R Relay Driver PC board installed in a K2.

K2 8R-Line External Amp. T-R Control Adapter PARTS LIST

Part ID	Description	Mouser #
Q1	2N7000 MOSFET	512-2N7000
Q2	IRF620 MOSFET (200VDC, 6A max.) or IRF610B MOSFET (200VDC, 3,3A max.) or 2N7000 MOSFET (60VDC, 200mA max.)	511-IRF620 512-IRF610B 512-2N7000
R1	10k 1/4w carbon film resistor (Brn-Blk-Org)	660-CF1/4C103J
R2,R3	100k 1/4w carbon film resistor (Brn-Blk-Yel)	660-CF1/4C104J
P1	8-pin header, "long post" male header	517-834-03-36
J13	8-pin single-row recept., installs in K2 RF-J13	517-974-01-36
P2	2-pin rt-angle header	538-22-28-8020
J2	2-pin housing	538-22-01-2027
Misc	Crimp Terminals for 2-pin housing (2 req.)	538-08-50-0114
Misc	Phono jack, panel-mount	161-1002

FIGURE 7- T-R Output Jack Drilling Template for Older Version K2 Heatsink Panels

