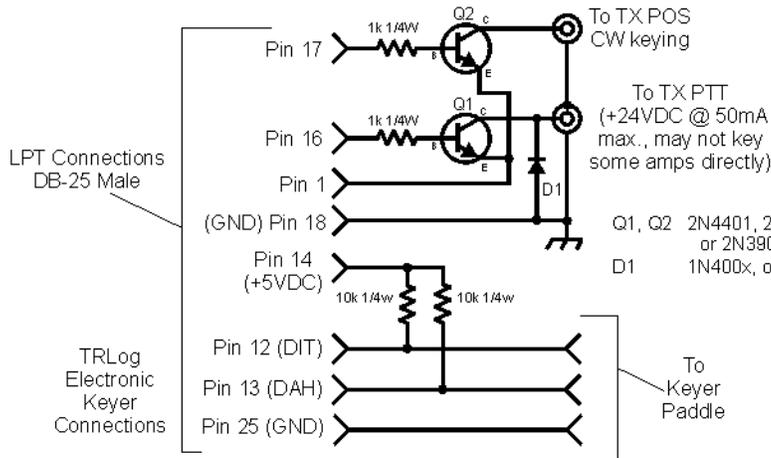# Parallel Port CW and PTT Keying Adapter and Paddle Input for TRLog Keyer

Pin 17

1k 1/4W

Q2

To TX POS
CW keying

Q1

To TX PTT
(+24VDC @ 50mA
max., may not key
some amps directly)

Pin 16

1k 1/4W

Pin 1

(GND) Pin 18

D1

LPT Connections
DB-25 Male

Pin 14
(+5VDC)

10k 1/4w    10k 1/4w

Q1, Q2  2N4401, 2N2222,
or 2N3904
D1      1N400x, or equiv.

TRLog
Electronic
Keyer
Connections

Pin 12 (DIT)

Pin 13 (DAH)

Pin 25 (GND)

To
Keyer
Paddle

## Pinouts for transistors

Base
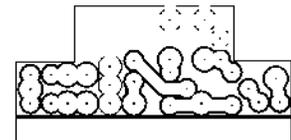
Emitter     Collector

Type: TO-18

E B C

Type: TO-92
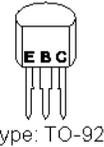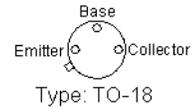
**NOTE**: For TO-92 (plastic)
transistors, bend the base
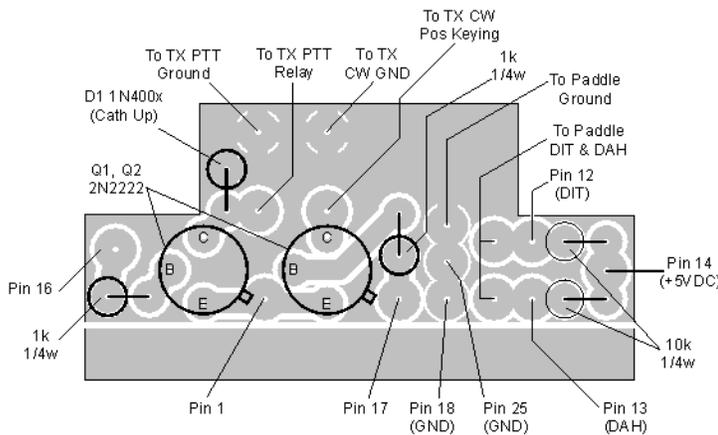(center) lead *forward*

## Full-size PC board drawing

(PC board size is 1-7/16" x 3/4".
Adjust the size of your negative
to obtain these measurements.)

(For positive-working resist)

(For negative-working resist)

To TX PTT
Ground

To TX PTT
Relay

To TX
CW GND

To TX CW
Pos Keying

1k
1/4w

To Paddle
Ground

D1 1N400x
(Cath Up)

To Paddle
DIT & DAH

Q1, Q2
2N2222

Pin 12
(DIT)

C

C

B

B

Pin 16

E

E

Pin 14
(+5VDC)

1k
1/4w

10k
1/4w

Pin 1

Pin 17

Pin 18
(GND)

Pin 25
(GND)

Pin 13
(DAH)

### Enlarged PC board w/parts layout
(shown from foil side of PC board,
components mount on non-foil side)

TX Key Output
Conn. Mtg. Plate
(see text)

7/16"

15/16"

Pre-cut & stripped wire lengths for connecting this PC board to a *male*
DB-25 connector: (Strip 1/8" of insulation from each end, then tin wire)

| Pin number: | 1 | 12 | 13 | 14 | 16 | 17 | 18 | 25 | TX Key | TX GND |
|---|---|---|---|---|---|---|---|---|---|---|
| Wire Length: | 3/4" | 3/4" | 7/8" | 1-3/4" | 3/4" | 1" | 3/4" | 7/8" | 1-1/4" | 1-1/4" |

Wire Color: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
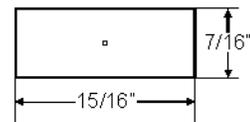
To prepare the DB-25 male connector: With the connector assembled, drill holes in the center of the two diagonal sides. The size of the holes should be no larger than the outside diameter of the wires to be used for the PTT output and Electronic Keyer paddle input.

The TX Keying Output Jack is a chassis-mount RCA jack. Cut a mounting plate (15/16" x 7/16") out of left over PC board and drill a hole in the middle of this plate. The hole should be just large enough to pass the mounting shank of the chassis-mount phono connector. This connector and mounting plate will slip in the space immediately behind the normal cable hole in the D-25 connector, with the RCA connector protruding out of the cable hole for easy access.

The PC board connects to the DB-25 via short, flexible, wires (see wire lengths table). Once completed, the DB-25 should be positioned (with respect to the PC board) so pins 1-13 are at the bottom and pins 14-25 are on the top. Solder the wires to ALL of the PC board holes first, and then solder the wires to D-25 pins 1, 12 & 13 first (with DB-25 pins 1-13 on top and the PC board upside down). Then turn both the DB-25 and the PC board over and complete soldering the wires to pins 14, 16, 17, 18 & 25.

Pins 14 thru 25

Note: PC Board fits just below
the edge of the plastic
insulator of the DB-25
connector
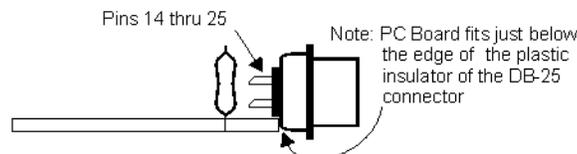
Complete the assembly by installing the two wires going to the TX key output jack and the PTT and Paddle input wires. Attach connectors appropriate to your installation to the ends of these wires.

Screw boss

Pins 14 thru 25
on the TOP

**Note:** The PC Board does NOT fit between the DB-25 pins, but just below the edge of the plastic insulator of the DB-25 connector. It will be held in place by the two screw bosses in the shell of the connector once the shell has been fitted to the connector.

Paddle
In

CW
Out

PTT
Out