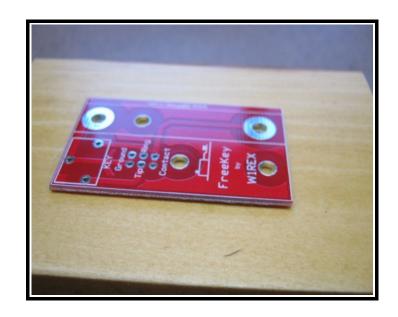
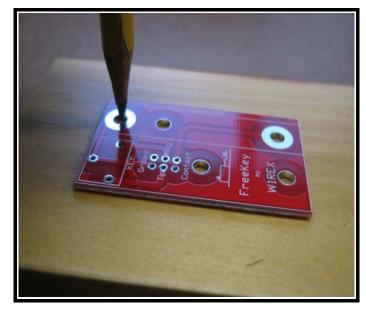
FReeKey

FIND A BASE....



MARK THE HOLES...
THE 2 BIG PADS FOR THE KEY
CONTACTS, 3 HOLES FOR THE KEY
JACK (IF USED) AND THE 6 HOLES
FOR THE CONFIGURATION
JUMPERS OR SOLDERED
CONNECTIONS...



USING A NAIL, MAKE SOME DENTS FOR KEY CONTACT LOCATIONS AND THE SOLDERED LEAD STUBBLE TO FIT INTO...

USE A 1/16" DRILL TO MAKE THROUGH HOLES FOR THE 2 KEY CONTACTS. THEY WILL BE RECEIVING #4 SCREWS WHICH ARE EASIER TO INSERT WITH PILOT HOLES...



SOME TUNA CAN KITS USE AND RCA PLUG FOR THE KEY... I USE ABUNDANT AND CHEAP RCA TO RCA STEREO CABLES. SOME RIGS REQUIRE EITHER A MONO OR STEREO PLUG. SO FIND A CABLE YOU WANT TO USE FOR YOUR RIG...

EXAMPLES OF WIRING THE KEY UP FOR YOUR PARTICULAR RIG'S CONNECTIONS:

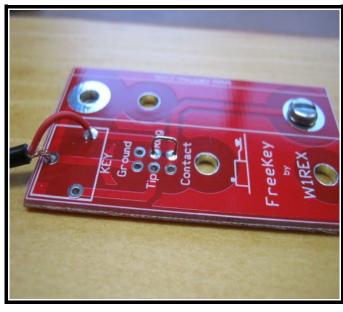
MONO PLUG INTO RIG WITH NO
INTERNAL KEYER:
(NO OPTIONAL STEREO JACK)
WIRE DIRECTLY TO THE RING AND
GROUND CONNECTIONS OF THE
STEREO JACK PADS...
A CLIPPED LEAD JUMPER IS SOLDERED
BETWEEN THE CONTACT & RING
CONFIGURATION PADS.
BOARD IS SCREWED TO THE BASE
USING THE SHORT PAN HEAD SCREW
AND A THIN #4 BRASS WASHER.

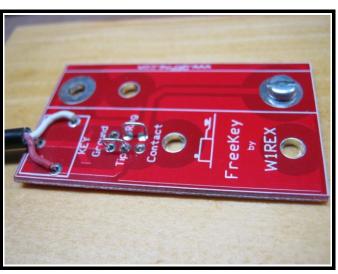
INTERNAL KEYER:
(NO OPTIONAL STEREO JACK)
WIRE DIRECTLY TO THE TIP, RING &
GROUND CONNECTIONS OF THE
STEREO JACK PADS...
A CLIPPED LEAD JUMPER IS SOLDERED
BETWEEN THE CONTACT AND RING
CONFIGURATION PADS AND ANOTHER
BETWEEN THE TIP & GROUND. THIS
PRESENTS A SHORTED PADDLE TO THE
KEYER CHIP WHICH USUALLY DEFAULTS

TO STRAIGHT KEY OPERATION.

STEREO PLUG INTO RIG WITH AN



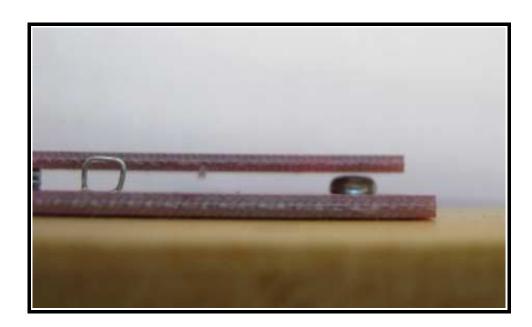




CONVERSELY, YOU COULD SOLDER THE TIP AND CONTACT CONNECTIONS TOGETHER AND GROUND THE RING PAD. THIS IS WHAT HAPPENS (AUTOMATICALLY BY THE PHYSICAL DIMENSIONS OF A MONO PLUG. WHEN YOU PLUG AN 1/8" MONO PLUG INTO AN 1/8" STEREO JACK, THE JACK'S RING CONNECTION IS SHORTED TO THE BODY (GROUND) OF THE MONO PLUG.

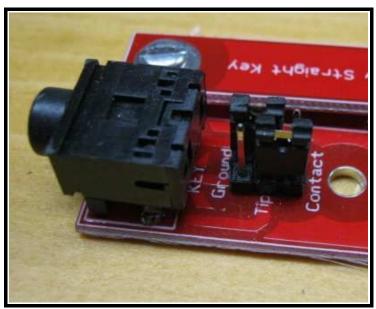
COMPLETE THE ASSEMBLY BY
ATTACHING THE KEY LEVER USING THE
LONGER SCREW WITH 3 OF THE
LARGER WASHERS FOR A STANDOFF.
WITH THIS CONFIGURATION, THE KEY
GAP AT THE CONTACT END IS VERY
NARROW AND A LIGHT ACTION ON
THE LEVER IS ALL THAT IS REQUIRED.





ADDING DIFFERENT THICKNESS WASHERS OR SHIMS WILL ALLOW YOU TO CUSTOM 'TUNE' THE GAP TO GET THE KEY ACTION TO YOUR LIKING.....

AND OPTIONAL 3 PIN 1/8 STEREO
JACK, TWO 1x3x.1" SIP HEADERS OR
A SINGLE 2x3x.1" DUAL ROW
HEADER MAKES THE FREEKEY EASY
TO CONFIGURE TO THE NEEDS OF
ANY RIG. USE 2 HEADER JUMPERS
WHICH CAN BE FOUND IN MOST
JUNK HARD DRIVES.



OBVIOUSLY, WITH A STEREO CABLE PLUGGED INTO A STEREO JACK, YOU CAN EASILY SET THE CONFIGURATION JUMPERS TO MEET THE REQUIREMENTS OF MOST ANY QRP RIG....





A FULLY CONFIGURED MINI STRAIGHT KEY READY TO TRANSMIT...

ENJOY!
REX W1REX