



RADIOWAVES



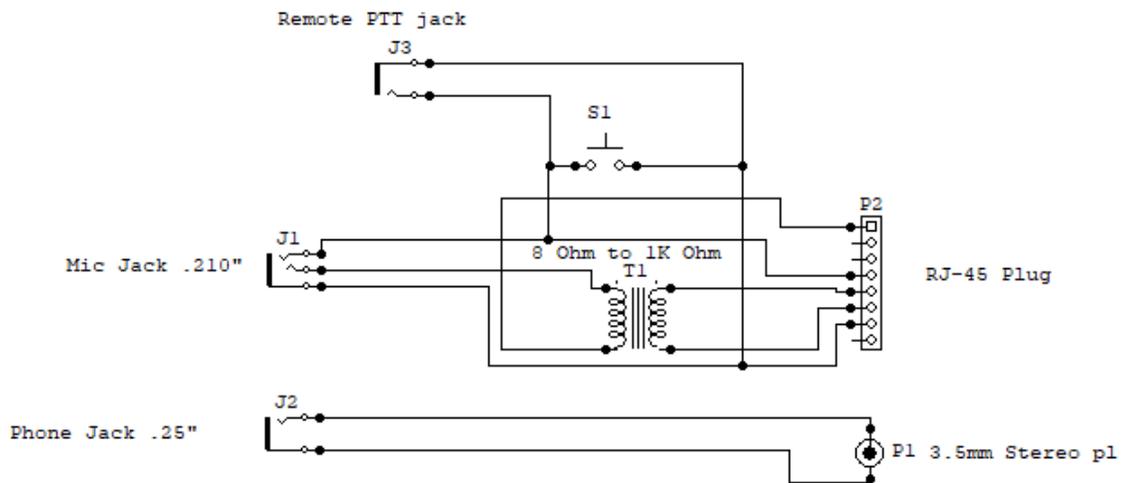
MARCI Newsletter

FROM THE PRESIDENT: The Board of Directors would like to thank Tony Vasile, KB9A, for volunteering for the position of secretary to replace Ben who will be away at college this Fall. It is very much appreciated. In addition, the program for the April 3rd meeting will be a demonstration of the copper J-Pole stealth antenna which would be useful for members with limited antenna options. Hope to see you on Tuesday. George, K4AWA

FROM THE EDITOR: MAJOR ANNOUNCEMENT AGAIN!!!! As some of you readers may know, I have been accumulating various components, parts, connectors, and other materials for several years. All aimed at being able to simply reach for the part or component that I needed for a particular project instead of having to order it from somewhere far away and wait several days before work on the project could continue. This worked very well for me, in fact almost too well. I have now built up such a surplus of various components, parts and connectors etc. that I am beginning to see that I will not use them up in my lifetime. Combine that with the fact that my construction pace has slowed somewhat and I came to the conclusion that a new approach was needed. **Therefore, I pose a simple offer to anyone in our local area. Before you go online and order that special part, call me or email me and see if I already have it. If I do it is yours for the asking. I do not necessarily want any money, I just want to see this stuff get used.** If you can think of it I probably have at least 3 or 4 of them. I know I have over 100 RJ-45 male connectors and the crimper to install them. The other day I came across at least 8 sets of 8 pin round mic connectors, panel mount and in line. Coax connectors too many to count etc etc. You get the idea. **Call Me.**

A Simple Adapter to Connect
An Aviation Headset to your
Amateur Radio Transceiver
By
Geoff Haines, N1GY

This project originally came about because of an invitation to a World War Two Re-enactment at the Florida Railroad Museum in Parish FL. Wanting to somehow make our modern radio gear fit in with the 70 year old artifacts and equipment of the re-enactment I decided to disguise the modern IC-706MkIIIG in a Swedish Army kit box and convert my aviation headset to work with my 706. I did some research and quickly came up with a couple of different designs from the pages of QST. So naturally, I built both of them, wisely, as it turned out because the more complex design which I thought would be better, turned out to be a complete disaster (possibly due to the builder) while the very simple design which used only one internal component (a small audio step down transformer) worked like a charm.



Above is the circuit diagram for the adapter. The jacks that connect to the aviation headset and the remote PTT are on the left and the connections to the radio are on the right. The transformer used to be a Radio Shack part but since Radio Shack is not around anymore, I got mine from Mouser Electronics. The part number is 42TU013-RC and I still have 3 here at the house if anyone is interested. I also have the 3/16" stereo jack for the mic connection and the 1/4" jack for the phones side. Below is the complete parts list:

Quantity	Description	Part Number	cost	Source
1	.210 stereo jack	PHJ-10	\$1.00	All Electronics
1	1/4" mono jack	PHJ-S	\$1.05	"
1	1/8" mono jack	MMJ	\$0.75	"
1	audio transformer	42TU013-RC	\$3.14	Mouser
1	1/8" stereo plug	SMP	\$1.25	All Electronics
1	mic cable for your radio		\$10 approx.	various sources
1	enclosure 2.2x.08x3.3"	1591-MSBK	\$3.50	All Electronics

Assorted hook up wire and 2 conductor cable for receive audio plug



As you can see, I used a very short cable from the adaptor to the radio. My purpose was to avoid scads of extra cable wandering about under the table we were to use looking to trip someone, probably me, up. Note that the built in PTT is on the side and the jack for a remote PTT is on the back. The placement is mainly my response to the fact that the enclosure is densely packed with rather large jacks. So large compared to the ones we use now that some of the lip of the lid had to be cut away to fit the 1/4" mono jack on the right in the picture.

Also please note that the circuit diagram is for an IC-706MkIIG radio. The application of this circuit to other radios will require changes to the pin placements in the mic connector. Listed below are the pinouts for the wires coming from the adapter to the radio.

From the transformer the two leads going to the mic connector go to Mic + and Mic Ground. The lead going to the left side of the transformer comes from the pin that has DC voltage on it. The radio PTT line goes to the PTT circuit in the adapter and also to the ring connection on the mic jack. The radio chassis ground goes to the ground terminal on the mic jack and also to the other side of the PTT switch.

You may note that the connection to the phones jack on the radio is spliced into the mic cable. This is just the way I prefer to do it when I have extra wires within the mic cable that are not used. It is perfectly acceptable to run a separate cable from the radio to the adapter for receive audio.

The original author of this circuit was or is Jim Haynes, W6JVE in Fayetteville AR. And it appeared in the July 2003 issue of QST in the Hints and Kinks Column on Page 59.

THE RADIO AMATEUR'S WORKSHOP

J N D N A H D R I H T S T F C S K D M W
D T Y W L M L H T K O Q A P R Z W A Q I
L N R R X D P C L L G B M E M D M N G R
X U R O N Z L K D K R L T C K M K A N E
N O G M U H K E N I T T M N H R C L K S
R M K S N B R M C O U M H F Z X K Y V T
Z E Z Y R I L A F C S T X Q F M R S T R
T C L M N E T E L K X R F Y N B Z I K I
M A Q G M I V A S A N T E N N A S S J P
T F K X O L N I Z H F N S D S J R C G P
N R N N L O D G R Q O E M C N L E X R E
O U L L G K J Q M D L O I L M A I M G R
I S W A Q N V P P O W N T N T R L B M S
T R I R Q W T L P L O E Z I D V P L C M
I D L N E G Q R L R P F R G N S L O O T
D K P T K N E Y T C K K X C D G M F K F
A G K B M W C C R W B W W J S Z V C M N
R C M D O Z E H L L I G H T I N G L K L
T D C P L L T R E D M Z N V P F K B L N
W H F V E M W T N S M U L T I M E T E R

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ANTENNAS	SURFACEMOUNT
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ELECTRONICS	TOOLS
FABRICATION	TRADITION
LIGHTING	TROUBLESHOOTING
MULTIMETER	WIRESTRIPPERS
PLIERS	WRENCHES
POWERPOLES	

SWAP / TRADE / SELL

If anyone has gear they wish to sell or donate, please send the particulars to the editor for inclusion in the next issue.

For Sale: VHF and UHF Antennas: Made with 3/32" welding rod and SO-239 connector easy to assemble and mount on 3/4" PVC pipe. \$10.00 each Call Geoff at 941-447-8579

PowerPole Power Distribution Blocks in 4+1, 6+1, and 8+1 sizes \$15, \$20, \$25 each respectively Can custom build to suit. Call Geoff at 941-447-8579

Foot operated PTT switches brand new from MPJA wired with 3.5mm mono plug on 8' cable. \$10 Call Geoff at 941-447-8579

33 AH sealed lead acid batteries (2) in commercial battery boxes with float charger. Each battery box has two pairs of Powerpole terminals and a switch controlled digital voltmeter. They also have a heavy duty webbing strap for carrying. Cost: \$70 each or best offer Call Geoff, N1GY at 941- 447-8579

For Sale: Fitbit Flex wireless wristband. New in box, never used. \$50.00.

Contact George, K4AWA 941-807-5475 or E Mail K4AWA@aol.com

For Sale: 5 band Hustler HF Antenna 24 feet high Contact Jerry, KC8NZL at 614-371-4139 Best Offer gets it.

Club Meetings

Monthly Meeting April 3, 2018 Bible Baptist Church 2113 Morgan Johnson Rd. 34208

Monthly Board Meeting April 17, 2018 TBA 7 PM

Monthly ARES Meeting April 24, 2018 Manatee County EOC 7 Pm

Club and Other Nets:

MARCI Info Net	Sunday 7:00 PM	146.820 –100 Hz.
ARES Net	Monday 7:00PM	147.195 + 103.5 Hz.
Manatee Skywarn Net	Thursday 7:00 PM	146.820 - 100 Hz.

PLEASE PARTICIPATE IN ALL THE NETS ANY TIME YOU CAN. The nets on Monday (147.195) and Thursday (146.820)are logged for the Manatee

County Emergency Management and create "billable" hours of Volunteer Participation which results in County provided equipment for ARES.

WCF ARES & INFO Net	Monday 7:30 PM	145.430 –100Hz.
WCF Eagle NTS Net	Nightly 8:30 PM	145.430 –100Hz.
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WCF Skywarn Net	Tuesday 9:00 PM	145.430 – 100Hz
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WCF Technical Net	Thursday 9:00 PM	145.430 – 100Hz
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(The WCF nets are also available on 442.950 + 100Hz.)

Do please try to remember to check into the nets, both local and regional. Participation will only take you a moment out of your evening but it is vital to the life of the net.