

I could use additional reader input for the newsletter. Please take a couple of minutes to drop me a line describing anything you have found useful in operating or repairing your rig. Keep in mind that what may be obvious to you may not be obvious to others!

Rob, WB4RSK has agreed to take over net control responsibilities for a Signal/One net. Rob indicates that the previously suggested 80-meter frequency is not a good choice and recommends a trial net at 1400Z (10AM EDST) on 14280 Sunday mornings. Lets give this a try. I will try to be on hand at this time. (Thanks, Rob!.. ed.)

Recent correspondence has prompted me to repeat a comment made in an earlier issue of S/1 NEWS:

THE PURPOSE OF S/1 NEWS IS ONLY TO DISSEMINATE INFORMATION CONCERNING SIGNAL/ONES FOR THE USE OF ITS READERS IN ANY MANNER THEY SEE FIT. I DO NOT ENDORSE ANY MATERIAL CONTAINED IN THE NEWSLETTER WITH RESPECT TO TECHNICAL ACCURACY, ETC. I PUBLISH RECEIVED MATERIAL AS NEARLY VERBATIM AS I CAN. I AM PUBLISHING THIS NEWSLETTER BECAUSE I THINK THERE IS A NEED (THIS HAS BEEN REINFORCED BY MANY LETTERS I HAVE RECEIVED) FOR IT. I DO NOT WANT ANYONE (INDIVIDUAL OR COMPANY) TO THINK THEY MUST TAKE MEASURES TO "PROTECT" THEMSELVES FROM THIS NEWSLETTER.

A letter from Johnson and Associates (Florida) forwarded some comments concerning KØHHP's concern over 1-amp diodes in the Johnson power supply board. Johnson said that the 1-amp diodes are sufficiently rated but do get warm and that later production units use 3-amp units. Johnson stated that he has 3-amp diodes in stock and will provide these to owners FREE OF CHARGE except for SASE who want to make the change. He further stated that he would provide REPLACEMENT POWER TRANSFORMERS to any owner who establishes to his satisfaction that failed diodes caused the transformer failure. Johnson indicated that the return of the failed transformer showing no other signs of failure but the related winding will be sufficient to allow a replacement unit to the owner. (For further information I suggest you write directly to Johnson and Associates..ed.) By the way, the diodes of concern are CR12 through CR15.

Issue #4 stated that B5750 nixies were available from B&F Enterprises. I called and they actually have B5755's which I am told are interchangeable units. Cost is \$1.67 for 5 or more as stated. Price goes down to \$1.50 if 50 or more so it is not worthwhile to try and get a bulk order up. I recommend you write directly to B&F if interested.

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BOB, WØYVA/4

MAY-75

MODIFICATIONS AND REPAIR INFORMATION

Attached to this issue is a revised schematic for KØHHP's power supply showing the addition of the three IC regulators as described in S/1 NEWS, Volume I, Number 4. Also shown are the required jumpers, grounds, and 50uf capacitor. Revised areas are circled. Refer to Number 4 issue for additional information. (Thanks to KØHHP for taking time to send this for our use)

I noticed an advertisement in a late issue of A.L. Brands Yellow-Sheet by SIGNAL/ONE Corporation, POB 127, Franklin Lakes, N.J., 07417 for their replacement power supply board using new audio IC, improved key line switching, IC regulators, etc., for \$150; New 4 digit LED counter board with improved keyer (can only be used with their above described power supply board), for \$250. Shipping is additional. (By the way, I do not have any further information concerning the CX-11 at this time..ed.)

I received a letter from Larry Pace, W7JST/K2IXP, who indicated he has a repair service for Signal/Ones. His rates are \$15.00 per hour based on the amount of time it SHOULD take to repair a particular problem. He also offers a Service Contract for \$200 per year and under the terms of the contract will repair any problem with the rig within two weeks of receipt and completely re-align and re-tube (I guess this means the final...ed.) at least once in the year period. If anyone is interested contact Larry directly at Pacific Advanced Communications Electronics, 5717 Genematas, Tucson, Az., 85704. (Larry was the manufacturing manager of the Signal/One company when it was located in California and is an engineer by profession..ed.)

For those of you who do not already know, remember that the audio output IC (PA237) is no longer a production unit. (Thanks to W6AXX for reminding me of this fact..ed). The newly designed power supplies available through various sources do not use the PA237. An exception to this is KØHHP's modified power supply which does not change the existing audio circuitry but does upgrade the supply to IC regulators.

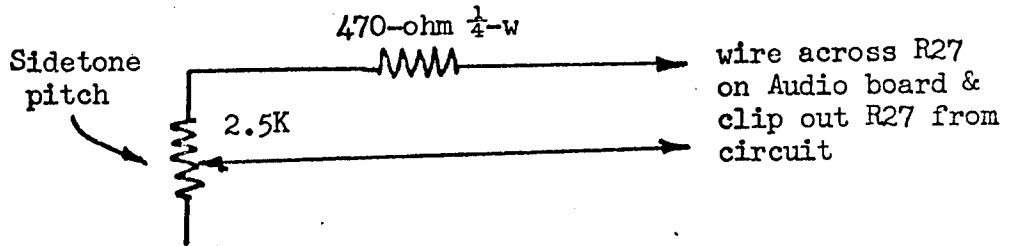
I have not been able to locate a pin-for-pin replacement for the PA237. (In fact, I have not located anything even close as far as an easy modification goes!). If anyone has information in this area, please drop a line to the Editor. I am not the only one who is having trouble getting information in this area .. W6AXX writes that since he blew his PA237, and since the idea of an additional PC board to use a 'replacement' IC does not appeal to him, he is thinking of using an external audio amplifier!

WA9UHV has another idea for adjusting R46, the 8.8 Mhz BFO oscillator: (This is the neatest idea yet - no test equipment except your ear is required.. ed.) Set the IF shift control such that switching from LSB to USB does not change sound of speaker hiss. Then adjust R46 such that depressing the SPOT button does NOT change the character of the hiss. The BFO will then be on the same frequency in transmit mode as in receive mode. (Method is not exact but should be plenty close for practical considerations.. ed.)

WA9UHV also notes that normal transmitter operation is possible with one PA driver transistor replaced with a .01uf capacitor across base and emitter lead locations. Operation is only possible from 80 to 20 meters. This is a handy thing to keep in mind if operation is desired and a replacement driver transistor cannot be located in short order!

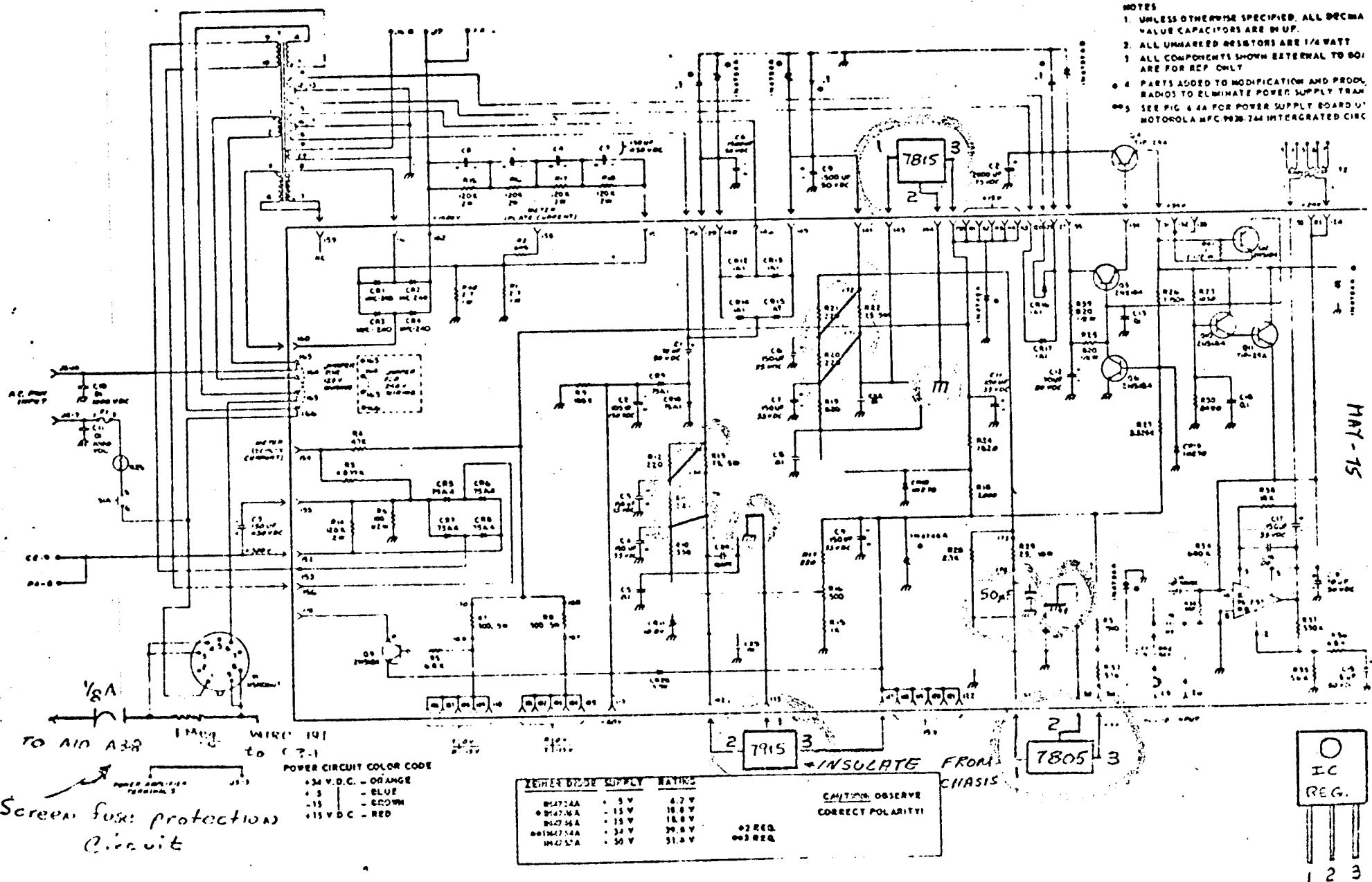
A word of caution for those purchasing the Johnson improved power supply board (from WB4RSK): Upon receipt, the coupling capacitor, C11 from LM380 output to the output transformer was installed backwards and it exploded on initial turn-on! WB4RSK removed a similiar capacitor (50ufd - 35 wv) from the old power supply board, installed it in the new board properly, and had no further problems.

Johnson (Johnson and Associates) forwarded the following suggestion for those who tire of a monotonous side tone when operating CW. The new potentiometer can be installed as a dual concentric unit with the CW speed control. See diagram below:



73,

Bob, WØYVA/4



- NOTES
1. UNLESS OTHERWISE SPECIFIED, ALL DECIMAL VALUE CAPACITORS ARE IN µF.
 2. ALL UNMARKED RESISTORS ARE 1/4 WATT
 3. ALL COMPONENTS SHOWN EXTERNAL TO BOARD ARE FOR REF ONLY
 4. PARTS ADDED TO MODIFICATION AND PROD. RADIOS TO ELIMINATE POWER SUPPLY TRANSFORMER
 5. SEE FIG. 4.4A FOR POWER SUPPLY BOARD OF MOTOROLA MFC-928-744 INTEGRATED CIRC

MAY-75

TO AID A38
 Screen fuse protection circuit

POWER CIRCUIT COLOR CODE
 +34 V.D.C. - ORANGE
 +5 - BLUE
 -15 - BROWN
 +15 V.D.C. - RED

IC	VOLTS	REG.
7815	+5V	REG.
7915	-15V	REG.
7805	+5V	REG.

INSULATE FROM CHASSIS

