

# S/1 NEWS

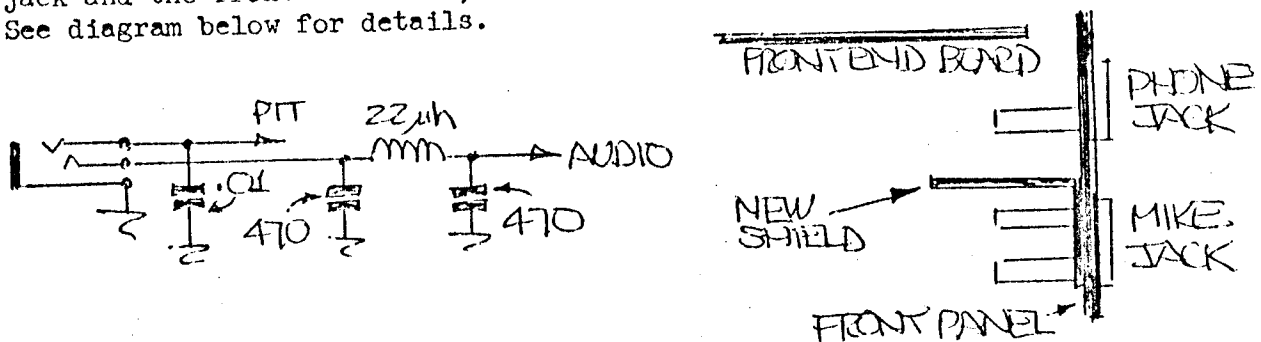
My backlog of letters from readers is down to zero! Please take the time to write concerning anything of interest associated with the CX7 -- I need input for future issues. If you have modified your CX7 in any way, let us know the details. If you only have an IDEA for a modification, let us know that too.

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A circuit was described in the May (Volume II, Number 5) issue of "S/1 News" to allow receiver incremental tuning. It was by W7IV and we noted that the circuit had not been actually built and tested. Harry writes that the circuit described is not built up and functioning well in his rig. Pin 10 of J5 was used (see original article for details) for connection to pin 1 of VFO "A".

Here is a very unique (maybe not??) problem also described by Harry, W7IV. It seems that when Harry would lower his tower (a crank up type) about 20 feet, his CX7 would feedback and oscillate on the 20 meter band - no other band was affected! The problem was caused by the fact that when the tower was lowered, the CX7 was subjected to a slightly higher RF field. Experiments proved that the mike cable was the culprit. The mike jack is right above the section of the Front-End board on which the crystal oscillator is located. Harry explains it as so: "RF enters through the mike cable, and is coupled to the crystal oscillator. On 20 meters, the crystal frequency is 5.4 Mhz. It is then conducted to IC-1, the mixer. There the 14 Mhz RF and the 5.4 Mhz oscillator signal mix to produce 40 Mhz, which goes straight through the IF (39-40 Mhz). Harry would like to know if anyone has a better explanation...

The cure for this problem is to put a small shield between the mike jack and the front-end board, and a filter in the mike audio lead. See diagram below for details.

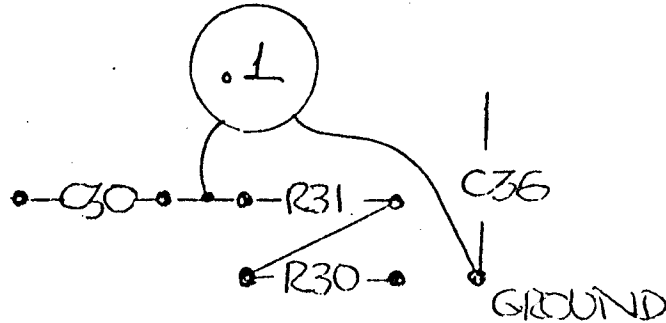
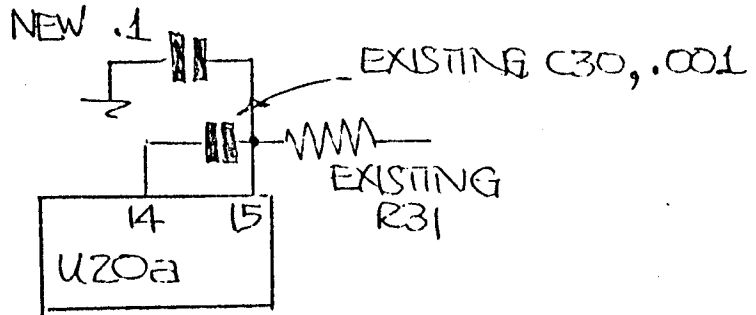


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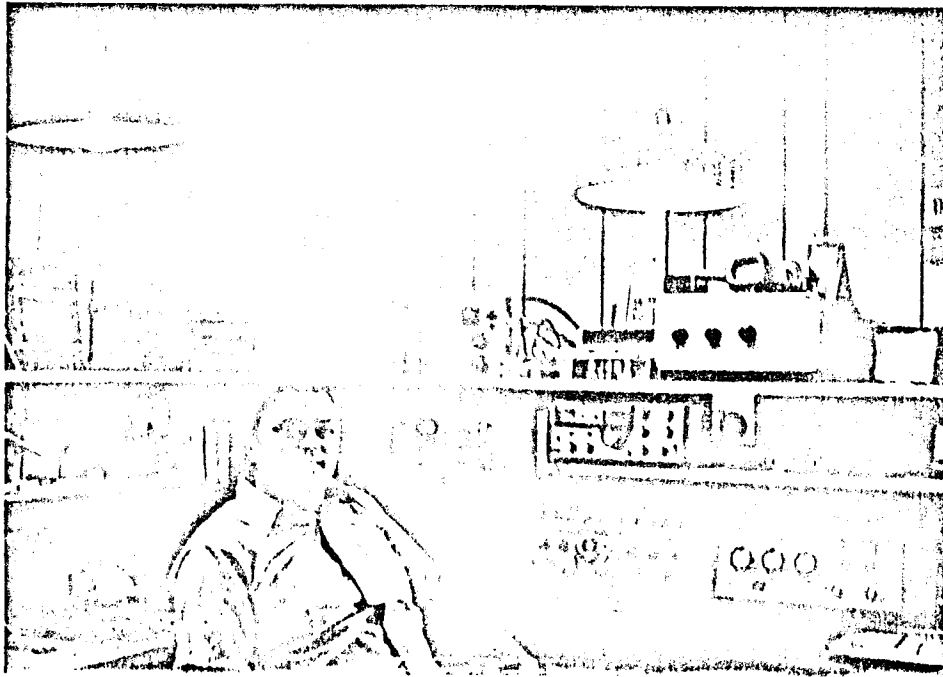
A recent issue of S/1 NEWS described a programmable keyer by HFB Enterprises, W7BBX/4. I recently discussed a minor problem with the keyer with W7BBX concerning the fact that if the keyer is turned on in the XMIT mode, readout will generally occur from the selected memory position until RESET is depressed. This could cause damage to relays in the CX7 or a linear if the keyer is sending at the instant a relay is switching. Howard has generated a simple modification to cure this problem. With the modification the keyer will automatically reset itself on turn-on. None of the other keyer functions are affected.

The modification consists of the addition of one .1uf capacitor (50 volt disc) at pin 15 of U20a to ground. See diagrams below for details.



Next month I will describe preliminary modifications required to allow the use of a frequency synthesizer with the CX7 as described by Harry, W7IV. The modifications are very simple and will allow general coverage from 1 to 30 Mhz in 1 Mhz slices. The synthesizer itself will be described later this year. ed.

Here's DJ4BZ at his operating position. The Heath SB200 linear has been fitted into a Signal/One cabinet.



I had a very informative discussion with Don Roehrs, President of the Signal/One Company. Don indicates they are now shipping CX-11's and all sales are through Don Payne, Payne Radio. Price has been firmed at \$4000! Units are being shipped with a preliminary operational manual with delivery of the complete technical manual in a few months. Don says there is a lot of company confidential information in the complete manual and they do not want it on the street just yet.

The CX-11 is on the "list" for an equipment review by the ARRL.

Don indicates they will be at the convention in Denver. There will be CX-11's set up for actual operation by those interested.

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The following renewals to S/1 NEWS are due: WB6QDV, W6UIW, W2GRU, WB4FCE, W9GYF, W6BH, W7RX, W8EPE, W0NTE, WA9LFR, WA3TMY, 7DNN, W3AQY, K0UTX, Douglas Elec., WB9JJH, KL7EBK, W9ivG, WSIPA, W6KKT, K6BE, W8GIO, VE7BD, W9RER, Higgins, W6RKJ, Craig Radio, W7NJJ, WB6QGL, W5DUU, and WA3KXC.

The following were due in July, 1976: WA9PZB, K8JCQ, and K4HA0.

AUG-76

I located WA0QZW, Randy, the winner of the new CX11 in Hollywood, California where he is on the air as /6 with his new rig. According to Randy, he has operated for about 50 hours on SSB with no problems. He has nothing but praise for the rig. He also mentioned that he does not have ANY manuals and in fact, he was instructed on the use of the rig over the telephone by Don Rohers, President of Signal/One. Randy said he would send pictures of the rig .. when I receive them I will print them the best I can for S/1 NEWS.