From the editor ... We took a long, hard look at the budget and decided that we could easily afford a 48-pager this time ... so inside these covers is a wealth of DX information for your summer-time enjoyment.I've arrived well-to-well static, near-misses from tornadoes and lightning, torrential rains, and 80-mile-per-hour winds so far this month in Topeka, thus able to log a new station(KJEM-1190), so DX isn't quite dead!

Four editors have forwarded information as to their word-processing equipment: Wayne, Bilb, Bill, and Jerry, and I've succeeded in getting my Commodore 64 to talk directly to my Mac, although the Commodore terminal program (VIP Terminal) translates my word-processing program (Mirage) in all caps, so I have some experimenting to do yet. I would appreciate receiving sample ASCII and other text documents for the Commodore 64 on 5.25" diskette so I can experiment with them; I'll send a replacement diskette, of course. My goal for September 15 is to be able to receive via modem or diskette all columns and articles so that they can be formatted into a more uniform appearance (except for those editors who do not have word processors; and I'm certainly not pressuring you to rush out and buy expensive systems). The standard column width will become 3.75", so those who will continue sending hard copy should be making necessary adjustments. Why the emphasis on appearance? Three reasons ... as DX News goes out to many professionals, it should take on a professional appearance; many members cannot easily read some of the present copy; and electronic copy can be filed more easily so that more of it can be placed in the bulletin.

Chuck quits! After thirteen years as the longest-reigning editor of one column, Chuck Burton has resigned and is on his way to Spain, presumable to sample that international DX firsthand. Nic owes you a giant debt of gratitude, Chuck, not only for pounding out the column all those years but for providing a high level of common sense when the NBC needed to make important decisions through those years. Applications for this editorship are now being accepted, and until we are able to choose a successor, send your DX to Topeka.

DXChange ... incites Orlando - 68 Koenig Lane - Freehold, NJ 07728, (201) 462-9087, is looking for a service manual for the Sony ICF-5500W; order of preference for which he'd pay: an original, loan of an original for copies, or copies ... Andre Titter - Kurt-Schumacher-Str. 270 - D-3500 Kassel - GERMANY (West) is looking for a copy of Build Your Own Satellite Dish Antenna by Gordon L. Williams, W5ITI. They joined ... Anthony M. Frusino - Rochester, NY; Don Necum - Roswell, NM; and Gary Stear, Indianapolis, IN. Welcome, gentlemen!

Members: don't forget that we're always happy to send a sample copy of DXN to a prospective member; send names and addresses to Topeka (no need to send postage). Pittsburgh! ... Yep, it's that time again. Check the inside back pages for complete details of the 1990 NBC annual convention. Convention host John Malicky has been hard at work arranging activities in anticipation of a record gathering. Why not make plans now to join us for a weekend of fun?
States changes in AM stations, supplied by the FCC and NRC agents.

CALL LETTER CHANGES

New call:  Old call:
940 KJKX Austin  KEBX+  1380 WTVN MI Bath  WARB
744 KWIN WA Waukegan  DWNJ+  1400 W2J3 AL Decatur  W3MJ
791 W2J2 KY Nicholasville  W2GNM  1410 W2JN FL Sanford  W2BV
980 W2M M FL Palatka  W2GAC  1410 W2JN FL Prattville  W2BV
938 W2NC TN Nashville  W2JN  1450 W2JX MI Grand Rapids  W2BV
960 W2TX TN Memphis  W2JX+  1450 W2JX ME Lincoln  W2BV
940 W2JX OH Columbus  W2JX+  1660 W2JX CA Salinas  W2BV
1088 W2HJ TX Houston  W2JX+  1660 W2JX CA Savannah  W2BV
1290 KFRM AZ Phoenix  KAFM  1440 W2JX MN Jackson  W2BV
1290 WEGZ FL Gainesville  WEGZ  1470 W2JX CA Davenport  WEGZ
1290 W2NC IN Kansas  W2JX+  1610 W2JX ME Brewer  W2BV
1290 KFBT OK Florence  KFBT+  1690 W2JX ME Brewer  W2BV
1290 W2JW TX Big Lake  W2JX+  1690 W2JX ME Brewer  W2BV

APPLICATIONS FOR NEW STATIONS

Address: 6001 Pennsylvania Avenue, Washington, D.C. 20554

FOR NEW STATIONS

880 W2JX Boston: 2500/1000 W (repopulation)
930 W2JX Salinas: 2500/2500 W (repopulation)
1520 W2JX Oak Harbor: 1000 D1

FOR NEW AMA

810 KJXH Princeville: 1000/1000 US (corrects frequency from last issue)

APPLICATIONS FROM EXISTING FACILITIES

W2JX for: W2JX

660 KJXH TX Austin: day power to 20000 watts
870 KJXH CA Glenoak: day power to 14000 watts
980 KJXH CA Fresno: add 200 watts night, antenna to DL
1240 W2JX AL Tallahassee: reduce day power to 600 watts
1270 W2JX FL Naples: night power to 14000 watts
1360 W2JX VA Bridgewater: reduce day power to 2000 watts
1590 KJXH MD Catonsville: power to 10000 (W2JX)
1580 W2JX MD Morningside: night power to 2000 watts
1560 W2JX PA Erie: day power to 10000 watts

Thank you for making the following possible: Jack Walker, TDD, M Street Journal.

Need more information about MW DX? Mail $1.00 to the NRC Pub Center; ask for the Reprints Catalog.

70th and Good DX, Jerry & BKF

Jerry Starr & Buffalo E. Fornham
DOMESTIC DX DIGEST - EAST

SPECIAL

UNIDS AND UNIDS

1060 UNIDS ?? - (no date) 2015 with John Vathan Show (Royal Rangers - Ed, 1), then K.C. Royals BB (Rock-NE)

1070 UNIDS ?? - (no date) 2015 with check at 1200 PM, then Sioux Falls BB, 1200 PM, then Sioux Falls BB, 3:00 PM.

1090 KXBB CO 9 AM to 12 NOON - is probably Mike Nemecek's unit "K-Big". Must be a problem with the new facility.

1180 UNIDS ?? - (no date) 2015 with check at 1200 PM, then Sioux Falls BB, 1200 PM, then Sioux Falls BB, 3:00 PM.

1210 WMHT ?? - (no date) 2015 with check at 1200 PM, then Sioux Falls BB, 1200 PM, then Sioux Falls BB, 3:00 PM.

1250 UNIDS ?? - (no date) 2015 with check at 1200 PM, then Sioux Falls BB, 1200 PM, then Sioux Falls BB, 3:00 PM.

TIES 

CORONADO "GREENWOOD" - 5/12 2145 and has "special" contact report) from International Airport. WARC, then return to REL PHR. On WARC 1400 (91017)

VERIE 

KHTO CA SOUTH LAKE TAHOE - 3/12 0600-0200 varies in 55 days by letter which listed 6 other DXers who heard lost. (see Howard Gadot, RES (6-12)

PHR (6-12)

0100 WPTI MB LANCASHIRE - 11/30 0400-0300 varied in 65 days. (see Howard Gadot, RES (6-12)

950 MA BOSTON - 1/22 0200-0200 verified in 70 days by Michael Klein (6-12)

920 WBU LA DENNIS SPRINGS - 2/26 0500-0600 verified in 29 days by Sam North, RES (6-12)
1600 WRTX IL DEARBORN - 2/5 0100-0300 tough to hear under W5LWH...in order to cross transmitters-experiments...operations not to begin until 5/15 (3C-ON)

1844 WUHI IL FAIRFIELD - 1/12 0600-0630 verified in 38 days by Gil Wallace

2141 WJUI IL LINDENBURY - 7/16 0400-0430 verified in 25 days by Donald Connolly, IL (3C-ON)

2440 WYIT IL WICACH - 2/25 0530-0600 verified in 24 days by James L. Adams

5WIE IL INDIANAPOLIS - 1/17 0200-0200 called station during test. talked to Dave Rohm (W9RT) (3C-ON)

**MIDNIGHT TO 0800 ELT**

800 WWV AM JULIET - 4/5 0000-0200 heard in good con. heard lots of deep air noise. made one contact to 9900. Adjustments made for next time. The QRM is about 100 Hz

950 KBQO CA BAKERSFIELD - 7/19 0600-0630 heard in good con. W5EAV, CA (3C-NE)

960 CCAF AM BAKERSFIELD - 5/15 0600-0630 heard in good con. W5EAV, CA (3C-NE)

1050 CKBB MB WINNIPEG - 6/5 0600-0630 heard in good con. W5EAV, CA (3C-NE)

1100 KOKB AR HOUSTON - 9/12 0600-0630 heard in good con. W5EAV, CA (3C-NE)

1220 WSLN IN SALEM - 6/9 0600-0630 heard in good con. W5EAV, CA (3C-NE)

1340 WHAT PA PHILADELPHIA - 8/25 0115-0200 with 88 kHz down. 605 kHz in RL poor in con. (3C-NE)

1700 KLBA IA ALBIA - 7/14 0600-0630 heard in good con. W5EAV, CA (3C-NE)

1745 KDMX AR FAIRBANKS - 7/14 0600-0630 heard in good con. (3C-NE)

1830 KAXO OK LAKEOW - 6/3 0100 heard in good con. W5EAV, CA (3C-NE)

1840 KJSL OK LAWTON - 6/3 0100 heard in good con. W5EAV, CA (3C-NE)

2140 WJUI WI LINDENBURY - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

2340 WJUI WI LINDENBURY - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

3730 WURL CT JENKINS - 5/19 0000-0030 heard in good con. W5EAV, CA (3C-NE)

4740 WJUI WI LINDENBURY - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

4740 WJUI WI LINDENBURY - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

4740 WJUI WI LINDENBURY - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

1940 WJUI WI LINDENBURY - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

**0800 TO 1600 ELT**

I didn't forget this section. Nothing was reported.

**1600 TO MIDNIGHT ELT**

800 KOAD WY LOVELAND - 8/21 1700-1900 heard in good con. W5EAV, CA (3C-NE)

860 WJUL OR NEW LONDON - 6/21 1600-1630 heard in good con. W5EAV, CA (3C-NE)

990 KAVL IA STORM LAKE - 5/11 0900 heard in good con. W5EAV, CA (3C-NE)

1080 KOOA IA RED OAK - 5/12 2239 very good in heavy static. the air late was a good con. near area. Sixty Eight KMU, 610 kHz, 100-101 kHz (3C-NE)

1190 KGOJ MN JACKSON - 5/10 2144 heard in good con. W5EAV, CA (3C-NE)

1190 KGOJ MN JACKSON - 5/11 0705-0800 heard in good con. W5EAV, CA (3C-NE)

1200 WCGO MK COTTONWOOD - 5/16 1500-1600 heard in good con. W5EAV, CA (3C-NE)

1220 KDKR SD DAKOTA - 6/11 0200 heard in good con. W5EAV, CA (3C-NE)

1220 KTHY SD CROOKES - 5/15 2200-2300 heard in good con. W5EAV, CA (3C-NE)

1240 WTVX KS CHICAGO - 5/18 2200-2300 heard in good con. W5EAV, CA (3C-NE)

1250 KBBF MS FERGUS FALLS - 5/13 2200-2300 heard in good con. W5EAV, CA (3C-NE)

1260 KJTS SD SPRINGFIELD - 5/11 2200-2300 heard in good con. W5EAV, CA (3C-NE)

1300 KAKC OK TULSA - 5/21 2300 heard in good con. W5EAV, CA (3C-NE)

1340 WPAP PA WILMINGTON - 5/12 2300-2400 heard in good con. W5EAV, CA (3C-NE)

1400 KVDR NE MARRICKSVILLE - 6/25 2200-2400 heard in good con. W5EAV, CA (3C-NE)

1400 KVFD IA FORT SUMNE - 5/24 2200-2400 heard in good con. W5EAV, CA (3C-NE)

1450 KWEB MN FAIRBANKS - 7/14 0115-0200 heard in good con. W5EAV, CA (3C-NE)

1450 WLSA WI LA CROSSE - 6/24 0200-0300 heard in good con. W5EAV, CA (3C-NE)

1450 WQAP WI MUSKEGO - 5/12 2200-2400 heard in good con. W5EAV, CA (3C-NE)

1500 WPPC WI MARSHFIELD - 5/16 1800-1600 heard in good con. W5EAV, CA (3C-NE)

1550 KSST SD ST JOSEPH - 5/10 2200-2300 heard in good con. W5EAV, CA (3C-NE)

1590 KTHE NE WYOMING CITY - 5/15 2200-2300 heard in good con. W5EAV, CA (3C-NE)

REPORTERS:

WAYNE HENHEN
4131 S. ANDERS WAY
AURORA, CO 80013
303-996-0635 (prepaid only)

October 9, 1970

Domestic DX Digest - West

Wayne Henhen
4131 S. Anders Way
Aurora, CO 80013

FIDO NET 104/105 (303) 996-6035 (prepaid only)

Midnight to Midnight

790 KKKON HI/Shaakie ska
4/2(Per GM) now NSF but is KOAS 92.1
1000/1200 & week-ends (10-11)
890 KJLJ HI/No
3/19 Per PD as of last date now NSF and using Satellite feed C&W from Drake-Chat

1100 KNUZ KO Grand Junction
6/1 0000 CIB XI -(Grand Valley Weather) & Tom Snyder show. (X=412) 600 CO)

1230 WMEX HI/Peer
6/11 0145 Pirate 7 OLD format w/old Pep & Allie Seiber Spots etc. WMEX spires on BOSTON spots. Live WMEX/1250 BD's. This was 1510 in Boston years ago. s/off 0800 w/America the Beautiful. Strong maybe Denver Metro area who uses this location anyone? (600 CO)

1300 KIPO HI Pearl City
4/24 0350 Nted/ w/Ld prgs/KIPO 893. Began O'hr on 4/23 and uses same two letter array as former KXME. (8000 ON AIR/DF-HI)

CONTRIBUTORS

(P/W CO) John Williams - Wheaton, CO - R-1006, 100+F

(DP-HI) Dale Park - Honolulu, HI - Sangam ATS-80A

1409 KQCO NI North Platte
6/6 0200 This putting a noisy set on 1410 w/RA's, lcl ads, "K-Double" (1-2 split, separa
ted on LSB. (700 CO)

SPACIAL

1400 KABC CA Los Angeles
5/12/70 0200 Under KKKON w/ABC XN & into presumed Ray Brien Show. 1st log from new QTH (DF-HI)

970 KNUO NV Paradise
6/4 0319 "Surviving Metro Las Vegas from the Magma Executive Center, this is KNUO Paradise, Nevada" & CBS XN. Good with QRM (DF-HI)

1515 KXK MB Brandon
6/1 0200 BCN XN & XG. 0705 "Coast to Coast" not M/C prgs. Fair w/KSAL needed. (600 CO)

1190 KRTS AZ/Telecom
6/5 0712 Good w/Contemp. Christian Mx. Staging "Eagle 11-94". (700 CO)

CONTRIBUTORS

(W/C O) John Williams - Wheaton, CO - R-1006, 100+F

(DP-HI) Dale Park - Honolulu, HI - Sangam ATS-80A

WELL, I COLLECT THESE VERIFICATIONS, MR. ROBERTS!

WELL, I COLLECT THESE VERIFICATIONS, MR. ROBERTS!

AND YOU WANT US TO VERIFY THAT YOU HEARD US?!

AND YOU WANT US TO VERIFY THAT YOU HEARD US?!

LOOK, I VERIFY THAT YOU HEARD US, OKAY? YOU LOST ME!

LOOK, I VERIFY THAT YOU HEARD US, OKAY? YOU LOST ME!

HOW DID IT WORK, SPARKY?

HOW DID IT WORK, SPARKY?

...AND YOU'RE THE ONLY STATION IN SOUTHWESTERN OHIO I'VE HEARD!

...AND YOU'RE THE ONLY STATION IN SOUTHWESTERN OHIO I’VE HEARD!

I KNOW! WE'VE GOTTEN 12 LETTERS...

I KNOW! WE'VE GOTTEN 12 LETTERS...

THEY'RE CALLED RECEIVED REPORTS!

THEY'RE CALLED RECEIVED REPORTS!

YOU LIVE RIGHT HERE IN MILLVILLE, RIGHT DOWN THE STREET, IN FACT!

YOU LIVE RIGHT HERE IN MILLVILLE, RIGHT DOWN THE STREET, IN FACT!

NOW LET ME GET THIS STRAIGHT!

NOW LET ME GET THIS STRAIGHT!

KXPG

KXPG

...YOU KNOW WHAT, GUYS!... YOU THINK YOU KNOW IT ALL!

...YOU KNOW WHAT, GUYS!... YOU THINK YOU KNOW IT ALL!

567 NEW ZEALAND 2YA Wellington 5/25 1030 man with talk in British accent; not // 3855 which had cricket (via RNZ Commercial net presumably). Very poor; big slop de ROG 570. (Park)

580 MEXICO XEPR Emmet 98/02 Radio Festival 2303 with many R. Festival ID's, good ID at 2310 "XEEY Radio Festival 380... 1000 Watch AM. Cancun, Quintana Roo". (Pondex)

600 CURA CMKV Urbano Norris 06/05 Radio Rebelde 0510 with Rebelde ID. SS version of "I Could Have Danced All Night", many ballads. (Fon диро)

612 AUSTRALIA 4GR Brisbane 5/30 1010 cutaway for match for ABC news brief 16.00 154: sequel of Tino Turner's "The Ballad of the Sun". SS NSW vs. Queensland soccer or rugby. Very poor to very poor; QRM RSKK-9900/10000/1000/1200/600. (Park)

600 NEW ZEALAND 2FY Napia; (t) 5/30 1106 man with NZ or cultured US accent mentioned 6 past eleven, into Spanishuitar music; resembling // 729 also; very poor; QRM without ID. Bailey/Fiji 110. (Park)

639 FIJI Radio One. Latouka 5/25 1026 island unit w/guitars & xylophone, woman DJ with talk; giving way to KFJ. Poor to very poor; loud AM. (Park)

756 NEW ZEALAND 17A Auckland 6/6 1106 Gordon Lightfoot song; DJ backannouncing the record; other light mx // 530 and 567. Fair to very fair; KGO 760 for repairs until 1100. Day. (Park)

760 COLOMBIA HJAJ Barranquilla 06/06 Radio Cadena Nacional 0504 with "RCA La Colombiana" ID and many spots for the World Cup finals "La Gallera Novena". (Pondex)

810 FIJI Radio Two, Labasa (t) 5/25 1018 Hindi pop mx w/man and woman. Poor to very poor (729). (Park)

890 MEXICO XERE Cozumel 06/06 news frequency mx 1110 with "RM" ID at 2210. Calls for "Mr. Papa's Restaurant" in Cancun and Cozumel; good ID at 2228 "En Cozumel, RM". (Pondex)

970 COLOMBIA HJSB Barranquilla 06/06 CARACOL 0442 with new program, good ID at 1453 "Deade Barranquilla, Emilio de la Torre". National anthem and off at 0456. (Pondex)

980 MEXICO XEBC Cancun 06/06 Radio Caribe 2302 with spot for Rodrigo Blanco "Lo Mas Barato de Cancun" at 2303, then ID at 2400 "RKO Caribe, XS17 880 AM". Could not come out. Good ID. (Pondex)

990 FIJI Radio Three (t) 5/30 1117 male DJ with spinning Hindi talk; modern Indian Hindi mx /ASKa best by man and woman; not // 810. Poor; QRM XIN 900. (Park)

991 NEW ZEALAND 2RX Wellington (t) 6/6 1013 woman interviewing man by phone before slipping underneath FIJI. Very poor; QRM KII. (Park)

992 CURA CMNB Cancun 6/6 tentative at 1342 with Milhill (V) and others, then TC for 3:53 with many mentions of Cuba and Centro America. (Pondex)

1098 MARSHALL ISLES NS23 Majuro 5/29 1009 man in accented EE w/national news, mentions of "RMI" and "Mahjor", headliner, mention "Washington new's" man DJ in Marshellese w/EX during CHARTAERA, SUPERTRANS. Elvis, Simon and Garfunkel. Poor to very poor; KV10 1000 off constantly battling KFXA-1100. (Park)

1107 AUSTRALIA ABC Sydney/Neutral Bay 6/6 1019 Billy Ocean and Beatles songs; DJ saying "I'm on 119-7 on your radio dial, I'm Freddy ..." and picking phone call from listener. Poor to very poor; QRM KFXA-1100 - locally. (Park)

1125 NEW ZEALAND 1SM Auckland (t) 5/11/1011 NZ accented man w/PG of JC in Hebridean music and mixes for Christian counselling giving phone numbers in Hamilton, Auckland, etc. Poor to very poor; local QRM. (Park)

1270 CURA CMNB Havana Gerona 6/8 Radio Caribe 7942 with TC at 1929, then ID at 1930 "Cuba, en el territorio libre sobre America, Radio Caribe". (Pondex)

1314 AUSTRALIA 2ML Wollongong 6/2 1110 Gloria Estefan's "Here We Are", man DJ on "2ML...", mention of Melbourne & Sydney Football game score. Poor to very poor; KDIA 1310 QRM. (Park)

1400 PANAMA WPTV Fort Davis 6/5 tentative 2015 with ABC news, then TC news at 0212, ID at 0225 "APR...". For the best music all day an another ID at 0300. THIS IS THE ARMS FORCED Radio and Television
Log sheets - By Frequency

110 sheets, 25 entries possible per sheet with space available to add your own columns. Punched for three-ring binders, full-size 8.5 x 11 inches, on heavy paper.

US$8.00 (25 sheets for US$1.25).

Order from the Pub Center.
On the banks of the Assabet river in West Concord, MA, at the site of a dam once harnessing water power for its textile manufacturing operation, sits the brick dam. "I will for decades this mill was one of countless small manufacturing facilities in towns clustered along New England's tumbling, rocky streams. Today, the dam has been deconstructed from ruins in the late 1970s, and has found new life as a glinting, glass enclosed office park. And its most prominent tenant is WMD-1120, an unusual AM folk music station that shares one of the most creative voices anywhere on the AM dial.

Folk music as a format is new to the Boston AM dial. In the mid-1970s, 950 wacw-740, Cambridge's programed folk music to a tiny, fiercely loyal audience in its city of license, home to both Harvard University and MIT. However, because of a lack of programming and marketing knowledge, the folk music failed to sell time, and the format succumbed to simple - oriented rock. The station was then sold, and is now 95.5 WPGC (for "We Love Gospel Music").

Today WMD-1120's signal cumulates a thirteen year dream of several folk music devotees, envisioning a station devoted to this mellow sound, as well as alternative information programming. The area's most interesting news and talk, as well as delightful music is carried on 1120 from 6:00am to midnight.

In 1977, Lloyd Simon, a Newton native, radio, and folk music enthusiast, and associate with a Boston market research consulting firm, applied for the frequency, with an eye toward an all folk music station. To the guest, he brought startup experience from two area radio stations, including WFDU in Teaneck, New Jersey, another folk-sorted station. Lloyd attributes his love of radio to listening to Arnie "Woof Man" Ginsburg, WMEX-1310, in the 1950s, and his AM radio operation (WPGC). He majored in Radio Management and Public Opinion Research at Boston University.

The FCC would not consider Lloyd's application until 1980 when the clear channel protection clause was eliminated, and the "concoction" application was competing with WHJ-1440, Bristol, CT, a CBS network "QV" station, and WADB-1130, Salem, NH, seeking a frequency move. The FCC froze all applications until a treaty was renegotiated with the Canadian Government in 1984. WBSJ and WMD

Transmitter Site - An Environmental Preserve

Another barrier was the location for the station's transmitter. Concord is a beautiful, wooded, rural home to many of Boston's business and academic leaders, an influential group of folks who Value nature and the care of the environment. The town is known to generations of school children for its proximity to the Concord battle site, the events which transpired here during the Revolutionary War. A series of radio towers deters from the natural ambiance of the area - so Lloyd Simon faced much local skepticism from those not wishing an unsightly array near their property. He spent two years negotiating with the zoning and water resource boards in nearby Acton to locate his tower array in a wellland off Route 14, on land shared with the Acton Water District. Fortunately, Lloyd Simon's choice of land for the transmitter was owned in part by Lifetime Concordian Dean Coolidge, who died in 1986. Coolidge's family allowed Simon the station on this land. Today, WMD-1120's towers (towers under 200 feet in height) require no lights nor paint in a former gravel quarry inconspicuously blend in with the woodsrue, and WMD is restoring the 23 acres as an environmental preserve, to be named after Dean Coolidge. Students from Lincoln's Carroll School will be invited to paint the wooden fence around the site.

Thought Forms, a local architectural firm, volunteered to build the transmitter house for only the cost of the materials.

With the guest for a license on 1120 has ended, and the transmitter issue resolved, space for the studios and offices were acquired in the unique Damon Mill Square complex - a site which intrigued Simon, who first saw the building, it housed a winery - which has since moved to Bolton. Today, the building houses a current owner, an awaiting river cleanup group, various offices, and it will eventually have a restaurant. Plans are in the works to generate hydroelectricity from the river flowing...
under the building. The building's developer, Bill Sullivan, who
began restoration of the mill in 1977, was, like many Concord
residents, totally behind the WAAM idea. Prior to 1982, Concord
mill was a pile of rubble, bordered by shattered brick walls.
Sullivan's vision restored the mill, and six stories became
a two-story building into an active office space. The centerpiece
of process is the modernist barn which stands amidst the
landscape.

We call "WAAM"

The call letters WAAM take root in the station's deep
commitment to environmental preservation. Concord is perhaps
most noted for Nancy Paul Thoreau's pristine wildness, a
deeply resistant body of water surrounded by evergreen
trees. For decades, ponds, which provided inspiration for
Thoreau's writings, have been a haven for awaiting local residents
in the heat of summer. Thoreau's writings provided a mission
statement for WAAM "Walden 1120", owned by Walden Communications,
Inc. To Program Director Dick Pleasant, the name Walden reflects
"independence of spirit, integrity, honesty, and something
worthwhile for the community".

On the Air - Finally

The results of thirteen years of planning, hoping, dreaming,
and selling were realized on August 10, when WAAM - 1120 joined
Boston's highly competitive, unusually diverse AM dial. A Boston
radio listener can today enjoy a platform of formats from all
taste music to country to talk, to big band, to Black and Spanish
programs, and even some jazz, and a Sunday children's program
on WGBH. But WAAM is perhaps the most unique and satisfying
station to thousands of listeners, stimulated by the talk, and
entertained throughout the day by the folk and aural music.

Dick Pleasant - Folk Music Expert Supreme

WAAM's success will be in great part to Simon's partner,
43 year old Dick Pleasant. Dick has hosted WAAM's Folk
Music program on weekends for over 11 years. Considered to
be the first host of folk music in Boston, and today as a part of
WAAM, his proceeds go back to his Emerson College years, and
he met Lloyd Simons during the startup of sargent's all folk WCBM.
He has also managed a record store and folkloric center, as well as broadcasting on a family radio station.

WAAM's full time and three part time employees also include
on air personalities John Dumas, ex of commercial WMCY
and WMJ, in New York, and Lindsay Ellison, former producer and voice on Fox promotion at WAAM.

Walden World Service

WAAM's folk music is augmented by NBC and CBS feed the only
radio station in New England which carries programming from these
renowned sources, fax by satellite. The weekday broadcast day
begins at 5:00am with a half hour of International news, and ends
at 11am, with news from WAAM. The folk music, according to Mr. Pleasant, is targeted toward a listening audience of 15 - 54. The music is mostly light folk, broad
broad, romantic, issue-oriented, with lyrics about nature and relationships for a generation that finds itself unable to build a career and who wants to recapture the idealism of its youth.

At 6:00am, Walden World Service begins six hours of news
with the NBC News Hour, read from London. Christian Science Monitor's
Broadcast follows, and at 11:00, CBS's "60 Minutes".

Many local events are promoted in Walden State Park. Dick
Pleasant and Lloyd Simon envision local artists and photographers being invited to display their talents in gallery
space in the WAAM studios. The station's goal is to provide its
listeners with local news and distinctive community service,
emphasizing arts and cultural events coverage.

The Broadcasters Guide to DX

A tri-fold guide for use with reception reports explaining DXing, how the NRC was founded, and the importance of QSL's to DXers. Versions also available in Spanish and French; USD$30 for 20. Available from the Pub Center.
In the minds of its creators, Walden 1120's being is tied in with its association to Walden Pond. As Dick Pleasant says, "When you think of Walden, you think of...thoughtfulness, peacefulness. It is a historic link between nature and literature...a strong link to the environment". The Walden 1120 mission, as quoted from Thoreau on a print on the wall of his office, has been learned from, by my experience, that if one advances confidently in the direction of my dreams, and endeavors to live the life he has imagined, he will meet with a success unexpected in common lifetimes. Will WADM go to the top of the Boston Arbitron? Probably not. However, Walden 1120 is attracting a large, devoted audience with its entertaining, creative programs and in-depth news and commentary. The station is a tribute to its founders who have succeeded in bringing an imaginative new format to Boston.

In SHORT...WADM SOUNDS GREAT!!!

Thanks are due to Dick Pleasant and Lloyd Simon for their help in providing information for this profile on WADM. We hope that their venture realizes unparalleled success. And when the Boston Sunday Herald, put your car radio dial on 1120...you will be delightedly surprised. And thanks to WADM for the DX test, which was heard in many parts of the eastern USA.

In Concord, folk radio is blowin' in the wind

MUSIC

A Radio station is the only one of its kind in the country. It's called WCHR and broadcasts in Concord, New Hampshire. The station's license was granted in 1940, and it's been on the air ever since. The station's format is a blend of classic rock, oldies, and folk music. The station's slogan is "The Music You Remember, The Sound You Forgot".

Right now the station is an urban alternative, playing a mix of new and old tracks. The station's DJ, Mike Jackson, is a local legend. He's been on the air for over 30 years and is known for his encyclopedic knowledge of music. His shows are a mix of music and conversation, with Mike frequently bringing in local musicians to perform live on the air.

WCHR is an independent station, and relies on local support to stay on the air. The station has a strong following in the Concord area, and attracts listeners from all over the state of New Hampshire.

The station's logo is a picture of a young woman holding a violin. The station is located on the corner of Market Street and Main Street, in the heart of Concord.

WCHR was the first radio station in the Concord area, and is one of the few remaining independent stations in the state. The station's staff is made up of volunteers, and the station relies on donations to stay on the air.

The station's format is a mix of classic rock and oldies, with a strong emphasis on folk music. The station's DJs include Mike Jackson, who has been on the air for over 30 years, and Liz Gagnon, who has been on the air for over 20 years.

The station's slogan is "The Music You Remember, The Sound You Forgot". The station's logo is a picture of a young woman holding a violin.
The large number of stations going to satellite programming reveals that AM broadcasting is not exactly a viable choice of career. Many on air staffs are looking for work, in a mildly competitive, low paying industry.

In response to constructive criticism, abbreviations such as W Y L C and C M R are quite accepted for music of Your Life and Country and West 49.

And, in response to your feedback I've added a format to the old format and in addition to other formats, this column endeavors to identify the primary format. However, if a station is not on the basic radio broadcast service, it will not be identified as a primary format.

WYML AM Houston, TX - Business news (GP).

The format for the station is "Business News" (GP).

1290 WABC NY - ABC News 720.

1260 WMJL GA - Job News.

1220 WDFN OH - Columbus, GA - News.

1280 WBNY NY - Schenectady, NY - News.

1230 WScr PA - Scranton, PA - News.

1250 WLSA WI - Green Bay, WI - News.

1260 WBBM IL - Chicago, IL - News.

1230 WCBS NY - New York, NY - News.

1260 WRGB AL - Tuscaloosa, AL - News.

1240 WGBF KY - Lexington, KY - News.

1250 WJIM WI - Milwaukee, WI - News.

1290 WJZ MD - Baltimore, MD - News.

1260 WJAR RI - Providence, RI - News.

1270 WJZD OH - Dayton, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.

1250 WJZU OH - Columbus, OH - News.

1260 WJZT MD - Baltimore, MD - News.
The Answer Man

No Question Is A Dumb Question

Answers to members' questions, from the basic to the technical

Once again, the ANSWERMAN cometh! And once again, a correction, hi. Last time I mentioned a bit of 3/4, I had nothing pending. I have one letter with a group of questions regarding AM Stereo, which I've asked a couple of people about, but for so far no solid answers. So, allow me to reprint the technical and regulatory aspects of AM Stereo and would like to try to answer these, let me know, and I'll forward a copy on to you.

A few issues ago, we had a question regarding two WD-120A's which were behaving somewhat strangely. For clarity, I've selected the question along with the answer which I've just received from another member, which supplements my prior comments:

QUESTION: Both of my WD-120A's have a similar problem. The one goes dead at frequencies above 13 MHz. The other is dead on the top frequency range (18.50 - 20 MHz). Why is this? Is there an easy fix?

ANSWER: In both cases, the problems can be traced to bad tubes. The most likely culprits are 1) the 6BE6 first mixer, 2) the 6C4 first oscillator, and 3) the 6BE6 first RF amplifier. If the cause is 1) and/or 3), a quick fix would be to switch the 6BE6 first mixer and the 6BE6 third mixer (455-60 Hz converter), and/or switch the 6BE6 RF amplifier and the 6BE6 crystal oscillator tubes. If neither problem goes away, then check for the two like tubes mentioned in question properly need replacement. Although there are not two 6BE6's in one receiver, switching these tubes in question will herald a new life to the other receiver. Another way to do this is to replace the tubes from one receiver to another, while the first is turned off and the second is on.

If neither my suggestions earlier nor these work out, then either someone else may have some ideas, or, there may not be an easy way out.

On the more general subject of availability of tubes, don't overlook Radio Shack or something similar as a source. My preference, which I know several other members share, is a few flea market. If you've got the time, go looking, and see if you can get a tube for that, and you may well be able to get reduced prices on others (or more of the same), or may even a bulk price for the lot.

QUESTION: When DX'ing on my car radio with the engine running, I often get voice interference, what am I hearing? The engine running, what can I do to get rid of this?

ANSWER: If the noise you're hearing sounds like a buzz or a popping which is directly related to the engine RPM's, then the substitution of a set of suppressor spark plugs for the standard issue ones should help. Here are a few available from various sources:

- Capacitor type: $4.95
- Modified: $3.95
- Ceramic: $5.95

It's recommended to switch to these types of plugs if the audio is not adequate. However, the actual vehicle a spark plug should also have an alternative wire or electronic ignition system. I'm not certain how much of the interference you may derive from either of the above remedies. However, they're both inexpensive and worth a try. Alternator wire may also be suppressed by means of a line filter, which is familiar to radio amateurs. This would have to be inserted into the power wires supplying the radio.

QUESTION: I've found that on older cars, the noise is much worse than on newer cars. I've tried various gimmicks marketed to reduce noise, without much success. Moving the front of the car, it seems to be the best. Is it usually the alternator? Is the use of rebuilt or repaired alternators as opposed to new ones an issue?

ANSWER: Your initial observation about older cars generating more noise is valid, but there may be several causes. Electrical noise can come from the alternator, as well as from the distributor, the spark plugs, or from any electronically-powered accessory. As all of those age, so will the noise, and if any of those fail, generate noise. Failure to keep the car in proper tune can contribute, too. If a part is a true, factory rebuilt, it should not be significantly noisier than new, but for dealer or other rebuilts, anything.

Once again, the ANSWERMAN cometh! And once again, a correction, hi. Last time I mentioned a bit of 3/4, I had nothing pending. I have one letter with a group of questions regarding AM Stereo, which I've asked a couple of people about, but for so far no solid answers. So, allow me to reprint the technical and regulatory aspects of AM Stereo and would like to try to answer these, let me know, and I'll forward a copy on to you.

A few issues ago, we had a question regarding two WD-120A's which were behaving somewhat strangely. For clarity, I've selected the question along with the answer which I've just received from another member, which supplements my prior comments:

QUESTION: Both of my WD-120A's have a similar problem. The one goes dead at frequencies above 13 MHz. The other is dead on the top frequency range (18.50 - 20 MHz). Why is this? Is there an easy fix?

ANSWER: In both cases, the problems can be traced to bad tubes. The most likely culprits are 1) the 6BE6 first mixer, 2) the 6C4 first oscillator, and 3) the 6BE6 first RF amplifier. If the cause is 1) and/or 3), a quick fix would be to switch the 6BE6 first mixer and the 6BE6 third mixer (455-60 Hz converter), and/or switch the 6BE6 RF amplifier and the 6BE6 crystal oscillator tubes. If neither problem goes away, then check for the two like tubes mentioned in question properly need replacement. Although there are not two 6BE6's in one receiver, switching these tubes in question will herald a new life to the other receiver. Another way to do this is to replace the tubes from one receiver to another, while the first is turned off and the second is on.

If neither my suggestions earlier nor these work out, then either someone else may have some ideas, or, there may not be an easy way out.

On the more general subject of availability of tubes, don't overlook Radio Shack or something similar as a source. My preference, which I know several other members share, is a few flea market. If you've got the time, go looking, and see if you can get a tube for that, and you may well be able to get reduced prices on others (or more of the same), or may even a bulk price for the lot.

QUESTION: When DX'ing on my car radio with the engine running, I often get voice interference, what am I hearing? The engine running, what can I do to get rid of this?

ANSWER: If the noise you're hearing sounds like a buzz or a popping which is directly related to the engine RPM's, then the substitution of a set of suppressor spark plugs for the standard issue ones should help. Here are a few available from various sources:

- Capacitor type: $4.95
- Modified: $3.95
- Ceramic: $5.95

It's recommended to switch to these types of plugs if the audio is not adequate. However, the actual vehicle a spark plug should also have an alternative wire or electronic ignition system. I'm not certain how much of the interference you may derive from either of the above remedies. However, they're both inexpensive and worth a try. Alternator wire may also be suppressed by means of a line filter, which is familiar to radio amateurs. This would have to be inserted into the power wires supplying the radio.

QUESTION: I've found that on older cars, the noise is much worse than on newer cars. I've tried various gimmicks marketed to reduce noise, without much success. Moving the front of the car, it seems to be the best. Is it usually the alternator? Is the use of rebuilt or repaired alternators as opposed to new ones an issue?

ANSWER: Your initial observation about older cars generating more noise is valid, but there may be several causes. Electrical noise can come from the alternator, as well as from the distributor, the sparkplugs, or from any electronically-powered accessory. As all of those age, so will the noise, and if any of those fail, generate noise. Failure to keep the car in proper tune can contribute, too. If a part is a true, factory rebuilt, it should not be significantly noisier than new, but for dealer or other rebuilts, anything.

Speaking of moving the antenna to the back of the car, that's always preferable for an antenna. Your best mounting position for an AM would be on top of the car, as far away as possible. This is preferable, but the tradeoff is that the signal is always increasing, and that newer cars and car radios must have better suppression capabilities to resist it. That, too, may account for some of the difference you see.

QUESTION: I live in an apartment, and I don't have a room for a loop, and I can't string a wire antenna. Other than a used Spark Shack, what options do I have?

ANSWER: There are several. In a prior column, I discussed the concept of the spiral loop, which may be an alternative. Another alternative might be (subject to the availability of ferrite rods) to wind your own ferrite-core antenna, using a length of wire, and experimenting with various ways to find the right position for it. This is not necessarily a difficult process, and I'm sure you can find several suggestions in the literature. One option is to use a ferrite antenna tuner, and I refer to the Ferrite Antenna Reference Manual, Vol. 1, which will provide you with the necessary information. You may choose to use a vertical, using a replacement car antenna, adjusting its height to suit. This, too, may be tuned.

OTHERNESS: I've received some additional information on the prior question about the Radiola III and its WD-11 tube. A reader writes that an excellent source of antique radios is Antique Radio Classified, P.O. Box 309, Carlsbad, CA 92008. Their current issue is dated January 1989, and lists the WD-11 at $42.00, which may be refundable on subsequent order. Listed in the WD-11 at $35.00, and a WD-11 at $45.00. Neither of these is available from the Radiola IJ, nor did I know what was the difference between the two, if any. They also carry all sorts of other accessories, including Radiola lamphoods and Burgess batteries. I've completely forgotten about them — I've received some of their catalogues, before.

If you'd rather substitute for the WD-11, another reader relates that the radio will probably function as well with a type 01 or O18, which are available from Radio Shack, and may be more affordable. As the WD-11 was only used in production for about 3 years. Should the batteries available from the manufacturer not be adequate, these could be made from the available alkaline cells or transistor or lantern batteries, if you know the values. For the WD-11, the filament replaces about 4, 18 volt batteries, the plate requires about 4 volts, the anode 22.5 volts. (9-volt transistor batteries stacked together should suffice).

Still another option for others is a similar situation might be the Radiola VI. It is known to me, but you might either see something available there, or place an ad for what you might need.

Guess that should close this edition. See you next time!
Radio Roundup ... by Pete Kemp

Greetings all...Garrison Keillor is Public Radio, Hawaii’s KIPO is now on the air. It’s a good day. Farewell air with 5,000 watts, Rudie Miller has appearance will be June 15th, on-air on the air in Baltimore as host National Public Radio...Dick Clark, Paul of the WMB’s 9 to noon talk show, Harvey, Charles Osgood, and Frank Stanton entertainment show. Miller has been a friend of the personality previously been a news anchor on WTOP into the Emerson Radio Hall of TV...The NHL’s St. Louis Blues has Past...WWV-AH has admitted paying the decided to produce its own radio and television show for WWVA in any radio or TV purveyor in the time. In the past, the sports columnist Hubbard Messler to its on-air programming, as WWJ in Texas, and WJTN, in air staff for 90-second sports Michigan, also at radio Dallas, in the area. It’s a fine program for KODL, in Texas, and WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area. WJTM, in air staff for 90-second sports MNBX, over the air in Dallas, in the area.
May 7, 1961 - Weather, TX - Lakeway 7-8204:

The early part of May was very slow for fire. As in Kansas City, the chief of the department was slow to approach his problems. This is an example of how the problem has been to poor siting.
Phasing Unit Designs: Simple to Complex — by Mark Connelly

The use of a phasing unit to null out a dominant station (allowing other stations to be heard) can often be of considerable benefit to the DXer. By using two wire antennas and such a unit, the DXer may enjoy effects comparable to those obtained by rotating a loop. Many DXers have used phasing with great success in the last 25 years or so. Situations where a loop is not suitable (e.g., when the operating position is inside a steel-frame building, mobile home, or vehicle) are those for which phasing is most highly recommended.

Numerous articles on the construction and use of phasing units have appeared in the medium-wave DX press. This article will draw references from these previous works:

**MICROWAVE-MDX-4A Loop vs. Wire Phaser** (15 May 1989)

**MDX-4 and Mini-MDX-5 series Phasing Units** (11 Oct 1985)

These articles give parts lists, phaser operating techniques, and construction methods useful to the phasing unit builder/user. Copies of these articles may be obtained from the request services of NRC and IBOA.

The purpose of this article is not to go into a point-by-point description and construction plan for a specific type of unit, but to give some design schemes that, coupled with the other articles mentioned, will allow a DXer having little technical experience to get a simple unit up and running in short order. The first design to be presented represents the bare minimum in terms of component count and design complexity for a 2-wire phasing unit that can be realistically expected to produce useful results at electrical noises in an adequate number of situations to be worthwhile. Figure 1 shows the schematic of this basic medium-wave unit. Table 1 lists the principal parts required.

Table 1: Parts List for the Basic Phaser

<table>
<thead>
<tr>
<th>Part</th>
<th>Description/Value</th>
<th>Vendor Stock #</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chassis box</td>
<td>MOU 557-TP779</td>
<td>1</td>
</tr>
<tr>
<td>2-9</td>
<td>Resistors</td>
<td>GS 274-416</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Capacitors</td>
<td>MOU 430-394</td>
<td></td>
</tr>
<tr>
<td>11-14</td>
<td>Inductors</td>
<td>MOU 430-707</td>
<td></td>
</tr>
<tr>
<td>15-19</td>
<td>Potentiometers</td>
<td>MOU 430-707</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Switches</td>
<td>MOU 430-707</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Transformers</td>
<td>GS 274-416</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Resistors</td>
<td>GS 274-416</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Capacitors</td>
<td>MOU 430-394</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Inductors</td>
<td>MOU 430-707</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Potentiometers</td>
<td>MOU 430-707</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Switches</td>
<td>MOU 430-707</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Transformers</td>
<td>GS 274-416</td>
<td></td>
</tr>
</tbody>
</table>

**INSTRUCTIONS:***

1. At the Figure 1 points labelled A, B, C, and D, break the connections and insert potentiometers and fixed resistors according to Figure 2.

**Figure 2: Dual Level Pots Option**

---

The hole list of the Mini-MDX-4 can be used, with the following deletions: left side 1, 3, 5, & 6; top side 12 & 13. In place of the 50k R1, two pots (R1 = 25k shunting C1, R2 = 25k shunting C2) could be used for a bit more flexibility. In that case, Mini-MDX-4 top side holes 12 & 13 would be used.

**Figure 1: Basic Phaser**

**NOTE:** LETTERS IN BLOCKS (E.G., A) ARE REFERENCE POINT DESIGNATORS USED IN THE ARTICLE.
This will give more flexibility in setting up nulls. Note: these added pots control level without greatly influencing Q; therefore, they play a different role from that of R1 in Figure 1. They do not replace R1; rather, they supplement it.

*2X* Replace sections C - C and D - D with the set-up of Figure 3.

**FIGURE 3: LENGTH SWITCH OPTION**

REPLACE SECTIONS BETWEEN FIGURE 1 C - E AND D - D WITH THE FOLLOWING:

![Diagram](image-url)

C = 62 pF

D = 62 pF

S1 = LENGTH SWITCH

The added 4-pole, 3-position rotary switch is referred to as the "length switch." Its purpose is to allow efficient tuning of longer wire antennas (e.g., over 30 m) than the Figure 1 method can. Signal-to-receiver-noise ratios can be improved in some circumstances. For even a bit more flexibility, use separate length-switches for Line 1 and for Line 2 (probably a bit ideal if vertical- vs. horizontal- vs. Beverage phasing is to be done).

Note that the tuning capacitors "float" from chassis ground in this design. This results in a bit of mechanical inconvenience during the construction process. Use of a plastic, rather than a metal, chassis box would be helpful.

*3X* Replace the 4-pole, 3-position bandswitch (S1) with a 4-pole, 6-position type (Figure 4A) or with a 2-pole, 12-position type (Figure 4B).

The Figure 4B set-up gives more frequency coverage than that of Figure 4A, but achievable output levels are somewhat less.

*4X* Add a switch (or two switches) to go from wire operation to external loop operation on one (or both) of the lines feeding the summation point. See the MNOX-4 / Mini-MNOX-4 article for such a set-up (Figure 1B of that article).

*5X* Smoother / more precise tuning may be obtained through the use of vernier reduction-drive knobs (e.g., Mouser part number 456K100) on the two tuning capacitors. The Micro-MNOX-4A article gives a detailed description of how this can be done. Note that extra holes and hardware, and more panel space, will be required. The mechanical layout should be worked out thoroughly before drill meets metal. For an even better set-up, put vernier knobs on any level-balancing and Q-adjusting pots as well.

*6X* An amplifier could be included in the phasing unit box (as was done with the MNOX-4), or in a separate unit between the phaser output and the receiver input. An amplifier input level adjustment pot or stepped attenuator should be provided. The amplifier module has a 60 and/or an unusual wide dynamic range figure. My current methodology is to put a small-signal, non-power-hungry 20-dB-gain broadband amplifier inside of the
phasing unit box (see W4MX-4) for rural-locaters or shorter-than-normal-wire operation, and to use a more "muscular" (power-oriented) amplifier, usually of high-tuned design, in an external box when off-channel signals are too high for
the built-in amplifier. One could theoretically build a high-Send (e.g., regenerative) amplifier into the phasing unit box, but this would increase the number of control knobs on the phasing unit box to the confusion-inducing level. Induction of DIX operating efficiency would be the inevitable result.

"Active phasing"

Gain could be put between the high-impedance point of each of the two high-impedance / low-current point (typically referred to as "front-end" or "active probe") cards. Doing this would eliminate the need for the inductive-divider network in the B1 network. This active-phasing concept is probably the only viable way of phasing two very short antennas (e.g., our whips). The 60-pF input coupling capacitors should be increased to over 200 pF for car whip gain. With active phasing, gain has been increased with the help of W4CNX DB Labs. But intermodulation/distortion/crossmodulation/overlapping effects have been shown to have a serious limitation with typical JFET
(2N4416 / MRF102) high-2 input amplifiers. WPE FET designs and amplifiers built around "buffers" such as the National Semiconductor 140933 and the Burr-Brown 3553 look more promising in this regard. The control panel front-ends, of course, get
rather warm and consume much more power than a 9-volt transistor battery could ever deliver.

Conclusion

A very simple phasing circuit design, as shown in Figure 1, can be used effectively to null out unwanted signals and allow
new antennas to be added. The construction of this Basic Phasing is
within the capabilities of many DXers.

With a bit more investment in time and materials, phasing units of greater complexity can be assembled. The specific
envelopments chosen will tailor the unit to perform better in
two of the most important areas of this phasing concept (higher frequency
employed, greater sensitivity, better nulls).

DXers are always encouraged to report any research results from phasing unit experimentation. The most meaningful results,
in the final analysis, are the new antennas put into the logbook.

KJLA-AM goes off the air for good

The Kansas City Star
via Jeff Lewis

BY BARRY GARRON

Radio station KJLA-AM (1190 on the dial) shut down operations at 5:25 a.m. Tuesday in accordance with the city's
ordinances. The station went off the air this morning after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.

The station, known as KJLA-AM, has been broadcasting on the FM band since 1936. The station's primary
function is to provide emergency broadcasting during storms and other emergencies.

The station's broadcast was shut down after a successful transmission of a short-wave broadcast at
11:30 p.m. Monday. The station's broadcast was
broadcast by the Kansas City Amateur Radio Club.
other sets it had to be reduced very often. The quality of the sound is acceptable for a home receiver to be used as background music entertainment.

As to the state of the batteries, the ones in the TRP were Duracell, bought last year, used very often, at home during blackouts and in the country on our trips. The ones with the EX-400, they were about one year old, in the Toshiba they were new, not used, but the one in the 12-65S was not new, bought with the set in New York, just received.

Summing up, we thought we had a good day with this set. But no, we had discovered something we were not looking for - the old Toshiba was really as sensitive and selective as the TRP, on the nulling aspect it was as sharp as the TRP. The 12-65S was neither selective, sensitive or had any nulling capacity. So, I think our effort was worthwhile, while the 12-65S was not what we expected, the Toshiba is a treasure just discovered.

BILL ALISAUASKAS
HACKETTSTOWN, NJ
CHRISTMAS WEEK 1989

540 WLIX Islip, NY 1
550 WFLY Bloomington, PA 1
560 WAAZ Philadelphia, PA 3
570 WBAR New York, NY 3
580 WABC New York, NY 2
590 WBAR Scranton, PA 3
600 WCCM Bridgeport, CT 1
610 WIP Philadelphia, PA 3
620 WHQ New York, NY 4
640 WDEL Scranton, PA 2
650 WAFM Scranton, PA 6
660 WFTY New York, NY 4
700 WIP New York, NY 4
730 WSN
740 WIP Chester, PA 2
750 WAXY New York, NY 4
760 WJZ New York, NY 4
780 WHN
800 WIP New York, NY 1
860 WKG New York, NY 2
890 WDIA Memphis, TN 3
900 WIP New York, NY 1
940 WDIA New York, NY 4
980 WLS New York, NY 4
990 WFLY Philadelphia, PA 1
995 WHKX New York, NY 1
1020 WTOP Washington, DC 2
1030 WWJ New York, NY 2
1040 WJNI New York, NY 4
1060 KTV Philadelphia, PA 2
1070 WABY Scranton, PA 3
1090 WRB Philadelphia, PA 1
1100 WVDB New York, NY 2
1110 WBZA Scranton, PA 1
1120 WOR New York, NY 1
1140 WOR
1150 WNYW New York, NY 4
1170 WBRO Scarsdale, NY 3
1180 WLIB New York, NY 3
1200 WOR
1210 WABC Philadelphia, PA 3
1215 WGNX New York, NY 1
1230 WDGE Easton, PA 1
1240 WEAZ White Plains, NY 1
1250 WNET New York, NY 3
1270 KDCA Washington, DC 2
1290 WABC New York, NY 1
1320 WJZ New York, NY 1
1330 WFLY Philadelphia, PA 2
1340 WMAL Middleburg, VA 2
1350 WMAL Washington, DC 2
1360 WJZ New York, NY 2
1380 WRGB New York, NY 2
1390 WRB Philadelphia, PA 4
1400 WJZ New York, NY 3
1410 WFLY Philadelphia, PA 2

BANDSCANS
Chris Cuomo
670 Third Avenue
Verona, NY 13478

AUDIBLE STATIONS FROM A DXER'S LOCATION AT A GIVEN TIME.

BILL ALISAUASKAS
HACKETTSTOWN, NJ
CHRISTMAS WEEK 1989

540 WLIX Islip, NY 1
550 WFLY Bloomington, PA 1
560 WAAZ Philadelphia, PA 3
570 WBAR New York, NY 3
580 WABC New York, NY 2
590 WBAR Scranton, PA 3
600 WCCM Bridgeport, CT 1
610 WIP Philadelphia, PA 3
620 WHQ New York, NY 4
640 WDEL Scranton, PA 2
650 WAFM Scranton, PA 6
660 WFTY New York, NY 4
700 WIP New York, NY 4
730 WSN
740 WIP Chester, PA 2
750 WAXY New York, NY 4
760 WJZ New York, NY 4
780 WHN
800 WIP New York, NY 1
860 WKG New York, NY 2
890 WDIA Memphis, TN 3
900 WIP New York, NY 1
940 WDIA New York, NY 4
980 WLS New York, NY 4
990 WFLY Philadelphia, PA 1
995 WHKX New York, NY 1
1020 WTOP Washington, DC 2
1030 WWJ New York, NY 2
1040 WJNI New York, NY 4
1060 KTV Philadelphia, PA 2
1070 WABY Scranton, PA 3
1090 WRB Philadelphia, PA 1
1100 WVDB New York, NY 2
1110 WBZA Scranton, PA 1
1120 WOR New York, NY 1
1140 WOR
1150 WNYW New York, NY 4
1170 WBRO Scarsdale, NY 3
1180 WLIB New York, NY 3
1200 WOR
1210 WABC Philadelphia, PA 3
1215 WGNX New York, NY 1
1230 WDGE Easton, PA 1
1240 WEAZ White Plains, NY 1
1250 WNET New York, NY 3
1270 KDCA Washington, DC 2
1290 WABC New York, NY 1
1320 WJZ New York, NY 1
1330 WFLY Philadelphia, PA 2
1340 WMAL Middleburg, VA 2
1350 WMAL Washington, DC 2
1360 WJZ New York, NY 2
1380 WRGB New York, NY 2
1390 WRB Philadelphia, PA 4
1400 WJZ New York, NY 3
1410 WFLY Philadelphia, PA 2

1420 WGOJ Easton, PA 2
1430 WNYR Newark
1440 WVEP New York, NY 1
1450 WJHT New Brunswick
1460 WKNX Allentown, PA 1
1470 WIL New York, NY 2
1490 WILE Erie, PA 1
1500 WMJX Scranton, PA 2
1510 WATX Allentown, PA 1
1520 WVEP Elizabeth
1530 WJH Allentown, PA 2

1540 WABC New York, NY 3
1550 WHKX New York, NY 4
1560 WJZ New York, NY 3
1570 WJZ New York, NY 3
1580 WMJX Scranton, PA 2
1590 WATX Allentown, PA 1
1600 WVEP Elizabeth

1610 WABC New York, NY 3
1620 WJZ New York, NY 4
1630 WJZ New York, NY 2
1640 WMJX Scranton, PA 2
1650 WATX Allentown, PA 1
1660 WVEP Elizabeth

1670 WABC New York, NY 3
1680 WJZ New York, NY 4
1690 WJZ New York, NY 2
1700 WMJX Scranton, PA 2
1710 WATX Allentown, PA 1
1720 WVEP Elizabeth

1730 WABC New York, NY 3
1740 WJZ New York, NY 4
1750 WJZ New York, NY 2
1760 WMJX Scranton, PA 2
1770 WATX Allentown, PA 1
1780 WVEP Elizabeth

1790 WABC New York, NY 3
1800 WJZ New York, NY 4
1810 WJZ New York, NY 2
1820 WMJX Scranton, PA 2
1830 WATX Allentown, PA 1
1840 WVEP Elizabeth

1850 WABC New York, NY 3
1860 WJZ New York, NY 4
1870 WJZ New York, NY 2
1880 WMJX Scranton, PA 2
1890 WATX Allentown, PA 1
1900 WVEP Elizabeth

1910 WABC New York, NY 3
1920 WJZ New York, NY 4
1930 WJZ New York, NY 2
1940 WMJX Scranton, PA 2
1950 WATX Allentown, PA 1
1960 WVEP Elizabeth

1970 WABC New York, NY 3
1980 WJZ New York, NY 4
1990 WJZ New York, NY 2
2000 WMJX Scranton, PA 2
2010 WATX Allentown, PA 1
2020 WVEP Elizabeth

As you may notice, this edition of Bandscans is in yet another different typstyle. This column was printed on First Publisher. I am not sure that I like this new word processor as I can not set tabs on it, thus the signal strength column in Bill Alisauaskas scan is cramped. If anyone knows how to set tabs on this particular word processor, please let me know. I must again state: PLEASE INDICATE ALL LOCAL STATIONS (within 10 MILES/50 KM). I also wish to state that Bandscans is not a weekly column like VRX or WUX. Bandscans is printed whenever space permits. Recently, space has been limited due to the CFC tests and address changes. I make an effort to send in my column as soon as possible, usually within two weeks or whenever I get enough scans for a sizeable column. In short, a delay is expected between the time your scan is sent to me and when it gets published, especially now when DX News is not published weekly, so don't complain. I just want to make this point known. Keep those scans coming. 73s.
Greetings all. In a quick move, Jeffery S. Williams, son of the legendary Jeffery W. Williams, has been assigned as the new co-host of the show. The show will be co-hosted by Jeffery W. Williams. The show is now being broadcast from the show's new location in New York City. The show will be broadcast from 8-11 PM, from Monday to Thursday.

Greetings from the show's new location in New York City. The show will be broadcast from 8-11 PM, from Monday to Thursday.

Greetings from the show's new location in New York City. The show will be broadcast from 8-11 PM, from Monday to Thursday.
counted seven new resorts being built just down from where we were staying.
Any, to the DX: I heard 3 Mexican stations - XNY-580 in Cancun, XESR-810 in
Cancun (new frequency, ex-1170), and another Cancun station on 880 (I never
get a clear ID to determine the last 3 letters, (no gain). I heard 5 Cubans - CNV-600 Bejel, CHP-550, CRN-1270 Radio Caribbe, CHVY-1430/
CHVY-1440 Radio Surcoex. Also, I heard the Radio Mate outlet from Florida on
1393; they owned all day and all night! There was an AMW outlet on
1420 that came in at night; I suspect that this could be AMWA-Pt Davis,
Panama (if so, my 1st Panama station). I heard 2 Colombians - WJAL-760 RN-
Barranquilla, and WSN-870 CARACOL Barranquilla. Plus, I hears 2 stateside
stations - KYM-1320 Newport, IA, and KFW-1590 Houston, TX. This will be my
last tuning from this address. I will be moving in a few days to Houston,
TX, where I will be working for a NASA sub-contractor on the new Space
Station Freedom. I hope to be able to DX and have more often down there, hai
Later, and good DX.

DAVE SCHMIDT - N1X6P - WILMINGTON DE 18380

That's everything thru 7/19, going out on the last roll collection at the
Wilmington PO (8 PM). While looking for the WIX-1300 f/c on 6/26,
Sharky PBO, P.O. Box 18 stop the frequency rack at that point; could this be
PLANO, TX in 6/27 format change for someone else? It was at a strong
level, way above WHEL. The sideband margin on 1100-1 is supposed to be
in the neighborhood for all WHEL's by 8/20/71. If you note a drastic
drop in sideband noise from your local, a little more of a "muffled"
sound, it's probably in. If they're hooked up right, sideband splashing (on
which I knew it) should be drastically cut. 73's

Join the Target DX revolution!
What's the best time to hear that elusive station...can you actually still hear a station from the opposite coast? If you hear one station in a city, can you expect to hear another? Help yourself by making requests before you leave the house. Jim Renfrow's "Target DX" column. There's strength in numbers and shared information...and what better way to DX than by DXing? Smart! Send your requests and tips to Jim at 41 Wilcox St., Augusta, N.Y. 14410-3802.

Convention-goes...fistreders, please write "bus tour" after your name on the registration form below and send $5 in a separate check or money order from the registration fee for a bus tour of Pittsburgh, tentative station tour, and KDKA XQ tour (bus departs Marr-
riot at 11 am Saturday and returns at 4 pm). You may obtain your ticket when you arrive at the hotel. Refunds only if tour is cancelled; no refunds if you cancel while at convention. Send your $5 check made payable to "NRC."