



# Ham Hum

August 7, 2020 Volume LXX, Issue 8

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## AKSARBEN ARC Club Meeting – July 10, 2020

The meeting was called to order at 7:04 PM by roll call on the repeater and introductions on Zoom. There were 23 attendees, 21 members on Zoom and 2 members on the repeater

Officers and Board members present included: Sean, AD0QG; Dan, N0POT; Dave, N0JSB; Brian, KE0GKB; Rea, N0REA

**Secretary's Report - Brian, KE0GKB** - The minutes were posted in the Ham Hum.

**Treasurer's Report - Dave, N0JSB** - - As of June 30 the club accounts had balances of: Main Checking \$4,489.05, Repeater Checking \$332.60 Savings \$6,993.03, CD Life Member one \$6,495.39, CD Life Member two \$6,746.96, and CD Repeater \$1,112.65 This leaves the balance of all the club accounts at \$26,169.68.

In the month of June there were no deposits.

In the month of June there was one expense of \$99.85 for parts for the repeater.

**President's Report - Sean, AD0QG** - The board did vote and decide to cancel Flea Esta for 2020 but it was decided that the club members would make the final decision.

After a brief discussion a motion was made by John WBOCMC that Flea Esta be canceled with a second by Mary N0TRK. After a roll call vote of all members on the repeater and on Zoom the vote was 17 Yes, 5 no, and one Abstain. The motion to cancel Flea Esta was approved.

**Vice President's Report -- Pat, W0OJU** No report

## **Disaster Preparedness:**

**SATERN - Mary, NOTRK** - The Satern net is Monday nights and 7PM, you do not have to be a Satern member to participate.

Army MARS has asked for SATERN's participation in assessing how well MARS members can communicate across the United States. MARS will participate in SATERN's 20m Net on Monday July 20 & Thursday July 23 (not the entire week as originally requested, between 1415 UTC until the net ends, approximately 1600 UTC. The frequency will be 14.265 MHz or 14.312 MHz if required.

**Community Service Committee - Mary, NOTRK-** The Market to Market relay has not been canceled at this time, more information will be coming at future meetings.

**Education Committee - Rea NOREA-** There is a testing session at the Red Cross in Council Bluffs on July 28, 2020, you must have a reservation to test and mask are required.

**Membership Committee - Mary, NOTRK** five new members were presented to the club. KF0AQK Andrew Embury; K0NOX John Lavoie; KF4BNL Edward Kennedy; W3BJW Braydon Walsh, KE0WYP Joshua Edwards. A motion was made by John WB0CMC with a Second by Kyle AD0ZC, after a brief discussion all applications were approved by a unanimous vote.

**Web Services - Mary, NOTRK/Adam, KDOMMG** -The website is working

**Repeater - John- WB0CMC** A new 25-watt Element was purchased to replace a 100-Watt Element that is decades old, this increased sensitivity will aid in monitoring the performance of the 94 repeater.

**Field Day - Adam, KDOMMG** - If you did field day and you made at least 1 contact and you have submitted your logs to the ARRL and listed the Aksarben ARC as your club you are eligible for a \$50 gift card and some other prizes.

**Courtesy Committee - Bill Snyder KDOFJR** - A card was sent out to WBOCMC who was in the hospital.

**Flea-Esta** - Flea Esta has been canceled, the vendors will be contacted, and other clubs and community will be informed through Social media and on various nets throughout the region.

There was no old or new business before the club, so a motion was made by Mary N0TRK with a Verbal second and the meeting was adjourned at 8:02

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## **AKSARBENARC Flea Esta 2020**

If you have not yet read about the Flea Esta on the Website,  
It has been **Cancelled** for this year.

I did some additional testing on the PXO. I put the CE5 on wideband and the audio distortion went away. (DUH!) Frequency response with a -13dBm input, 429.215, 13th harmonic:

10 Hz and 12KHz= -6 dB deviation

20 Hz and 6 KHz= -3 dB deviation

Flat from about 50Hz to 5 KHz audio modulation

Response to 20 KHz, with a 400Hz tone starts to clip @ +- 15 KHz deviation with a 4 KHz down shift in frequency. (not surprising)

With a 400 Hz tone, deviation at which clipping starts depending on the harmonic:

3 rd , barely makes 5 KHz with distortion and frequency down shift

5 th , starts clipping at 5 KHz

7 th , 6.5 KHz

9 th , 9 KHz

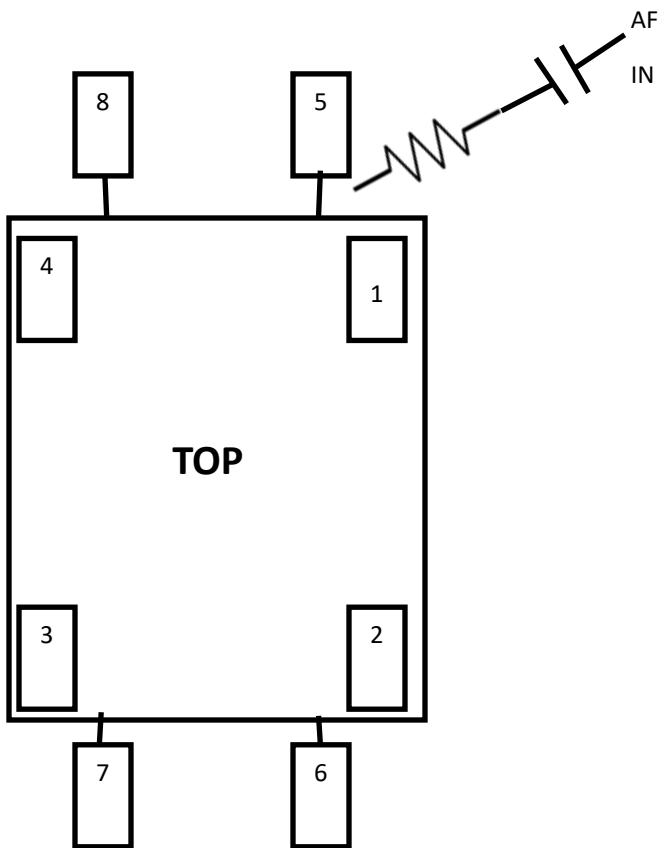
11 th , 12 KHz

13 th , 14 KHz

Higher harmonics not tested. The pattern is quite predictable as expected. Below is the 510 series PXO.

See Diagram on page 5

Pins 6 and 7 (my #s) appear to be open and may be CK and DATA for programming. Pin 8 has a .555 Volt potential on it and pin 5 a .33 volt static level. The later will probably be higher at higher PXO frequencies since it is the loop voltage. Pin 8 may take part in the programming as well. I didn't do anything with it except measure it. One thing that needs watching, this was dead on frequency when I started. It has dropped 2.1 KHz @ the 13th harmonic which is about 160 Hz at the fundamental. I can probably attribute this to my monkeying around with it and adding too much audio to see where it overdrives, screw-driving and other such things in the testing procedure.



## Area Nets

### Monday

7:00 PM 145.290 South-West Iowa ARES Glenwood, IA.

8:00 PM 144.250 NE Missouri SWOT.

9:00 PM 146.940 AARC Chat Net. Ak-Sar-Ben ARC Omaha, NE.

### Tuesday

9:00 PM 145.310 Washington Co. ARES Washington Co, NE.

### Wednesday

7:00 PM 146.670 Dodge Co. ARES Dodge Co, NE.

7:30 PM 7.122 CW Four State QRP Comfortable Net.

8:00 PM 3.564 CW Four State QRP Comfortable Net.

8:00 PM 145.310 Saunders Co. ARES Saunders Co, NE.

8:30 PM 7.122 CW Four State QRP Comfortable Net.

9:00 PM 3.580.5 PSK Four State QRP Comfortable Net.

9:00 PM 146.820 Pottawattamie County ARES Council Bluffs, IA.

### Thursday

8:30 AM 7.122 CW Four State QRP 40M Morning Net.

7:30 PM 145.310- Lincoln/Omaha SATERN Net. Ashland, NE.

8:00 PM 28.350 SSB 10-Meter Net.

8:00 PM 144.250 2-Meter SSB Net.

8:00 PM 147.360 Heartland DX Association.

### Friday

10:00 PM 224.760- Tone 146.2 Promote the Band Net

### Saturday

12:00 PM 146.82 Swap Net Council Bluffs, IA.

8:30 PM 3.921.000 QCWA Chapter 20.

### Sunday

8:00 AM 3.902.500 Swap Net.

8:30 AM 3.897.500 3900 Club.

8:30 PM 443.925+ (103.5 tone) IRLP Net.

2:00 PM 50.200 6 Meter Net

9:00 PM 146.940- Douglas Co. ARES net, KØUSA repeater.

## August Veep Says Contribution for Ham Hum

### Kudos for Joe Eisenberg KONEB

In recent months Joe has been operating his 3D printer around the clock making face shields for the Lincoln Fire and Rescue department. Their Facebook page had the following entry:



This is Joe, a citizen hero who lives in Northeast Lincoln. Joe has been making protective face shields on his 3D printer since COVID19 began. He says he has been running his 3D printer 24 hours a day to produce the forehead piece of the mask. His printer can make six per day. He then takes the other components and assembles the face shields. Joe stops by Station #5 every couple of days to drop off his shields. He says he is honored to be able to use his time and materials to help our first responders and other medical providers during this global crisis.

Joe, we are honored to know you. We thank you for your generosity and your talents. Your kindness is greatly appreciated!

Jeff Leaf City of Lincoln Government.

But there is more!!! Joe was honored for his contributions to ham radio by YASME with their national “Excellence Award”. This award recognizes his technical, operating, and organizational achievements. Joe was specifically recognized for his kit building seminars across the county and for his contributions as the Kit-Building Editor for CQ magazine.

YASME’s award announcement stated” Joe exemplifies the ‘give back’ and ‘self-teaching’ spirit of ham radio, especially in training youngsters. The award was a \$1,000 grant and an engraved globe.

Well done Joe!!!  
Pat Connell W0OJU

## Club Officers & Board Members

President	Sean Edwards	ADØQG	president@aksarbenarc.org
Vice President	Pat Connell	WØOJU	vicepresident@aksarbenarc.org
2018 Secretary	Brian Sohl	KEØGKB	secretary@aksarbenarc.org
2018 Treasurer	Dave Rice	NØJSB	treasurer@aksarbenarc.org
2019-2021 Director	Dave Rice	NØJSB	board@aksarbenarc.org
2019-2021 Director	Dan Buchholz	NØPOT	board@aksarbenarc.org
2018-2019 Director	Brian Sohl	KEØGKB	board@aksarbenarc.org
2018-2019 Director	Ray Blackburn	NØREA	board@aksarbenarc.org
Immediate Past President	Kevin Hill	KAØVNY	board@aksarbenarc.org

## Club Committees

Courtesy Committee	Bill Snyder	KDØFJR	courtesy@aksarbenarc.org
Education	Ray Blackburn	NØREA	education@aksarbenarc.org
Field Day	Adam Kavan	KDØMMG	fieldday@aksarbenarc.org
Flea-Esta	Chris Rice		flea@aksarbenarc.org
Membership	Mary Joseph	NØTRK	membership@aksarbenarc.org
Monday Night .94 Net	Rich Swig	WAØZQG	wa0zqg@hotmail.com
P.I.M.P.	Jim Westcott	KAØKCV	pr@aksarbenarc.org
Prizes	Open	Open	prizes@aksarbenarc.org
A.R.E.S.	Steve Schmitz	NØUP	n0up@arrl.net
Publications	Brian Pitchanau	WEØBEP	hamhum@aksarbenarc.org
QSL Manager & Technical	Ed Edwards	KØIL	qslmanager@aksarbenarc.org
Special Events Coordinator	Pat Joseph	KØCTU	community_service@aksarbenarc.org

Technical Assistance	Ed Edwards	KØIL	technical@aksarbenarc.org
Web Services	Mary Joseph	NØTRK	web_master@aksarbenarc.org

## Repeater Committee

Chairman	John Gebuhr	WBØCMC	repeater@aksarbenarc.org
Vice Chairman	Steve Schmitz	NØUP	repeater@aksarbenarc.org
Control Operator	Mary Joseph	NØTRK	repeater@aksarbenarc.org
Club Call sign Trustee	Corby Krick	KØSKW	trustee@aksarbenarc.org
Member	Russ Hilton	ADØQH	repeater@aksarbenarc.org

## Other Contacts

ARRL Midwest Director	Rod Blocksome	KØDAS	k0das@arrl.org
ARRL Midwest Vice-Dir.	Art Zygielbaum	KØAIZ	k0aiz@arrl.org
EC Douglas County	Steve Schmitz	NØUP	dcares@aksarbenarc.org
EC Sarpy County	Dennis Mitchell	KCØYKN	
Vol. Council	Brian Zdan	KMØY	testing@aksarbenarc.org
NE Section Manager	Matt Anderson	KAØBOJ	ka0boj@arrl.org
VE Exams/ARRL Liaison	Ray Blackburn	NØREA	testing@aksarbenarc.org

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