



RF



VOL. LX NO. 10

P.O. BOX 3454, TUSTIN, CA 92781-3454

OCTOBER 2019

The Prez Sez.....

by Dan KI6X



Starting to wrap up the year already. Note that we are looking for Officer candidates for next year to be elected in November. I hope the articles about the Officer positions that I have been writing each month have been helpful and maybe encouraged you to think about a position or interested in helping the Board.

I am writing this after we spent the morning in a park, after our Board meeting, playing radio in the field for the CA QSO Party. It was a low key but a fun effort. Nice to see the few of you that attended, participated, and/or supported the effort.

The Board also delayed the Club Auction until **January**. This will give more time to get the word out and for participants to gather items for sale. More information and details will be in the "RF" the next couple issues. Our alternate loca-

tion was in the parking lot of the Red Cross while the Red Cross building is being refurbished and we decided it would be too limited. We will be back in the Red Cross building by January.

We are still having an October meeting but DELAYED to FRIDAY OCTOBER 25th. Check the last-minute info elsewhere and the email blast you will receive.

Will be another "Rodrigo's" meeting with always interesting speaker Wayne Yoshida, KH6WZ, since that room went so well last month. We had to delay the meeting date a week to get the room.

You can see the other Board activities in the Board Minutes included in this "RF". Note that we will be assigning an audit committee at the next Board meeting. Contact me, the Secretary, or Treasurer if you would like to be considered to help with that.

As said by many, this club is for all members and we try to have a variety of activities, speakers, and presentations. We are open to ideas and would appreciate meeting speaker ideas since we (well, mostly the VP) has to come up with about 10 a year.

Dan, KI6X, President



NEXT GENERAL MEETING

Friday, October 25, 2019

@ **Rodrigo's Restaurant in Tustin**

PRESENTER

Wayne Yoshida, KH6WZ

TOPIC

"An RF Transistor Factory Tour" Learn how those 50, 100 and 500 watt transistors in your final are manufactured.



In This Issue: Page

The Prez Sez	1
Club Information	2
Officer Position of the Month	3
OCARC Auction Flyer	4
Triple Play Award	5-6
Heathkit of the Month – A-1	7-13
General Meeting Minutes	14
Board of Director Minutes	15
California QSO Pictures	16
Ask the Elmers Flyer	17
RadioActivity	18
Rodrigo's Menu List	19
Ad for MiniTiouner-Express	20



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Monthly Events:

General Meeting

Time & location: Held third Friday of the month 7:00 PM at*

***Rodrigo's Restaurant**

14882 Holt Ave., Tustin, CA 92780
between Irvine Blvd & Newport Ave

Club Breakfast (Board Mtg): Held the First Saturday* of the month at 8am at:

***Marie Callender's**

307 E. Katella Ave
Orange, CA 92867
*unless otherwise advised

Club Nets (Listen for W6ZE):

10M: 28.375 ± MHz SSB
Wed- 7:30 PM - 8:30 PM
Bob AF6C, Net Control
Alt: Corey, KE6YHX, Net Control

2M: 146.55 MHz Simplex FM
Wed- 8:30 PM - 9:30 PM
Corey, KE6YHX, Net Control

80M 3.883 MHz LSB
Wed- 9:00(+/-) PM
Follows right after end of 2M Net
Corey, KE6YHX, Net Control

2019 DUES:	
OCARC Membership period is:	
1 January to 31 December	
Individual New or Renewal:	\$30
Family New or Renewal:	\$45
Teen New or Renewal:	\$15
New Member Dues are prorated quarterly and includes a badge:	
Additional Badges ¹	\$3
Use one of our our interactive on-line forms to calculate current prices, join, renew, or order badges:	
Dues and Badges Forms	
¹ \$3 or less + mailing. See form.	

*Click on link for Map/Directions



President

Note: This is a monthly Newsletter feature highlighting an officer position, their duties and where you can assist. This is the final installment. Hope the articles got some of you interested in the Officer structure of the club and you got to know the positions better. The current By-laws (and eventually proposed By-laws) are on the website www.w6ze.org, in the "Items of Interest" section, under "OCARC Bylaws" found near the bottom again.

Duties: The OCARC By-laws list the following as duties of the President,
It shall be the duty of the president to:

- Preside over all regular, Board, and special meetings of the club.
- Direct the affairs of the club subject to the advice of the Board and the requirements of the Bylaws.
- Appoint a Finance Committee of 2 or more members to audit the club account books. Appoint all other committees not provided for herein or elsewhere.
- Sign as required, all contracts or written instruments on behalf of the club.
- Represent the club for social or business contacts when required.
- With approval of the Board, have sent flowers or other appropriate gifts to ill or hospitalized members, or to the family of a deceased member.
- Perform incidental duties not herein specified.

Note: OCARC By-laws are being revised. The revised by-laws will be presented to the membership early next year. The President runs the Board and creates the agenda for the Board meetings as well as being the face of the club and presiding at the meetings.

Current Officer: Dan Violette, KI6X, ki6x@w6ze.org

Areas that club members may assist the Officer: Volunteers are needed for all areas of the club. The President can help you find a place to assist with with various club operations or tasks.



The poster features a large orange with a green leaf on the left. Inside the orange is a yellow circle with a black lightning bolt and the call sign 'W6ZE'. The words 'ORANGE COUNTY' are written in a green arc above the orange, and 'AMATEUR RADIO CLUB' is written in a green arc below it. To the right of the orange, the text 'OCARC ANNUAL AUCTION' is written in large, bold, white and red letters. Below this, the word 'REVISED' is written in large, bold, red letters. In the center, a white 3D figure of a person is shown holding a red auctioneer's mallet. The mallet has a yellow band with 'W6ZE' written on it. To the right of the figure, there is a collection of amateur radio equipment, including a handheld radio, a base station, and a control panel with various knobs and a meter. Below the equipment, the word 'DATE' is written in large, bold, red letters. At the bottom left, the text 'OCT. 2019 AUCTION CHANGED TO JAN. 2020' is written in white.

OCARC ANNUAL AUCTION

REVISED

DATE

OCT. 2019
AUCTION
CHANGED TO
JAN. 2020

January 17th, 2020

7:00PM at the American Red Cross

"George M. Chitty' Bldg."

600 Parkcenter Drive, Santa Ana, CA

**Mark your calendars and plan
on attending this exciting event!**

Image by W6ETC

Doug Wood, K6PGH Awarded Prestigious ARRL Triple Play Plaque

ARRL's Logbook Of The World main webpage has a listing of the most recent hams who have been awarded their coveted Triple Play Award. In late August, **our very own Doug K6PGH was at the top of that list**, and this was noticed by Tony N2VAJ and Tim N6GP. Congratulatory emails were fired off to Doug.

are no longer operating CW and SSB, and those sub-bands are often found empty.

The Triple Play award is now more important than ever, because it helps even out this lopsided situation between the modes.

Doug is very active on the air on many modes, and he nearly completed the award without actually trying. "I wasn't chasing WAS but when I saw I had 146 contacts towards Triple Play I zeroed in on what I needed.", he said. Doug also mentioned that he completed the award in about 8 months, and that only 1 QSO of the 150 was FT8 – the other digital ones were RTTY or PSK31.

The best way to work CW and SSB contacts for the Triple Play is to jump into domestic contests on the weekends. The North American QSO Party (NAQP) is ideal for this. There are CW and SSB NAQP contests every January and August on separate weekends.

For more experienced ops, there are the ARRL November Sweepstakes weekends. One weekend a month the Straight Key Century Club has their weekend sprint, and that generates a lot of activity on CW.

Latest Triple Play WAS Award Winners		
Operator	Serial #	Date
Anthony Wayne Deprato, WA4JQS	2,180	2019-09-26
Joel Dennis, KS3F	2,179	2019-09-26
John Mark Carlson, K0HD	2,178	2019-09-25
Ihor Mokhov, UY5AA	2,177	2019-09-23
Lynn Landin, WB0U	2,176	2019-09-19
Bill Williams, WD7E	2,175	2019-09-11
Douglas Wood, K6PGH	2,173	2019-08-12
Allan Thompson, KV4T	2,172	2019-08-05
Todd Remington, KH2TJ	2,171	2019-07-31
Thomas Lubbers, K8TL	2,170	2019-07-29

Figure 1: Recent Triple Play Awards on the LOTW Page

What is the Triple Play Award?

The Triple Play is a more challenging version of the ARRL Worked All States (WAS) Award. As the name implies, it is 3 times harder to get. The Triple Play requires working all 50 US States each on Phone, CW and Digital, for a total of 150 contacts. On top of that, all 150 QSOs must be confirmed via the ARRL Logbook Of The World (LOTW). No paper QSLs are allowed! Any bands can be used to work for the award.

The award began January 1, 2009, and only QSOs at that starting date on count. There was a mad rush of hams to try to be the first Triple Play recipient. In only 15 days, Dave Strout W2YC had his 150 QSOs worked and confirmed for Award #1.

Earning the Triple Play in 2019

With the advent of the FT8 digital mode in 2017, just about everything in ham radio has been affected, and the Triple Play Award is no exception. FT8 is a double-edged sword for Triple Play. On one hand it makes the Digital part of the award "easy peasy", while on the other hand, it makes the CW and SSB parts very difficult. This is due to the fact that FT8 has been so overwhelmingly popular that many people



Figure 2: Doug Wood, K6PGH

TRIPLE PLAY



Digital

*The American Radio Relay League
recognizes that*

K6PGH

CW

*has confirmed, via Logbook of the World, two-way
communication with stations in each of the fifty
states of the United States of America on each of the
three operating modes: CW, Phone and Digital.*

Phone

#2173

12-AUG-19

WAS
ARRL Worked All States

Ru Aslento, K5UR
President, ARRL

Heathkit of the Month #95:
by Bob Eckweiler, AF6C

Heathkit

STEREO HI-FI EQUIPMENT

Heathkit A-1

High Fidelity Monaural Amplifier kit

Introduction:

It's been awhile since a Heathkit hi-fi or stereo product was covered. The A-1 seems a good choice as a historic product that started the lucrative Heathkit audio kit business.

Heathkit announced the A-1 amplifier (**Figure 1**) in their November 1947 flyer shown in **Figure 2**. In *Radio News* magazine it first appeared in a January 1948 ad. The A-1 was Heath's third or fourth kit offered, appearing after the O-1 and V-1, and possibly the T-1 which appeared in the same flyer. Like earlier kits it was not given a model designation in the ads. However, the A-1, T-1 and V-1 did carry their model number on the front panel. Not so for the earlier O-1¹.

The A-1 sold for \$14.95 and remained in production until the A-2 was announced in the August 1948 Heathkit flyer.

The Heathkit A-1:

The A-1 is a four-tube amplifier (one tube is dual section) designed for a crystal phonograph pickup or a radio tuner. Its first *Radio News* ad describes it as "...a push-pull 25 watt amplifier" with "excellent fidelity".

Other features mentioned are:

1. RCA power transformer.
2. Oil filled condensers.

Here is a link to the index of Heathkit of the Month (HotM) articles:

http://www.w6ze.org/Heathkit/Heathkit_Index.html



Figure 1: Heathkit A-1 High Fidelity Amplifier.
 Photo courtesy of Keith Greenhalgh.

3. Tone control.
4. Phase inverter circuit.
5. Quality output transformer.
6. 3 Ω , 8 Ω and 15 Ω speaker outputs.

As with almost all Heathkits, all tubes, parts and instructions are included, including a "formed and punched chassis". The tube lineup is shown in **Table I**.

After the first ad, the 25-watt rating was rarely mentioned again. It did appear occasionally in ads in various magazines. Data sheets for two 1619 vacuum tubes in push-pull shows a typical max. output of 17½ watts, so Heath's numbers seem inflated a bit. The amplifier kit shipped at 20 lbs.

When the A-1 was introduced the flyer ad stated: "A fortunate purchase of best quality Thordarson output transformers has enabled us to supply a high fidelity ... 25 watt amplifier at the amazing price of \$14.95". An interesting detail is that the parts layout shown in **Figure 2**. and other early ads are different

Heathkit A-1 Amplifier Tube Lineup

5Y3GT	Dual Diode	Full Wave CT Rectifier
½ 6SN7	Triode	Preamplifier
½ 6SN7	Triode	Phase Splitter
1619	Pentode	½ Push-Pull Amplifier
1619	Pentode	½ Push-Pull Amplifier

Table I

from the production A-1s. Later ads show the correct production layout (**Figure. 3**). The early drawing is probably that of the prototype which often happened in early Heath ads.

The Questionable A-1 Schematic:

While researching Heathkit flyers and magazine ads for history of the A-1 an interesting discovery was made. After no ads for the A-1 appeared in two sequential flyers, the next flyer (August 1948) introduced the A-2: an “*Improved Heathkit Push-Pull High-Fidelity Amplifier Kit*”. Also in the flyer, in the *Tips and Comments* section, the following announcement appeared: “*Heathkit Amplifier Owners—If you wish the new improved amplifier circuit, we will be happy to send it. Please enclose stamped self-addressed envelope*”. Since the date on the only A-1 schematic that can be found on the Internet is dated August, 13, 1948, this schematic is very likely the “*new improved amplifier circuit*” that Heathkit

sent out. Another clue is that the schematic shows a 6SL7 high mu dual triode instead of the A-1’s low mu 6SN7. All the A-1 ads only mention using a 6SN7. Also the 6SL7 has a better than three-fold higher amplification factor, and the A-2 ad also states “...*the gain has been tripled*”.

If anyone has an older A-1 schematic, or original parts list please contact the author ³. The schematic should show a 6SN7 tube in the circuit.

Heathkit A-1 Controls and Connections:

The A-1 has only two controls; both located on the front chassis panel. The controls (L to R) are **TONE** and **VOLUME**. Three connections are on the back chassis panel (L to R when facing the rear). They are a 1/4” phone jack for the input signal, an octal socket for speaker connections (see **Table II** for pinouts), and the AC line cord. There are no internal amplifier adjustments.

Surplus Parts:

Early on Heathkit was able to sell their kits at low prices because they purchased tons of WWII war surplus electronic. The transformers, chokes, tubes and bathtub and oil-filled capacitors used in the A-1 all came from surplus purchases as electronic components flooded the market after the war ended.



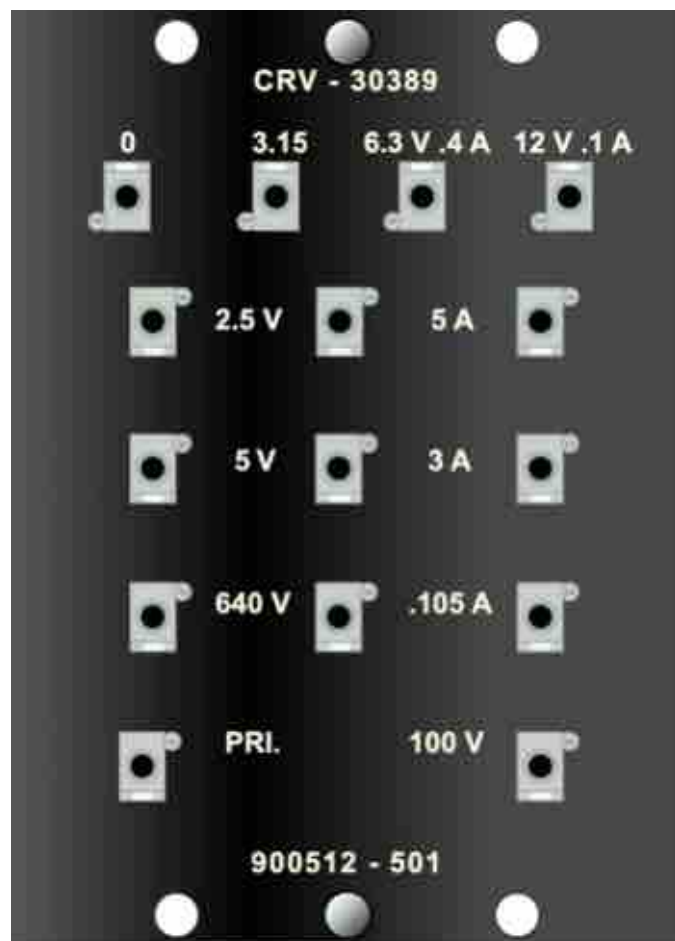
Figure 2: Introductory A-1 ad from November, 1947 Heathkit flyer showing prototype layout.

Speaker Output (Octal Socket)

PIN 1:	COM	PIN 5:	unused
PIN 2:	3 Ω ³	PIN 6:	unused
PIN 3:	8 Ω	PIN 7:	unused
PIN 4:	15 Ω	PIN 8:	unused

Table II**Heathkit A-1 Design:**

Among the transformers purchased were a large quantity of RCA power transformers. Heath offered them individually for 98¢ each in an ad in the Nov. 1947 issue of *Radio News* (**Figure 5**). Having a 100 volt primary probably limited sales, but Heath decided this transformer would work in a hi-fi audio amplifier, and proceeded to use it as the basis of the A-1. **Figure 4** shows the terminals for the power transformer. The 5 V winding supplies the rectifier tube filament, but the 6.3 V winding is too small to provide power to more than one tube; the 6SN7 heaters draw 0.6 A, already above the specified current. Heath searched for a useful output tube that has a 2.5 volt heater; because the 2.5 V winding is center-tapped, a tube with a filament, instead of separate heater and cathode, could be used. The surplus 1619 pentode was in large supply and fit well. Heath described the 1619 as a military type 6L6, though they had more differences than just filament voltage. The 100 volt transformer

Figure 3: A-1 ad from February 1948 flyer.**Figure 4:** Detail of terminals on bottom of RCA power transformer. Drawn from photo by Keith Greenhalgh.

primary issue was resolved with a 25 Ω 25 watt series dropping resistor, adding some additional heat and power consumption.

Heath obtained a batch of surplus Thordarson output transformers that have a good match to a pair of 1619 tubes in push-pull. They have a tapped secondary for 3.2, 8 and 15 Ω speaker loads. Evidently the supply of this transformer was somewhat limited.

The circuit is rather basic; the first section of a dual triode 6SN7 is a simple class-A amplifier with a gain of less than 20. No specification for input signal level is given other than requiring a phonograph with a crystal pickup or a tuner (on the order of 1 Vrms as a guess). The second half of the 6SN7 is a

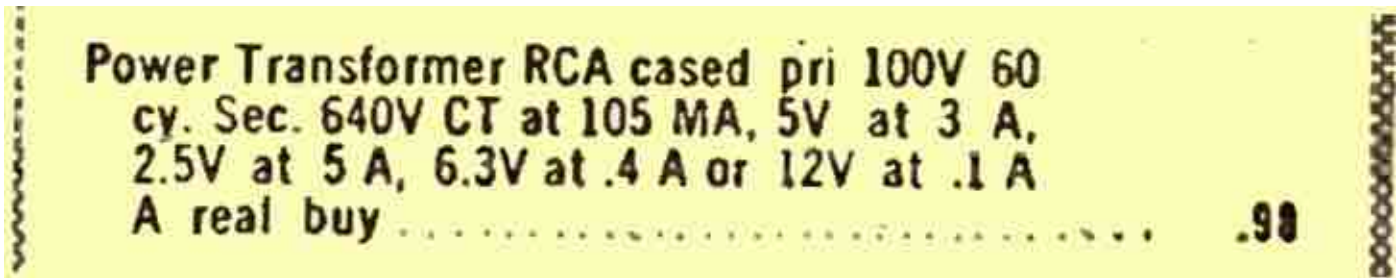


Figure 5: A Heath Ad from the November 1947 issue of *Radio News* listing the power transformer used in the A-1.

phase splitter. The signals are obtained from the voltage drop across equal resistors in the cathode and plate circuits. Ideally these signals are identical but 180° out of phase. The out-of-phase signals each drive one of the 1619 output tubes in class AB₁.

Sometime during the production run of the A-1 the supply of Thordarson output transformers ran out. Heath was able to find a substitute made by Chicago Transformers. The replacement transformer has only 3.2Ω and 8Ω speaker outputs; the 15 Ω output is missing. The change first showed up in the February 1948 flyer (Figure 3). The change is not mentioned in the ad, other than where the 15 Ω should have been specified there is a gap.

Evidently Heath got a good price on a large quantity of the replacement output transformers because the kit price stayed at \$14.95 with the change, and that price continued through the production of the A-2 and A-3.

Heathkit A-1 Notes:

If you're curious about the extent of Heathkit's surplus purchases, you need only look at their January 1948 *Radio News* ad, shown in **Figure 6**. It mentions preparing a catalog listing for over 100,000 transformers and chokes that they had available for sale.

The RCA power transformer used in the A-1 continued to be used in the A-2 and A-3. In their January 1949 flyer, Heath commented

that they were down to a 60 day supply, and when the transformers were gone the price will rise. The A-3 remained for sale through 1949 and much of 1950, so either Heathkit found some more, a way to cut prices or their estimating was off?

The dual 8 μfd 475 volt oil-filled capacitor (located just to the right of the RCA power transformer which occupies the left rear corner of the chassis), another high quality surplus item from WWII, continued to be used in the A-2 but was replaced in the A-3.

The Heathkit Schematic:

As of this writing no copy of the early A-1 schematic or parts list has surfaced. Attached as **Figure 8** is what is believed to be the schematic available to A-1 owners to update their amplifiers to the A-2 circuit. Heath did not put component values on their early schematics, instead they used the part number Heathkit assigned to the component. **Table III** correlates the schematic part numbers to the actual component values.

Old Heathkit Part Numbers:

Early on Heathkit used a convoluted part numbering scheme. The old part numbers consist of one or two letters followed by a two



Figure 6: Heathkit's Large surplus transformer buy!

or three digit number. The letter(s) represented the category of the first kit the part was used in, and the number, which started at 10^4 , was just a sequential number. For instance O12 (a 100 K Ω ½ watt resistor) is the third component used in the O-series oscilloscopes, and A10 is the first component used in the A-series audio amplifiers. Note that A-10 is specified as 47 K Ω to 51 K Ω meaning Heath would supply whichever component it had on hand. Either component would work properly in the circuit. **Table IV** lists some of the letter prefixes and the kit group they belong to. Some prefixes cannot be traced back to a specific series; perhaps they are products that never left the drawing board?

This numbering system quickly got out of hand, and in the very early 50's Heathkit came up with a later part numbering system which is a number followed by a dash followed by another number. The first number designates the part category and the second number (occasionally followed by a letter or series of letters and numbers) designates the specific part in that category. An example is:

100 K Ω ½W: Old #: O-12 New #: 1-26

Later, Heathkit computerized their part numbering, resulting in some minor changes.

Conclusion:

There is a lot of history in the early kits. Heath was just starting a business that put them at the top of the electronic kit business which they dominated for around 45 years.

In the next article a basic oscilloscope kit will be discussed. A 1960s beginner's scope that was in production for ten years, and has a lot of history behind it. At least one member of the OCARC club has fond memories of it, as does a well-known author of Heathkit product books.

A-1 Schematic Parts List

A10	Resistor 47,000 - 51,000 Ω
A11	Resistor 270 K Ω
A12	Resistor 220 Ω 2 watt
A16	Choke 6H 80 ma
A17	Output Transformer
A18	Vacuum Tube 1619
A21	Shielded wire
A27	Resistor 25 Ω 25 watt
A28	Capacitor 0.5 μ f 250V
G42	Vacuum Tube 6SL7
K10	Resistor 2700 Ω
K14	Capacitor Electrolytic 25 μ f 25V
K17	Phone Jack 1/4"
O11	Resistor 10 K Ω
O12	Resistor 100 K Ω
O17	Resistor 1 M Ω
O24	Capacitor 0.01 μ f 1000V
O58	Potentiometer 100 K Ω
O62	Capacitor 0.25 μ f bathtub
O66	Vacuum Tube 5Y3
O78	Line Cord
T13	Capacitor 0.01 Paper
T15	Capacitor Electrolytic Dual 8 μ f 475V
T16	Potentiometer 1 M Ω

(Refer to Figure 8)

Table III

Heath's Old Part Number Prefix List (Partial List)

A	A-series Amplifiers
BE	BE-series Battery Eliminators
C	C series Condenser Checkers
FM	FM-series Tuners
G	G-series Signal Generators
IB	IB-series Impedances Bridges
K	K-series All-Wave Receivers
O	O-series Oscilloscopes
S	S-series Electronic Scope Switches
SG	SG-series RF Signal Generators
T	T-series Signal tracers
TC	TC-series Tube Testers
TS	TS series TV Alignment Generators
V	V-series VTVMs

Table IV



Figure 7: ↓ Before and ↑ After Restoration ⁵



Acknowledgements:

I have to thank Keith Greenhalgh for making this article possible. He actually owns an A-1, and it is the only one out in the wild known to Chuck Penson - WA7ZZE and me; others must exist ⁶. Keith got this amplifier in a used, incomplete and decrepit condition, lacking documentation and even a schematic.

Figure 1 shows the restored amplifier after Keith performed his magic. Keith sent me many detailed photos of the amplifier before, during and after restoration.

Chuck also helped make this article possible. My research started with his recent book "*Heathkit Hi-Fi and Stereo Products*" ⁷ which offered some important information on the A-1. The photo in the book led me back to Keith Greenhalgh. Chuck provided a schematic marked A-1. Though it turns out likely to be a late schematic Heath offered to allow A-1 owner to update to the A-2, it is still the best schematic yet found.

73, from AF6C



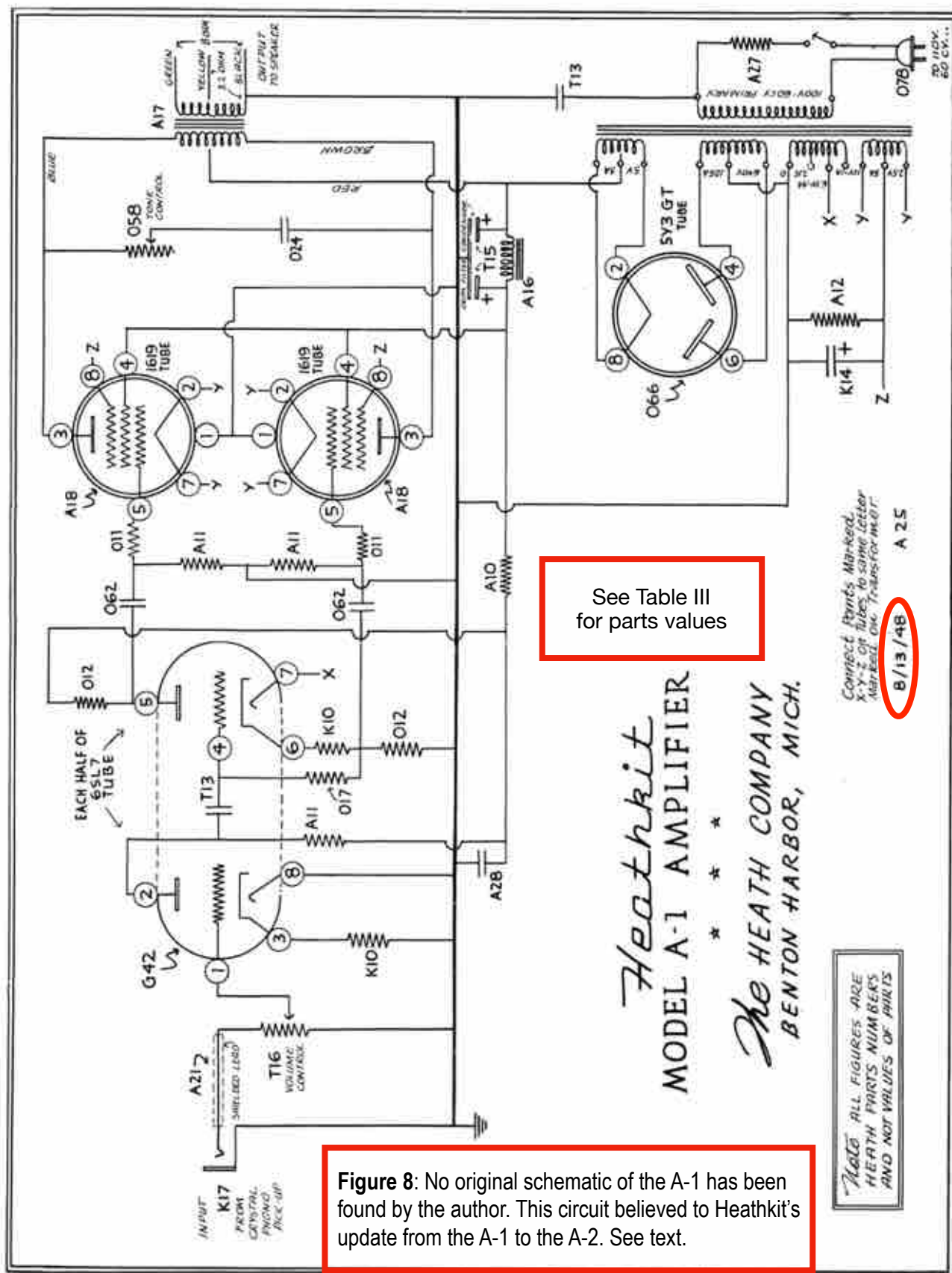
Notes:

1. Heath Co.'s first electronic kit, the O-1 Oscilloscope.
2. Actually spec'ed at 3.2 Ω .
3. af6c@w6ze.org
4. Some documentation part numbers used numbers between 1 and 9.
5. Photos and restoration by Keith Greenhalgh.
6. A photo of a different A-1 was recently removed from Flickr. Its source and owner is unknown.
7. **Heathkit Hi-Fi and Stereo Products** 2018 by Chuck Penson WA7ZZE - ISBN 978-0-692-09843-1. Available from Amazon.

This article is Copyright 2019 R. Eckweiler, AF6C and The OCARC Inc.

Remember, if you are getting rid of any Heathkit material, please pass it along to me for my research.

Thanks - AF6C



OCARC General Meeting Minutes 2019-09-18

The OCARC General meeting was held on Friday 2019-09-20 at Rodrigo's restaurant in Tustin. A new venue was chosen for the September General Meeting because the Red Cross Building is being remodeled.

In attendance were 28 members and visitors. All the OCARC directors were present except Nicholas AF6CF to provide a Board quorum.

Program:

The speaker at the September Gen Meeting was Arnie N6HC with a slide show on the **2018 VP6D DXpedition to Ducie Island**.

- Two tons of equipment were used.
- 14 hams participated in the VP6D effort.
- 8-stations-in-a-box were shipped on the boat.
- Lagoon on the island had sharks prowling.
- Planned to operate 12.5 days, but, incoming weather shortened the effort to 10 days.
- VP6D effort produced **112,042** QSO's.



Arnie N6HC in one of the eight stations



Group photo of the 14 members of the VP6D DXpedition in 2018.

Business:

Next Board Meeting – Dan KI6X announced that the next club Board Meeting would be held at Mountain View Park in Fullerton located on Northwest corner of E. Bastanchury Road and State College Blvd (Near the Summit House restaurant).

Elmer questions – Discussions were presented about “stick on” rubber feet that turn into “sticky bubble gum”!! Bob AF6C explained that the solution is to use naphtha (lighter fluid) to dissolve the mess.

Work-All-States with FT8 –Doug K6PGH reported that he has just completed enough QSO's for earning the WAS using the FT8 digital mode.

Bob Evans to move out-of-state – Corey KE6YHX reported that long time club member Bob Evans WB6IXN (who moved to OC in 1963) is planning to soon move out-of-state to Oregon. Bob's brother Lee Evans recently died. Bob will be moving closer to relatives. Bob will NOT be taking most of his HF radio equipment and will donate his equipment to OCARC.

Submitted by: Ken, W6HHC OCARC Secretary



The OCARC Board meeting was held on Saturday Oct 5, 2019 at the 8:30 AM, at Mountain View Park in Fullerton. The park is located on Northwest corner of Bastanchury Road and State College Blvd (near the Summit House restaurant). In attendance were 11 members. All of the directors, except Greg W6ATB, were present for a Board quorum.

Director Reports:

- **Membership** – Corey KE6YHX reported the club membership currently has 97 members.

Old Business:

• Newspaper Editors

Oct – Tim N6TMT
 Nov – Dan KI6X
 Dec – Greg W6ATB
 Jan – ???

• OCARC Radio Auction Rescheduled

Due to problems finding a venue for the OCARC Radio Auction while the Red Cross building is being remodeled, the OCTOBER AUCTION has been **RESCHEDULED** for January 17th 2020.

General Meeting Programs

Oct – The OCARC Radio Auction has been re-scheduled for January. The October General meeting will be presented by Wayne KH6WZ on **"An RF Transistor Factory Tour"**.

NOTE - The meeting location has been moved to Rodrigo's restaurant in Tustin - due to remodeling of normal Red Cross meeting location. **ALSO – the meeting will be held on October 25, one week later than normal.**

Nov – Program will be on Bioenno Battery Technology and also OCARC 2020 Officer Elections. (Meeting will likely be back in Red Cross because of reopening late October.)

Dec 06 – The OCARC Club Dinner will be held on Friday evening, Dec 6, at Mimi's Café in Tustin. No OCARC General Meeting will be conducted in December.

Jan – The OCARC Radio Auction has been re-scheduled from October to January.

• By-Laws Update Committee

Tim N6GP explained that a clean and updated revised set of by-laws would be sent out to the board for review. The current plan is to hold a first reading of the updated Bylaws for the club membership at the February 2020 general meeting.

• 2020 Nomination Committee

The OCARC election of 2020 officers will be held at the November General Meeting. Tim N6TMT volunteered to serve as the Nomination Committee chair.

New Business:

• Budget for OCARC December Dinner

The Board approved a motion for the following budget for the OCARC December Dinner:

○ Grand Prize	\$100	HRO
Gift Card		
○ Radio Door Prizes	\$500	
○ Candy/Flowers	\$100	
Total	\$700	

Good of the Club:

• Equipment Donated by WB6IXN

Bob Evans WB6IXN has donated a significant amount of station equipment to the OCARC. Corey KE6YHX presented a list of all the donated equipment, including a Yaesu FT-757GX transceiver with P/S and antenna tuner. The board approved a motion to allow Vijay KM6IZO to use the FT-757 HF transceiver station and to store the rest of the donated equipment until the club auction in January

• CA QSO Party Field Operation

Board members set-up two antennas and operated the CA QSO Party from a park bench in Mountain View Park after the board meeting was completed.

Submitted by Ken W6HHC, OCARC Secretary

California QSO Party at Mountain View Park Fullerton CA October 5th 2019

Ron -W6WG working them in CA QSO Party

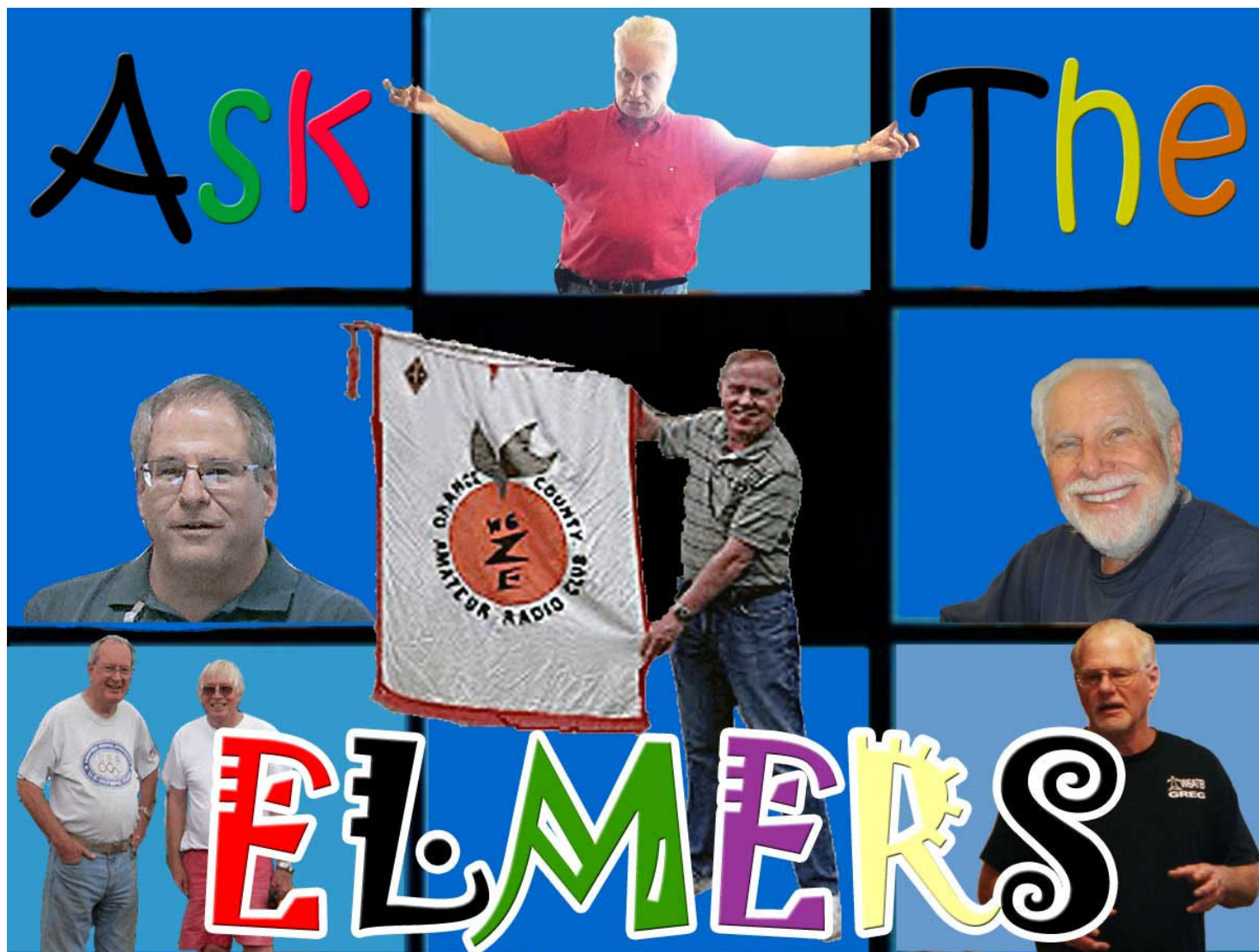
Setting it up right!



Just a little higher!

Teamwork in action!





BRING YOUR BEST AMATEUR
RADIO QUESTIONS
TO THE NEXT

OCARC
MEMBERSHIP
MEETING!
WATCH FOR
FUTURE

ANNOUNCEMENTS
REGARDING ITS LOCATION!



W6ETC



U P C O M I N G A C T I V I T I E S

October

- ***10-10 Int. 10-10 Day Sprint:** 0001 UTC to 2359 UTC Thursday Oct. 10.
- **Oceania DX Contest, CW:** 1800 UTC Saturday Oct. 12 to 1800 UTC Sunday Oct. 13.
- ***CQ World Wide DX SSB Contest:** 0000 UTC Saturday Oct. 26 to 2400 UTC Sunday Oct. 27.
- **ARRL International EME Contest:** 0000 UTC Oct. 19 to 2359 UTC Sunday Oct. 20

November

- **ARRL Sweepstakes Contest, CW:** 2100 UTC Saturday Nov. 2 to 0259 UTC Monday Nov. 4.
- **10-10 Int. Fall Contest, Digital:** 0001 UTC Saturday Nov. 9 to 2359 UTC Sunday Nov. 10.
- **ARRL Sweepstakes Contest, SSB:** 2100 UTC Saturday Nov. 16 to 0259 UTC Monday Nov. 18.

* Indicates club entries are accepted

** Indicates team entries are accepted

Note: When submitting logs for ARRL Contests indicate your club affiliation as "Orange County ARC"

State QSO Parties:

- **Nevada QSO Party:** 0300 UTC Saturday October 12 through to 2100 UTC Sunday Oct. 13.
- **Arizona QSO Party:** 1600 UTC Saturday October 12 to 0600 UTC Sunday Oct. 13 and 1300 UTC to 2359 UTC Sunday Oct. 13.

State QSO Parties continued:

- **Pennsylvania QSO Party:** 1600 UTC Oct. 12 to 0500 UTC Sunday Oct. 13 and 1300 UTC to 2200 Sunday Oct. 13.
- **South Dakota QSO Party:** 1800 UTC Saturday Oct. 13 through 1800 UTC Sunday Oct. 14.
- **New York QSO Party:** 1400 UTC Saturday Oct. 19 through 0200 UTC Sunday Oct. 20.
- **Illinois QSO Party:** 1700 UTC Sunday Oct. 20 through 0100 UTC Monday Oct. 21.

Repeating Activities:

- **Phone Fray:** Every Tuesday night at 0230 UTC to 0300 UTC.
- **CWops Mini-CWT:** Every Wednesday at 1300 to 1400 UTC, 1900-2000 UTC and Thursday 0300-0400 UTC
- **SKCC:** Weekend Sprintathon (Straight Key CW) on the first weekend of the month after the 6TH of the month.
1200 Sat. to 2359Z Sunday.
- **SKCC:** Sprint (Straight Key CW) 0000Z to 0200Z on the 4th Tuesday night (USA) of the month.

Send an email to Ron W6WG, w6wg@w6ze.org to have your favorite activity or recent RadioActivity included in the next month's column.

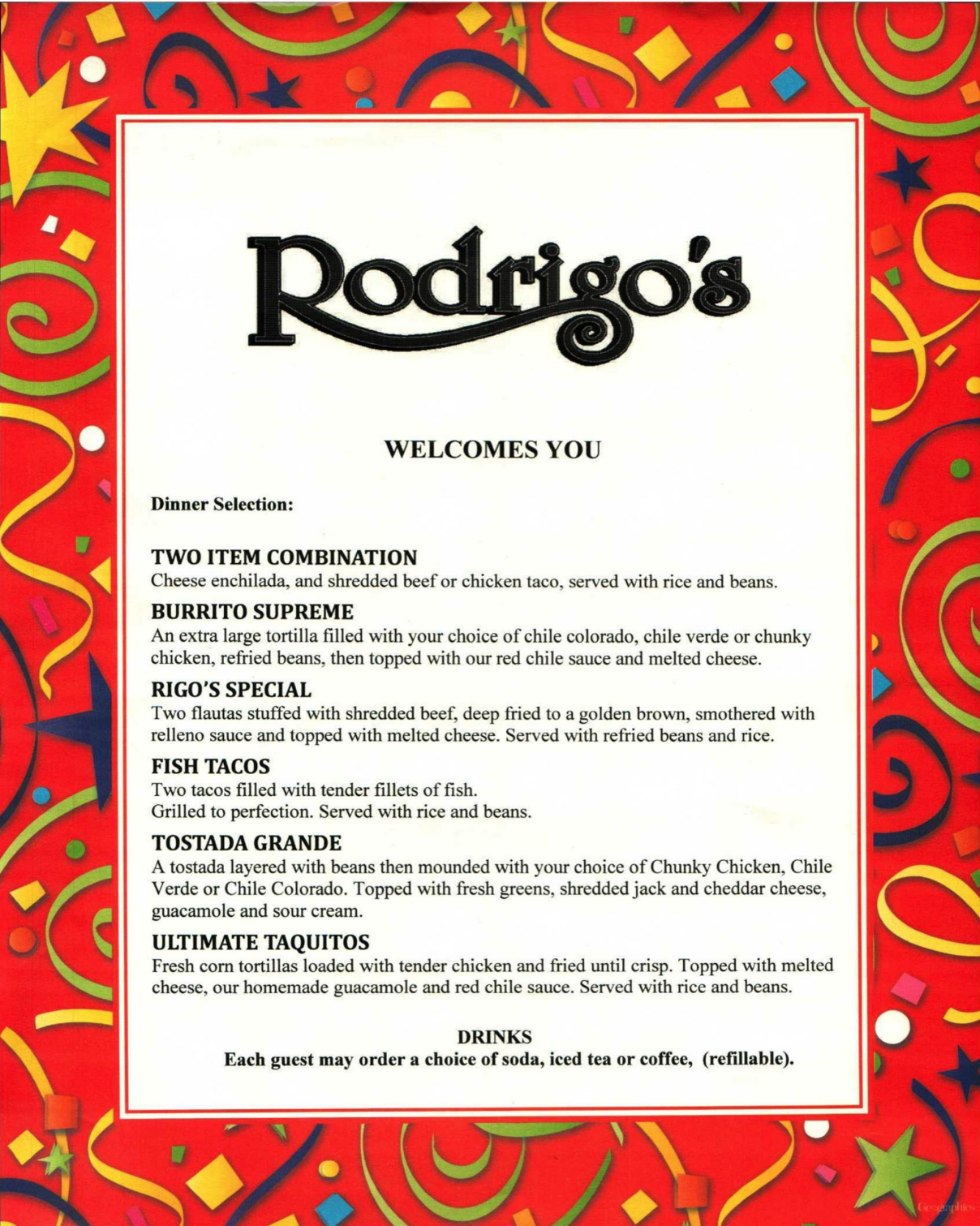
73, Ron W6WG

This month's membership meeting again has been moved from the American Red Cross to

Rodrigo's Mexican Grill

14882 Hold Ave., Tustin, CA

Please review the MENU LIST below that includes a dinner selection + drinks for \$23.00 per person.



Rodrigo's

WELCOMES YOU

Dinner Selection:

TWO ITEM COMBINATION
Cheese enchilada, and shredded beef or chicken taco, served with rice and beans.

BURRITO SUPREME
An extra large tortilla filled with your choice of chile colorado, chile verde or chunky chicken, refried beans, then topped with our red chile sauce and melted cheese.

RIGO'S SPECIAL
Two flautas stuffed with shredded beef, deep fried to a golden brown, smothered with relleno sauce and topped with melted cheese. Served with refried beans and rice.

FISH TACOS
Two tacos filled with tender fillets of fish.
Grilled to perfection. Served with rice and beans.

TOSTADA GRANDE
A tostada layered with beans then mounded with your choice of Chunky Chicken, Chile Verde or Chile Colorado. Topped with fresh greens, shredded jack and cheddar cheese, guacamole and sour cream.

ULTIMATE TAQUITOS
Fresh corn tortillas loaded with tender chicken and fried until crisp. Topped with melted cheese, our homemade guacamole and red chile sauce. Served with rice and beans.

DRINKS
Each guest may order a choice of soda, iced tea or coffee, (refillable).

[Click on image above for Map or Directions to this event!](#)

MiniTiouner-Express

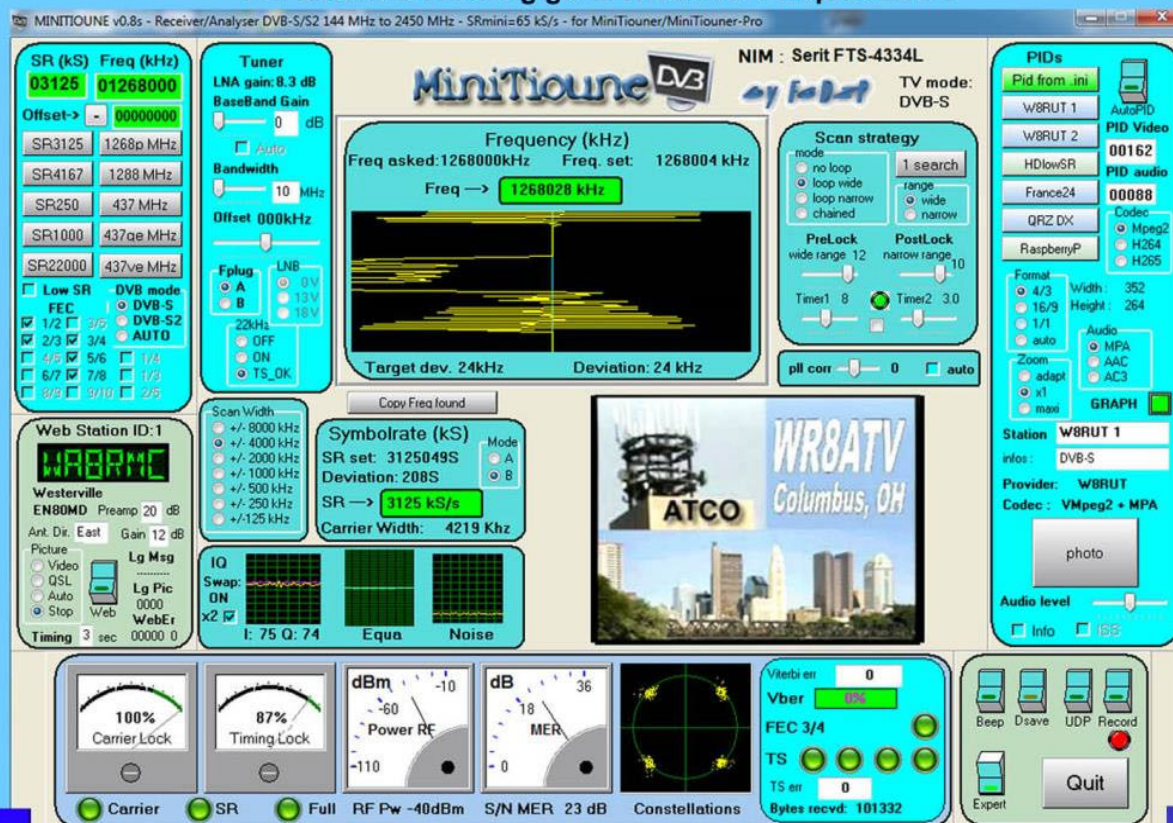
Digital Amateur Television DVB-S/S2 Receiver / Analyzer



Available at DATV-Express.com

- Operates with Windows PC using free MiniTioune software from Jean-Pierre F6DZP
- Smaller than a stack of 2 decks of cards (picture above is full size)
- Two independent simultaneous RF inputs with internal preamps
- High sensitivity -100dBm @1288MHz – at 1/2 FEC
- Fully assembled/tested in aluminum enclosure
- Covers 144-2420MHz (ideal for Space Station DATV reception)
- Symbol rates from 75 KSymb/s to >20 MSymbols/sec
- Uses external 8-24VDC supply or +5V from USB-3 port (with small modification)
- Real time signal modulation constellation & dBm signal strength display
- Price: US \$75 + shipping – order with PayPal

For details & ordering go to www.DATV-Express.com



(MiniTioune display above is the ATCO 1268MHz DVB-S repeater signal at WA8RMC QTH 15 miles away).