



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LXVII NO. 7

PO Box 3454, Tustin, CA 92781

July 2026

The Prez Sez... By Dan KI6X



Again, what a Field Day we had! It was great fun, a lot of work, but exciting. If you missed it, we had the HB Fire Department visit Friday (smoke alarm went off at the school – not us), raised one of the towers and then the 40M came loose and dropped (back down, back up again with the tower), few “fires” (issues) to put out as the event officially started Saturday morning, got everything down nicely Sunday, had a safe weekend, and lost some easy bonus points for not meeting the rules for them, but got some other bonus points we did not expect. Wow! We did get the HB NEWS to stop by with 30 minutes to go and a nice article was written. I would link to it but these local stories are only good for a week on their website (we learned this a couple years ago). If we get permission, we will reprint in this newsletter.

We were short operators this year but had some new ones step in and learn, as well as a better than normal turnout at the GOTA station (Get on the Air). You will see more about our FD numbers but we were close to our point score from last year. I hope that if you missed this year that you consider stopping by another time and see all that goes on. If you helped, in any way at all, I thank you very much. It does “take a village.”

I am putting an extra Field Day picture in my “Prez Sez.” I got an alternate CW station all set-up (along with the main 20M phone station I was responsible for) in my garage, a TS-590, computer, monitor, all together with connections needed for “wireless.” Transmitted into a dummy load and verified software working with everything. The band captains should make sure their radios work BEFORE FD!

Please read through this *RF* since there is a lot of information. We try to keep you updated in the *RF* so we do not have to send too many emails. We then can limit emails to “breaking news.”

Dan Violette, KI6X
President

NEXT GENERAL MEETING

**Orv Beach
W6BI**

**Presents
“MESH Networking”**

**July 17th, 2026, at 7pm
at the**

**American Red
Cross**

**Orange County Chapter
Santa Ana, Room 120**

NEXT BOARD MEETING

Saturday, August 1st, 2026

See www.w6ze.org for more info

In This Issue

The Prez Sez	1
Club Information	2
Heathkit Article	3-8
Puzzler News	9
OCARC General Meeting Minutes	9-10
OCARC Board Meeting Minutes	11-12
Treasurer's report	13
The VE Corner	14
Field Day in the HB News	15-19



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Monthly Events

Membership Meetings*

Time: 7:00 PM
When: 3rd Friday of each Month
Red Cross Orange County, Room 208
600 N Parkcenter Dr, Santa Ana
(Replaced by the Christmas Party in December.)

Board Meetings

First Saturday of each Month
Board will handle Club business now IN-PERSON.

Club Nets (Listen for W6ZE)

10M ~ 28.375 MHz SSB

Wed- 7:30 PM - 8:30 PM
Net Control: Corey, KE6YHX
Alternate Net Control: AJ, KN6WNO

2M ~ 146.55 MHz Simplex FM

Wed- 8:30 PM - 9:00 PM
Net Control: Corey, KE6YHX
Alternate Net Control: AJ, KN6WNO

75M ~ 3.883 MHz LSB

Tue @ 8:00 PM
Net Control: Corey, KE6YHX

Other Nets

**Catalina Amateur
Repeater Association (CARA)**
147.090 MHz (+0.600 MHz) No PL
Monday - Friday
9:00AM & 9:00PM
Prg. Director. Tom W6ETC
COME JOIN US

OCARC 2026 DUES:

*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 Badges¹ \$3*

Use one of our interactive online forms
to calculate current prices, join, renew, or
order badges:

<https://www.w6ze.org/FormsShortcut.html>

¹ \$3 or less + mailing. See form.

Heathkit of the Month #133:
by Bob Eckweiler, AF6C



AMATEUR RADIO - SWL

Heathkit HRA-10-1
100 KC Crystal Calibrator

Introduction:

Before synthesized tuning and digital frequency displays, amateur radio operators had to rely on an analog dial to readout his or her frequency on the receiver. Frequency readout could be tricky and took some practice. This is one reason the FCC, when they announced the Novice class license back in 1951, required transmitters used by novices to be crystal controlled.

If the crystal, or its desired harmonic, was within the novice band, then the novice would be on a known legal frequency. Transmitters, in those days, often had a spotting function that would only let the oscillator and multiplier stages operate, outputting milliwatts of power. The operator could then zero beat the receiver to the transmitter frequency. And since the crystal frequency was known, the receiver band-spread could be set to that frequency. On a ham-band only receiver, like the HR-10(B), that is accomplished with the CAL. RESET control; on some receivers, like the SB-301 or Drake 2B, you could adjust the scale or hairline indicator to the known frequency. On general



Figure 1: The Heathkit HRA-10-1 Crystal calibrator that may be plugged into the HR-10(B) receiver or one of the Single-Bander transceivers.

coverage receivers the band-spread dial was set to the known frequency, and then zero beat was accomplished with the main tuning dial.

Once the novice graduated to a general or higher class license, and switched to a VFO for the transmitting frequency, another standard was needed to check the frequency. The most common was using a crystal controlled marker oscillator. This oscillator is designed to emit strong harmonics. A 100 kc¹ marker oscillator can produce strong harmonics every 100 kc across the HF range.

While 100 kc is the most common marker frequency, other frequencies are sometimes used such as 500 kc² and 1 mc. These will more likely be found on general coverage receivers. With the development of RTL and TTL logic IC's in the late 1960s multiple marker frequen-

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

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

1. Notes begin on page 8.

cies such as 1 mc, 500 kc, 100, kc, 50 kc and 25 kc could be selected from a single 1 or 4 mc crystal³. Such a calibration unit could be purchased, or be home-brewed from articles in many ham magazines.

The HRA-10-1 100 KC Crystal Calibrator:

When Heathkit released HR-10 Basic Amateur Band Receiver it also offered the new HRA-10-1 calibrator as an accessory (**Figure 1**). This accessory plugs into an octal socket on the HR-10 series chassis, though it could easily be used with other receivers by making some simple receiver modifications. The HRA-10-1 gets its filament and B+ power from the host receiver, and supplies a harmonic rich 100 kc signal to the receiver antenna terminals through the octal socket. It is surprising how many HR-10(B) receivers on today's market do not have the HRA-10-1 installed. Either it wasn't a popular accessory or

people held on to the calibrator when disposing of their receiver.

When Heathkit released the Single-Bander series of SSB transceivers in 1963, they provided an octal socket that would accept the HRA-10-1 crystal calibrator. Unfortunately, when the HRA-10-1 was originally designed no one had the foresight to design it so it could easily be used with equipment designed for 12V mobile operation. Thus one has to be careful when using it with the HW-12/22/32(A) Single-Banders. More about this in a later section.

Earlier, in 1960, Heathkit had released a stand-alone 100 kc crystal calibrator, the HD-20 (HotM #99). It sold for fifteen years until mid-1975 for, \$14.95. This crystal calibrator is transistorized and uses an "unobtainium" NEDA 1600D 9-volt battery. Luckily, it is a simple modification to switch to today's standard NEDA 1604 9-volt battery.

HRA-10-1 100 KC Xtal Calibrator Specifications

Frequency Coverage100 kc to at least 30 mc, in harmonics of 100 kc.

Crystal –

Type:.....Quartz, fundamental Frequency

Heath Part #:.....404 - 43

Frequency:.....100 kc $\pm$ 0.005%

Holder:.....HC6/U (tall)

Pin Spacing:0.486"

Pin Diameter:.....0.050"

Vacuum Tube.....6BA6 pentode

Power Requirements –

B+ Voltage:.....150 volts, 1.7 milliamperes (mA)

Filament Voltage:6.3 volts, 0.3 amperes

Dimensions:2-1/8" x 2-1/8" x 3-1/8" from chassis

Net weight:.....5 oz.

TABLE I

The HRA-10-1 Specifications:

Table 1 lists the specifications given in the specification sheet. Note that the 100 kc crystal (part # 404-43)⁴ has a tolerance of 0.005%. That means that if the crystal is in a circuit offering the proper parallel capacitance, the 300th harmonic of the crystal will be within 1.5 kc of 30 mc. By slightly adjusting the load capacitance across the crystal the frequency can be changed slightly and brought closer than the 0.005% specified accuracy. This is done by zero beating the HRA-10-1 with a known standard. The practical way is to use WWV on one of its transmitted frequencies of (2.5 mc, 5.0, mc 10.0 mc, 15 mc, 20 mc and 25 mc⁵.) The HRA-10-1 has a trimmer capacitor specifically for making minor corrections to the crystal frequency. Unfortunately, the HR-10(B) does not receive any of the WWV frequencies, so an external receiver must be used⁶.

The HRA-10-1 Circuit:

While the stand-alone HD-20 100 kc crystal calibrator is transistorized, the HRA-10-1 uses a single vacuum tube since the needed voltages are readily available in the host receiver. The current draw for the filament is 300 mA at 6.3 VAC. It is less than 2 mA for the 150V B+.

Figure 2 shows the schematic of the crystal calibrator. The crystal is operating at its serial resonant frequency. Feedback is provided off the screen grid, while output is from the plate. This helps isolate the crystal from the output load. This circuit is commonly called an “electron-coupled crystal oscillator”. C2 allows adjustment of the crystal series capacitance load for frequency correction. C4 reduces the feedback to keep the crystal dissipation at a safe level. Capacitor C5 couples the signal to the host receiver’s antenna terminal. It is kept small for isolation and also to attenuate the stronger lower frequency harmonics, while letting the weaker higher harmonics pass with less attenuation.

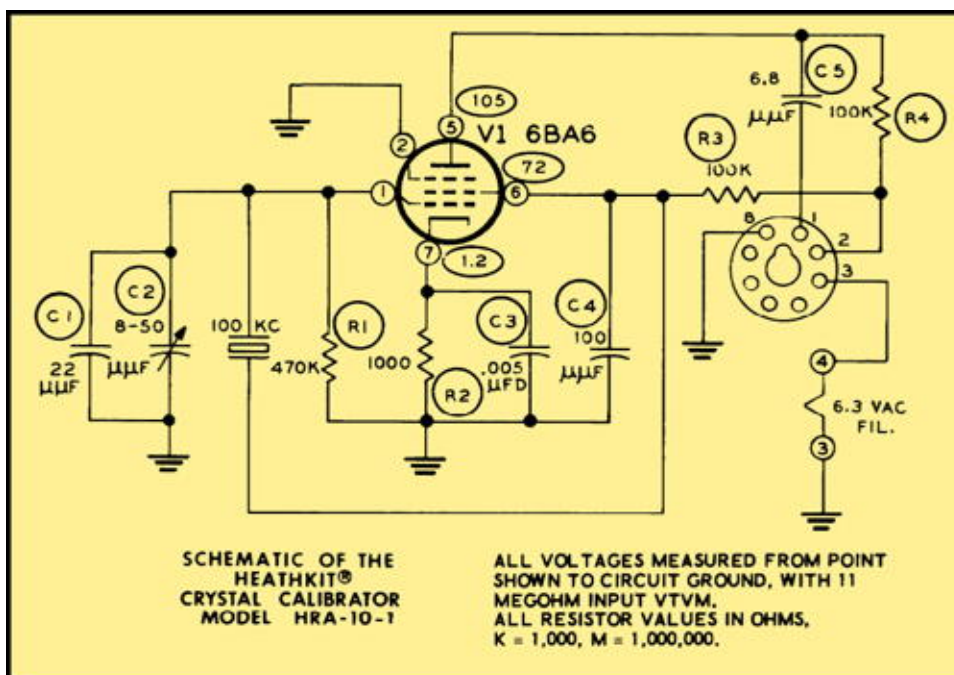


FIGURE 2: Schematic of the HRA-10-1 100 KC Crystal Calibrator

Power is obtained by an octal plug on the bottom of the calibrator chassis. It mates with a standard octal tube socket. **Table II** shows the pin out of the octal plug. While filament voltage is applied to the tube as long as the HR-10 or the Single-Bander is powered on, B+ is only provided when the OFF - CAL. slide-switch on the HR-10(B) is in the CAL. position, or the rotary FUNCTION switch on the Single-Bander is in the CAL. position.

The HRA-10-1 and the Single-Banders:

In Chuck Penson’s excellent 3rd edition of *Heathkit - A Guide to the Amateur Radio Products* he comments :

Note: The [HRA-10-1] calibrator filament circuit is grounded internally to the calibrator chassis. For this reason, the calibrator chassis must not be grounded to the chassis of the radio with which it is used.

This comment seemed odd until realizing that two-years after the HR-10 and HRA-10-1 were

HRA-10-1 100 KC CRYSTAL CALIBRATOR

Pin 1	Oscillator Signal	Output	
Pin 2	150 VDC, 2 mA	Input	B+ power
Pin 3	6.3 VAC 300 mA	Input	Fil. power
Pin 4	Not used		
Pin 5	Not used		
Pin 6	Not used		
Pin 7	Not used		
Pin 8	Ground		Power and chassis

Table II

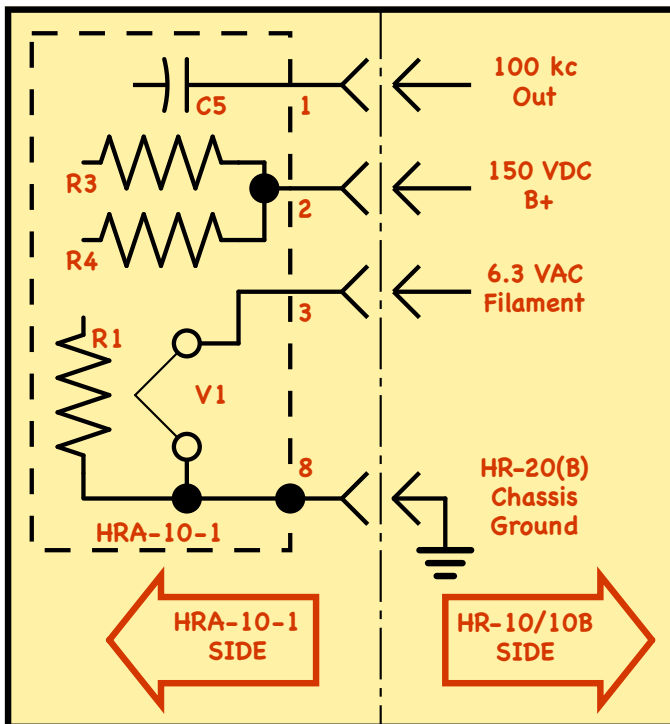


Figure 3: Partial schematic of the current Heath interface between the HR-10 and HRA-10-1.

designed, Heath decided to use it in the Single-Bander transceivers. These radios were designed for both mobile and at home, using an external power supply (HP-13 series for mobile use and HP-23 series for home use). A problem suddenly appeared because now the filaments were running off of 12 volts. There is no problem, and the note doesn't apply to the combination of the HR-10(B) and HRA-10-1. But it does create a dilemma with the 12 volt filament chain of a Single-Bander.

When Heath designed the HRA-10-1 they used pin-8 as a common ground return line for the 150 V power as well as the 6.3 V filament (**Figure 3**). At the time they didn't consider it ever being used with a radio with a 12 volt filament chain. If they had, they would have isolated the filament return line, and grounded it on the receiver side (**Figure 4**). In this figure, pin-5 was chosen for the isolated filament lead. The reason will be obvious shortly.

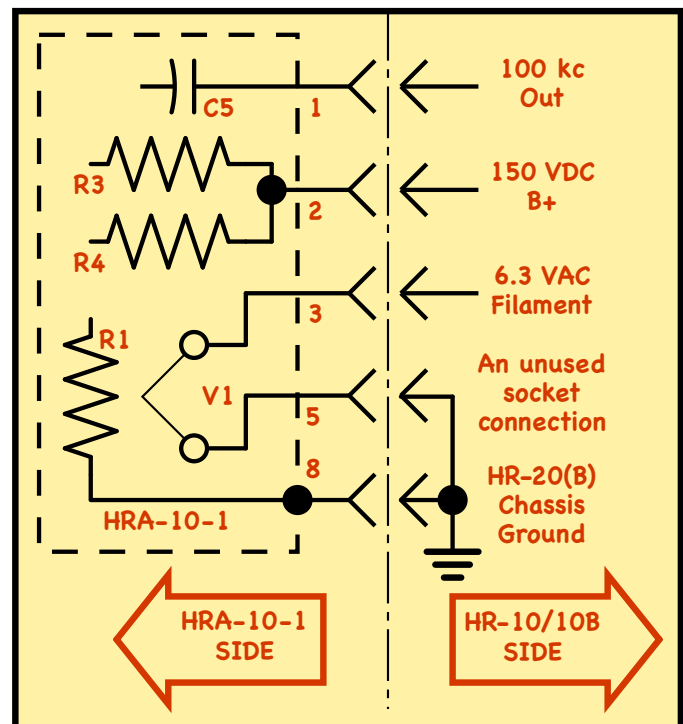


Figure 4: Partial schematic of a more robust interface between the HR-10 and HRA-10-1.

For the HR-10 this mod is trivial, but that isn't the case if the HRA-10-1 is used with an HW Single-Bander.

The following is a discussion on how Heath could have simplified the problem. Unfortunately, since the calibrator socket mounts on the circuit board and pins 4, 6, and 7, while not used by the calibrator, are connected to various parts of the circuit to

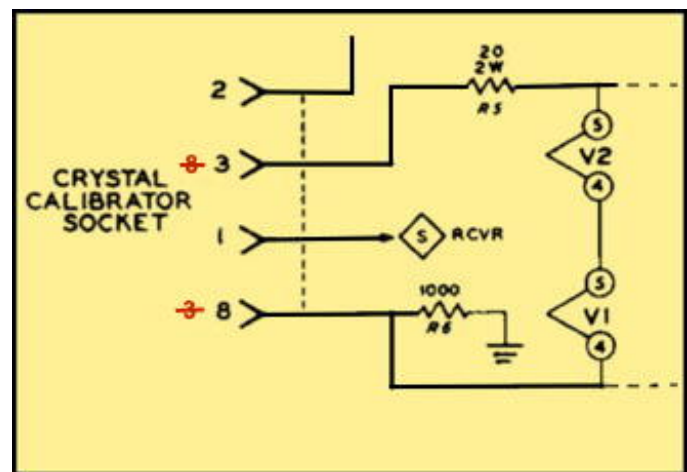


Figure 5: Correct numbering of calibrator socket pins 3 and 8 (from the HW-22A Manual).

expedite the board layout⁷, only pin-5 is isolated. This exercise is more a theoretical solution than a practical modification.

Please note that there is a common error in the early HW-12, HW-22 and HW-32 manual schematics. This relates to pins 3 and 8 on the calibrator octal socket. From top to bottom, they should be marked 2, 3, 1, 8 as shown in black in **Figure 5**. The numbers on pins 3 and 8 should be swapped on early manuals. This error has been corrected in the 'A series' Single-Banders.

Figure 6 shows the unmodified HRA-10-1 connected to an HW Single-Bander. Since pin-8 cannot be grounded at the radio, the B+ return has to go through R6 to ground. Meanwhile the calibrator filament is run directly from the 12 V filament power through R5, a 20 Ω , 2W series resistor to drop the calibrator filament voltage to 6 V. Since pin-8 is connected to the chassis of the calibrator the calibrator is not at ground potential and must be isolated from the chassis of the

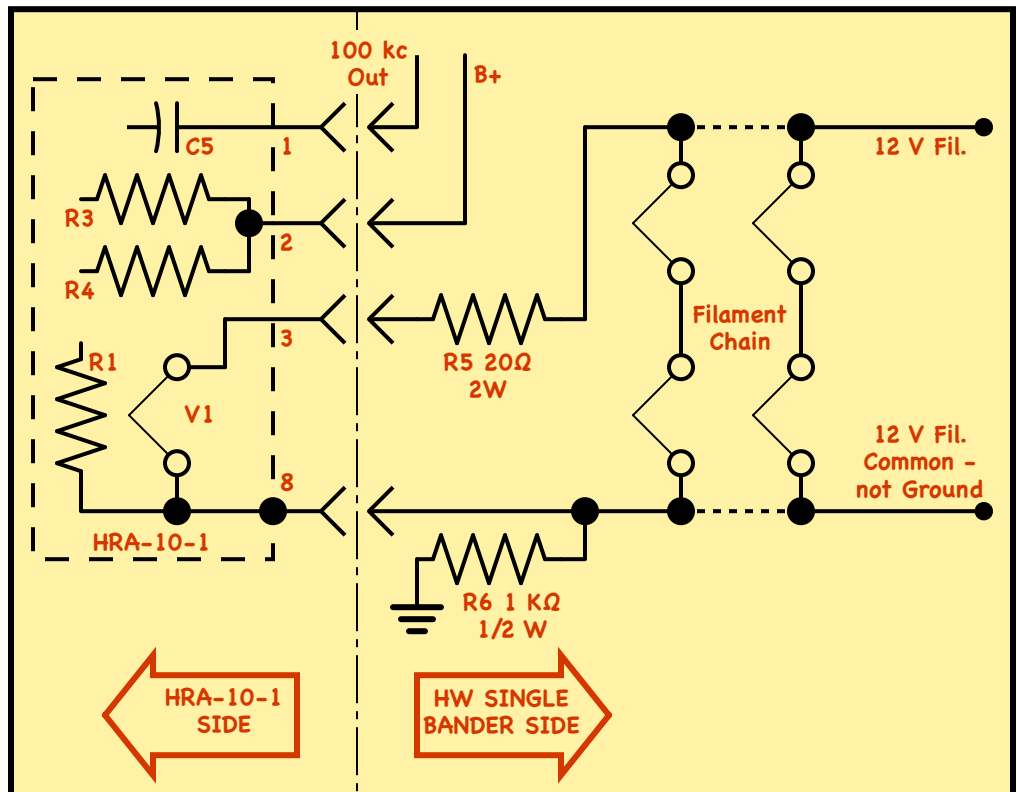


Figure 6: Partial schematic of the stock connections between the calibrator and an HW Single-Bander. Note that the calibrator chassis is floating.

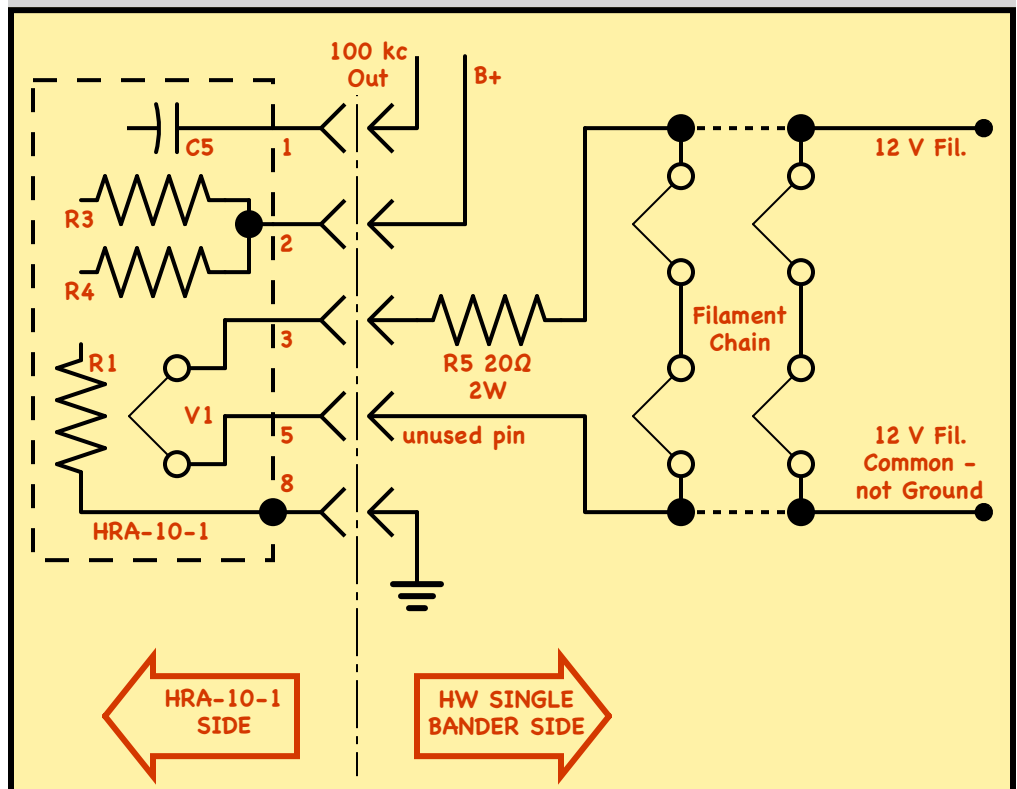


Figure 7: Partial schematic of a hypothetical correction to allow the calibrator chassis to be at ground potential. R6 is no longer needed.

Single-Bander. When operating mobile using the HP-13 power supply the filament common is grounded at the car battery, but when running from the home HP-23 the filament is isolated from ground.

Figure 7 is a hypothetical connection between the calibrator modified with the separate isolated filament return line and an HW Single-Bander, that solves the dilemma, and allows the calibrator chassis to be at ground potential.

Why Heath didn't put out an HRA-10-2 with the modification shown is a good question. It could still be used with the HR-10(B) by adding a simple jumper between pins 5 and 8 on the HR-10(B) calibrator socket. Likely the three circuit boards for the HW Single-Banders had finished layout and Heath didn't want to pay the cost to redo them. A clever Heath engineer had figured a work-around that was sufficient to get the HRA-10-1 working, as is, with just the added cost of one resistor (R6), a metal bracket and fiber insulating washers. The exact reason is lost to history.

I've got an eye out for an HRA-10-1 calibrator as none was included with the HR-10B that was recently acquired. I've been toying with using an old Hammarlund FS-135 100 kc frequency standard that I have ready to be rebuilt. It is about the same size, and adding an octal plug to the bottom wouldn't be too hard.

73, from AF6C



Remember, if you are getting rid of any old Heathkit Manuals or Catalogs, please pass them along to me for my research.

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Thanks - AF6C



Notes:

1. While today kHz is the approved abbreviation for 'kilocycles per second', the author is using kc, which was the abbreviation at the time the HRA-10-1 was introduced. The same is true for mc instead of MHz.
2. The portable Heathkit GR-78 Solid-State General Coverage Receiver uses a 500 kc calibrator (HotM #62).
3. Square waves from logic ICs produce strong odd harmonics but weak or nonexistent even harmonics, so the circuit output should be designed to enhance even harmonics.
4. Part # 404-43 - This is the same 100 kc crystal used in the HD-20, the The HW-100 series transceivers, SB-100 series transceivers (except the SB-104), the SB-300 series receivers and possibly others. The RX-1 Mohawk receiver uses a different crystal.
5. NIST WWV has resumed broadcasting on 25 MHz on an experimental basis. It may be interrupted or suspended without notice. The broadcast consists of the normal WWV signal heard on all other WWV frequencies, at the same level of accuracy.
6. The HR-10A manual offers another calibration method using an AM broadcast receiver.
7. Pin 4 and Pin 7 both connect to junction of R76, R77 and R79 (and other components). Pin 6 connects to the the side of R5 that is not connected to Pin 3.

Notes: HotM #133 HRA-10-1



So far only one person has sent in a solution to the Puzzler that was in the April 2026 issue of RF, page 20. Perhaps, because it was left out of the table of contents, many people missed it? Please read it and take a stab at an answer. It is really quite simple if you give it thought instead of throwing math at it. The answer will be published in a future RF when and if a few more responses are submitted. Anyone can give it a try. Email your solution, response, suggestion, question, etc. to: puzzler@w6ze.org

de AF6C

OCARC General Meeting Minutes

The sixth Regular Meeting of the year was on Friday, June 19, 2026, at the American Red Cross in Santa Ana.

The meeting was called to order by club president, Dan Violette KI6X, at 7:10 PM PDT. Twenty-seven (27) members, guests and visitors were present.

Pledge of Allegiance

•Our president, Dan Violette KI6X, leads the Pledge of Allegiance at 7:10 PM PDT.

Introductions

•Dan KI6X, starts the attendee introductions after the Pledge of Allegiance. Twenty-seven (27) in-person members and visitors introduce themselves.

Meeting Presentation

ARRL Summer Field Day

•President Dan KI6X summarizes the Field Day Schedule for Friday June 26th through Sunday June 28th.

•Food: Dan passes-around a donation jar, and Rick N6NH will arrange sandwiches, egg salad, drinks, chips, and cookies for lunch on Saturday; tri-tip, smashed burgers, hot dogs, egg salad, drinks and cookies for dinner on Saturday; and hot water for drinks, peanut butter, bread, deli, bagels, cream cheese, muffins and danishes for breakfast Sunday.

Field Day Chairman, Ron W6WG recaps the Station Assignments.

Dan calls for OPs for 6M, GOTA, and other stations.

Ron summarizes the Bonus Points and transitions to tent accommodations.

Dan mentions the masts we will be using and the topic turns to sprinkler shut-off and FT8, etc.

Before the break, president Dan KI6X mentions member equipment swaps in the spare time at the General Meetings from now on. There is a limit of two items per seller.

Recess

•Our president, Dan Violette KI6X, calls for a recess at 7:53 PM PDT.

Business Meeting

- Dan KI6X begins the Business Meeting at 8:10 PM PDT.

Roll Call

- Acting secretary, Corey Miller KE6YHX takes roll call for the Board Meeting. Eight (8) Board Members are present for a quorum with the secretary and director-at-large #1 absent.

Director Reports**Vice President Report**

- Tim Goeppinger N6GP reports the July General Meeting will be on AREDN MESH Networking by Orv Beach W6BI.

Treasurer Report

- Tim M. N6TMT discovered an online rebate program that made a donation to our PayPal account and is looking for more information.

Activities Report

- Our activities chairman, Corey Miller KE6YHX, reports he is planning to go to Mimi's Restaurant in Tustin to make our Holiday Party reservation.

Publicity Report

- Michael Mastrianni KO6FAR reports he will be seeking Field Day publicity with HB News.

Membership Report

- Ron Mudry W6WG reports we have 108 members.

Director-at-Large

- Dave N3BKV reports he posted a Remote Station article in the latest RF Newsletter.

Ask the Elmer

- Jon KO6JON has a new Yaesu C4FM radio he needs help programming. Someone has already volunteered to do so, and more help may be available at Field Day.
- Phil KO6ION needs help programming an Anytone radio.

VE Report

- Ken Simpson W6KOS reports we have three new Hams who passed the Technician Test, today.

Show and Tell

- Charlie KM6KCK reports on his Orange County Library Finds, including an Antenna Compendium, and a T-Mobile WiFi Hotspot.

Good of the Club

- Tony has a 25A Yaesu Power Supply that needed a new trim pot. and luckily, Vertex Standard in Stanton had the part he needed to fix it.
- Milt N6MG tells us about a problem with a deliberate LID on the air.

Adjournment

A motion to adjourn is made, seconded and carried at 8:30 PM PDT.

--Respectfully submitted by Corey KE6YHX OCARC Acting Secretary

OCARC BOARD MEETING MINUTES

Since the regular Board Meeting was originally scheduled for July 4th, the meeting was rescheduled by Zoom for Tuesday, July 7. After overcoming some technical difficulties, meeting was called to order by President, Dan KI6X, at 6:07PM. Secretary, Janet KL7MF, called roll to find all present except Publicity Chairman, Michael KO6FAR, and Director-at-Large, AJ W6OTO, confirming a quorum was present.

Vice-President, Secretary, Technical, and Director-at-Large present had no reports regarding their various positions.

Treasurer, Tim N6TMT, submitted a cash-flow report for the first half of the year via email to the Board, with a current positive cash available of \$282.44. The board reviewed financial reports showing expenses for June, including a triplexer purchase and six months of rent, with a \$420 reimbursement expected from Ken and Bob from the W6NGO Trust Fund. N6TMT reported renewing the Club CD with Wells Fargo for the shortest period with highest interest, with renewal due in October.

Activities Director, Corey KE6YHX, advises, in a recent visit to Mimi's, the Club's Christmas Party date has been reserved for Friday, December 4th from 4pm to 9pm. A menu will be available in November to be examined and considered by the Board.

Membership Manager, Ron W6WG, reported 110 members and noted that new member Jamison's payment method was unclear, though N6TMT indicated Jamison would probably pay by mail.

CLUB MONTHLY PLANNER REVIEW:

Treasurer, Tim N6TMT, was assigned to file State Form SI 100 (an up-to-date listing of Club Officers) by the end of August.

OLD BUSINESS:

Newsletter Editors: The team reviewed newsletter responsibilities, with Michael, KO6FAR, handling the current month and Tom, AK6GR, taking August, while seeking a volunteer for September. Ron raised a question about column layout for the radioactivity page, and Dan advised using single columns to reduce formatting work. Permission to use the Huntington Beach newspaper article in the RF Newsletter was granted.

Entertainment: Tim, N6GP, provided updates on upcoming entertainment, including Orv Beach, W6BI, via Zoom on AREDN mesh networking for July and Renalynne Funtanilla from Irvine Nature Conservancy on Firewatch for August. Discussion regarding providing dinner for Renalynne as sometimes done for speakers from out of the area resulted in the decision not to do so since she is local. Janet, KL7MF, suggested contacting Wayne Yoshida for a potential November presentation about power supply challenges. Tim, N6GP, is still attempting to contact a speaker regarding an EME presentation via Zoom for September.

OCARC Remote Station:

Director, Dave N3BKV, reported approximately 80 hours of usage last month from two main users: Tom (AK6GR) and Harold (W6HAR), plus onboarding of five or six additional people. Ron shared that Anatoli (NC6M) showed interest in the system after seeing a demonstration at his home. All members are encouraged to give the station a try if unable to work HF from their home QTH.

Field Day 2026: A wrap-up and lessons learned! A big lesson learned from Field Day 2026 was the need for better equipment labeling to avoid confusion between parts, particularly for the three-element Force 12 antenna where incorrect parts were initially installed. While there were some initial hiccups, the event overall went well as to contacts being made, though 15m sideband performance was slower than expected. Tim, N6GP, thinks we will place somewhere similar to last year's ratings around 25th. We missed bonus points due to improper delegation and rule compliance issues. Problems were identified with Winlink message delivery through the RRI system and agreed to switch to ICS 213 email format for future communications. Ron, W6WG, collected approximately 25-30 pictures from participants, including 20 from Janet, KL7MF, which could be used for a newsletter article. N6TMT reported discovering a screw in their tire at the event location and mentioned a missing fire extinguisher that may have been stored with John's generator equipment. A discussion arose regarding issues with rivets on the Force 12 beams used at previous field day events, with Tim, N6TMT, explaining that a neighbor had to modify them to fit in the truck for transport to the Field Day site. It was suggested a thank you be sent to Tim's neighbor for his efforts. Food expenses were discussed, with approximately \$500 in donations having been collected. Rick, N6NH, will review his

receipts to see if the Club covered his expenses. A Yaesu FT-990 was displayed for sale in the SSB operating tent, and sold for \$350. An Icom radio was also listed and potentially sold, but the deal fell through.

Clean Up Nicholas' Storage: Plans suggested to review storage items in Nicholas' storage locker in August before the October auction, with the goal of identifying items to keep for the auction while leaving aside items not considered applicable for Nicholas to review at some point.

NEW BUSINESS:

Tim, N6GP, raised a question about PO box renewal, noting a rate increase effective July 12th, and the group decided to attempt renewing early to see if they could maintain the current rate. Ron, W6WG, announced he would miss the July general meeting due to travel, and the group confirmed the next Board meeting would be held August 1st at the Streamliner Lounge location in Orange.

GOOD OF THE CLUB:

Notification reminders are being sent out via Dave, N3BKV, to Corey, KE6YHX, to notify club members within 90 days of upcoming license renewals. Anybody interested in monitoring WRTC-2026 (World Radio Team Championship) from the host country of the UK, July 8-13 are the dates. The very first WRTC was in 1990 in Seattle, and our own Chip K7JA partnered with W9RE (Mike Wetzel) to place #2 in the standings. Note that a fair percentage of the minutes were pulled and modified from an AI generated report.

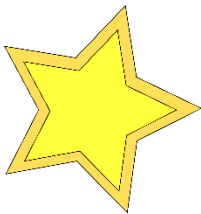
Having no further business, the meeting was adjourned at 6:50PM

Submitted by OCARC Secretary, Janet Margelli, KL7MF

Ham Radio Sales at General Meetings

The Board has decided to allow ham radio sales at the General Meetings (starts July 17). These will be limited and will not distract from regular meeting times or duties. Here are the rules (as of now):

1. Limit to 2 items per month.
2. No fees charged at this time.
3. Sales will happen before or after meeting or at break.
4. Sale price and financial dealings between you and buyer.
5. Rules subject to change – May have those with items for sale raise their hand right before break or set-up in back?



Cash Flow 1/1/2026-
6/30/2026

INFLOWS

Badge Income	5.00
Donation	105.00
Dues 2026	645.00
Dues, PayPal 2026	1462.50
Interest Inc	256.60
Opp Drwg Income	187.00
Refreshments Income	148.37
TOTAL INFLOWS	2,809.47

OUTFLOWS

Archive Supply	34.77
FD Tent Rental	285.00
Field Day – Equip	420.21
Lazer Pointer	35.55
PayPal Fees	68.54
Prizes	391.54
Refreshments Expense	216.73
Software License	77.88
Speakers Meal Reimburse	49.06
Storage Equip.	325.00
Website	173.10
WFD Food	130.00
WFD Gift	22.00
WFD Propane	77.65
WFD Tent Rental	220.00
TOTAL OUTFLOWS	2527.03
 OVERALL TOTAL	 282.44

The VE Corner

On Friday June 19, 2026 we had three candidates who took the test for Technician. The new Technicians are Geoffrey R Dick (KO6OGW), Matthew W Wright (KO6OFW) and Timothy D Carleton (KO6ODN). Kudos to Geoffrey who came all the way from Thousand Oaks for the test.

It has come to my attention that some folks are having problems finding the link to register for the test. The link is <https://hamstudy.org/sessions/W6KOS-OC/all>. Select the date and fill in the information. The app will let me know that you registered.

Congratulations to the passing candidates from the VE exam team.

Ken Simpson W6KOS

Team Lead



Community News

OC Amateur Radio Club hold Field Day in HB

by: Jerry Person Published: June 29, 2026



These two are contacting hams using old Morse

HUNTINGTON BEACH... "Calling CQ," "Calling CQ."

If you know what that means then you were or are a Ham. No not a bad actor, but a member of the elite group of Amateur Radio Operators.

It was in the early 1900s that men were experimenting with something they called wireless telegraphy with their spark-gap equipment transmitting Morse Code short distances. As more powerful and better equipment came along, longer distance were achieved and wireless sets were now placed in trains and ships.

In 1912 a signal was sent out from a ship in trouble and in America a "Ham" heard dot, dot, dot, dash, dash, dash, dot, dot, dot (... ---...) (SOS) faintly on his earphones repeated over and over.

That ham operator was David Sarnoff and he would go on to start RCA and the ship that sent out that signal was the ill-fated ocean liner Titanic.





These three are using voice to contact ham operators

Over those many years ham transmitters have gone from spark-gap, glass tubes to transistors, but an early ham of the 1920s - 1940s would still feel right at home with today's modern equipment, talking to other hams through voice and Morse Code around the world.



This last Saturday and Sunday, June 27 & 28 at the Spring View School as members of the Orange County Amateur Radio Club participated in an amateur radio exercise called ARRL Field Day hosted by the American

Radio Relay League (ARRL). The American Radio Relay League is the national association for amateur radio in the United States with ham radio operators that range in age from youngsters to seniors.

Several sizes of antennas filled the park-like lawn next to the Spring View School that were connected by cables to transceivers (Transmitter-receiver in one unit) as operators began calling CQ meaning anyone out there want to talk.

Dan Violette, KI6X, from Orange has been communicating with fellow ham operators for 47 years.



L-R: Ham Radio Operators Wayne KH6WZ and Dan KI6X

"This time we are just contacting hams in both the United States and Canada, and on Sunday we have contacted over 2000 hams in either voice or on old Morse Code" said Violette.

People today think that they can use their cell phone to contact friends and relatives in a major emergency, but if the internet is down, those cellphones are only good for playing games or taking photos.



Power generator supplying voltage to ham transceivers

The exercise helps prepare ham operators for a possible major emergency when normal communication, radio, telephone, internet, or power were damaged and out of commission. A ham can set up mobile communication to the outside world in minutes, relaying messages to other hams thousands of miles away to let someone know that a relative or friend is ok.





In the park-like setting two tents were spaced apart so that the signals would not interfere with each other. In the smaller one housed the code transmitters that tapped out Morse Code to fellow hams thousands of miles away and in the larger tent housed several transmitters for voice and text transmissions. For those who may be interested in Amateur "Ham" Radio in Orange County should check out the club's website at www.w6ze.org or email a question to them at ochamclub@w6ze.org

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Visit more of our week's

[Community News webpages](#)

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The **ORANGE COUNTY AMATEUR RADIO CLUB, INC.**

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