

SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 92 * September 2023



Delta Amateur Radio Club (DARC)

Sparks Newsletter

Website: <http://deltaclub.org>

Facebook:

<https://www.facebook.com/darcmem>

W4BS

REPEATER SYSTEM

146.820 ^{-107.2}	147.360 ^{+107.2}
146.625 ^{-107.2}	443.200 ^{+107.2}
224.420 ^{-107.2}	443.700 ^{+107.2*}
144.390 Digipeater	*Fusion

This month's meeting will be **IN PERSON ONLY** at 7 pm on Tuesday, September 12, 2023.

*****MEETING LOCATION FOR SEPTEMBER*****

The September meeting will be held at Mid-America Theological Seminary located at 2095 Appling Rd, Memphis, TN 38016. See the Delta Club webpage at: <http://www.deltaclub.org> for detailed instructions on how to find the correct entrance. Parking is in the back of the south end of the building. The meeting will be in the Betty Howard Special Events Room.

There will be FCC Testing Tuesday in Room B201.

Program: "From the Roadways to the Airwaves, taking Ham radio on the road" by John Reiners, KN4BVH

VE TESTING: Don't forget the monthly ARRL Volunteer Examiner testing session prior to in-person meetings. Registration begins at 5:30 PM and testing begins by 6:00 PM. Please remember to bring two (2) forms of identification, at least one a photo ID, and copies of any existing licenses or CSCE's you might have. Please be on time for registration, as you will not be allowed to enter the testing session after 6:00 PM. This is to allow our volunteer VE team to finish in time to attend the club meeting. Candidates **MUST** have an FCC Federal Registration Number (FRN) **BEFORE** coming to the testing session. For more VE testing, or FCC FRN information, please contact:

Bob Vawter, KW4RJ, VE Liaison

Phone: 901-438-4563

Email: KW4RJ@ARRL.net

Announcements

Volunteers for Delta Club Board of Directors

We are approaching election time and we need two more individuals to serve on a Nominating Committee to nominate the upcoming Delta Club Board of Directors. Perry Hayes N4GJ will serve as the chairman of the committee.

The members on the Nominating Committee will work together to make sure that each of the elected Delta Club Board of Directors positions have at least one nominee. These names will be placed into nomination at the October membership meeting. If you are interested in serving on this committee, please contact Perry Hayes N4GJ at pshayes@gmail.com or 901-626-2279 by the August membership meeting.

Board of Directors Election Approaching

If you are looking for a way to get more involved in Delta Club, consider serving on the Board of Directors! Nominations for the 2024 year will open during the October 10, 2023 membership meeting. Every position is open, but some of the current board members have expressed interest and willingness to serve another year.

All nominees must be members of the DARC in good standing and possess voting rights. To be nominated, one must have attended at least six of the past twelve membership meetings at the time of election, which is Tuesday, November 14, 2023. If you are unsure of how many meetings you have attended, check with Paul Broom KY4MX.

More information about the board responsibilities and the election process can be found in Article IV of our bylaws: https://img1.wsimg.com/blobby/go/58124ffd-d6ca-4502-9af3-7fa04c033729/downloads/DARC%20Bylaws_2021.pdf?ver=1690123687369. (The bylaws are posted at the bottom of the Membership page on www.deltaclub.org.)

If you are interested in serving on the board, please contact Nominating Committee Chairman Perry Hayes N4GJ at pshayes@gmail.com or 901-626-2279. If you have questions about the responsibilities of the board, ask any current and/or former board member.

2023 A Day In The Park

The Mississippi Section sponsors A Day in the Park once a year with clubs around the state.

This year it will be held October 14, 2023 at Olive Branch Park coordinated by both the Chickasaw Amateur Radio Association and the Olive Branch Amateur Radio Club.

The following is a link to their flyer:

<https://groups.io/g/CARA-MS/files/2023%20A%20Day%20in%20the%20Park%202.0/A%20Day%20in%20the%20Park%202023%20flyer.pdf>

ARRL Dues Increase

ARRL Dues is going up from \$49 to \$59 per year on January 1, 2024. There is a discount for 2 and 3 year renewals. You can renew your membership any time and the term will be added to the current expiration date. If you renew your ARRL membership through the club, the club will receive \$5. Complete the ARRL application and make checks payable to Delta Amateur Radio Club.

Announcing West Tennessee Area Wide Tailgate and Swapfest

WHERE: Gibson County Fairgrounds
1242 Manufacturers Row
Trenton, Tennessee 38382

When: Saturday Sept 16th, 2023

Time: 9 AM – 2 PM

- ◆ **West Tennessee's Largest Tailgate**
- ◆ Free Admission
- ◆ Vendor Tables \$5.00 each Outside
\$10.00 each Inside
- ◆ Two huge air-conditioned buildings
- ◆ Plenty of **free** parking
- ◆ Talk-in Frequency 146.865 MHz-T127.3
- ◆ License Test Session
- ◆ Contact Stan email:aa5xo@rocketmail.com

Delta Club Equipment For Sale

See the end of Sparks for a list of Equipment Delta Club has For Sale.

President's Corner

Submitted by Mary Jean Hall, KY4FB

September President's Corner

Submitted by Mary Jean Hall KY4FB

Cooler temperatures and fall weather is upon us, and so are lots of ways to get involved with Amateur Radio! Whether you picked up new goodies at Huntsville or have had projects pushed aside at home, it's time to take advantage of the better weather and get outside to work on them!

Tuesday's program will be "Taking Ham Radio on the Road." This program covers mobile antennas, mounts, power and the tools needed for routing and hiding wiring. Hopefully this program helps you get the needed "spark" to get a jump start on those projects!

Thank you to all who provided feedback during the August meeting. One of the suggestions we are incorporating will be having an 'Elmer request' sign-up sheet. There will be two parts to this. This week we will have a sign-up sheet for those who would like assistance with an Amateur Radio topic, such as soldering, antennas, CW, etc. Write down your name, contact information and the topic you need assistance with, and we will work on finding someone to assist you. The Board of Directors hopes to eventually compile a list of Elmers that we can have printed at each meeting. If you are skilled in a certain ham radio topic and would be willing to help out some of the newer members, let a board member know so we can add you.

See you all Tuesday!

73,
Mary Jean KY4FB

Treasurer's Report
Submitted by Jim Martin, KD4FUU

Please renew your membership right away, so you won't forget about it! The membership application may be downloaded from our website (for both renewals *and* new members) at:

<https://deltaclub.org/membership>

Annual membership fee is \$20 per individual or \$25 per family. Completed applications and payment may be mailed to:

Delta Amateur Radio Club
PO Box 342768
Memphis, TN 38184-2768

If you prefer you can print and bring the completed form, along with the membership fee, to any in-person meeting. Please contact Jim Martin KD4FUU at **kd4fuu@gmail.com** with any questions or concerns regarding application submission and/or payment of annual dues.

LIFEGREEN CHECKING FOR BUSINESS

August 1, 2023 through August 31, 2023

SUMMARY

Beginning Balance	\$22,314.72	Minimum Daily Balance	\$19,798
Deposits & Credits	\$2,619.00 +	Average Monthly Statement Balance	\$20,889
Withdrawals	\$0.00 -		
Fees	\$0.00 -		
Automatic Transfers	\$0.00 +		
Checks	\$5,135.44 -		
Ending Balance	\$19,798.28		

DEPOSITS & CREDITS

08/11	Deposit - Thank You	540.00
08/11	Deposit - Thank You	174.00
08/15	Deposit - Thank You	99.00
08/15	Deposit - Thank You	265.00
08/17	Deposit - Thank You	200.00
08/22	Deposit - Thank You	845.00
08/22	Deposit - Thank You	496.00
Total Deposits & Credits		\$2,619.00

CHECKS

<u>Date</u>	<u>Check No.</u>	<u>Amount</u>	<u>Date</u>	<u>Check No.</u>	<u>Amount</u>
08/01	1594	54.27	08/21	1598	228.00
08/03	1596 *	2,337.00	08/29	1599	484.14
08/21	1597	32.03	08/28	1600	2,000.00
				Total Checks	\$5,135.44

* Break In Check Number Sequence.

DAILY BALANCE SUMMARY

<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>
08/01	22,260.45	08/11	20,637.45	08/17	21,201.45
08/03	19,923.45	08/15	21,001.45	08/21	20,941.42

SMALL BUSINESS CD *8481

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$5,074.59	1.980 %	\$74.59	\$10.75
<u>SHOW ACCOUNT NUMBER</u> *8481			
ISSUE DATE	LAST INTEREST AMOUNT PAID	PREVIOUS YEAR INTEREST	
10/28/2022	\$24.98	\$0.00	
ISSUE VALUE	DATE LAST INTEREST PAID	MATURITY DATE	
\$5,000.00	7/28/2023	11/25/2023	
▲ Hide More Details			

SMALL BUSINESS CD *8503

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$11,185.00	2.230 %	\$185.00	\$26.68
<u>SHOW ACCOUNT NUMBER</u> *8503			
ISSUE DATE	LAST INTEREST AMOUNT PAID	PREVIOUS YEAR INTEREST	
10/28/2022	\$62.01	\$0.00	
ISSUE VALUE	DATE LAST INTEREST PAID	MATURITY DATE	
\$11,000.00	7/28/2023	11/26/2024	
▲ Hide More Details			

Applications Received - Aug 2023

(0) New Membership(s) - Pro-Rated Dues	\$0.00
(3) New Membership(s) - Dues Waived	\$0.00
(0) New Membership(s)	\$0.00
(0) Membership Renewal(s)	\$0.00
(0) Donations Received	\$0.00
Total Dues Received	\$0.00

Other Deposits & Credits

(0) ARRL Club Commission - New Members (\$15.00)	\$0.00
(0) ARRL Club Commission - Renewals (\$5.00)	\$0.00
ARRL Memberships (4 Individual @ \$49, 1 Family @ \$69)	\$265.00
Club Equipment Sales - Al Simpson Estate	\$540.00
Club Equipment Sales - Huntsville Hamfest Flea Market	\$496.00
Huntsville Hamfest - Collected Bus Fare (2 @ \$99, 1 @ \$174)	\$372.00
Donation Received - 2023 Huntsville Hamfest Bus Scholarship	\$746.00
Donation Received - 2024 Huntsville Hamfest Bus Scholarship	\$200.00

Total Other Deposits **\$2,619.00**

Total Deposits **\$2,619.00**

Withdrawals

None	\$0.00
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Total Withdrawals **\$0.00**

Checks

Check #1594 - Scott Adams - Reimbursement for Club Refreshments	\$54.27
Check #1596 - Cline Tours Inc. - Huntsville Hamfest Bus Charter	\$2,337.00
Check #1597 - Scott Adams - Reimbursement for Club Refreshments	\$32.03
Check #1598 - Huntsville Hamfest - 19 Entry Tickets @ \$12.00 ea.	\$228.00
Check #1599 - Joe Lowenthal - Reimbursement for Huntsville Hamfest Expenses, ARRL Memberships, Antenna Hardware, and Miscellaneous Club Expenses	\$484.14
Check #1600 - Wallace Tower Specialists Co. - Tower/Antenna Work	\$2,000.00

Total Payments **\$5,135.44**

DARC Board of Directors Meeting Minutes

Submitted by Paul Broom, KY4MX

DARC Board of Directors Meeting Minutes for September 6, 2023

Attendees: Mary Jean Hall KY4FB, Perry Hayes N4GJ, Paul Broom KY4MX, Jim Martin KD4FUU, Joe Lowenthal WA4OVO, John Reiners KN4BVH, Scott Adams KM4PMU, Barry McDonald W5CJ and Len Grice W4MKS.

Absent: Mike Harrison KM4MRW

Guests: None

The regular monthly meeting of the Delta Amateur Radio Club Board of Directors was held on Tuesday, September 6 at 6:30 PM on a Zoom video conference call, with the President serving as chair and the Secretary being present. President Mary Jean Hall called the meeting to order.

Unfinished Business

Joe Lowenthal WA4OVO reported that the club is able to continue using the Mid-American Theological Seminary for the next several months for the monthly meetings. The November meeting will need to shift to another room at the Seminary due to a prior event scheduled in the current room.

Joe Lowenthal WA4OVO gave an update on equipment sales at the Huntsville Hamfest. Approximately \$500 was received from the equipment sales. He also indicated that the club should consider reserving tables earlier next year in order to get a better location in the Flea Market area of the Hamfest.

New Business

Jim Martin KD4FUU presented the monthly Treasurer's report. John Reiners KN4BVH moved to accept the Treasurer's report and the motion was seconded by Joe Lowenthal WA4OVO. The motion passed without objection.

Paul Broom KY4MX presented 3 new member applications for membership. He moved to accept these applications, and the motion was seconded by Joe Lowenthal WA4OVO. The motion passed without objection.

Board/Officer Reports

Joe Lowenthal WA4VO gave an update on the Technician Training class that recently completed. A total of 10 students took exams, with 11 exams being passed which included 1 General exam. He

also indicated that a General class would likely start in late October or early November, with an Extra class starting in January.

Joe Lowenthal WA4OVO indicated that he would put out a listing of equipment for sale prior to the next meeting, and would bring some equipment to the meeting as well. He also indicated that he would be taking some equipment to the Day in the Park event in Olive Branch.

John Reiners said that this month's program would be "Taking Ham Radio on the Road" and would cover mobile antennas, mounts, power, and tools used for routing and hiding wiring.

Paul Broom KY4MX brought up the discussion from the prior member meeting about an Elmer Listing to be available with the handouts. After discussion it was decided to create a sign-up sheet for Elmer assistance, including the issue at hand, and Members of the Board would work to connect the individual with an Elmer in that area. Joe Lowenthal WA4OVO suggested that we also get some members to agree to be Elmers and list them in SPARKS. The sign-up sheet will be available at the September meeting. Paul also mentioned a few options for additional youth outreach, including possibly offering the Radio Merit badge at Boy Scout Merit badge events.

Barry McDonald W5CJ said that he was pleased with the work done on the 146.82 repeater as well as the range it has.

Scott Adams KM4PMU had nothing to report.

Len Grice W4MKS had nothing to report but thanked Barry McDonald W5CJ and his team that worked on getting the 146.82 repeater back on.

Perry Hayes N4GJ indicated that the outreach to new members and guest at meetings seems to be well received. He also gave a brief update on the nominating committee.

Perry Hayes N4GJ adjourned the meeting at 7:30 pm. The next regular Board of Directors meeting is scheduled for Tuesday, October 3, 2023, at 6:30 PM on Zoom.

Respectfully submitted by Paul Broom KY4MX, Secretary

Minutes of Last Month's Club Meeting
Submitted by Paul Broom, KY4MX

DARC Meeting Minutes for August 8, 2023

Call to Order and Opening Remarks

The regular monthly meeting of the Delta Amateur Radio Club was held on Tuesday, August 8, 2023, at 7:00 PM at the Mid-America Baptist Theological Seminary, with the President serving as chair and the Secretary being present. Club President Mary Jean Hall KY4FB called the meeting to order and then welcomed everyone to the meeting. At least 48 members and guests were present for the meeting.

Mary Jean Hall KY4FB reminded everyone to sign in at the front door and to sign one ticket for the November drawing. She also informed everyone about the handouts that were available. New members and guests were recognized and she asked that everyone greet them during a break or after the meeting.

Minutes and Treasurer's Report

Ned Savage KA4BLL moved to approve the Treasurer's Report and Secretary's Minutes as published in Sparks. Carolyn Horne KX4QF seconded the motion. The motion was adopted by the club without objection.

Announcements

Joe Lowenthal WA4OVO gave an update on the recent Technician training class. There were nine people at the testing session and all 9 passed, which include 1 upgrade to General for a student who had already taken and passed the Technician exam. The last session on Monday August 14 will be a demonstration on how to program a radio, APRS and other digital modes, and satellite contacts. He also thanked the instructors who assisted with the class. He also indicated that there will most likely be a General class starting the first week of November, and an Extra class starting the first week of January. Mary Jean Hall also thanked the instructors and Volunteer Examiners for helping with the class and also testing.

Bob Vawter KW4RJ gave the VE update indicating there was 1 upgrade to General during the pre-meeting testing session.

Joe Lowenthal WA4OVO gave an update on the upcoming Huntsville Hamfest. The bus currently has 25 people signed up for the trip. He also thanked the anonymous donors who funded the cost shortfall for the trip. Mary Jean Hall KY4FB thank Joe for his coordination of the trip and the anonymous donors for their support.

Mary Jean Hall KY4FB announced that the ARRL VOTA W1AW portable will be in Tennessee starting on September 13 and will run for 5 or 6 days. Groups/members are able to operate under the call sign W1AW/4. She indicated that if there was interest, she would register for a timeslot for the Delta Club. Steve Frazier KK4VPT participated in the event earlier in the year, and explained how it worked. Logging was accomplished utilizing Logbook of the World. John Reiners KN4BVH operated FT8 during the event also, and indicated he worked multiple pile ups as there was much interest in making contacts with W1AW/4. Mary Jean Hall KY4FB asked the group regarding interest, and indicated that she would reach out to the coordinator and get additional information that would be covered at the next meeting.

She also mentioned that the Bluff City Blues Ride would be on September 30. It is a bike ride that starts off in Shelby Forest and goes up to the Burlison area in Tipton County. The ride goes through several areas with no cell service and so they rely heavily on our group to support the race by operating SAG vehicles (supplies and gear), manning aid stations, and other regular race related communications. This is great opportunity for newer hams to get experience using radios in a public service event. More information will be communicated as it becomes available. She also indicated that there will not be an MS 150 ride this year. She asked that if anyone was aware of any new events or events that might need communications assistance to please let the club know.

Mary Jean Hall KY4FB also indicated that it's time to start thinking about the upcoming Board elections that will occur at the November meeting. She is to appoint a nominating committee who is then responsible to see that all positions have at least 1 person running for each position. Also, every position is open to anyone who may be interested as long as they meet the requirements to run for election (must have attended at least 6 of the 12 meeting during the year). Several current Board members have indicated that they would be willing to continue serving, but there are some that would like to step down due to other commitments. Perry Hayes N4GJ will be leading the nominating committee of 3 members and asked if anyone is interested in serving on that committee to please let him know.

Joe Lowenthal WA4OVO indicated that he encourages the Technician class students to join the ARRL. He will be collecting checks and applications at the final Technician class meeting next week. He encouraged anyone joining for the first time or looking to renew to do so through the club as it receives a rebate for any applications it processes for the ARRL. Mary Jean Hall KY4FB also reminded everyone that ARRL dues are going up on January 1st, and indicated that now would be a good time to renew. Joe Lowenthal asked that people make checks payable to the Delta Amateur Radio Club.

Mary Jean Hall KY4FB also announced that there would be a full solar eclipse on April 8, 2024. Memphis will be in the 95% path of the eclipse. She thanked Rick Tillman WA4NVM for sharing that information.

Joe Lowenthal WA4OVO also reminded everyone of the Olive Branch Day in the Park event which will be held on October 14 from 9:00 to 3:00.

Discussion / Program

John Reiners KN4BVH gave a presentation on the upcoming Huntsville Hamfest and also led a discussion on the Delta Club repeaters. He gave an overview of the presentations that will be available at the Hamfest, and also explained about the vendors that would be present as well as the flea market area. The club also has 2 tables in section E of that area for equipment sales. Next, he led a discussion on the repeaters in the area and their respective capabilities. Barry McDonald W5CJ gave an update on the repair plan for the 146.82 repeater. The antenna is to be moved up 200 feet and connected to an existing feedline that also terminates in the club's repeater room. Ty McMahan KX4MQ said that working on repeaters is mostly a thankless job, and so he wanted to acknowledge all the work that Barry McDonald W5CJ and his crew do to keep the club's repeaters going. Joe Lowenthal WA4OVO suggested that everyone practice simplex as well as it may be the only thing that works after a major disaster. Mary Jean Hall KY4FB also suggested that everyone check their equipment and make adjustments to improve their capabilities. John Reiners KN4BVH also recommended that everyone periodically test backup equipment. Mary Jean Hall closed the discussion by thanking Barry McDonald W5CJ, Rick Tillman WA4NVM and Rick Kanschat N0KYN for all their work on the club repeaters. She also thanked Joe Lowenthal WA4OVO, Steve Frazier KK4VPT, and Scott Adams KM4PMU for selling equipment to help fund the repeater upkeep.

Closing Remarks

Delta Club President Mary Jean Hall KY4FB adjourned the meeting at 8:51 PM.

The next Delta Amateur Radio Club meeting will be Tuesday, September 12, 2023, at 7:00 PM at the Mid-American Theological Seminary.

Respectfully submitted by Paul Broom, Secretary (2023)

Delta Ham License Training, 2023

Submitted by Joe Lowenthal, WA4OVO, DIRECTOR OF TRAINING

There is no charge for classes, but the student is responsible for the purchase of the license manual and the \$15 ARRL FCC examination fee. The FCC implemented a \$35 administration fee on April 19, 2022.

If you want to take a class, send an email to Joe at wa4ovo@gmail.com with the class name; ie, Tech Class, General Class, or Extra Class, on the Subject line and name, callsign if you have one, email address, and cellphone number in the text.

Licenses Earned in 2023 from Delta Classes

13 Technician

2 General

3 Extra

Note:

As of April 19, 2022 there is a \$35 FCC application fee for new hams, renewals, Vanity callsigns, etc except for license upgrade, systematic callsign issue, name, address or email changes. This is in addition to the \$15 ARRL VEC FCC exam fee.

The new Technician ARRL Ham Radio License Manual is the Fifth Edition with question pool that becomes effective July 1, 2022 for four years.

The current ARRL General Class License Manual is the Ninth Edition with question pool that became effective July 1, 2019 for four years.

The current ARRL Extra Class License Manual is the Twelfth Edition with question pool that became effective July 1, 2020 for four years. *This question pool will expire on June 30, 2023,*

As of late 2019, expired Amateur Radio license holders can get their license back by taking the current Technician exam and show proof of their previous license class. A previous Advanced Class licensee will only be able to get a General Class license.

PROPOSED CLASSES

All classes will be 3-1/4 to 4 hours long for six or seven sessions; one per week on a week night 6:15pm-9:30pm or Saturday day 9am-1pm.

If interested in a class, send an email to wa4ovo@gmail.com with Subject line: Tech, General or Extra Class and name, email address and cellphone number is text.

The next **General** license class will probably start in early November 2023
The next **Extra Class** license class will probably start in early January 2024
The next **Technician** license class will probably start late February 2024

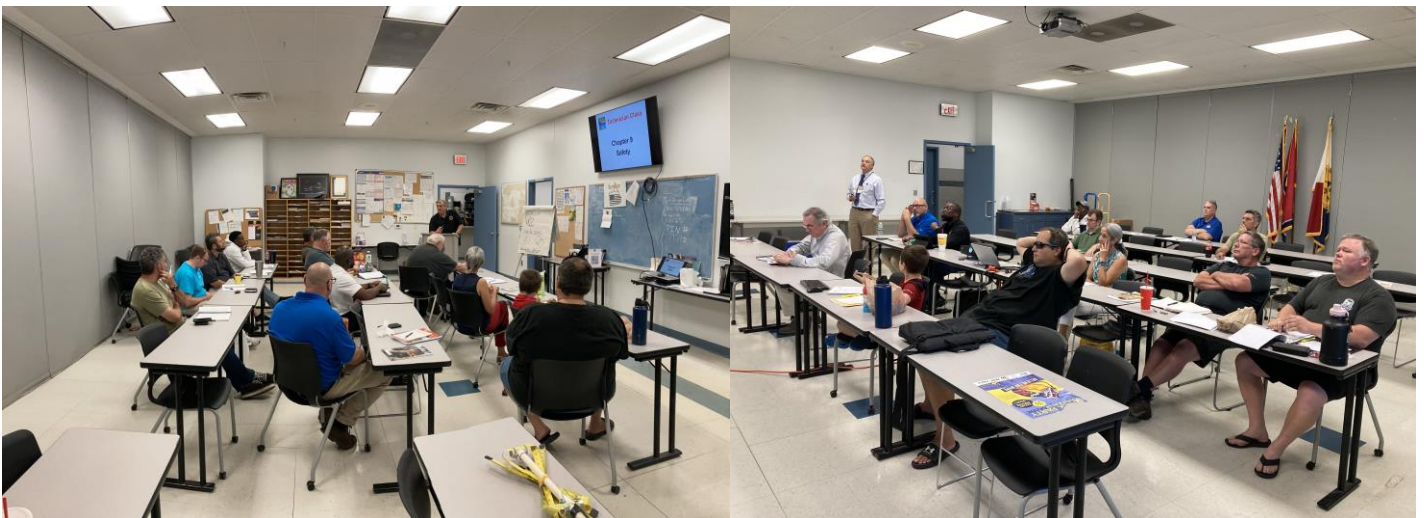
CURRENT CLASS

None

COMPLETED CLASSES

Tech Class 3-23 – July 10 – August 14, 2023

A Technician license class was held in person on six Monday nights from 6:15-9:30pm on July 10,14,21,28, August 7 & 14. There were 12 students the first night. The first four classes were instructional and the sixth class was informational on FM radio basics, APRS, satellite, and digital modes the students can operate on. Classes were at the Memphis Police Department Appling Farms Station precinct, 6850 Appling Farms Pkwy, Memphis. The instructors were Paul KA4X, Park AI5CY, Paul KY4MX, John KN4BVH, Perry N4GJ, Joe WA4OVO, Steve KK4VPT, and KX4QF.



John KN4BVH instructing on chapter 9, Safety
Photos by Joe Lowenthal WA4OVO

Perry N4GJ teaching chapter 6, Modulation

The fifth class on August 7th was a review of the 399 questions and answers in the FCC question pool with an opportunity to take the FCC exam. Ten students completed the classes. All 10 became Technician licensees. Congratulations to Jeff Cline KQ4KKS, Joe Krause KQ4KLH, Laura Meanwell KQ4KLI, Tayloe Nickey KQ4KLJ, Lorenzo Winners KQ4KLN, Randy Snodgrass KQ4KMR, Sean Faust KQ4KNI and Jay Simmons KJ5CFY who earned their Technician licenses. Additional congratulations to Herish Boyd KQ4KCH who tested early for Technician and then upgraded to General when the class tested.



Tech Class 3-23 Testing
Photos by Mary Jean Hall KY4FB

Tech Class 3-23 VEs Barry W5CJ, Eric WD5FTA,
Rick WA4NVM, Perry N4GJ and Joe WA4OVO

The Laurel VE Team provided the FCC testing opportunity. Thanks to Barry W5CJ, Eric WD5FTA, Perry N4GJ, Mary Jean KY4FB, Rick WA4NVM and Joe WA4OVO for being the VEs.



Joe WA4OVO presenting Joe KQ4KLH his CSCE with proud parents Stacy KJ4MDA and Jeff AJ4GY
Photo by Perry Hayes N4GJ

Rick WA4NVM on satellite SO-50
Photo by Joe Lowenthal WA4OVO



Rick KJ4NWQ helping on the satellite demo
Photos by Joe Lowenthal WA4OVO

Richard K4DXF aiming antenna with Rick WA4NVM checking azimuth direction

The equipment demonstrators were Joe WA4OVO, Rick WA4NVM/Richard K4DXF, Rick KJ4NWQ and John KN4BVH.

How to Print Your FCC License

1. Go to **<https://wireless2.fcc.gov/UlsEntry/licManager/login.jsp>**
2. Enter your FCC Federal Registration Number (FRN) and Password
 - a. If you do not know your FRN, go to Search box and click on License
Click on Amateur; Enter your callsign in Callsign box;
Your FRN is in center of page after your name
(If you do not know your Password, click on Contact Tech Support after Forgot your Password)
3. In When My Licenses screen comes up, click on **Now** in the green line reading “Change your paper authorization preferences [here](#), or download your official electronic authorizations now”
4. In Under Download Authorizations screen, highlight your callsign in the My Authorization area at the bottom left.
5. Click on ADD to right of the highlighted callsign.
6. Highlight your callsign in Authorization to Download and then click on Download on bottom right of screen.
7. If pop-ups are blocked, click on Allow One
8. Click Open at bottom and Print your License.

INDIVIDUAL EMAIL ADDRESS IN QRZ
Submitted by Joe Lowenthal, WA4OVO

Consider going to QRZ.COM and log in. Then enter your email address on their QRZ page so other hams can contact you vial email rather snail mail. Anyone looking for email addresses has to log in to QRZ to be able to see the ham's email address.

ARRL Benefits

ARRL amateur radio community. When you renew, a few of the benefits you will enjoy are:

- Digital access to all four ARRL publications -- QST, On the Air, and QEX. QST is the official membership journal of ARRL or On the Air aimed at helping new and emerging radio communicators get active and on the air, QEX covering topics related to radio communications experimentation, and National Contest Journal (NCJ), covering radio contesting.
- Access to ARRLs Technical Information Service to assist with technical problems and help with your projects.

To secure these amazing members-only benefits and many more in the coming year, visit www.arrl.org/join/WE1 to renew or call us toll-free at: 1-888-277-5289 (US Only) , Monday Friday, 8 a.m. to 5 p.m. ET. International members call (860) 594-0338. **If you join or renew through Delta Club, the club receives a commission. For new ARRL members or expired membership over 2 years there is a \$15 commission; for renewals a \$5 commission** ARRL Application.pdf

ARRL MEMBERSHIP COMMISSIONS
Submitted by Joe Lowenthal, WA4OVO

In 2022 ARRL revised their membership commissions to ARRL clubs that process individual ARRL memberships through the club. The club can receive \$15 for new memberships or renewals of past ARRL memberships over two years old. Current renewals generate a \$5 commission. Current ARRL members can renew/extend their ARRL membership at any time. If you renew early, your ARRL membership is extended for the renewal period from the expiration of your current ARRL membership. The club only gets \$5 for each renewal application no matter how many years being renewed.

Here is a link to the ARRL membership renewal form.

[ARRL-Membership-Application.pdf](#)

Fill it out and bring a check made payable to ARRL to the meeting or mail to the Delta Amateur Radio Club at PO Box 342768, Bartlett TN 38134-2768. Or, you can pay Jim Martin KD4FUU in cash at a meeting. Even though credit card information is on the application, the Delta Club does not want to have access to credit cards so we will not accept an application with a credit card information for payment.

Also, here is a link to the Delta Club Membership Application:
[application-15-3.pdf \(wsimg.com\)](#)

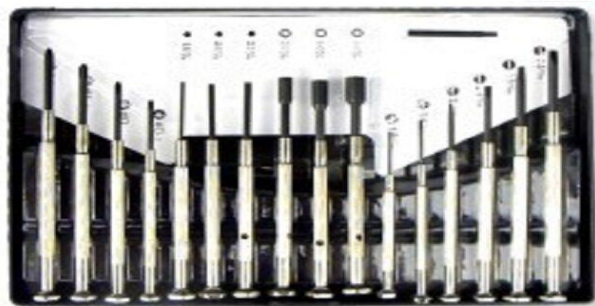
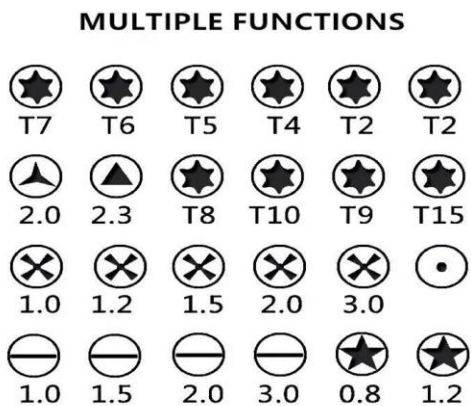
Packet Update

By: James Butler KB4LJV

Many times we have to work on new equipment to upgrade or repair. This equipment uses really small screws to hold them together. The head style on the screws can also be different depending on the brand. Having a good set of small screwdrivers makes a great addition to your

tool set. Most of these kits, called “jewelers screwdriver set,” have different sizes and head styles. Some kits offer one single handle with a number of plug in tips for all the different styles of screws. Some kits offer the most common screw sizes and styles and have small socket head drivers for electronics equipment. A 15 to 25 piece set will cover most of the styles of screws you will encounter. The screwdrivers can be found in plated steel, stainless steel, plastic, and brass. If you are looking for a set go to Ebay and do a search for “jewelers screwdriver set”.

James Butler
KB4LJV

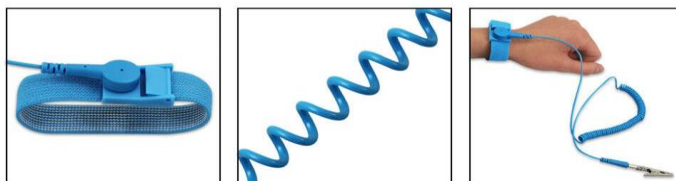


Amateur Hardware Update
By: James Butler KB4LJV

When working on most modern equipment one of the problems we can have is static electricity buildup. New IC chips have internal traces that are so small a static discharge can burn traces and

cause a failure. Even if your chip survives a static discharge the electronics inside can suffer damage and cause premature failure of the device. What we want to do is make sure we have the tools we need to work on this type of equipment safely. The antistatic mat is conductive and has a wire connection to give you a ground connection. Another good tool is the antistatic wrist strap which has a wire to connect to ground which prevents static buildup on you body as you move around. The connection to ground is not a direct connection. The connection has a 470K resistor in line to constantly bleed off static charges. If you work on modern electronic equipment antistatic tools can keep static from causing problems. Go to Ebay and do a search for “Antistatic mat” and “Antistatic wrist band”.

James Butler
KB4LJV



**Amateur Radio Emergency Service (ARES)
Emergency Coordinator (EC) - John Reiners KN4BVH**

If you are interested in joining Shelby County ARES, complete an application at <https://www.tnares.com>. Click (do not pull down) on INFORMATION on the top right of the page. Next, go to TN ARES Membership and Appointment Application Forms and then click

on ARES Membership Application: FSD-98. Complete the form and click SUBMIT at the bottom of the page. You should get an acknowledgment soon after submitting.

YL News

Submitted by Mary Jean Hall, KY4FB

The YL Net is every Saturday at 8:45 pm. We normally meet on the 146.820 frequency, which has a PL tone of 107.2 Hz. We are currently meeting on a secondary frequency, which is on the 443.700 W4BS repeater. This has a +5 MHz offset and a PL Tone of 107.2 Hz.

We encourage all YLs and OMs to check in with us on the YL Net!

Sparks Newsletter and Delta Club Information

SPARKS is published monthly by the Delta Amateur Radio Club and emailed to club members. All information published in this newsletter is provided as a service. While every reasonable effort has been made to ensure accuracy, neither the Delta Amateur Radio Club nor its officers assume any liability resulting from errors or omissions. All correspondence may be mailed to:

Delta Amateur Radio Club *P.O. Box 342768 * Memphis, Tennessee 38134-2768

Please note that you must provide your name and call sign if you're requesting specific actions or personal follow-ups, and also be aware that any profane or mean-spirited comments will be unceremoniously discarded without consideration.

Delta Club Members Can Like Us/Follow Posts On Facebook!

Go to <https://www.facebook.com/darcmem>.

2023 Board of Directors

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 901-522-6711

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Steve Frazier, KK4VPT
sfrazier1@bellsouth.net
 901-218-6385

Repeater Trustee

Barry McDonald, W5CJ
W5CJ@ARRL.NET
 901-853-0510

Upcoming Events

For more information go to <http://hamcalendar.com/>

September 30, 2023: Bluff City Blues Bike Ride, Shelby Forest
 October 14, 2023: A Day in the Park

Memphis Area VHF/UHF Nets

Name of Net	Frequency (MHz)	Offset/Tone	Local Time	Day of Week
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Mid-South Bullfrog Net	146.535	[simplex]	7:30p	Daily
Delta Club Info Net (Primary)	146.82	-(107.2)	8:00p	Daily
Delta Club Info Net (Secondary)	443.7	+(107.2)	8:00p	Daily
Crittenden ARO	147.15	+(107.2)	7:30p	Sunday
Sunday Super Niner Net	927.6125	-(146.2)	8:30p	Sunday
Elmer Net	444.175	+(107.2)	9:00p	Sunday
Desoto County EMA	146.91	+(107.2)	8:30p	Monday
MedMERS Net	146.82	-(107.2)	12:00p	Wednesday
Tipton ARS	145.49	+(100.0)	7:30p	Thursday
Crittenden ARO	442.4	+(107.2)	8:00p	Thursday
Olive Branch ARC	147.255	+(79.9)	8:30p	Thursday
Linked	444.7	+(107.2)	8:30p	Thursday
ARES Training Net	146.85	-(107.2)	9:00p	Thursday
TN Statewide DMR Net	Digital – DMR		8:00p	Friday
Four-Forty Net	443.7	+(107.2)	8:30p	Friday
YL Net (Primary)	146.82	-(107.2)	8:45p	Saturday
YL Net (Secondary)	443.7	+(107.2)	8:45p	Saturday

TENNESSEE HF NETS

Net Name	Freq. MHz	Local Time	Day of Week
Tennessee CW Net	3.563	7:00p	Daily

Tennessee Slow CW Net	3.682	7:30p	Tue-Sun
Tennessee Alternate Phone Net	7.238		As needed
CUSEC	3.810		As needed
CUSEC	7.180		As needed
(Center for United States Earthquake Consortium)			

3980 kHz – Tennessee Phone Net

Mon-Fri - 5:40 AM, 6:45 AM & **5:30 PM** (5:30 pm beginning Nov. 9 evening)

Saturday - 8:00 AM & 5:30 PM

Sunday - 8:00 AM only

Holidays - 8:00 AM only

DELTA CLUB ADVERTISEMENTS

DELTA AMATEUR RADIO CLUB

**P.O. Box 342768
Memphis, TN 38134-2768**

DARC Meeting: Second
Tuesday of every month
at Ellendale Church of Christ
7365 Hwy 70, Bartlett TN



W4BS REPEATER SYSTEM
146.82- 147.36+ (107.2Hz tone)
224.42- 443.20+ (107.2Hz tone)



Joe Miller
Owner

Chick-fil-A Paragon Place
6282 Poplar Avenue
At Poplar and Massey
Memphis, TN 38119
W - 901.766.1875
C - 901.230.3043
Joe.Miller@cfafranchisee.com
chick-fil-a.com



Hamsource

Quality Accessories for the Shack and Field

John Kalotai, N1OLO
Owner

456 Long Hill Avenue
Shelton, CT 06484

203-556-8700

john@hamsource.com
<http://www.hamsource.com>

DELTA CLUB EQUIPMENT
PRICING of Equipment by DESCRIPTION

09/08/23

<u>New</u>	<u>eBay</u>	<u>Sell Price</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model</u>	
	\$55	\$50	Amplifer, VHF	Kenwood	VB-2530	144MHz w/manual
\$120		\$30	Amplifier Tuning Pulser II	Ameritron	ATP-102	w/manual
\$42		\$25	Antenna Bracket, mobile	Diamond	K-400	
		\$15	Antenna Coil, HF	Texas Radio		
		\$5	Antenna Dipole Center			
		\$20	Antenna kit, Low Power w/insulator, 2 clamps, 1 round connector & 1 shrinkwrap 70ft long wire			
		\$15	Antenna Mast 25"			3/8"x24x25" black
		\$15	Antenna Mobile 6M	Hustler	RM-6	18-1/8"long
\$26		\$15	Antenna Mobile 6M	Hustler		52-1/4" long
		\$20	Antenna Mobile 6M	Wilson		The Silver Load
		\$15	Antenna Mobile CB			Rust color 50-8/8"
		\$15	Antenna Mobile CB	Firestik		61-1/2" long
\$769 / \$307		\$650	Antenna Mobile HF	Tarheel	200-A-HP	w/MT3 OFB base
		\$15	Antenna Mobile HF 10M	Transel Tech	THF10	
		\$15	Antenna Mobile HF 10M	Transel Tech	THF10	
\$30		\$15	Antenna Mobile HF 17M		17M	New
\$50		\$30	Antenna Mobile HF 40M		40M	New
\$45		\$25	Antenna Mobile HF 60M	Hustler	RM-60	
\$70	-	\$45	Antenna Mobile HF 75M		75M	New
\$39		\$20	Antenna Resonator 40M	Hustler	40M	
		\$20	Antenna Sensor, Remote			2KW
		\$20	Antenna Sensor, Remote			2KW
		\$20	Antenna Sensor, Remote			2KW
\$70		\$35	Antenna Top Hat Loop	Cameleon		
		\$25	Antenna UHF 440	Cushcraft		
\$51		\$45	Antenna VHF Rubberduck	MFJ	MFJ-340	SO-239
\$90		\$60	Antenna VHF Vertical	Hustler	G3-144	5.15dBi SWR 1.6-1.2-1.7

<u>New</u>	<u>eBay</u>	<u>Sell Price</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model</u>	
\$25	-	\$15	Antenna VHF/UHF	MFJ	MFJ-1713S	For Japanese SMA radios
\$130		\$90	Antenna VHF/UHF Vertical	Diamond	X-200A	6.0/8.0 dB, SWR 1.9-1.1-1.5 both bands
		\$5	Antenna, handheld	Comet	B-10	
\$122	\$70	\$50	Antenna, VHF/UHF	Larsen	NMO-2/70B	
		\$5	Antenna, Whip			48-1/4" long no base
\$150	\$80	\$75	Artificial Ground	MFJ	MFJ-931	
		\$30	Audio Generator	EICO	377	Sine/Square Wave
\$29		\$15	Battery Pack	Talent Cell	YB1203000-USB	
\$59	\$67	\$35	Battery Protection	Victron Energy	BP12/24 100	100 amp protection
		\$5	BatteryCharger, Float	Chicago	41288	
		\$15	Bumper mount	Kenwood	VP-1	
		BO	Capacitor, tuning			
		BO	Capacitor, tuning			
		BO	Capacitor, tuning			
		BO	Capacitor, tuning			
		BO	Capacitor, tuning			
		BO	Capacitor, tuning			
		\$10	CAT Interface Cable	Vertex	CT-6Z	
		\$10	Coax RG-213	Cable-X		5 ft 8"
		\$15	Coax RG-213			11ft 7"
		\$5	Coax RG-58	Consolidated		4ft BNC connectors
		\$15	Coax RG-58			19 ft
		\$10	Coax RG-58			11 ft 9"
		\$10	Coax RG-58			10 ft
		\$10	Coax RG-58			10 ft
		\$10	Coax RG-58 A/U	MFJ	MFJ-5806	6 ft new
		\$5	Coax RG-58/U	Belden	8240	4 ft 11"
		\$5	Coax RG-58/U	Belden	8240	4 ft 5"
		\$10	Coax RG-58A/U	MFJ	MFJ-5812	12 ft new
		\$10	Coax RG-58A/U	MFJ	MFJ-5806H	6 ft new
		\$10	Coax RG-58A/U	MFJ	MFJ-5806H	6 ft new
		\$5	Coax RG-58A/U	Tandy		2 ft
		\$5	Coax RG-58A/U	Tandy	E91090	3 ft
		\$15	Coax RG-8/U	Amphenol	Polyfoam Low Loss	6 ft
-	-	\$10	Coax, 8X	ACA	ACA-PP9MC	9ft w/ PL-259
		\$1	Coax seal			
		\$1	Connectors, RF	Misc		Many @ \$1
		\$2	Cord, 12V DC Extension			10ft
		\$5	Cord, HDMI			

<u>New</u>	<u>eBay</u>	<u>Sell Price</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model</u>	
		\$25	Dummy Load, 1000 watt	Bird Termaline	8020	
\$55		\$15	Earbuds, wireless	Beben	X8	Bluetooth 5.0
	\$30	\$15	Filter HF, Low Pass	Drake	TV-3300LP	80dB atten 1000 watts
\$55		\$25	Filter, Audio, Kit	SOTA Beams	BOXA-Dual	BOXA-100
\$495		\$300	Filter, DSP	TimeWave	DSP-59+	Works perfectly/ good condition
		\$35	Filter, Intermod	Tucker	TF-144	50w max
\$120	\$90	\$65	Filter, low pass	MFJ	MFJ-704	1.5KW in box
\$130		\$50	Filter, low pass	AEA	LPF-30	30MHz 1500 watts
	\$30	\$20	Filter, low pass	Drake	TV-3300-LP	1000 watt/ 80dB max below 30MHz
		\$50	Frequency Counter, Digital	Heathkit	IM2420	
		\$25	Frequency Counter, Digital	Archer	277-111	KB4KA
	\$150	\$100	Generator, Sine Wave	Loftech	TS-1	
N/A		\$25	Headphone	Compuc Cessory	CCS59224	Noise cancelling w/soft case
\$40		\$20	Headset	Sennheiser	HD 202	
\$165		\$75	Inverter, 1000 watt	Xantrex	B11500582	New
\$220	\$139	\$125	Key CW	Bencher	Chicago	Chrome w/1/4" phono plug
\$98	\$85	\$65	Key CW	Te-Ne-Ke		w/ black base
		\$25	Keyer	MFJ	MFJ-8043	
\$70		\$50	Keyer CW Memory	Unified Microsystems	XT-4	out of stock at mfg
\$220	\$100	\$100	Keyer Paddle, Electronic	MFJ	MFJ-422B	
\$66		\$50	Lightning Arrestor	Alpha Delta	TT3G50	N female, new
\$66		\$50	Lightning Arrestor	Alpha Delta	TT3G50	N female, new
\$16		\$5	Manhattan PrototypingKit#2	QRPme.com		
		\$1	Metal Box			
		\$5	Meter, Amp 0-200 uA DC			
		\$5	Meter, Amp 0-50 uA DC	Midland	23-227	
		\$5	Meter, Panel, DC, 0to15 volts	Archer	270-1754	
		\$5	Meter. Panel, DC, 0to50u A	Micronta		
	\$100	\$85	Microphone	Kenwood	MC-50	
		\$5	Microphone	Icom	HM-23	
		\$5	Microphone, handheld	MFJ	MFJ-285	

<u>New</u>	<u>eBay</u>	<u>Sell Price</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model</u>	
		\$15	Microphone, mini			Mini plug, no switch w/ pcb board
\$130		\$70	Morse Code Tutor, LCD Display	MFJ	MFJ-418	
\$30		\$15	Paddle Switch	Whitebrook	MK-43	
		\$3	Plier Snap Ring			
		\$10	Power Box,DC, 8 push plugs/2 screw terminals			
		\$40	Power Outlet, DC	MFJ	MFJ-1112	
\$51		\$35	Power Strip, 120V, 7 outlets	Wiremold	PM48C	
	\$100	\$75	Power Supply	Vista	X-R	
\$140	\$65	\$45	Power Supply	Astron	RS-12A	S/N 310663
		\$15	Power Supply	Vista	III-R	3A
	\$12	\$10	Power Supply	Icom	BC-25U	120v – 12v 1.25a
		\$1	Power Supply, 12v	Netgear		2.5A wallwart
	\$16	\$10	Power Supply, wall wart	Westell	085-200010	120v – 12v 1.25a
		\$1	Power supply, wallwart		KY-12V61	
\$224	\$100	\$90	Power Supply/Charger	Inteli-Power	9100 PD9130L	30 amp
		\$10	Relay	DowKey	Kilovac H-19 SZ	
		\$10	Relay	DowKey	Kilovac H-19 SZ	
	\$56	\$50	Rotor Control	CDE	T²X	
		\$50	Rotor Control	CDE	T²X	
\$35		\$25	Sound card, external	StarTech.com	ICUSBAUDIO 2D	new in box
	\$51	\$50	Speaker	Kenwood	SP-520	
\$57	\$40	\$40	Speaker, 12 watt	Vertex	MLS-100	
\$76.56		\$50	Strut, Channel, slotted	McMaster-Carr	3230T26 aluminum	2pcs, 4 ft long
		\$20	Substitution Box, Capacitor	Heathkit	IN-47	
	\$35	\$20	Substitution Box, Resistor	Heathkit	IN-37	
		\$15	Switch, Coaxial	Automate	RF-0146	
		\$15	Switch, Coaxial	Sentry		3 position
		\$5	Switch, foot, metal			
		\$20	SWR Meter	EF Johnson	250-849	500 watts
		\$10	SWR Meter	Micranta	21-525A	
		\$15	SWR Meter	Continental Elect	CM-52	
		\$10	SWR Meter	Micranta	21-525A	
	\$150	\$75	SWR power meter	Para Dynamics	PDC550	3 meters: SWR/ RF Power/ modulation

<u>New</u>	<u>eBay</u>	<u>Sell Price</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model</u>	
	\$15	\$5	Thermometer, Indoor-Outdoor	MFJ	MFJ-152	Display dull
		\$10	Transceiver, CB	Pace		23 channel
		\$10	Transceiver, CB	JC Penney		23 channel
\$5		\$5	Transceiver, HF 40M Kit	Pixie		7.023-7.026MHz
\$250		\$150	Transceiver, HF,QRP,CW	MFJ	MFJ-9200	6 bands DVB-T+DAB+FM+SD R
	\$150	\$150	Transceiver, HF,QRP,CW	YouKits	HB-1A	3 bands assembled
\$299		\$225	Transceiver, HF,QRP,CW	YouKits	HB-1B	Assembled w/wall power supply/4 bands
		\$5	Transceiver, VHF	Regency	123A	34/94 crystals
	\$280	\$275	Transceiver, VHF/UHF	Icom	IC-51A	
	\$290	\$175	Transceiver,HF,QRP,CW	Wilderness Radio	NorCal 40A	Assembled w/printed manual
		\$10	Transformer, AC	Mci	4-49-9603	In 115V/Out 12-14-18VAC
\$95		\$70	Transformer, RF Impedance	MFJ	MFJ-907	1000 Watt SSB
	\$27	\$15	Transistor Checker	Heathkit	IT-27	
	\$155	\$125	Tuner, HF	Kenwood	AT-200	
		\$90	Tuner, HF	LDG	Z-817	New,0-20 watts
\$114	--	\$100	Tuner, HF	LDG	Z-100	used