

# W9JOZ

Volume 8, Issue 3

March 2018

## Next Meeting is March 15, 2018

**DUES ARE DUE FOR 2018**

**Still \$12.00**

Weekly 2 meter Net

Once again we are having the Saturday Night Net at 8:00 pm on the 145.410 repeater. Hope you can check in and let everyone know what you are up to now that winter is almost here. Or here depending on how you look at it.

Thanks  
John W3ML



Meetings are at the Henry F. Schricker Library on the third Thursday of each month, with the exception of December.

The library is located on west Culver Road, two blocks west of Highway 35.



Are you on the air?

Richard, K9QA is an official ARRL DXCC Card Checker. Contact him at [k9qa@arrl.net](mailto:k9qa@arrl.net) to have your cards checked.

DX Century Club

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# March Events

## Birthdays

8th - Joe - AA9YQ

## Starke County Amateur Radio Club Weekly 2 Meter Net will be on each Saturday at 8:00 p.m. Central time.

DAY OF WEEK: Saturday 8:00 p.m. Central time

HOST: KN9OX Repeater

FREQUENCY: 145.410 - 600

PL TONE: 131.8

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## Renewing Your License

Here is the info on how to renew your amateur license.  
You might want to file it away somewhere for use sometime in the future.  
K9ILU

Step 1) Go to the ULS database and do a search for your license:  
<http://wireless2.fcc.gov/UlsSearch/searchLicense.jsp>

Step 2) Write down the FRN Number..or copy it to paste later..

Step 3) Scroll down towards the bottom of the page and on the line that says ULS Online Systems, click on ULS Online Filling.

Step 4) Enter you FRN from step 2 in the box that says FCC Registration Number. If you do not have your password, follow the instructions just below that box that says Forgot you password? and click on the link that says Contact Tech Support. Yes, this part can take a couple of days, but once you have it, write it down somewhere. , you will need it again in 10 years.

Step 5) Once you actually get to the ULS Online Filling, and login.  
You will see in the big box under MY Licenses.  
You can click the option to renew, but only if you are within the 90 day window.

If your license has already expired but it has been less than 2 years, you can still renew your license without having to take your tests all over again. But of course, you cannot be on the air until your license renewal has been processed.

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# Scholarships

We have parents and grandparents who know about student plans and MARCO has some money. There are also ARRL scholarships. Info is in QST. One is another from MARCO (total 2) but there are more with different requirements.

Scholarships are motivation for HS students interested in studying the healing arts to get licensed. Get our future MDs, dentists, nurses, pharmacists, veterinarians, EMTs, radiology techs, and more excited about being radioactive!

If they have a ham license, they can apply for a scholarship

Contact Dr. Richard Lochner at <mailto:k9qa@arrl.net>.

73, Rich, K9QA

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## Heathkit SB-220 2 KW HF Ham Radio Amplifier

The Heathkit SB-220 has two 3-500Z, amplifier.



I never ran it at full output, usually stayed around 1200-1500 watts out.

Asking \$600.00 cash. Pickup only.

Contact John W3ML at [w3ml@w3ml.com](mailto:w3ml@w3ml.com) 574-772-2772

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## Spratly Island

International Amateur Radio Team will be active from Layang Layang Island (Swallow Reef) Spratly Island during March 6-13, 2018 as **9M0W**. QSL via YT1AD.

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# Republic of Equatorial Guinea

Annobon (prefix 3C0, Clublog's most wanted #47, IOTA AF-039)

Bioko (prefix 3C3, Clublog's most wanted #57, IOTA AF-010)

**Dates of operation:** 28<sup>th</sup> of February (obtained license) – 27<sup>th</sup> of March (airplane tickets home)

**Callsign:** 3C0W, 3C3W

**Operators:** YL2GM, YL1ZF (ex.YL3AIW), YL2KL, ...

**Minimal support requirements for logo/call on QSL card:** 100\$

**Expedition website:** [http://www.lral.lv/3c0w\\_3c3w/index.html](http://www.lral.lv/3c0w_3c3w/index.html)

For news, updates and pictures please keep checking our website.

3C0W/3C3W team

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## New Valparaiso Repeaters

6 Meters 53.570 - shift with 173.8 PL Transmit on 52.570

Just so everyone is on the same page -

The standard split for a 6m repeater in that frequency range is -500KHz, however, the N9IAA repeater is actually on a -1MHz split, so you'd be transmitting on 52.570.

2 Meters 147.105 + shift

This repeater is digital, supporting:

DMR, D-Star, P25 and C4FM

The DMR info can be found at [dmr-marc.org](http://dmr-marc.org)

P25 simple repeat (will be linked to the p25 network eventually)

D-Star info will be listed with the d-star people

C4FM is not yet configured.

The multi-digital repeater is still in what I would consider experimental mode. If something is not working as it should please let me know.

73, Joe N9TAX

Greetings Fellow Indiana Hams,

I am pleased to announce that the 2018 ARRL Indiana State Convention will be hosted at the Indianapolis Hamfest this year. The Indianapolis Hamfest will be on July 13th and 14th at the Marion County Fairgrounds located at 7300 E Troy Avenue in Indianapolis. You can learn more about the hamfest by visiting [www.indyhamfest.com](http://www.indyhamfest.com).

The State Convention is an opportunity to learn about what is going on around the state from many of our ARRL volunteer leaders. The ARRL Emergency Preparedness Manager, Mike Corey KI1U, will be in attendance for the convention and speaking at one of the forums. Mike is a native Hoosier from the Kokomo area. The ARRL Central Division Director, Kermit Carlson W9XA, will also be on hand to answer questions.

I hope you are able to attend the convention this year and look forward to speaking with many of you.

Please share this information with fellow hams that may not be ARRL members.

73,  
Brent  
N9BA

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## Collins Lovers

[Collins SC-101 COMPLETE RARE Console for 75A-4 & KWS-1 With Antenna Switch box & Cable Duct in original Crate](#)

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# Handy Hint

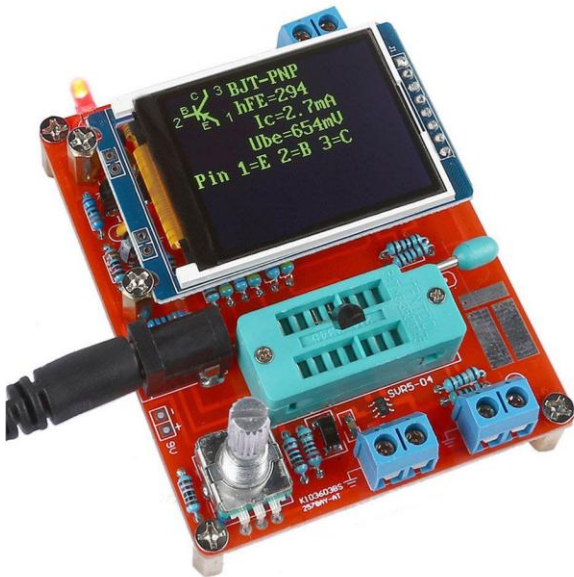
## Check those components before installing

By Steve Mollman-KD9HL

These days of so many third world sourced components, it isn't unusual to find an occasional piece that isn't up to spec or even has failed completely. While not frequent it does happen. Before building a new project or repairing an older piece, it is advisable to check the new component before installation. Doing that can save you a lot of grief trying to troubleshoot when your project doesn't work.

Most of us have a multimeter which allows basic checks of resistors, diodes and often capacitors. But what other components? NPN and PNP transistors, N-channel and P-channel MOSFETs, diodes, triodes, resistors, capacitors, chokes or other devices. Our favorite on-line auction site, eBay, has an economical solution.

Do a query for a "Mega328 ESR Transistor Resistor Diode Capacitor Mosfet Tester" and up will pop numerous examples ranging in price from \$5 to \$25. Some are assembled while others you must put together (an easy job-no SMDs!). Most come without a case but there are cases available on the auction site. Some have added features and can be used as a signal generator or frequency counter (very limited range). All seem to be powered by a standard 9 volt battery.



While certainly not a laboratory grade instrument, some of the typical features are (features vary between vendors):

- automatic detection of NPN and PNP transistors, N-channel and P-channel MOSFET, diodes, triodes, resistors, capacitors or other devices.
- Can detect the transistor, MOSFET protection diode amplification coefficient and the base to determine the emitter transistor forward biased voltage
- Measure the gate and gate capacitance of the MOSFET threshold voltage
- Display is LCD with backlight
- Powered by 9V battery
- Boot voltage detection
- Automatically tests the pins of a component and displays on the LCD
- Measures the gate threshold voltage and gate capacitance of the MOSFET
- Measure bipolar transistor current amplification factor and base-emitter threshold voltage
- Automatically detect NPN, PNP bipolar transistors , N -channel and P -channel MOS FET, JFET , diodes , two diodes, thyristors small power unidirectional and bidirectional thyristor.
- Automatic identification of a component's pin arrangement
- Measuring bipolar transistor current amplification factor and base - emitter threshold voltage
- Via the base - emitter threshold voltage and high current amplification factor to identify Darlington transistors.
- Can detect bipolar transistors and MOS transistors protection diodes
- Measure the gate MOS FET threshold voltage and the gate capacitance
- Can simultaneously measure two resistors and resistor symbol is displayed. Displayed on the right with a decimal value of 4 . Resistance symbol on both sides shows the pin number. So you can measure the potentiometer. If the potentiometer wiper is not transferred to an extreme position, we can distinguish the middle and both ends of the pin
- Resistance measurement resolution is 0.1 ohms, 50M ohms can be measured
- Can measure capacitanceCan measure capacitance of 30pF-100mF, resolution 1pF
- .2uF more capacitors can simultaneously measure the equivalent series resistance ESR values. The two can be displayed with a decimal value, resolution 0.01 ohms
- Can be in the correct order and the diode symbol display two diodes, and gives the diode forward voltage
- LED is detected as a diode forward voltage higher. Combo of the LED is identified as two diodes

- Reverse breakdown voltage is less than 4.5V Zener diode can be identified
- Can measure a single diode reverse capacitance. If the bipolar transistor connected to the base and collector or emitter of a pin, it can measure the collector or emitter junction reverse capacitance
- Can be obtained with a single measurement rectifier bridge connection
- One-button operation, automatic shutdown to avoid unnecessary battery drainage
- Short detection time: only 1.7 seconds. (It is normal to take 1 minute for bulk capacitor detection)
- Display: 128 \* 64 LCD
- Item Weight: 1.7oz

Using one of these handy gadgets can potentially save you a lot of grief while also identifying unknown components and verifying values.

*β 73's and good DX β*

We have several **new** pieces of equipment for sale on our For Sale Page <http://www.w9joz.org/forsale.htm>  
Please check it out.

Free: 3 Motorola-type Mobile Radios - one is set up to work cross-band 2-440 others are in the 2 meter or 440 meter band. Will not ship.

Email John at <mailto:w3ml@w3ml.com>.

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If you have something for the newsletter, please send it to me before the 20th of the month.

See you at a meeting.

73  
*John*, W3ML

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