

"KAR" *Kansas Amateur Radio* "KAR"

November 2010 issue



Hi gang, My health is still sliding down hill. Interest in KAR as a **state wide** newsletter is at a all time low, especially among our ARRL Ks officials.

◆ My wife shares this one. Here is a great under water video! If you click on the little gray box in the upper right corner just above the video, it will allow you to make the picture bigger.

DO IT! It's worth it.

Watch the octopus at the end. It will blow your mind! Enjoy, I sure did!

THIS IS FANTASTIC!!!!

http://www.ted.com/talks/david_gallo_shows_underwater_astonishments.html

◆ Orlan,

I hope you and the doctor work things out! Another good KAR covering KØEQH's birthday to the great looking fall scene at the end. Cliff's notes look great and are appropriately named! I did manage to work 9 of the Route 66 stations, it's always a fun event. The B-25 video was great to watch as well. The first VE session at the South Pole was a history making event at which we stood by and watched on the HQ end. <http://www.arrl.org/news/the-weather-outside-was-frightful-during-first-antarctic-ve-session> .

Keep the word processor going!

73,

Chuck, KØBOG – ARRL Hq.

◆ What is Packet Radio? <<http://www.choisser.com/packet/>>

◆ From WA0OFM, Tim; he was visiting a club down in Texas while he is working there. Here is a video from the ham guys down there in Mesquite. They posted **a video of a 40 meter delta loop**: <<http://www.youtube.com/watch?v=kG11sJoXqsE>>

This was sent to us by Tom, WA0OFO, for which we say THANK YOU! Larry WØAIB.
from "LL" Larrys List.

◆ Testing a 40M Delta loop. http://www.youtube.com/watch?v=opY_6-eq6uU&NR=1

◆ Can not remember if I sent out this info or not but here it is. Our old web site for ARES was www.zone13a.com The new web site is www.ksalpha1ares.com. The web page has been re-designed and now is up and running. Since the web page is just going on line we do have a few bugs and clean up to do, but all in all it's working very well and will have more changes as we go.

73's Steve WAØVRS EC Alpha 1 ARES Kansas

- ◆ Link Updates
- ◆ **Kansas ARES:** <http://ksarrrl.org/ares>
- ◆ **Kansas ARES - County Listing:** <http://ksarrrl.org/ares/alphaks.html>
- ◆ **Kansas ARES - Districts :** <http://ksarrrl.org/ares/distks.html>
- ◆ **KS ARES Printable** map to any size: <http://ksarrrl.org/ares/printit> - available in PDF only
- ◆ KAR newsletters>>> <http://ksarrrl.org>
- ◆ Kansas Section News >>> <http://www.arrrl.org/Groups/view/kansas>
- ◆ Ks ARES.>>> <http://ksarrrl.org/ares>
- ◆ Ks ARES map>>> www.cenkares.org
- ◆ Ks QSO Party>>>www.ksqsoparty.org
- ◆ Newton ARC>>>www.newtonarc.org
- ◆ Ks Skywarn>>>[Skywarn www.ict-skywarn.org](http://www.ict-skywarn.org)
- ◆ The Midwest Division July Newsletter <http://www.arrrlmidwest.org/pdfs/arrrlnwd-july2010news.pdf>
- ◆ Keep up with the world of ham radio, >>>> <http://www.arrrl.org/>
- ◆ KC ham information >>> http://www.kchams.net/larrys_list.html
- ◆ Midwest Division Home Page>>> <http://www.arrrlmidwest.org/>
- ◆ **NF9L** Kansas City page <http://kcHamRadio.com>
- ◆ To download and view the World Radio Online, go to the CQ home page at www.cq-amateur-radio.com and click on the "WorldRadio Online" box.

73, Orlan wØoyh UR KAR ed and ARRL Ks Ast. Section Mgr. w0oyh@arrrl.net

ARRL KS SECTION MANAGER - Ron KBØDTI kb0dti@arrrl.org

Nothing for KAR this month.
See the KSN web pg.

ARRL KS SECTION EMERGENCY COORDINATOR - Bob KØBXF



ONov 01, 2010
From the desk of KØBXF
ARRL SEC KS

September ARES activity totals reported 15 Zones 100 net sessions 616 ONI and 31 QTC.

SATERN reports 4 net sessions and 63 QNI for their Kansas activity.

Kansas Army MARS reported 417 man hours of operation and 167 messages originated.

RACES for KANSAS: 2 net sessions 22 QNI and the following Counties represented: Linn, Wyandotte, Mitchell, Riley, Dickinson, Finney, Miami, Barber, Shawnee, McPherson, Johnson, Leavenworth, Phillips, Neosho and Montgomery.

Remember 2 sessions each month now, help WD0DMV recruit reps from more counties to QNI.

Winter weather is nearing, you know how Kansas gets when it gets cold and wet. Watch/listen more often for your fellow Hams out there on the roadways, lend a hand if needed, then report the activity to your EC/DEC/SEC/SM and of course to W00YH and the KAR publication.

A number of requests for various things has been announced this past year with little or no response. Review if possible and play catch-up a bit, Please.

73 **Bob Summers K0BXF** ARRL SEC KS
RSUMMBXF@aol.com

◆ **KS ARES Printable** map to any size: <http://ksarrl.org/ares/printit> - available in PDF only

You can find Bob on the Kansas Sideband Net on 3920 kHz at 6:30 pm most evenings.

KANSAS RACES OFFICER – Joseph WDØDMV



Hi All. Now that the clocks have been set back an hour, leaves are falling from the trees, and the temperature has dropped below the freezing mark at least once, Fall is here with Winter closing in on us. I hope all you have checked out your antennas and are prepared for the cooler months of Ham radio. It seems to me, as the nights get longer and colder, the radio signals get better. A great time to do a little DXing beside the heater in the shack. Remember to mark your calendars for the first Thursday and third Tuesday of each month for 7:00 pm (1900) local time and check in to the Kansas RACES net on 3940 KHz. We need your County represented. Hope to hear you on

one or both of the nets this next month. Happy Thanksgiving to all, as we all have much to be thankful.

73

Joseph WDØDMV

Kansas RACES Officer

The **RACES Net** meets on the first Thursday and third Tuesday of each month at 1900 local time on 3940 KHz.

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RACES report for Tuesday Oct 19, 2010

The following stations were heard:

KBØDTI	Linn County	
WBØWEQ	Johnson County	
KD7QOR	Leavenworth County	
ACØE	Finney County	
WAØLXV	Dickinson County	
NØLL	Smith County	
WDØDTH	Johnson County	
WØYW	Linn County	
KDØEZS	Greeley County	
WØWBI	Anderson County	
WØOQA	Scott County	
KCØYMH	Miami County	
WDØDMV	Shawnee County	
AAØX	Linn County	Net Control

11 Counties 14 QNI Ø QNI

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RACES report for Thursday Nov. 4, 2010.

The following stations were heard:

KBØDTI	Linn County	
NYØT	McPherson County	
AAØX	Miami County	
WAØCCW	Mitchell County	
AAØOM	Phillips County	
WAØLKV	Dickinson County	
KØBXF	Wyandotte County	
KDØAKT	Marshall County	
WDØDMV	Shawnee County	Net Control

9 Counties 9 QNI Ø QNI

73, Joseph WDØDMV
State RACES Officer
wd0dvm@yahoo.com

The **RACES Net** meets on the first Thursday and third Tuesday of each month at 1900 local time on 3940 KHz.

Around our Section

Some time back you sent a message that had to do with mobile operation.

My late friend, Walt Patterson, WB0LNH, of Albert, KS once worked as an engineer for KGNO in Dodge City. His original 0 district call was a 1 x 3 , however Walt had to live with the newer 2 x 3 call which he earned when he overlooked renewing his license for 9 months and the FCC required Walt to take a new test : hence, a new call. Walt received a lot of kidding about his lapse of 9 months, op w/o a license.

Anyway, Walt had a rather hefty mobile set up: a Johnson Viking 1, powered by a surplus dynamotor - I don't recall the receiver, but Walt told me that the ham gear set up was bolted to a board or shelf mounted in the back seat of his car. I recall seeing this setup. The antenna was a whopper, all 13 foot of it from the base to the capacity hat on the top. It was center loaded with a big bug catcher B & W coil.

The commute to work was fairly long, at least an hour's drive from Albert to Dodge. This day the beginnings of a blizzard with its accompanying wind was blowing. Part way to Dodge his engine started missing. When he pulled over the engine ran normally. This action occurred several times. Walt said he thought about the tall antenna, stopped, and clipped the top of the antenna to a bracket on the rain gutter. Sure enough the car ran smoothly.

Larry I passed this on to you as you can encounter some unusual experiences in this hobby of Amateur Radio.

73 - DAVE WØCFL

Orlan,

Thanks for passing that on, yes I remember Walt well, he put Albert, KS on the map with his radio shop there. He was a terrific guy. I didn't realize he drove back and forth to Dodge. He did like to experiment with antennas and operating mobile. I was trying to remember his original call, something like WØNTS I believe.

73, Chuck, KØBOG - ARRL Hq

~~~~~ KANSAS SILENT KEYS ~~~~~

I have not received any SK reports this month and remember if you know of a SK let our SM kb0dti know. TU Orlan

## QKS – The Kansas ARRL CW Traffic Net

Net operated daily at 7 and 10 pm on 3547 kHz. 7 pm is the out going tfc into the NTS system and in coming at 10 pm. You are welcome to check in with or without tfc. Our manager is

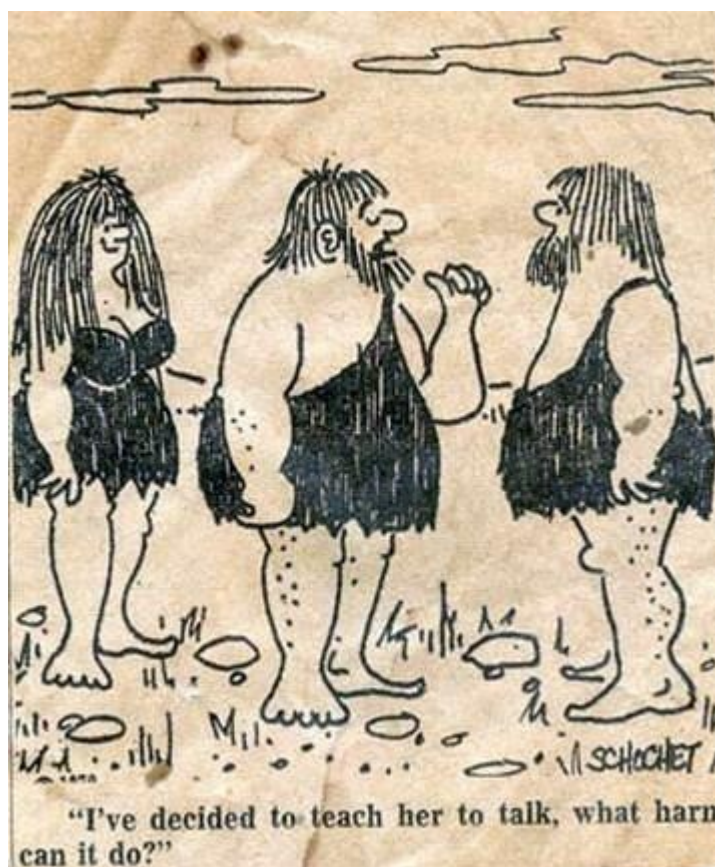
**James, NBØZ**

I am Net control on Monday, Fridays and Saturdays at 10 PM. Been doing that for 30+ years... Orlan

HA - HA - HA - HA - HA - HA - HA - HA - HA - HA - HA - HA - HA - HA



**Adam's Original Sin**



"I've decided to teach her to talk, what harm can it do?"



A take on an oldie but goody...

During the Texas QSO Party as I was driving around in the Piney Woods of East Texas, on one back road I saw a sign in front of a broken down shanty-style house: "Talking Dog for Sale."

Well, I needed a break so I stopped to see what the deal was. I went into the backyard and saw a nice looking Labrador Retriever sitting there.

"You talk?" I asked.

"Yep," the Lab replied.

Well, after I got over the shock of hearing a dog talk, I asked "So, what's your story?"

"Ah, heck there isn't much to tell. Is that a Tarheel screwdriver antenna on your truck out there?"

"How did you know that," I asked?

The Lab looked up and said, "Well, I'm a ham radio operator. I got my Ticket when I was a young pup and in no time at all I had my 5 band DXCC in Phone

and CW.

"The CIA heard about me and asked me to do some spy work for them. I would hang around the communications centers and with my keen hearing I could copy the CW transmissions.

"Because no one figured a dog would be eavesdropping, I was one of their most valuable spies for eight years.

"But copying high speed CW all day really tired me out and I knew I wasn't getting any younger. So, I decided to settle down.

"I retired from the CIA (8 dog years is 56 CIA years) and joined a ham radio club. In fact I won first place in the Oklahoma OSO Party two years in a row.

"Then we had a mess of puppies and got out of Ham Radio for a while.

"I sure miss my radio. Why don't you buy me and I'll be one of your CW operators in the next Texas QSO Party."

I said "Let me see what I can do."

I went back in and asked the owner what he wanted for the dog. "Ten dollars," the guy said.

"Ten dollars? This dog is amazing! Why on earth are you selling him so cheap?"

"Because he's a liar!"

"He never did any of that stuff. He's a No Code Technician."

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Many thanks to Brian Scott, N0PGH, <[bscott433@gmail.com](mailto:bscott433@gmail.com)> for putting a smile on our faces.

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LarrysList mailing list  
[LarrysList@list.k0jpr.net](mailto:LarrysList@list.k0jpr.net)  
<http://list.k0jpr.net/mailman/listinfo/larryslist>

# Action around our Nation

Orlin Jenkins KØØJ in Colorado says

for the kid in all of us

Happy Halloween ! ! ! !

[Carve a Pumpkin \(click here\)](#)

## LETTERS TO THE EDITOR:

◆ Hi Orlan,

Sorry to hear that you are not in the best of health. I am hoping that it is only the medications that are causing this .

Take care

Doc

Maine.... The Way Life Should Be

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i do not even want to hear about that white stuff. the leaves are already dropping and turning. this is the best weekend up here to view them. have not turned on the furnace as of yet. maybe we can stretch it out another week or two. we shall see.

we have SET this weekend and this will be my first SET as an EC. should be interesting. i have attached our SET full scale exercise oplan to this email so you can have a look see and see what goes on up here in the great northwoods of maine.

Doc

Maine.... The Way Life Should Be [Here is a guy who tried to get away from KS by moving to Maine](#)

◆ One of the real contributors in the Kansas Section is Kent Stutzman, KBØRWI, <[kb0rwi@sbcglobal.net](mailto:kb0rwi@sbcglobal.net)>. Kent hosts several web sites which includes a most remarkable site, <<http://ksarri.org>>. [See more of Kent's URLs above on page 1.](#)

If you are interested in any amateur radio subject in Kansas, you MUST visit this site! It is OUTSTANDING!

It is listed on Larry's List amongst several near the end of the regular "events" list usually sent out

weekly, but there are so many sites there, that I think it could use this special mention.

73,

Larry Staples, W0AIB

◆ Larry,

This is one of the better websites I have found on packet radio:

<<http://www.choisser.com/packet/>> **Yep, it is a gud one!**

The information was compiled many years ago, but packet remains much the same as it was back then, with the exception of new packet activities like Winlink. This website is a very good introduction to basic packet radio. Further investigation by Jeremy on Winlink and APRS would be worthwhile.

Please forward my email address to Jeremy. I operate N0VX-10, one of several Winlink packet email gateways in the area and I operate several APRS stations using Xastir, UI-View, and APRS Point. I'd be glad to answer any questions Jeremy might have.

Michael Johnson, N0VX

<[n0vx@winlink.org](mailto:n0vx@winlink.org)>

<[michaelkjohnson.nws@gmail.com](mailto:michaelkjohnson.nws@gmail.com)>

◆ Larry,

Heard you and Mike talking about a map locator site. I found this one.

<<http://www.vanityhq.com/index-hamlocator.html>>

Richard Fretwell, W0KRF

[W0KRF@arrl.net](mailto:W0KRF@arrl.net)

Lee's Summit, MO

THANK YOU, RICHARD!

◆ The November 2010 edition of **WorldRadio Online magazine** is live and posted free at: <http://www.worldradiomagazine.com/>.

This edition is full of interesting features and columns including:

- \* YLs Across the Bands and the Globe
- \* A Primer on Gray Line Propagation
- \* The Single Life: A Simpler Way of Keying
- \* Krusty Ol' Kurt Looks At Sleeves, Halyards and More
- \* All Hands On Deck: Vintage Gear Called Into Action

In addition, you'll find regular columns including: QCWA, Propagation, Trail-Friendly Radio, Rules and Regulations, Hamfests and Special Events,

Contest Calendar and DX Predictions.

◆ This from Orlin KØOJ in Colorado. [PARTS BY THE THOUSANDS,](http://www.danssmallpartsandkits.net/)  
<http://www.danssmallpartsandkits.net/>

**TU Orlin , Orlan**

◆ VE6AB - "Whatever Your Doing"

<<http://www.youtube.com/watch?v=-UyzEGgjMVs>>

Paul A. Passman, WBOBBC

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Sent to us by Tom Smith, WA0OFO, <[wa0ofo@hotmail.com](mailto:wa0ofo@hotmail.com)>

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LarrysList mailing list

[LarrysList@list.k0jpr.net](mailto:LarrysList@list.k0jpr.net)

<http://list.k0jpr.net/mailman/listinfo/larryslist>

## Tom's Key-Strokes - WØEAJ Denver, Co. Displaced Kansas neighbor.



Let us all pause to recall those who inspired us to excell. If nothing else, to recall those selfless radio operators who often were the last aboard a sinking ship, or stayed behind to "get the message out". They gave US our legacy - so, at 1100 on 11 November, stop what you're doing - a QRX if you will - take a minute and thank those who gave of themselves for the country's freedoms we daily enjoy..

...and if you're ONE of those - Welcome Home!

Tom Dailey - WØEAJ  
"another US Navy Radioman"  
<[daileyservices@qwest.net](mailto:daileyservices@qwest.net)>

◆ In the opening paragraph of Tom's Keystrokes, you forgot to put in the part about WHO I'm talking about... "Gateway Electronics" in Saint Louis.

and while you're at it - give a plug for where Brian works too... they always seem to HAVE what I need, when I go there.... no backorders... they just hand it to you.

TC

(Here's an ORIGINAL QSL Card from the GRAND OPENING of the Paul Revere Net - back on 4th. July, 1976)

Issued by none other than the Grand OM himself: **Beryl Masters - WBØEJJ**

◆ **An often misunderstood subject is** *"which adaptor should I use with a PL-259 for a particular coax cable?"*

**Actually, the first line should have read..... (when they thought that 80 MHz really WAS UHF!)....**

Now, understanding that PL-259's came about in the EARLY THIRTIES (when they THOUGHT that UHF really was above 80 MHz), that's why they're called a "UHF connector", but it's a HORRIBLE connector at UHF. Why the manufacturers continue to use these things is beyond me. "N" connectors and "BNC" types are so much better.

That being said. here's which one to use with which:

RG-58/U (52 ohm) use the UG-175 adaptor  
RG-59/U (75 ohm) use the UG-176 adaptor  
RG-8/U (52 ohm) No adaptor required  
RG-8 mini (52 ohm) Use the UG-176 adaptor  
RG-11/U (75 ohm) No adaptor required  
RG-6/U (75 ohm) Commonly used as Cable TV coax - typically using aluminum wire in a 20% shield, OVER aluminum foil - it's not usable with PL-259's  
RG-174/U (52 ohm) Extremely small - very lossy - NOT usable with PL-259's and except for very short runs, is NOT recommended.

One of these daze [sic], I'm gonna make a YouTube on how to PROPERLY make up PL-259's with adaptors, as it seems that not many folks seem to know this.

Tom - WØEAJ

◆ ALLIED catalog pages, featuring KNIGHT KITS - harkens back to those daze of youth and yesteryear. <http://myweb.msoe.edu:80/reyer/knight-kit/>

Tom

◆ <http://myweb.msoe.edu/reyer/knight-kit/allied.jpg>

◆ [http://www.realpageslive.com/skin/entrymap/entrymap\\_att.asp?SkinId=7.4.3.1](http://www.realpageslive.com/skin/entrymap/entrymap_att.asp?SkinId=7.4.3.1)

At last - a REAL phone directory with REAL pages. You can pick either White or Yellow - type in the LAST name (first), then first and MI.

Sorry, it doesn't cover all states, but it beats the heck out of DEX and some other worthless

telco search-engines.

Tom



◆ Wanna build a portable oscilloscope? Wanna put one into something? The prices are right, and they work quite well. <http://www.jyetechnology.com/en/default.php>

◆ Ahhh, basking in the glory of having dealt a winning blow to the National NC-57B receiver, in getting it going again, I turned to the next task for the bench. My very dear friend Hunter, KØGFY (formerly WB9NJB) has owned a beautiful National NC-125 receiver for quite some time, that decided to join the "silent service". I repaired it once-upon-a-time, by replacing a couple of bypass capacitors (remember, this baby uses TUBES, kids) and a 4.7K resistor that feeds B+ voltage to the RF amplifier, but this time it had no local oscillator, nor mixer section. Injecting LO signals didn't make it come alive, but from the mixer output circuit ON... it was okay.

First order of business was to haul up the B&K 500 tube tester, and check the "valves", as my British comrades call them (when you think about it, it makes sense.. especially based on how tube theory was originally taught). Pretty soon, after a couple of "very tired" 6SG7 (IF amplifier) tubes were found, I discovered that the 6SB7-Y "converter" tube had no filament continuity. That explains why I had NO mixer OR local oscillator - see this type of tube has both in one "envelope", so when I lost the "heater", I got nuthin at all. National used this tube a lot in their late 40's and early 50's designs, as it eliminated one tube, one socket, a handful of components, and the labor to put it together, while keeping the basic functions of a superhetrodyne receiver that normally used TWO separate tubes for

these functions.

I replaced the RF amplifier, two IF amps, the 5Y3 rectifier, and the converter, and she played again. Now for the "recapping" adventure. For the new folk out there, the older receivers used a lot of wax & paper capacitors. These were interlaced foil & paper caps, which were dipped into wax to "seal" them. [ *Hallicrafters used the dreaded "BBOD's" - Black Beauty of Death caps - they look like large color-coded resistors, and are nearly ALWAYS split and/or bad* ] Over the years, they've nearly ALL gone bad, and become "leaky". It was also found, over the years, that the foil can actually grow "whiskers", which will punch through the paper dielectric material, and ultimately DEAD SHORT the cap. In solid-state equipment this results in many symptoms, but in a "hollow-state" radio, these dead-shortened caps, can (before acting as their own "fuse") result in a burned-in-two winding in a power transformer; these are often made of "unobtainium". THAT is why we "shotgun" the caps and replace them all - caps are cheaper than power transformers.

My preferred brand/type of capacitors are the Vishay/Sprague "Orange Drop" type. These are made of very good components, dipped in an epoxy sealant, and are impervious to most conditions for many, many years. I buy mine from MOUSER ELECTRONICS (cheap plug, there), but you can also get them from the fine folks at ELECTRONICS SUPPLY CO, right there in KC. Other providers carry them, as well. Typical values encountered in "boat anchor" receivers are .001, .01, .02, & .1 microfarad, as well as .05 microfarad (.047 is okay to sub). Typical voltage ratings are 400v to 600v - you can install HIGHER voltage rating devices, but NEVER lower.

National, Hammarlund, Hallicrafters, Morrow, Multi-Elmac, and other companies made their receivers to work for a very long time - as such, the original capacitors (they were called "condensers" back then) were put in to STAY THERE. Getting the old ones out, so you can stick new ones in, can be a bit of a trial. Good techniques use a FULL-SIZED solder-sucker, a HOT iron of enough wattage, and some tools like SMALL needle-nosed pliers, a sharp scribe, and a lot of patience. Sometimes, in spite of your best efforts, you simply can't get the old cap-lead out of a terminal strip or tube socket tab... so cut off the old cap-lead, but leave enough to solder the NEW lead, onto. It's sort of hokey, but done properly, it still looks nice, and has good mechanical and electrical connection. One of the BIGGEST discoveries you'll make is just HOW SMALL those new caps are, compared with the OLD ones. [ New resistors are like this - the OLD half-watt resistors are as big as the NEW two-watt components - keep this in mind, when restoring "size-concern" components where the leads have to go a bit more distance ].

Okay - Here's where I make some of you MAD, while the rest of you LEARN SOMETHING VALUABLE. Never, never, never, never..... NEVER.... solder a NEW cap (especially electrolytics) ACROSS the old cap. You just end up with the same old bad garbage STILL IN THERE! Yeah, yeah, I know... many, many books showed this technique, and sometimes you got lucky, but IT'S A BAD IDEA - SO, DON'T DO IT.

Often, the caps you're replacing are bypass-to-ground components. Quite often, you DON'T HAVE TO run the leads to the same ground, rather find one that's a shorter distance to a ground point than the original part (remember, they're smaller too). On ELECTROLYTICS - pay attention to the polarity - as my old buddy BERT (WØUTS in Minneapolis, KS) and I discovered, back at KING RADIO CORP, backward marked electrolytics, and those just stuck in backwards, can get pretty "theatrical", right Bert? Sometimes, I'll even take a red "Sharpie", and color the (+) lead, so I don't get it mixed up. NOTE: WHEN REPLACING ELECTROLYTICS IN BIAS CIRCUITS, REMEMBER THAT'S NEGATIVE VOLTAGE, SO THE (+) GOES TO GROUND!!!!. I often leave the original "can type" electrolytic cap mounted on the chassis (for looks), but cut off the lugs, underneath. Use a pair of terminal strips to hold the new caps, and wire them as indicated. The radio will look original, but play like new.

After replacing all the new caps, I'd suggest an alignment (yeah, there's THAT word again). Bypass caps won't make much difference, but if you changed some in the RF, Oscillator, or mixer sections - there's a good chance it changed the resonant point of a particular L-C combination.

That's about all for now, but in case you think that OLD stuff didn't work better than new stuff - yeah, my ICOM IC-756 PRO II does amazing things, but this old National, made in about 1951, shows sensitivity of "readable CW" at .040 microvolt - that, my good friends, is VERY respectable.

Dit Dit



◆ **Fun with 555 timer chip circuits** <http://www.555-timer-circuits.com/>

◆ TV REMOTE CONTROL

JAMMER Circuit <http://www.555-timer-circuits.com:80/tv-remote-control-jammer.html>

◆ **If this kid's school has a science fair, HE should win it.... of course, Dad helped.... way cool.** <http://newsfeed.time.com:80/2010/10/13/father-son-team-launch-balloon-with-hd-camera-iphone-into-space/>

◆ Designed to clean carbs, et. al., but I can see it's use for tube-shields, chassis, and other components in a restoration. [http://www.aircooledtech.com:80/tools-on-the-cheap/soda\\_blaster/](http://www.aircooledtech.com:80/tools-on-the-cheap/soda_blaster/)

Tom Dailey WØEAJ



◆ Last time I was in KC, I picked up an old SWAN 500C transceiver (like I used for YEARS, from '71 till '86) from ASSOCIATED RADIO. It was on their "previously owned" shelf, and I got it for a good price. I've since totally recapped the power-supply (in all my experience, I've NEVER seen electrolytics get THAT bad), so last night I decided to try it out.... had all the "volts" except nobody turned the LIGHTS on!.... no filaments; no pilot lamps.... Drove me nuts, trying to figure out where the 12.6vac went, as it was ON the transformer, and was coming OUT of the P/S, but I couldn't see it at the transceiver plug.

This morning, while drinking my coffee in the heated shop (*it's one of those morning rituals that I and Teddy the Wonderdog enjoy*), i poured over the schematics, as SWAN did some theatrical stuff with voltages & connections going IN AND OUT of plugs from the PS to the Radio, and back again, and it hit me - Hey! What if the GROUND wire had broken off somewhere? Quickly donning my Silent Key Stepdad's binocular head magnifier (they're made IN Kansas City), I gazed at the multi-pin Jones Plug connector that goes to the radio, and Joila' - sure 'nuff - the ground wire, over many years of twisting and turning, had finally given up the ghost and broken off of the pin.

Yep.... troubleshooting ONE SIDE of a voltage usually works, but sometimes you have to go into THE DARK SIDE, too.

Dit Dit - Tom



TU Tom for all of the great stuff..... Orlan

**KAR**

[w0oyh@arrl.net](mailto:w0oyh@arrl.net)

The **K**ansas **A**mateur **R**adio

[w0oyh@arrl.net](mailto:w0oyh@arrl.net)

**KAR**