

Last Updated: 4/12/2021

Kenwood service and technical support:

N9HE – Steve, AZ, Email: n9he@quarked.com

WB2KNR – Jim, NJ, Email: jimlamanteer@yahoo.com

AK4AA – David Lyndon (Old Ham Dave), La Plata, MD, Email: ak4aa36@gmail.com, Web: <http://oldhamdave.com/> * (Also TS-940)

W0NTA – Dick, Greeley, CO, Phone: (970)381-6768 Email: dick@w0nta.com, Web: <http://www.w0nta.com>

K9TW – Terry, MI, Phone: (269)663-8943 Email: wagstw46@aol.com, Web: <http://www.k9tw.com>

~~WA8SAJ – Jeff, OH – Phone: (440)951-6406, EMAIL: wa8saj@ncweb.com, Web: <http://wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm> * (No Longer Doing Service)~~

HamRepair.com - Cal Fisher – TX, Phone: 214.476.5107, E-Mail: info@HamRepair.com, Web: <http://hamrepair.com/>

N0BXE, Affordable Radio Repair, Mike Alexander, Florence, CO, E-Mail: mike@affordableradiorepair.com Web: <http://www.affordableradiorepair.com/>

K6ARU, Turner Radio, Lancaster, Calif., 616-945-9097 Email: k6aru@cwo.com, Email #2: k6aru@att.net

WD0FKC, Midwest Technical Services, Watertown, Sdak, Phone: 605-882-1706, Email: tcmoes@yahoo.com, Web Page: <http://www.midwest-technical.com/>

KC9INK, Walley, Indianapolis, IN, Does local repair work only, Phone 317 823 9380, E Mail wallydoc@yahoo.com, *(Also TS-940)

K7ZS – Kevin Lahaie, Hillsboro, OR, Email: kevin@k7zs.com *(Also TS-940's)

Burghardt Radio Repair, Watertown, SD, Phone: (605) 886-7314, Email: service@burghardtradiorepair.com, Web: <http://www.burghardt-amateur.com/> *(Also TS-940's)

WB0CJB, Paul Kemp, Columbia, TN, Email: pckemp4@hotmail.com (Works on most Hybrid Kenwoods, Drakes, Kenwood, etc.)

KD7DNY, Mesa, AZ – Walter Dilley, Email: walter.dilley@gmail.com web: <https://kd7dny.com>.

N0BXE – MIKE Alexander – Affordable Radio Repair, Florence, CO Email: mike@affordableradiorepair.com web: <http://affordableradiorepair.com/>

Radio Smith - Steve Yudell, Clearwater, FL – Email: radiosmith@verizon.net

Technotronic Dimensions, Bennington, VT., Web: <http://www.technotronic-dimensions.com/KW-ssb-repair.html#contact>, Email: service@technotronic-dimensions.com

Kenwood Parts:

K4EAA – KEN - EMAIL: ken@k4eaa.com, Web: www.k4eaa.com

Kenwood Hybrid Restoration & Repair, KE7OAY, Jim Showker, Oregon Email: jim@hybridrestore.com Web: <http://www.hybridrestore.com/>

KD7DNY – Walter Dilley, Email: walterdilley@gmail.com Web: <https://kd7dny.com/>

(Bought all of Bob Mansker, KE5TTF inventory)

East Coast – Phone: (800)632-3323, Web: <http://www.kenwoodparts.com/parts/index.php>

Radio Boatanchor Parts: TEL: 207-942-5745 xfrms@roadrunner.com Web: http://tubes_tubes_tubes.tripod.com/index.html

PacParts Inc., Phone: 800-421-5080, Web: <http://www.pacparts.com/>

Nationwide Radio & Eq. Sales LLC, Mark Olson "President", 1490 Norfield Rd, Suamico, Wi. 54173, Email: ke9pq@new.rr.com Phone: (920) 434-8097 Web:

Parts Description:

Band Switch Coupler:

1. K4EAA – KEN - EMAIL: ken@k4eaa.com, Web: www.k4eaa.com
2. Kenwood Hybrid Restoration & Repair, Email: jim@hybridrestore.com Web: <http://www.hybridrestore.com/>
3. East Coast P/N: D22-0409-05 - (L5) NYLON COUPLER R-5000 TS-830S TS-820S R-1000 www.eastcoasttransistor.com



TS-520, TS-820, TS-530, TS-830 Flat Pack RL1:

1. K4EAA – KEN - EMAIL: ken@k4eaa.com, Web: www.k4eaa.com
2. Kenwood Hybrid Restoration & Repair, Email: jim@hybridrestore.com Web: <http://www.hybridrestore.com/>
3. Online Components, Web: <http://www.onlinecomponents.com/keywordsearch.aspx?text=nf4eb-12v>



TS-530, TS-830 Antenna Relay RL1:

K4EAA – KEN - EMAIL: ken@k4eaa.com, Web: www.k4eaa.com



TS-520, TS-820 Antenna Relay:

1. Kense Electronics, Web: <http://www.kenselectronics.com/> P/N: 401013-S term 12VDC replace MH4P-12VDC in T599D, TS520S, TS820
2. Kenwood Hybrid Restoration & Repair, Email: jim@hybridrestore.com Web: <http://www.hybridrestore.com/>



HYBRID High Voltage Capacitor replacement kits: (These are Nichicon 150uF @500VDC caps.)

1. K4EAA – KEN - Web: www.k4eaa.com
2. Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>
3. Mouser Part # 647-LGN2H151MELC25. Web: <https://www.mouser.com/>
4. Allied Part # 70249746. Web: <https://www.alliedelec.com/>
5. Newark, Part #27T9817, Web: <https://www.newark.com>
6. Digikey, Part # 493-4352-ND Web: <https://www.digikey.com/>



Misc. Items:

TS-520 & TS820 Remote VFO dummy plug or VFO cable. Web: <http://www.hybridrestore.com/>

TS-830 Rectifier board relay – Source unknown at this time...

TS-940 Relay Omron G6E134P-ST-US-DC12 , Digikey Panasonic part # 255-1473-ND

TS-520, 820, 530, 830 Drive Sprockets, email: NR6C@roadrunner.com , Web: <http://nr6c.com/sprocket.htm>

TS-520/820 Paddle Switch Handles, KF7QGU, eBay user: id_dude, Search for “Kenwood Paddle Switch Handles” .

TL-922 upgrades, Kessler Engineering LLC, Ph: 937-458-3173, email: don@KesslerEngineeringLLC.com, Web: www.KesslerEngineeringLLC.com

TS-830&530 Remote VFO Cable Kit, Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>

HYBRID High Voltage Capacitor replacement kits, K4EAA – KEN - Web: www.k4eaa.com and Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>

HYBRID Power Cords, Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>

HYBRID Cabinet Screw Kits, K4EAA – KEN - Web: www.k4eaa.com and Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>

HYBRID Final Cage Repair Kits, K4EAA – KEN - Web: www.k4eaa.com and Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>

HYBRID Band Switch Padder 'S' Series Capacitors, Web: <https://www.vishay.com/capacitors/list/product-28515/>

HYBRID Cabinet Feet, Kenwood Hybrid Restoration & Repair, Web: <http://www.hybridrestore.com/>

HYBRID SK Fets and Transistors, Phone: 800-543-3568 –Web: <http://www.ceitron.com/>

6146 Key Guide Fix, <https://reverb.com/item/2465597-6-pieces-vacuum-tube-octal-socket-saver-missing-broken-guide-key-fix-repair>



GR181658 RADIO CASE CUSTOM MANUAL MATCH				
CCEXCOLORANT	02	32	64	128
W1-White	-	11	-	-
B1-Black	-	17	-	1
R2-Maroon	-	1	-	-
Y3-Deep Gold	-	9	-	1
G2-New Green	-	-	1	-
QUART	-	-	-	DEEP
R41W01353	-	-	-	650902729

Cabinet Paint:

ACE Hardware, Rust Stop Spray Paint, Machine & Implement, Ford Gray Gloss, Item# 082901171393, <https://www.acehardware.com/>

Sherwin-Williams, Quart of Paint for rolling or have them put into spray cans.

FOAM PRO 82 2 Inch roller applicator [https://www.amazon.com/FoamPRO-82-Finish-Coater-](https://www.amazon.com/FoamPRO-82-Finish-Coater-Roller/dp/B000W9QEELS/ref=sr_1_4?keywords=foampro+2%22+roller&qid=1551644065&s=gateway&sr=8-4)

[Roller/dp/B000W9QEELS/ref=sr_1_4?keywords=foampro+2%22+roller&qid=1551644065&s=gateway&sr=8-4](https://www.amazon.com/FoamPRO-82-Finish-Coater-Roller/dp/B000W9QEELS/ref=sr_1_4?keywords=foampro+2%22+roller&qid=1551644065&s=gateway&sr=8-4)

FOAM PRO 00083, 2" replacement rollers [https://www.amazon.com/FoamPRO-00083-FOAM-PRO-](https://www.amazon.com/FoamPRO-00083-FOAM-PRO-Pack/dp/B000WA6DWC/ref=sr_1_6?keywords=foampro+2%22+roller&qid=1551644065&s=gateway&sr=8-6)

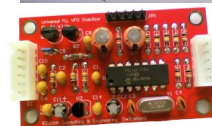
[Pack/dp/B000WA6DWC/ref=sr_1_6?keywords=foampro+2%22+roller&qid=1551644065&s=gateway&sr=8-6](https://www.amazon.com/FoamPRO-00083-FOAM-PRO-Pack/dp/B000WA6DWC/ref=sr_1_6?keywords=foampro+2%22+roller&qid=1551644065&s=gateway&sr=8-6)

VFO STABILIZER:

1. Cumbria XLOCK – **No longer in business.**

2. K4DPK VFO Stabilizer - PHILLIP W CHAMBLEY, 28 E CAMELIA RD NE, ROME, GA 30161, Email: k4dpk@comcast.net

3. ELcon – 3510 Konolfingen, Switzerland, Model: EL-34, Web: <https://shop.elcon.ch/yaesu/universal-fl-vfo-stabilizer-el-34-2.htm>



TUBES (6146B & W) & 12BY7:

1. **ESRC Vacuum Tubes**, 6424 Pinecastle Blvd, Suite B, Orlando, FL 32809 Phone: 407-826-5808, Email:

CustomerService@ESRCVacuumTubes.com Web: <http://esrcvacuumtubes.com/>

2. **RF Parts** – San Marcos, California, Email: Terry@rfparts.com , 435 South Pacific Street, San Marcos, California 92078, Phone: (800) 737-2787, 760 – 744-0700 Web:

<http://www.rfparts.com/?gclid=CJPr0Jf04cECFYdzMgod9woAgg>

3. **Surplus sales of Nebraska** – Email: grinnell@surplussales.com, Phone: (402) 346-4750, Web: <http://www.surplussales.com/Collins/CollTubeSpecials.html>

Misc. Items of Interest:

INRUSH CURRENT LIMITERS

How to protect old electronics using these devices in series with the AC power line to give a "soft-start" when powering up, protecting filaments, bulbs, transformers, etc.

Amphenol CL-90 - Mouser Part #527-CL90 inrush current limiter 2A 120ohm. Good for radios that draw 50-200W from the AC line.

<https://www.mouser.com/ProductDetail/Amphenol-Advanced-Sensors/CL-90?qs=sGAEpiMZZMuqZeNK75brD%2FrjMwDFP8g44mfeB5jiKPE%3D>

Amphenol CL-80 - Mouser Part #527-CL80 inrush current limiter 3A 47ohm. Good for radios that draw 150-400W from the AC line.

<https://www.mouser.com/ProductDetail/Amphenol-Advanced-Sensors/CL-80?qs=sGAEpiMZZMuqZeNK75brD%2FrjMwDFP8g41yDjpP0KskI%3D>

Amphenol CL-70 - Mouser Part #527-CL70 inrush current limiter 4A 16ohm. Good for radios and transmitters that draw 300-600W from the AC line.

<https://www.mouser.com/ProductDetail/Amphenol-Advanced-Sensors/CL-70?qs=sGAEpiMZZMuqZeNK75brD%2FrjMwDFP8g4RH7wnG9KSE8%3D>

Amphenol CL-60 - Mouser Part #527-CL60 inrush current limiter 5A 10ohm. Good for radios and transmitters that draw 450-700W from the AC line.

<https://www.mouser.com/ProductDetail/Amphenol-Advanced-Sensors/CL-60?qs=sGAEpiMZZMuqZeNK75brD%2FrjMwDFP8g4OIkeLoshPUk%3D>

VARISTORS

These devices in parallel with the primary of power transformers are used to "snub" out spikes in AC voltages. When powering down a radio or transmitter, the collapsing magnetic field in the power transformer, with it's primary now an open circuit, can develop several thousand volts, potentially damaging the transformer winding insulation causing shorted turns. Or, more commonly, creating an arc in the power switch, eroding the contacts. They also protect a transformer from high AC line voltage spikes.

Littlefuse V150LA20AP Varistors - Mouser Part #576-V150LA20AP varistor 150VAC . Good for radios and transmitters that draw 450-700W from the AC line.

<https://www.mouser.com/ProductDetail/Littelfuse/V150LA20AP?qs=sGAEpiMZZMuQmL5N8lqpX7FeRK4mwJ%252B3nkm7f4odzzo%3D>

RFI SAFETY CAPACITORS

These capacitors fail-safe in the open mode compared to the older capacitors that fail shorted.

<https://www.mouser.com/new/vishay/vishay-safety-caps-resistors/>

Vishay Safety RFI Disc Ceramic Capacitor 0.0047uF/4700pF X1:440VAC Y2:300VAC 440VAC part number Y2472M49Y5US63L7 Mouser number 72AY2472M49Y5US63L7.

<https://www.mouser.com/ProductDetail/Vishay-BC-Components/AY2472M49Y5US63L7?qs=TL5Wro6K1ZB47iRZMX68Pg%3D%3D>