



Technical Information Exchange

No: 062

Last updated 3/4/14

By: Mark Gilger, WB0IQK

DRAKE PARTS, MATERIALS & RESOURCES

DRAKE WEB PAGES:

- ❑ WB4HFN, Ronald Baker: <http://wb4hfn.com>
- ❑ Drake Virtual Museum: <http://www.drakemuseum.com/>
- ❑ K3HRN, Thom LaCosta: <http://www.zerobeat.net/drakelist/>
- ❑ LA6OP, Sindre Torp: <http://home.online.no/~sindtorp/>
- ❑ Ham Manuals <http://www.hamanuals.com/>
- ❑ Ham Manuals <http://bama.edebris.com/manuals/drake/>
- ❑ Ham Manuals <http://www.hamradiomanuals.com/>
- ❑ Ham Manuals <http://www.mods.dk/>
- ❑ Ham Manuals <http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=7140>

DRAKE INTERNET EMAIL REFLECTOR:

The reflector is a vehicle for sending and receiving email messages to the entire Drake group. You will start seeing email that other Drake users are sending the group. You can submit email to the group by using the submission email address listed below. It's a great place to post wants and request for help.

- ❑ To Subscribe: majordomo@www.zerobeat.net - subscribe drakelist in body
- ❑ To Submit email: drakelist@www.zerobeat.net

YAHOO DRAKE RADIO GROUP:

The Yahoo group has over 800 active members. Lots of technical questions are asked and answered daily. <https://groups.yahoo.com/neo/groups/DrakeRadio/conversations/messages>

BLUE FILTER MATERIAL:

KG9BV – The prices are as follows for the TR-3, RV-3, TR-4 series, RV-4, TR-6, and all twins. \$8.00 first set-includes dial and meter bluing, and dial diffuser. \$5.00 per set thereafter up to 99 sets \$4.00 per set for orders over 100 sets. \$2.00 meter strip for T-4 reciter and wattmeter of C-4 console, \$1.00 for extra strips. \$2.00 for extra dial and meter bluing sheets for customer wanting darker shade. The prices for the 7-line are as follows, and include 2 dial and 2 meter bluing pieces so customer can adjust color to own preference. Single sheet of bluing will give original look, two sheets will be darker blue. \$4.00 dial and meter bluing for TR-7. \$2.00 dial bluing for RV-7, \$5.00 meter bluing for L-7. Steve Sever, 6242 E SR 244, WALDRON IN 46182, Phone: 765-525-6996, Email: KG9BV@Yahoo.com

WA9TGT - "BLUE" replacement dial filters, and Windows for the "Drake 4 Line A/B/C Twins", TR3, 4, 6 and TR7 series transceivers. Web Site: <http://www.2bradioparts.com/index.html> , Email:

2bRadioParts@gmail.com



REPLACEMENT TR-4 / TR-4C / TR-6 MODE INDICATORS:

WA9TGT – Mode Indicator lights. Web Site:

<http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com



DIAL GLASS WINDOW “RED” ADJUST PIN:

WA9TGT – Mode Indicator lights. Fits 2A/2B/2C, R4/R4A/R4B, TR3/TR4/TR6. Web

Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com



REPLACEMENT INTERCONNECTING CABLES FOR T-4X – R-4 SERIES:

Cables are used to interconnect the receiver and transmitter or other station accessories, like the MS-4 speaker. The cables are 36 inches long with molded RCA style connectors on both ends.

- MS-4 Speaker cable, Mouser P/N 172-1103.

- Gray interconnecting cables (Not the Injection cable), Mouser P/N 17FH101,

- Black interconnecting cables (Not the Injection cable), Mouser P/N 17-1101

- 1) *Mouser Electronics*, Phone 800-346-6873, Part Number: 606-CM53 Web:

<http://www.mouser.com/>

- 2) *National Radio & Eq. Sales LLC*, Sells complete sets only. Phone: (920) 434-8097 Web:

<http://marketplaceadvisor.channeladvisor.com/storefrontprofiles/default.aspx?sfid=86409>



REPLACEMENT INJECTION CABLE FOR T-4X – R-4 SERIES:

This cable made with all new materials, 38 inches in length, 52 ohm impedance, low loss foam center insulation, very flexible, with RCA style tip jacks on each end. All cables are professionally built and assembled and fully tested. To order contact RON BAKER at wb4hfn@wb4hfn.com. Web:

<http://www.wb4hfn.com/SALES/ForsaleHomePage.htm>



REPLACEMENT AC POWER CORDS FOR R4, R4A AND R4B:

A/C Power cord, Custom made for vintage radios. Brown or Black, Matte finish, 8 foot length, high quality, non-polarized. Bob's Antique Radio & Electronics, 111 East 29th Street, LaGrange Park, IL 60525, email:

RadioBob1@sbcglobal.net, Web: <http://www.radioantiques.com/>



CABINET SCREWS:

1. **WA9TGT** - Phillips Head, Black Machine Cabinet Screws, 6-32 Thread / 1/4" Length, Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

2. **McMaster-Carr Supply Company**, P.O. Box 7690, Chicago, IL 60680-7690, Black Oxide Finish Pan Head Phillips, Machine Screw 18-8 Stainless Steel, 6-32 thread, 1/4 inch length, (P/N 91249 A144). Phone: 330-995-5500, <http://www.mcmaster-carr.com/>



3. **Allen Martin** / W7APM, P.O Box 4177, Palmer, Ak. 99645. Packages of 25 at \$10.00, or packages of 50 at \$20.00, price includes shipping. For more information or to place an order by e-mail: w7apm@mtaonline.net, Allen Martin / W7APM, P.O Box 4177, Palmer, Ak. 99645

REPLACEMENT 2 & 4 LINE PANEL SPACERS:

WA9TGT - Replacement Front Panel to Sub-Panel Spacers. These spacers fit in-between the front outer panel and inside sub-panel. They are used to maintain the proper spacing between the front panel and sub chassis panel. Web Site:

<http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com



RUBBER CABINET BUMPER FEET:

1. **McMaster-Carr Supply Company**, P.O. Box 7690, Chicago, IL 60680-7690, Adhesive-Backed Bumpers, (P/N 95495K121). Phone: 330-995-5500, <http://www.mcmaster-carr.com/>
2. **WA9TGT** – Stick on Bumpers + Bumpers with studs. Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com



PANEL LAMP, #53, 14.4 Volt:

TR-7 & TR-5: Both the VFO and S-meter lamps are #53's....

1. *Radio Shack* Catalog No. 272-1117 (14.4 volts @ 0.12 am/bayonet base).
2. *Mouser Electronics*, Phone 800-346-6873, Part Number: 606-CM53
<http://www.mouser.com/>
3. **Nationwide Radio & Eq. Sales LLC**, Mark Olson "President", 1490 Norfield Rd, Suamico, Wi. 54173, Email: ke9pq@new.rr.com Phone: (920) 434-8097
Web: <http://marketplaceadvisor.channeladvisor.com/StoreFrontProfiles/default.aspx?sfid=86409>

PANEL LAMP, #1850, 5 Volt for the L4B:

1. *Mouser Electronics*, Phone 800-346-6873, Part Number: 606-CM1850 <http://www.mouser.com/>
2. *Replacementlightbulbs.com*, Web: <http://www.replacementlightbulbs.com/lamp12.html> ,
Phone: 800-692-3051
3. *Light Bulb Emporium*, Phone: 888-777-0649, Part# 756025,
http://www.lightbulbemporium.com/bulbrite_756025_12.asp

PANEL LAMP, #47, 6.3Volt:

1. *Pinball Life*, Chicago, Ill, Phone:773-202-8758
http://www.pinballlife.com/index.php?p=catalog&mode=search&search_in=all&search_str=47&x=83&y=15
2. Bob's Antique Radio & Electronics, 111 East 29th Street, LaGrange Park, IL 60525, email: RadioBob1@sbcglobal.net, Web: <http://www.radioantiques.com/>
3. *Hosfelt Electronics*, 2700 Sunset Blvd, Stubenville, OH 43952-1158, Phone: 800-524-6464. Part Number: 37-114. <http://www.hosfelt.com>
4. *Antique electronic supply*, 6221 S. Maple Ave, Tempe, AZ 85283, Phone 800-706-6789, E-mail: info@tubesandmore.com, Part Number: P47, <http://www.tubesandmore.com>
5. *Mouser Electronics*, Phone 800-346-6873, Part Number: 606-CM47 <http://www.mouser.com/>
6. *Superbrightleds.com*, BA9s-W4 White LED bulb for the TR-4 Lower & Upper lamps and BA9s-B Blue LED bulb for the dial and meter. <http://www.superbrightleds.com/> sales@superbrightleds.com

TR-4 RECEIVE CIRCUIT PROTECT LAMP:

(#12 Indicator Lamp, Bulb G-3 1/2, Miniature 2 Pin Base, 6.30 Volts, 0.150 Amps, 0.35 MSCP, C-6 Filament, Length 0.94 in., Dia. 0.43 in.)

1. *donsbulbs.com* , <http://www.donsbulbs.com/cgi-bin/r/b.pl/12|6.3v|0.15a~usa.html>
2. *Light Bulb Emporium*, Phone: 888-777-0649, Part# 756025,
http://www.lightbulbemporium.com/bulbrite_756025_12.asp
3. *Replacementlightbulbs.com*, Web: <http://www.replacementlightbulbs.com/lamp12.html> ,
Phone: 800-692-3051



R-4C AUXILARY REAR CRYSTAL & FILTER COVER:

Sherwood Engineering Inc., 1268 South Ogden Street Denver, Colorado 80210 USA
e-mail: robert@sherweng.com Phone: 303-722-2257 FAX: 303-744-8876 Web:
<http://www.sherweng.com/>

R4C & TR4C NOISE BLANKER DUMMY PLUG:

WA9TGT - Dummy Plug Must Be Used In The R-4C Receiver and TR-4C Noise Blanker Socket When The Optional 4-NB or 34-PNP Noise Blanker Is Not Installed.
Web Site: <http://www.2bradioparts.com/index.html> , Email:
2bRadioParts@gmail.com



DRAKE 'C' & TR-7 PTO Rubber Sleeve:

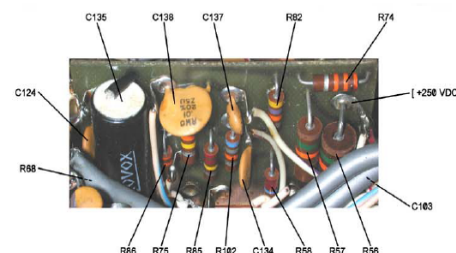
WA9TGT - "Replacement Rubber Sleeve" This rubber sleeve slips over the C-Line PTO shaft located behind the main tuning knob and dial skirt. The old rubber sleeves often become hard and non-pliable.



Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

DRAKE SERVICE CD'S :

Service Parts Locator for Drake 2B, 2-C/2-NT, B-Line, C-Line, TR-4, and TR-4C. Each radio comes on it's own CD. Go to Garey's web site for more detail. Garey Barrell, K4OAH, 10912 Virginia Forest Ct, Glen Allen, VA 23060-6503. e-mail:
k4oah@mindspring.com , Web: <http://www.k4oah.com/>



B-LINE CHROME CENTER REPLACEMENT FOR TUNING KNOB:

1. Spun aluminum inserts for the Drake "B" Line radios and TR4 transceiver. Listed below are a series of pictures of the new inserts and the last picture shows you how their installed. To make a purchase or for further information please e-mail at the link listed above or call me at 630-879-1132. Alan / KC9YS
2. Inlays for Drake B-Line are \$3.00 each. Charlie Talbott, 13192 Pinnacle Lane, Leesburg, VA 20176-6146 Phone: 540-822-5643 Email: k3ich@ar1.net



C & 7 LINE SPUN ALUMINUM CENTER INSERTS FOR MAIN TUNING KNOB:

I have a large quantity of spun aluminum inserts with clear epoxy coating available to fit several different radios. I have all of the various sizes to fit the Collins S-Line as well as the main tuning sizes for the Drake C-Line and Heath S-B Series. They are all new production and are in perfect condition, individually wrapped for shipment. I have shipped many of them and everyone is very happy with their appearance and ease of installation. For the Drake C-Line main tuning are \$3.00 each. Charlie Talbott, 13192 Pinnacle Lane, Leesburg, VA 20176-6146 Phone: 540-822-5643 Email: k3ich@ar1.net



KNOBS:

Alan / KC9YS, New Drake pointer knobs (with the set screw), individually for \$4 each or a set of 9 knobs including a new preselector knob for \$35. As you know, you can use these knobs on the plate and tune controls where there used to be a spring. The setscrew allows you to set the knob just slightly away from the panel to prevent paint damage. TR-4 & 'B' line main tuning knob \$20. These are New stock, not NOS. To make a purchase or for further information please e-mail at the link listed above or call me at 630-879-1132. Alan / KC9YS Email: kc9ys@sbcglobal.net



KNOBS:

Fred Freeman / N8BX, The original Drake R-4 and TR-7 Plastic knobs weigh in around 1 ounce.. These premium USA made knobs weigh 8 ounces and they tune just wonderful. A spinner makes for fast and easy QSY. It actually makes frequent band changes pleasant and you soon forget how long it takes going from each end of the VFO. This knob is for the ham that uses his radios daily and wants a beautiful weighted knob with a luxurious feel. Installation is easy and all hardware is Stainless Steel. Everything is CNC Machined from billet stock right here in the USA. The set screw that holds the knob in place is a flat tip style (no marring of your VFO shaft) and the spinner is long lasting Delrin. These knobs are first class all the way. I am so sure you will be pleased I will 100% guarantee your satisfaction for 30 days or you may return it for a full refund. P.O. Box 249, Caledonia, OH 43314 **Phone:** (419) 688-1505 Email: n8bx@73cnc.com **Web:** <http://www.73cnc.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: <http://marketplaceadvisor.channeladvisor.com/StoreFrontProfiles/default.aspx?sfid=86409>

Caltronics, 335 Maple Ave., Torrance, CA 90503, **Phone:** (800) 346-4936 or (310) 787-0782, **Fax:** (800) 345-0414 or (310) 787-1096 <http://www.caltronix.com/>

- Drake "Bar Knob" that fits all the A, B and C Line radios p/n 50-133 is 0.938" in diameter with a 0.250" dia shaft.
- Smaller knob that goes on the SPR-4, p/n 50-132 is 0.750" dia with a 0.250" shaft. Their p/n 50-1418 is a 0.250" to 0.125" "Shaft Reducer" insert.
- Main Tuning Knob." Best description is that it is a C Line knob but without the spinner button. Their p/n 50-261 is a 1.750" dia / 0.250" shaft "
- The "BAR" Bandswitch knob (p/n 50-161) and the large tuning knobs (p/n 50-133) for the MN-2000. The tuning knobs do have a white indicator stripe on the top of the knob as well as on the skirt, but other than that they are identical.



TR-4C SSB FILTERS:

Replacement SSB filters can be obtained from *International Crystal* (INRAD), 13620 Tyee Road, Umpqua, OR 97486, P/N #1902 (Lower Sideband), #1992 (Upper Sideband), phone#: 541-459-5623, Web: <http://www.coulee.com/inrad/index.htm>, email: inrad@rosenet.net. An article covering SSB filter replacement was written by: WA8SAJ, and are located at: <http://www.wb4hfn.com>

R-4C FILTERS: (CW, SSB, & AM)

1. INTERNATIONAL RADIO (INRAD), 13620 Tyee Road, Umpqua, OR 97486, Phone: 1-541-459-5623, Web: <http://www.inrad.net/home.php> , email: inrad@rosenet.net Web: <http://www.coulee.com/inrad/>
2. Sherwood Engineering Inc., 1268 South Ogden Street Denver, Colorado 80210 USA e-mail: robert@sherweng.com Phone: 303-722-2257 FAX: 303-744-8876 Web: <http://www.sherweng.com/>

TR-4C AM EXPERIMENTAL FILTERS:

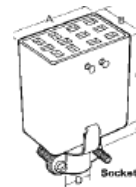
AM 9 mhz. filters Part # 1906 can be obtained from *International Crystal* (INRAD), 13620 Tyee Road, Umpqua, OR 97486 phone#: 541-459-5623, Web: <http://www.inrad.net/home.php> , email: inrad@rosenet.net. An article covering AM filter replacement was written by WA8SAJ, and are located at: <http://www.wb4hfn.com> See Jeff Covelli' article in Electric Radio #147.

DO-IT-YOURSELF CABINET RE-PAINTING:

1. Krylon Semi Flat Black # 1613 is an identical match. It can be located at Wal-Mart, K-Mart, and many hardware stores. Procedures for painting cabinets is located at: <http://www.wb4hfn.com>
2. Rust-Oleum High Performance Enamel Dark Machine Gray #7587 is an identical match for MS-4 speaker grills.
3. NC Total Electronics, Telephone: (336) 229-5671, Email: K4LGX@YAHOO.COM, Web: <http://www.nctotalelectronics.com/>

CINCH JONES CONNECTORS AC4 & AC3 (12 PIN MOLEX Part# S-3312-CCT):

1. Mouser Electronics, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number: 538-38331-8012, Web: <http://www.mouser.com/>
2. Newark InOne, 4801 N. Ravenswood, Chicago, Illinois 60640, Phone: 773-784-5100, Part Number: #14F2451 . Web: <http://www.newark.com/>
3. Digikey, 701 Brooks Ave. South, PO Box 677, Thief River Falls, MN 56701-0677, Phone: 218-681-6674, Part# CJ112S-ND , Web: www.digikey.com
4. Atex Electronics, Part Number S-312-CCT-P: Call, Phone: 1-877-367-2839 Email: info@atexelectronics.com Web: <http://www.atexelectronics.com/connectors/jonesconn.htm>



CINCH JONES CONNECTOR TR7 - PS7 PWR(4 PIN MOLEX Part# S-5404--CCT):

1. Mouser Electronics, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number:538-38541-8404, Web: <http://www.mouser.com/>



CINCH JONES CONNECTOR TR7 - PS7 PWR (10 PIN CINCH-JONES Part# S-310-CCT):

1. Newark InOne, 4801 N. Ravenswood, Chicago, Illinois 60640, Phone: 773-784-5100, Part Number: #29F864 . Web: <http://www.newark.com/>
2. Digikey, 701 Brooks Ave. South, PO Box 677, Thief River Falls, MN 56701-0677, Phone: 218-681-6674, Part# CJ110S-ND , Web: www.digikey.com



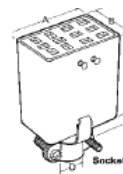
CINCH JONES CONNECTOR TR7 - RV-7 (8 PIN MOLEX Part# P-3308-CCT):

1. Mouser Electronics, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number:538-38331-5608, Web: <http://www.mouser.com/>
2. Digikey, 701 Brooks Ave. South, PO Box 677, Thief River Falls, MN 56701-0677, Phone: 218-681-6674, Part# CJ108P-ND , Web: www.digikey.com



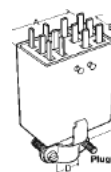
CINCH JONES CONNECTOR DC3, DC4 & C4 (10 PIN MOLEX Part# S-3310-CCT):

1. *Newark InOne*, 4801 N. Ravenswood, Chicago, Illinois 60640, Phone: 773-784-5100, Part Number: #14F2450 . Web: <http://www.newark.com/>
2. *Digikey*, 701 Brooks Ave. South, PO Box 677, Thief River Falls, MN 56701-0677, Phone: 218-681-6674, Part# CJ110S-ND, Web: www.digikey.com



CINCH JONES CONNECTOR TR7 ASSESSORY (12 PIN MOLEX Part# P-3312-CCT):

1. *Mouser Electronics*, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number:538-38331-5612, Web: <http://www.mouser.com/>
2. *Digikey*, 701 Brooks Ave. South, PO Box 677, Thief River Falls, MN 56701-0677, Phone: 218-681-6674, Part# CJ112P-ND, Web: www.digikey.com
3. *Atex Electronics*, Part Number: P-312-CCT-P Call, Phone: 1-877-367-2839 Email: info@atexelectronics.com Web: <http://www.atexelectronics.com/connectors/jonesconn.htm>



MICROPHONE PLUGS, .206 INCH, STRAIT: (Switchcraft S-260)

1. *Mouser Electronics*, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number:502-S260, Web: <http://www.mouser.com/>
2. *Newark InOne*, 4801 N. Ravenswood, Chicago, Illinois 60640, Phone: 773-784-5100, Part Number: 98F7746. Web: <http://www.newark.com/>



MICROPHONE PLUGS, .206 INCH, RIGHT ANGLE: (Switchcraft S-230)

1. *ONLINECOMPONENT.COM*, Part Number: S230, <http://www.onlinecomponents.com>
2. *Mouser Electronics*, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number: 502-S230, Web: <http://www.mouser.com/>
3. **Nationwide Radio & Eq. Sales LLC**, Mark Olson "President", 1490 Norfield Rd, Suamico, Wi. 54173, Email: ke9pq@new.rr.com Phone: (920) 434-8097
Web: <http://marketplaceadvisor.channeladvisor.com/StoreFrontProfiles/default.aspx?sfid=86409>



TR4C ANTENNA RELAY (AMF/POTTER & BRUMFIELD #R10-E1Y4-V2.5K):

1. **Harbach Electronics**, Jeff Weinberg - W8CQ, P/N RY-T4RC/T4XC, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>
2. *Mouser Electronics*, Part Number 655-R10-E1Y4-V2.5K, Phone 800-346-6873, <http://www.mouser.com/>
3. *DIGI-KEY CORP.* 701 Brooks Ave. South, Thief River Falls, MN 56701-0677, Phone Number: 800-344-4539, Digi-Key P/N : PB123-ND. Web:<http://www.digi-key.com>



BURNISHING TOOL (Used to clean relay contacts):

1. *Mike Sandman*, Chicago's Telecom Expert, 390 E. Irving Park Rd., Roselle, IL 60172 Phone: 630-980-7710. Web: <http://www.sandman.com/> Order Model T001E for \$18.95
2. *Neuses Tools*, 1401 Rohlwing Rd., Rolling Meadows, IL 60008. Phone: 847-253-6555, Fax: 847-253-6652. Web: <http://www.pkneuses.com/www.pkneuses.com/index.html> (CB-5 Contact Burnisher with 6 (No.266B) .007" (.178mm) thick blades. (Included in the TK-18 Tool Kit. CB-54 Same as CB-5 except has 6 (No. 466B) .0035" (.089 mm) thick blades. CB-6 Same as CB-54 except also contains 6 (No. 266C) round ended abrasive rods. CB-7 Same as CB-5 except has 6 (No. 566B) smooth satin finished blades)



CONTACT CLEANER (DEOXIT D5):

1. *Antique electronic supply*, 6221 S. Maple Ave, Tempe, AZ 85283, Phone 800-706-6789, E-mail: info@tubesandmore.com, Part Number: S-CD5S-6, <http://www.tubesandmore.com>
2. *Sherwood Engineering Inc.*, <http://www.sherweng.com/ham.html>
3. *CAIG Laboratories, Inc.*, 12200 Thatcher Court, Poway, CA 92064, Part No. DN5S-6N, or the needle dispenser D100L Part No. D100L-25C Phone: 800-224-412, Email: caig123@caig.com, Web: <http://www.caig.com/>
4. *Amazon*, Web: <http://www.amazon.com/>



AC4, AC3, R4 FILTER CAPACITORS:

Antique electronic supply, 6221 S. Maple Ave, Tempe, AZ 85283, Phone 800-706-6789, E-mail: info@tubesandmore.com, <http://www.tubesandmore.com>

HAYSEED HAMFEST CO. - e-mail: sales@hayseedhamfest.com Web: <http://www.hayseedhamfest.com/>



AC3, AC4, POWER SUPPLY FILTER REPLACEMENT BOARD:

1. Mike Bryce, of the "*TheHeathKitShop*" makes a universal replacement kits for the AC-4 and AC-3. The Part number is: AC4r. You can obtain just the board if desired. Web: <http://www.theheathkitshop.com>



AC3, AC4, POWER SUPPLY FILTER REPLACEMENT BOARDS:

1. *Paul Kraemer of Electronics Specialties*, Dual PCB board replacement for the AC-4. Phone: 641 472 7084, Email: elespe@lisco.com
2. *Harbach Electronics*, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>



R-4C FILTER CAPACITORS:

Sherwood Engineering Inc, 1268 South Ogden Street Denver, Colorado 80210 USA, Part No.: FC-4 Filter Capacitor Replacement Kit, e-mail: robert@sherweng.com Phone: 303-722-2257 FAX: 303-744-8876

HAYSEED HAMFEST CO. - e-mail: sales@hayseedhamfest.com Web: <http://www.hayseedhamfest.com/>

R-4A & R-4B FILTER CAPACITORS:

WA9TGT - R4A & R4B Re-cap kits, Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

HAYSEED HAMFEST CO. - e-mail: sales@hayseedhamfest.com Web: <http://www.hayseedhamfest.com/>

ELECTROLYTIC CAN CAPACITORS for 2B, 2C, R4 series, T4 series, TR-4 series:

HAYSEED HAMFEST CO. - Fredericksburg, Iowa Hayseed Hamfest is your supplier of metal can-type and tubular electrolytic capacitors.

e-mail: sales@hayseedhamfest.com Web: <http://www.hayseedhamfest.com/>



WA9TGT - These 4-section replacement filter capacitor module fits in place of the original 4-section filter capacitor can. Fits R4, R4A, R4B, 2A, 2B Receivers . Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com



R4A PAPER FOIL CAPACITOR RE-CAP KIT:

WA9TGT - All the needed values are in this R4A Re-cap kit. All capacitors meet or exceed the original voltage rating used in the Drake R4A receiver. Web Site:

<http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

PASSBAND TUNING KNOB SHAFT REDUCER:

WA9TGT - Fits all Drake 2-A / 2-B / -2C / R-4 / R-4A / R-4B Series

Receivers PBT Knobs Web Site: <http://www.2bradioparts.com/index.html> ,

Email: 2bRadioParts@gmail.com

R4A, R4B, SW-4A, 2C AUDIO GAIN CONTROL:

WA9TGT - This is an American made 3K replacement AF gain control with the correct audio taper.. They are NOS and were originally designed for the Drake 2-C Receiver, however they also work fine in the R-4A (11 tube chassis), the R4B and the SW-4A Web Site:

<http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

2A, 2B, R4 500K AF GAIN CONTROL:

WA9TGT - These 500K AF gain controls are (New Old Stock) and they are the originals used on the Drake 2A/2B receivers. This same AF gain control is also used in the Drake R4 receiver and also in the 13 tube version of the R4A receiver. Web Site:

<http://www.2bradioparts.com/index.html> , Email:

2bRadioParts@gmail.com

2A, 2B Dial Strings:

WA9TGT - Dial Strings are .028" OD, pre-cut for correct installation fit.

Web Site: <http://www.2bradioparts.com/index.html> , Email:

2bRadioParts@gmail.com

PLATE & LOAD CONTRAOL SHAFT COUPLERS:

WA9TGT - These couplers will replace the old compression style shaft couplers used in the T-4XB / C Transmitters as well as the couplers used in the late version TR-4 / TR-4C series transceivers. Web Site:

<http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

2B CAPACITOR RE-CAP KIT:

WA9TGT - All the needed values are in this 6 piece 2B Re-cap kit. All capacitors meet or exceed the original voltage rating used in the world famous Drake 2B Receiver. Web Site:

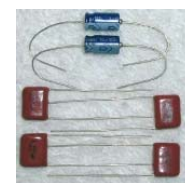
<http://www.2bradioparts.com/index.html> , Email:

2bRadioParts@gmail.com

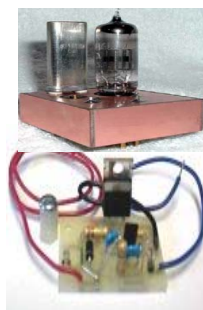
CRYSTAL CALIBRATOR, 2A, 2B, 2C, R-4B:

TheHeathKitShop Mike Bryce, makes a universal calibrator kit that will work with any receiver, including the 2A, 2B, 2C, R4B, etc., receiver. It's a 100khz and 25 khz and you can pulse the marker on and off to find it on a busy band. Web:

<http://www.theheathkitshop.com>



WA9TGT - (Direct Plug-In) "Crystal Calibrator" For The "DRAKE" 2A / 2B / 2C Receivers. Completely Assembled and Pre-Tested. Uses a 6CB6 Tube (Included).
 Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com

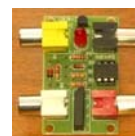


L4 / L4B SOFT-KEY PCB KIT:

Harbach Electronics, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/> The SK-401 is an interface module which allows your transceiver to key the Drake L-4 or L-4B seeing only 0.7 volts at 1.5 mA. The original Drake L-4/L-4B circuit had +24 volts on the keying line, but this can still cause damage to modern rigs. This unit installs easily in the RF deck.

AMPLIFIER INTERFACE UKA-2 :

1. **HamGadgets.com**, Dale Botkin, 16624 Elm St., Omaha, NE 68130-1826 <http://www.hamgadgets.com/> Use this to key *nearly any* solid state, grid-block or even cathode keyed rig transmitter, transceiver or amplifier. This totally silent solid state relay is rated for a whopping **400V DC**, at 400 mA! Use it to key your tube amp from a solid state rig, or keep that high voltage off your straight key - no more getting zapped when you accidentally touch the wrong part of the key!



2. **TheHeathKitShop**, Mike Bryce, keying interface for the drake L4. Instead of your radio seeing 30 volts at 75 ma, with this interface, it will see 12 volt at 5 ma An optical coupler connected the radio to the amp. Two LED's for instant verification of operation. The operation is totally automatic and is transparent to the operator. NO holes are drilled. Preassembled wiring harness simply plugs into the assembled pcb. You need to solder four wires, and remount a diode (included) onto a new terminal strip (included) a heavy 1.5A relay does the labor. All parts, assembled pcb, wiring harness will be \$39. Web: <http://www.theheathkitshop.com>



L4 / L4B PILOT LIGHTS:

1. **Allied Electronics**, 7151 Jack Newell Blvd. S., Fort Worth, Texas 76118 U.S.A., Web: <http://www.alliedelec.com/> , Allied #679-5105 = 'Red', #679-5115 = 'Amber'.
2. **Mouser Electronics**, Part No. 607-1050-C1 for the Red with 6" black leads and the Amber color is 607-1050-C3 is the 'Amber' , Phone 800-346-6873, <http://www.mouser.com/>
3. **Nationwide Radio & Eq. Sales LLC**, Mark Olson "President", 1490 Norfield Rd, Suamico, Wi. 54173, Email: ke9pq@new.rr.com Phone: (920) 434-8097
Web: <http://marketplaceadvisor.channeladvisor.com/StoreFrontProfiles/default.aspx?sfid=86409>



L4 / L7 AMPLIFIER CAPACITORS: (200 mfd @ 450 VDC)

Axial leads are impossible to find as direct replacements. You will need to get the snap mount variety, or screw lug type and solder appropriated leads to match installation.

1. **Harbach Electronics**, Jeff Weinberg - W8CQ, Phone: 419-945-2359, Par No.: CP-210 SET OF 8 MATCHED 210mF 450VDC COMPUTER GRADE email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>
2. **Newark Electronics**, Part# 18F2912 (200uf) Part# 01M7652 (220uf), Part# 52R2409 (220UF), , Phone 800-346-6873, <http://www.mouser.com/>



L75 AMPLIFIER CAPACITORS: (100 mfd @ 450 VDC)

1. **Radio Daze**, Part# C-EA100-450, Phone (800)-456-6494., <http://www.radiodaze.com/>
2. **Newark Electronics**, Part# 30K6603 (100uf) Part# 79K3635 (100uf), Phone 800-346-6873, <http://www.mouser.com/>
3. **Mouser Electronics**, Part# 75-TVA1718-E3 (100uf), Phone 800-346-6873, <http://www.mouser.com/>

L4 / L7 HIGH VOLTAGE REPLACEMENT POWER SUPPLY PCB :

1. **Mike Bryce , of the "HeathKitShop"** This handheld PCB assembly will put new life into your old Drake L4 amplifier. Comes in kit form, but an assembled pcb is available.. Web: <http://www.theheathkitshop.com>
2. **Harbach Electronics**, Jeff Weinberg - W8CQ, Phone: 419-945-2359, Par No.: PM-400 L-4/B/7 POWER SUPPLY. email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>



L4 / L4B SOFT-START PCB KIT:

Harbach Electronics, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>

The SS-400 limits inrush current during amplifier start-up by placing a small resistive load in series with the AC mains. The load is switched out of the circuit by the relay a few milliseconds later. The soft-start mounts on the underside of the RF deck and safely limits inrush current to protect the hard to find and costly-to-replace ON-OFF switch, tubes, filter capacitors and high voltage transformers.



L4 / L4B / L7 HV SAFETY RESISTOR:

Harbach Electronics, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>

The RES-400 is a direct replacement for the original IRC SPH-style safety resistors used in the L-4/L-4B/L-7 remote power supply. These resistors are designed to open under conditions of high plate current draw from the power supply (tube arch or power supply short) to protect expensive tubes and power supply components.



L4 / L4B / L7 REPLACEMENT 50k 50 W BIAS RESISTOR:

Harbach Electronics, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web:

<http://www.HARBACHELECTRONICS.COM/> The RES-402 is a direct replacement for the 50KOhm 50 W bias resistor used in the Drake L-4/L-4B/L-7 remote power supply.



L4 / L4B / L7 T/R RELAY:

Harbach Electronics, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>

The RY-L4B is a direct replacement T/R relay for the Drake L-4/L-4B. It is a 3PDT relay with a 24VDC coil.



L4/L4B/L7/L75 POWER & CW/SSB ROCKER SWITCH REBUILD KIT:

When the Drake L-4/L-4B/L-7/L-75 power or SSB/CW rocker switch becomes defective there are very few repair options except to replace it with one from a parts amplifier. The original switch is no longer available from any supplier. This kit includes the back half body of the switch housing containing stationary spade lug contacts, two rocker arm contacts, tension springs & pistons, and crimp-on connectors; everything you need to completely rebuild the L-4/L-4B/L-7/L-75 power and/or SSB/CW rocker switch.



Harbach Electronics, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: info@harbachelectronics.com, Web: <http://www.HARBACHELECTRONICS.COM/>

L4 - 3-500z GLASS CHIMNEYS & CHIMNEY CLIPS:

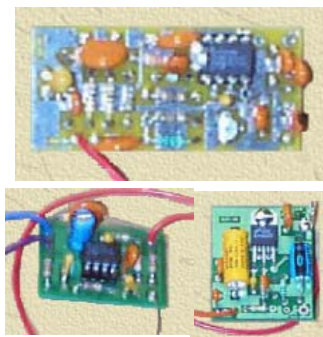
1. **RF Parts**, 435 So. Pacific Street , San Marcos, CA 92069 Part No. 5X406, and Part # 275-CLIP, (800) 737-2787, Technical Help: (760) 744-0750, Web: <http://www.rfparts.com/>
2. **Colman**, You can also use Colman's lantern globes for their propane gas lanterns, part number R214D046C. If shopping at your local sports store, the box has a UPC number of 20071213 and on the globe itself is No. 277C043 3009. Web: http://www.coleman.com/coleman/parts/Productimage2.asp?product_id=globe Phone: 800-835-3278, Email: consumerservice@coleman.com.

R4C IMPROVEMENTS:

Sherwood Engineering Inc., 1268 South Ogden Street Denver, Colorado 80210 USA, e-mail: robert@sherweng.com Phone: 303-722-2257 FAX: 303-744-8876 Web: <http://www.sherweng.com/ham.html>

First IF Crystal Filters

1. Filter brackets, Crystal and Mode Switch cover plates.
2. PRE-4 Preamp,
3. R-4C Filter Capacitor Replacement Kit
4. R-4C Audio Amplifier
5. R-4C Solid State 3rd Mixer.
6. R-4C Product Detector
7. R-4C New Replacement Power Supply Board



CRYSTALS:

1. **International Crystal Manufacturing Co. Inc.**, Phone: 1-800-322-9426, Web: <http://www.icmfg.com>, <http://www.icmfg.com/hamradio-manufacturers.html> , email: info@icmfg.com
2. **JAN Crystals**, 2341 Crystal Drive, P.O. Box 60017, Fort Myers, FL. 33906-6017, Phone: 800-526-9825, Fax: 941-936-3750, Email: sales@jancrystals.com Web: <http://www.jancrystals.com/> .
3. **Sherwood Engineering Inc.**, 1268 South Ogden Street Denver, Colorado 80210 USA e-mail: robert@sherweng.com Phone: 303-722-2257 FAX: 303-744-8876. <http://www.sherweng.com/ham.html> Sells crystals for the R4 series only.
4. **M&H Electronics**, 9569 9th Street, Rancho Cucamonga, CA 91730 (800) 643-9825, Fax (909) 945-4971 Web: <http://www.mhelectronics.com/>
5. **WA9TGT, 2A/2B/2C Band Crystals**, Web Site: <http://www.2bradioparts.com/index.html> , Email: 2bRadioParts@gmail.com
6. **QuartSLab**, Email: sales2@quartslab.com , Web Site: <http://www.quartslab.com/>

DRAKE 9.000mhz CRYSTAL SPECIFICATIONS:

+/- 0.003% Freq. tol., Parallel Resonant, 20pf load cap., HC-32/U wire leads, Hermetic seal

R4B CRYSTAL CALIBRATOR:

Semi Conductor Museum <http://www.transistormuseum.com> sells the IC1 and IC2 UL923 IC's that are used on the Crystal Calibrator pcb. Email, transistormuseum@aol.com to determine payments options (Paypal or Check) http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.htm



METER REPAIR:

Meters for Drake equipment are no longer available. The following sources will repair meters.

Standard Meter Labs

Phone: (925) 449-0220
236 Rickenbacker Circle
Livermore CA 94550

Charles Jobs

Phone: (828) 891-4355
125 Denmar Lane
Hendersonville NC 28791

Eldad Benary

Phone: (845) 246-2466
129 George Sickel Rd
Saugerties, NY 12477

Industrial Instrument Works

Phone: 800-435-2254
5745 Salmen Ave.
New Orleans, LA 70123

Larson Metercraft, Inc.

9328A Wheatlands Road
Santee CA 92071
Phone: 619-258-8990
<http://www.larsonmetercraft.com>

TUBES:

1. **ESRC Vacuum Tubes**, Phone: 407-826-5808, Email: esrc1@aol.com Web: <http://esrcvacuumtubes.com/>
2. **W9TEW Tube Sales**, Bob Bieker, 9528 Farmer Dr., Highland, IN 46322 Phone: 219-924-0945, Email: www.hamtubes.com ,
3. **John Walker JR.**, 13406 W. 128TH Terr., Overland Park, KS. 66213, PH: 913-782-6455 (Home Evenings) PH: 913-568-7057 (Cell), Email: JWALKER83@KC.RR.COM
4. **TTC The Tube Center**, Orlando, FL 32809 Phone: 407-826-9172, Email: customerservice@thetubecenter.com Web: <http://www.thetubecenter.com/index.html>
5. **Radio Electric Supply**, 3500 N.W. 97th BLVD. Suite R, Gainesville, FL 32606, Phone: 352-332-8881, Email: tubes@mindspring.com Web: <http://www.vacuumtubes.net/>
6. **Vacuum Tubes, Inc.**, Phone: (407)481-9994 Web: <http://www.vacuumtubesinc.com/> email, jim@vacuumtubesinc.com
7. **SND Tube Sales**, Phone 636-939-9190, Fax 636-922-0601, E-mail: sndtubes@vacuumtubes.com Web: <http://www.vacuumtubes.com/>
8. **The Tubestore.com**, Phone: 1-877-570-0979, Web: <http://www.thetubestore.com/thetubestore/index.html>
9. **Antique electronic supply**, Phone 800-706-6789, E-mail: info@tubesandmore.com, Web: <http://www.tubesandmore.com>
10. **Nationwide Radio & Eq. Sales LLC**, Email: ke9pq@new.rr.com Phone: (920) 434-8097 Web: <http://marketplaceadvisor.channeladvisor.com/StoreFrontProfiles/default.aspx?sfid=86409>

Transformer Rewinding:

Newly manufactured and rebuilt transformers for many radios and audio equipment. Custom transformers and rewinding - including power, plate, bias, filament, modulation, output and audio transformers, power supply chokes. Rewinds are warranted for one year for manufacturing defects.

TRS Transformer Rewinding Service, 478 Forest ave., Orono, Maine 04473
Phone: 207-942-5745, Email: xfrmrs@roadrunner.com Web Page:
http://members.tripod.com/tubes_tubes_tubes/transformerrewindingservice/



W4 WATTMETER CONVERSION TO A PEAK READING METER:

1. **HI-RES Communications** offers the famous PDC-1 kit to convert ANY Average Reading wattmeter to true Peak Reading! Other kits will join the PDC-1 in our kit line soon! HI-RES Communications, Inc., 8232 Woodview Dr., Clarkston, MI 48348-4058 USA , E-mail orders: orders@hi-rescom.com , Phone: (248) 391-6660 Web: <http://hi-rescom.com/html/pdc-1.html>
2. **K4DPK**, PEP Adapter:: Phil Chambley, Sr., 28 East Camelia Rd. NE Rome, GA 30161 Email: k4dpk@comcast.net, Web: <http://home.comcast.net/~k4dpk/>

TR-7 ANTENNA RELAY :

1. **Mouser Electronics**, Part Number 655-R10-E1Y4-V18S, Phone 800-346-6873, <http://www.mouser.com/>
2. **DIGI-KEY CORP.** 701 Brooks Ave. South, Thief River Falls, MN 56701-0677, Phone Number: 800-344-4539, Digi-Key P/N :PB121-ND. Web:<http://www.digi-key.com>



TR-7 PIN DIODES (MPN3404 & (UM9401 OR MA4P 1200) :

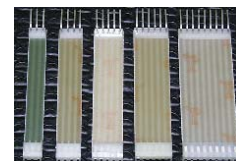
1. **RF Parts**, 435 So. Pacific St., San Marcos, CA 92069, <http://www.rfparts.com/index.html> Phone: 888-737-2787.
2. **Down East Microwave Inc.**, 954 Route 519 Frenchtown, NJ 08825, <http://www.downeastmicrowave.com/> Phone: 908-996-3584

TR-7, TR-5 & Replacement Plastic Side Panels:

Replacement re-manufactured plastic side panels can occasionally be obtained from John Kriner, 927 Lamberton St. Middletown, OH 45044. Email: jkriner@cinci.rr.com Web: <http://www.siscom.net/~jandsuz/index1.htm>

TR-7 SERVICE KIT EXTENDER CARDS:

Service Kit for the DRAKE TR-7 series. The kits includes the 13 board extenders cards and a DIGITAL JUMPER card required to do any real service work on these fine radios. [Bob W7AVK](#) by phone at [509] 766-7277 or check out <http://pweb.amerion.com/~w7avk/> for additional details.



TR-7 RF TRANSISTORS :

RF transmitter power transistors 2SC2879 or 2SC2879A TR7 final transistors. , from: **RF Parts**, 435 South Pacific Street, San Marcos, CA 92069, Phone: 800-737-2787, web: www.rfparts.com

Communication Concepts, Inc., 508 Millstone Dr., Beavercreek, Oh., 45434-5840 Telephone: 937-426-8600, Fax: 937-429-3811 web: <http://www.communication-concepts.com/default.htm>

MRF421MP TR7(A) final output transistors, the MP on the end of the part number means "Match Pair".

MRF455MP TR5 final transistors

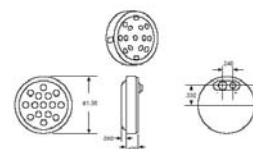
2SC2879 or 2SC2879A TR7(A) final transistors.

MRF475MP TR7(A) amplifier driver transistors.

ASTATIC D-104 MICROPHONE CRYSTAL CARTRIDGES:

Mouser Electronics, Phone 800-346-6873, E-mail: SALES@MOUSER.COM,

Part Number: #25LM022, Web: <http://www.mouser.com/>



TR7 / R-7 REPLACEMENT DISPLAY:

For orders in the US and Canada contact,

Jim Pruitt - WA7DUY, 1916 Tolman Rd , Ellensburg, WA 98926., USA.

E-mail: wa7duy@charter.net, to: <http://www.df4nw.de>, Willi Rass,

Richard-Strauss-Str. 56, D-91315 Hoechstadt, Germany. Phone: +49-9193-1826, E-

mail: willibald.rass@t-online.de



TR7 to R-7 Transceiver Cable:

Cables are made with all new materials, 12 pin connectors, separate cabling for the control functions and RF signals, shrink wrap on the cable ends to protect and hold the cables securely to the connectors. These cables are professionally built and assembled and fully tested and perform identically to the Drake original. To order contact RON BAKER at wb4hfn@wb4hfn.com. Web:

<http://www.wb4hfn.com/SALES/ForsaleHomePage.htm>



TR7 & TR5 Power Cable:

Power your Drake TR-7(A) Transceiver from any compatible power supply. This cable includes 4 prong power connector and 4 feet of red/black #10 size cable with connectors to accommodate up to 1/4" bolt. To order contact RON BAKER at wb4hfn@wb4hfn.com.

<http://www.wb4hfn.com/SALES/ForsaleHomePage.htm>



TR-7, SP-7, L-7 PLASTIC END CAPS:

These are direct replacements for the plastic end caps that are located on both the right and left side of the front panels. Michael March, K4QU, 242 Clay Hill Dr., Winchester, VA 22602, k4qu@qsl.net, lmarch@visuallink.com, Phone: 540-662-4279



TR7 Pre-Amplifier:

<http://www.df4nw.de/44.html>

A simple Pre-Amplifier for the TR-7 to improve receiver sensitivity on the higher short wave bands. Gain: ~ 15 db, Frequency range: 1 to 30 MHz, Size (HWL): 14x48x58 mm

For orders in the US and Canada contact, Jim Pruitt -

WA7DUY, 1916 Tolman Rd , Ellensburg, WA 98926., USA. E-mail: wa7duy@charter.net, to:

<http://www.df4nw.de>, Willi Rass, Richard-Strauss-Str. 56, D-91315 Hoechstadt, Germany.

Phone: +49-9193-1826,

E-mail: willibald.rass@t-online.de



TR7 DDS PTO Replacement:

The N4YG DDS system may replace the PTO in the TR-7 or its remote VFO, the RV-7. When integrated into either of these, the stability and performance rivals that of the best transceivers. Web:

<http://www.n4yg.com/>



TR7 VFO Stabilizer:

The free running VFO's in old or vintage rigs are subject to frequency drift due to temperature variations. Whilst the Drake TR-7 Permeability Tuned Oscillator (PTO) is generally very stable for an LC circuit, it still drifts several hundred hertz during a two hour net. To cure this drift, you might want to consider a VFO Stabilizer. Instructions:

http://www.wb4hfn.com/DRAKE/DrakeArticles/TR7-Installing-XLock/TR7_Improvements.htm Web Page: <http://www.cumbriadesigns.co.uk/>



Radio Repairs:

Jeff Covelli, WA8SAJ, Email: wa8saj@neweb.com , Web: <http://wb4hfn.com/Services/WA8SAJ/SAJ-Repair.htm>
WB4HFN Vintage Restoration & Repair, <http://www.wb4hfn.com> E-Mail: wb4hfn@wb4hfn.com

John Kriner, KA8GSP, Phone: 513-422-9059, Email: jkriner@cinci.rr.com

T&T Repair, 630 Copano Cove Rd., Rockport, TX 78382, 1-800-687-9161 E-mail: ltaft@2fords.net

