



## Technical Information Exchange

No: 062

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By: Mark Gilger, WBOIQK

# DRAKE PARTS, MATERIALS & RESOURCES

### DRAKE WEB PAGES:

- ❑ WB4HFN, Ronald Baker: <http://www.wb4hfn.com>
- ❑ Drake Virtual Museum: [http://www.dproducts.be/drake\\_museum/](http://www.dproducts.be/drake_museum/)
- ❑ K3HRN, Thom LaCosta: <http://www.zerobeat.net/drakelist/>
- ❑ W2ENY's Drake Info and Stuff: <http://www.geocities.com/w2eny/drake/>
- ❑ LA6OP, Sindre Torp: <http://home.online.no/~sindtorp/>
- ❑ N9BOR, Michael Dinelli: <http://www.qsl.net/n9bor/drake.htm>
- ❑ Ham Manuals <http://www.hamanuals.com/>
- ❑ Ham Manuals <http://bama.sbc.edu/drake.htm>
- ❑ 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 a 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](mailto:majordomo@www.zerobeat.net) - subscribe drakelist in body
- ❑ To Submit email: [drakelist@www.zerobeat.net](mailto:drakelist@www.zerobeat.net)

### 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](mailto:KG9BV@Yahoo.com)

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

Cables are used to interconnect the receiver and transmitter or other station accessories. The cables are 36 inches long with molded RCA style connectors on both ends. Designed for audio, and low voltage and signal switching applications. Cables are all new stock, available in gray or black. To order contact RON BAKER at [wb4hfn@wb4hfn.com](mailto:wb4hfn@wb4hfn.com).



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

### **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](mailto: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 29<sup>th</sup> Street, LaGrange Park, IL 60525, email: [RadioBob1@sbcglobal.net](mailto:RadioBob1@sbcglobal.net), Web: <http://www.radioantiques.com/>



Click for Closeup

### **CABINET SCREWS:**

1. *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, ¼ inch length, (P/N 91249 A144). Phone: 330-995-5500, <http://www.mcmaster-carr.com/>
2. 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](mailto:w7apm@mtaonline.net), Allen Martin / W7APM, P.O Box 4177, Palmer, Ak. 99645
3. RON BAKER / WB4HFN, Replacement case screws for all Drake cases, exact size, color and oxide finish, just like the Drake originals, but more durable. There are 100 screws to a package and sells for \$10.00 per package. First class postage is \$2.50, mailed in padded envelope, within the USA. International shipping available, shipping cost varies with destination, ask for shipping quote. Email: [wb4hfn@wb4hfn.com](mailto:wb4hfn@wb4hfn.com) Web: <http://www.wb4hfn.com/SALES/ForsaleHomePage.htm>



### **RUBBER CABINET BUMPER FEET:**

1. *McMaster-Carr Supply Company*, P.O. Box 7690, Chicago, IL 60680-7690, Adhesive-Backed Bumpers, (P/N 9723K96). Phone: 330-995-5500, <http://www.mcmaster-carr.com/>



Dome Tap

### **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/>

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

1. *Mouser Electronics*, Phone 800-346-6873, Part Number: 606-CM1850 <http://www.mouser.com/>

### **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](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 29<sup>th</sup> Street, LaGrange Park, IL 60525, email:  
[RadioBob1@sbcglobal.net](mailto: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](mailto: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](mailto: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. *1000 Bulb.com*, Item#: IND-0012, Phone: 800-624-4488, Web:  
<http://www.1000bulbs.com/>
2. *donsbulbs.com*, <http://www.donsbulbs.com/cgi-bin/r/b.pl/12/6.3v/0.15a~usa.html>
3. *Light Bulb Emporium*, Phone: 888-777-0649, Part# 756025,  
[http://www.lightbulbemporium.com/bulbrite\\_756025\\_12.asp](http://www.lightbulbemporium.com/bulbrite_756025_12.asp)
4. Light Bulbs Unlimited, 866-915-9818, Part#: S6930, [http://www.lbutampa.com/Lighting-Fixtures/Product/Satco/Light\\_Bulbs/S6930/](http://www.lbutampa.com/Lighting-Fixtures/Product/Satco/Light_Bulbs/S6930/)

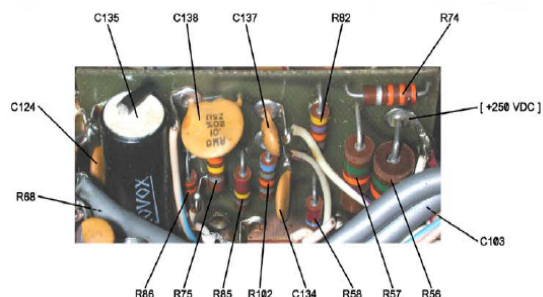


### **R-4C AUXILARY REAR CRYSTAL & FILTER COVER:**

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

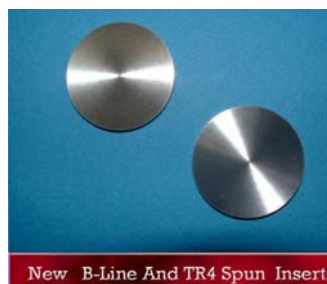
### **DRAKE SERVICE CD'S**

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. The B-Line is \$19, the 2 and 4 Lines are \$25 each, and the TR-4's are \$35 each. Go to Gary's web site for more detail. Gary Barrell, K4OAH, 10912 Virginia Forest Ct, Glen Allen, VA 23060-6503. e-mail:  
[k4oah@mindspring.com](mailto: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@arrl.net](mailto:k3ich@arrl.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@arrl.net](mailto:k3ich@arrl.net)

### **REPLACEMENT FRONT PANELS FOR 4 SERIES:**

Welcome to 4cfrontpanels.com. In an effort to keep the legacy of Drake amateur radio equipment alive and looking original, we have produced quality, no expense spared replacement front panels for most of the Drake 4 line. Our aluminum front panels are laser cut to Drake's original dimensions and tolerances. Next they are smoothed and etched and anodized to provide years of oxidation protection. The front panels are finished with baked-on epoxy ink, true to Drake colors. E-mail: [kf8mw@hotmail.com](mailto:kf8mw@hotmail.com) , Web: <http://www.wb4hfn.com/DRAKE/DrakeArticles/FrontPanels/KF4MW-Panels.htm>



### **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](mailto: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](mailto:n8bx@73cnc.com) **Web:** <http://www.73cnc.com/>



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

### **TR-4C AM EXPERIMENTAL FILTERS:**

AM Experimenter 9 mhz. filters can be obtained from *International Crystal* (INRAD), 13620 Tye Road, Umpqua, OR 97486 phone#: 541-459-5623, <http://www.coulee.com/inrad/index.htm>, email: [inrad@rosenet.net](mailto: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:**

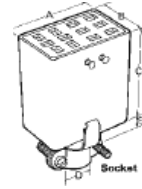
1. Krylon Semi Flat Black # 1613 is an identical match. It can be located at Wal-Mart, K-Mart, and many hardware stores. Procedures for painting cabinets is located at: <http://www.wb4hfn.com>
2. Rust-Oleum High Performance Enamel Dark Machine Gray #7587 is an identical match for MS-4 speaker grills.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

### **CABINET RE-PAINTING:**

**HARTZELL Manufacturing Company**, 2533 Technical Drive, PO Box 808, Miamisburg, OH 45343, Phone Number: 937-859-5955. They were the original equipment painters for all Drake cabinets. They charge \$45 per piece. Example: TR-4 would be 2 pieces, MS-4 would be 1 piece.

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

1. *Mouser Electronics*, Phone 800-346-6873, E-mail: [SALES@MOUSER.COM](mailto: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](http://www.digikey.com)
4. *Atex Electronics*, Part Number S-312-CCT-P: Call, Phone: 1-877-367-2839 Email: [info@atxelectronics.com](mailto:info@atxelectronics.com) Web: <http://www.atxelectronics.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](mailto:SALES@MOUSER.COM), Part Number:538-38541-8404, Web: <http://www.mouser.com/>



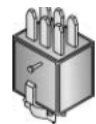
**CINCH JONES CONNECTOR TR7 - PS7 PWR (10 PIN CINCH-JONES Part# S-310-CCT):**

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](http://www.digikey.com)



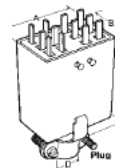
**CINCH JONES CONNECTOR TR7 - RV-7 (8 PIN MOLEX Part# P-3308-CCT):**

1. *Mouser Electronics*, Phone 800-346-6873, E-mail: [SALES@MOUSER.COM](mailto: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](http://www.digikey.com)



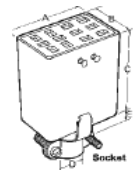
**CINCH JONES CONNECTOR TR7 ASSESSORY (12 PIN MOLEX Part# P-3312-CCT):**

1. *Mouser Electronics*, Phone 800-346-6873, E-mail: [SALES@MOUSER.COM](mailto: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](http://www.digikey.com)
3. *Atex Electronics*, Part Number: P-312-CCT-P Call, Phone: 1-877-367-2839 Email: [info@atxelectronics.com](mailto:info@atxelectronics.com) Web: <http://www.atxelectronics.com/connectors/jonesconn.htm>



**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](http://www.digikey.com)



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

1. *Mouser Electronics*, Phone 800-346-6873, E-mail: [SALES@MOUSER.COM](mailto: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](mailto:SALES@MOUSER.COM),  
Part Number: 502-S230, Web: <http://www.mouser.com/>



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

1. *Mouser Electronics*, Part Number 655-R10-E1Y4-V2.5K, 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 : 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](mailto: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](mailto:caig123@caig.com), Web: <http://www.caig.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](mailto:info@tubesandmore.com), <http://www.tubesandmore.com>



### **AC4, AC3, POWER SUPPLY FILTER REPLACEMENT BOARD:**

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. Phone: (888) 476-5279 Web: <http://www.theheathkitshop.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](mailto:robert@sherweng.com) Phone: 303-722-2257 FAX: 303-744-8876

## **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. These are available individually, as well as in complete kits for re-capping your vintage gear. You'll find we stock an ever-increasing number of caps and kits, made specifically for your equipment. We are also able to supply custom-made units on an order out basis at *no price penalty*. The kits are based around our high-quality single or multi-section capacitors. They also include the other axial- and/or radial-lead electrolytic capacitors needed to complete the re-cap of specific models of equipment.

e-mail: [sales@hayseedhamfest.com](mailto:sales@hayseedhamfest.com) Web: <http://www.hayseedhamfest.com/>

## **L4 / L4B SOFT-KEY PCB KIT:**

**Harbach Electronics**, Jeff Weinberg - W8CQ, Phone: 419-945-2359, email: [info@harbachelectronics.com](mailto:info@harbachelectronics.com), Web:

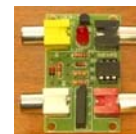
<http://www.HARBACHELECTRONICS.COM/> The SK-401 is an interface module which allows your transceiver to key the Drake L-4 or L-4B seeing only 0.7 volts at 1.5 mA. The original Drake L-4/L-4B circuit had +24 volts on the keying line, but this can still cause damage to modern rigs. This unit installs easily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



## **AMPLIFIER INTERFACE UKA-2 :**

**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!



## **L4 / L4B PILOT LIGHTS:**

**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'.



## **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](mailto:info@harbachelectronics.com), Web: <http://www.HARBACHELECTRONICS.COM/>
2. **Mouser Electronics**, Part# 75-TVA1720 (200uf), Part# 598-420C221M450AK8 (220uf), Phone 800-346-6873, <http://www.mouser.com/>
3. **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), Part# 65K2282 (100UF), , Phone 800-346-6873, <http://www.mouser.com/>
3. **Mouser Electronics**, Part# 75-TVA1718-E3 (100uf), Part# 140-XAL450100-RC (100uf), Part#598-SKA101m450 (100uf), Phone 800-346-6873, <http://www.mouser.com/>





### **L4 / L7 HIGH VOLTAGE REPLACEMENT POWER SUPPLY PCB :**

1. **Mike Bryce, of the "HeathKitShop"** makes a universal replacement power supply kits for the L4 & L7. You can obtain just the board if desired FOR \$25, or the full kit for \$100, part number L7R. Phone: (888) 476-5279 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 \$95. email: [info@harbachelectronics.com](mailto: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](mailto: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](mailto: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 expense 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](mailto: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](mailto: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 - 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](http://www.coleman.com/coleman/parts/Productimage2.asp?product_id=globe) Phone: 800-835-3278, Email: [consumerservice@coleman.com](mailto:consumerservice@coleman.com).

### **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](mailto:transistormuseum@aol.com) to determine payments options (Paypal or Check)



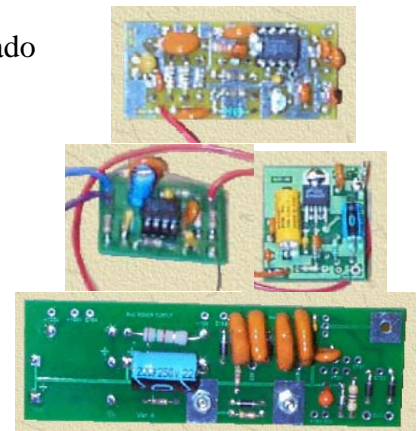
[http://semiconductormuseum.com/MuseumStore/MuseumStore\\_Fairchild\\_923\\_Index.htm](http://semiconductormuseum.com/MuseumStore/MuseumStore_Fairchild_923_Index.htm)

### **R4C IMPROVEMENTS:**

*Sherwood Engineering Inc.*, 1268 South Ogden Street Denver, Colorado 80210 USA, e-mail: [robert@sherweng.com](mailto: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 Sold State 3<sup>rd</sup> Mixer.
6. R-4C Product Detector
7. R-4C New Replacement Power Supply Board



### **CRYSTAL CALIBRATOR:**

Mike Bryce , of the "HeathKitShop" 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>



### **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](mailto: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](mailto: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](mailto: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. **Petersen Crystals**, 2735 Ave A, Council Bluffs, Ia 51501, 712-323-7539

### **DRAKE 9.000mhz CRYSTAL SPECIFICATIONS:**

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

## **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 Jobes  
Phone (828) 891-4355  
125 Denmar Lane  
Hendersonville NC 28791

RAM Meter, Inc  
Phone (800) 446-4035  
[www.rammeter.com](http://www.rammeter.com)  
Mich, Ohio, Penna.

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

## **W4 WATTMETER CONVERSION TO A PEAK READING METER:**

*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](mailto:orders@hi-rescom.com) , Phone: (248) 391-6660 Web: <http://home.att.net/~hi-res/>

## **TUBES:**

1. **ESRC Vacuum Tubes**, 6424 Pinecastle Blvd. Suite D , Orlando, FL 32809 Phone: 407-826-5808, Email: [esrc1@aol.com](mailto:esrc1@aol.com) Web: <http://esrcvacuumtubes.com/>
2. **TTC The Tube Center**, 6424 Pinecastle Blvd. Suite D , Orlando, FL 32809 Phone: 407-826-9172, Email: [customerservice@thetubecenter.com](mailto:customerservice@thetubecenter.com) Web: <http://www.thetubecenter.com/index.html>
3. **Radio Electric Supply**, 3500 N.W. 97<sup>th</sup> BLVD. Suite R, Gainesville, FL 32606, Phone: 352-332-8881, Email: [tubes@mindspring.com](mailto:tubes@mindspring.com) Web: <http://www.vacuumtubes.net/>
4. **Vacuum Tubes, Inc.**, 1080 Sligh Blvd, Orlando, FL 32806-1029 Phone: (407)481-9994 Web: <http://www.vacuumtubesinc.com/> email, [jim@vacuumtubesinc.com](mailto:jim@vacuumtubesinc.com)
5. **SND Tube Sales**, Michael C. Marx, 908 Caulks Hill Road, St. Charles, MO 63304, Phone 636-939-9190, Fax 636-922-0601, E-mail: [sndtubes@vacuumtubes.com](mailto:sndtubes@vacuumtubes.com) Web: <http://www.vacuumtubes.com/>
6. **The Tubestore.com**, 512 James Street North, Hamilton, Ontario, Canada L8L 1J4, Phone: 1-877-570-0979, Web: <http://www.thetubestore.com/thetubestore/index.html>
7. **Antique electronic supply**, 6221 S. Maple Ave, Tempe, AZ 85283, Phone 800-706-6789, E-mail: [info@tubesandmore.com](mailto:info@tubesandmore.com), Web: <http://www.tubesandmore.com>

## **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 ):**

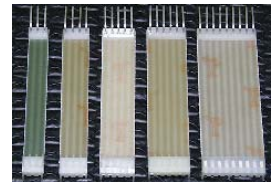
1. **RF Parts**, 435 So. Pacific St., San Marcos, CA 92069, <http://www.rfparts.com/index.html> Phone: 888-737-2787.
2. **Down East Microwave Inc.**, 954 Route 519 Frenchtown, NJ 08825, <http://www.downeastmicrowave.com/> Phone: 908-996-3584

## **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](mailto: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](mailto: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, from:

**RF Parts**, 435 South Pacific Street, San Marcos, CA 92069, Phone: 800-737-2787, web: [www.rfparts.com](http://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".

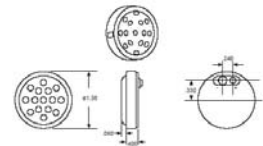
MRF455MP TR5 final transistors

2SC2879 TR7(A) final transistors, but not available in matched pairs.

MRF475MP TR7(A) amplifier driver transistors.

### **ASTATIC D-104 MICROPHONE CRYSTAL CARTRIDGES:**

**Mouser Electronics**, Phone 800-346-6873, E-mail: [SALES@MOUSER.COM](mailto: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](mailto: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](mailto:willibald.rass@t-online.de)



### **TR7 to R-7 Tranceive 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](mailto: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](mailto: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](mailto:k4qu@qsl.net) , [lmarch@visuallink.com](mailto:lmarch@visuallink.com) , Phone: 540-662-4279

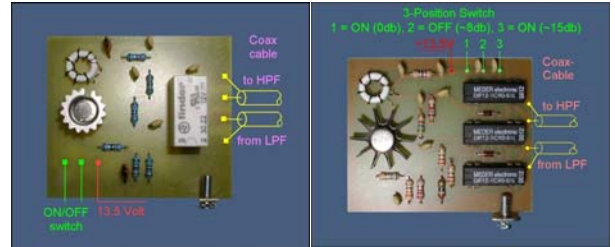


## **TR7 Pre-Amplifier:**

<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](mailto: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](mailto:willibald.rass@t-online.de)



## **Radio Repairs:**

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

John Kriner, KA8GSP, Email: [jkriner@cinci.rr.com](mailto:jkriner@cinci.rr.com)

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

