



Technical Information Exchange

No: 062

By: Mark Gilger, WB0IQK

DRAKE PARTS, MATERIALS & RESOURCES

DRAKE WEB PAGES:

- ❑ WB4HFN, Ronald Baker: <http://www.wb4hfn.com>
- ❑ Drake Virtual 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.gsl.net/n9bor/drake.htm>
- ❑ Ham Manuals <http://www.hamanuals.com/>
- ❑ Ham Manuals <http://bama.sbc.edu/drake.htm>

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

BLUE FILTER MATERIAL:

1. **WA9TGT:** www.wa9tgt.com Available, nice replacements for the "Drake" (Blue Dial Filters) used in the TR4's and the 4-Line Twins. They are \$3.00 per set, or 4 sets for \$10.00 shipped. Each set consists of one (1) dial filter and one (1) meter filter with pre-cut mounting holes in the proper location. I no longer supply pre-cut TR-7 series filters. You can easily cut the 4-Line filters down to fit the TR-7 series. I have the White Background Diffuser Filter. They are a little thinner than the original Drake white diffuser but they work quite well. These white filters are \$2.00 each. For additional information or purchases: Donnie Garrett / WA9TGT, 3105 W.

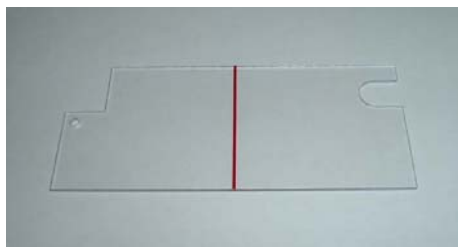
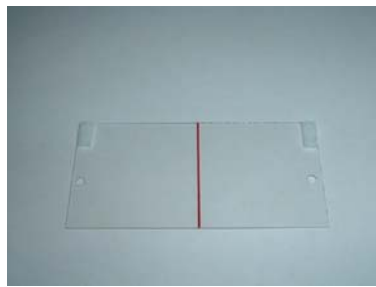


Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com

2. **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 blueing, 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 blueing sheets for customer wanting darker shade. The prices for the 7-line are as follows, and include 2 dial and 2 meter blueing pieces so customer can adjust color to own preference. Single sheet of blueing will give original look, two sheets will be darker blue. \$4.00 dial and meter blueing for TR-7. \$2.00 dial blueing for RV-7, \$5.00 meter blueing for L-7. Steve Sever, 6242 E SR 244, WALDRON IN 46182, Phone: 765-525-6996, Email: KG9BV@Yahoo.com

REPLACEMENT "CLEAR" 4-LINE DIAL WINDOWS:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com The A&B line models are \$10 each, or \$12 with the red Red adjustment hole pin. The 'C' line is \$9.



Dial Glass Window Red Adjustment Pin (T-4X, R-4, 2-A, 2-B):

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com



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. *WA9TGT*: www.wa9tgt.com Donnie Garrett / WA9TGT, 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com



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/>
2. Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com



PANEL LAMP, #47, 6.3Volt:

1. *Hosfelt Electronics*, 2700 Sunset Blvd, Stubenville, OH 43952-1158, Phone: 800-524-6464. Part Number: 37-114. <http://www.hosfelt.com>
2. *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>
3. *Mouser Electronics*, Phone 800-346-6873, Part Number: 606-CM47 <http://www.mouser.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/>

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*, Catalog Code: IND/0012, Phone: 800-624-4488, Web: <http://www.1000bulbs.com/>



R-4C AUXILIARY REAR CRYSTAL 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/>

R-4C 4-NB NOISE BLANKER DUMMY MALE PLUG:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765)282-2617, cfzepp@aol.com . Dummy Plug Must Be Used In The R-4C Receiver Noise Blanker Socket When The Optional 4-NB Noise Blanker Is Not Installed.



MAIN TUNING KNOB SPUN ALUMINUM INLAYS : (TR-4C, R-4C, T-4XC, TR-5, & TR-7)

Charlie Talbott, 13192 Pinnacle Lane, Leesburg, VA 20176-6146. Phone: 540-822-5643 Email: k3ich@arrl.net

MAIN TUNING KNOB – R4C/TR4C:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com



KNOBS:

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. 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 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 Web:
<http://www.coulee.com/inrad/>

TR-4C AM EXPERIMENTAL FILTERS: (See Jeff Covelli' article in Electric Radio #147)

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. An article covering AM filter replacement was written by WA8SAJ, and are located at: <http://www.wb4hfn.com>

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

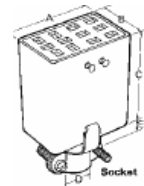
1. *Hosfelt Electronics*, 2700 Sunset Blvd, Stubenville, OH 43952-1158, Phone: 800-524-6464. Part Number: 224D. Web: <http://www.hosfelt.com>
2. *Mouser Electronics*, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number:502-S260, Web: <http://www.mouser.com/>
3. *Newark InOne*, 4801 N. Ravenswood, 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/>

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/>



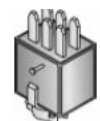
CINCH JONES CONNECTOR TR7 - PS7 PWR (10 PIN CINCH-JONES Part# S-310-CCT):

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



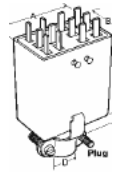
CINCH JONES CONNECTOR TR7 - RV-7 (8 PIN MOLEX Part# P-3308-CCT):

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



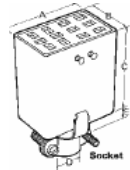
CINCH JONES CONNECTOR TR7 ASSESSORY (12 PIN MOLEX Part# P-3312-CCT):

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>



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



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

1. *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>
2. *Mouser Electronics*, Part Number 655-R10-E1Y4-V2.5K, Phone 800-346-6873, <http://www.mouser.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.

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/>

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. Order Model T001E for \$18.95
2. *Neuses Tools*, 1401 Rohlwing Rd., Rolling Meadows, IL 60008. Phone: 847-253-6555, Fax: 847-253-6652. (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. *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/>



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>



AC4, AC3, POWER SUPPLY FILTER REPLACEMENT BOARD:

Mike Bryce , of the "HeathKitShop" 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 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

R-4, R4A, R4B FILTER CAPACITORS:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com . A 4-section replacement filter capacitor module that will fit in place of the original 200 Volt 4-section filter can capacitor.



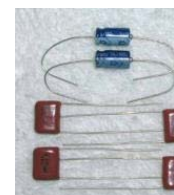
2A, 2B FILTER CAPACITORS:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com A 4-section Replacement Filter Capacitor Module That will Fit In Place Of The Original Filter Capacitor Can Used In The Drake 2A and 2B Receivers. It Is Made On G-10 Glass Epoxy Board And Uses 250 V Capacitors



2B PAPER / FOIL CAPACITOR RE-CAP KITS:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com 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.



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. *Mouser Electronics*, Phone 800-346-6873, <http://www.mouser.com/>



L4 / L7 HIGH VOLTAGE REPLACEMENT POWER SUPPLY PCB :

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>

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. Phone: 800-835-3278, Email: consumerservice@coleman.com.

CRYSTALS:

1. **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/>
2. **INTERNATIONAL RADIO (INRAD)**, 13620 Tyee Road, Umpqua, OR 97486, Phone: 1-541-459-5623, Web: <http://www.coulee.com/inrad/index.htm>, email: inrad@rosenet.net
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. 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

2A, 2B, 2C 40 METER BAND CRYSTAL:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com

2A, 2B, 2C Crystall Calibrator Direct Replacements:

Donnie Garrett / WA9TGT, www.wa9tgt.com , 3105 W. Aruba Way, Muncie, IN 47302, (765) 282-2617, cfzepp@aol.com



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

RAM Meter, Inc
Phone (800) 446-4035
www.rammeter.com
Mich, Ohio, Penna.

Industrial Instrument Works
Phone: 800-435-2254 <http://www.iivw.net/>
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 , Phone and Fax orders: (248) 391-6660 (Safe to leave ALL ordering information!) <http://home.att.net/~hi-res/kits/kits.html>

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

TUBES:

1. **ESRC Vacuum Tubes**, 1599 SW 30th Ave., Unit 4, Boynton Beach, FL 33426, USA,
Phone: 561-737-8044, Email: esrc@worldnet.att.net WEB: <http://electron-tubes.com/>
2. **Radio Tube Supply** , 23 Delaware Avenue, Poland, Ohio 44514, phone 1-330-757-4792 Web: www.Doctorroy@Radiotubesupply.com
3. **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/page/indexc.html>
4. **Pegasus Developments Ltd.**, email: pega@nb.sympatico.ca Web: <http://www3.nbn.net.nb.ca/vcsinc/tubes2.htm>
5. **Vacuum Tubes, Inc.**, 1080 Sligh Blvd, Orlando, FL 32806-1029 Phone: (407)481-9994
Web: <http://www.vacuumtubesinc.com/> email, jim@vacuumtubesinc.com

6. **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 Web: <http://www.vacuumtubes.com/>
7. **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>
8. **Antique electronic supply**, 6221 S. Maple Ave, Tempe, AZ 85283, Phone 800-706-6789, E-mail: info@tubesandmore.com, Web: <http://www.tubesandmore.com>
9. **Tom's Tubes**, W4TH, Thomas Hix, 190 East Hwy, Boaz, AL. 35957, <http://www.tomstubes.com/T>

TR-7 PIN DIODES (MPN3404 & UM9401):

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 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

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".

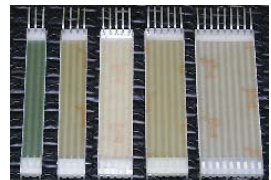
MRF455MP TR5 final transistors

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

MRF475MP TR7(A) amplifier driver transistors.

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.



ASTATIC D-104 MICROPHONE CRYSTAL CARTRIDGES:

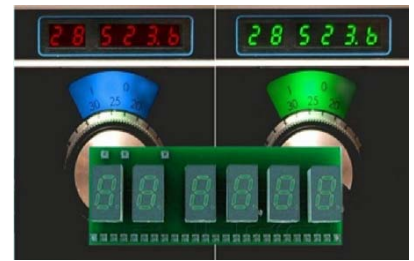
Mouser Electronics, Phone 800-346-6873, E-mail: SALES@MOUSER.COM, Part Number: #25LM022, Web: <http://www.mouser.com/>

MOUSER STOCK NO.	Fig.	Type Element	Freq. Resp. (Hz)	Impedance (Ω)	Sensitivity (dB)	Dimen. (In)	
						Dia.	Ht.
25LM021	A	Ceramic	100-7K	230K	-70	.85x.59	.34
25LM022	B	Crystal	50-8K	25K	-55	1.38	.46
25LM024	B	Crystal	50-8K	9K	-55	2.0	.65
25LM025	B	Crystal	30-15K	12K	-55	1.0	.42
25LM037	C	Ceramic	30-15K	8K	-60	1.0	.39

TR7 / R-7 REPLACEMENT DISPLAY:

http://members.bellatlantic.net/vze3rys4/TR7_Display/

For orders in the US and Canada, Robert Langston - W2ENY, 286 Hudson Street, Cornwall-on-Hudson, NY 12520 USA, or w2eny@yahoo.com For orders outside US/Canada, please visit: <http://www.df4nw.de> Willi Rass - DF4NW, Richard-Strauss-Str. 56, D-91315 Hoechstadt Germany, +49.9193.1826, or willibald.rass@t-online.de



Radio Repairs:

Jeff Covelli, WA8SAJ, Email: wa8saj@ncweb.com, Web: N/A

John Kriner, KA8GSP, Email: jkriner@cinci.rr.com Web: <http://www.siscom.net/~jandsuz/index1.htm>

Gary Poland (W8PU), 937 685-9323, gpoland1@cinci.rr.com, Web: home.cinci.rr.com/w8pu

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

