

Scanned and Prepared
by Dale H. Cook

Meissner

PRECISION BUILT PRODUCTS

COILS - COMPONENTS

FOR
TELEVISION, RADIO, MILITARY,
INDUSTRY AND AMATEUR

HI - FIDELITY

TUNERS - AMPLIFIERS
COMPLETE HOME MUSIC SYSTEMS

KITS

BATTERY, AC - DC, ALL BAND
AMPLIFIER, FM RECEPTOR
AND TRANSMITTERS



THORDARSON-MEISSNER

**MT. CARMEL, ILLINOIS
TELEPHONE 1200**

DISTRIBUTED BY

**GENERAL RADIO SUPPLY CO.
600 PENN STREET
CAMDEN 2, N. J. WO 4-8223**



ALPHABETICAL, NUMERICAL AND PRICE LIST

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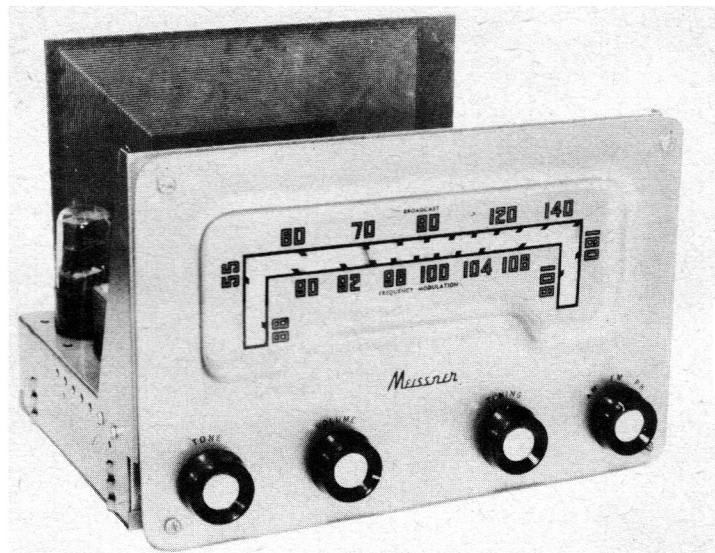
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2CW.	40.00	9	14-1077.	3.00	17	16-6655.	1.50	15	17-9373.	3.75	21	19-4412.60	14
3BK.	21.00	10	14-2436.	1.50	17	16-6656.	1.50	15	18-2940.	1.50	21	19-4500.60	14
4E.	71.25	6	14-2437.	1.50	17	16-6657.	1.50	15	18-2941.	1.50	21	19-4551. . . . .	.90	19
4EK.	50.00	11	14-2860.	5.00	20	16-6658.	1.75	15	18-2942.	1.50	21	19-4840. . . . .	.60	14
5A10.	110.00	8	14-2862.	5.00	20	16-6659.	1.75	15	18-2943.	1.50	21	19-5100. . . . .	.60	14
53-1.	1.50	9	14-3732.	1.25	17	16-6660.	1.75	15	18-2944.	3.00	21	19-5582.	1.30	19
6BK.	65.00	12	14-4034.	1.25	17	16-6661.	1.80	15	18-3500.	3.00	10	19-5584.	1.30	19
8BT.	123.75	3	14-4242.	1.50	17	16-6662.	2.50	15	18-3501.	3.00	10	19-5588.	1.30	19
8C.	110.00	6	14-4243.	1.50	17	16-6663.	2.50	15	18-3502.	1.50	10	19-5590.	1.50	19
8CC.	96.25	6	14-6590.	1.25	17	16-6665.	3.50	18	18-3503.	1.50	10	19-5592.	1.50	19
8CK.	72.00	12	14-6592.	1.25	17	16-6666.	2.20	15	18-3504.	1.50	10	19-5594.	2.00	19
T-32W00.	15.00	8	14-6850. . . . .	.48	16	16-6667.	2.20	15	18-3505.	1.50	10	19-5596.	2.00	19
T-32W10.	82.50	8	14-6852. . . . .	.42	16	16-6668.	2.40	15	18-3910.	5.50	9	19-6022. . . . .	.75	19
9AJ.	132.00	3	14-6854. . . . .	.42	16	16-6669.	2.40	15	18-3911.	5.50	9	19-6033. . . . .	.75	19
M-80	90.00	7	14-6856. . . . .	.42	16	16-6670.	2.70	16	18-3912.	5.50	9	19-6834.	1.14	19
9-1154.	300.00	4 & 5	14-6865. . . . .	.48	16	16-6675.	5.00	19	18-3913.	5.50	9	19-6840.	1.45	19
9-2201.	22.50	12	14-7000.	1.00	17	16-6678.	2.40	15	18-3914.	5.50	9	19-6842.	1.69	19
9693. . . . .	.80	10 & 21	14-7413.	3.00	17	16-6679.	2.60	16	19-1000. . . . .	.60	19	19-6844.	1.93	19
10-1191A.	37.00	11	14-7476.	5.00	20	16-6752.	2.40	16	19-1001. . . . .	.60	19	19-6846.	2.17	19
10-1199.	50.00	11	14-7478.	5.00	20	16-6754.	2.50	16	19-1002. . . . .	.60	19	19-6848.	2.78	19
10-1199A.	40.00	11	14-7480.	5.00	20	16-6758.	2.20	16	19-1003. . . . .	.60	19	19-6854.	1.50	19
11-8268.	23.55	7	14-7558.	3.00	17	16-6770.	2.30	16	19-1004. . . . .	.60	19	19-6860.	1.81	19
11-8269-1.	8.00	11	14-7560.	3.00	17	16-8091.	3.00	15	19-1005. . . . .	.60	19	19-6862.	2.05	19
11-8274.	15.00	12	14-8418. . . . .	.37	16	16-8099.	3.00	15	19-1020.	1.00	13	19-6864.	2.29	19
14-1004.	1.75	17	15-1003.	5.50	18	17-1000.	8.50	21	19-1021.	1.00	13	19-6866.	2.43	19
14-1005.	1.75	17	15-1072.	5.50	18	17-1001.	2.75	13	19-1022.	2.25	14	19-6868.	3.14	19
14-1010.	1.25	17	15-2866.	1.50	18	17-1002.	2.10	13	19-1576.	2.25	14	19-6872.	2.50	20
14-1011.	1.25	17	15-7510.	6.00	18	17-1003. . . . .	.75	13	19-1577.	2.25	14	19-6874.	2.75	20
14-1015.	7.00	20	15-7511.	6.00	18	17-1004. . . . .	.75	13	19-1900.	1.50	19	19-6876.	3.00	20
14-1016.	7.00	20	15-7512.	6.00	18	17-1011.	2.10	13	19-1920.	1.20	13	19-7047. . . . .	.75	19
14-1017.	7.00	20	15-7513.	6.00	18	17-1012.	2.10	13	19-1921.	1.20	13	19-7068. . . . .	.75	19
14-1022.	1.10	17	15-7514.	6.00	18	17-1013.	2.75	13	19-1922.	1.20	13	19-7100. . . . .	.75	19
14-1023.	1.25	17	15-7515.	7.60	18	17-1020.	2.75	13	19-1923.	1.20	13	19-7908.	1.30	19
14-1026.	2.20	17	15-7520.	6.00	18	17-1021.	2.75	13	19-1994. . . . .	.90	19	19-8770. . . . .	.90	19
14-1027.	2.20	17	15-8479.	2.00	18	17-1023.	3.00	13	19-1995.	1.00	19	20-1004.	1.25	13
14-1028.	2.20	17	15-8480.	2.00	18	17-1025.	2.75	13	19-2078. . . . .	.90	19	20-1005.	2.00	13
14-1030.	4.65	20	15-8481.	2.00	18	17-1031.	1.25	13	19-2330.	1.30	19	20-1006.	2.00	13
14-1031.	4.65	20	16-3445.	1.25	13	17-1033.	3.30	13	19-2709.	1.40	19	20-1021.	2.00	13
14-1032.	4.65	20	16-3471.	2.50	18	17-1043.	3.30	13	19-3001. . . . .	.60	14	20-1024.	1.40	14
14-1033.	1.10	17	16-3472.	2.50	18	17-1062.	1.50	13	19-3018.	4.00	21	20-1025.	1.40	14
14-1040.	2.50	17	16-3487.	2.50	18	17-1063.	1.50	13	19-3019.	4.00	21	20-1026.	1.40	14
14-1041.	2.50	20	16-3731.	2.50	15	17-1064.	1.50	13	19-3022.	4.00	21	20-1027.	1.40	14
14-1042.	2.50	20	16-3736.	2.50	15	17-1066.	1.10	13	19-3025.	4.00	21	20-1028.	1.75	14
14-1043.	2.50	20	16-5700.	2.50	15	17-1071.	2.75	13	19-3036. . . . .	.60	14	20-1029.	1.40	14
14-1044.	2.50	20	16-5702.	2.50	15	17-3400.	1.25	13	19-3075. . . . .	.60	14	20-1031.	1.10	14
14-1045.	2.50	20	16-5704.	2.50	15	17-3401.	1.25	13	19-3093. . . . .	.60	14	20-1032.	1.40	14
14-1046.	2.50	20	16-5706.	2.50	15	17-3402.	1.25	13	19-3100. . . . .	.60	14	20-1033.	1.40	14
14-1053.	1.10	17	16-5712.	2.50	15	17-3412.	1.25	13	19-3125. . . . .	.60	14	20-1034.	1.40	14
14-1056.	2.20	17	16-5714.	2.50	15	17-3484.	3.30	18	19-3160. . . . .	.60	14	20-1035.	1.75	14
14-1057.	2.20	17	16-5728.	3.30	15	17-3486.	3.80	21	19-3180.60	14	20-1045.	2.00	13
14-1058.	2.20	17	16-5730.	3.30	15	17-3487.	3.30	18	19-3204.	8.50	14	20-1046.	2.80	14
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Meissner



9AJ

AM - FM TUNER CHASSIS COMPLETE WITH AUDIO

The new MEISSNER 9AJ AM-FM Tuner and Amplifier Chassis is an excellent, yet modestly priced, unit for building a completely new console combination or for converting older radios, adding not only new AM but FM and a phono-graph combination as well. No low priced, "average" components are used anywhere.

Engineering of the entire 9AJ has been done with one thought in mind — high fidelity reception at unbelievably modest cost. To really appreciate its full tonal richness, hear the 9AJ when it is used with a quality speaker that's capable of reproducing its wide range and pure tones. We recommend the use of a high quality speaker with an output transformer having a primary impedance of 5000 ohms. Output of the MEISSNER 9AJ is a full four watts — more than ample for use in the largest home even with several speakers.

Model 9AJ — complete with tubes, power supply, built-in antenna, escutcheon, knobs, etc. **List Price \$132.00**

FEATURES THAT PUT THE 9AJ IN A CLASS BY ITSELF

△ Complete Provision for Phono Input △ All Controls on Front Panel △ High Selectivity and Sensitivity △ Full Audio Fidelity △ Temperature Compensated on FM △ New High "Q" Die-Stamped Loop for AM △ New Built-In Antenna for FM △ Terminals for External Antennas △ Full Tone Control △ Heavily Oversized Components △ Built-In Phono Switching △ Power Outlet for Phono Motor △ All Controls Operative on Phono △ Low Hum Level △ Air Wound FM Coils.

TUBE COMPLEMENT

6BA6 FM RF Amplifier	6BE6 AM Converter, Oscillator
12AT7 FM Osc. and FM Conv.	6AT6 AM Det., A.V.C. Diode and Audio Amp.
6BA6 AM and FM I.F. Amp.	6V6GT Power Amplifier
6BA6 FM I.F. Amplifier	5Y3GT Rectifier
6AL5 FM Detector	

SENSITIVITY: AM — 25 Microvolts. FM — 20 Microvolts.

FREQUENCY RESPONSE: ± 1 DB 20-20000 CPS.

(Output Requirements — Use Thordarson Output Transformer Model Type T-22S58.)

8BT

AM - FM TUNER CHASSIS (Less Audio)

IDEAL FOR CUSTOM INSTALLATIONS

Engineered to provide high fidelity reception at low cost To experience the 8BT's full tonal richness, it is strongly recommended that it be teamed with a high quality speaker and a high quality audio amplifier such as the MEISSNER 5A10 or the Thordarson T-32W10.

Everything is built into the 8BT for FM, AM and phono operation. Power outlet plug on the back to provide power for an external phono-graph motor. All controls are conveniently located on the front panel.

Two pilot lights, an attractive dial arrangement and expensive escutcheon blend harmoniously for that real "custom" look.

In all respects identical to the 9AJ except designed for high impedance output instead of audio output.

Model 8BT — complete with tubes, power supply, built-in antenna, escutcheon, knobs, etc. **List Price \$123.75**

SPECIFICATIONS

Chassis Size: 8" x 11" x 7 $\frac{3}{4}$ " high.

Minimum Inside Cabinet Dimensions: 10" deep x 11 $\frac{1}{2}$ " wide x 8" high.

Power Supply: 110-120 V. 50-60 C.P.S.

Output To $\frac{1}{2}$ Meg. Load: For min. usable signal — 3 V. Maximum output — 14 V.

Controls: 4. Tone — combination bass-treble, Volume (with AC switch), Band Switch AM-FM-PHONO. Tuning.

Tube Complement: 6BA6 FM RF Amplifier, 12AT7 FM Converter-Oscillator, 6BE6 AM Converter-Oscillator, 6BA6 AM-FM IF Amplifier, 6BA6 FM Driver, 6AL5 FM Detector, 6AT6 AM Detector and AVC Diode and Audio Amplifier, 6X5 Rectifier.

Antennas: Built-in AM and FM antennas with provision for connection of external antennas. (The AM loop is die stamped.)

Phono Input: For crystal pickup.

FM System: Features triode converter and ratio detector.

I.F. Coils: 2 AM — 2 FM — $\frac{3}{4}$ " permeability tuned.

Coils: Separate — Not Composite.

Temperature Compensation on FM.

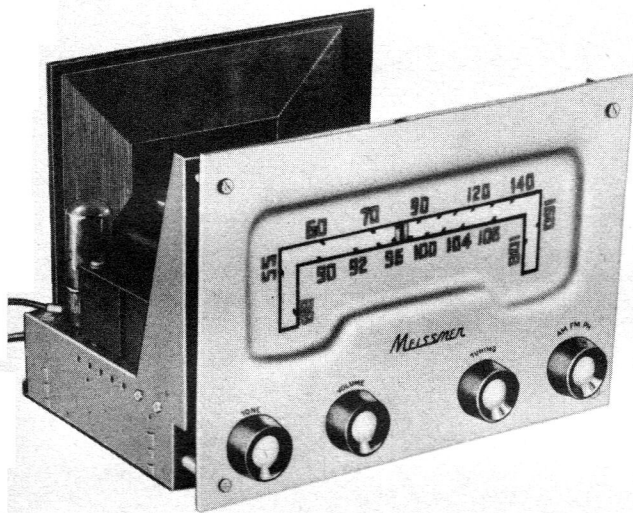
Sensitivity: AM — 25 UV. FM — 20 UV.

Frequency Response: ± 1 DB 20-20000 CPS.

Whether it's Bach, Brahms, Beethoven or boogie,
MEISSNER GOLDEN HI-FI MATCHED SYSTEM
 provides magnificent reception at the lowest possible cost.

With these units, gone is the principal difficulty
 encountered when selecting high fidelity equipment:
 the purchase of units that are sound and well-engineered
 in themselves but which cannot work faithfully
 into certain speakers, amplifiers or record players,
 thus destroying the principal object of the art—
 high fidelity at low cost.

No, one cannot go wrong with **MEISSNER
 MATCHED UNITS**. Everything is provided
 and everything is right.



GOLDEN AM-FM HI-FI TUNER

- *Front-End Engineering*
- *High Sensitivity and Selectivity*
- *Separate Coils*
- *Low Hum Level*
- *High Frequency Response*

The **MEISSNER GOLDEN HI-FI TUNER** chassis is the ideal unit for your hi-fidelity installation, providing everything you need in AM-FM-PHONO operation. A single audio stage is built into the tuner for high level output into the matched **GOLDEN HI-FI AMPLIFIER**. **MEISSNER** has gone all out to bring you really fine "front-end" engineering. The FM circuits are temperature-compensated to provide stable, no drift tuning. All circuits have separate coils, no composite type coils are used in the **GOLDEN HI-FI TUNER**. This highly selective, highly sensitive tuner has all controls on the front panel, providing full tone range control. The chassis, transformers, shields and other metal parts of the **GOLDEN HI-FI TUNER** come in a beautiful satin gold finish. In most localities the built-in high Q die-stamped AM antenna and built-in FM antenna will provide excellent reception, however, provisions for external antenna connections are built-in to the **GOLDEN HI-FI TUNER**. A large, attractive die-stamped combination dial scale and escutcheon in golden Plexiglass is furnished for your installation. For those interested in technical specifications, here are some outstanding features of the **GOLDEN HI-FI TUNER**: • Very low hum level • Full bass-treble

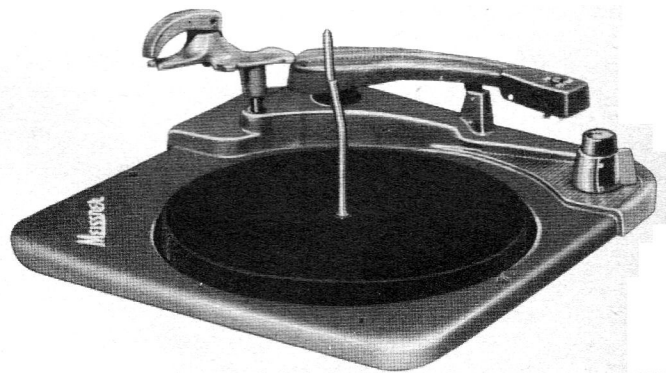
High

WITH

THORDARSON-MEISSNER,
 pioneers in high fidelity equipment and their
 staff of experienced electronic engineers pro-
 vide completely packaged "matched" units,
 that are designed to work faithfully and
 efficiently into each other electronically, yet
 provide advanced, matched styling and flexi-
 bility combined with the ultimate in high
 fidelity at reasonable cost.



tone control • IF coils permeability tuned • FM coils
 airwound • Full audio fidelity • Frequency response ± 1
 DB thruout 20 to 20,000 C.P.S. range • Sensitivity en-
 gineered to provide minimum noise while tuning and maxi-
 mum band width • Built-in 110 V AC power supply • Tube
 complement: 6BA6 FM RF. AMP., 12AT7 FM OSC. MIXER,
 6BE6 AM OSC. MIXER, 6BA6 AM-FM IF. AMP., 6BA6,
 FM DRIVER, 6AL5 FM DET., 6AT6 AM DET. AVC.
 AUDIO, 6X5 RECT. Chassis size is 8" x 11" x 7 $\frac{1}{4}$ " high.
 Comes complete with tubes, knobs, all hardware and custom
 escutcheon.



GOLDEN HI-FI PHONO-CHANGER

- *33 - 45 and 78 RPM*
- *New Velocity Trip Mechanism*
- *Muting Switch*
- *GE Variable Reluctance Triple Play Cartridge*
- *Hi-Fidelity Response*

To complete your **GOLDEN HI-FI** installation, the finest phono-changer is a **MUST**. Here it is! Many years of experience dictate that the changer be a "push-off" type, considered the most gentle, fast and fool-proof method of changing records. An entirely new velocity trip mechanism is used in the **GOLDEN HI-FI CHANGER** to assure fool-proof, jam-free operation with a minimum of lateral needle pressure. One single, conveniently located speed control knob gives you the speed you want, either 33 — 45 or 78 RPM. An exclusive "muting switch" automatically silences the amplifier during the change cycle. The extra-heavy base

Fidelity Music in your home...

MATCHED GOLDEN UNITS

plate is 18 gauge steel, of truss-type construction that will never warp. The turntable has an extra thick electrostatically flocked carpet, providing an extremely soft cushion for your precious records. It is only natural that the GOLDEN HI-FI CHANGER uses a GE variable reluctance triple play cartridge to give you the utmost in HI-Fidelity response. The GOLDEN HI-FI CHANGER is a beauty in appearance, construction and operation. A truly fit companion to the GOLDEN HI-FI TUNER, AMPLIFIER and SPEAKER units. A wooden template base, properly cut out is furnished for mounting your GOLDEN HI-FI CHANGER.



GOLDEN HI-FIDELITY AMPLIFIER

- Selective Switch Provides 250 or 450 Cycle Cross-over
- Low Hum Level
- 10 Watts Undistorted Output
- Built-In Pre-Amplifier
- Response 20 to 20,000 C.P.S.

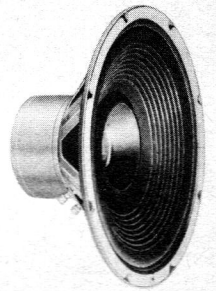
The GOLDEN HI-FIDELITY AMPLIFIER is the result of many years experience in this field by THORDARSON-MEISSNER, a truly great name in high fidelity. This versatile amplifier has an undistorted power output of 10 watts, yet the hum level is unbelievably low (-70 DB. down), making it perfectly suited to the most critical home installation. The GOLDEN HI-FIDELITY AMPLIFIER driving a fine speaker like the GOLDEN HI-FI COAXIAL SPEAKER, furnishes hi-fidelity reproduction you've always dreamed of but never had before. The frequency response of the GOLDEN HI-FI AMPLIFIER is flat \pm DB. thruout the range of 20 to 20,000 cycles per second. Separate bass and treble tone controls provide boost or attenuation to suit your taste. A regular medium level high impedance input circuit is built into the GOLDEN HI-FI AMPLIFIER and at the flip of a switch a separate pre-amplifier-equalizer, with selective cross-over, goes to work to give you a full output from a variable reluctance pickup. The output transformer was especially designed by THORDARSON and has 4, 8 or 16 ohm output,

which is a perfect match for the GOLDEN HI-FI SPEAKER in either single or multiple speaker installations.

Size: 11" x 8" x 5½". Weight 10¼ lbs. Comes complete with five tubes, matched escutcheon and mounting hardware.

GOLDEN CO-AXIAL SPEAKER

- Reproduce Those Bass Notes and Highs Too



The 12 inch GOLDEN HI-FI SPEAKER is really two speakers in one: a coaxial. Of recent design, it combines the tweeter and woofer elements in one speaker. The two coaxially mounted cones divide the audio spectrum and are driven by a single 8 ohm voice coil. A built-in mechanical "cross-over" at 4500 C.P.S. permits the design of each cone for perfect reproduction.

The GOLDEN HI-FI SPEAKER is a worthy companion to the GOLDEN HI-FI AMPLIFIER. Hi-fidelity enthusiasts know that for true response the speaker must be capable of handling nearly twice the undistorted output power of the amplifier, which is true of this matched combination. Power handling capacity of the speaker is 15 to 20 watts of clean, wide-range audio. Frequency response of the speaker is flat within \pm 6 DB. over the very wide frequency range. The heavy Alnico V magnet (one lb. rated pull) provides high driving power and unusually good damping. Overall dimensions: 12½" diameter, 6½" depth. Requires 11" baffle opening. Speaker escutcheon in beautiful satin gold finish. Matching grill cloth is furnished.

- Easy Installation
- Everything Furnished
- Matched Styling Of All Units

MATCHED GOLDEN HI-FI units come complete with all mounting hardware . . . matched knobs and escutcheons, picture frame speaker escutcheon, grill cloth, wooden mounting plate for record changer, proper impedance matched cables, plugs, jacks — *everything* necessary for an efficient, time saving installation.

All Four Units complete with escutcheons, mounting hardware, etc., Model 9-1154 . . . List Price \$300.00

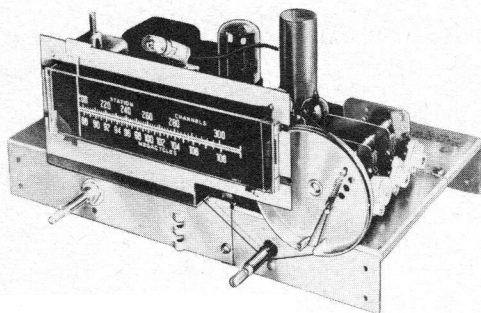


Meissner



8C
(WITH CABINET)

8CC



8C FM RECEPTOR

ADDS SUPERB FREQUENCY MODULATION TO ANY REGULAR AM SET

The MEISSNER Model 8C FM Receptor is a precision built instrument, designed for simple connection to your present AM radio . . . instantly converting it to a thrilling new AM-FM set. The new MEISSNER provides the supreme listening thrill that comes when you hear the music of your choice reproduced with full-scale fidelity, sensationally free from static, station-interference and fading.

MEISSNER Model 8C can also be used with older AM-FM sets to provide full coverage of the 88-108 Mc. FM band . . . or used with Phono Amplifiers . . . or with Public Address Systems . . . giving, in each case, the finest in FM reception.

A phono switch is provided to permit the convenient use of your record player. A convenient 110-volt power outlet is located on the back of the chassis.

See and hear the new MEISSNER. The dealer in your locality will be glad to introduce this outstanding instrument to you.

SPECIFICATIONS

Frequency Range: FM band, 88 to 108 Mc.

Audio Fidelity: Flat within ± 1 DB 20-20000 cps.

Sensitivity: 40 microvolts.

Audio Output: 3 volts R.M.S. at minimum usable signal input, 30% modulation. For greater signal inputs, output voltages as high as 15 volts R.M.S. obtained without distortion.

If the 8C is not used in connection with a radio receiver any high quality audio power amplifier may be used (see amplifiers T-32W10 & 5A10), which has high impedance input and will produce full output with 3 volts R.M.S. audio input.

Antenna Input Impedance: 300 ohms.

Controls: Tuning control and combination volume control-line switch and phono feed-thru switch.

Dial: Slide rule, 5-1/2" x 1-3/8", calibrated in megacycles and in channel numbers.

Cabinet Dimensions: 12-3/4" wide x 8" deep x 6-3/4" high.

Power Supply: 105 to 125 volts, 50 or 60 cycle A.C. Consumption, 35 watts.

Tube Complement: 2 type 6AG5, 2 type 6BA6, 2 type 6C4, 1 type 6AL5 and 1 type 6X5GT/G

Model 8C — with cabinet List Price \$110.00

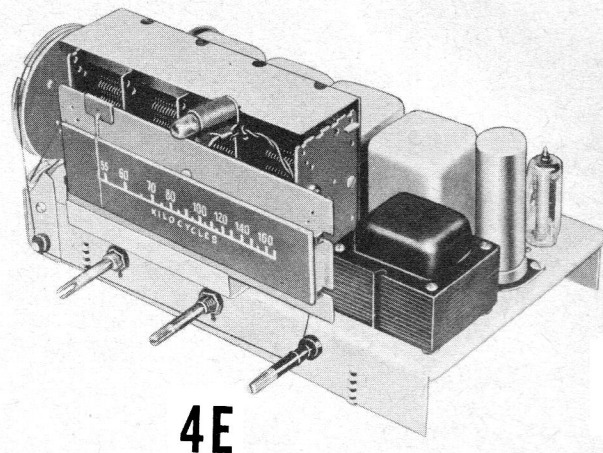
8CC

IDEAL FOR CUSTOM INSTALLATION

(Available Less Cabinet)

The popular 8C is widely used for custom installation when highest quality FM reception is desired. Available less cabinet, for this purpose, it's known as the Model 8CC.

Model 8CC — FM Receptor Chassis, assembled and wired with Tubes (less cabinet) Weight 4 1/2 lbs. List Price \$96.25



4E

TUNED RF BAND-PASS TUNER

All the tones the human ear can ever hear! Yes, that's the remarkable fidelity MEISSNER's new Model 4E Tuned RF Band-Pass Tuner brings to AM broadcast reception when it is teamed with a high fidelity amplifier.

Unlike a superhet, the Tuned RF Band-Pass Tuner passes the entire tonal range — provides fidelity reception you never thought possible on AM.

The 4E Tuner is entirely free of whistles and images. Skirt selectivity is extremely good because this instrument has four tuned RF circuits plus one broad band untuned circuit.

The 4E has a much better signal to noise ratio than the conventional superhet receiver. Filtering is excellent resulting in extremely low hum level.

The MEISSNER 4E contains large, oversize components, is tuned with a heavy four gang condenser.

Comes complete with phono input and output receptacles and necessary front panel control.

Also Available in Kit Form

(MEISSNER Model T4EK — See Page 11)

For Best Results Use with Thordarson T 32W10 or Meissner 5A10
Model 4E — Tuned RF Band-Pass Tuner . . . List Price \$71.25

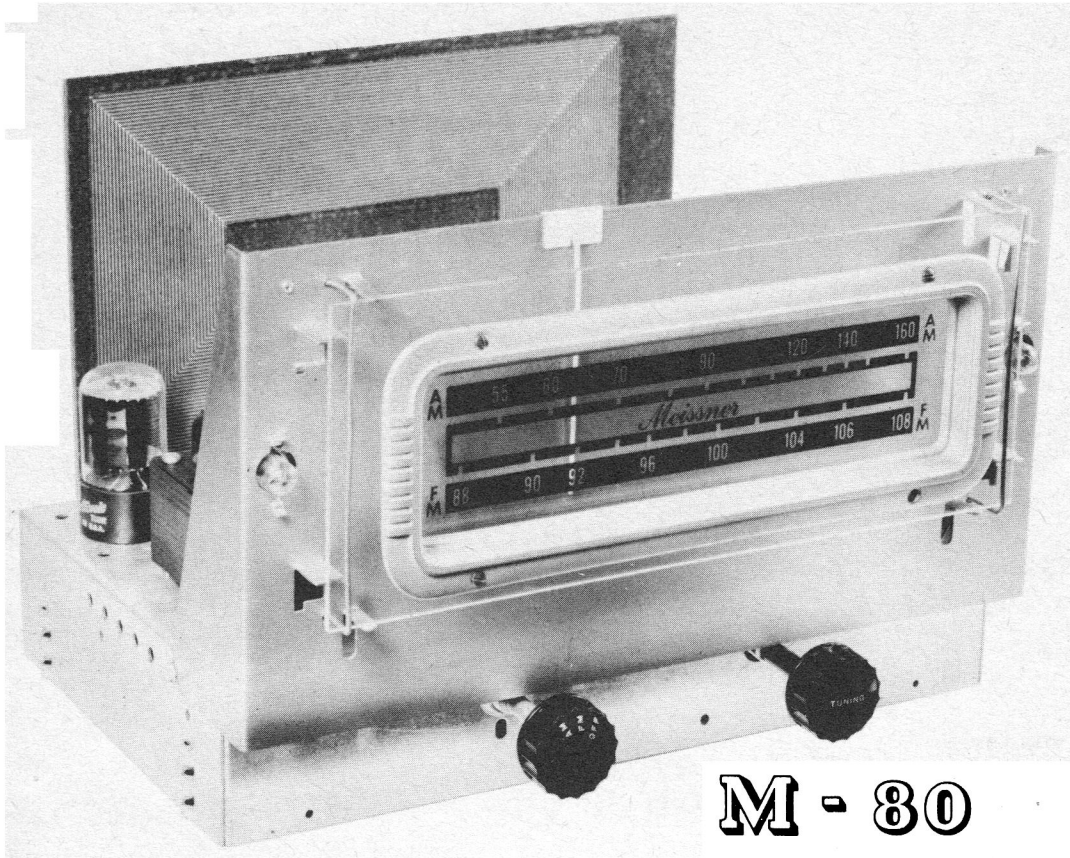
FEATURES

- Designed for simple connection to phono Amplifier or P.A. system.
- Frequency range 540-1620 Kc.
- Circuit T.R.F. Band-pass. Bandwidths 13 Kc. @ 600 Kc.; 30 Kc. @ 1400 Kc.
- Audio frequency response flat ± 2 db. 40 to 15,000 cycles.
- Undistorted output — 2 V with minimum usable signal; 15 V maximum.
- Dial — slide-rule.
- Controls (1) On-Off-Volume, (2) Radio-Phono, (3) Tuning.
- Note: The audio amplifier and the volume control are in operation on "Phono."
- Power supply 110-120 V 50-60 cycles.
- Size: 11" x 7" x 5" high.
- Note: Will mount in MEISSNER No. 11-8274 cabinet (MEISSNER 8C cabinet).
- Shipping weight — 8 lbs.
- Power consumption: 25 watts.
- Hum output: 2 millivolts.
- Tubes: Two 6BA6 R.F. Amplifiers; one 6AT6 Detector — Audio Amplifier; one 6X4 Rectifier.

10 Kc. Filter — The MEISSNER No. 15-7520 10 Kc. filter is available. May be necessary in some locations to eliminate adjacent channel interference which occurs in all broad band broadcast tuners.



Meissner



M - 80

NEW AM-FM TUNER CHASSIS

A new, sensationally low cost, high quality, high fidelity tuner in the line of "experience-proven" famous MEISSNER tuners, to provide thrilling AM and FM reception at a price far below that which you would expect for such magnificent performance.

For fullest enjoyment of this fine instrument, we recommend its use with the famous MEISSNER 5A10 high-fidelity 10 watt audio amplifier.

The MEISSNER M-80 is engineered to provide an absolute minimum of controls, eliminating those controls which are found on most modern amplifiers, thereby saving you the cost of expensive duplication.

Two dial scales, one for horizontal mounting (as pictured above) and the other for alternative vertical mounting, are furnished, together with two pilot lights and a handsome metal escutcheon to give you the full beauty of an expensive looking "custom" installation.

MODEL M-80

Complete with tubes, two dial scales, knobs, escutcheon, etc.-----

LIST....\$90.00

QUALITY FEATURES

Two "slide rule" unbreakable dial scales for horizontal or vertical mounting.

FM circuit is temperature compensated for absolute minimum "warm-up" drift.

High selectivity and sensitivity.

Built in AM-FM antenna with provision for external AM and FM antennas.

Advanced design tuner for high fidelity AM-FM reception.

FM system features triode converter and ratio detector.

All circuits have separate coils - no "composites" are used - all components are rugged and heavily oversized.

SPECIFICATIONS

Chassis Size: 8" X 11" X 7 3/4" high.

Power Supply: 110-120 v; 50/60 cps. A. C.

Tubes: 6BA6, 12AT7, 6BE6, 6BA6, 6BA6, 6AL5, 6AT6, 6X5 rectifier.

I F Coils: 2 AM and 2 FM, 3/4" permeability tuned.

Sensitivity: 25 uv on AM; 20 uv on FM.

Frequency Response: ±1 DB from 20 to 20,000 cps.



Meissner



MEISSNER 10-WATT HIGH FIDELITY AMPLIFIER-PREAMPLIFIER NO. 5A10

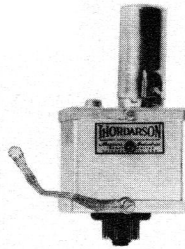
5A10



Complete with golden plexiglass escutcheon and mounting hardware. This is the famous amplifier-preamplifier used in the Meissner Golden Matched System. See page 5 for details and full description.

5A10. LIST PRICE \$110.00

THORDARSON PREAMPLIFIER NO. T-32W00

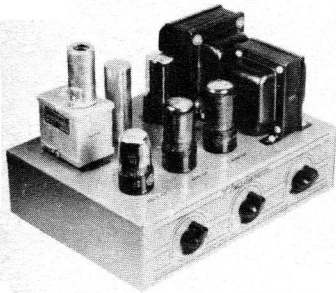


T-32W00

Thordarson "Plug in" High Fidelity Preamplifier to be used with Thordarson T-32W10 amplifier described below. Ideal for use with magnetic reluctance type pickup cartridges.

T-32W00. LIST PRICE \$15.00

THORDARSON HIGH FIDELITY 10 WATT AMPLIFIER T-32W10



T-32W10

With the many years of Thordarson amplifier experience behind the T-32W10 it is understandable that this amplifier is one of the most versatile units available.

Ten full watts of undistorted audio power makes this amplifier suitable for most indoor applications and many outdoor events.

Flat frequency response (± 1 db. 20-20,000 cps.) gives high fidelity reproduction of sound.

Bass and treble controls in the amplifier permit adjustments to compensate for possible inadequacies in the speaker.

The exceptionally low hum level accounts for the amplifier's preferred use in homes for phono amplification and elsewhere when only a minimum of audio power is desired.

To increase the versatility to the utmost a special plug-in pre-amplifier makes it possible to use the magnetic reluctance type of phono pickup arm or low level microphone. The amplifier contains a socket which is completely wired for the acceptance of the T-32W00 pre-amplifier, thereby eliminating the necessity of any further wiring for the use of the pre-amplifier.

PERFORMANCE CHARACTERISTICS

Power Output: 10 Watts or +32.2 DB. Harmonic distortion less than 2%
Intermodulation distortion under 8%.

Frequency Response: ± 1 DB 20-20,000 cps.

Input Channels: One medium level high impedance (1 meg) input channel is provided. Gain: 69 DB. Sensitivity: 1.1 volts required to drive the amplifier to full output. An additional octal socket is provided to accommodate a T-32W00 Plug-in Pre-amp. and equalizer stage when operating with a magnetic reluctance pickup cartridge. Pre-amp. can also be used to supply the additional amplification required when a microphone signal source is employed.

Tone Control: Treble control provides a boost of + 10 DB at 10,000 cps., or an attenuation of - 20 DB at 10,000 cps. Bass control provides a maximum boost of + 8 DB at 100 cps. The AC line switch is mounted on this control.

Output Impedances: 4-8-16 ohms.

Hum Level: - 70 DB below rated output.

Tubes: 1 - 6SL7 GT. 2 - 6V6 GT, 1 - 5Y3 GT.

Power Requirements: 70 Watts, 105-125 Volts, 50/60 Cycles.

Dimensions: 10 $\frac{1}{4}$ " x 7 $\frac{3}{8}$ " x 2 $\frac{3}{4}$ ". Mounting brackets are provided.

Net Weight: 10 75 lbs.

Type Number

List Price

T-32W10 \$82.50

T-32W00 15.00



Meissner



MEISSNER "HOW TO BUILD" INSTRUCTION MANUAL



We proudly present — for the first time anywhere — the up-to-date modern edition of the world famous "HOW TO BUILD" Manual.

Previous editions of the "HOW TO BUILD" ran into the hundreds of thousands and it has been widely acclaimed as the most informative manual of its kind ever published.

NOW — due to the recent merger of two great names in radio and electronics — the "HOW TO BUILD" has been greatly enlarged and expanded to include a wealth of information covering THORDARSON'S 58 years of experience in the field of transformers, filters, reactors, chokes, transmitters and amplifiers.

The combined efforts of MEISSNER and THORDARSON engineering staffs and practical technical writers have produced, under one cover, a new, enlarged "HOW TO BUILD" manual designed not only to replace previous editions but offering a whole new, complete field of construction information and valuable, lasting design and circuit application data for beginners, advanced experimenters, servicemen and instructors.

The new, modern "HOW TO BUILD" includes basic theory, design and specific and general construction information on:

- △A.M. Circuits
- △F.M. Circuits
- △Phono Pickups
- △Audio Amplifiers
- △Speakers
- △Disc Recorders
- △Selection of Transformers
- △Construction of Power Supplies
- △Construction of Transmitters
- △Construction of Photoflash Power Pack
- △Scores of circuit diagrams covering varied applications, such as test equipment, converters, key click filters, electronic metronomes, capacitive relays, oscillators, to mention just a few.

The "HOW TO BUILD" covers the major components of any electronic circuit, giving the reader confidence in the selection of parts for his unit. It includes all color coding for transformers, coils, condensers and resistors, also television test patterns, correct methods of alignment and suggestions for elimination of T.V.I. in the Signal Shifter.

Theory text is simply written in easy-to-read form, well indexed and so arranged to hold the interest of beginners, advanced students, servicemen and instructors alike.

Fully illustrated, with charts, radio formulae, schematics, circuit diagrams and pictorial wiring diagrams.

Ideal for anyone interested in radio and electronics, the new, enlarged edition of the "HOW TO BUILD" Manual is your best buy — a valuable and permanent addition to your library which you will use over and over again.

"HOW TO BUILD" Instruction Manual — 53-1 — Net Price \$1.50.

THE NEW MEISSNER NOVICE TRANSMITTER KIT NO. 2-CW

The Meissner 2-CW Novice Transmitter Kit is especially designed for the beginning amateur or novice. Normally operated on AC it can be readily converted to DC or battery operation for emergency or portable use. Ease of assembly and simplicity of operation have been built into this kit by utilizing the cumulative experience of years of engineering kits and amateur transmitters.

Basically the 2-CW is a crystal controlled tetrode oscillator. It is a "straight forward" circuit, keying the cathode, with a self contained power supply designed to cut "chirping" to a

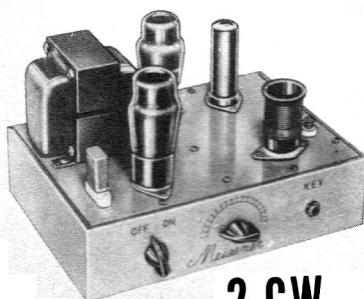
minimum. Coils are of the plug-in type and are interchangeable for band switching.

The 2-CW conservatively delivers 6 watts of R. F. into the antenna on the 3.5-4.0 Mc band, which includes the novice section of 3.7-3.75 Mc. With proper crystal and coil, operation is possible on 7.0-7.3, 14.0-14.4, 21.0-21.45 and 26.96-29.9 Mc.

The coil supplied with this kit is for 3.5-4.0 Mc (80 meter novice band) operation. Coils for other bands are listed as accessories. The crystal is not supplied but is readily available from local dealer.

Ease of assembly and breadth of operation of the kit is its feature. Complete assembly and wiring instructions show the beginner how to construct the kit and at the same time teach him techniques which are applicable to more advanced construction. By making operation possible on 5 bands applicable to AC or emergency power this kit has versatility unsurpassed in its field. By building the kit the novice as a beginner learns by doing and the old timer is afforded an excellent one evening project making himself a standby transmitter.

Overall Dim. 6¼" x 10½" x 7¼". Shpg. Wt. 7½ lbs. List Price \$40.00



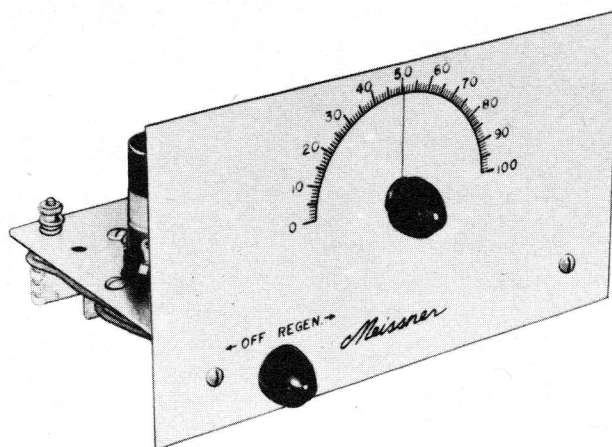
2-CW
(ASSEMBLED)

Accessories Type Number	Description	List Price
18-3914	80 meter coil	5.50
18-3913	40 meter coil	5.50
18-3912	20 meter coil	5.50

Accessories Type Number	Description	List Price
18-3911	15 meter coil	5.50
18-3910	10 meter coil	5.50



Meissner



T2BK BATTERY TRAINER KIT

The MEISSNER Model T2BK Battery Trainer Kit is a radio receiving set that brings in not only standard broadcast stations but police calls, amateurs, short wave code, aircraft and foreign stations. Easy-to-follow detailed pictorial diagram and simplified schematic make assembling a joy. Only simple hand tools are needed for assembly.

The circuit of this radio kit incorporates a regenerative grid leak detector with resistance coupled pentode audio stage and any "old timer" in the radio game will tell you that means Sensitivity — Power!

Similar in appearance to the T3BK at right, the T2BK kit uses two modern low-drain tubes, 1 type 1T4 and 1 type 3V4 included with the kit. Coil to cover the broadcast range is also furnished and additional coils may be ordered to cover the ranges described below.

The completed set is easy to operate with only 2 controls—a combination regeneration control-battery switch and the vernier tuning control. The easy-to-read dial includes a 1½" pointer swinging through 180 degree arc over a scale graduated 0 to 100.

Shipped less headphones, batteries, wire and solder. Use any good quality magnetic type phones having an impedance of 1,000 ohms or more.

Actual weight of kit is 1½ lbs. and the assembled set is 7¾" x 4¼" x 4½" deep.

Requires one 4½ volt "A" battery and one 90 volt "B" battery.

Model T2BK List Price \$17.50

T3BK AC - DC TRAINER KIT

Ideal for schools, radio clubs, as well as the beginning hobbyist — the MEISSNER Model T3BK AC-DC Trainer Kit offers complete instruction in many radio receiver fundamentals.

Three modern tubes (one type 6BJ6 and two type 50B5) are incorporated in this sensitive and powerful receiver. The pentode (beam-power) audio stage is resistance coupled to a regenerative grid leak detector. The AC-DC power supply (105 to 125 volts) means that this set may be operated almost anywhere.

Easily assembled from detailed pictorial diagram and simplified schematic, the Model T3BK kit is shipped complete with tubes, and hardware, with punched chassis and panel, less wire and solder.

When assembled, the receiver — operated by only two controls, a combination regeneration control-line switch and vernier tuning control — weighs just 1¾ lbs. and is 7¾" x 4¼" x 4½" deep.

Shipped less phones. Use any good quality magnetic type headphones having an impedance of 1,000 ohms or more.

Coil to cover the broadcast band furnished with kit. Other coils available to cover the ranges described below.

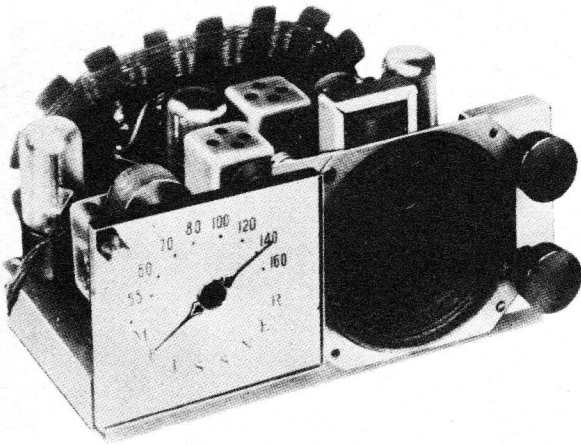
Model T3BK List Price \$21.00

PLUG-IN COILS FOR T2BK AND T3BK KITS

Model		List Price
9693	Replacement Coil Socket	\$.80
18-3500	175 to 540 Kc Plug-In Coil	3.00
18-3501	540 to 1500 Kc Plug-In Coil	3.00
18-3502	1.4 to 4.5 Mc Plug-In Coil	1.50
18-3503	3.2 to 8.2 Mc Plug-In Coil	1.50
18-3504	8 to 18 Mc Plug-In Coil	1.50
18-3505	15 to 34 Mc Plug-In Coil	1.50



Meissner

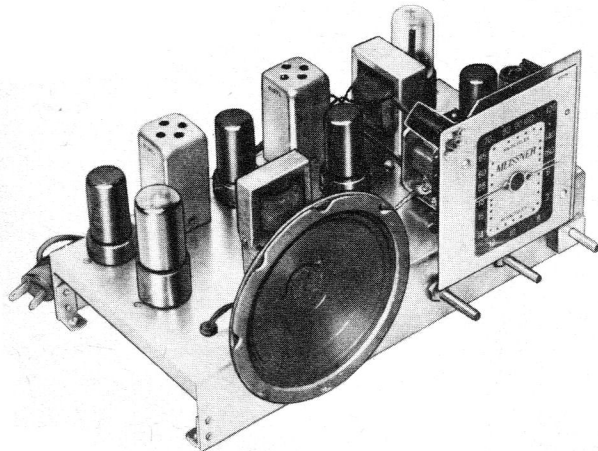


T10-1191-A SUPERHET KIT, BROADCAST BAND

This easily-constructed receiver covers the entire broadcast band from 540 to 1600 Kc with unusual volume and clarity. The handsomely finished metal dial is calibrated in kilocycles and is illuminated by a pilot light. The set is tuned by means of a cable-driven dial assembly. Full power range is provided by a volume control which includes the On-Off switch.

A factory-wound loop antenna feeds directly into the mixer-converter tube and provides high-gain reception. All component parts supplied are of the highest quality. Assembly is simple and only a screwdriver, pliers, and soldering iron are necessary. Complete, illustrated directions. Tubes used are 12SA7 mixer-oscillator, 12SK7 I. F. amplifier, 12SQ7 diode detector and first audio, 50L6GT beam power output, plus a 35Z5GT rectifier. Operation is from any 105-125 volt source, either DC or 50-60 AC. Complete with speaker and tubes.

No. T10-1191-A Superhet AC-DC Kit (less wire and solder)..... List \$37.00
No. 11-8269-1 Beige Bakelite Cabinet For Above..... List \$8.00

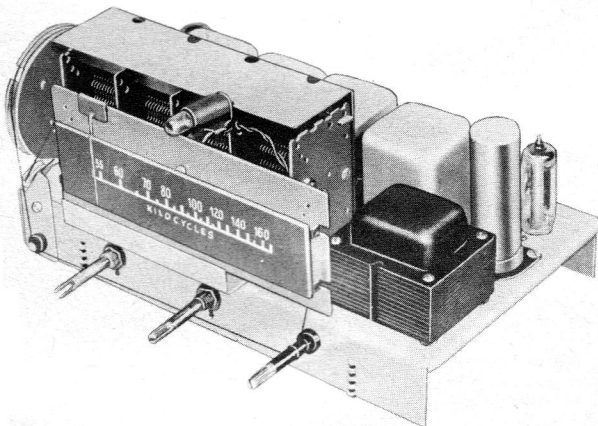


T10-1199 & T10-1199A SUPERHET KIT, B. C. and S. W. BANDS

Frequencies covered by this broadcast and short-wave receiver kit are 550 to 1600 kilocycles and 6 to 18 megacycles. The shortwave band includes foreign stations, government, commercial, and amateur services. Fully illustrated instructions make this set easy to assemble with only pliers, screwdriver, and soldering iron.

Circuit stability and operating ease are achieved by high-quality components and careful circuit design. A filter choke provides hum-free output without power loss and an I. F. wave trap eliminates troublesome 456 Kc interference. Large 5-inch speaker for extended audio response without distortion. Tubes employed are 12SK7 R-F amplifier, 12SA7 oscillator-mixer, 12SK7 I. F. amplifier, 12SQ7 detector, AVC, and audio amplifier, 35L6GT beam power output, plus a 35Z5GT rectifier. Pilot light for dial illumination. 105-125 volt, DC or 50-60 cycle AC operation.

No. T10-1199 Superhet 2-Band Kit with speaker and tubes, (less wire and solder)..... List \$50.00
No. T10-1199A Essential Kit For Above (less tubes, wire and solder)..... List \$40.00



T4EK TUNED RF BAND-PASS TUNER KIT

This outstanding instrument, easily assembled by following detailed instructions which come with kit, provides highest fidelity reception — has greater tonal range than most broadcast stations!

(Also Available Completely Assembled — See Page 6)

LOOK AT THESE FEATURES!

- Simple connection to phono Amplifier or P. A. system.
- Frequency range 540-1620 Kc.
- Circuit T.R.F. Band-pass. Bandwidths 13 Kc @ 600 Kc.; 30 Kc. @ 1400 Kc.
- Audio Frequency response flat ± 2 db. 40 to 15,000 cycles.
- Undistorted output — 2 V with minimum usable signal; 15 V maximum.
- Controls (1) On-Off-Volume, (2) Radio-Phono, (3) Tuning.
Note: The audio amplifier and the volume control are in operation on "Phono."
- Size: 11" x 7" x 5" high.
Note: Will mount in MEISSNER No. 11-8274 cabinet (MEISSNER 8C cabinet).
- Hum output: 2 millivolts.
- Tubes: Two 6BA6 R.F. Amplifiers; One 6AT6 Detector — Audio Amplifier; One 6X4 Rectifier.

Model T4EK Tuned RF Band-Pass Tuner Kit (Less wire and solder)
List \$50.00



Meissner



T6BK

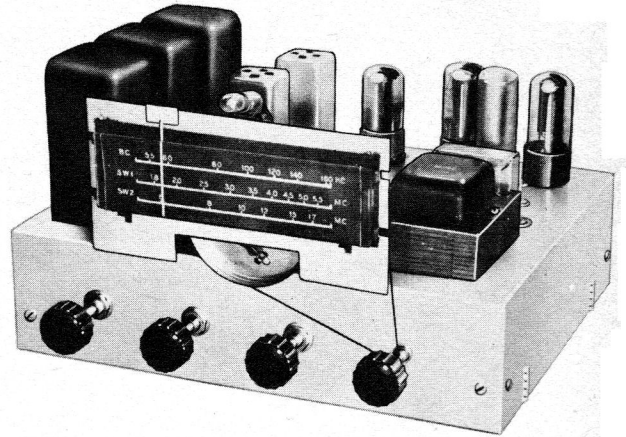
3 BAND AC KIT

For the more advanced radio student or hobbyist.

Examine the features offered in this new, up-to-date MEISSNER receiver kit: • 6 Modern Tubes — (2 type 6SK7, 1 type 6SA7, 1 type 6SQ7, 1 type 6V6GT and 1 type 5Y3GT) • Sensitive Super-heterodyne circuit — (15 microvolts on all bands) • Powerful “beam-type” amplifier — 3 watts output • 535 Kc. to 18 Mc. in 3 overlapping bands • Intermediate frequency — 456 Kc. • Continuous tone control • Easy-to-read slide rule dial, 5½” x 1⅜”, calibrated in megacycles on all three bands! Dial edge lighted • Husky “transformer-type” power supply (105 to 125 and 210 to 250 volts — 50 to 60 cycle) • BIG! Chassis 12” x 10” x 3” will fit into any cabinet with inside mounting space 12½” x 11½” x 7¼” • Professional “factory-built appearance” • Easily assembled from detailed pictorial diagram and simplified schematic • Use any good quality PM type speaker with an impedance of 3.2 ohms and the ability to handle the power of this set.

Supplied with tubes, less speaker, wire and solder.

Model T6BK 3 Band AC Kit..... List Price \$65.00



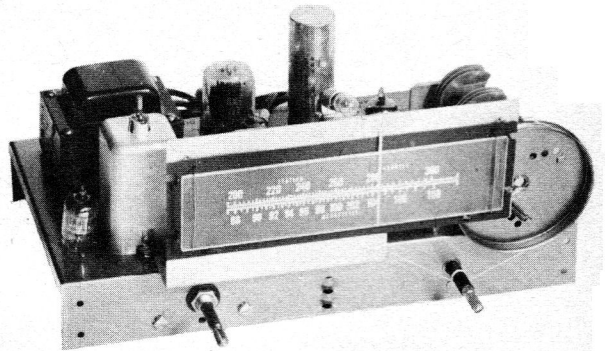
T8CK

FM RECEPTOR KIT

The MEISSNER FM Receptor is now available in fun-to-build kit form. Similar in features to the Model 8C when completed. The Model T8CK FM Receptor Kit is readily assembled by the use of easy-to-follow pictorial diagram and simplified schematic. Front end is factory assembled and aligned. I. F. coils pre-aligned. With matched set of Tubes, less wire and solder. Weight, 4½ lbs.

No. T8CK FM Receptor Kit..... List Price \$72.00

No. 11-8274 Cabinet for above kit or chassis..... List Price \$15.00



9-2201

RF HEATER SUPPLY

To eliminate the 60 cycle hum which is normal in most A. C. amplifiers, we have designed a 100 KC filament supply for the pre-amplifier tube. This truly eliminates hum, as 100 KC is well above the range of audibility. Easy to install, this hum eliminator will greatly enhance your listening pleasure.

No. 9-2201 RF Heater Supply..... LIST PRICE \$22.50





Meissner



TELEVISION AND F. M. I. F. TRANSFORMERS

Type No.	Price List	Fig.	Schematic Pages 22-23	Use	Freq MC	MTG	Dimensions	
							H	W X D
17-1001	\$2.75	ST	36	1st Video Amplifier	Tune 25.3 Trap 27.25	15/16	2-1/4	15/16 X 15/16
17-1002	2.10	ST	36	2nd Video Amplifier	Tune 22.3 Trap 19.75	15/16	2-1/4	15/16 X 15/16
17-1003	.75	IF	3	3rd Video Amplifier	Tune 25.2	5/16 hole	1-1/8	5/16 DIA
17-1004	.75	IF	3	4th Video Amplifier	Tune 23.4	5/16 hole	1-1/8	5/16 DIA
17-1062	1.50	IF	7	2nd Video Amplifier	Tune 25.7	5/16 hole	1-1/2	3/8 DIA
17-1063	1.50	IF	7	3rd Video Amplifier	Tune 23.4	5/16 hole	1-1/2	3/8 DIA
17-1064	1.50	IF	7	4th Video Amplifier	Tune 25.7	5/16 hole	1-5/8	3/8 DIA
17-1066	1.50	IF	19	Video Amplifier Pri Shunt 22K ohms	Tune 21.5	5/16 hole	1-1/2	3/8 DIA
17-1011	2.10	ST	44	Input Sound Amplifier	Tune 21.25	15/16	2-1/4	15/16 X 15/16
17-1012	2.10	ST	44	Output Sound Amplifier	Tune 21.25	15/16	2-1/4	15/16 X 15/16
17-1013	2.75	ST	51	Sound Discriminator	Tune 21.25	1-1/8	1-3/4	1-1/8 X 1-1/8
17-1020	2.75	ST	53	Converter	21.8	15/16	2-1/4	15/16 X 15/16
17-1025	2.75	ST	40	Sound Takeoff	4.5	15/16	1-1/2	7/8 X 7/8
17-1031	1.25	ST	31	Sound Takeoff	4.5	15/16	1-1/2	7/8 X 7/8
17-3402	1.25	IF	4	Sound Takeoff	4.5	5/16 hole	1-1/2	7/16 DIA
17-3400	1.25	IF	5	Sound Takeoff	4.5	5/16	1-3/8	1/2 DIA
17-3401	1.25	IF	5	Sound Takeoff	4.5	7/16 hole	1-3/8	1/2 DIA
16-3445	1.25	ST	44	Interstage Sound	4.5	7/8	2	7/8 X 7/8
17-3412	1.25	IF	4	Interstage Sound	4.5	5/16 hole	1-1/4	1/2 DIA
17-1021	2.75	ST	44	Input or Interstage Sound	4.5	1-1/8	2-1/8	1-1/8 X 1-1/8
17-1071	2.75	ST	42	Interstage Sound	4.5	15/16	1-1/2	7/8 X 7/8
17-1023	3.00	ST	49	Discriminator	4.5	1-1/8	3	1-1/8 X 1-1/8
17-1033	3.30	ST	48	Ratio Detector	4.5	1-1/8	2-1/2	1-1/8 X 1-1/8
17-1043	3.30	ST	55	Ratio Detector	21.25	1-1/8	1-3/4	1-1/8 X 1-1/8
17-3493	3.30	ST	48	Ratio Detector	4.5	1-3/8	2-1/2	1-3/8 X 1-3/8
17-3497	3.30	UM	48	Ratio Detector	4.5	3/4 X 1-1/2	2-1/2	3/4 X 3/4
17-4522	1.25	IF	12	2nd Video Amplifier	Tune 43	5/16 hole	1-3/8	1/2 DIA
17-4523	1.25	IF	20	3rd Video Amplifier Shunt 56K ohms	Tune 45.5	5/16 hole	1-1/4	1/2 DIA
17-4524	1.25	IF	20	4th Video Amplifier Shunt 56K ohms	Tune 44.5	5/16 hole	1-1/4	1/2 DIA
17-4500	2.50	IG	17	Converter	Tune 43.1 Trap 41.6	5/16 hole	2-1/2	5/8 DIA
17-4501	2.50	IG	17	1st Video Amplifier	Tune 42.5 Trap 40	5/16 hole	2-9/16	5/8 DIA
17-4502	2.50	IG	17	2nd Video Amplifier	Tune 45.75 Trap 47.25	5/16 hole	2-9/16	5/8 DIA
17-4503	3.00	ST	36	3rd Video Amplifier	Tune 43.3 Trap 40	15/16	2-1/4	15/16 X 15/16
17-4531	3.00	ST	39	1st Video Amplifier	Tune 44.0 Trap 39.25	15/16	2-1/4	7/8 X 7/8
17-4504	3.00	ST	36	4th Video Amplifier	Tune 44.2 Trap 47.5	15/16	2-1/4	15/16 X 15/16
17-4521	1.25	ST	38	1st Video Amplifier Shunt 27K ohms	Tune 45.75	15/16	2-1/4	7/8 X 7/8

PERMEABILITY TUNED SOUND AND CATHODE TRAPS

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq. MC	Shunt	MTG	Dimensions	
								H	D
20-1045	2.00	IF	82	Cathode Trap	41.8	22K 36UUF	5/16 hole	1-1/4	1/2
20-1004	1.25	IF	5	Sound Trap	4.5	4UUF	5/16 hole	1-5/8	1/2
20-1005	2.00	IF	5	Sound Trap	4.5	10UUF	5/16 hole	1-5/8	1/2
20-1021	2.00	IF	21	Cathode Trap	21.25	47UUF	7/16 hole	1-1/2	1/2
20-1006	2.00	IF	5	Trap	27.25	15UUF	5/16 hole	1-3/4	1/2

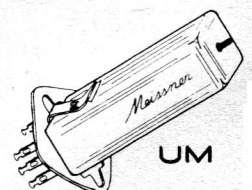
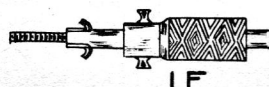
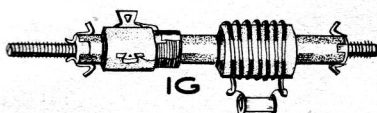
TUNEABLE CHOKES

Type No.	List Price	Fig.	Schematic Pages 22-23	Frequency MC	MTG	Dimensions	
						H	W X D
19-1021	\$1.00	IF	3	21-25 with UUF	7/16 hole	1-3/8	1/2 DIA
19-1020	1.00	IF	3	21-25 with UUF	5/16 hole	1-3/8	1/2 DIA

ADJUSTABLE VIDEO PEAKING COILS

These Miniature Variable Inductance Coils permit exact frequency adjustment in Video Amplifier Stages.

Type No.	List Price	Fig.	Schematic Pages 22-23	Min. Inductance UH	Max. Inductance UH	MTG	Dimensions	
							H	D
19-1920	\$1.20	MF	3	65	115	LEADS	1	1/2
19-1921	1.20	MF	3	115	195	LEADS	1	1/2
19-1922	1.20	MF	3	195	325	LEADS	1	1/2
19-1923	1.20	MF	3	325	500	LEADS	1	1/2





Meissner



VIDEO PEAKING COILS

Provided with tinned wire leads for ease of connection.

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance UH	Shunt Resistance	Dimensions Form Length
19-3001	.60	RT	1	.8	NONE	3/4
19-3036	.60	RT	1	36	NONE	3/4
19-4036	.60	RT	6	36	10 MEG	1/2
19-4060	.60	RT	6	60	22K	1/2
19-4073	.60	ST	6	73	10 MEG	1/2
19-3075	.60	RT	1	75	NONE	3/4
19-3093	.60	RT	1	93	NONE	3/4
19-4093	.60	RT	6	93	10 MEG	1/2
19-3100	.60	RT	1	100	NONE	1/2
19-4121	.60	RT	6	120	8.2 K	5/8
19-4120	.60	RT	6	120	12 K	5/8
19-4122	.60	RT	6	120	22 K	1/2
19-3125	.60	RT	1	125	NONE	3/4
19-4125	.60	RT	6	125	22 K	1/2
19-4160	.60	RT	6	160	22 K	1/2
19-3160	.60	RT	1	160	NONE	3/4
19-3180	.60	RT	1	180	NONE	3/4
19-4180	.60	RT	6	180	39 K	1/2
19-4200	.60	RT	6	200	10 K	5/8
19-3250	.60	RT	1	250	NONE	3/4
19-4250	.60	RT	6	250	22 K	1/2
19-4251	.60	RT	6	250	10 MEG	1/2
19-3300	.60	RT	1	300	NONE	3/4
19-4412	.60	RT	6	412	8.2 K	5/8
19-3500	.60	RT	1	500	NONE	3/4
19-4500	.60	RT	6	500	10 MEG	1/2
19-3660	.60	RT	1	660	NONE	3/4
19-4840	.60	RT	6	840	3.3 K	5/8
19-5100	.60	RT	6	1000	10 K	5/8

HIGH VOLTAGE OSCILLATOR COILS

Designed for TV receivers using separate high voltage power supplies and applicable to the construction of inexpensive H. V. DC sources.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	DIA
19-3204	\$8.50	OC	26	10 KV at 50 UA with recommended circuit. 8 KV at 400 UA.	1-1/4	4-3/16	2
19-3210	13.50	OC	27	30 KV at 50 UA with recommended Circuit.	1-1/2	5-1/2	2-3/8

HORIZONTAL SYNC TRANSFORMERS AND COILS

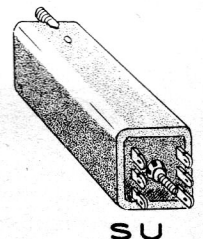
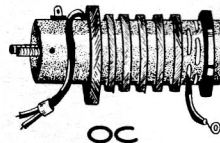
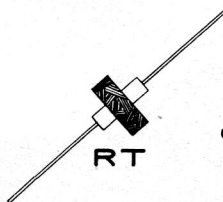
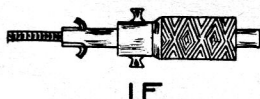
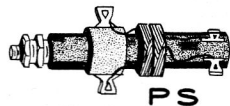
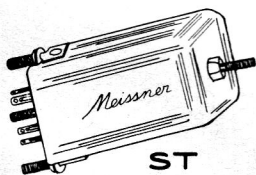
For horizontal sweep oscillator and automatic frequency control circuits.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	W X D
20-1400	\$2.80	SU	58	Horizontal OSC and AFC discriminator (Sync Lock)	1-3/8	2-1/4	1-1/2 X 1-1/2
20-1401	2.25	SU	30	Horizontal OSC and Sync control (Sync Guide)	1-3/8	2	1-1/2 X 1-1/2
20-1402	2.75	SU	43	Horizontal OSC and Sync stabilizer (Sync freq. & phase)	1-3/8	2-5/8	1-1/2 X 1-1/2
19-1575	2.25	PS	3	14-28 MH horiz. OSC ringing coil	1/4 hole	2	1 DIA
19-1576	2.25	IF	3	10-50 MH horiz. OSC ringing coil	7/16 hole	2-5/16	3/4 DIA
19-1577	2.25	IF	4	98-160 MH horiz. OSC coil	7/16 hole	2-5/16	3/4 DIA

LINEARITY AND WIDTH CONTROLS

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance Range MH	DC Res. Ohms	MTG	Dimensions	
							H	DIA
20-1024	\$1.40	IF	3	0.05-0.3	.194	5/16 hole	2	9/16
20-1025	1.40	IF	3	0.05-0.3	.51	5/16 hole	1-1/2	7/16
20-1026	1.40	IF	3	5.5-20	34.5	5/16 hole	2	9/16
20-1027	1.40	IF	3	0.8-3.7	17	7/16 hole	2-1/2	1/2
20-1028	1.75	IF	13	4.2-30 has AGC winding	22	7/16 hole	2-5/8	13/16
20-1029	1.40	IF	3	2.5-17	18	7/16 hole	2-5/16	3/4
20-1031	1.10	IF	3	0.17-0.61	1.	5/16 hole	2-7/8	3/8
20-1032	1.40	IF	4	0.55-2.3	8.3	5/16 hole	2	7/16
20-1033	1.40	IF	4	4.3	7	7/16 hole	2	9/16
20-1034	1.40	IF	3	10-50	40	7/16 hole	2-5/16	3/4
20-1035*	1.75	IF	13	2.6-7.5 4.0-28	1.2 32	7/16 hole	2-1/4	3/4

*AGC Winding





Meissner



BROADCAST

PORTABLE, HOME, AND AUTO RADIOS

I. F. TRANSFORMERS AIR CORE "PLASTIC"

Designed for superior performance especially when space is at a premium. Simple rigid construction on a one-piece molded plastic form; double tuned trimmer base. Leads extend four inches from can and are RTMA color coded.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq Range	Peak Factory Setting	Selectivity		MTG	Dimensions	
							2X	10X		H	WxD
16-6649	\$2.00	MT	45	INPUT	140-200 KC	175 KC	6.0	17.5	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6650	2.00	MT	54	INTERSTAGE	140-200 KC	175 KC	5.7	15.0	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6651	2.00	MT	45	OUTPUT	140-200 KC	175 KC	11.5	29.5	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6652	1.75	MT	45	INPUT	200-310 KC	262 KC	9.5	24.7	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6653	1.75	MT	45	INTERSTAGE	200-310 KC	262 KC	10.4	27.6	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6654	1.75	MT	45	OUTPUT	200-310 KC	262 KC	20.5	57.1	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6655	1.50	MT	45	INPUT	305-480 KC	370 KC	8.4	24.4	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6656	1.50	MT	45	INTERSTAGE	305-480 KC	370 KC	11.3	30.0	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6657	1.50	MT	45	OUTPUT	305-480 KC	370 KC	18.8	46.6	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6658	1.75	MT	45	INPUT	400-550 KC	456 KC	18.8	46.6	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6659	1.75	MT	45	INTERSTAGE	400-550 KC	456 KC	12.5	33.0	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6660	1.75	MT	45	OUTPUT	400-550 KC	456 KC	17.5	50.5	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6666	2.20	MT	45	INPUT	400-600 KC	456 KC	14.1	37.5	1-1/8	2-1/2	1-1/8 X 1-1/8
16-6667	2.20	MT	45	OUTPUT	400-600 KC	456 KC	18.0	49.5	1-1/8	2-1/2	1-1/8 X 1-1/8

HI Q IRON CORE "PLASTIC"

Same as series above, except coils have HI Q powered iron cores.

16-6662	2.50	MT	45	INPUT	380-600 KC	456 KC	11.2	30.0	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6663	2.50	MT	45	OUTPUT	380-600 KC	456 KC	11.2	30.0	1-1/4	2-1/2	1-1/4 X 1-1/4

"STANDARD" GENERAL REPLACEMENT

Accepted as standard for general replacement purposes. Gain characteristics have been designed to correspond closely with average values found in the majority of commercial receivers. Double tuned with ceramic base, mica-dielectric trimmers. Leads extend 4" from aluminum cans and are RTMA color coded.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq Range	Peak Factory Setting	Selectivity		MTG	Dimensions	
							2X	10X		H	WxD
16-5700	\$2.50	MT	45	INPUT	121-234 KC	175 KC	6.5	17.7	1-3/8	3	1-3/8 X 1-3/8
16-5702	2.50	MT	45	OUTPUT	121-235 KC	175 KC	12.2	32.0	1-3/8	3	1-3/8 X 1-3/8
16-3731	2.50	MT	52	OUTPUT CT	121-235 KC	175 KC	9.8	23.2	1-3/8	3	1-3/8 X 1-3/8
16-5704	2.50	MT	45	INPUT	220-360 KC	262 KC	6.8	18.4	1-3/8	3	1-3/8 X 1-3/8
16-5706	2.50	MT	45	OUTPUT	190-325 KC	262 KC	17.9	46.2	1-3/8	3	1-3/8 X 1-3/8
16-5712	2.50	MT	45	INPUT	425-650 KC	456 KC	11.1	27.7	1-3/8	3	1-3/8 X 1-3/8
16-6133	2.50	MT	52	INTERSTAGE	435-1000 KC	456 KC	14.5	36.5	1-3/8	3	1-3/8 X 1-3/8
16-5714	2.50	MT	45	OUTPUT	426-650 KC	456 KC	12.3	37.2	1-3/8	3	1-3/8 X 1-3/8
16-3736	2.50	MT	52	OUTPUT CT	255-550 KC	456 KC	23.2	60.0	1-3/8	3	1-3/8 X 1-3/8

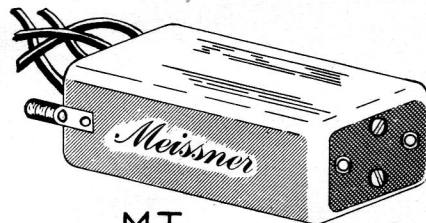
HI Q IRON CORE "STANDARD" GENERAL REPLACEMENT

Same as series above, except coils have HI Q powdered iron cores. Shielded.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq Range	Peak Factory Setting	Selectivity		MTG	Dimensions	
							2X	10X		H	WxD
16-5728	\$3.30	MT	45	INPUT	127-206 KC	175 KC	12.5	30.0	1-3/8	3-1/2	1-3/8 X 1-3/8
16-5730	3.30	MT	45	OUTPUT	127-206 KC	175 KC	16.5	44.0	1-3/8	3-1/2	1-3/8 X 1-3/8
16-6668	2.40	MT	45	(BATTERY INPUT)	350-550 KC	456 KC	22.5	54.3	3/4	2	3/4 X 3/4
16-6669	2.40	MT	45	(BATTERY OUTPUT)	350-550 KC	456 KC	22.5	58.0	3/4	2	3/4 X 3/4
16-6678	2.40	MT	45	ACDC INPUT or OUTPUT	375-550 KC	456 KC	16.6	41.1	3/4	2	3/4 X 3/4
16-5740	3.00	MT	45	INPUT	360-600 KC	456 KC	8.4	20.0	1-3/8	3-1/2	1-3/8 X 1-3/8
16-5742	3.00	MT	45	OUTPUT	360-600 KC	456 KC	13.8	38.0	1-3/8	3-1/2	1-3/8 X 1-3/8
16-5782	3.00	MT	45	INPUT	340-550 KC	456 KC			1-3/8	3-1/2	1-3/8 X 1-3/8
16-5784	3.00	MT	45	OUTPUT	340-550 KC	456 KC			1-3/8	3-1/2	1-3/8 X 1-3/8
16-8091	3.00	MT	45	INPUT or INTER-STAGE	1250-200 KC	1500 KC	8.5	35	1-3/8	3-1/2	1-3/8 X 1-3/8
16-8099	3.00	MT	45	OUTPUT	1250-200 KC	1500 KC	10	50	1-3/8	3-1/2	1-3/8 X 1-3/8

Coils and components shown in this catalog, and transformers, chokes, etc. shown in the new companion THORDARSON catalog, are also listed in SAM's "Photofacts" and "Counterfacts."

Brand new THORDARSON-MEISSNER COMBINED T. V. REPLACEMENT GUIDE available free on request, shows correct replacement on about 6000 different T. V. sets. Covers: Horizontal syncs. . . deflection yokes. . . vertical outputs. . . ratio detector & discriminator coils. . . chokes. . . I. F. 's. . . peaking coils. . . flybacks. . . powers. . . width controls. . . horizontal blocking oscillators. . . focus coils. . . vertical blocking oscillators. . . traps. . . audio outputs.



MT



Meissner



3/4" I. F.'S PERMEABILITY TUNED

Tuned top and bottom by means of adjustable iron cores. Buss bar construction using silvered mica condensers and one piece molded plastic bases. Supplied with separate mounting plate which permits use in older receivers having various mounting centers.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq Range	Peak Factory Setting	Selectivity		MTG	Dimensions	
							2X	10X		H	WxD
16-6752	\$2.40	UM	44	INPUT	245-275 KC	262 KC	12	35	3/4-1-1/2	2	3/4 X 3/4
16-6754*	2.50	UM	46	OUTPUT	245-275	262 KC	18	45	3/4-1-1/2	2	3/4 X 3/4
16-6758	2.20	UM	44	INPUT or OUTPUT	400-500	456 KC	28	60	3/4-1-1/2	2	3/4 X 3/4
16-6770*	2.30	UM	46	OUTPUT	400-550	456 KC	30	65	3/4-1-1/2	2	3/4 X 3/4

* Have Diode Filter Condenser

"CARTWHEEL" I.F.

Complete with dual trimmers on one-piece molded plastic base. Applicable in many types of compact AC-DC or midget receivers. Leads extend 4" from coil.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq Range	Peak Factory Setting	Selectivity		MTG	Dimensions	
							2X	10X		H	WxD
16-6661	\$1.80	CW	22	INPUT, INTER-STAGE or OUTPUT	380-600	456 KC	18	45	SINGLE SCREW	1-1/4	1-3/8 X 1

"ALIGNAIRE"

Unexcelled in stability, unaffected by humidity changes; non-microphonic and dust-proof. HI-Q powdered iron cores provide utmost selectivity and sensitivity. All types are double-tuned.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Freq Range	Peak Factory Setting	Selectivity			MTG	Dimensions	
							2X	10X	20X		H	WxD
16-6643	\$12.00	WT	45	INPUT	415-540	456 KC	7.0	16.0	22.0	2	4-3/4	2 X 2
16-6123	12.00	WT	45	INTERSTAGE	415-540	456 KC	7.0	18.0	24.4	2	4-3/4	2 X 2
16-6645	12.00	WT	45	OUTPUT	415-540	456 KC	9.0	25.6	36.2	2	4-3/4	2 X 2
16-6139	12.00	WT	56	OUTPUT CT	415-540	456 KC	9.0	23.2	33.5	2	4-3/4	2 X 2

TWEET FILTER OUTPUT I. F. TRANSFORMERS

Built-in tweet filter. Designed for replacement use in late model receivers that have a tweet filter enclosed in the I. F. output shield. Leads extend four inches from can and are RTMA color coded.

Type No.	List Price	Fig.	Schematic Pages 22-23	Freq	Selectivity		MTG	Dimensions	
					2X	10X		H	WxD
16-6679	\$2.60	MT	47	262 KC	12	34	1-1/4	2-1/2	1-1/4 X 1-1/4
16-6670	2.70	MT	47	456 KC	17.5	50.5	1-1/4	2-1/2	1-1/4 X 1-1/4

456 KC BAND EXPANDING I. F. TRANSFORMERS

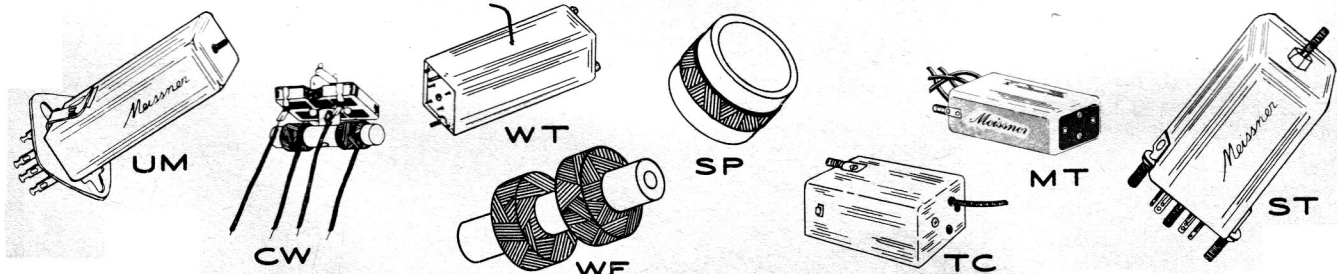
Designed to provide variable selectivity by means of a tap switch-- no cams or levers. Extremely sharp resonance curve provided in First position. Other positions provide good flat-top characteristics for high fidelity reproduction of local stations. Powdered iron cores, highest quality components used throughout.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	WxD
17-7400	\$3.60	TC	71	INPUT	1-3/8	3-1/2	1-3/8 X 1-3/8
17-7412	3.60	TC	71	OUTPUT	1-3/8	3-1/2	1-3/8 X 1-3/8
17-7510	3.60	ST	76	INPUT & INTERSTAGE	1-3/8	2-3/4	1-3/8 X 1-3/8
17-7514	3.60	ST	44	OUTPUT	1-3/8	2-3/4	1-3/8 X 1-3/8

REPLACEMENT IF WINDINGS & "SLIP OVER" PRIMARIES

Coupling is adjustable by sliding primary. Complete instructions are furnished.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	DIA
16-6600	\$1.03	WF	7	157 KC REPLACEMENT IF WINDING	1-1/4	1-3/4	3/4
16-6601	1.03	WF	7	456 KC REPLACEMENT IF WINDING		1-3/4	3/4
16-6602	1.33	WF	8	175 KC REPLACEMENT IF WINDING		1-3/4	3/4
16-6603	1.33	WF	8	456 KC REPLACEMENT IF WINDING		1-3/4	3/4
14-6850	.48	SP	1	"SLIPOVER" RF PRIMARY	1	3/4	1-7/16
14-6852	.42	SP	1	"SLIPOVER" RF PRIMARY	1	3/4	1-3/16
14-6854	.42	SP	1	"SLIPOVER" RF PRIMARY	7/8	3/4	1
14-6856	.42	SP	1	"SLIPOVER" RF PRIMARY	3/4	3/4	15/16
14-8418	.37	SP	1	"SLIPOVER" RF PRIMARY	1/2	1/4	15/16
14-6865	.48	SP	1	DOWEL MTG RF PRIMARY	1/2	1/2	1/2





Meissner



ANTENNA, R. F. AND OSCILLATOR COILS

"ADJUSTABLE" INDUCTANCE COILS

Designed for replacement in practically any receiver, eliminating necessity for "exact" replacement. Will accurately track with other coils in the receiver. Exact inductance of the old coil is easily matched by simple screwdriver adjustment. 14-1028 and 14-7560 may be used in either cut-plate or padder circuits for I. F. frequencies between 175 and 520 KC.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	Use	MTG	Dimensions	
						H	WxD
14-1026	\$2.20	PC	16	ANTENNA COIL	3/16 hole	1-3/4	1-1/8 X 1-1/8
14-1027	2.20	PC	16	R. F. COIL	3/16 hole	1-3/4	1-1/8 X 1-1/8
14-1028	2.20	PC	13	OSCILLATOR COIL	3/16 hole	1-3/4	1-1/8 X 1-1/8
14-1076	2.20	IF	83	R. F. COIL	5/16 hole	1-5/8	5/8 DIA
14-1077	3.00	IF	12	OSCILLATOR COIL	5/16 hole	1-1/4	5/8 DIA
14-1056	2.20	PT	16	ANTENNA COIL	1/4 hole	1-7/8	3/4" DIA
14-1057	2.20	PT	16	R. F. COIL	1/4 hole	1-7/8	3/4" DIA
14-1058	2.20	PT	13	OSCILLATOR COIL	1/4 hole	1-7/8	3/4" DIA
14-7413	3.00	AE	35	ANTENNA COIL	1-3/4	2-1/2	1-3/4 X 1-3/4
14-7558	3.00	AE	35	R. F. COIL	1-3/4	2-1/2	1-3/4 X 1-3/4
14-7000	1.00	IF	3	LOOP ANT. REPLACEMENT	5/16 hole	2-1/8	1/2 DIA
14-7560	3.00	AE	34	OSCILLATOR COIL	1-3/4	2-1/2	1-3/4 X 1-3/4

"STANDARD" GENERAL REPLACEMENT COILS

Designed for replacement as well as original parts by discriminating set builders. Cover broadcast band from 545 to 1620 KC with 365 UUF tuning condenser. All coils have high impedance primaries and litz wire secondaries.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	I. F. Freq	Padder Required	MTG	Dimensions	
								H	WxD
14-1010	\$1.25	NT	11	ANTENNA COIL			SINGLE BRACKET	2-1/2	1-1/4 DIA
14-1011	1.25	NT	11	R. F. COIL			SINGLE BRACKET	2-1/2	1-1/4 DIA
14-1022	1.10	NT	11	ANTENNA COIL			SINGLE BRACKET	2-1/8	7/8 DIA
14-1023	1.25	NT	11	R. F. COIL			SINGLE BRACKET	2-1/8	1-1/8 DIA
14-1004	1.75	AE	33	ANTENNA COIL			1-3/4	2-1/2	1-3/4 X 1-3/4
14-1005	1.75	AE	33	R. F. COIL			1-3/4	2-1/2	1-3/4 X 1-3/4
14-2436	1.50	AE	57	ANTENNA COIL			1-3/8	2	1-3/8 X 1-3/8
14-2437	1.50	AE	57	R. F. COIL			1-3/8	2	1-3/8 X 1-3/8
14-3732	1.25	PC	7	OSCILLATOR COIL	175 KC	900 UUF	3/16 hole	1-1/8	1 X 1
14-6590	1.25	PC	7	OSCILLATOR COIL	262	700 UUF	3/16 hole	1-1/8	1 X 1
14-6592	1.25	PC	7	OSCILLATOR COIL	370	500 UUF	3/16 hole	1-1/8	1 X 1
14-4034	1.25	PC	7	OSCILLATOR COIL	456	350 UUF	3/16 hole	1-1/8	1 X 1
14-4242	1.50	AE	32	OSCILLATOR COIL	175	900 UUF	1-1/2	1-3/4	1-1/2 X 1-1/2
14-4243	1.50	AE	32	OSCILLATOR COIL	456	350 UUF	1-1/2	1-3/4	1-1/2 X 1-1/2

"PENTAGRID" OSCILLATOR COILS

Tapped type for 6SA7, 12SA7 and other pentagrid converter tubes. 456 KC.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	Use	MTG	Dimensions	
						H	WxD
14-1033	\$1.10	PT	2	STANDARD PADDER REQUIRED 420UUF	1/4 hole	1	3/4" DIA
14-1053	1.10	PT	2	CUT SECTION PADDER 162UUF	1/4 hole	1	3/4" DIA

"UNIVERSAL" ADJUSTABLE INDUCTANCE OSCILLATOR COILS

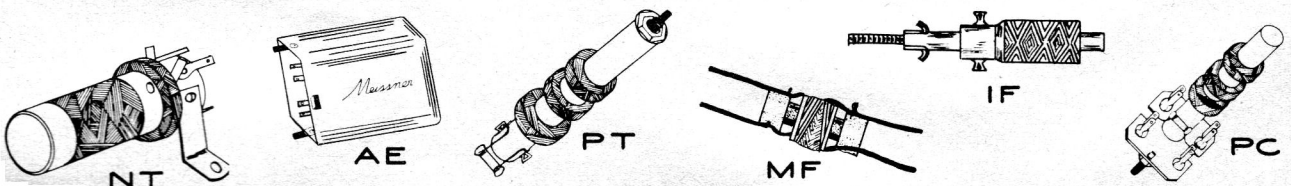
For 456 KC I. F. strips, can be used with over 25 different tube types. Simple screwdriver adjustment. Instructions are included for proper use.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	MTG	Dimensions	
					H	WxD
14-1040	\$2.50	PT	15	1/4 hole	1-7/8	5/8" DIA
14-1060	2.50	PT	15	1/4 hole	1-3/4	3/4" DIA

"MINIATURE" COILS

These tiny coils have been designed for universal replacement in midget receivers where space is of paramount importance. All coils have adjustable iron cores to permit tracking with all commonly used tuning condensers.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	Use	MTG	Dimensions	
						H	WxD
14-1071	\$1.75	MF	7	ANTENNA COIL	LEADS	1-1/2	3/8
14-1072	1.75	MF	7	R. F. COIL	LEADS	1-1/2	1/2
14-1073	1.75	MF	9	OSCILLATOR COIL (PENTAGRID CONVERTER)	LEADS	1	3/8
14-1074	1.75	MF	7	OSCILLATOR COIL (BATTERY TYPE)	LEADS	1	3/8





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FILTERS

Eliminates T. V. interference caused by many types of electric and electronic equipment including vacuum sweepers, electric razors, oil burners, neon lights, etc. Insertion loss is almost zero.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	WxD
15-1072	\$5.50	SL	75	HI PASS 72 OHM TV ANTENNA "COUPLER." ATTENUATES UP TO 50 MC.	3-7/16	1-3/4	2 X 3
15-1003	5.50	SL	74	HI PASS 300 OHM TV ANTENNA "COUPLER." ATTENUATES UP TO 50 MC.	3-7/16	1-3/4	2 X 3
15-7515	7.60	LF	68	LO PASS 110 V 3 AMP LINE FILTER	4-1/4	2	3-1/8 X 4-1/2
15-7520	6.00	MT	67	BAND STOP 10 KC, 75 MA. FOR PLATE AUDIO OUTPUTS WITH "SQUEALS AND WHISTLES."	1-3/4	2-3/4	1-3/4 X 1-3/4

ADJUSTABLE WAVE TRAPS

FOR TV, FM, SHORTWAVE, BROADCAST AND AMATEUR RECEIVERS

I. F. and Broadcast Band Frequencies

Designed to eliminate interference caused by strong broadcast stations, image frequencies, and long-wave transmitters. Fully shielded and moisture protected. Instructions furnished for use either as rejector or by-pass. Mounting brackets are attached to the shield.

Type No.	List Price	Fig.	Schematic Pages 22-23	Attenuation Range	MTG	Dimensions	
						H	WxD
15-8479	\$2.00	MT	59	400-700 KC	1-1/2	2	1-1/2 X 1-1/2
15-8480	2.00	MT	59	650-1000 KC	1-1/2	2	1-1/2 X 1-1/2
15-8481	2.00	MT	59	950-1600 KC	1-1/2	2	1-1/2 X 1-1/2
15-2866	1.50	PB	5	456 KC	1/8 hole	1-1/2	7/8 X 1-1/4

TV, F. M. AND SHORTWAVE WAVE TRAPS

Attenuate interfering signals with these new, highly efficient tunable wave traps. Several may be connected in series if interference exists on more than one frequency. Efficient with any balanced or unbalanced line from 50 to 500 ohms impedance.

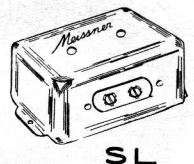
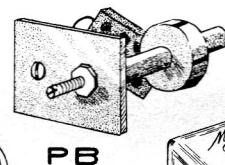
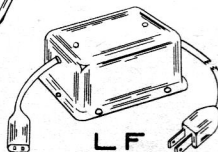
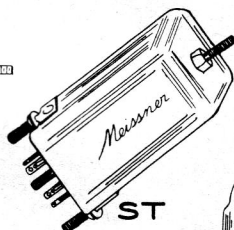
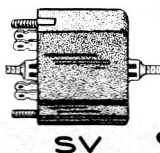
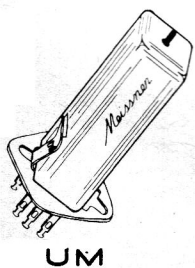
Type No.	List Price	Fig.	Schematic Pages 22-23	Attenuation Range	MTG.	Dimensions	
						H	WxD
15-7510 *	\$6.00	SL	72	6 to 13 MC	3-7/16	1-3/4	2 X 3
15-7511 *	6.00	SL	72	13 to 27 MC	3-7/16	1-3/4	2 X 3
15-7512 *	6.00	SL	72	27 to 54 MC	3-7/16	1-3/4	2 X 3
15-7513 *	6.00	SL	72	54 to 108 MC	3-7/16	1-3/4	2 X 3
15-7514 *	6.00	SL	73	108 to 216 MC	3-7/16	1-3/4	2 X 3

* We make the following recommendations for elimination of undesirable television reception interference:
 For interference arising from T. V. channels 2 to 6 inclusive install. 15-7513
 For interference arising from T. V. channels 7 to 13, inclusive, install. 15-7514
 For interference arising from 40 meter band, install. 15-7510
 For interference arising from 20 and 15 meter band, install. 15-7511
 For interference arising from 10 and 6 meter band, install. 15-7512
 For interference arising from taxis, Hi-Freq. police, install. 15-7514
 For interference arising from FM stations, install. 15-7513

10.7 MC I.F. TRANSFORMER, DISCRIMINATOR, AND RATIO DETECTOR

Permeability tuned. Close tolerance. High stability shunt capacitors. Four 16-6665's with a 17-3484 or 17-3487 makes an excellent F.M. I.F. channel for receivers or converters. For a more economical receiver or converter, use two 16-3487's with one 17-3487 or 17-3488.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	WxD
16-3487	\$2.50	UM	44	INPUT, INTERSTAGE OR OUTPUT	3/4-1-1/2	2	3/4 X 3/4
16-3471	2.50	ST	44	INPUT, INTERSTAGE OR OUTPUT	15/16	2-1/4	7/8 X 7/8
16-3472	2.50	ST	44	INTERSTAGE	15/16	2-1/2	7/8 X 7/8
16-6665	3.50	SV	44	INPUT, INTERSTAGE OR OUTPUT (350 KC BAND WIDTH)	1-1/2	1-3/4	7/8 X 7/8
17-3488	3.30	ST	48	RATIO DETECTOR	1-1/8	2-1/8	1-1/8 X 1-1/8
17-3487	3.30	ST	48	RATIO DETECTOR. 400 KC PK TO PK	1-3/8	2-1/2	1-3/8 X 1-3/8
17-3484	3.30	SV	77	DISCRIMINATOR 400 KC PK TO PK	1-1/2	1-3/4	7/8 X 1-1/2





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COMPOSITE I.F. TRANSFORMER

Contains a 456 KC A.M. and a 10.7 F.M. IF. Each circuit tuned by separate powdered iron cores. Terminals provide for various external circuit arrangements. Two of these units with the 17-3487 make an A.M. - F.M. I.F. unit with a minimum number of tubes as shown in the "How To Build" manual.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	WxD
16-6675	\$5.00	DT	50	INPUT, INTERSTAGE, OR OUTPUT	1-5/16	2-1/2	1-3/8 X 1-3/8

"AIR CORE" R.F. CHOKES

Thoroughly moisture proofed; Single hole mounting. Shielded chokes have terminals through the top of the can so unit may be mounted on inside wall of chassis.

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance MH	DC Res. OHMS	Current Capac. MA	MTG	Dimensions	
								H	D
19-1994	\$.90	BC	1	2.5	40	20	6-32 HOLE	7/8	1-1/8
19-4551	.90	BC	1	5.5	57.5	20	6-32 HOLE	7/8	1-1/8
19-2078	.90	BC	1	8	75	20	6-32 HOLE	7/8	1-1/8
19-8770	.90	BC	1	10	82.5	20	6-32 HOLE	7/8	1-1/8
19-1995	1.00	BC	1	16	108	20	6-32 HOLE	7/8	1-1/8
19-2330	1.30	BC	1	30	159	20	6-32 HOLE	7/8	1-1/8
19-3247	1.40	BC	1	60	258	20	6-32 HOLE	7/8	1-1/8
19-2709	1.40	BC	1	80	372	16	6-32 HOLE	7/8	1-1/8
19-7908	1.30	SF	28	82.5 UH	2.05	50	6-32 HOLE	7/8	1-1/8
19-5582	1.30	SF	28	2.5	37	20	6-32 HOLE	7/8	1-1/8
19-5584	1.30	SF	28	5.5	62	20	6-32 HOLE	7/8	1-1/8
19-5588	1.30	SF	28	8	77	30	6-32 HOLE	7/8	1-1/8
19-1900	1.50	SF	28	10	82	20	6-32 HOLE	7/8	1-1/8
19-5590	1.50	SF	28	16	109	20	6-32 HOLE	7/8	1-1/8
19-5592	1.50	SF	28	30	165	20	6-32 HOLE	7/8	1-1/8
19-5594	2.00	SF	28	60	318	16	6-32 HOLE	7/8	1-1/8
19-5596	2.00	SF	28	80	342	16	6-32 HOLE	7/8	1-1/8

"IRON CORE" R.F. CHOKES

High permeability powdered iron cores, wax impregnated coils, universal wound. Shielded chokes have terminals through top of can so unit may be mounted on inside wall of chassis.

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance MH	DC Res OHMS	Current Capac MA	MTG	Dimensions	
								H	D
19-6834	\$1.14	BC	1	2.5	22.5	20	6-32 HOLE	1	1-1/8
19-6840	1.45	BC	1	10	51.4	20	6-32 HOLE	1	1-1/8
19-6842	1.69	BC	1	30	114	20	6-32 HOLE	1	1-1/8
19-6844	1.93	BC	1	60	247.5	12.5	6-32 HOLE	1	1-1/8
19-6846	2.17	BC	1	80	258	15	6-32 HOLE	1	1-1/8
19-6848	2.78	BC	1	125	330	15	6-32 HOLE	1	1-1/8
19-6854	1.50	SF	28	2.5	22.5	20	6-32 HOLE	1	1-1/8
19-6860	1.81	SF	28	10	51.4	20	6-32 HOLE	1	1-1/8
19-6862	2.05	SF	28	30	114	20	6-32 HOLE	1	1-1/8
19-6864	2.29	SF	28	60	247.5	12.5	6-32 HOLE	1	1-1/8
19-6866	2.43	SF	28	80	258	75	6-32 HOLE	1	1-1/8
19-6868	3.14	SF	28	125	330	75	6-32 HOLE	1	1-1/8

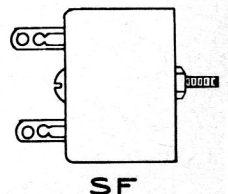
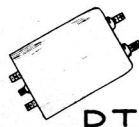
R.F. CHOKES--UNIVERSAL PROGRESSIVE WOUND

(LOW DISTRIBUTED CAPACITY)

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance UH	DC Res OHMS	Current Capac MA	MTG	Dimensions	
								H	D
19-6022	\$.75	CK	1	22	1.17	300	LEADS	7/8	3/8
19-6033	.75	CK	1	33	1.43	300	LEADS	7/8	3/8
19-7047	.75	CK	1	47	0.82	300	LEADS	7/8	3/8
19-7068	.75	CK	1	68	1.10	300	LEADS	7/8	3/8
19-7100	.75	CK	1	100	1.33	300	LEADS	7/8	3/8

R.F. CHOKES--SINGLE LAYER WOUND

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance UH	DC Res OHMS	Current Capac MA	MTG	Dimensions	
								H	D
19-1000	\$.60	SW	1	1	.207	300	LEADS	3/4	5/16
19-1001	.60	SW	1	1.5	.252	300	LEADS	3/4	5/16
19-1002	.60	SW	1	2.4	.331	300	LEADS	3/4	5/16
19-1003	.60	SW	1	3.9	0.4	300	LEADS	3/4	5/16
19-1004	.60	SW	1	6.2	.525	300	LEADS	3/4	5/16
19-1005	.60	SW	1	10	.697	300	LEADS	3/4	5/16





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ADJUSTABLE "UNIVERSAL" R.F. CHOKES

For set builders, experimenters and hobbyists who require inductance slightly different than standard values. This series of coils has been designed to permit variations by simple screwdriver adjustment, making possible exact tuning of the circuit. All coils are shielded

Type No.	List Price	Fig. Pages 22 - 23	Schematic	Inductance Range MH	Current Capac MA	MTG	Dimensions	
							H	WxD
19-6872	\$2.50	ST	29	2.5-10	110	1-3/8	2-1/2	1-3/8 X 1-3/8
19-6874	2.75	ST	29	10-30	110	1-3/8	2-1/2	1-3/8 X 1-3/8
19-6876	3.00	ST	29	30-60	100	1-3/8	2-1/2	1-3/8 X 1-3/8

LONGWAVE, BROADCAST AND SHORTWAVE "MULTIPLE BAND" COILS

Carefully engineered, produced for custom set builders, experimenters, and hobbyists, to be used with 456 KC I. F. channel. All coils provided with complete instructions and diagram.

Type No.	List Price	Fig. Schematic Pages 22 - 23	Use	Frequency Range	MTG	Dimensions	
						H	WxD
14-7476	\$5.00	AE 60	ANTENNA COIL	530-1660 KC & 5.8-19 MC	1-3/4	3	1-3/4 X 1-3/4
14-7478	5.00	AE 60	R. F. COIL	530-1660 KC & 5.8-19 MC	1-3/4	3	1-3/4 X 1-3/4
14-7480	5.00	AE 60	OSCILLATOR COIL	530-1660 KC & 5.8-19 MC	1-3/4	3	1-3/4 X 1-3/4
14-1070	5.00	AE 60	OSCILLATOR COIL (FOR 12BE6 TUBE)	530-1660 KC & 5.8-19 MC	1-3/4	3	1-3/4 X 1-3/4
14-2860	5.00	NT 60	ANTENNA COIL	530-1660 KC & 5.8-19 MC	SINGLE BRACKET	3-1/4	1 X 1-1/4
14-2862	5.00	NT 25	OSCILLATOR COIL	530-1660 KC & 5.8-19 MC	SINGLE BRACKET	2-1/4	1 X 1-1/2
14-1067	7.00	AE 61	ANTENNA COIL	535 KC - 19 MC	2	4-1/8	2 X 2
14-1068	7.00	AE 62	R. F. COIL	535 KC - 19 MC (3 OVERLAPPING BANDS)	2	4-1/8	2 X 2
14-1069	7.00	AE 63	OSCILLATOR COIL	535 KC - 19 MC (3 OVERLAPPING BANDS)	2	4-1/8	2 X 2
14-1015	7.00	AE 64	ANTENNA COIL	136-370 KC	1-3/4	4-1/8	1-3/4 X 1-3/4
14-1016	7.00	AE 65	R. F. COIL	530-1580 KC	1-3/4	4-1/8	1-3/4 X 1-3/4
14-1017	7.00	AE 66	OSCILLATOR COIL	5.8-18.6 MC	1-3/4	4-1/8	1-3/4 X 1-3/4

SHORTWAVE ADJUSTABLE INDUCTANCE COILS

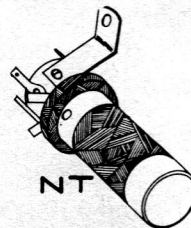
Adjustable by means of a Hi-Q iron core. Tunes with 292 UUF D condenser. Inexpensive, efficient, compact universal replacements.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	Frequency Range	MTG	Dimensions	
							H	WxD
14-1041	\$2.50	PT	16	ANTENNA COIL	1.7-5.3 MC	1/4 HOLE	1-7/8	3/4 DIA
14-1042	2.50	PT	13	R. F. COIL	1.7-5.3 MC	1/4 HOLE	1-7/8	3/4 DIA
14-1043	2.50	PT	4	OSCILLATOR COIL	1.7-5.3 MC	1/4 HOLE	1-7/8	3/4 DIA
14-1061	2.25	PT	16	ANTENNA COIL	1.7-5.3 MC	1/4 HOLE	1-3/4	3/4 DIA
14-1062	2.25	PT	12	R. F. COIL	1.7-5.3 MC	1/4 HOLE	1-3/4	3/4 DIA
14-1063	2.25	PT	4	OSCILLATOR COIL (TAPPED FOR 6SA7 TYPE PENTAGRID CONVERTER)	1.7-5.3 MC	1/4 HOLE	1-3/4	3/4 DIA
14-1044	2.50	PT	16	ANTENNA COIL	5.3-16.5 MC	1/4 HOLE	1-7/8	1/2 DIA
14-1045	2.50	PT	16	R. F. COIL	5.3-16.5 MC	1/4 HOLE	1-7/8	1/2 DIA
14-1046	2.50	PT	4	OSCILLATOR COIL	5.3-16.5 MC	1/4 HOLE	1-7/8	1/2 DIA
14-1064	2.25	PT	16	ANTENNA COIL	5.3-16.5 MC	1/4 HOLE	1-3/4	3/4 DIA
14-1065	2.25	PT	16	R. F. COIL	5.3-16.5 MC	1/4 HOLE	1-3/4	3/4 DIA
14-1066	2.25	PT	4	OSCILLATOR COIL	5.3-16.5 MC	1/4 HOLE	1-3/4	3/4 DIA

AIRCRAFT BAND COILS

Compact aircraft coils to cover the 195-410 KC range with a 365 UUF D condenser. Impregnated windings give stable operation despite severe weather changes. Antenna coil will operate with straight, loop or other antennas. Coils designed for 456 KC I. F. system. Oscillator coil requires a 200 UUF D (nominal) padder. Shielded.

Type No.	List Price	Fig.	Schematic Pages 22-23	Use	MTG	Dimensions	
						H	WxD
14-1030	\$4.65	MT	69	ANTENNA COIL	1-3/8	1-3/4	1-3/8 X 1-3/8
14-1031	4.65	MT	70	R. F. COIL	1-3/8	1-3/4	1-3/8 X 1-3/8
14-1032	4.65	MT	70	OSCILLATOR COIL	1-3/8	1-3/4	1-3/8 X 1-3/8





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COILS FOR AMATEUR, HOBBISTS, & EXPERIMENTERS TRANSMITTER CHOKES

Highly efficient R. F. chokes for amateur and commercial use; six lateral wound sections provide efficient action over a wide frequency range. Low distributed capacity windings are on ceramic dowels with tapped end holes. Mounting brackets included.

Type No.	List Price	Fig.	Schematic Pages 22-23	Inductance MH	Current Capac. MA	Resistance OHMS	MTG	Dimensions	
								H	WxD
19-3018	\$4.00	CC	1	2.5	1000	5	3-3/4	2-1/2	4-1/8 X 1-1/8
19-3019	4.00	CC	1	2.8	1000	5	3-3/4	2-1/2	4-1/8 X 1-3/4
19-3022	4.00	CC	1	5.5	500	12.5	3-3/4	2-1/2	4-1/8 X 2
19-3025	4.00	CC	1	5.9	200	34.9	3-3/4	2-1/2	4-1/8 X 1-1/2

PHONO - OSCILLATOR COIL

For use in building either wireless or direct connected phonograph-oscillator units for record reproduction through the radio receiver. Knob adjustment permits selection of clear frequency in the broadcast band.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	MTG	Dimensions	
					H	WxD
17-9373	\$3.75	MT	78	SEE "HOW TO BUILD" MANUAL FOR CIRCUIT	1-3/8	3-1/2 X 1-3/8

BEAT FREQUENCY OSCILLATOR COILS

For use with standard I.F.'s in superhet receivers. Supplies the beat note necessary for code reception. Materially aids in tuning and locating weak stations. Mica trimmers.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	MTG	Dimensions	
					H	WxD
17-6074	\$2.50	MT	79	FIXED PITCH FOR 290-650 KC I.F. VARIABLE PITCH CONTROL FOR 456 KC I.F.	1-3/8	3 X 1-3/8 X 1-3/8
17-6753	3.00	MT	79		1-3/8	3 X 1-3/8 X 1-3/8

456 KC NARROW BAND DISCRIMINATOR COIL

Designed for use in adaptors for converting regular communication receivers with 456 KC I.F. systems to narrow band F.M. Also for use in construction of complete F.M. receivers for ham use. Use of a limiter stage ahead of the discriminator is recommended. Peak separation of discriminator is approximately 25 KC and useable linear portion of characteristic is about 15 KC.

Type No.	List Price	Fig.	Schematic Pages 22 - 23	MTG	Dimensions	
					H	WxD
17-3486	\$3.80	ST	80	1-3/8	2-1/2	1-3/8 X 1-3/8

R.F. FILAMENT SUPPLY COIL

With this coil, the experimenter and hobbyist can build his own R. F. filament heater for HUM reduction in HI fidelity PRE-AMPS.

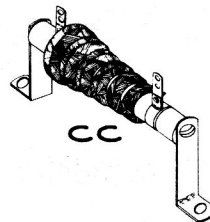
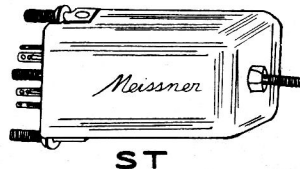
Type No.	List Price	Fig.	Schematic Pages 22 - 23	Use	MTG	Dimensions	
						H	WxD
17-1000	\$8.50	ST	81	100 KC R. F. OSC COIL	1-3/8	3 X 1-3/8 X 1-3/8	

"PLUG-IN" TYPE COILS

For use by hobbyists interested in building regenerative type receivers. Cover range from 17-1500 meters. For use with socket type 9693. Complete instructions furnished.

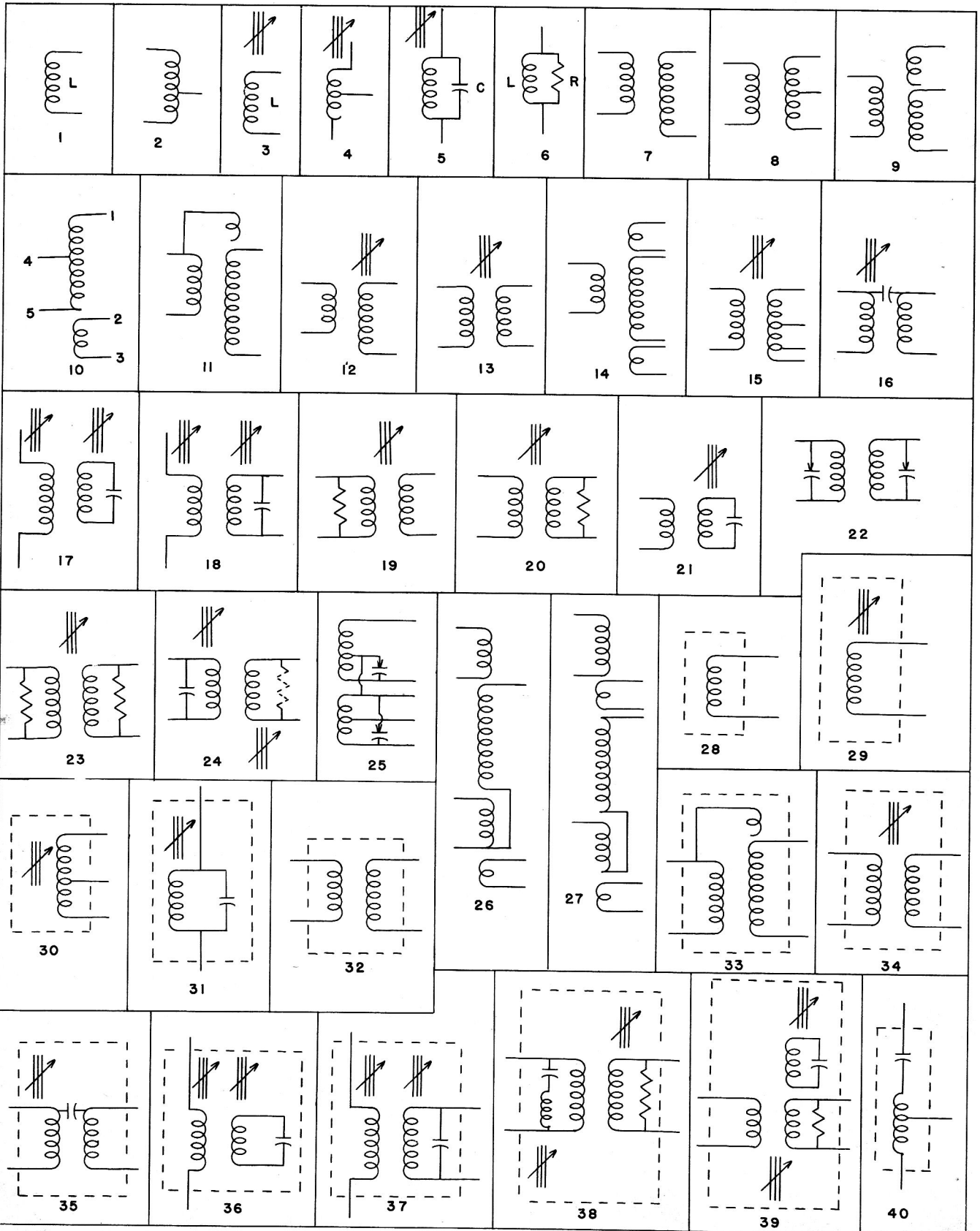
Type No.	List Price	Fig.	Schematic Pages 22 - 23	Frequency Range	MTG	Dimensions	
						H	WxD
18-2944	\$3.00	PP	9	200-550 KC	SOCKET	2	1-1/2
18-2943	1.50	PP	8	.55-1.5 MC	SOCKET	1-3/4	1
18-2942	1.50	PP	8	8.6-17.6 MC	SOCKET	1-3/4	1
18-2940	1.50	PP	8	15-43 MC	SOCKET	1-3/4	1
18-2941	1.50	PP	8	43-86 MC	SOCKET	1-3/4	1

Type No.	List Price	
9693	.80	SOCKET FOR ABOVE



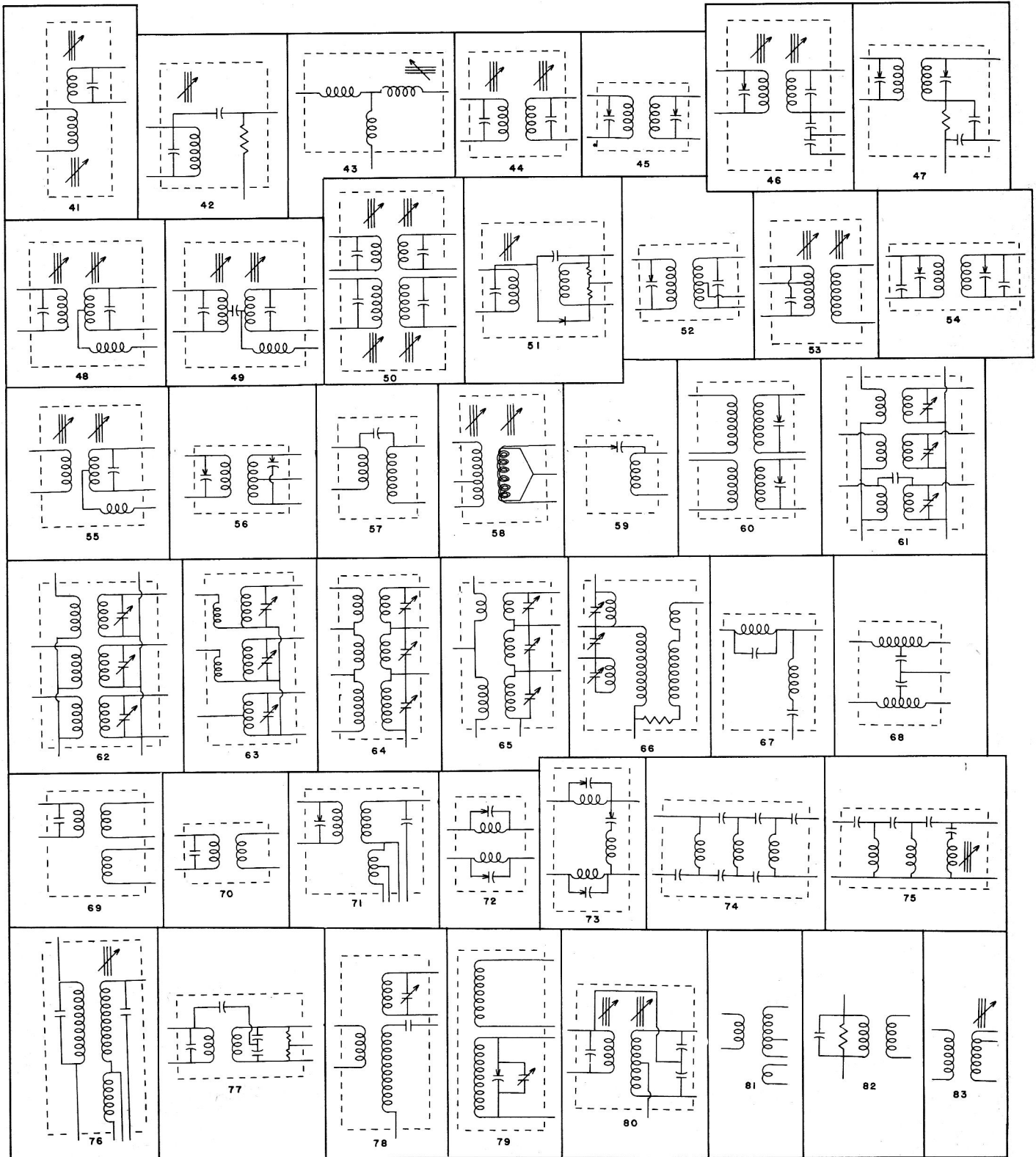


SCHEMATICS OF COILS **Listed in this Catalog**





SCHEMATICS OF COILS Listed in this Catalog





Meissner



Meissner-Miller and Meissner-Merit Cross References

MILLER	MEISSNER	MILLER	MEISSNER	MILLER	MEISSNER	MERIT	MEISSNER	MERIT	MEISSNER
12-C2	16-6758	612-C2	16-5740	4644	19-3160	TV-102	17-1002	BC-350	16-6752
12-C6	16-6770	F-612-C2	17-7412	4650	19-3660	TV-103	17-1004	BC-351	16-6754
12-H2	16-6752	612-C4	16-5742	5480-C	14-4034	TV-104	17-1011	BC-352	16-6758
12-H2	16-6754	612-H1	16-5704	5480-H	14-6590	TV-105	17-1012	BC-353	16-7600
43-A	14-1022	612-H2	16-5704	5480-J	14-6592	TV-106	17-1013	BC-354	16-6754
43-BP	14-1022	612-H3	16-5706	5480-K	14-3732	TV-107	17-1020	BC-355	16-6758
43-RF	14-1023	612-K2	16-6758	5481-C	14-1033	TV-108	17-1021	BC-360	16-6649
44-A	14-2436	612-K4	16-5730	5481-H	14-1058	TV-109	17-1023	BC-361	16-6650
44-BP	14-1004	612-W2	16-8091	5481-K	14-1028	TV-110	17-1033	BC-362	16-6651
44-RF	14-2437	612-W4	16-8099	5482-C	14-4243	TV-111	17-1043	BC-363	16-6651
EL-58	15-7520	626-A	14-1067	5482-K	14-4242	TV-112	19-1021	BC-364	16-6652
70-A	14-1071	626-C	14-1069	6155	19-3300	TV-113	16-3445	BC-365	16-6653
70-OSC	14-1074	626-RF	14-1068	6163	15-7514	TV-114	17-1023	BC-366	16-6654
70-RF	14-1072	628-A	14-1015	6164	15-7513	TV-115	17-3497	BC-367	16-6654
71-OSC	14-1040	628-C	14-1017	6165	15-7513	TV-116	17-1063	BC-368	16-6658
72-A	14-1026	628-RF	14-1016	6166	15-7512	TV-150	20-1021	BC-369	16-6659
72-OSC	14-1028	640	19-1994	6167	15-1072	TV-151	20-1004	BC-370	16-6660
72-RF	14-1027	650	19-4551	6168	15-1003	TV-160	20-1400	BC-371	16-6660
73-A	14-7413	660	19-2078	6171	19-1021	TV-161	20-1401	BC-371	16-6754
73-OSC	14-7560	670	19-8770	6172	19-3075	TV-162	20-1402	BC-375	16-6661
73-RF	14-7558	690	19-1995	6173	19-4250	TV-163	19-1575	BC-376	16-6670
112-C1	16-6666	692	19-2330	6174	19-3500	TV-180	19-3036	BC-377	16-6675
112-C3	16-6660	693	19-3247	6175	19-3001	TV-181	19-3093	BC-380	14-1026
112-C4	16-6667	694	19-2709	6176	19-3036	TV-182	19-4122	BC-381	14-1028
112-H3	16-6654	753	19-5582	6177	19-3093	TV-183	19-4180	BC-382	14-1027
112-H6	16-6754	754	19-5584	6178	19-4122	TV-184	19-3180	BC-383	14-7413
112-K1	16-6649	755	19-5588	6179	19-4180	TV-185	19-3250	BC-384	14-7560
112-K2	16-6650	756	19-1900	6180	19-3180	TV-186	19-3075	BC-385	14-7558
112-K3	16-6651	812-BC1	15-8481	6181	19-3250	TV-187	19-4250	BC-390	14-1071
112-K4	16-6651	812-BC2	15-8480	6182	20-1401	TV-188	19-3500	BC-391	14-1072
A-121-C	14-1073	812-BC3	15-8479	6183	20-1402	TV-189	19-3001	BC-392	14-1073
241-A	14-1010	853	19-6872	6184	17-1043	TV-210	15-1072	BC-395	14-3732
241-RF	14-1011	858	19-6876	6185	17-1020	TV-211	15-1003	BC-396	14-6590
242-A	14-1004	953	19-6834	6186	17-1001	TV-220	15-7514	BC-397	14-4034
242-RF	14-1005	956	19-6840	6187	17-1002	TV-221	15-7513	BC-398	14-1028
312-C1	16-6658	1212-C	16-6661	6188	17-1003	TV-222	15-7513	BC-399	14-1058
312-C2	16-6659	1451	16-6665	6189	17-1004	TV-223	15-7512	BC-400	14-1033
312-C4	16-6660	1452	17-3484	6190	17-1011	TV-230	19-3204	BC-410	14-1010
312-C6	16-6670	1453	17-3487	6191	17-1012	TV-231	19-3210	BC-411	14-1011
312-H1	16-6652	1462	16-6675	6192	17-1013	FM-250	17-3484	BC-412	14-1022
312-H2	16-6653	1463	16-3487	6193	20-1021	FM-251	16-6665	BC-413	14-1023
312-H4	16-6654	1464	17-3484	6194	20-1400	FM-252	17-3487	BC-414	14-1022
312-H6	16-6679	1465	17-3487	6195	20-1031	FM-253	17-3484	BC-415	14-1004
352	14-8418	1466	17-1021	6196	20-1024	FM-254	16-3487	BC-416	14-1005
354	14-6856	1467	17-1023	6197	20-1032	FM-255	17-3487	BC-417	14-1004
355	14-6854	1468	17-1033	6198	20-1031	BC-300	16-5700	BC-432	17-6753
356	14-6852	1470	20-1004	6199-A	20-1033	BC-301	16-5702	BC-450	15-7515
357	14-6850	1485-C	17-3486	6199-B	20-1032	BC-302	16-3731	BC-455	15-7515
365	14-6865	3997-A	14-7476	6203	16-3445	BC-303	16-6651	BC-460	17-9373
412-C2	16-6662	3997-C	14-7480	6204	17-1023	BC-304	16-6652	BC-503	19-1994
412-C4	16-6663	3997-RF	14-7478	6205	17-3497	BC-305	16-5704	BC-504	19-4551
512-C1	16-5712	3999-C	14-1070	6210	19-1575	BC-306	16-6654	BC-505	19-2078
512-C1	16-6133	4515	19-6022	6219	17-4521	BC-307	16-5706	BC-506	19-8770
512-C3	16-3736	4517	19-7047	6300	14-7000	BC-308	16-5712	BC-508	19-1995
512-C4	16-5714	4519	19-7100	6313	20-1027	BC-309	16-6133	BC-510	19-2330
512-C5	17-6753	4525	19-3204	6314	20-1029	BC-310	16-3736	BC-511	19-3247
512-H1	16-6652	4526	19-3210	6315	20-1026	BC-311	16-5714	BC-512	19-2709
512-H3	16-6654	4528	19-1002	6316	20-1028	BC-312	16-8091	BC-517	19-5582
512-H4	16-5706	4533	19-3019	7815	15-7515	BC-313	16-8091	BC-518	19-5584
512-K1	16-5700	4537	19-3018	7818	15-7515	BC-314	16-8099	BC-519	19-5588
512-K3	16-3731	4563	19-1920			BC-330	16-6758	BC-520	19-1900
512-K4	16-5702	4564	19-1921	MERIT	MEISSNER	BC-331	16-5700	BC-527	19-6834
512-W1	16-8091	4565	19-1922	MWC-1	20-1028	BC-333	16-5730	BC-530	19-6840
512-W2	16-8091	4566	19-1923	MWC-2	20-1032	BC-334	16-5704	BC-540	19-6872
512-W3	16-8099	4602	19-1000	MWC-3	20-1034	BC-335	16-5704	BC-545	19-6876
522	17-9373	4604	19-1001	MWC-4	20-1027	BC-336	16-5706	BC-549	19-3018
590-C	16-6601	4606	19-1002	MWC-5	20-1033	BC-338	16-5740	SW-600	16-8091
590-CT	16-6603	4608	19-1003	MWC-6	20-1029	BC-339	16-5782	SW-601	16-8091
590-K	16-6600	4610	19-1004	TV-100	17-1001	BC-340	16-5742	SW-606	16-8099
590-KT	16-6602	4612	19-1005	TV-101	17-1002	BC-341	16-5784	SW-630	19-1002