CATALOGUE OF COMPONENTS NO. 9

I N D U C T A N C E S P E C I A L I S T S L T D.

SPECIALISTS IN the manufacture of RADIO & TV COILS, ASSEMBLIES, CHASSIS AND STEEL CABINETS and associated apparatus

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ADDRESS: 1277 Cameron Road South Greerton, Tauranga, N.Z.
P.O. Box 3018, Greerton.

TELEGRAMS & CABLES: "INDUCTANCE" Tauranga. TELEPHONE: 88-069

TERMS OF PURCHASE:

1. All prices stated are retail and subject to trade discount where applicable.
2. Please include sufficient with your remittance to cover cost of despatch.
3. All prices subject to change without notice.
4. TERMS: CASH WITH ORDER UNLESS CREDIT IS ESTABLISHED.
5. No claim for discrepancies unless made within fourteen days of packing slip date.
6. All goods forwarded at Customer's risk. Insurance against loss and liability for loss, customer's care.
7. We reserve the right to change the specifications of any type number without notice.

GUARANTEE: If any part is found to be electrically defective (without it having been subject to improper use) and is returned within fourteen days of delivery, it will be replaced free of charge.

GENERAL:

1. This catalogue covers our complete range of preferred types.
2. When ordering please state TYPE NUMBER of component and also COIL SERIES LETTER (See Sect. 1) and Oscillator coupling letter or converter valve (See Sect. 7.)
3. Please PRINT YOUR NAME AND ADDRESS and state preferred method of despatch.

INDEX:

SECTION 1 — COIL SERIES LETTERS

"A" series For tuning condensers of 440pfd swing
"B" series For tuning condensers of 360pfd swing (available only in type numbers shown thus*)

SECTION 2 — CONDENSERS Tuning - Padding - Trimming

Tuning Condensers for "A" series coils. (440pfd swing)

Type C1043	Three-gang "Polar" (without trimmers)
Type C1042	Two - gang "Polar" (without trimmers)
Type C9003/2	Three-gang "Polar" (with vernier drive and trimmers)
Type C9002/2	Two - gang "Polar" (with vernier drive and trimmers)
Type K2	Two - gang "Plessey" (without trimmers)
Type K3	Three-gang "Plessey" (without trimmers)

Tuning Condensers for "B" series coils (360pfd swing)

Type DF/2 — For "B" series coils, 455k/c cutaway oscillator plates (No padder required). Vernier control.

Tuning Condensers for transistor portables (200pfd swing)

Type	Three-gang
Type	Two - gang
Type	Two - gang (personal portable)

Padding Condensers

Type	600pfd variable	Type	1416pfd 2% fixed
Type	495pfd 2% fixed	Type	1565pfd 2% fixed
Type	395pfd 2% fixed	Type	4500pfd 2% fixed
Type	250pfd 2% fixed		

Trimming Condensers

Type	5/50 Mica ceramic
Type	2/20 Ceramic tubular

SECTION 3 — DIAL MOVEMENTS

Type D/4-Mk2 — A small horizontal slide-rule dial, floodlit, for scale SC/16. Overall size 7-11/16" x 4" (Escutcheon window size $2\frac{1}{8}$" x $5\frac{1}{8}$")

Type D/5 — A large horizontal slide dial - spin tuner - floodlit, for scale type SC/11 (broadcast) SC/12 (dual wave) and SC/13 (triple wave).

Type D/6/3 — A dial/gang combination with glass floodlit scale, three-gang condenser, with vernier drive and fitted with trimmers. Ideal for Auto sets - small broadcast receivers - portables etc. (For "A" series coils)

Type D/8 — Instrument dial. Size 6" x 4". Planetary drive supplied with 4 scales, two of which incorporate an abitrary scale 0-100. Scale is covered with a celluloid window. Ideal for communication and commercial equipment, test gear etc. Scales Sc/22 & SC/23 can be purchased separately.

SECTION 4 — DIAL SCALES AND ESCUTCHEONS

Scales

Type SC/11	Broadcast.	Glass floodlit for D/5 movement and "A" series coils.
Type SC/12	Dualwave	Glass floodlit for D/5 movement and "A" series coils.

cont'd ....

SECTION 4 (CONT'D)

Scale type SC/13 triplewave. Glass floodlit for D/5 movement and "A" series coils.

type SC/14 bandspread. Replacement for basic kit B/9.

type SC/15 bandspread. Replacement for basic kit B/10.

type SC/16 A small broadcast two coloured glass floodlit scale for dial movement D/4-Mk2 & "A" series coils.

type SC/17 bandspread. Replacement for basic kit B/9 Mk3

type SC/18 glass circular 2" diameter broadcast calibrated scale with mounting bush for type DF/2 gang "B" series coils.

type SC/19 control indicators for B/9 Mk3;celluloid.

type SC/20 control indicators for B/10 Mk3; celluloid.

type SC/22 paper scale for D/8 instrument dial with 0-100 arbitrary scale.

type SC/23 paper scale for D/8 instrument dial with blank scales.

Escutcheons

Type P57 Florentine bronze (suitable for scales Sc/11,12,13,14,15 Window 8½" x 4½" & 17.

SECTION 5 AERIAL COILS (For valve use)

Broadcast shielded in 1⅜" sq. x 1½" cans

*Type P10 Adjustable iron core H.I.P.

*Type 140 Iron core(tapped for Auto or short aerials not exceeding 150 pfd)

Shielded in 13/16" sq. x 1⅝" miniature cans. Ferro-enclosed.

*Type 190 Broadcast. Adjustable iron core. H.I.P. (See Sect.17,No.7)

*Type 200 Broadcast. Adjustable iron core. Tapped type for Auto or short aerials not exceeding 150pfd. (See Sect. 17, No. 7)

Type 240 Medium band. 1.7 - 6m/c's high gain, ferro-enclosed, tapped at ⅓.

Unshielded types.

*Type 30 Broadcast iron core H.I.P.

*Type P30 Broadcast Poly "Q" adjustable iron core, H.I.P.

Type 40 Broadcast universal replacements, adjustable in inductance to replace any damaged aerial coil using gang swings from 360 to 480 pfd. (See Sect. 18, No. 1)

Type 50 Broadcast air core. H.I.P.

Type P60 Shortwave 6 - 20m/c Poly. "Q" adjustable iron core.

Type P70 Medium wave. 1.7 to 6m/c's Poly "Q" adjustable iron core.

Aerial coils for transistor use (ferro-enclosed)

*Type 250 Broadcast adjustable iron core in 13/16" sq. x 1⅝" can.

Type1100 Broadcast. Coded yellow 230-550uH set at 460uH in 10mmsq x 12.5mm sub-miniature can.

Type1110 Broadcast. Coded yellow 130-260uH set at 224uH in 10mm x 12.5mm sub-miniature can.

Loops.

*Type 80 Broadcast portable loop aerial with primary 4½" x 8"

Type 150B Broadcast portable loop aerial with primary 2¼" diameter.

Type210A/B Broadcast ferrite rod aerial 8" long with mtg. brackets.

Type 290 Broadcast TRANSISTOR ⅜" x 8" ferrite rod. 250/500uH, coil only.

Type 210/1 Broadcast rod aerial coil for ⅜" x 8" rod TRANSISTOR coupling winding (Coil only)

*See Section 1 - See also Section 17.

Top capacity coupling condenser supplied with high impedance primary coils. (H.I.P.)

SECTION 6 — R.F. COILS (For Valve Use)

*Type P15 Adjustable iron core H.I.P. B/Cast, shielded in $1\frac{3}{8}$" x $1\frac{1}{2}$" Cans.

Shielded in 13/16" sq. x $1\frac{5}{8}$" miniature cans. Ferro-enclosed

*Type 115 Broadcast, adjustable iron core H.I.P. A 100pfd condenser must be fitted across primary in operation (See Section 17, No. 10 and Section 18, No. 7.)
Type 155 Medium band 1.7 to 6 m/c's High gain with primary.

Unshielded Types.

*Type 35 Broadcast iron core H.I.P.
*Type P35 Broadcast Poly "Q" adjustable iron core.
Type 45 Broadcast universal replacements. Adjustable in inductance to replace any damaged RF coil using gangs of swings from 360 to 480pfd (See Section 18, No. 1).
*Type 55 Broadcast air core H.I.P.
Type P65 Shortwave 6 to 20m/c's. Adjustable iron core.
Type P75 Medium wave 1.7 to 6m/c's. Adjustable iron core.

Top capacity coupling condensers supplied with high impedance primary coils (H.I.P.)

R.F. Coils for Transistor Use (ferro-enclosed)

Type 135 Broadcast adjustable iron core in 13/16" sq. x $1\frac{5}{8}$" can.
Type 1105 Broadcast. Coded red. 230-550uH set at 460uH in 10mm sq x 12.5mm sub-miniature can.
Type 1115 Broadcast. Coded red 130-260uH set at 224uH in 10mm sq. x 12.5mm sub-miniature can.

SECTION 7 — OSCILLATOR COILS (For valve use)

Coupling Letter Code and Padder Values.

Broadcast Shielded in $1\frac{3}{8}$" sq. x $1\frac{1}{2}$" Cans.

*Type P11XY 455k/c adjustable iron core (See Sect.17, No. 11 and Sect.18, No. 6)
*Type 21 175k/c air core
*Type 131 262k/c air core
Type 141 355k/c Fixed tuned for conversion 455k/c to 100k/c IF

Unshielded Types

*Type 31 Broadcast 175k/c air core
Type 41 Broadcast universal replacements, adjustable in inductance to replace any damaged oscillator coil using swings 360 to 480pfd and IF frequencies from 170 to 465k/c (See Sect. 18, No. 1).
*Type 51 Broadcast 455k/c air core.
*Type P51XY Broadcast 455k/c Poly "Q" adjustable iron core (See Sect. 17, No. 11 and Sect. 18, No. 6)
Type P61 Shortwave 6 - 20m/c. 455k/c adjustable iron core.
Type P71 Medium wave 1.7 to 6m/c. 455k/c adjustable iron core.
Type 81B Broadcast 455k/c (7/16" x $\frac{3}{4}$") Self supporting.
*Type 91 Broadcast 262k/c air core.
Type 151 Oscillator Coil for tape recorder erase unit (See Sect. 16 circuit)

Shielded in 13/16" sq. x $1\frac{5}{8}$" miniature cans.

*Type 111 455k/c adjustable iron core (See Sect. 17, No. 11 and Sect. 18, No.'s 6 & 7)

Oscillator Coils (for transistor use)

*Type 191 Broadcast 455k/c transistor in 13/16" sq. x $1\frac{5}{8}$" can.
Type 1101 Broadcast. Transistor 10mm sq. x 12.5mm. Code green 200pfd condenser. Inductance 200-400uH.
Type 1111 Broadcast. Transistor Code green 365-440pfd condenser 10mm sq. x 12.5mm. Inductance 100 - 130uH

Coupling Letters

"X" for grid tuned circuits and converters 6K8, ECH 35 etc.

"Y" for grid tuned circuits and converters 2A7, 6A7, IR5 etc and is also suitable for most types of converters in plate tuned circuits, ECH35, 6K8 etc. (and for ECH21 and ECH81 shunt 1.5K across primary).
"V" tapped for 6BE6. (Also suitable for most tapped circuits).

SECTION 7 (CONT'D)

"XY" combining both couplings according to which side of secondary the iron core is set for correct inductance. Supplied in "X" position. (See Sect.17, No.11, also Sect 18, No. 6)

Padder Values.

Broadcast 455k/c I.F. - - - - - - - - 600pfd variable
Broadcast 175k/c I.F. - - - - - - - -1000pfd variable
Broadcast 262k/c I.F. - - - - - - - - 600pfd variable
Broadcast 455k/c I.F. - - - - - - - - 495pfd (fixed) 2% for "A" series adjustable iron core coils only, and when used with our recommended dial and scale.

Broadcast 455k/c I.F. - - - - - - - - 395pfd fixed 2% for "B" series coils with adjustable iron core slugs (for 360pfd swing gang)

Broadcast 455k/c I.F. - - - - - - - - 250pfd fixed 2% for coils using a 200pfd swing gang.

Medium band(1.7-4m/c) 455k/c I.F. -- 1000pfd fixed across 600 variable
Medium band(1.7-6m/c) 455k/c I.F. -- 1416pfd fixed 2% for "A" series, adjustable iron core coils only and when used with our recommended dial and scale.

Shortwave (6-20m/c) 455k/c I.F. -- 4500pfd (fixed) 2% for "A" series adjustable iron cores only, and when used with our recommended dial & scale (See Sect 17 for notes)

SECTION 8 INTERMEDIATE FREQUENCY TRANSFORMERS

Air core, mounted in $1\frac{3}{8}$" sq. x 3" cans

Type 152,455k/c Litz wound adjustable "C" B.W. 10k/c GF. 80
Type 182,175k/c Solid wound adjustable"C" B.W. 9k/c GF. 160
Type 222,262k/c Solid wound adjustable"C" B.W. 10k/c GF. 120

Iron Core, mounted in $1\frac{3}{8}$" sq. x 3" cans

Type 82, 100k/c Ferro enclosed, adjustable "L" B.W. 1.8k/c GF. 140
Type 122 455k/c Litz wound, adjustable "L" B.W. 10k/c GF. 90
Type 142 455k/c Litz wound, adjustable "C" B.W. 12k/c GF. 110
Type 272 455k/c Solid wound, adjustable "L" interstage (for 2-stage amplifiers, B.W. 13k/c GF. 37.
Type 282 455k/c Litz wound adjustable "L" diode (for 2-stage amplifiers. B.W. 13k/c GF. 48.
Type 162 455k/c Litz wound adjustable "L" B.W. 9k/c GF.130.
Type 292 455k/c Litz wound adjustable "L" Band expansion two-position diode. B.W. 12k/c-20k/c GF. 52
Type 192 455k/c Litz wound adjustable "L" Band expansion two-position interstage B.W. 10k/c to 20k/c GF. 90
Type 212 1600k/c Litz wound adjustable "L" B.W. 50k/c ------ GF. 36
Type 112 2000k/c Litz wound adjustable "L" B.W. 60k/c ------ GF. 32
Type 102 100k/c Solid wound adjustable"L" B.W.4.4k/c ------ GF.190

Iron core miniature, mounted in 13/16" sq. x $1\frac{5}{8}$" cans.

Type 32 1st & 2nd I.F. Transformer. 455k/c for 2-stage transistor amplifiers.
Type 72 3rd I.F. Transformer diode for 2-stage transistor amplifiers.
Type 132 455k/c pot type single tuned winding adjustable "L" "Q" = 120. (See Sect. 17 No. 7A)

Iron Core miniature mounted in 13/16" sq. x $2\frac{3}{8}$" cans.

Type 202 4.5m/c Adjustable "L" ---------- B.W. 130k/c
Type 92 10.7m/c Adjustable "L" ---------- B.W. 100k/c
Type 112/1 2m/c Adjustable "L" ---------- B.W. 60k/c
G.F. 30

Iron Core miniature, mounted in 13/16" x 2" cans.

Type 302 455k/c Pot type, adjustable "L" BW 10k/c G.F. 113
Type 312 455k/c Litz wound adjustable "L"BW 12k/c G.F. 75

CONT'D . . . .

SECTION 8 (CONT'D)

Miniature 10m/m sq. x 12.5m/m transistor IF Transformers.

Type 1102	455k/c 1st stage	Code Brown
Type 1112	455k/c 2nd stage	Code white
Type 1122	455k/c 3rd stage	Code Natural colour.
Type 1132) Type 1142)	455k/c 1st stage	Matched pair. Double tuned

1st transformer (1132) Pink) Should be used in conjunction
2nd transformer (1142) Blue) with 2nd stage type 1112 -
) diode type 1122

NOTE:

B.W. = Bandwidth of one transformer at x 2 with iron cores (if adjustable) in outer position.

G.F. = Gain factor, a relative figure only taken on the same test equipment. Load... (5 meg. (Interstage))
(250K (Diode))

SECTION 9 HIGH FREQUENCY CHOKES

Type	Inductance	Current	Ohms. D.C.	Former	Pies	Bands
13	-	-	-	-	-	-
23	1.0mH	300m/a	9	Ceramic	3	-
33	2.5mH	125m/a	35	Ceramic	4	-
43	4.0mH	600m/a	10	Ceramic	5	80 & 160
53	1.0mH	300m/a	9	Ceramic	5	20, 40 & 80
73	1.3mH	300m/a	11	Ceramic		All wave.
83	10.0mH	125m/a	80	Bakelite		-

133 45 mH High tension filter choke for Neon signs for the elimination of radio interference, generated by H.T. Neon sign animators and tubing.

143 Adjustable range 16 to 27mH DC resistance 80 ohms.

153 Adjustable range100 to130mH DC resistance 230ohms.

233 Solenoid transmitting choke 1" dia. x 6" in length. Exhibits an equivalent parallel resistance of at least .25 Meg.ohms from 3.5m/c to 30m/c. Has one series resonance at approx. 24m/c. Voltages up to at least 3,000V.

313 Solenoid transmitter choke $\frac{1}{4}$" dia. x 5" in length similar to above.

333 Adjustable ferro-enclosed (minimum external field) 88-400mH DC resistance 320 ohms tapped at 1/6th. Size $\frac{3}{4}$" sq. x $1\frac{3}{8}$" Max. current rating 20m/a

343 As above, adjustable from 13-90mH. DC resistance 75 ohms. Max. current rating 100 m/a.

353 As above, adjustable from 1.6 to 13.5mH, tapped at 1/6 th. DC resistance 20 ohms. Max. current rating 100 m/a.

NOTE:

A comprehensive range of TV peaking chokes and RF chokes of numerous values are also available ex stock. The following is a list of some types and values:-

TV Peaking Chokes	RF Chokes wound on iron core pigtail formers
1.5uH	500uH
3 uH	1mH
22 uH	1.5mH
28 uH	2.5mH
47 uH	5mH
100 uH	10mH
135 uH	
150 uH	
330 uH	

A FULL RANGE OF TV & BROADCAST FILTER CHOKES, PIGTAIL TYPES AND TOROIDS ALSO AVAILABLE IN CURRENT RATING FROM 1 to 10 AMPS (SEE SECT 11)

SECTION 10. COIL ASSEMBLIES & BFO'S

Type P24AZ Dualwave assembly. Single pre-selector stage broadcast & short wave (6-20m/c's. Single mounting hole. Completely wired and air tested. Poly "Q" coils throughout I.F. 455k/c. Converter ECH21 or ECH81.

CONT'D. . . . .

SECTION 10 (CONT'D) COIL ASSEMBLIES

Type P34AY Coil assembly. Similar to type P44 but suited for Marine use and covering the bands 540-1700 and 1.7 to 4m/c's (send for pamphlet).

Type P44AZ Dualwave assembly with RF amplifier. Poly "Q" coils throughout. Completely wired and air tested. Broadcast and shortwave 6-20m/c for ECH21 or ECH81 and can be modified for ECH35 or 6K8. IF 455k/c (send for descriptive pamphlet)

Type P74AZ Triplewave. As type P44AZ. Broadcast - medium band 1.7 to 6m/c) shortwave (6-20m/c). (Send for descriptive pamphlet)

Type 204 BFO.455k/c tapped with pre-set condenser in 1⅜" sq. cans
Type 214 BFO.1600k/c tapped with pre-set condenser in 1⅜" sq. cans
Type 224 BFO.100k/c with primary & adjustable "L" BFO fine adjustment made with external 40pfd variable condenser (variable condenser not supplied).
Type 234 Oscillator coil for C.R.T. H.T. supplies, 2 000V 1-watt.

SECTION 11 RADIO & TV INTERFERENCE SUPPRESSION

We have specialised in the design and manufacture of radio and TV filters and suppressors. Many special shaped inductors have been designed to fit MANUFACTURERS' APPLIANCES.

A full range of both TV and radio suppressor chokes are available in current ratings for 500m/a to 10-amps. Also complete Line Cord Filters and fixed wall types. An illustrated brochure containing valuable technical information is available on request.

Type 244 Interference suppressor, broadcast (cord insertion type) in cast case(suitable for hard use in Garages, Workshops etc) 1-amp.
Type 284 As above but 2-amp
Type 254 As above but 3-amp
Type 264 As above but 6.5-amp
Type 274 Fixed wall type 10-amp. filters both b/cast & TV frequencies
Type 294 - - - - - -
Type 304 TV aerial suppressor unit (series L & C) to eliminate interference signals at frequencies betweem 35 & 45m/c.
Type 314 TV aerial ribbon suppressor unit absorption type (parallel L & C at frequency between 30 & 60m/c

TV Interference Inductors

163	1-amp Unprotected	193	4-amp Unprotected
163/1	1-amp Protected	193/1	4-amp Protected
163/2	1-amp Protected with FL	193/2	4-amp Protected FL
173	2-amp Unprotected	203	5-amp Unprotected
173/1	2-amp Protected	203/1	5-amp Protected
173/2	2-amp Protected with FL	203/2	5-amp Protected FL
183	3-amp Unprotected	213	8-amp Unprotected
183/1	3-amp Protected	213/1	8-amp Protected
183/2	3-amp Protected FL	213/2	8-amp Protected FL
		223	10-amp Unprotected
		223/1	10-amp Protected
		223/2	10-amp Protected FL

NOTE: FL = FLEXIBLE LEADS

Broadcast Toroid Filter Coils (dual windings)

243 1-amp
253 3-amp
263 6-amp
273 10-amp
283 2-amp

Filter Condensers (to BSS 613) (Delta Connected)

SPM 202 Dubilier	1 x .1	2 x .005
Seimans	1 x .1	2 x .005
TCC	1 x .01	2 x .005

Broadcast Pigtail Filter Coils (Single windings)

Type 303 500m/a
850uH ½" in length

Type 323 500m/a
850uH 1" in length

Specially designed for inclusion in fractional horsepower motors and other equipment having restricted space.

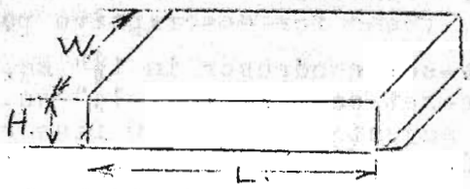
Single Ceramic Disc Condensers
4.5KV test
.01 & .005

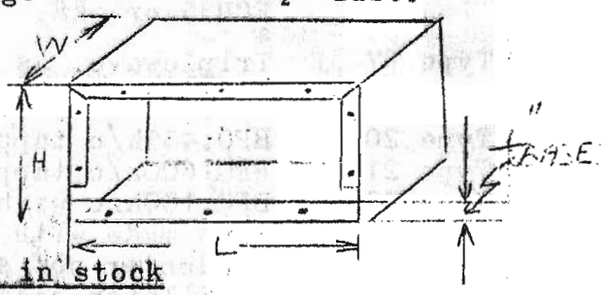
SECTION 12 PUNCHED CHASSIS, BLANK CHASSIS & STEEL CABINETS

We offer a 48-hour SERVICE for any size of special blank chassis or steel cabinet. When ordering please show clearly the dimensions shown in sketch and the material and gauge required, e.g. Aluminium Alloy, Steel and Zinc coated Steel.

Example: Chassis 20g. Aluminium Alloy
L=10"; W=6"; H=2" outside flange

NOTE: "H" includes ½" base.





Standard blanks in Aluminium Alloy held in stock

7 x 3 x 2	20 gauge	11 x 5 x 2½	18 gauge
7 x 5 x 2	20 gauge	14 x 5 x 2	18 gauge
10x 6 x 2	20 gauge	15 x 9 x 2½	18 gauge

Examples of Cabinets, Chassis and Panels

Panel	6 x 9	Panel	6 x 9
Chassis	7 x 3 x 2	Chassis	9 x 6 x 5½
Cabinet	3½x 9 x 5½	Cabinet	7 x 5 x 3

Punched Chassis All punched chassis types stated below offered at special price of 50 cents each while stocks last.

Type 17 5 valve 11" x 7" x 2½" in crackle black for octal or loctal valve.

Type 27 As type 17, but Rimlock valves.

NOTE: Both the 17 and 27 chassis are ideal for audio amplifier use.

Type 37 Portable chassis 8½" x 3" x 3" (as used in our B/5 portable basic kit).

Type 47 6-8 valve plated chassis suitable for coil assemblies, type 44 & 74 & associated parts. Also for broadcast use. (Octal or Noval chassis)

Type 47A Coil mounting bracket for type 47 chassis for broadcast use when 1⅜" square broadcast coils are used.

Type 37A Battery box to house three No. 6 cells as used with our portable kit.

Type 67 Tuner chassis, to accommodate a maximum of 5 rimlock or noval valves. Ideal for broadcast use or dual or triple wave assemblies. A sturdy plated steel chassis (Mounts our D/5 dial assembly.)

Type 97 Audio chassis, which accommodates tuning and I.F. units, measuring 5¼" x 3" which can be used with either 4" speaker or 3" speaker with cutout in front of chassis. Cut out is marked for convenience when 3" speaker is used. Transistor amplifier.

Type Part 70 Mounting bracket for 2/stage IF strip. Transistor amplifier.

Type Part 71 Mounting bracket for Vernier gang, oscillator coil and converter transistor. (This item plus above two items form the basic chassis for our B/14 transistor kit).

SECTION 13 BASIC KITS AND SUGGESTED COIL KITS

Basic Kits

Type B/9 Bandspread completely assembled, wired and tested up to converter tube and fitted to sub-chassis. Accurately aligned to dial calibration. Five bands. Broadcast - 49 - 31 - 25 & 19 metres. (Write for descriptive pamphlet)

Type B/10 Amateur version of the B/9 covering the broadcast - 160/80 40-20 and 15/13 metre bands. Dial calibration clear and a linear 0-100 logging scale is incorporated. (Write for descriptive pamphlet) Fitted to tuner chassis, type 67. (See Sect. 12).

CONT'D . . . .

SECTION 13 (CONT'D) BASIC KITS & SUGGESTED COIL KITS

Transistor personal portable using 10mm sq. coils and 200pfd two-gang condenser. Single pre-converter stage (See Sect. 2)

⅜" x 8"	Rod aerial winding	290
	Oscillator coil	1101
	1st I.F. Coil 455k/c	1102
	2nd I.F. Coil 455k/c	1112
	3rd I.F. Coil 455k/c	1122

If gang has sections of equal capacity use padder value of 250pfd 2% fixed.

Transistor personal portable using 10mm sq. coils and 200pfd. per section three gang with R.F. stage (See sect. 2)

⅜" x 8"	Rod aerial winding	290
	or aerial coil	1100
	R.F. coil	1105
	Oscillator coil	1101
	1st I.F. pair (double tuned)	1132) 1142)
	2nd stage	1152
	3rd stage	1122

If gang has sections of equal capacity use padder value of 250pfd 2% fixed.

Transistor personal portable using 10mm sq. for 360pfd two-section gang single pre-selector stage

8" rod aerial	210/1
Oscillator coil	1111
1st I.F.	1102
2nd I.F.	1112
3rd I.F.	1122
Gang	DF/2 with Vernier (cutaway plates for oscillator section. No padder required)
Dial scale & bush	SC/18

Other 10mm sq. transistor coils under development employing silicon planar transistors include:-

(a) Broadcast with and without RF stage.
(b) Dualwave Broadcast and Shipping band (1.6-4m/c)
(c) Three-band - Beacon band (200 - 400k/c)
Broadcast band and Shipping band (1.6 - 4m/c)

Type B/14 7 transistor basic kit, using 13/16th sq. coils, consisting of audio chassis, I.F. chassis, aerial/oscillator chassis, tuning condenser, scale, oscillator coil, 1st, 2nd and 3rd transformers, and rod aerial winding (Write for descriptive pamphlet).

SUGGESTED COIL KITS

Six to eight valve dual or triple wave receiver

Coil assembly type	P44 or P74	
I.F. Transformers	Types 122 or 162 or 262 (two of each)	
Gang	Type	C1043 (3-gang)
Dial & Scale	Type	D/5-SC/12 or SC/13 (dual or triple wave)
Chassis	Type	47
Escutcheon	Type	P57

High Gain Broadcast Receiver with R.F. stage

Aerial	Type	P10A
R.F.	Type	P15A
Oscillator	Type	P11A (state converter tube)
I.F. Transformers	Type	122 or 162 or 302 (two of each)
Gang	Type	C1043 (3-gang)
Trimmers	Type	5/50 (three)
Dial & Scale	Type	D/5 SC/11
Escutcheon	Type	P57
Padder	Type	495 - 2% fixed
Chassis	Type	47, with bracket type 47A

CONT'D . . . . .

SECTION 13 CONT'D BASIC KITS & SUGGESTED COIL KITS

5-valve Broadcast (no RF stage)

Aerial	type P30A or 30A
Oscillator	type P51A or 51A (state converter tube)
IF Transformers	types 122 or 302 or 162 (two of each)
Padder	type 495 - 2% fixed (for "P" series coils only) otherwise 600 pfd variable.
Gang	type C1042 (two-gang)
Dial and scale	type D/5 SC/11
Escutcheon	type P57
Trimmers	type 5/50 (2) chassis type 47

High Gain Auto Receiver

Aerial	type 200A
R.F.	type 115A
Oscillator	type 111A (state converter tube)
Dial/gang comb.	type D/6/3
Padder	type 495 - 2% fixed
Aerial cable	low loss, low capacity, complete with plugs and sockets
IF Transformers	type 302 (two)

5-Valve Dualwave Receiver (Single pre-selector stage)

Coil assembly	type P24A (state converter tube)
IF Transformers	type 122 or 162 or 302 (two of each)
Gang	type C1042
Dial and Scale	type D/5 SC/12
Escutcheon	type P57
Chassis	type 47

SECTION 14 TELEVISION COILS & COMPONENTS - VIDEO & AUDIO STRIPS

Type 852	Trap 40.4 m/c
Type 862	Trap 33.4 m/c
Type 872	Trap 31.9 m/c
Type 882	Input coil
Type 892	Bifilar interstage coil
Type 902	Bifilar interstage coil & video detector.
Type 912	5.5 m/c trap or 5.5 m/c single tuned winding
Type 922	5,5 m/c quadrature winding
Type 932	Line oscillator coil 35 to 60mH tapped at ¼ turns.

Philips TV tuners complete with valves

SECTION 15 IF BOBBINS, AUTO AERIAL CABLE, RADIO & TV ADJUSTING TOOLS, COIL CEMENT, TOOLBOXES, HEATERS, METAL FOLDERS, DISPLAY STANDS, MISC. COMPONENTS.

I.F. Bobbins 175 k/c I.F. Bobbins 455 k/c

Auto connecting cable low capacity, complete with plug & connections 3ft. and 4ft.

Radio & TV adjusting tools

AT1 (Hex. one end, screwdriver other)	5"
AT2 (Hex. both ends)	9"
AT3 (Hex. both ends)	15"

Polystyrene Coil cement: 1-oz bottles 5-oz tins

Tool Boxes: 19" with insert tray, reinforced sides, grey finish over zinc coated steel.

Tool Boxes: 12" with insert tray, reinforced sides, grey finish over zinc coated steel.

Nut & Bolt Box: 7 divisions in box and 7 divisions in insert.

Metal drawer-Cabinets: In units of 4 or multiples of 4. Size of each drawer 5" x 4" x 1½"

Sihgle Bar Heaters: A safe, stable sturdy two-angle electric single-bar 1,000 watt heater. Ideal for spare room or childrens room.

Metal Folders: Vice type metal folder, makes chassis, boxes etc. So cheap no repair shop should be without one.

Display Stands: Single 8½" x 4½" Double 8½" x 9"

Name Stands: Single sided 12" x 1½" Double sided 12" x 1½" . . .

Cont'd....

SECTION 15, (CONT'D)

Wave Change Switch: Plessey, single bank 6-pole two way.

Wave Change Switch: Plessey, two bank, two pole, three way.

SECTION 16: COIL CODING, BASE CONNECTIONS & CHASSIS MOUNTING HOLES

Intermediate frequency transformers, Aerial RF & Oscillator Coils

Connection	Colour or No.	
Aerial or plate	Yellow	1
Earth or H.T.	Red	3
Grid	Green	4
Earth A.V.C.(or padder)	Black	6

NOTE: When using OSCILLATOR COILS IN PLATE TUNED CIRCUITS Green and black (or 4 & 6) become plate and padder, and Yellow and Red (1&3) become Grid and Earth.

Tapped Aerial or Oscillator Coils

Connection	Colour or No
Earth or "earthy" end	= Black 6
1st tap	= Yellow 1
2nd tap (if applicable)	= Red 3
Grid	= Green 4

Identification colours for 10mm sq. Transistor Coils

Aerial	= Yellow
R.F.	= Red
Oscillator	= Green
1st IF Transformer	= Brown
2nd IF Transformer	= White
3rd IF Transformer	= Natural

Matched pair I.F. Transformers 1st stage = Pink/Blue

ADDITIONS

Transistor Coils in 10mm Square Cans

Type 1220 Aerial Coil (Shipping Band) 17-23uH (set at 19uH)
Type 1225 R.F. Coil (Shipping Band) 17-23uH (set at 19uH)
Type 1221 Oscillator Coil (Shipping Band) 15-20uH (set at 16uH)

Type 1235 R.F. Coil (Beacon Band) 600-1200uH (set at 1100uH)
Type 1231 Oscillator Coil (Beacon Band) 200-400 uH (set at 335uH)

Type 1232 10.7m/c I.F.Transformer single tuned

Transistor Coils in 7mm Square Cans

Type 1200 Aerial Coil (Broadcast Band) 200-500uH (set at460uH)
Type 1205 R.F. Coil (Broadcast Band) 200-500uH (set at460uH)
Type 1201 Oscillator Coil (Broadcast Band) 200-400uH

Type 1202 1st I.F. Transformer Brown
Type 1212 2nd I.F. Transformer White
Type 1222 3rd I.F. Transformer Natural

Type 164 Transistor Permeability Tuner - Broadcast with R.F. Stage. Size $2\frac{1}{8}$" square x $\frac{1}{2}$"

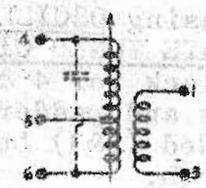
SPACE FOR YOUR NOTES ON CODING

SPACE FOR YOUR NOTES ON NEW COMPONENTS ETC

48. 58
41. 41
(17)

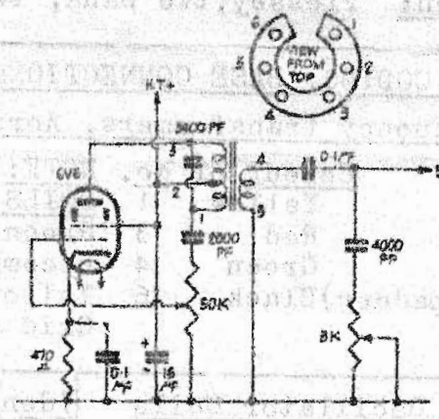
TRANSISTOR COILS GENERAL CONNECTIONS

Nos 4-5 & 6 = TUNED WINDING
Nos 1 & 3 = UNTUNED WINDING

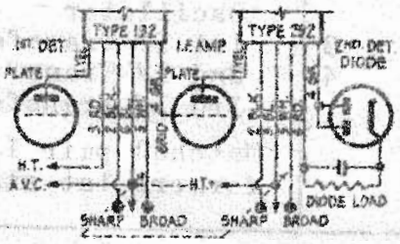


GENERALLY No 4 = COLLECTOR
GENERALLY No 1 = BASE
(BUT THIS PHASING MAY NOT NECESSARILY BE EMPLOYED.)

TYPE 151 OSCILLATOR COIL CONNECTIONS AND CIRCUIT

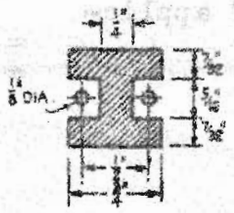


BAND EXPANSION TRANSFORMERS SWITCH WIRING

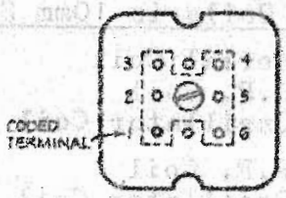


NOTE: ON INITIAL ALIGNMENT PEAK TRIMMERS ON "SHARP" POSITION.

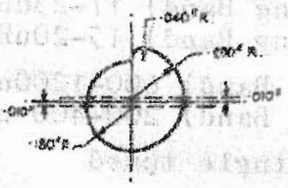
CHASSIS PUNCHING FOR MINIATURE FERRO-ENCLOSED COILS & I.F. TRANSFORMERS



BASE CODING OF STANDARD COILS WHEN ONE TERMINAL ONLY IS COLOUR CODED

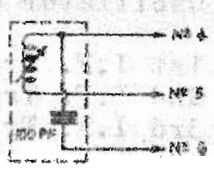


CHASSIS PUNCHING FOR UNSHIELDED "POLY Q" COILS

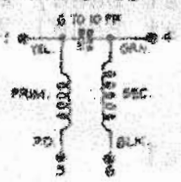


SINGLE TUNED I.F. WINDING TYPE 132

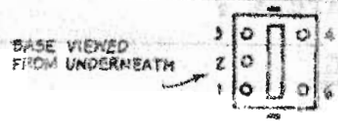
SR.D ---------- No 4
EARTHY END OF COIL ---------- No 5
EARTHY END OF CONDENSER ---- No 6
(JOIN No 5 AND No 6 TO COMPLETE TUNED CIRCUIT.)

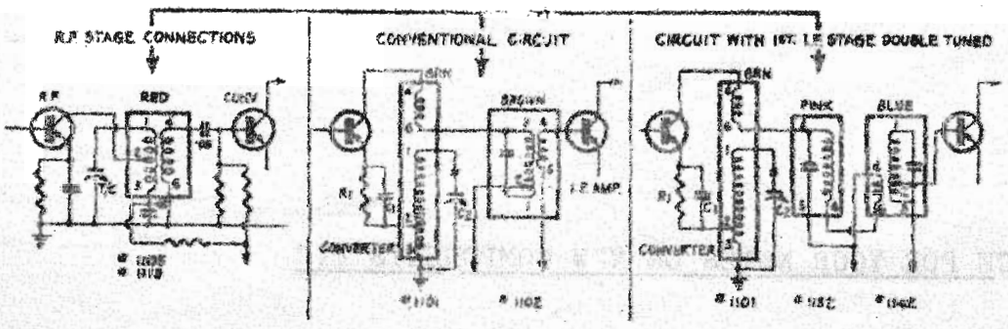


CONNECTION OF "TOP CAPACITY CONDENSER" SUPPLIED WITH HIGH IMPEDANCE AERIAL AND R.F. COILS



CIRCUIT & CONNECTIONS FOR 10 MM. SQUARE TRANSISTOR COILS





SECTION 17 GENERAL TECHNICAL DATA

1. Order "A" or "B" series coils and state type numbers required, Also state oscillator coupling letter (See Sect. 1 & 7)

2. Use 5/50 trimmers. (Higher than usual trimmer capacity is cometimes used to restrict band coverage with large capacity swing tuning condensers and spread out calibration.

3. When using aerial, RF and oscillator coils fitted with adjustable slugs, it is important that the core positions are not altered unless coils are being used with fixed padders of correct value, and recommended tuning condenser, dial movement and scale. These coils have been accurately matched for correct operation (See Sect. 17, No.4)

4. When using adjustable slug aerial, RF and oscillator coils with our recommended tuning condenser, dial movement and scale, and fixed padder of correct value and tolerance, receiver alignment becomes simple and accurate. Proceed as follows:-

Ensure pointer commences exactly at beginning of scale low frequency end (or at index line if shown) and set both receiver pointer and signal generator at 1400k/c calibration. Adjust oscillator trimmer to bring in signal, and aerial and RF trimmers for maximum response. Next, set receiver pointer and signal generator at 600k/c and adjust oscillator iron core to bring in signal, and aerial and RF cores for maximum response. Repeat this cycle of operations until adjustments remain the same each time. The procedure is carried out on all other bands at appropriate alignment frequencies.

5. With all adjustable slug coils using threaded formers, it is important to appreciate that there are two positions of the core, one either side of tuned winding where correct inductance will be obtained. This core position will in some instances, considerably influence the coupling between primary and secondary, and adjustments should therefore be made with care, to ensure that the core position remains on the correct side of tuned winding as supplied and adjusted from the factory. The above fact is used to advantage in our "X" plus "Y" coupling oscillator coils, to obtain both couplings from the one coil. (See Sect. 7, "Coupling letters" and also Sect. 17, No. 11 and Sect 18, No. 6)

6. When using oscillator coils in circuits or with converter tubes other than those specifically recommended for the coil coupling letter the grid current should be carefully checked to ensure correct operating conditions, and this is best done by connecting a current meter in series with the grid resistor at the "earthy" end and measuring the grid current. The correct grid current through a given grid resistor is stated in valve characteristic charts and is affected by the values of grid or plate condenser, grid resistor, plate load and H.T. Voltages. If current is excessive it can usually be satisfactorily reduced by shunting the untuned winding with a resistor of appropriate value.Our shortwave oscillator coils have a 5,000 ohm resistor shunted across the primary to reduce excess grid current at the high frequency end,while maintaining the recommended value at the low frequency end.

7. Many windings can be used for purposes other than those for which they have been specially designed and as a guide we list a few examples:-

(a) Single winding tuned IF (type 132) for variable selectivity IF units - IF oscillators - low impedance coupling at IF frequency.

(b) Tapped aerial (type 140 and 200) for single winding pre-selector band-pass units - oscillators etd.

(c) Crystal filter transformers type 184 and 194 give a tuned primary and untuned C.T. secondary and a tapped and tuned single winding, respectively, which can be used for many purposes.

8. The method of wiring tuning condensers to coils is a frequent cause of trouble even to experienced radio mechanics. The low potential end of the coils (by-pass condenser or padder) should never be earthed to the chassis, but be connected by insulated wire to the wiper of the associated tuning condenser. The frame of the gang should be thoroughly earthed. If separate chassis earths are used for tuning condenser gang and coil, miscellaneous chassis currents will be introduced into the tuned circuit and at resonance the small resultant voltage developed is amplified "Q" times (approx) at the grid, causing instability etc.

CONT'D . . . . . .

SECTION 17(CONT'D) GENERAL TECHNICAL DATA

9. Ferrite rod aerials The coil is arranged to be a sliding fit on the rod and should be adjusted in a similar manner to variable inductance aerial coils, as described in Sect. 17, No. 4 (at the low frequency end of the scale) the coils being sealed to the rod with wax after final adjustment. A primary winding can be added if required, by twisting a few turns of insulated wire round the rod. The ferrite rod should not be mounted through a metal support to form a shorted turn round the rod.

10. High Impedance Primary Broadcast aerial and RF coils are arranged to resonate (when in circuit) below the broadcast band, and if a short aerial is used additional capacity may be added across the aerial primary to prevent possible instability. It is often advantageous to shunt fixed capacity across the R.F. coil primary and in the case of type 115 R.F. coil, a 100pfd condenser must be fitted across to obtain correct operating frequency of primary.

11. "X" - "Y" Oscillator Coupling Coupling between primary and secondary windings in adjustable iron cores varies according to core position and correct inductance is obtained either side of secondary. With "X" - "Y" coupling oscillator coils, it is so arranged that "Y" coupling results with core set on primary side of secondary and "X" coupling on the other side. Coils are supplied in "X" coupling position (position furtherest from base) (See Sect 7.)

12. Approximate inductance of standard coils in common use.

"A" series secondaries aerial and RF BC = 185uH, Medium band=19uH
shortwave band = 1.66uH

"A" series secondaries oscillators 455k/c BC = 104uH
medium band = 16uH shortwave band = 1.6uH

"B" series BC secondaries, aerial and RF and oscillator
Aerial & RF = 224uH Oscillator 455k/c = 124uH

"A" & "B" series BC H.I. primaries, aerial & RF
Aerial = 1mh RF = 4 to 8mH
(both values according to application)

I.F. Transformers 455k/c = 1mH, 175k/c to 262k/c = 4 to 8mH
(according to application)

SECTION 18: CIRCUIT DIAGRAMS & TECHNICAL DATA SHEETS AVAILABLE ON REQUEST

1. SHEET S/40 Method of adjustment of variable inductance UNIVERSAL REPLACEMENT COILS
2. PORTABLE RECEIVER, 7 TRANSISTOR BASIC KIT, Type B/14, illustrated leaflet and circuit.
3. SHEET S/42 Descriptive of 5 valve AC OCTAL & RIMLOCK DUALWAVE & BROADCAST RECEIVER & OCTAL 6 to 8 VALVE AC DUAL, TRIPLE OR BROADCAST, receivers.
4. BANDSPREAD BASIC KIT TYPE B/9MK3, giving full particulars and large dial illustration.
5. SHEET S/43. Chart for type 262 miniature IF transformer and also certain other transformers giving connections and variety of bandwidths available. Also other useful particulars.
6. SHEET S/52 General information on oscillator coils.
7. SHEET S/53 Full technical data on ferro-enclosed miniature R.F. and associated oscillator coils.
8. BANDSPREAD BASIC KIT, TYPE B/10 (Amateur)
9. Pamphlet on steel products: Chassis, cabinets, toolboxes, heaters letterboxes, milk holders, lunch boxes etc.
10. D/8 instrument dials.
11. TV coils
12. 10m/m transistor coils
13. Data sheets on interference.

COIL FORMERS AND CORES	QUANTITY PRICES			RETAIL
DETAIL	100+ $ c.	10+ $ c.	2+ $ c.	$ c.
$\frac{1}{2}$" sq. x $\frac{3}{4}$" Kit (using 4mm cores)				
Former 722/1B (.19" dia)	-03	-04	-05	-10
Base Plate 5027/4 or 6PLD	-06	-08	-10	-20
Core 4x.5x10/500 or 900 DSL	-02	-03	-04	-08
Can 7100	-04	-05	-07	-14
Price of Kit	-15	-20	-26	-52
13/16" sq. x 1$\frac{3}{8}$" Kit (using 6mm cores)				
Former 5000A/6E (.3" dia)	-05	-06	-07	-14
Core H6x1x12.7/500 DSL	-01.25	-01.5	-02	-04
Can TV4	-05	-06	-07	-14
Mounting Screws	-01	-01	-01	-02
Price of Kit	0-12.25	0-14.5	-17	-34
13/16" sq. x 1$\frac{7}{8}$" Kit (using 6mm cores)				
Former 5007/6E (.3" dia)	-05	-06	-07	-14
Cores H6x1x12.7/500 DSL (two)	-02.5	-03	-04	-08
Can TV18	-05	-06	-07	-14
Mounting Screws	-01	-01	-01	-02
Price of Kit	-13.5	-16	-19	-38
13/16"sq. x 2$\frac{3}{8}$" Kit (using 6mm cores)				
Former 5000B/6E (.3" dia)	-05	-06	-07	-14
Cores H6x1x12.7/500 DSL (two)	-02.5	-03	-04	-08
Can TV1	-05	-06	-07	-14
Mounting Screws	-01	-01	-01	-02
Price of Kit	-13.5	-16	-19	-38
10mm sq.x13mm Kit (IF & BC freq)	-15	-20	-26	-52
10mm sq.x13mm Kit (High freq.)	-17	-21	-27	-54
13/16"sq. x 1$\frac{3}{8}$" Cup Kit (using iron core cup and 6mm cores)				
Former 5000A/6E (.3" dia)	-05	-06	-07	-14
Cup T18	-05	-06	-07	-14
Core H6x1x12.7/500DSL	-01.25	-01.5	-02	-04
Can TV4	-05	-06	-07	-14
Fibre washer $\frac{1}{2}$"x5/16"x1/32" and mounting screws	-01.25	-01.5	-02	-04
Price of Kit	-17.50	-21	-25	-50
Unshielded Pot $\frac{7}{8}$" dia. x $\frac{5}{8}$" Assembly				
Former 5000A/6E (.3" dia)	-05	-06	-07	-14
Pots (two) T6 Ref. 500	-06	-08	-10	-20
Bobbin Polystyrene 3-sect.T42	-03	-04	-05	-10
Core H6x1x12.7/500 DSL	-01.25	-01.5	-02	-04
Bakelite Screw 199/1	-03	-04	-05	-10
Two fibre washers $\frac{1}{2}$x5/16x1/32 and mounting screws	-01.25	-01.5	-02	-04
Price of Kit	-19.50	-25	-31	-62
Bell Type TV204 Assembly $\frac{3}{4}$"sq. x 1$\frac{1}{2}$"				
Comprising: Former, can, base & lugs, one core.	-13.5	-16	-19	-38

SALES TAX APPLICABLE ON QUANTITY PRICES
(TAKEN AT 10+ VALUE)

DETAIL	QUANTITY PRICES 100+ $ c.	10+ $ c.	2+ $ c..	RETAIL $ c.
654 Poly or Bakelite (.3" dia) with bollards	-06	-08	-10	-20
Core 6x.75x12.7 ref. 500 or 900	-02.5	-03	-04	-08
Ring Tag 4LT/IFU	-02.5	-03	-04	-08
Complete Former with i/c and ring tag	-11	-14	-18	-36
655 Bakelite (.276" dia with radial base connections	-06	-08	-10	-20
Core H6x1x12.7/500	-01.25	-01.5	-02	-04
Complete former and core	-07.25	-09.5	-12	-24
666 Bakelite (.3" dia) radial end connections	-06	-08	-10	-20
Core H6x1x12.7/500 DSL	-01.25	-01.5	-02	-04
Complete former and core	-07.25	-09.5	-12	-24
450 Nylon (.415" dia) with mounting base	-04	-05	-07	-14
Core 8x1.25x17/500	-03	-04	-05	-10
Ring Tag 4LT/2	-05	-06	-07	-14
Complete former,core & ring tag	-12	-15	-19	-38
PIGTAIL FORMERS				
Phenolic $\frac{1}{4}$" dia.x $1\frac{1}{4}$"	-06	-08	-10	-20
Bakelite 7/32 dia.x $\frac{2}{4}$"	-03	-04	-05	-10
Bakelite 7/32 dia.x $\frac{3}{4}$" with slot	-03	-04	-05	-10
Bakelite 5/32 dia.x 25/64	-03	-04	-05	-10
Iron Core 1/5 dia.x $\frac{5}{8}$" ref.500	-03	-04	-05	-10
Iron Core $\frac{1}{8}$" dia.x $\frac{1}{2}$" ref.500	-03	-04	-05	-10
Ferrite 7/32 dia. x $\frac{3}{8}$" ref.F14	-05	-06	-07	-14
Ferrite 7/32 dia. x 1" ref.F14	-05	-06	-07	-14
FERRITE RODS.				
$\frac{3}{8}$" dia. x 8" Ref. F14	-40	-48	-60	1-20
$\frac{5}{8}$" dia. x 8" Ref. F14	-30	-36	-45	-90
Slab ferrites approx. 5/32"x 13/32"x 35/32"				
MISCELLANEOUS				
Top Plate 5001/4E or 6E (for formers 5000A, 5000B or 5007)	-05	-06	-07	-14
CANS NOT DETAILED ELSEWHERE				
Type P6E $1\frac{3}{8}$" sq x $1\frac{1}{2}$" (coil)	-10	-12	-15	-30
Type P6E $1\frac{3}{8}$" sq x $2\frac{1}{8}$" (IF)	-10	-12	-15	-30
Type P6B $1\frac{3}{8}$" sq x 3" (IF for capacity tuned)	-10	-12	-15	-30

CORE MATERIAL GRADES (NEOSID)

Ref 500 - iron cores to 10m/Hz
Ref 900 - iron cores to 60m/Hz
Ref 901 - iron cores to100m/Hz

Ref F29 Ferrite 10m/Hz to 300m/Hz
Ref F14 Ferrite up to 5m/Hz

SALES TAX APPLICABLE ON QUANTITY PRICES (TAKEN AT 10+ VALUE)

INDUCTANCE SPECIALISTS TRANSISTOR COILS IN 10MM & 7MM CANS
*Unless Tracking Oscillator Section is employed

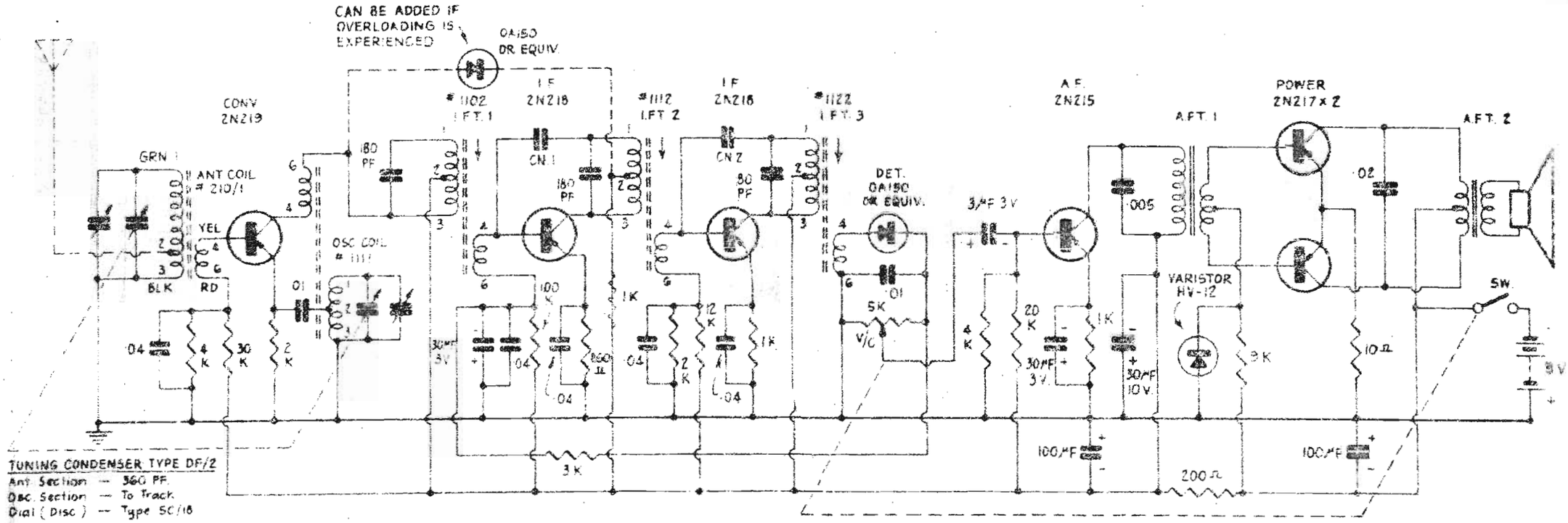
Type No.	Color	Purpose	Size	L uH	L set uH	Tuning Cap. Pfd	Padder Value Pfd*	Notes
210/1		Rod Aer	$\frac{3}{8}$diax8	250/500	187	440		
290		Rod Aer	$\frac{3}{8}$diax8	300/600	460	180		
1100	Yellow	Aerial	10m/m	250/500	460	180		
1110	Yellow	Aerial	10m/m	150/300	187	440		
1200	Yellow	Aerial	7m/m	200/500	460	180		
1210	Yellow	Aerial	7m/m	150/300	187	440		
1220	Yellow	Aerial	10m/m	17/23	19	440		Shipping band 1.7 to 5m/Hz.
1105	Red	R.F.	10m/m	250/500	460	180		
1115	Red	R.F.	10m/m	150/300	187	440		
1205	Red	R.F.	7m/m	200/500	460	180		
1215	Red	R.F.	7m/m	150/300	187	440		
1225	Red	R.F.	10m/m	17/23	19	440		Shipping band 1.7 to 5m/Hz.
1235	Red	R.F.	10m/m	600/1200	1100	440		Beacon band 200 to 400 k/Hz
1101	Green	Osc	10m/m	200/400	224	180	250	
1111	Green	Osc.	10m/m	100/200	104	440	500	
1201	Green	Osc.	7m/m	200/400	224	180	250	
1211	Green	Osc.	7m/m	100/200	104	440	500	
1221	Green	Osc.	10m/m	15/20	17	440	1416	Shipping band 1.7 to 5m/Hz
1231	Green	Osc.	10m/m	200/400	335	440	300	Beacon band 200 to 400k/Hz
(1102	Brown	1st IFT	10m/m	400/900	600	200	)	455k/c matched
(1112	White	2nd IFT	10m/m	"	"	"	)	" kit
(1122	Nat.	3rd IFT	10m/m	"	"	"	)	" "
(1132	Pink	1st IFT	10m/m	"	"	"	)	455k/c
(1142	Blue	1st IFT	10m/m	"	"	"	)	matched pair
1152	White	2nd IFT	10m/m	"	"	"		455k/c
(1162	Brown	1st&2nd IF	10m/m	"	"	"	)	455k/c used as
(1172	Nat.	3rd IFT	10m/m	"	"	"	)	1st&2nd kit
(1202	Brown	1st IFT	7m/m	"	"	185	)	455k/c matched
(1212	White	2nd IFT	7m/m	"	"	"	)	kit
(1222	Nat.	3rd IFT	7m/m	"	"	"	)	
1232	Brown	IFT	10m/m	3.7/5	4.2	50‡		10.7m/Hz
1242	Brown	IFT	10m/m	19/30	24.5	50‡		4.5m/Hz

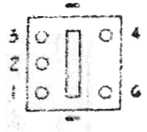
‡ Not supplied with transformer; fit externally

NOTE:
A comprehensive range of variable inductors in 10m/m square cans up to 250mH is available.

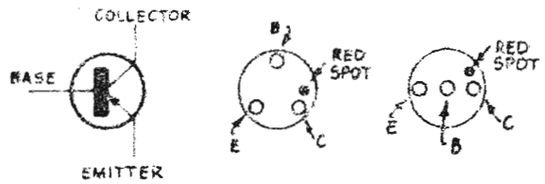
INDUCTANCE SPECIALISTS

A RECOMMENDED 6 TRANSISTOR CIRCUIT WITH SINGLE PRE-SELECTOR STAGE USING OUR 10 M/M SQUARE COILS





COIL BASE CONNECTIONS
(VIEWED FROM UNDERNEATH)



TRANSISTOR CONNECTIONS

IMPEDANCE

		PRI.		SEC
A.F.T.	1	8K	—	1.5K (C.T.)
	2	800Ω (C.T.)	—	8Ω

CN 1, CN 2 = NEUTRALIZING CAPACITORS
VALUE IS DETERMINED EXPERIMENTALLY.
APPROXIMATELY CN 1 = 3 PF ; CN 2 = 3 PF

HIGH VALUE, LOW CURRENT INDUCTORS
FERRO-ENCLOSED, SIZE ½" DIAMETER x 1" WITH 1" LEADS.
"Z" SERIES

* Preferred Types ··· 10H 10% 3K ohms ··· normally in stock

"L" in Henries	DC Res. ohms	Wire size m/m	QUANTITY PRICE 50+	10+	1+	
* 0.5	180	.07	-70	1-00	1-50	
* 1.0	280	.07	-90	1-20	1-80	
* 2.0	400	.07	1-00	1-30	1-95	
* 3.0	1450	.04	1-20	1-50	2-25	
* 4.0	1600	.04	1-30	1-60	2-40	
* 5.0	2000	.04	1-40	1-70	2-55	
6.0	2100	.04	1-50	1-80	2-70	
7.0	2200	.04	1-60	1-90	2-85	
8.0	2500	.04	1-70	2-00	3-00	
9.0	2750	.04	1-80	2-10	3-15	
*10.0	3000	.04	1-90	2-20	3-30	
20.0	1600	.04	2-40	2-70	4-05	"Y" Series Inductors supplied in 19mm EI Laminations.

NOTE PRICE INCREASE + 20%
From 1st August please correct your price lists accordingly.

INDUCTANCE SPECIALISTS LTD

1277 CAMERON ROAD SOUTH
GREERTON TAURANGA

P.O. BOX 3018,
TELEPHONE 88069

PRICE LIST
10/7/67

TYPE NO: (Sect. 2)	RETAIL CAT A
C1042 Polar	2.08
C1043 Polar	3.10
C9002/2 Polar	2.72
C9003/2 Polar	3.64
K/2 Plessey	2.13
K/3 Plessey	2.93
3-gang miniature 200pfd	2.69
2-gang " 200pfd	
2-gang personal portable 200pfd	
DF/2	2.61
Fixed Padders	
500 2%	.14
395 2%	.14
1416 2%	.34
1565 2%	.34
4500 2%	.37
Variable Padders	
600 TP11D	.33
Trimming Condens:	
4/70	.13
5/50 Mica Ceramic	.13
2/20 Ceramic Tub.	.21
Filter Condensers (to BSS 613) Delta connected	
SPM 202 Dub:1x.1 2.005	.72
Seimans 1x.1 2x.C	.51
TCC 1x.01 2x.005	-
Lemco Ceramic 4.5KV .01 or .005	.13
Dial Movements (S	
*D/4	3.10
*D/5	3.17
*D/5Mk1	5.21
*D/6/2	5.70
*D/6/3	6.84
*D/8	5.70
Dial Scales (Sect.	
*SC/1	1.17
*SC/2	1.08
*SC/5	1.17
*SC/10	1.08
*SC/11	.84
*SC/12	1.75
*SC/13	1.75
*SC/14	2.02
*SC/15	2.83
*SC/16	1.08
*SC/17	2.02
*SC/18	1.42
*SC/19	1.42

TYPE NO: (Sect.4 cont'd)	RETAIL CAT A
*SC/20	1.42
*SC/22	.12
*SC/23	.12
Escutcheons	
*P57 (for D/5)	.68
Aerial Coils (S	
10	1.12
P10	1.01
20	.90
30	.66
P30	.66
40	.76
50	.59
60A	.51
P60A	.59
70A	.51
P70A	.59
80	1.18
90	1.01
140	1.01
150	.80
160	.98
190	1.01
200	1.01
210/A/B(Inc coi rod & h/ware)	1.18
210/1 (coil onl not rod)	1.01
240	1.01
250	1.52
260A	1.66
270A	1.66
290 (coil only)	1.01
1100	.90
1110	.90
R.F. Coils (Sec	
15	1.12
P15	1.04
25	.90
35	.68
P35	.68
45	.79
55	.58
65A	.51
P65A	.59
75A	.58
P75A	.59
115	1.12
135B	1.66
155	1.12
1105	.90
1115	.90

TYPE	RETAIL CAT A
Osc or Coil (Sect.7)	
11	.90
P	1.01
21	.90
31	.58
41	.75
51	.59
P51	.65
61A	.58
P61A	.59
71A	.58
P71A	.59
81B	.59
91	.58
111	.90
131	.90
141	1.43
151	1.66
161	1.66
171	1.66
181B	2.23
191	1.01
1101	.90
1111	.90
I.F. Transformers (Sect.8)	
12	1.66
22	1.66
32	1.01
72	1.01
82	2.23
92	1.43
102	1.54
112	1.50
122	1.50
132	1.12
142	1.43
152	1.40
162	1.50
172	1.49
182	1.43
192	1.66
292	1.66
202	1.43
212	1.50
222	1.43
232	1.43
262	1.50
272	1.50
282	1.50
302	1.50
302 with centre tap	1.94
312	1.40
1102) 1112) 1122) 1132) 1142) 1152)	.90

TYPE NO.	DEALER CAT A
High Frequency Chokes (Sect.9)	
13	.42
23 1.0mH	.42
33 2.5mH	1.35
43 4.0mH	1.14
53 1.0mH	1.43
73 1.3mH	.48
83 10.0mH	1.52
133 45mH	1.35
143	2.23
153	1.43
233	1.35
313	.42
1mH to 2.5mH	.38
TV Peaking Chokes up to 200uH	.42
RF Chokes on iron core pigtail formers 200uH - 2.5mH	.48
RF Chokes on iron core pigtail formers 2.5 - 10mH	
Coil Assemblies, BFO's Crystal Filters (Sect.10)	
*P24AZ	9.02
*P44AZ	16.51
*P74AZ	19.06
*P34AZ	14.83
*P84AZ	21.14
*P94AZ	25.75
184	1.68
194	1.68
204	1.50
214	1.50
224	1.52
234	1.85
TV Chokes (Sect.11)	
163 1-amp Uptd	.31
163/1 1-amp Ptd	.34
163/2 1-amp UptdFL	.47
173 2-amp Uptd	.31
173/1 2-amp Ptd	.34
173/2 3-amp Ptd FL	.47
183 3-amp Uptd	.31
183/1 3-amp Ptd	.34
183/2 3-amp Ptd FL	.49
193 4-amp Uptd	.33
193/1 4-amp Ptd	.37
193/2 4-amp Ptd FL	.49
203 5-amp Uptd	.34
203/1 5-amp Ptd	.38
203/2 5-amp Ptd FL	.49
213 8-amp Uptd	.42
213/1 8-amp Ptd	.47
213/2 8-amp Ptd FL	.56
223 10-amp	.58

Note: FL = flexible leads
Uptd = unprotected
Ptd = protected
Ptd FL = protected flexible leads

TYPE NO.	RETAIL CAT A.
Broadcast Filter Coils (Sect.11 cont'd)	
243 1-amp	1.24
253 3-amp	1.43
263 6-amp	1.60
273 10-amp	2.08
283 2-amp	1.24
Palmer Radio Suppressor Units	
244 1-amp	3.53
254 3-amp	4.09
264 6-amp	4.34
274 6-amp wall type	4.34
284 2-amp filter	3.53
294	
304 TV Aerial suppressor unit	.59
314 ribbon absorption traps	.45
Chassis, Blank Chassis & Steel Cabinets (Sect. 12.)	
*Punched Chassis	
*17	1.01
*27	1.01
*37	1.52
*47	3.14
*57	4.04
*67	3.53
*77	4.04
*97	.58
*pt 70	.58
*pt 71	.56
*37A Battery Box	.55
*47A Bracket	.37
*77A Bracket	.37

Standard Blanks In Aluminium Alloy

7x3x2)		.78
7x5x2)	20-gauge	.84
10x6x2)		1.07
11x5x2½)		1.40
14x5x2)	18-gauge	1.50
15x9x2½)		2.06

Cabinets, Chassis & Panels in steel

(examples for ordering)

Panel	9x6)	
Chassis	7x3x2)	3.50
Cabinet	9x3½x6)	
Panel	9x6)	
Chassis	7x5x2)	3.50
Cabinet	9x5½x6)	

NOTE: Prices of chassis blanks & cabinets may vary in accordance with ruling prices of steel and aluminium.

TYPE NO.	RETAIL CAT A.
Built Up Receivers & Suggested Kits (Sect. 13)	
Basic Kits	
*B/9 Mk3	36.29
*B/10 Mk3	47.63
*ECH 81	1.31
*EF 41	1.12
Packing for B/9 & B/10 .45c. Postage extra	
*B/14	10.71
*114AW	23.19
*ECH 83	1.39
*EF 97	1.31
TV Coils & Components Video & Audio Strips (Sect. 14.)	
IF Bobbins, Auto Aerial cable, Radio & TV Adjusting Tools, Coil Cement, Mis. Components (Sect.15	
455k/c bobbins	.68
175k/c bobbins	.82
Auto Aerial Cable.	
3-ft	1.26
4-ft	1.40
Radio & TV Adjusting Tools	
AT1 Hex one end, scr driver other	.24
AT2 Hex both ends	.30
AT3 15" long, Hex. both ends	.54
Polystyrene Coil Cement	
1-oa bottles	.34
1-quart tins	3.36
Switches	
*1-bank 2-pole 3-way	1.01
*1-bank 6-pole 2-way Plessey	.72
*2-bank 2-pole 3-way Plessey	1.22
*3-bank 2-pole 3-way Oak	3.28
*Our type B/9 S/1	3.28
TV Tuners	
*Standard	6.80
*Philips	6.80

TYPE NO	RETAIL CAT A.
Boys' Experimental coils (Sect 15 cont'd)	.25
*Dial Drums	
2¾" diameter	.41
4½" diameter	.51
Dial Pulleys & Rivets	.12
Dial springs	.07
*Dial Lamp Holders	.17
*D/5 Dial Shafts only without flywheel	1.02
*D/5 Dial Flywheel only	.82
*D/5 Pointer	.17

COIL FORMER PRICES IN QUANTITIES OF TEN

*Unshielded Formers with Core	
654P Polystyrene former with iron core 6x1x12.7 Ref.500	14.20
654B Bakelite former with I/core 6x1x12.7 Ref.500	14.20
655 " " 6x1x12.7 Ref. 500 core	14.20
666 " " " " "	14.20
450 Nylon former I/core 8x1x27.17 Ref.900	14.20
40 coil bakelite former with clip & core	2.10
722 bakelite former 2/core 4x5x12.7 Ref900	14.20
*Shielded formers with cores	
5000A/6E (1½") with can & one core 6x1x12.7 Ref.500 + mtg. screws	3.10
5007/4PL (1⅝") with can & 2 cores 6x1x12.7 Ref.500 " mtg screws	3.80
5000B/6E(1¾") " " "	4.10
TV204/B (Bell unit comprising: 1 former & Base & lugs: 1 core: 1 can	3.30
Pot & Cup Assemblies	
*D/10 Assembly (Pot comprises: 2 T/C pots 1 bobbin T42 1 former 5000A/6E & Mtg.screws 1 can TV1 1 core 6x1x12.7 Ref. 500 2 fibre washers ½x5/16x1/32.	5.10
*Type T18A Assembly (cup) comprises: 1 T18 Cup 1 can TV1 1 former 5000A/6E & mtg screws 1 core 6x1x12.7 Ref.500 1 fibre washer ½x5/16x1/32	4.10
*IRC Former)Phenolic ¼" dia. x 1¼" with pigtails	1.20
Pigtail Formers	
*Y former (Morganite) size 7/32 diax¾" Bakelite	.70
*YI former (Morganite) with slot size 7/32" dia. x ¾" bakelite	.70
*S former (Morganite size 5/32 dia.x25/64 Bakelite	.70
*CH1/6 former (Neosid) size 1/5"dia x ⅙" I/core	.70
*CH7/1 former (Neosid) size ⅛" dia x ½" I/core	.70

TYPE NO	CAT A RETAIL
*Ferrite Rods	(In quantities of ten)
$\frac{3}{8}$" dia. x 8" F14 Neosid	11.10
$\frac{5}{8}$" dia. x 8"	
*Top Plates & Ring Tags	
*4LT/IFV (Neosid) for formers 654 P&B	1.60
*4LT/2 (Neosid) for formers type 450	1.20
*5027/4PLD (Neosid) for formers type 722/4	.50
*5001 (Neosid) top plate	.60
Threaded Cores	
* type 6x1x12.7 Ref. 500 Hex	.70
6x1x12.7 Ref. 500 slotted	.70
6x1x12.7 Ref. 900 Hex	.70
6x1x12.7 Ref. 900 slotted	.70
6x1x12.7 Ref. F14 slotted	.70
6x.75x12.7 Ref.500 slotted	.70
6x.75x12.7 Ref. 901 slotted	.70
6x.75x12.7 Ref. 900 slotted	.70
4x.5x12.7 Ref. 900 slotted	.70
8x1.27x17 Ref. 900 slotted	.70
8x1.27x17 Ref. 500 slotted	.70

Colour Code: Ref. 500 = natural, Ref.900 = Mauve, Ref. 901 = yellow

COIL FORMER PRICES ONLY (of items normally sold shielded and with cores and hardware)

*5000A/6E $\frac{1}{2}$" former only (no can or core)	1.42
*5000B/6E 1$\frac{3}{4}$" " " " " " "	1.42
*500 /4PL 1$\frac{5}{8}$" " " " " " "	1.42
*CANS	
*1$\frac{2}{8}$" sq. x 1$\frac{1}{2}$" Alum (Qtype P6C) Coil	2.00
*1$\frac{2}{8}$" sq. x 2$\frac{1}{8}$" Alum (Qtype P6E) I.F.	2.10
*1$\frac{3}{8}$" sq. x 3" Alum (Qtype P6B) I.F. (Mica)	2.10
*13/16" sq. x 1$\frac{1}{2}$" Alum (type D/TV2)	1.30
*13/16" sq. x 1$\frac{5}{8}$" Alum (type DV18)	1.30
*13/16" sq. x 1$\frac{3}{4}$" Alum (type DTVI)	1.30

ADDITIONS

Broadcast filter Coils	
303 (850uH, 500mA, B/C suppression chokes)	.48
323 (1mH " " " ")	.51

INDUCTANCE SPECIALISTS LTD

(METAL PRODUCTS)

1277 CAMERON RD. SOUTH
GREERTON, TAURANGA

P.O. BOX 3018
PHONE:88069

PRICE LIST

ITEM	In Fives	In Threes	Retail
19" Tool box	4.75	5.00	7.00
11" Tool box	2.00	2.15	2.80
Nut & Bolt Box	2.75	2.95	3.85
Mini-drawer units (4-drawer)	2.00	2.15	2.80
Engineers tray 14x10x2	1.20	1.18	1.55
Metal box with clasp & metal handle (simple box)	1.35	1.45	1.90
Lunch box	3.85	4.15	5.40
Letter box	2.95	3.18	4.13
Letter box stand "B"	3.75	4.03	5.25
Letter box stand "A"	4.50	4.84	6.30
Milk bottle holder 4-hole	.56	.60	.78
6-hole	.63	.67	.88
Cash box with 5-sect. insert	2.72	2.94	3.83
Office 4-tier letter tray	2.80	3.02	3.93
"Smoko" fish smoker (standard)			7.93
"Smoko" (double-decker)			
1000-watt heater		4.43	6.00
Display stands single-sided	.55		
double sided	.70		
Name stands single-sided	.45		
Double sided	.45		

INDUCTANCE SPECIALISTS LTD

1277 CAMERON ROAD SOUTH, GREERTON, TAURANGA, NEW ZEALAND

TRANSISTOR COILS 10M/M SQUARE

SECTION 1.

Intermediate Frequency Channels 455k/c

(a) 1 x 1st I.F. Transformer Type 1102 Colour Brown
1 x 2nd I.F. Transformer Type 1112 Colour White
1 x 3rd I.F. Transformer Type 1122 Colour Natural (diode)

With Double Tuned 1st Stage I.F. Transformers

(b) 1 x 1st I.F. Transformer Type 1132 Colour Pink) Matched
1 x 1st I.F. Transformer Type 1142 Colour Blue) Pair
1 x 2nd I.F. Transformer Type 1112 Colour White
1 x 3rd I.F. Transformer Type 1122 Colour Natural (diode)

SECTION 2. SIGNAL AND OSCILLATOR SECTIONS

Tuning Condenser 200pfd + 90pfd.

(a) 1 x Ferrite Rod $\frac{3}{8}$" dia. x 8"
1 x Ferrite Rod Aerial coil . . . . Type 290
1 x Oscillator (455k/c) . . . . . Type 1101 Colour Green

NOTE: 1. If a 10m/m square aerial coil is required in place of the rod, use type 1100. Colour Yellow.

2. If an R.F. stage is required, use R.F. Coil type 1105, Colour Red, with 3-section tuning condenser of 200pfd.+200pfd.+90pfd. (osc)

3. If all sections of the tuning condenser are 200pfd use a padder, value 250pfd 2%

Tuning Condensers 360 to 440 pfd.

(b) Aerial Type 1110 Colour Yellow
R.F. Type 1115 Colour Red
OSC. Type 1111 Colour Green

NOTE: 1. If a $\frac{3}{8}$" dia.x 8" ferrite rod is required in place of aerial coil type 1110, use type 210/1 coil

2. For tuning condensers with all sections of equal capacity (no tracking section) use oscillator padders of the following values:-
360pfd. tuning condenser use 395pfd 2%
440pfd. tuning condenser use 500pfd 2%

3. Our DF/2, two gang (360pfd) requires no padder.

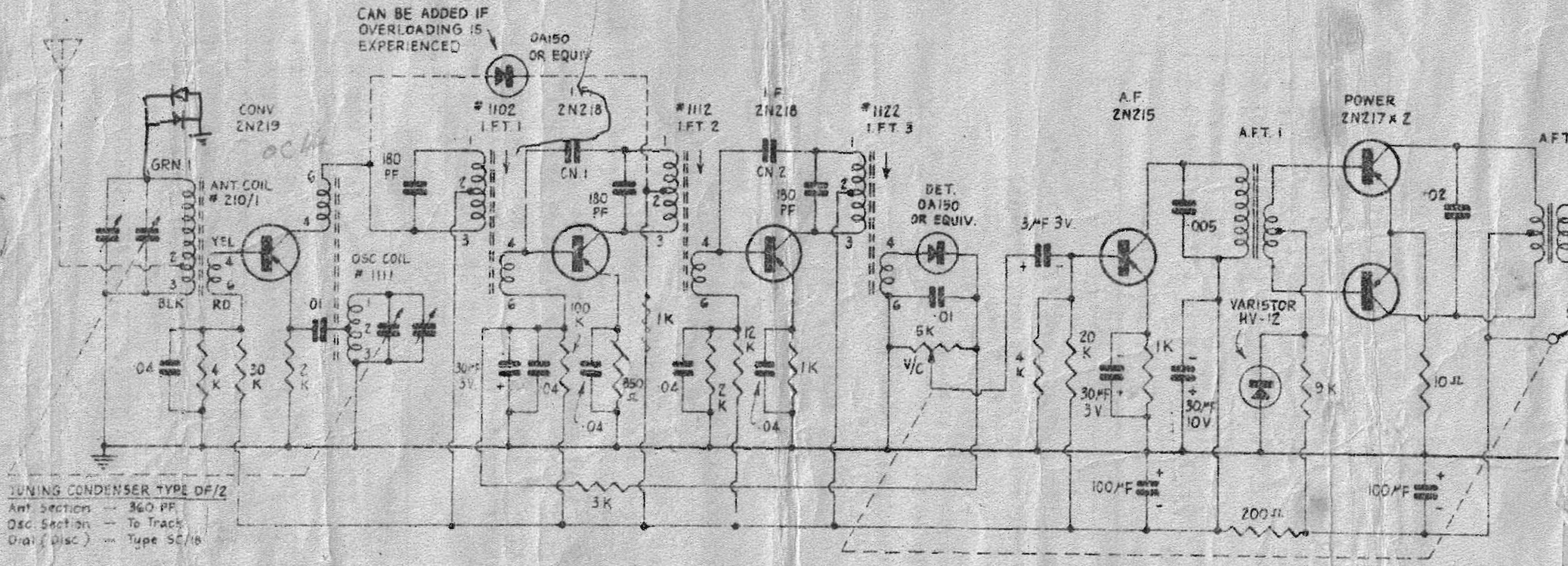
SECTION 3. A RECOMMENDED 10M/M SQUARE COIL KIT FOR OUR SUGGESTED 6-TRANSISTOR CIRCUIT WITH SINGLE PRE-SELECTOR STAGE.

1 x Tuning condenser type Df/2 (360pfd. with Osc. tracking & Vernier drive)
1 x Circular dial scale type SC/18
1 x Aerial ferrite rod $\frac{3}{8}$" dia. x 8"
1 x Aerial Rod coil type 210/1
1 x Osc. (455k/c) coil type 1111 Colour Green
1 x 1st stage I.F. Trans. type 1102 Colour Brown
1 x 2nd stage I.F. Trans. type 1112 Colour White
1 x 3rd stage I.F. Trans. type 1122 Colour Natural (diode)

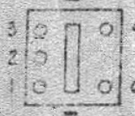
NOTE: This leaflet should be read in conjunction with our recommended circuits and sections 1 to 8 and 13 & 16 of our catalogue No. 8.

INDUCTANCE SPECIALISTS

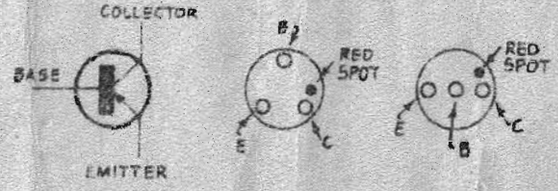
A RECOMMENDED 6 TRANSISTOR CIRCUIT WITH SINGLE PRE-SELECTOR STAGE USING OUR 10 M/M SQUARE COILS



TUNING CONDENSER TYPE DF/2
Ant. Section — 360 PF
Osc. Section — To Track
Dial (Disc) — Type SC/18



COIL BASE CONNECTIONS
(VIEWED FROM UNDERNEATH)



TRANSISTOR CONNECTIONS

IMPEDANCE

		PRI		SEC.
A.F.T.	1.	8 K	–	1.5 K (C.T.)
	2.	800 Ω (C.T.)	–	8 Ω

CN. 1, CN. 2 = NEUTRALIZING CAPACITORS
VALUE IS DETERMINED EXPERIMENTALLY.
APPROXIMATELY: CN. 1 = 3 PF; CN. 2 = 3 PF