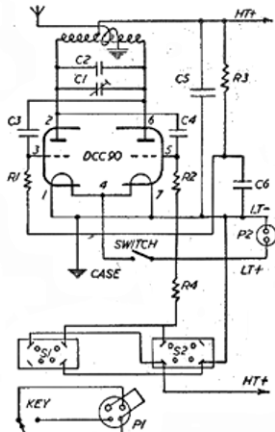
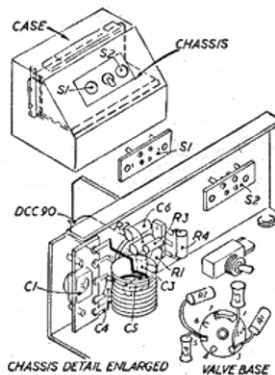


E-D Mark II

This is a dual purpose transmitter, capable of transmitting either a normal carrier signal (switched on and off for conventional single channel control); or carrier on switching on or off a modulated tone. The type of circuit



gives a rather crude form of modulation in which it is difficult to control the energy content of the pulses, but this is probably quite acceptable for the type of operation this transmitter is intended. Alternative operation is provided simply by plugging the keying lead (P1) into either S1 or S2. All connections to plugs and sockets are drawn on the circuit diagram viewed from the soldering side. A DCC 90 valve is employed.

Battery requirements are 120 volts H/T and 1.5 volts L/T, these batteries

being accommodated in the metal case, although efficient operation is maintained down to 100 volts H/T. A 4 ft. aerial is standard, plugging on to an aluminium tube mount fitted to the side of the case.

A point to watch is that with the transmitter switch off and the keying lead plugged in a small H/T current can still flow through the circuit. When not in use, therefore, the keying lead also should be withdrawn, although this is not necessary between normal periods of operation.

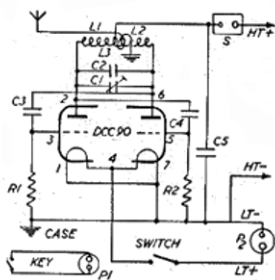
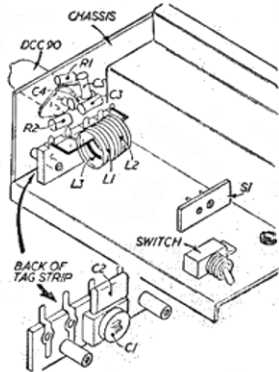
Component values:—

- R1—10 kilohms.
- R2—10 kilohms.
- R3—180 kilohms.
- R4—4.7 kilohms.
- C1—variable trimmer.
- C2—not identified.
- C3—50 μ F.
- C4—50 μ F.
- C5—not identified.
- C6—0.1 μ F.

E-D Mark III

This is a carrier only transmitter for normal single channel operation, based on a DCC 90 valve. In the accompanying circuit diagram all connections to plugs and sockets are as viewed from the soldering side. P1, on the end of the keying lead, plugs into socket "S." The earth connection is made to the case.

The transmitter is mounted on an aluminium chassis, fixed inside a $9\frac{1}{2} \times 7\frac{1}{2} \times 7$ in. rectangular aluminium outer case, the remaining space being for accommodation of the batteries. An aerial mount is fitted to the side of the case to take an aluminium tube (sectioned) aerial of 4 ft. or 8 ft. length, as required. A carrying strap is fitted to the top of the case. Construction of the transmitter is conventional, with the coils L1, L2 and L3 wound from 16 s.w.g. enamelled wire, unsupported by a former. It is important, therefore, that these coils are not displaced mechanically by handling.



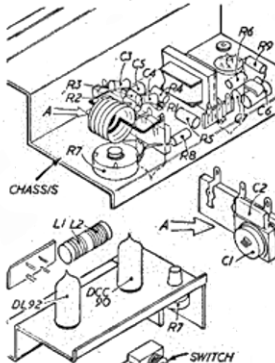
Battery requirements are 120 volts H/T and 1.5 volts L/T.

Component values:—

- R1—10 kilohms.
- R2—10 kilohms.
- C1—variable trimmer.
- C2—10 μ F.
- C3—50 μ F.
- C4—50 μ F.
- C5—not identified.

E-D Mark IV

This unit incorporates a twin triode (DCC 90) and a pentode (DL 92) in a modulated carrier circuit. In the normal condition, switched on, a carrier wave is transmitted. One of three modulated tones can then be superimposed, as required, but only one at a time. Each tone is independently adjustable via



wing with his combat models, decided to build a flying wing in micro-film and it flew; quite well! (so well indeed he broke the indoor record at the Manchester meeting).

Some people who haven't been bitten by the micro-film bug are continuing to play with "old fashioned" team racers and combat jobs. The new Norman Long engine the "Viper" is being used by some of the team racer enthusiasts. Combat models are still being built and pranged with remarkable rapidity; it always seems that the oldest models survive.

CROYDON & D.M.A.C.

Our annual gals is to be held at Chobham Common on September 8th. The usual classes of unlimited power, rubber and glider (both tow and throw) also include slope soaring which in previous years has attracted a very large entry since almost any type of model can be used. Flight maximum for this class only is 1 min. and last year three maximums and a fly-off of over four min. were needed to win this event. As in previous years Croydon members will not be competing.

NORTH LINGS M.A.C.

Special features of our second exhibition included a compressed-air model built by a World War I ace, Flt. Lt. A. W. (who shot down 17 E.A. in his Nieuport) believed to have been flown in 1911, and still in working order. Nationals winner in radio, John Nixon had his model and both the radio trophies on show. A Motor Aircraft Max Holste Brouard was operated round the pole by designer E. Fearnley, the A.M.25 substituted by a Mills .75 fitted with silencers and an oil pump to reduce mess and noise. An electrically-operated half-speed device was fitted to it by E. Cartwright. On the last day this model was removed and the Colonial Skimmer substituted, when it almost broke through the sound barrier (in more ways than one!).

Special displays were put on by the R.A.P. recruiting centre, B.O.A.C. through the local travel agency, and Mason Bros., the local model shop, the proprietor nearly killing himself in his efforts to assist the club. (Yes, we know how lucky we are!)

Best in show winner of the HAW trophy was Roland Craggs with a radio control delta (one of 15 radio models on show!). Best junior was J. Clements with a pylon job. This won him the Fearnley trophy! 1st? A new member, Mr. Gosling from Leamington won glider. Tony West solids, and E. Fearnley scale, Alan Ely, control line, Bill Brown sport section.

The club membership is now 70 plus, and meetings are held at our full time club room every Thursday, address 149, Wetholme Road, Grimby. Everyone welcome.

CHANGE OF ADDRESS

HUDDERSFIELD D.M.A.C., A. Bradley, 32, Roundway, Hanley, Huddersfield.

NEW CLUBS

583 SODN., A.T.C. AEROMODELLING CLUB, C. Claxton, 4, Concrete Houses, Pill, Milford Haven, Pembrokeshire.
STRATFORD-ON-AVON M.A.C. S. Richardson, 4, Kendall Avenue, Stratford-on-Avon.

CHANGE OF SECRETARYSHIP

SUNDERLAND M.A.C. R. Hepple, 4, Romney Avenue, Sunderland, Co. Durham.

PEN PALS WANTED

For 17-year-old Canadian, Alec Stenson, A3, St. Josephs Buildings, Robinson Road, Hong Kong, who is mainly interested in C/L and solid scale models.
And for Czech enthusiast Pavel Janiželka, V. Surdil, Prague 2, Czechoslovakia, who would like to correspond, in English, with a youngster on aircraft subjects in general.

EXCHANGE OF MAGAZINES

We have two requests from Czech enthusiasts who would like to exchange modelling magazines with someone in this country. If you want to find out what's going on in Eastern Europe, then get in touch with either George Kubicek, 690, Gottwaldova Street, Roudnice, n.l., Czechoslovakia, or Milan Vydra, Vratislavova 28, Prague, Czechoslovakia.

CONTEST RESULTS

INDOOR MEETING, MANCHESTER

MICRO FILM UNDER 100 sq. in.

1. R. Monks .. Birmingham .. 13 : 53	7. M. Grimmett .. West Brom. .. 7 : 13
2. J. O'Donnell .. Whitefield .. 12 : 38	8. G. Walker .. Birmingham .. 7 : 04
3. P. Read .. Birmingham .. 11 : 16	9. J. Hartley .. Wolves .. 6 : 12
4. D. Poole .. Birmingham .. 10 : 46	10. T. Tittle .. Birmingham .. 6 : 09
5. A. King .. Australia .. 8 : 21	11. A. Spurr .. Middlesbro' .. 5 : 42
6. R. Parham .. Worcester .. 8 : 09	12. T. Chambers .. Stockton .. 1 : 12

MICRO FILM OVER 100 sq. in.

1. J. O'Donnell .. Whitefield .. 11 : 50
2. R. Copland .. Northern Heights 11 : 46
3. P. Read .. Birmingham .. 9 : 42
4. R. Monks .. Birmingham .. 9 : 04
5. D. Poole .. Birmingham .. 8 : 24

CHUCK GLIDER Maximum Weight 1 oz.

1. J. H. Dixon .. Unattached .. 30	7. T. Tittle .. Birmingham .. 0 : 17
2. J. O'Donnell .. Whitefield .. 0 : 27	8. M. Grimmett .. West Brom. .. 0 : 18
3. R. Monks .. Birmingham .. 0 : 26	9. D. Morley .. Lincoln .. 0 : 14
4. H. O'Donnell .. Whitefield .. 0 : 22	10. B. Jukes .. West Brom. .. 0 : 15
5. J. Hartley .. Birmingham .. 0 : 18	11. A. W. .. Whitefield .. 0 : 07
6. M. Watson .. Whitefield .. 0 : 19	12. E. Lord .. Accrington .. 0 : 03

S.M.A.E. CUP. A.2 ELIMINATOR

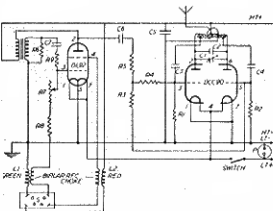
1. V. Jays .. Surbiton .. 13 : 15	7. T. T. Crossley .. Blackheath .. 12 : 23
2. G. Tidswell .. Baldon .. 13 : 07	8. B. Rowe .. St. Albans .. 12 : 22
3. K. Oliver .. Foresters .. 13 : 01	9. J. Cartwright .. Hull Peg. .. 12 : 22
4. G. Cameron .. Baldon .. 12 : 49	10. R. Burwood .. Surbiton .. 12 : 00
5. G. LeFevre .. Essex .. 12 : 48	11. L. Burrows .. Blackheath .. 11 : 49
6. B. Dowling .. Wayfairs .. 12 : 29	12. D. Greaves .. Leamington .. 11 : 45

GAMAGE CUP

1. E. A. Barnacle .. Leamington .. 7.39	1. Coventry .. 37 : 04
2. E. E. Wiggins .. Leamington .. 6.54	2. Baldon .. 35 : 56
3. R. Lennox .. Birmingham .. 6.45	3. Whitefield .. 30 : 57
4. T. B. Chambers .. Stockton .. 6.06	4. Surbiton .. 28 : 21
5. J. O'Donnell .. Whitefield .. 6.03	5. Walsall .. 26 : 40
6. L. E. Moore .. Leamington .. 5.57	6. Birmingham .. 25 : 56
7. D. Greaves .. Leamington .. 5.57J	7. Thameside .. 25 : 44
8. S. Taylor .. C/M .. 5.46J	8. Ashton .. 25 : 02
9. P. Morley .. Lincoln .. 5.31J	9. Hemmings R.A.F. .. 22 : 16
10. A.W.F. Alexander .. Cowley .. 5.26	10. Lough College .. 21 : 44
11. P. Giggie .. Southampton .. 5.09	11. Wigan .. 19 : 00
12. J. Punter .. Cowley .. 4.45J	12. Novocastria .. 18 : 09

Transmitters—(Continued)

box circuit plugs into socket S on the transmitter. A quarter wave aerial is standard for the transmitter, fitting on to a standard E-D type mount on the side of the case. Size of the case is approximately $10 \times 8\frac{1}{2} \times 7\frac{1}{2}$ in. and total weight (with batteries) $11\frac{1}{2}$ lb.



The control box is $6 \times 5 \times 2\frac{1}{2}$ in. and weighs $1\frac{1}{2}$ lb.

Battery requirements: H/T 120 volts. L/T 1.5 volts.

Component values:

- R1—10 kilohms.
- R2—10 kilohms.
- R3—10 kilohms.
- R4—10 kilohms.
- R5—10 kilohms.
- R6—12 kilohms.
- R7—100 kilohms (variable).
- R8—10 kilohms.
- R9—10 kilohms.
- R10—
- R11—
- R12—
- C1—variable trimmer.
- C2—10 μF.
- C3—50 μF.
- C4—50 μF.
- C5—not identified.
- C6—not identified.
- C7—not identified.

