

**EQUIPMENT FOR RADIO INTERFERENCE INVESTIGATION OFFICERS**

**1. General.**—This Instruction deals with the equipment and tools that are available to staff engaged on radio interference investigation duties.

**2.** The recommended distribution of the various items is given in the following tables:—

*Table 1.* Receivers, interference measuring equipment, etc.

*Table 2.* Tools and small stores.

**3.** Each Technical Officer should have his own Tool and Plant Record A 1112 which should show all items of equipment, testing apparatus and tools, but not consumable stores, issued to him. Normally a Technician IIA assistant will use certain tools, equipment, etc. issued to the Technical Officer with whom he is working, but he should also have a personal issue of the more commonly used tools and these should be recorded in his own A 1112. The officer to whom tools and other items are issued is held entirely responsible for their safe custody and should report immediately the loss of any item under his charge without waiting for a plant or tool list check or a visit by a supervising officer.

**4.** Discrepancies and losses should be dealt with by the Assistant Engineer as instructed in STORES. Office Procedure, L 0011.

**5. Receivers, interference measuring equipment, etc.**—Certain items, because they are costly and the occasions for their use are infrequent, are issued on

a Regional basis. This does not necessarily mean that they must be held at R.D.s' offices. They should be held where they are most required. Arrangements to borrow these items may be made by telephone, but the transaction should in all cases be covered by the loan procedure given in STORES. Workmen's Procedure, G 0011. Other items which are required more frequently though not daily by any one officer are held in limited quantity at Area headquarters under the control of the Assistant Engineer, who will be responsible for their allocation to Investigation Officers in accordance with requirements. Borrowed equipment should be returned in good working order; if this is not possible a fault label (A 286) should be attached to it giving details of any defect. A list of the various items referred to is given in Table 1.

**6.** All receivers, measuring equipment, etc. should be maintained in efficient working order so that they are ready for immediate use when required. Accumulators should be kept charged and dry batteries should be marked with the date of their receipt from the Supplies Dept., those with the earliest date being used first. At least one valve of each type used in the equipment should be held as a spare.

**7. Tools and small stores.**—The tools, etc. listed in Table 2 should be sufficient to enable an Investigation Officer and his assistant to tackle most jobs in the course of a normal day's work. If other tools are required for an exceptional job inquiry should first be made of the Section Stock storekeeper to see whether they can be had on loan.

TABLE 1. RECEIVERS, INTERFERENCE MEASURING EQUIPMENT, ETC.

Item	Scale of issue		
	Per Regional Hqrs.	Per Area	Per T.O.
Aerial No. 18 (for Receiver, Radio, No. 12)	—	—	1
Aerials, for demonstration purposes, of a design suitable for local conditions:—			
Long and medium wave	—	1	—
Band I television (B.B.C.)	—	1	—
Band II sound v.h.f. (f.m.)	—	1	—
Band III television (I.T.A.)	—	1	—
Cable, Coaxial, 60-80 ohms, yards	—	15	—
" Twin, Screened, yards	—	15	—
Communication Receivers:—			
Eddystone Receiver 680X (0.5 to 30 Mc/s)	1	1	—
" " 770R (19 to 165 Mc/s)	1 or 2	—	—
" " 770U (150 to 500 Mc/s)	1 or 2	—	—
Equipment, Radio, No. 3A, Pair	1	1	—

TABLE 1 (contd.)

Item	Scale of issue		
	Per Regional Hrs.	Per Area	Per T.O.
Frequency Meter BC 221 (or equivalent)	1	1	—
Generator, Noise, No. 3	—	—	1
Measuring Set, R.I., No. 1	2	—	—
"    "    "    "    2	1	—	—
Meters, Multi-range, No. 3	—	—	1
Ohmmeters No. 1	—	2	—
Oscillator No. 60A	—	—	1
Receiver, Radio, No. 11	—	—	1
"    "    "    12	—	—	1
"    "    "    24A	—	2	—
Television receiver	1	2 to 4	—
Wavemeter, 350 kc/s to 150 Mc/s	1	—	—

TABLE 2. TOOLS, SMALL STORES, ETC.

Item	Scale of issue	
	Per T.O.	Per Tech. IIA
Bags, Leather	1	1
Bits, Jumper, Nos. 8, 10, 12, 18	1	—
"    "    Ejector, No. 2	1	—
"    "    Holder, No. 14	1	—
Bits, Screw, $\frac{1}{4}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in.	1	—
Blades, Spring Back, 10 in. 24 teeth per inch, $\frac{1}{2}$ in. wide	3	—
Braces, Carpenter's	1	—
Bradawls, $\frac{1}{8}$ in.	1	1
Brushes, Dusting	1	1
Brushes, Sash Tool, No. 6	1	—
Chisels, Wood, $\frac{1}{2}$ in.	1	—
Cleaners, Commutator, Small	1	1
Cord, Flexible, 250V, T.R.S. 3-core, 0.0006 sq. in., yards	10	10
Covers, Dust, No. 1	1	—
Drills, Hand, 0- $\frac{1}{4}$ in.	1	—
Drills, Twist for Metal (set comprising $\frac{1}{4}$ in. Nos. 10 to 12, 25 to 27, 32 to 34, 42 to 44, and 51)	1	—
Expanders, Sleeve, No. 1	1	—
Files, Half-round, Bastard, 6 in.	1	1
"    Hand, Bastard, 6 in.	1	1
"    Pivot, Dead Smooth, 3 $\frac{1}{2}$ in.	1	—
"    Round, Bastard, 6 in.	1	1
"    Warding, Smooth, 4 in.	1	—
Hammers, Joiner's, No. 0 or 1 lb.	1	1
"    Stapling	1	—
Hand-lamps, Electric, No. 8	1	—
"    "    "    No. 9	1	—
Irons, Soldering, Electric, Medium	1	1
Nippers, Diagonal Cutting, 5 in.	1	1
Oil, Expanders Sleeve, 1 $\frac{1}{2}$ oz. bottle	1	—

TABLE 2 (contd.)

Item	Scale of issue	
	Per T.O.	Per Tech. IIA
Pliers, Cutting, 5 in., square nose .. .. .	1	1
"  Wiring, No. 2 .. .. .	1	1
"  "  No. 3 .. .. .	1	1
Ringdriver, No. 1 .. .. .	1	—
"  No. 4 .. .. .	1	—
Rules, Boxwood, 2 ft. .. .. .	1	1
Saws, Dovetail .. .. .	1	—
"  Hack, Frame, Adjustable .. .. .	1	—
Scissors, 4½ in. .. .. .	1	1
Screwdrivers, No. 301 .. .. .	1	1
"  No. 302 .. .. .	1	1
"  Cabinet, 4 in. .. .. .	1	1
"  "  8 in. .. .. .	1	—
"  Instrument, No. 1 .. .. .	1	1
"  "  "  3 .. .. .	1	1
"  "  "  5A .. .. .	1	1
Shears, Hand .. .. .	1	—
Sleeves, Rubber, No. 85 (0.059 in. intl. dia.), 4½ in. .. .. .	24	—
"  "  No. 86 (0.118 in. intl. dia.), 4½ in. .. .. .	24	—
Solder No. 7 (lb.) .. .. .	1	1
Spanners, Quick Grip, No. 1 .. .. .	1	1
Tape, Insulating, Adhesive, ¾ in. (rolls) .. .. .	1	1
Taps, BA Taper, 0, 2, 4, 6, 8 (sets) .. .. .	1	—
"  "  Plug, 0, 2, 4, 6, 8 (sets) .. .. .	1	—
Wire, Copper, Soft, Stranded, 3/20 (lb.) .. .. .	2	2
Wrenches, Tap, Adjustable .. .. .	1	—

References:—STORES, Workmen's Procedure, G 0011  
(WI2/3) STORES, Office Procedure, L 0011

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