

WIRELESS SET (CDN.) No. 9 Mk. I

Parts and Identification List

Instruction No. 1

| Ord. No.   | Mfrs. Part No. | Circuit. Ref. | Description                        | Type       | Value                     | % Tol.   | Rating |
|------------|----------------|---------------|------------------------------------|------------|---------------------------|----------|--------|
| CONDENSERS |                |               |                                    |            |                           |          |        |
|            | CMC105367      | C1A           | AE. trimmer                        | Var.       | 75 $\mu\mu\text{fd.}$     | $\pm 10$ | 500 V. |
|            | CMC113025      | C2A           | AE. coupling                       | Oil filled | 20 "                      | $\pm 10$ | 500 V. |
|            | PC68182C       | C3A           | A.V.C. decoupling, V1A             | Oil filled | .1 $\mu\text{fd.}$        | $\pm 20$ | 500 V. |
|            | PC68182C       | C3B           | Cathode by-pass, V1A               | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3C           | Screen decoupling, V1A             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3D           | A.V.C. decoupling, V1C             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3E           | Cathode by-pass, V1C               | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3F           | Screen decoupling, V1C             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3G           | A.V.C. decoupling, V1D             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3H           | Cathode by-pass, V1D               | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3J           | Screen decoupling, V1D             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3K           | A.V.C. decoupling, V1E             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3L           | Cathode by-pass, V1E               | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3M           | Screen decoupling, V1E             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3N           | Audio coupling, V1G                | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3P           | Screen decoupling, V1G             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3Q           | Plate decoupling, V1B              | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3R           | Cathode by-pass, V1B               | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3S           | A.V.C. decoupling, V2A             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3T           | Decoupling, A.V.C. line            | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3U           | Decoupling, +150 V. line           | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3V           | Plate decoupling, V1F              | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3W           | Cathode by-pass, V1F               | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3X           | Interference suppressor, Dynamotor | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3Y           | Interference suppressor, Dynamotor | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3Z           | Interference suppressor, Dynamotor | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3AA          | Input filter, Dynamotor            | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3AB          | Screen decoupling, V4A             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | PC68182C       | C3AC          | A.V.C. decoupling, V2B             | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | CMC108523      | C4A           | R.F. Amp. tuning, V1A              | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | CMC108523      | C4B           | Mixer Tuning, V1C                  | Oil filled | .1 "                      | $\pm 20$ | 500 V. |
|            | CMC108523      | C4C           | Osc. Tuning, V1B                   | Var.       | 440.04 $\mu\mu\text{fd.}$ | $\pm 20$ | 500 V. |
|            |                |               |                                    | Var.       | 440.04 "                  | $\pm 20$ |        |
|            |                |               |                                    | Var.       | 440.04 "                  | $\pm 20$ |        |

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|----------|----------------|---------------|--|--------------|-------------------------|----------|---------|
|          | CMC113026      | C6A           | Series Tuning, mixer V1C                 |              | 1830 $\mu\mu\text{fd.}$ | $\pm 2$  | 500 V.  |
|          | CMC108242      | C7A           | 1st I.F. Trimmer (pr.)                   | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7B           | 1st I.F. Trimmer (sec.)                  | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7C           | 2nd I.F. Trimmer (pr.)                   | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7D           | 2nd I.F. Trimmer (sec.)                  | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7E           | 3rd I.F. Trimmer (pr.)                   | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7F           | 3rd I.F. Trimmer (sec.)                  | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7G           | 4th I.F. Trimmer (pr.)                   | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7H           | 4th I.F. Trimmer (sec.)                  | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7J           | Diode input coil Trimmer                 | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC108242      | C7K           | B.F.O. tuning, V1F                       | Var.         | 100 "                   | $\pm 10$ |         |
|          | CMC113027      | C8A           | AV.C. coupling, V2A diode                |              | 50 "                    | $\pm 20$ | 500 V.  |
|          | CMC113028      | C9A           | Audio load by-pass V2A                   |              | .002 $\mu\text{fd.}$    | $\pm 20$ | 500 V.  |
|          | CMC113028      | C9B           | Plate coupling, V1F                      |              | .002 "                  | $\pm 20$ | 500 V.  |
|          | PC67136C       | C10A          | Cathode by-pass, V1G                     | Electrolytic | 12 "                    |          | 50 V.   |
|          | PC67136C       | C10B          | Cathode by-pass, V3B                     | Electrolytic | 12 "                    |          | 50 V.   |
|          | CMC113029      | C11A          | AE. coupling                             |              | 100 $\mu\mu\text{fd.}$  | $\pm 15$ | 500 V.  |
|          | CMC113029      | C11B          | Grid coupling, V3A                       |              | 100 "                   | $\pm 15$ | 500 V.  |
|          | CMC113029      | C11C          | Partly balance effect of AE. tuning coil |              | 100 "                   | $\pm 15$ | 500 V.  |
|          | CMC113030      | C12A          | Fixed tuning, V1B                        |              | 795 "                   | $\pm 1$  | 500 V.  |
|          | CMC108288      | C15A          | + 200 V. line filter                     |              | 1. $\mu\text{fd.}$      | $\pm 20$ | 500 V.  |
|          | CMC108288      | C15B          | L.T. filter                              |              | 1. "                    | $\pm 20$ | 500 V.  |
|          | CMC108288      | C15C          | + 150 V. line filter                     |              | 1. "                    | $\pm 20$ | 500 V.  |
|          | CMC105269      | C16A          | Input filter, Dynamotor                  |              | 400 "                   | $\pm 20$ | 500 V.  |
|          | CMC108538      | C17A          | +1000 V. filter, Dynamotor               | Electrolytic | .3 "                    | $\pm 20$ | 1500 V. |
|          | CMC108538      | C17B          | Interference suppressor, Dynamotor       |              | .3 "                    | $\pm 20$ | 1500 V. |
|          | CMC113032      | C18A          | Plate coupling, V4A                      | Mica         | .001 "                  | $\pm 20$ | 5000 V. |
|          | CMC105268      | C20A          | +200 V. filter, Dynamotor                | Electrolytic | 8 "                     | $\pm 10$ | 400 V.  |
|          | CMC113038      | C27A          | Band "A" tank trimmer, V3A               | Var. Air     | 140 $\mu\mu\text{fd.}$  |          |         |
|          | CMC113038      | C27B          | Band "B" tank trimmer, V3A               | Var. Air     | 140 "                   |          |         |
|          | CMC113039      | C28A          | Audio decoupling + 12 V. to Mic.         | Electrolytic | 100 $\mu\text{fd.}$     | $\pm 20$ | 25 V.   |
|          | CMC113040      | C29A          | Fixed tuning {Band "A" V3A tank circuit} | Silver Mica  | 1000 $\mu\mu\text{fd.}$ | $\pm 5$  | 600 V.  |

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|          | CMC113040                      | C29B         | Fixed tuning, Band "B"<br>V3A tank circuit | Silver       | 1000 $\mu$ fd. | $\pm 5$  | 600 V.  |
|          | CMC113041                      | C30A         | Fixed tuning, Band "A"<br>V3A tank circuit | Mica         | 500 "          | $\pm 5$  | 600 V.  |
|          | CMC113041                      | C30B         | Fixed tuning, Band "B"<br>V3A tank circuit | Silver       | 500 "          | $\pm 5$  | 600 V.  |
|          | CMC113042                      | C31A         | D.C. Blocking, sidetone circuit            | Mica         | .25 $\mu$ fd.  | $\pm 20$ | 100 V.  |
|          | CMC113043                      | C32A         | +1000V. line decoupling                    | Oiled paper  | .5 "           | $\pm 20$ | 2000 V. |
|          | CMC113044                      | C33A         | Meter adjustor                             | Oiled paper  | 1.75 "         | $\pm 20$ | 25 V.   |
|          | CMC113045                      | C34A         | Fixed tuning, V3A tank                     | Oiled paper  | .1 "           | $\pm 20$ | 500 V.  |
|          | CMC108537                      | C35A         | Interference suppressor, Dynamotor         | Oil filled   | 1. "           | $\pm 20$ | 750 V.  |
|          | CMC113046                      | C36A         | Grid coupling, V1B                         |              | 40 $\mu$ fd.   | $\pm 10$ | 500 V.  |
|          | CMC113047                      | C37A         | Grid coupling, V3B                         |              | .01 $\mu$ fd.  | $\pm 20$ | 600 V.  |
|          | CMC113048                      | C38A         | Grid coupling, V1F                         | Mica         | 350 $\mu$ fd.  | $\pm 20$ | 500 V.  |
|          | CMC113049                      | C39A         | Fixed tuning, V1F                          | Mica         | 150 "          | $\pm 10$ | 500 V.  |
|          | PC67193C                       | C40A         | Bias by-pass                               | Electrolytic | 5 $\mu$ fd.    | $\pm 30$ | 200 V.  |
|          | Part of<br>ganged<br>condenser | C41A         | Parallel trimmer, V1A                      | Var.         | 15 $\mu$ fd.   | $\pm 10$ |         |
|          |                                | C41B         | Parallel trimmer, V1C                      | Var.         | 15 "           |          |         |
|          | CMC108404                      | C42A         | P.A. Tuning, V4A                           | Var.         | 25-250 "       |          |         |
|          | CMC108404                      | C42B         | P.A. Tuning, V4A                           | Var.         | 25-250 "       |          |         |
|          | CMC113050                      | C43A         | Screen decoupling, V3A                     | Oiled Paper  | .02 $\mu$ fd.  | $\pm 25$ | 400 V.  |
|          | CMC113051                      | C44A         | R.F. decoupling,<br>fil. V3A               | Oiled Paper  | .05 "          | $\pm 20$ | 400 V.  |
|          | CMC113051                      | C44B         | R.F. decoupling,<br>fil. V4A               | Oiled Paper  | .05 "          | $\pm 20$ | 400 V.  |
|          | CMC119005                      | C45A         | R.F. coupling, to V5B                      | Oiled Paper  | .01 "          | $\pm 20$ | 600 V.  |
|          | CMC119007                      | C46A         | R.F. coupling, Cal. to Rcvr.               |              | 2 $\mu$ fd.    | $\pm 25$ |         |
|          | CMC119006                      | C47A         | R.F. coupling, V5B                         |              | 80 "           | $\pm 2$  |         |
|          | CMC119006                      | C47B         | R.F. coupling, V5B                         |              | 80 "           | $\pm 2$  |         |
|          | CMC113052                      | C48A         | Grid coupling, V4A                         |              | 50 "           | $\pm 10$ | 600 V.  |
|          | PC66758C                       | C49A         | Xtal. filter                               |              | .001 $\mu$ fd. | $\pm 25$ | 500 V.  |
|          | CMC113053                      | C50A         | Gang condenser trimmer                     | Ceramic      | 3-13 $\mu$ fd. |          |         |

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|----------|----------------|--------------|---|------|--------------|--------|--------|
|          | RESISTORS      |              |   |      |              |        |        |
|          | CMC119010      | R1A          | A.V.C. decoupling, V1A                  |      | 100,000 ohms | ± 10   | 1/4 W. |
|          | CMC119010      | R1B          | A.V.C. decoupling, V1C                  |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC119010      | R1C          | A.V.C. decoupling, V1D                  |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC119010      | R1D          | Grid leak, V1B                          |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC119010      | R1E          | A.V.C. decoupling                       |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC119010      | R1F          | A.V.C. voltage divider                  |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC119010      | R1G          | Plate load, V1F                         |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC111100      | R1H          | Plate load, V5B                         |      | 100,000 "    | ± 10   | 1/4 W. |
|          | CMC113054      | R2A          | Cathode bias, V1A                       |      | 300 "        | ± 10   | 1/2 W. |
|          | CMC113054      | R2B          | Cathode bias, V1D                       |      | 300 "        | ± 10   | 1/2 W. |
|          | CMC113054      | R2C          | Cathode bias, V1E                       |      | 300 "        | ± 10   | 1/2 W. |
|          | CMC113054      | R3D          | Cathode bias, V1B                       |      | 300 "        | ± 10   | 1/2 W. |
|          | CMC113055      | R3A          | Screen & Plate decoupling, V1A          |      | 3,000 "      | ± 10   | 1/2 W. |
|          | CMC113055      | R3B          | Screen & Plate decoupling, V1D          |      | 3,000 "      | ± 10   | 1/2 W. |
|          | CMC113055      | R3C          | Screen & Plate decoupling, V1E          |      | 3,000 "      | ± 10   | 1/2 W. |
|          | CMC113056      | R4A          | Cathode bias, V1C                       |      | 1,000 "      | ± 10   | 1/4 W. |
|          | CMC113056      | R4B          | Signal diode load, V2A                  |      | 1,000 "      | ± 10   | 1/4 W. |
|          | CMC113056      | R4C          | Cathode bias, V1F                       |      | 1,000 "      | ± 10   | 1/4 W. |
|          | CMC113057      | R5A          | Screen & Plate decoupling, V1C          |      | 50,000 "     | ± 10   | 1/4 W. |
|          | CMC119013      | R6A          | A.V.C. diode load, V2A                  |      | 500,000 "    | ± 10   | 1/4 W. |
|          | CMC119013      | R6B          | A.V.C. decoupling                       |      | 500,000 "    | ± 10   | 1/4 W. |
|          | CMC119013      | R6C          | Grid leak, V5A                          |      | 500,000 "    | ± 10   | 1/4 W. |
|          | CMC119013      | R6D          | A.V.C. decoupling                       |      | 500,000 "    | ± 10   | 1/4 W. |
|          | CMC113059      | R7A          | Screen decoupling, V1G                  |      | 20,000 "     | ± 10   | 1/4 W. |
|          | CMC113061      | R8A          | Cathode bias, V1G                       |      | 600 "        | ± 10   | 1/4 W. |
|          | CMC113062      | R9A          | Meter multiplier, R.F. output           |      | 10,000 "     | ± 10   | 1/4 W. |
|          | CMC113062      | R9B          | Plate decoupling, V1F                   |      | 10,000 "     | ± 10   | 1/4 W. |
|          | CMC113062      | R9C          | Grid leak, V3A                          |      | 10,000 "     | ± 10   | 1/4 W. |
|          | CMC113390      | R10A         | Volume control, V1G                     |      | 100,000 "    | ± 20   | 1/4 W. |
|          | CMC113063      | R11A         | Plate load, V1B                         |      | 5,000 "      | ± 10   | 1/4 W. |
|          | CMC108245      | R12A         | H.F. gain control, cathode bias circuit |      | 10,000 "     | ± 20   | 1 W.   |
|          | CMC113064      | R13A         | Voltage dropping, cathode bias circuit  |      | 40,000 "     | ± 10   | 2 W.   |
|          | CMC108244      | R14A         | Beat note control, V1F                  |      | 2,000 "      | ± 20   | 1/4 W. |
|          | CMC113065      | R15A         | A.V.C. Time constant increase           |      | 4 megs       | ± 10   | 1/4 W. |
|          | CMC113065      | R15B         | A.V.C. Time constant                    |      | 4 "          | ± 10   | 1/4 W. |
|          | CMC113066      | R16A         | Signal diode load, V2A                  |      | 25,000 ohms  | ± 10   | 1/4 W. |
|          | CMC113067      | R17A         | A.V.C. diode load, V2A                  |      | 250,000 "    | ± 10   | 1/4 W. |

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|          | CMC113068      | R18A         | Grid bias, V4A                    |            | 450 ohms    | ± 5    | 5 W.   |
|          | CMC113112      | R19A         | Voltage dropping, fl. V4A         |            | 4 "         |        | 40 W.  |
|          | CMC113069      | R20A         | Voltage dropping, +200V line S.U. |            | 1,000 "     |        | 5 W.   |
|          | CMC113070      | R21A         | Parasitic suppressor, V4A         |            | 130 "       | ± 10   | 1 W.   |
|          | CMC113071      | R22A         | Parasitic suppressor V5A          |            | 50 "        | ± 10   | 1/2 W. |
|          | CMC113072      | R23A         | Voltage dropping, sidetone        |            | 5,000 "     | ± 5    | 1/4 W. |
|          | CMC113073      | R24A         | Meter multiplier, MOD             |            | 2,500 "     | ± 10   | 1/4 W. |
|          | CMC119012      | R25A         | Plate load, V5B                   |            | 5,000 "     | ± 5    | 1/4 W. |
|          | CMC113075      | R26A         | Static charge leak, AE            |            | 10 meg      | ± 20   | 1 W.   |
|          | CMC113076      | R27A         | Damping resistor, T5A             |            | 330 ohms    | ± 10   | 1/4 W. |
|          | CMC113077      | R28A         | Damping resistor, T5A             |            | 27 "        | ± 10   | 1/2 W. |
|          | CMC113078      | R29A         | Audio voltage divider, V3B        |            | 25,000 "    | ± 10   | 1 W.   |
|          | CMC113079      | R30A         | Voltage dropping, Mic             |            | 35,000 "    | ± 10   | 1/2 W. |
|          | CMC113080      | R31A         | Cathode bias, V3B                 |            | 250 "       | ± 10   | 2 W.   |
|          | CMC113081      | R32A         | Beat note control, V1F            |            | 500 "       | ± 10   | 1/4 W. |
|          | CMC113082      | R33A         | Plate load, V3B                   |            | 15,000 "    | ± 10   | 1 W.   |
|          | CMC113082      | R33B         | Feedback limiter, V3B             |            | 15,000 "    | ± 10   | 1 W.   |
|          | CMC113082      | R33C         | Audio voltage dropping, V3B       |            | 15,000 "    | ± 10   | 1 W.   |
|          | CMC113083      | R34A         | Audio voltage divider, V3B        |            | 10,000 "    | ± 10   | 1 W.   |
|          | CMC113083      | R34B         | Audio voltage divider, V3B        |            | 10,000 "    | ± 10   | 1 W.   |
|          | CMC111121      | R37A         | Output pot, V5B                   |            | 5,000 "     | ± 20   | 1 W.   |
|          | CMC113086      | R38A         | Loading, T1A                      |            | 2 meg       | ± 10   | 1/4 W. |
|          | PC81264C       | R39A         | Meter scale reading adj.          |            | 20,000 ohms | ± 20   | 1/4 W. |
|          | CMC113087      | R40A         | Meter multiplier, Output          |            | 4,000 "     | ± 10   | 10 W.  |
|          | CMC113088      | R41A         | Grid bias, V4A                    |            | 1,500 "     | ± 5    | 10 W.  |
|          | CMC113089      | R42A         | Grid bias, V4A                    |            | 150 "       | ± 5    | 5 W.   |
|          | CMC113090      | R43A         | Meter multiplier, L.T.            |            | 30,000 "    | ± 2    | 1/4 W. |
|          | CMC119011      | R44A         | Meter multiplier, Bias            |            | 300,000 "   | ± 5    | 1/4 W. |
|          | CMC119011      | R44B         | Grid resistor, V5B                |            | 300,000 "   | ± 5    | 1/4 W. |
|          | CMC119011      | R44C         | Grid resistor, V5B                |            | 300,000 "   | ± 5    | 1/4 W. |
|          | CMC113091      | R45A         | Meter multiplier, + 150 V.        |            | 600,000 "   | ± 5    | 1/4 W. |
|          | CMC113091      | R45B         | Meter multiplier, + 200 V.        |            | 600,000 "   | ± 5    | 1/4 W. |
|          | CMC113092      | R46A         | Voltage dropping, dial lights     |            | 8 "         | ± 5    | 5 W.   |
|          | CMC113092      | R46B         | Voltage dropping, pilot lights    | Wire Wound | 8 "         |        | 5 W.   |
|          | CMC119009      | R47A         | Plate load, V5B                   | Wire Wound | 200,000 "   | ± 5    | 1/4 W. |
|          | CMC119008      | R48A         | Plate load, V5B                   | Wire Wound | 10,000 "    | ± 5    | 1/4 W. |

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| <b>INDUCTANCES AND R.F. TRANSFORMERS</b> |                |              |  |      |       |        |        |
|  | CMC108525      | L1A          | AE. coupling transformer                 |      |       |        |        |
|  | CMC95150       | L2A          | R.F. coupling transformer                |      |       |        |        |
|  | CMC95114       | L3A          | Osc. coil, V1B                           |      |       |        |        |
|  | CMC108806      | L4A          | Input transformer, 1st band-pass filter  |      |       |        |        |
|  | CMC108806      | L4B          | Input transformer, 2nd band-pass filter  |      |       |        |        |
|  | CMC108806      | L5A          | Output transformer, 1st band-pass filter |      |       |        |        |
|  | CMC108806      | L5B          | Output transformer, 2nd band-pass filter |      |       |        |        |
|  | CMC105305      | L6A          | I.F. output transformer                  |      |       |        |        |
|  | CMC105300      | L7A          | B.F.O. tank coil, V1A                    |      |       |        |        |
|  | CMC105318      | L8A          | R.F. choke, Dyn. input                   |      |       |        |        |
|  | CMC89522       | L9A          | + 150 V. filter choke, Dyn.              |      |       |        |        |
|  | CMC89521       | L10A         | + 200 V. filter choke, Dyn.              |      |       |        |        |
|  | CMC89521       | L10B         | Filter choke, Dyn.                       |      |       |        |        |
|  | CMC108491      | L16A         | R.F. choke, grid, V4A                    |      |       |        |        |
|  | CMC108491      | L16B         | R.F. choke, grid V3A                     |      |       |        |        |
|  | CMC108491      | L16C         | R.F. choke, screen V3A                   |      |       |        |        |
|  | CMC108496      | L17A         | R.F. choke, plate V4A                    |      |       |        |        |
|  | CMC110171      | L18A         | M.O. tank coil, Band "A"                 |      |       |        |        |
|  | CMC110171      | L18B         | M.O. tank coil, Band "B"                 |      |       |        |        |
|  | CMC108903      | L19A         | AE. tuning coil                          |      |       |        |        |
|  | CMC97673       | L20A         | Osc. tank coil, V3B                      |      |       |        |        |
|  | CMC111107      | L21A         | Crystal osc. coil, V5A                   |      |       |        |        |
|  | PC79115C       | L22A         | R.F. choke, meter                        |      |       |        |        |
|  | PC77371C       | L23A         | R.F. output meter transformer            |      |       |        |        |
| <b>PLUGS, SOCKETS AND CONNECTORS</b>     |                |              |  |      |       |        |        |
|  | CMC108517      | PL-1A        | Rcvr. connector plug                     |      |       |        |        |
|  | CMC108518      | PL-2A        | Sender connector plug                    |      |       |        |        |
|  | CMC108532      | PL-3A        | Sender connector plug                    |      |       |        |        |
|  | CMC108573      | PL-4A        | Sender connector plug                    |      |       |        |        |
|  | CMC108272      | PL-5A        | Connector (cradle to rcvr.)              |      |       |        |        |

| Ord. No. | Mfrs. Part No. | Circuit Ref. | Description                              | Type | Value | % Tol. | Rating |
|----------|----------------|--------------|--|------|-------|--------|--------|
|          | CMC108271      | PL-6A        | Connector (cradle to rcvr.)              |      |       |        |        |
|          | CMC105267      | PL-7A        | Connector (cradle to sender)             |      |       |        |        |
|          | CMC113115      | PL-8A        | Connector (cradle to sender)             |      |       |        |        |
|          | CMC108225      | PL-9A        | Connector (battery to supply unit)       |      |       |        |        |
|          | CMC108230      | PL-10A       | Connector (L.P. dyn. to supply unit)     |      |       |        |        |
|          | CMC108215      | PL-11A       | Connector (H.P. dyn. to supply unit)     |      |       |        |        |
|          | PC76340C       | PL-12A       | Connector (Headgear No.1 to supply unit) |      |       |        |        |
|          | PC76340C       | PL-12B       | Connector (Headgear No.1 to supply unit) |      |       |        |        |
|          | CMC106490      | PL-13A       | Connector (L.P. dyn. to supply unit)     |      |       |        |        |
|          | CMC108220      | PL-14A       | Connector (H.P. dyn. to supply unit)     |      |       |        |        |
|          | CMC113185      | PL-19A       | Connector (M.O. to sender)               |      |       |        |        |
|          | CMC113186      | PL-20A       | Connector (Mod. to sender)               |      |       |        |        |
|          | CMC113157      | PL-21A       | Connector (M.O. to sender)               |      |       |        |        |
|          | CMC113207      | PL-22A       | Connector (Mod. to sender)               |      |       |        |        |
|          | SWITCHES       |              |  |      |       |        |        |
|          | CMC95022       | S1A          | Flat-sharp selectivity SW.               |      |       |        |        |
|          | CMC95020       | S2A          | Revr. selector SW.                       |      |       |        |        |
|          | CMC102076      | S3A          | Meter SW.                                |      |       |        |        |
|          | CMC108233      | S4A          | Phone-Loudspeaker SW.                    |      |       |        |        |
|          | CMC108233      | S4B          | Long or short AE. SW.                    |      |       |        |        |
|          | CMC108233      | S4C          | Send-Receive SW.                         |      |       |        |        |
|          | CMC108233      | S4D          | Net SW.                                  |      |       |        |        |
|          | CMC108233      | S4E          | HIGH-LOW SW.                             |      |       |        |        |
|          | PC83194C       | S5A          | Main OFF-ON SW.                          |      |       |        |        |
|          | CMC113097      | S6A          | Circuit breaker                          |      |       |        |        |
|          | PC90611C       | S7A          | Dynamotor starting relay                 |      |       |        |        |
|          | CMC113098      | S8A          | H.P. dyn. starting relay                 |      |       |        |        |
|          | CMC108405      | S9A          | Band SW.—M.O.                            |      |       |        |        |
|          | CMC108572      | S9B          | Band SW.—P.A.                            |      |       |        |        |
|          | CMC108474      | S10A         | Gate safety SW.—                         |      |       |        |        |
|          | CMC108473      |              | Assy. of rod, collar & bracket           |      |       |        |        |
|          | CMC108459      | S11A         | Sender selector SW.                      |      |       |        |        |
|          | CMC108357      | S12A         | AE. relay SW.                            |      |       |        |        |
|          | CMC108312      | S13A         | Frequency selector                       |      |       |        |        |
|          | CMC111127      | S15A         | Dial light SW.                           |      |       |        |        |
|          | CMC108180      | S16A         | Dial light SW.                           |      |       |        |        |
|          | CMC108175      |              |  |      |       |        |        |

| Ord. No.      | Mfrs. Part No. | Circuit Ref.       | Description                               | Type            | Value | % Tol. | Rating |
|---------------|----------------|--------------------|---|-----------------|-------|--------|--------|
| TRANSFORMERS  | CMC89523       | T1A                | Intervalve audio coupling transformer—V1C |                 |       |        |        |
|               | CMC97693       | T2A                | Output transformer                        |                 |       |        |        |
|               | CMC97672       | T3A                | Modulation transformer                    |                 |       |        |        |
|               | CMC97660       | T4A                | Mic. transformer                          |                 |       |        |        |
|               | CMC108490      | T5A                | AE current transformer                    |                 |       |        |        |
| VALVES        | CMC108016      | V1A                | R.F. amplifier                            | ARP3            |       |        |        |
|               | CMC108016      | V1B                | Local oscillator                          | ARP3            |       |        |        |
|               | CMC108016      | V1C                | Mixer                                     | ARP3            |       |        |        |
|               | CMC108016      | V1D                | I.F. amplifier                            | ARP3            |       |        |        |
|               | CMC108016      | V1E                | I.F. amplifier                            | ARP3            |       |        |        |
|               | CMC108016      | V1F                | BFO                                       | ARP3            |       |        |        |
|               | CMC108016      | V1G                | A.F. amplifier                            | ARP3            |       |        |        |
|               | CMC108015      | V2A                | Detector, A. V. C.                        | 12Y4<br>(ARDD1) |       |        |        |
|               | PC86185C       | V3A                | Master oscillator                         | 6V6G            |       |        |        |
|               | PC86185C       | V3B                | Modulator                                 | 6V6G            |       |        |        |
| CMC108018     | V4A            | Power amplifier    | 813                                       |                 |       |        |        |
| CMC108017     | V5A            | Crystal oscillator | 12SC7                                     |                 |       |        |        |
| CMC108017     | V5B            | Multivibrator      | 12SC7                                     |                 |       |        |        |
| MISCELLANEOUS | RCA111820      | J1A                | Key jack                                  |                 |       |        |        |
|               | RCA111820      | J1B                | Mic. jack                                 |                 |       |        |        |
|               | CMC108239      | J2A                | Headphone jack                            |                 |       |        |        |
|               | CMC108239      | J2B                | Headphone jack                            |                 |       |        |        |
|               | CMC105317      | M1A                | Test & tuning meter                       |                 |       |        |        |
|               | CMC105317      | M1B                | AE tuning meter                           |                 |       |        |        |
|               | CMC108124      | MG1A               | H.P. dynamotor                            |                 |       |        |        |
|               | CMC108123      | MG2A               | L.P. dynamotor                            |                 |       |        |        |
|               | CMC108019      | P1A                | "A" vernier dial lamp                     |                 |       |        |        |
|               | CMC108019      | P1B                | Main tuning dial pilot lamp               |                 |       |        |        |
|               | CMC108019      | P1C                | "B" vernier dial lamp                     |                 |       |        |        |
|               | CMC108019      | P1D                | M.O. "A" band pilot lamp                  |                 |       |        |        |
|               | CMC108019      | P1E                | M.O. "B" band pilot lamp                  |                 |       |        |        |
|               | CMC108500      | SPKR1A             | Loudspeaker                               |                 |       |        |        |
|               | PC90747C       | W1A                | Rectifier AE current meter                |                 |       |        |        |
|               | PC90747C       | W1B                | Rectifier for mod. meter                  |                 |       |        |        |
|               | CMC111123      | XTAL1A             | Crystal oscillator B5A                    |                 |       |        |        |

END

WIRELESS SET (CDN) NO. 9 MK. I

GENERAL DATA

Instruction No. 1

General

1. Wireless Set (Cdn) No. 9, Mk. I is a combined sender/receiver designed for operation in a vehicle or on the ground.

2. Frequency Range .. .. . 1.87 - 5.00 Mc/s.  
Intermediate frequency - Receiver .. .. 420 Kc/s.

3. Sender Valves .. V3A Master Oscillator 6V6G  
V4A Power Amplifier 813  
V3B Modulator 6V6G

Receiver Valves .. V1A R.F. Amplifier ARP3  
V1B Conversion Oscillator ARP3  
V1C Mixer ARP3  
V1D 1st I.F. Amplifier ARP3  
V1E 2nd I.F. Amplifier ARP3  
V1F Beat Frequency Oscillator ARP3  
V2A Detector and A.V.C. 12Y4 (ARDD1)  
V1G Audio Amplifier ARP3  
V5A Calibrator Oscillator 12SC7  
V5B Calibrator Multivibrator 12SC7

4. Power Supply .. .. Filament supply - 12 V. Accumulator  
(through supply unit)  
200 V. and 1000 V. - supplied to sender  
by Dynamotor  
150 V. - supplied to receiver by Dynamotor

5. Power Input and Output.

| Type of Operation                         | Input Watts | Output Watts |
|---|-------------|--------------|
| Receive                                   | 54          |              |
| Net                                       | 72          |              |
| R/T (High Power)                          | 276         | 30           |
| M.C.W. (High Power)                       | 288         |              |
| C.W. (High Power)                         | 360         | 50           |
| R/T )<br>M.C.W. ) - (Low Power)<br>C.W. ) | 229         | 5            |
| C.W. Key Up (High and Low Power)          | 156         |              |
| Remote Receiver and ZE 11 SU              | 36          |              |

6. Working Range .. With 16 foot rod aerial and vehicle stationary, probable range may be:-

R/T .. .. 25 miles  
C.W. .. .. 50 "

7. Weights and Dimensions.

| Unit                            | Dimensions Ins.   | Weight: Lbs. |
|---------------------------------|---|--------------|
| Complete Equipment (in carrier) | $16\frac{3}{4} \times 43 \times 13\frac{1}{4}$            | 230          |
| Sender                          | $14\frac{1}{4} \times 15\frac{1}{4} \times 11\frac{1}{2}$ | 43           |
| Aerial Tuning Coil              | $8\frac{1}{2} \times 15\frac{1}{2} \times 10\frac{1}{2}$  | 14           |
| Receiver                        | $14\frac{1}{4} \times 15\frac{1}{4} \times 11\frac{1}{2}$ | 69           |
| Supply Unit                     | $14\frac{7}{8} \times 8\frac{1}{4} \times 12\frac{3}{4}$  | 59           |
| ZE 11 Supply Unit               | $8\frac{3}{8} \times 10\frac{1}{8} \times 8$              | 26           |