

CONCISE DETAILS OF RECEIVERS, Types R.1155, R.1155A, B, C, D, E, F, L, M, and N

Purpose of Equipment	...	Designed for use in aircraft with transmitters of the T.1154 class. Also used in some A.S.R. launches, radio vehicles, and ground installations. Provides communications and direction-finding facilities.																																				
Type of Wave	C.W., M.C.W., and R.T.																																				
Frequency Range	...	18.5 Mc/s to 3.0 Mc/s 1,500 kc/s to 600 kc/s 500 kc/s to 75 kc/s																																				
		<i>Types R.1155L and N only</i> 18.5 Mc/s to 600 kc/s 500 kc/s to 200 kc/s																																				
		All versions use an I.F. of 560 kc/s																																				
Maximum Sensitivity	...	Input of 10 micro-volts at 210 kc/s gives output in excess of 50 milliwatts Input of 9 micro-volts at 16 Mc/s gives an equivalent output																																				
Selectivity	Approximately 4 kc/s to 6 kc/s total bandwidth for 6 db attenuation																																				
Output Impedance	...	5,000 ohms																																				
Valves	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><i>Function</i></th> <th style="text-align: left;"><i>Description</i></th> <th style="text-align: left;"><i>Type</i></th> <th style="text-align: left;"><i>Stores Ref.</i></th> </tr> </thead> <tbody> <tr> <td>Visual D/F switching</td> <td>Two triode-hexodes</td> <td>V.R.99A</td> <td>10E/757</td> </tr> <tr> <td>R.F. amplifier</td> <td>Variable-mu pentode</td> <td>V.R.100</td> <td>10E/278</td> </tr> <tr> <td>Frequency-changer</td> <td>Triode-hexode</td> <td>V.R.99</td> <td>10E/277</td> </tr> <tr> <td>I.F. amplifier</td> <td>Two variable-mu pentodes</td> <td>V.R.100</td> <td>10E/278</td> </tr> <tr> <td>A.V.C. and B.F.O.</td> <td>Double diode triode</td> <td>V.R.101</td> <td>10E/280</td> </tr> <tr> <td>Speech diode, visual meter limiter and output</td> <td>Double diode triode</td> <td>V.R.101</td> <td>10E/280</td> </tr> <tr> <td>Visual meter switching</td> <td>Double triode</td> <td>V.R.102</td> <td>10E/279</td> </tr> <tr> <td>Tuning indicator</td> <td></td> <td>V.I.103</td> <td>10E/305</td> </tr> </tbody> </table>	<i>Function</i>	<i>Description</i>	<i>Type</i>	<i>Stores Ref.</i>	Visual D/F switching	Two triode-hexodes	V.R.99A	10E/757	R.F. amplifier	Variable-mu pentode	V.R.100	10E/278	Frequency-changer	Triode-hexode	V.R.99	10E/277	I.F. amplifier	Two variable-mu pentodes	V.R.100	10E/278	A.V.C. and B.F.O.	Double diode triode	V.R.101	10E/280	Speech diode, visual meter limiter and output	Double diode triode	V.R.101	10E/280	Visual meter switching	Double triode	V.R.102	10E/279	Tuning indicator		V.I.103	10E/305
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Power Input	Omni and A.V.C. approx. 45 watts Visual D.F. approx. 50 watts																																				
Power Output	Max. 200 milliwatts into 5,000 ohms impedance																																				
Stores Ref.	R.1155, 10D/98; R.1155A, 10D/820; R.1155B, 10D/13045; R.1155C, 10D/1105; R.1155D, 10D/1331; R.1155E, 10D/1332; R.1155F, 10D/1333 R.1155L, 10D/1477; R.1155M, 10D/1597; R.1155N, 10D/1667																																				
Approx. Overall Dimensions		<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><i>Length</i></td> <td style="text-align: center;"><i>Width</i></td> <td style="text-align: center;"><i>Height</i></td> </tr> <tr> <td style="text-align: center;">16 $\frac{7}{8}$ in. ...</td> <td style="text-align: center;">9 $\frac{3}{8}$ in. ...</td> <td style="text-align: center;">11 $\frac{1}{8}$ in.</td> </tr> </table>	<i>Length</i>	<i>Width</i>	<i>Height</i>	16 $\frac{7}{8}$ in. ...	9 $\frac{3}{8}$ in. ...	11 $\frac{1}{8}$ in.																														
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Weight	Aluminium versions approx. 26 lb. Steel versions approx. 32 lb.																																				
Associated Equipment	...	Transmitters, T.1154 series Resistance units, types 47 and 52 and 52A Aerial switch unit, type J Visual indicator, type I Impedance matching units, type 12, 13 or 15 Power units, types 32, 32A, 32B, 33, 33A, 33B, 34, 34A, 35, 35A, 114, 115, 268, and 380																																				

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CHAPTER 2

RECEIVERS, Types R.1155, R.1155A, B, C, D, E, F, L, M, and N

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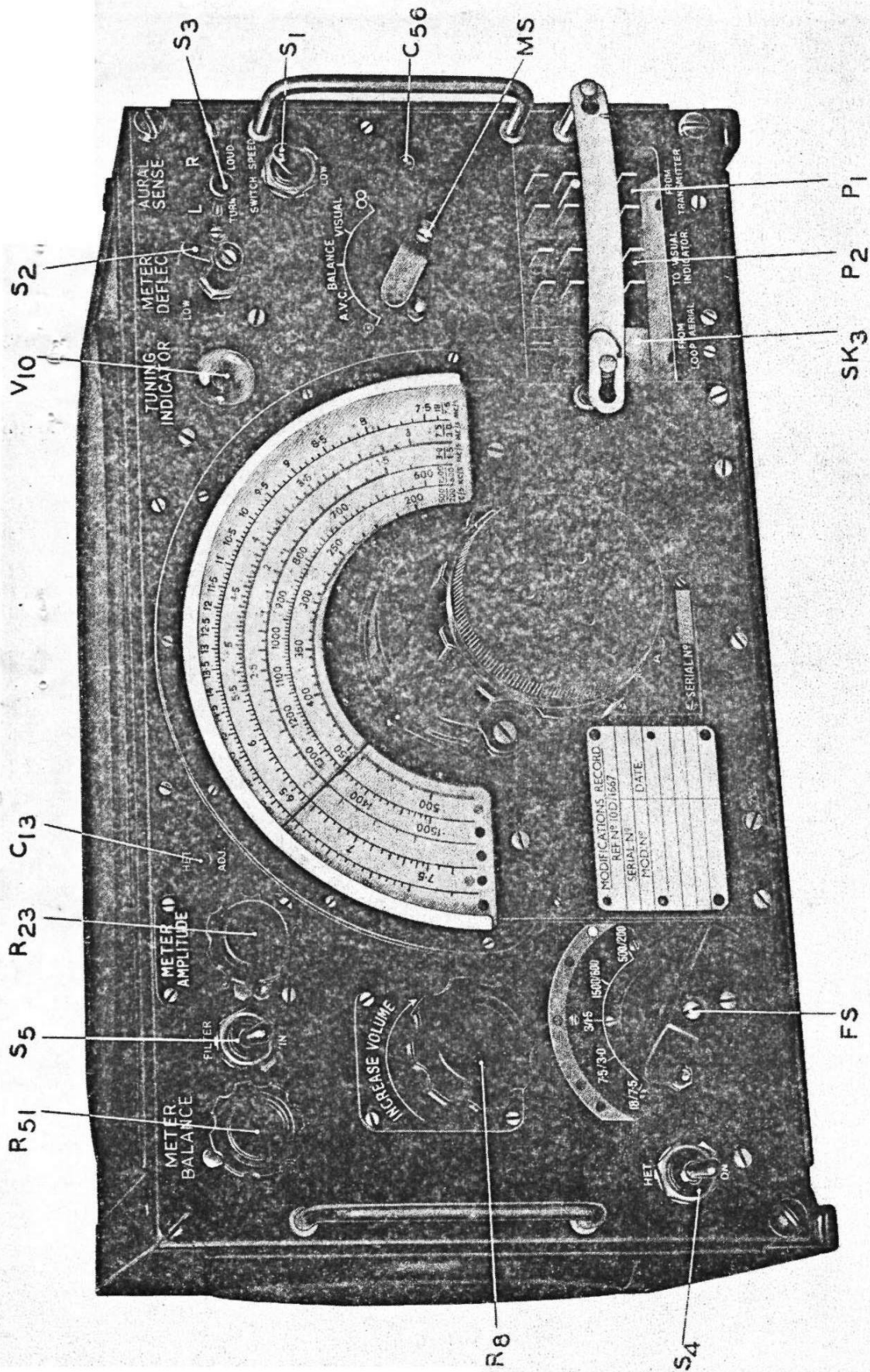


FIG. 1.—RECEIVER R.1155N