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Teaberry "T" Charlie One Alignment Information

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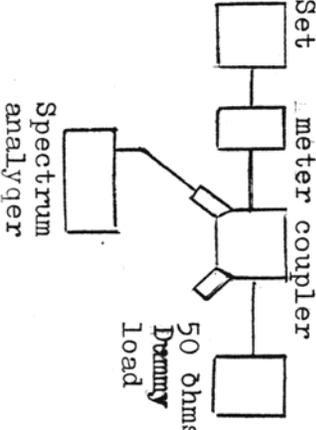
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Model R Charlie One Alignment Procedure

Step	Test Equipment	Meter Point	Alignment Procedure
Receiver section 1. OSC Circuit	Oscilloscope	Secondary terminal of L904	1. Adjust for a max output (Turn the core of L904 about 3 turns to counter clock wise from top end of bobbin) 2. Adjust L902, L903 and L904 for a max. output
2. Antenna and RF stage	AM SSG 27.115 MHz (26.965-27.225 MHz) Mod Freq 1KHz Mod 30% 8 ohms dummy load VTVM Oscilloscope	Antenna terminal " " Ext. speaker socket	1. Preset: a) Channel switch; 13 chan. b) Delta switch; center c) Squelch control volume; Min (counter clock-wise) 2. Adjust L1001, L102, T301, T302 and T303 for a max. output 3. Adjust T305 and T306 for a max. output 4. Check the operation of all channels
3. S meter adjustment	Same as item 2 of Receiver section	Same as item 2 of Receiver section	1. Adjust R515 for a slightly move of indicator from 0 to 9 with no signal condition from SSG 2. Adjust R514 to indicate "9" position on S meter at 50UV with in antenna actual input voltage.

<p>4. Squelch adjustment</p> <p>Transmitter Section</p> <p>1. RF Stage</p>	<p>Same as item 2 of Receiver section</p>	<p>Same as item 2 of Receiver section</p>	<ol style="list-style-type: none"> <li>1. Preset squelch volume control for a max. (clock-wise position)</li> <li>2. Adjust R508 to obtain just audio power output at 250UV with in antenna actual input</li> </ol>
<p>2. RF stage (2nd harmonic frequency adjustment</p>	<p>Oscilloscope (Max frequency about 40MHz)</p> <p>50 ohms power meter</p> <p>8 ohms dummy load</p>	<p>Antenna terminal</p> <p>Ext. Speaker socket</p>	<ol style="list-style-type: none"> <li>1. Adjust L905, L906, L907, L908, L910, L912 and L913 for a max output</li> <li>2. According to above step, decrease the inductance of L913 until the RF power output is about standard value. (Turn the core of L913 to counter clockwise)</li> </ol>
<p>T Charlie One</p>	<p>50 ohms dummy load</p> <p>50 ohms power meter</p> <p>CM coupler</p> <p>Spectrum analyzer or field strength meter</p>	<p>Antenna terminal</p> <p>Set RF Power meter CM meter coupler</p> 	<p>Asjust L914 for a max. dip indication of 2nd harmonic frequency displaying on the spectrum analyzer or field strength meter.</p>

3. RF power meter adjustment	Same as item 1 of transmitter section	Same as item 1	Adjust R516 to obtain the indication of RF Meter as same value to the power meter
4. Over modulation limiter adjustment	Same as item 1 of transmitter section and Audio Frequency Generator	Same as item 1 Microphone socket terminal 2 and 3	<ol style="list-style-type: none"> <li>1. Connect the AF Generator to Mic socket terminal across 2 and 3</li> <li>2. Set the AF Generator output voltage at 15mV and adjust R520 to obtain the modulated wave with non-clipping at peak envelope.</li> </ol>