

WIRELESS STATION A510

INSPECTION STANDARDS

INSPECTION FOR SERVICEABILITY WITHIN UNITS AND RAAOC DEPOTS

TABLE 1 - VISUAL INSPECTION

No	Item
1	Cleanliness - (a) All items clean, free from grease, dust, corrosion (b) Paintwork functional. All stencilled or engraved letters legible
2	Accessories - (a) Rod aeriels free of kinks and cracked or broken sections; contact surfaces in good condition. (b) Wire aeriels free of knots and kinks; insulation in good condition; wire wound on bobbins correctly. (c) Microphone and receiver headgear, handsets and key in good condition, all cords free from fraying, plugs firmly attached, pins undamaged, and firmly retained when plugged into sockets. (d) Pouches and satchels in good condition.
3	Inductors, tuning - (a) Ball and socket joint in good condition. (b) Tuning knob tight on shaft and turning freely. (c) Tuning indicator and locking lever functioning correctly.
4	Sender Unit - (a) Frequency control knob turning freely and stop set at 10 Mc/s. (b) Matching switch and crystal switch operating positively and independent of each other. (c) Function switch and A-B-NET switch operating correctly and independent of each other. (d) Crystal cover held firmly in position. (e) Meter glass sound and tight. (f) Humidity indicator blue.
5	Receiver Unit - (a) Frequency and volume knobs tight on shafts and turning freely. (b) Sockets, five point, clean, and making good contact. (c) Interconnecting cables, plugs and sockets clean and mating correctly. (d) Humidity indicator blue.
6	Case Assemblies - (a) Free from cracks or holes. (b) Retaining clips complete and secure. (c) Battery compartments free of corrosion and fitting correctly. (d) Locking wheels free from damage and locking securely. (e) Neoprene rubber gaskets in good condition and fitting correctly.
7	Cases Transit - (a) Woodwork free of cracks and rot. (b) Lid hinges and fasteners complete and firmly attached. (c) Canvas carrying handle free of rot and securely fastened to lid.

TABLE 2 - FUNCTIONAL TESTS

Equipment assembled for operation.

Conditions						
No	Test	General	Switch positions			Desired Result
			Control	A-B-NET	Match- ing	
1	LT battery		CW	NET	ANY	Meter reads within red sector
2	HT battery		VOICE	NET	ANY	" " " "
3	Receiver		R	A or B	ANY	Normal receiver noise in phones
4	RF Output	(a) 75 μ load or rod aerial. Set tuned to Crystal freq.	CW	B	0	Meter reads > 2 divisions.
		(b) As for (a)	VOICE	B	0	Meter reads > 1 division.
		(c) Repeat (a) and (b) for each Crystal				As in (a) or (b)
		(d) 2000 μ load or long wire aerial. Repeat (a) (b) (c)	CW or VOICE	A	0	As in (a) or (b)
5	Sidetone	(a) Key pressed.	CW	A or B	0	Sidetone note in phones
		(b) Whistle into Mic	VOICE	A or B	0	Sidetone note in phones
6	Net	(a) Tune rec to sender crystal frequency	R	NET	ANY	Zero beat in phones and clear audio note either side
		(b) Repeat (a) on other band				
7	Dial lock	Net as in 6 - operate dial lock four times	R	NET	ANY	Zero beat or audible note. Netting signal must not be lost.
8	Pilot lamps		CW	ALL	ANY	Sender pilot lights
			R	A & B	ANY	Receiver pilot lights
			R	NET	ANY	Both pilots light
			VOICE	ALL	ANY	Sender pilot lights
9	Operational	When two or more sets are available check performance over at least 100 yds	AS	REQUIRED		Check clarity of speech and CW operation - free of chirps and key clicks.

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