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RadioSet SCR-522-A is a VHF, 24-volt command set, identical with SCR-542, with the exception of the latter's 12-volt dynamotor. It is also similar to, and interchangeable with the British VHF Command Equipment, Type TR-1143.

RadioSet SCR-522-A is used in interceptor pursuit planes and provides communication between planes in flight, and between planes and the ground, the latter in conjunction with Ground Control Net System SCS-2 and SCS-3, and Control Net Addition SCS-4. The equipment is also used with bombers and transports for communication with escort fighter planes.

The equipment has four push button operated, crystal-controlled channels within the frequency range of 100 to 156 mc, with voice transmission on three channels and "pip squeak" transmission on the fourth channel. Reception is usually on the same four frequencies, three of which are ordinarily used.

Test equipment required for maintenance includes Test Equipments IE-36, IE-19 and IE-12.

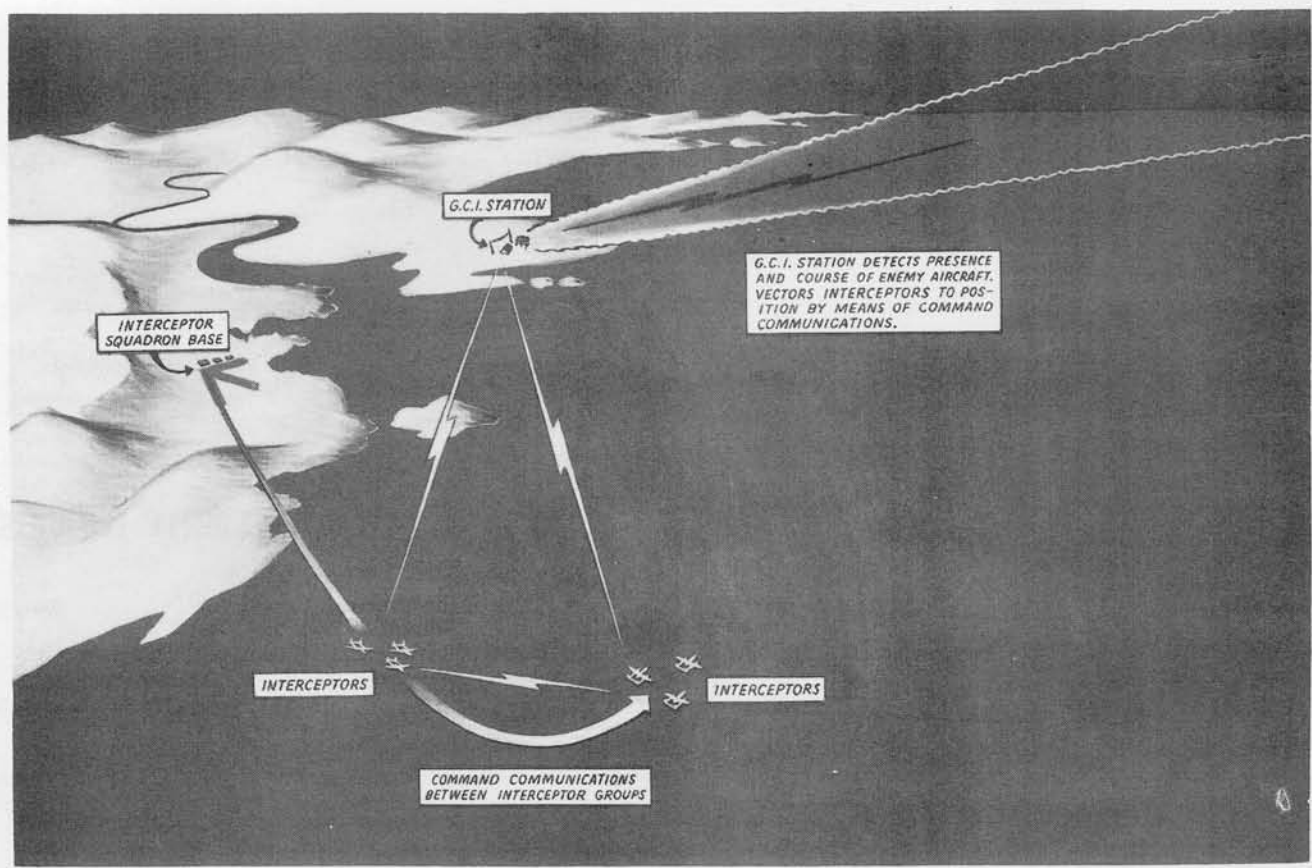
Army Supply Program requirements as of 27 December 1944 were 93,555 for the calendar year 1944, and 21,095 for 1945.



Radio Set SCR-522 installed in P-38E aft of pilot position

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
1	12J5GT	3	12SG7
1	12C8	2	832
1	9002	3	12A6
3	9003	1	6G6G
1	12AH7GT	2	6SS7

POWER INPUT	325 WATTS @ 28 VOLTS
POWER OUTPUT	6 WATTS
FREQUENCY	100-156 MC.
TYPE OF SIGNAL	VOICE
RANGE	130 MILES AT 10,000 FEET (LINE OF SIGHT)



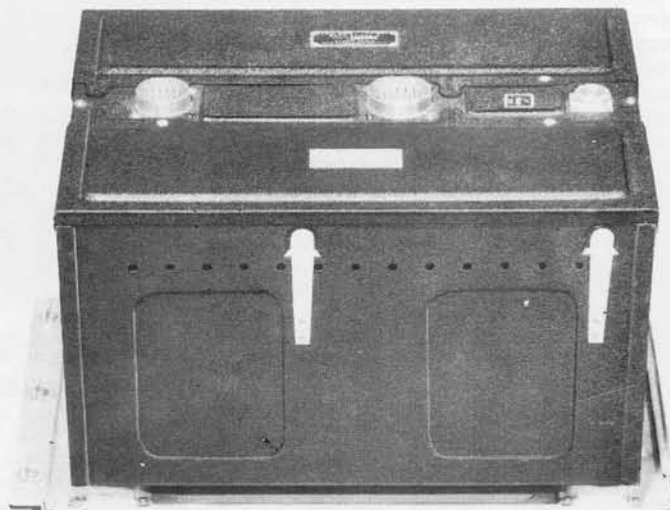
Installed in most types of tactical aircraft for providing command communication facilities, Radio Set SCR-522, capable of being operated on any one of four preset channels in the 100-156 mc. range, may be employed by pilots of fighter aircraft to receive information to aid in the interception of enemy planes.

SCR-522-A

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Antenna Mast AN-104



Radio Receiver BC-624-A
Radio Transmitter BC-625-A
In Case CS-80



Radio Control Box BC-602-A



Dynamotor Unit PE-94-C

RADIO SET SCR-522-A

TOTAL WEIGHT 125 LBS.

Component	Nomenclature	Size	Weight
Case	CS-80	17" x 13" x 11"	29 Lbs. with transmitter and receiver and rack.
Radio Transmitter	BC-625-A		
Radio Receiver	BC-624-A		
Rack	FT-244-A		
Crystal Unit	DC-11-A (8 each)	2" x 2" x 1"	*
Dynamotor Unit	PE-94-A	13" x 9" x 7"	37 Lbs.
Dynamotor Unit	PE-98-A	13" x 9" x 7"	37 Lbs.
Jack Box	BC-629-A (Pilot)	5" x 3" x 2"	*
Jack Box	BC-630-A (Pilot Crew)	5" x 3" x 2"	*
Jack Box	BC-631-A (Other Crew)	5" x 3" x 2"	*
Junction Box	JB-29-A	9" x 5" x 3"	2 Lbs.
Radio Control Box	BC-602-A	6" x 6" x 3"	3 Lbs.

and includes cables, plugs, connectors, and etc.

* Less than 1 lb.