

Radio Set SCR-585 is a dual-purpose radio receiver and transmitter designed for two-way glider communication over distances up to one mile. It is a portable radio telephone, receiving and transmitting on the same frequency.

When operated in a glider, headphones and a throat microphone are used. While headphones are available for both pilot and co-pilot, provision is made for only one microphone.

By unbuckling the strap and buckle assembly, and pushing the release lever, Radio Receiver and Transmitter BC-721 is released and becomes a press-to-talk self-contained portable radio telephone resembling an ordinary hand telephone set. When operated in this manner, Radio Receiver and Transmitter BC-721 is automatically turned on by fully extending the self-contained telescopic antenna. No volume control is used with the radio receiver and transmitter when it is being operated as a portable radio telephone.

Radio Set SCR-585 is crystal controlled on both reception and transmission, and will operate over the frequency range of 3500 to 6000 kc. Each unit, however, is adjusted to operate at only one frequency at a time in this band. Reception and transmission are on the same frequency. The set can be made to operate at any frequency in the band by proper choice of crystals and coils. For correct performance, each set must have coils adjusted to the crystals used. The coils and crystal changes and their adjustments cannot be made by the operator, but are set by the manufacturer, or by maintenance men at authorized repair depots.

Test equipment required for maintenance includes test equipment IE-17-B.

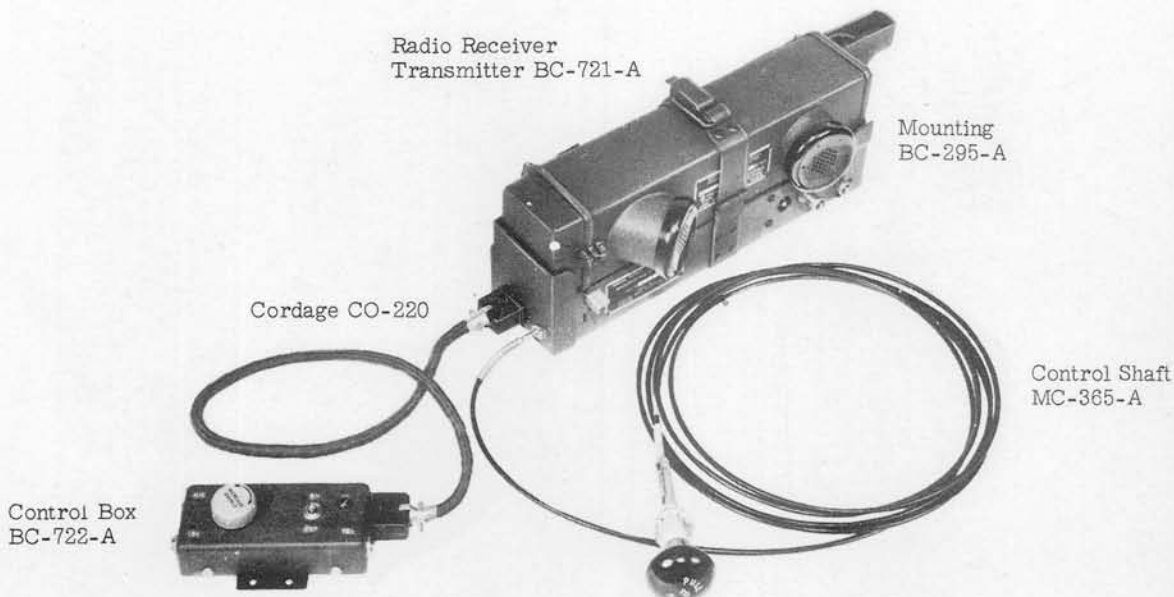
There were no Army Supply Program requirements as of 30 November 1944.



Installation of Control Box and "pull to talk" switch on instrument panel, pilots position in CG-4A glider.

POWER SUPPLY	BA-37 AND BA-38 BATTERIES
POWER OUTPUT	0.25 WATTS PEAK
FREQUENCY	ONE PRETUNED FREQ. IN 3500-6000 KC BAND
TYPE OF SIGNAL	VOICE
RANGE	GLIDER TO GROUND-5 MILES, GROUND TO GROUND, 1 MILE.

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
2	IR5	2	3S4
1	IT4		



RADIO SET SCR-585

TOTAL WEIGHT 10 LBS

Component	Nomenclature	Size	Weight
Mounting	FT-295-()	5'' x 5'' x 17''	4 Lbs.
Radio Receiver & Transmitter	BC-721-()	4'' x 6'' x 17''	5 Lbs.
Radio Control Box	BC-722-()	2'' x 3'' x 6''	1 Lb.