

1-14974

N3-4850

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VIA: A I R
(SPECIFY AIR OR SEA POUCH)

DISPATCH NO. []

25X1

~~SECRET~~
SECURITY INFORMATION
CLASSIFICATION

TO : Chief, []
FROM : Chief, []

DATE 30 November 1953

25X1

SUBJECT: GENERAL— Engineering
SPECIFIC— Supplementary Report, Russian "SABERU"

REF: SEOU 53-050

Transmitted herewith is one (1) copy of a supplementary report
of the "SABERU" []

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L.P.K.

Orig: []

25X1

Encl: Subject Report

Dist: 3 []
1 []
1 []

DOC 02 REV DATE 1 MAY 1980 BY 018373
ORIG COMP 33 OPI 56 TYPE 10
ORIG CLASS S PAGES 23 REV CLASS C
JUST 22 NEXT REV 2010 AUTH: MB T-4

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SUPPLEMENT
TO
FIELD REPORT ON THE "SABERU"
(SEOU 53-050)

~~SECRET~~
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DATE: 19 NOVEMBER 1953

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FOREWORD

It is the object of this report to present supplementary information gathered from a recently captured "Saberu" agent radio. This set, although fundamentally identical to set Model 1 discussed in the previous report (SEOU 53-050), has certain slight changes as can be noted from the attached photos and schematic diagram.

Also of interest is the fact that this set was in "factory new" condition and [redacted] to have been brought into North Korea from the Soviet Union just prior to his launching. This claim may or may not be true, however as can be seen by a comparison of chassis numbers it is the newest of its type to have turned up in this area.

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[redacted]

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GENERAL:

Switch SW8 was actually present on the earlier sets although not shown on the previous schematic diagram. This switch, which is normally closed (VFO operation), is caused to open when a crystal is inserted in the crystal jack.

The marking of individual circuit components has made possible the inclusion of these parts values on the revised schematic.

CIRCUIT COMPONENTS:

Resistors in the previously reported sets were similar to the U.S. $\frac{1}{2}$ watt carbon type and had a form of body-end-band color coding system. In the newest set, resistors were of the European style having sheet metal end caps with narrow strips of sheet metal for leads. Values were printed directly on the components.

All fixed non-electrolytic capacitors were of the molded "postage stamp" variety. Trimming capacitors were of the ceramic type.

ANTENNA:

The antenna arrangement shown in Fig.8 was the type described by the agent and is only a modification of the type previously reported.

POWER SUPPLY:

The batteries shown in the photos are of North Korean manufacture and were picked up with the latest set. Due to their poor quality four 80/60 volt batteries were supplied, giving the set higher than normal no-load ~~B~~ voltages (310V-300V-160V), so that when load was applied the voltages would drop to approximately the specified values (240V-180V-120V).

The 3 volt "A" supply was made up of four $1\frac{1}{2}$ volt cells connected in series-parallel.

MISCELLANEOUS:

DATA BOOK: Figures 3 thru 6 are photos of the data book normally supplied with each "Saberu" radio. Page 1 contains information on the length and jack placement of the antenna for various frequencies. Page 2 is the individually calibrated receiver tuning chart. Pages 3 and 4 are the individually calibrated transmitter tuning charts. The figures on the back cover are scribbled notes indicating the wavelength of the two crystals included with this particular set.

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CHASSIS NUMBERS AND TUBE MARKS:

	Chassis Number	Tube Markings
Set picked up in Fall of 1952 (Model 2)	13533.5	II-43 and IV-50
Set picked up in Winter of 1952 (Model 1)	6577.5	I-44 and IV-50
Set picked up in Fall of 1953 (Model 1)	9600.5	XI-52 and XII-52

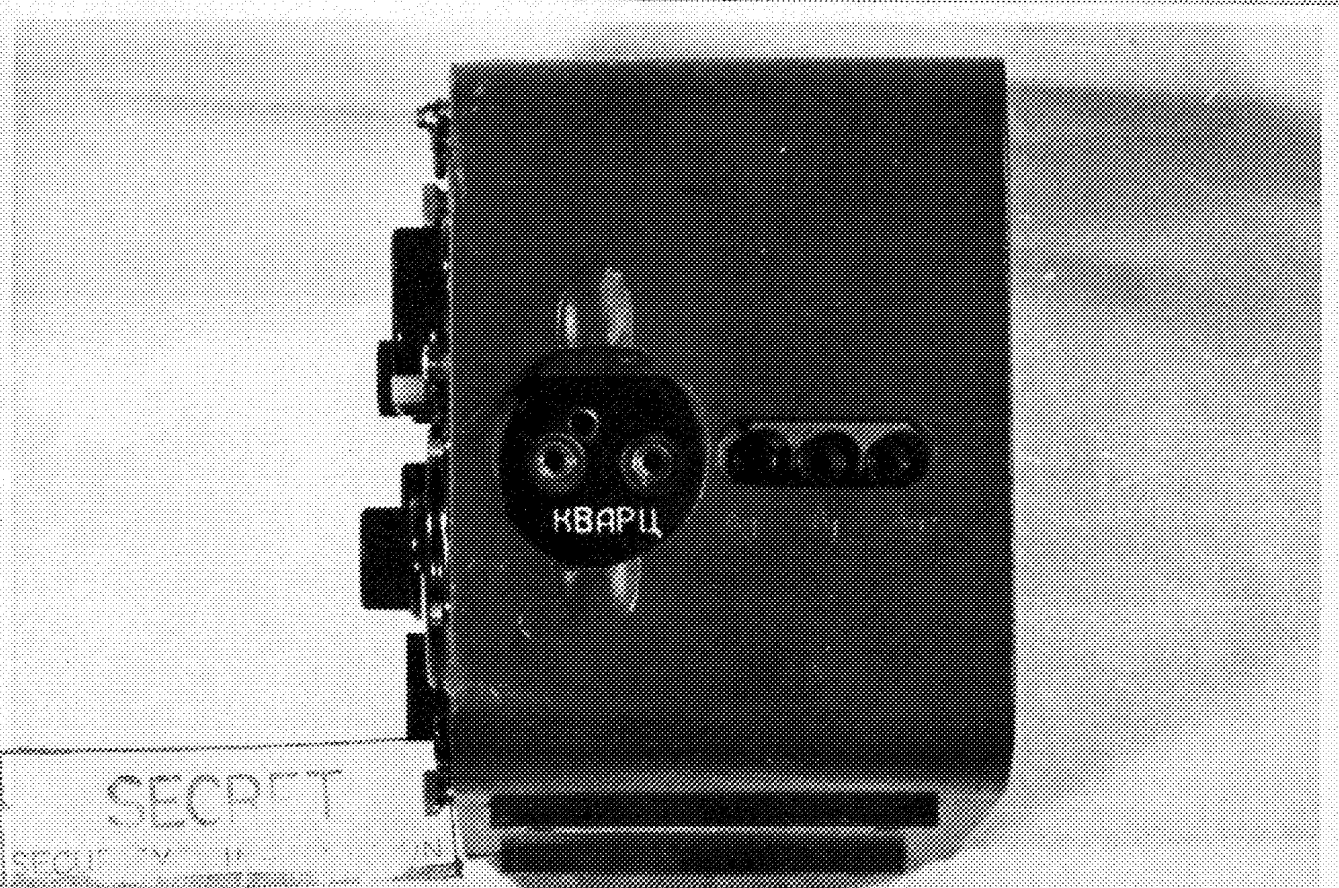
Note: The tube markings possibly indicate manufacture date.

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FIG. 1 FRONT VIEW



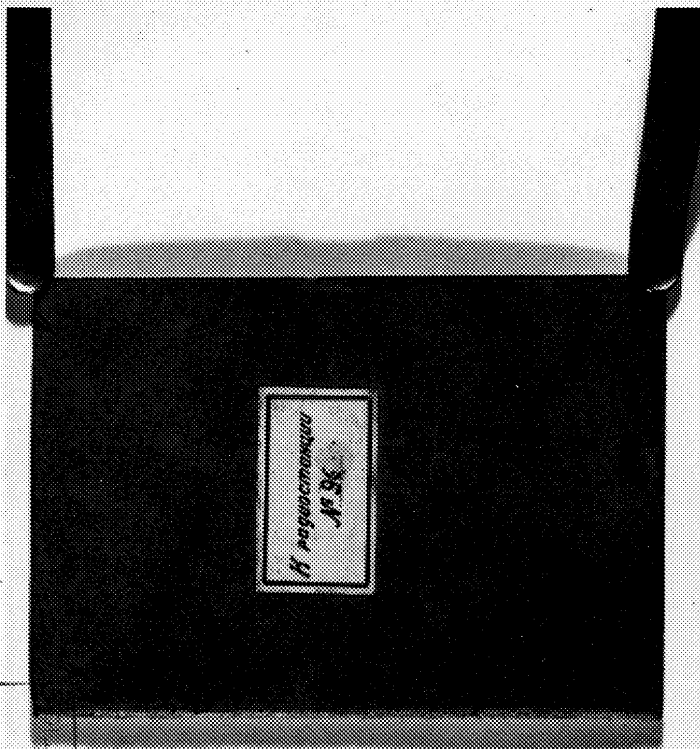
FIG. 2 SIDE VIEW



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FIG. 3

FRONT COVER OF "SABERU" DATA BOOK



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FIG. 4

PAGES 1 & 2 OF DATA BOOK: PAGE 1: INFO. ON ANTENNA LENGTH AND JACK PLACEMENT FOR FREQS. WITHIN TUNING RANGE OF SET. PAGE 2: RECEIVER TUNING CHART, BANDS I & II

PAGE 2

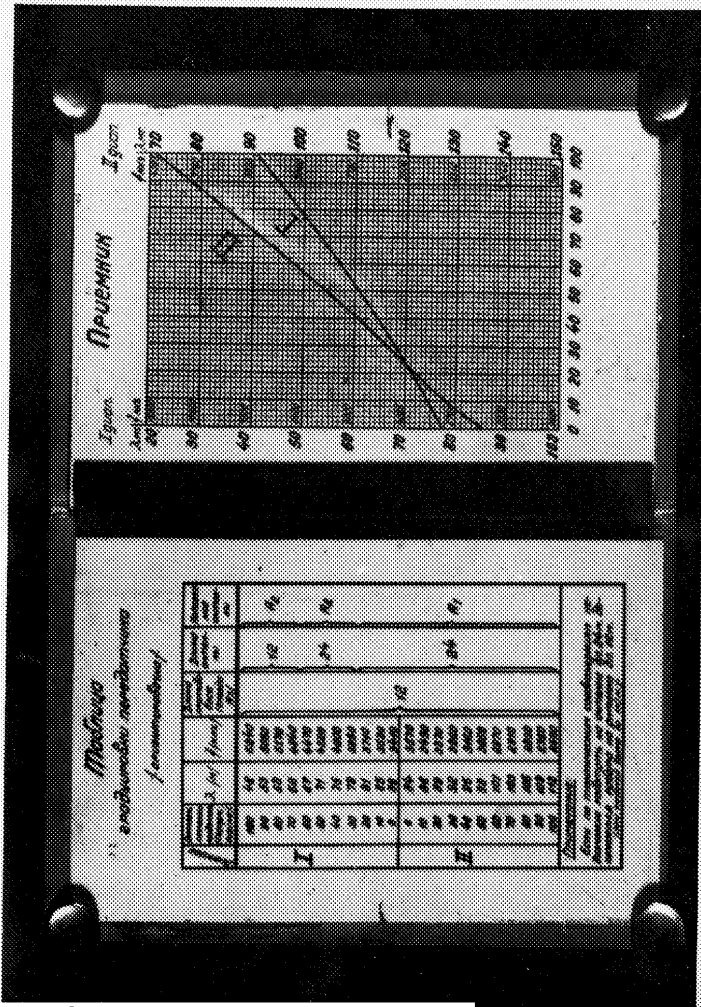


FIG. 5

PAGES 3& 4 OF DATA BOOK:
PAGE 3: TRANSMITTER TUNING CHART, BAND I
PAGE 4: TRANSMITTER TUNING CHART, BAND II

FIG. 6

REAR COVER OF DATA BOOK

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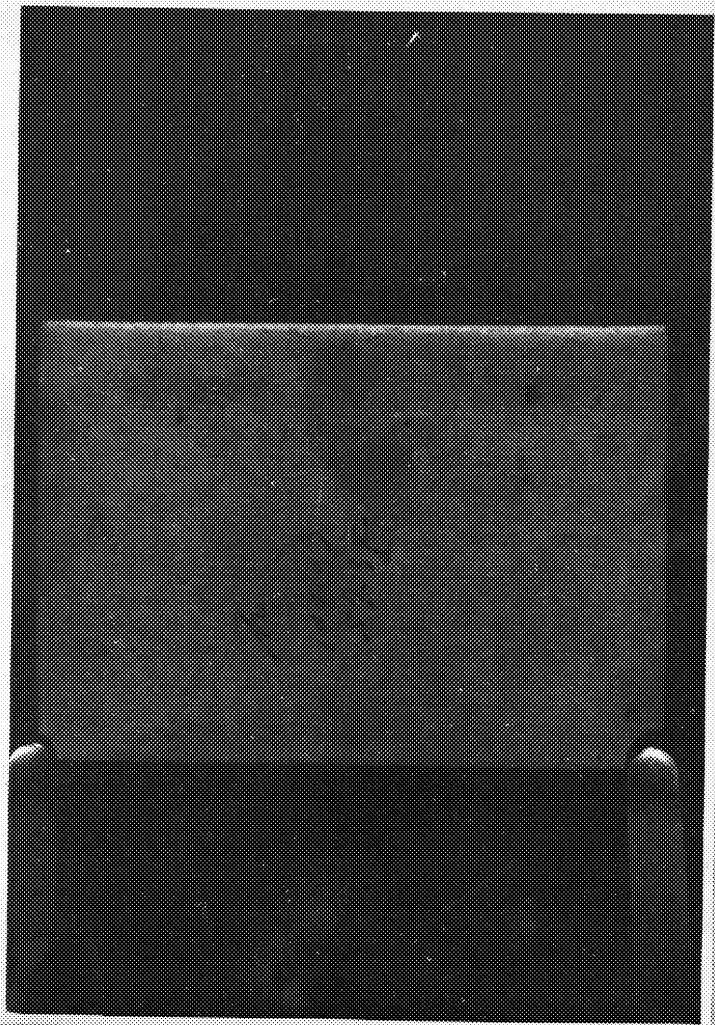
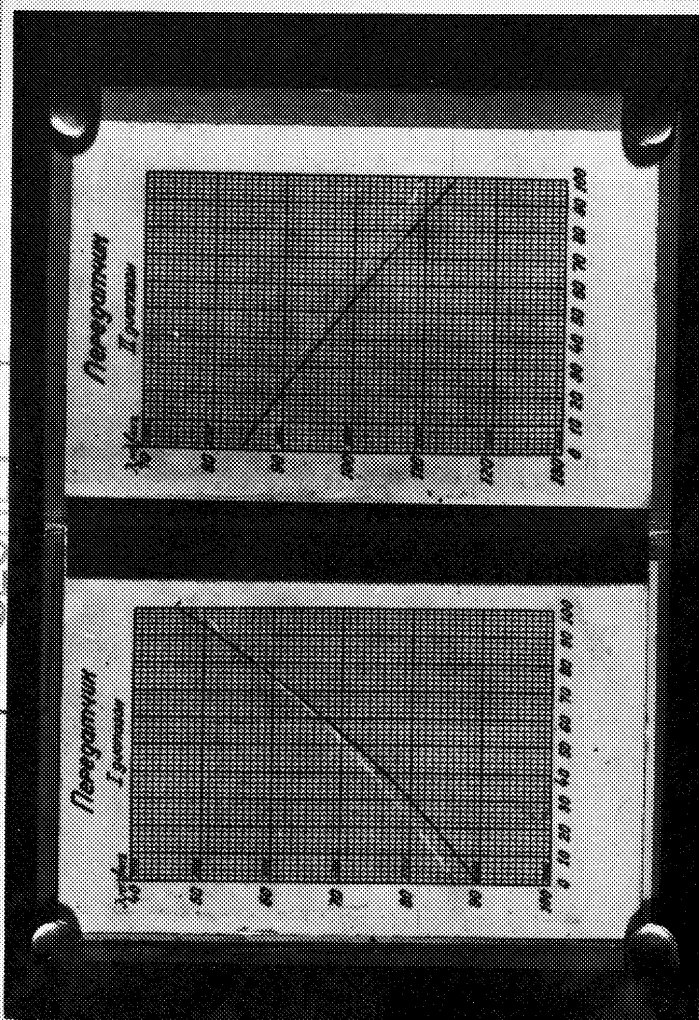
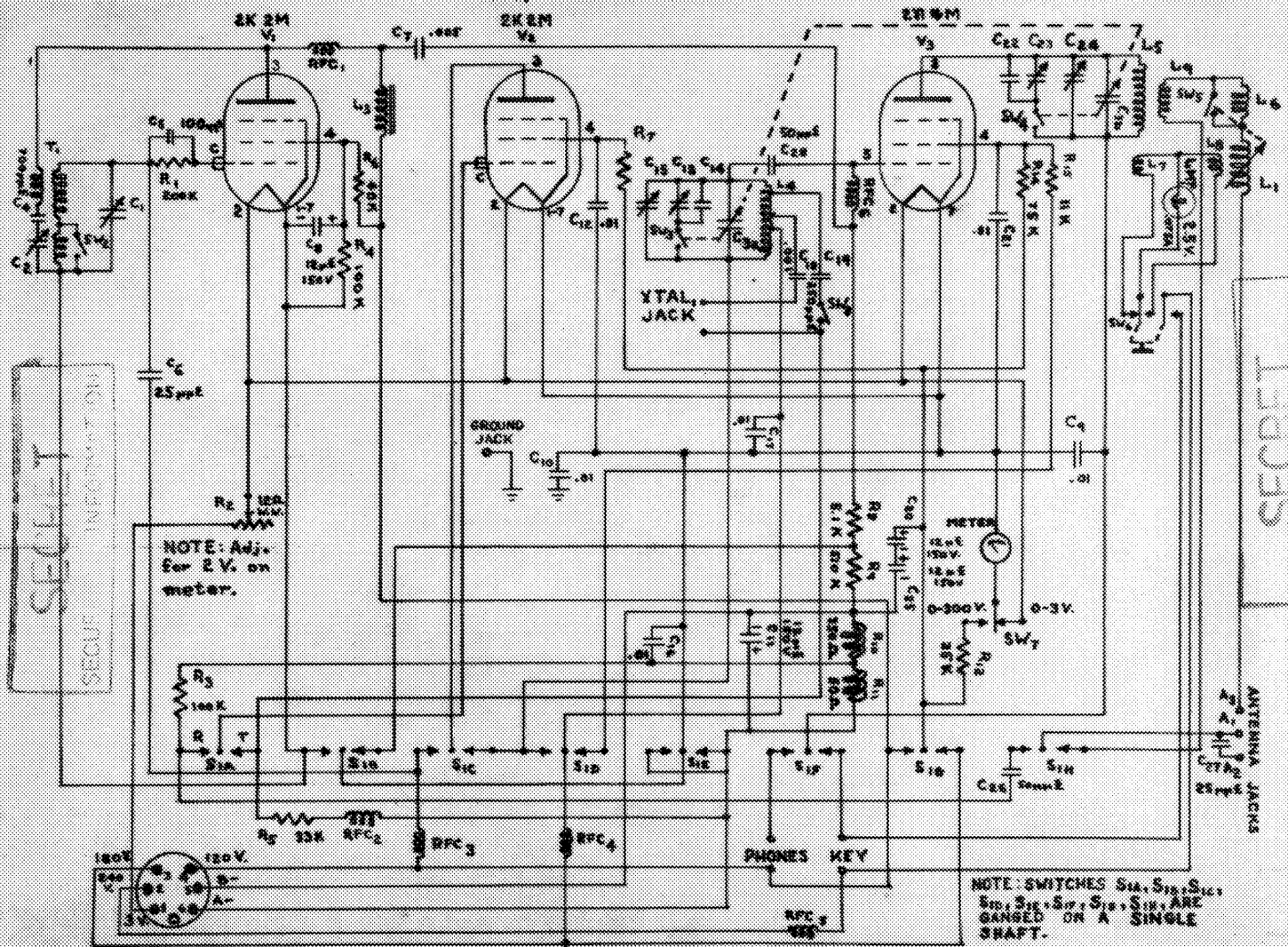


FIG. 7 SCHEMATIC DIAGRAM



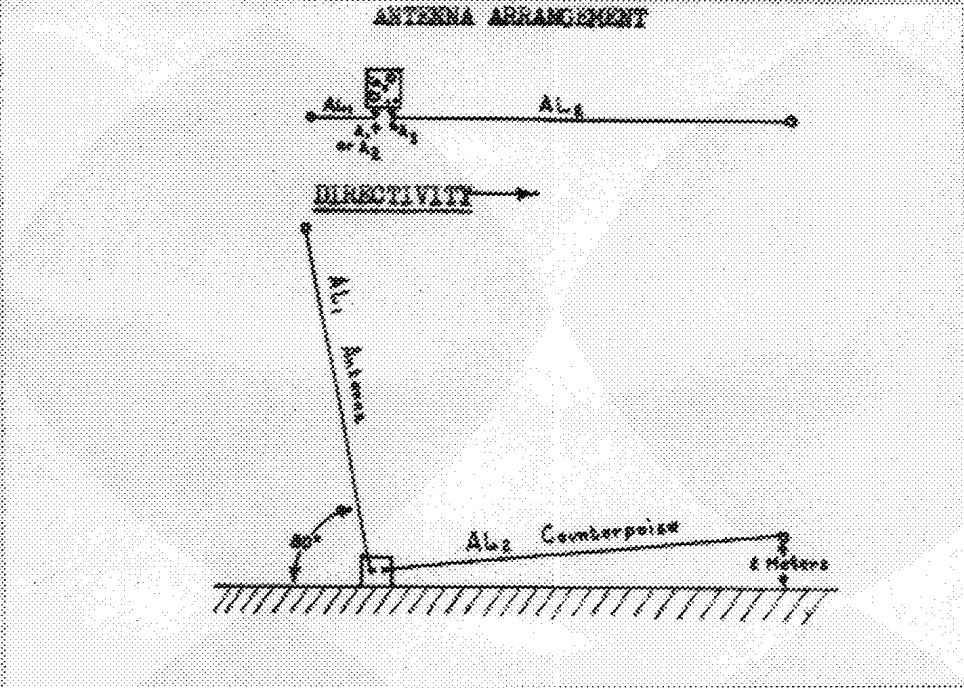
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FIG. 8

ANTENNA ARRANGEMENT



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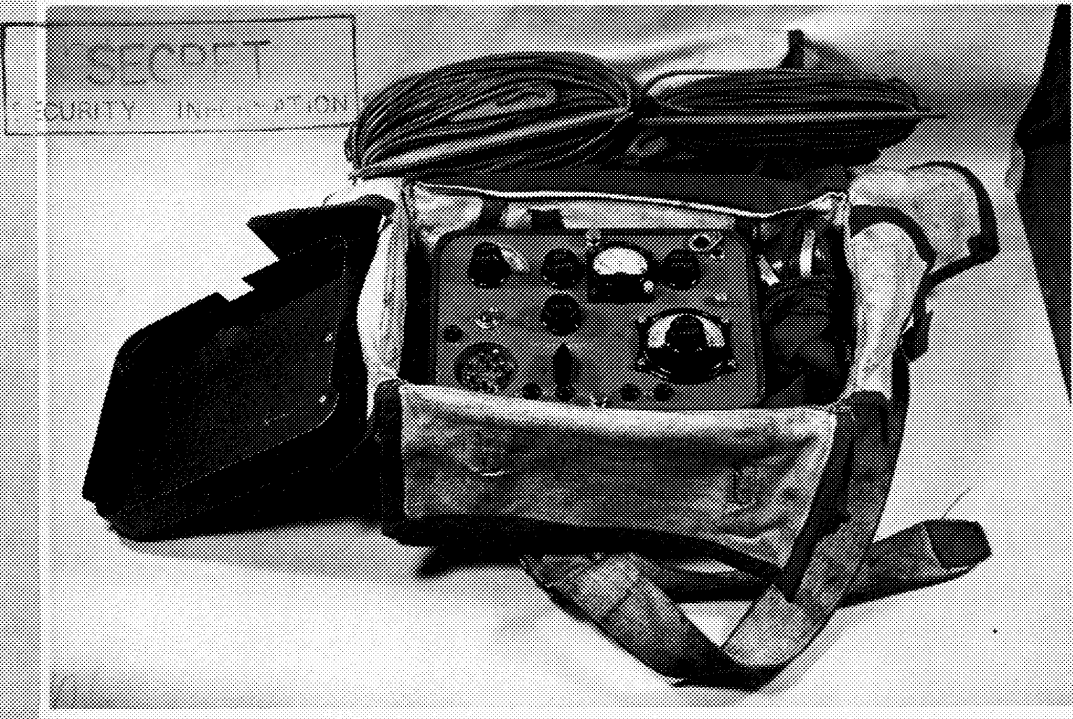
SPARE PARTS AND ACCESSORIES



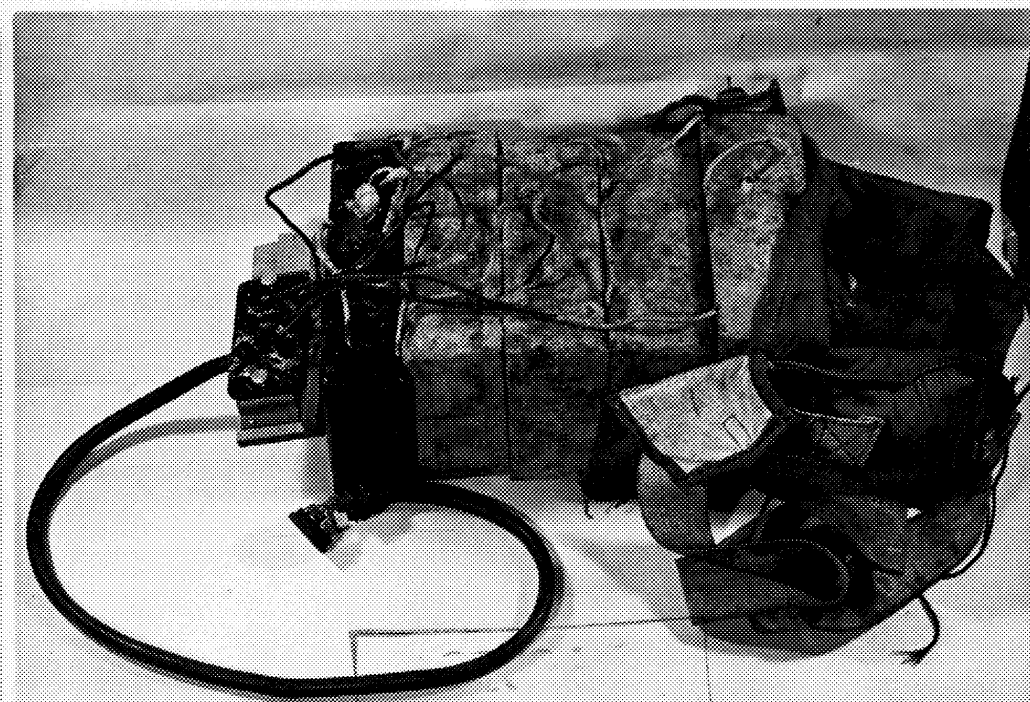
STATION ARRANGEMENT



SET PACKED IN CARRYING BAG



BATTERY PACK WITH CARRYING BAG



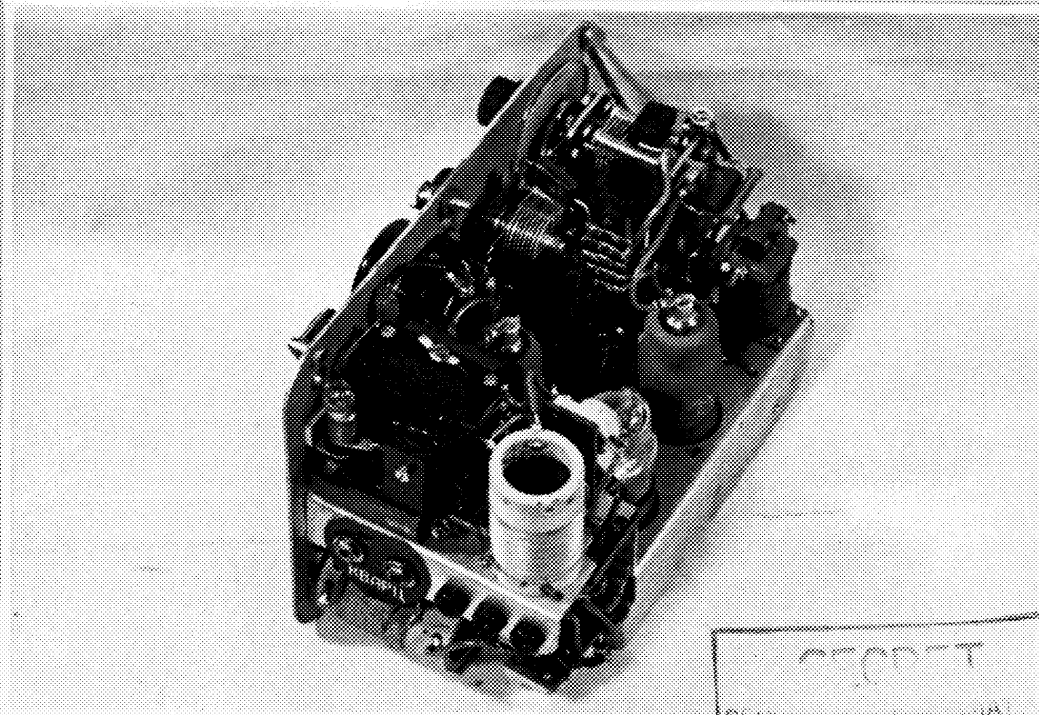
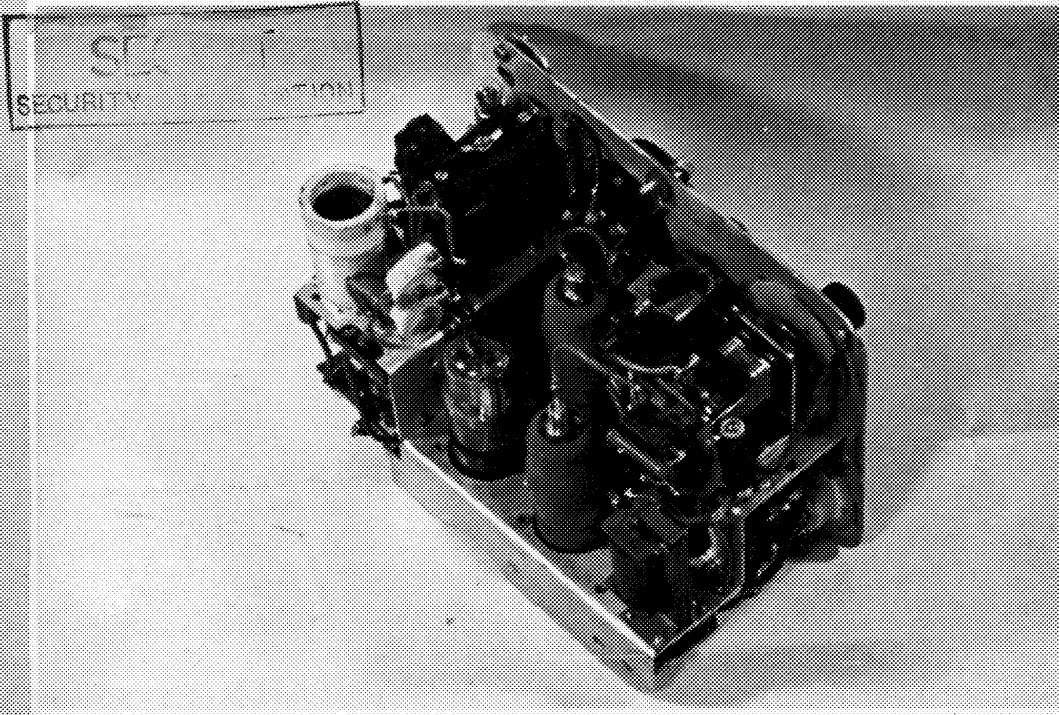
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TYPICAL "B" BATTERY



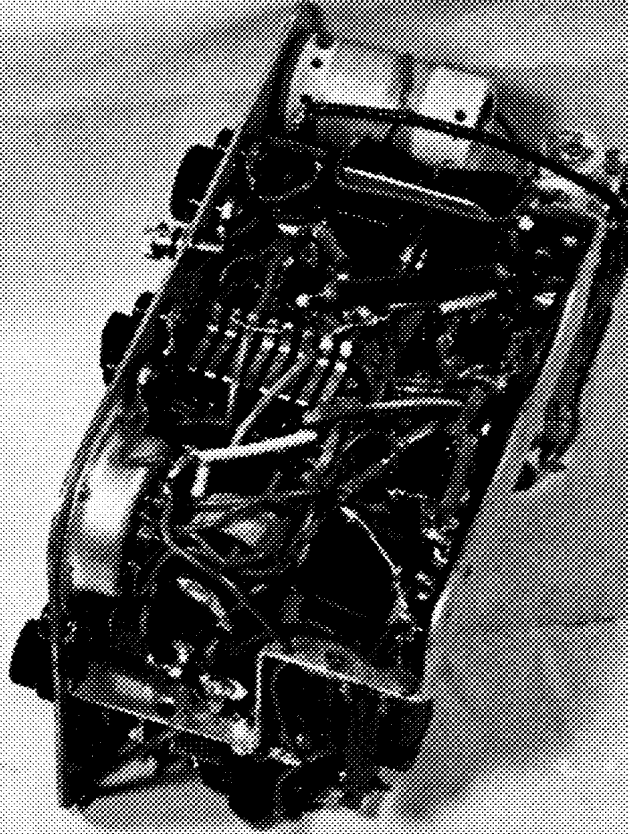
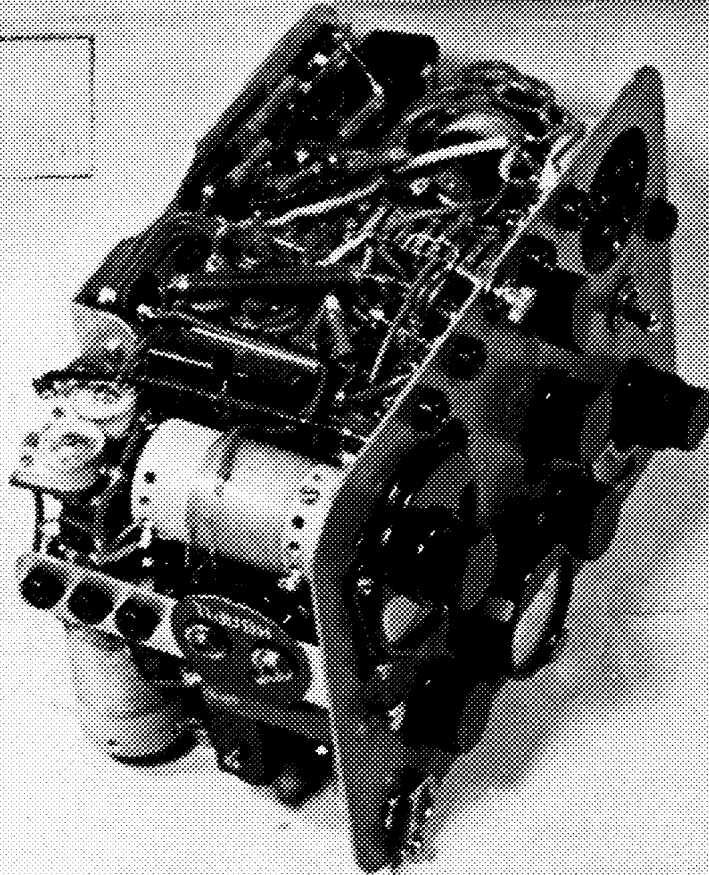
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TOP CHASSIS VIEWS



UNDER CHASSIS VIEWS

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ROUTING AND RECORD SHEET

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INSTRUCTIONS: Officer designations should be used in the "TO" column. Under each comment a line should be drawn across sheet and each comment numbered to correspond with the number in the "TO" column. Each officer should initial (check mark insufficient) before further routing. This Routing and Record Sheet should be returned to Registry. 18 DEC 1953

FROM: OFFICE OF COMMUNICATIONS ROOM 2024 BUILDING EYE

NO. 164

DATE 30 Nov 53

25X1

TO	ROOM NO.	DATE		OFFICER'S INITIALS	COMMENTS
		REC'D	FWD'D		
1. OC-E		23 Nov, 22 00	13-4158	BBB	<p>ACTION</p> <p>1-2:</p> <p>Check to see whether Ops has had a look. If not, give to Yacow for fast shuttle thru OC-S; T before sending to Lab.</p> <p>Would be interested in having Lab make ^{very} brief "report" on this report; i.e. Probable capabilities of set, antenna, etc.</p> <p>BBB</p> <p>FOR</p>
2. RFD					
3.					
4. UCD	Mr. Yacow	JUN 29 1954	FEB 9 1954	BBB	
5. OC-E		2-11		BBB	
6. RFD					
7. RFD Lab		5-7-54		BBB	
8.					
9.					
10. CH	DEP	BBB	TIP-4	BBB	
11. RR	RR	BBB	BBB	BBB	
12. RR	RR	BBB	BBB	BBB	
13. RR	RR	BBB	BBB	BBB	
14. RR	RR	BBB	BBB	BBB	
15.					

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