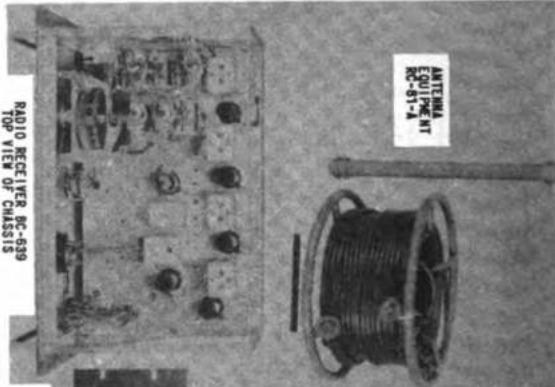
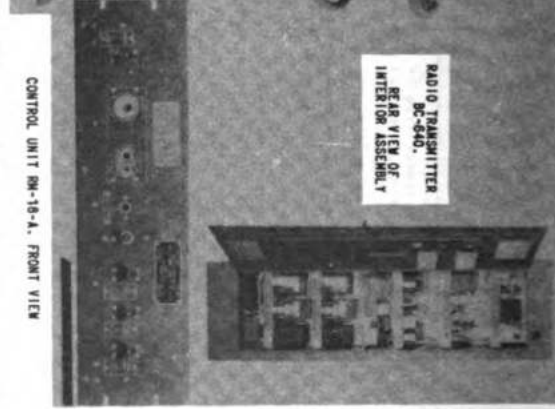



SCR-637		NOMENCLATURE DESIGNATION	NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.		STATUS:	INSTRUCTIONAL LITERATURE:																																																																																																			
PART A - TECHNICAL CHARACTERISTICS (CLASSIFICATION: RESTRICTED) FREQUENCY RANGE: (Mc) 100 - 156 NUMBER OF CRYSTALS: 1 IN USE; 2 IN TRANSMITTER STATION 2 IN RECEIVER STATION (FULL XTAL COMPLEMENT TO BE DETERMINED BY AAF). PRESET FREQUENCIES: 2 IN TRANSMITTER STATION, 2 IN RECEIVER STATION (FREQUENCY METER) ANTENNA: VERTICAL DIPOLES MOUNTED ON 50' MAST. TUNING: (MO OR XTAL) TRANSMITTERS XTAL-RECEIVERS VARIABLE. SENSITIVITY: 2-3 v/METER @ 50 MW. SELECTIVITY: 2 TIMES DOWN LESS 100 Kc. 1000 TIMES DOWN MORE 350 Kc. POWER SOURCE: POWER UNIT PE-99 (7½ KVA 110V 3 PHASE 60 CYCLE); ALSO HAS PROVISION FOR OPERATION ON COMMERCIAL POWER FROM A 110V 2 WIRE SERVICE. SIMILAR SETS: SCR-573, SCR-574; ALSO SCR-567. POWER OUTPUT: (WATTS) 50 WATTS FROM TRANSMITTER ½ WATT RECEIVER. TUBE: (TYPE AND NUMBER) SEE NOTE *			PART B - TACTICAL CHARACTERISTICS (CLASSIFICATION: RESTRICTED) USE: FORWARD RELAY STATION FOR GROUND CONTROL OF INTERCEPTOR PURSUIT OPERATIONS. PART OF CONTROL NET SYSTEM SC3-2 PROVIDES 2 INDEPENDENT CHANNELS RECEIVING AND TRANSMITTING FOR EXTENDING THE RANGE OF RADIO SETS SCR-562 AND SCR-563 WHEN USED AS PART OF THE FIGHTER CONTROL SYSTEM. RANGE: (MILES) 135 MILES WITH AIRCRAFT AT 10,000 FT. TO COMMUNICATE WITH: CONTROL SET SCR-561 BY TELEPHONE AND BY RADIO WITH FIGHTER AIRCRAFT EQUIPPED WITH RADIO SET SCR-522. TO REPLACE IN PART: TRANSPORTATION: FIXED TYPE OF SIGNAL: VOICE AND MCW.		CHANGE IN STATUS:																																																																																																				
PART C - PRINCIPAL COMPONENTS (CLASSIFICATION: RESTRICTED)			RADIO RECEIVER RC-639 TOP VIEW OF CHASSIS  RADIO TRANSMITTER RC-640. REAR VIEW OF INTERIOR ASSEMBLY  CONTROL UNIT RM-18-A. FRONT VIEW  <p>*TUBES: (TYPE AND NUMBER) RA-42: 1-5V4; BC-686: 3-2516; BC-638-A: 1-5Y4; 1-9002; 2-9003; 1-6L5; 1-6E5; 1-6SK7; BC-630-A: 2-9003; 1-9002; U-6867; 1-6K66T; BC-640: 8-513; U-645; 3-1611; 2-811; 1-807; 5-4X20G; RA #15 Volt Ouwast; 2-6X60T; 1-6X50T; Supradec Tube Test-ER #504-A; 1-71-A; 1-INCH BULB 1/4 EMT. GE TUNER CHANGERS: 6R8, 3381; 1-GE TUNER #18904B.</p>																																																																																																						
<table border="1"> <thead> <tr> <th rowspan="2">ITEM</th> <th colspan="3">DIMENSIONS</th> <th rowspan="2">WEIGHT</th> <th rowspan="2">CLASSIFICATION</th> </tr> <tr> <th>HEIGHT</th> <th>WIDTH</th> <th>DEPTH</th> </tr> </thead> <tbody> <tr> <td>2 POWER UNIT PE-99 EACH</td> <td>55"</td> <td>28"</td> <td>50"</td> <td>1,600 #</td> <td></td> </tr> <tr> <td>2 TRANSMITTERS BC-640 EACH</td> <td>72"</td> <td>21"</td> <td>20"</td> <td>515 #</td> <td></td> </tr> <tr> <td>2 RECEIVERS BC-639 EACH</td> <td>10 1/2"</td> <td>19"</td> <td>13 1/2"</td> <td>36 #</td> <td></td> </tr> <tr> <td>1 FREQUENCY METER BC-638</td> <td>11 1/2"</td> <td>19"</td> <td>7"</td> <td>35 #</td> <td></td> </tr> <tr> <td>2 ANTENNA AN-57 EACH</td> <td>TOTAL 10</td> <td>0</td> <td>0</td> <td>2,500 #</td> <td></td> </tr> <tr> <td>4 ANTENNA EQUIPMENT RC-81 EACH</td> <td>12"</td> <td>28 1/2"</td> <td>38 1/2"</td> <td>4 #</td> <td></td> </tr> <tr> <td>2 CONTROL UNITS RM-18 EACH</td> <td>5"</td> <td>19"</td> <td>8"</td> <td>16 #</td> <td></td> </tr> <tr> <td>2 AMPLIFIER BC-686 EACH</td> <td>12"</td> <td>19"</td> <td>11"</td> <td>36 #</td> <td></td> </tr> <tr> <td>2 RECTIFIER RA-42</td> <td>7"</td> <td>19"</td> <td>8 1/2"</td> <td>26 #</td> <td></td> </tr> <tr> <td>1 FUSE PANEL PN-15</td> <td>5"</td> <td>19"</td> <td>5"</td> <td>24 #</td> <td></td> </tr> <tr> <td>1 FUSE PANEL PN-5</td> <td>7 3/4"</td> <td>19"</td> <td>3 1/2"</td> <td>15 #</td> <td></td> </tr> <tr> <td>1 RELAY UNIT BC-685</td> <td>8 3/4"</td> <td>19"</td> <td>14 1/4"</td> <td>16 #</td> <td></td> </tr> <tr> <td>COMBINED WEIGHT OF COMPONENTS:</td> <td></td> <td></td> <td></td> <td>16,000 #</td> <td>APPROXIMATELY</td> </tr> <tr> <td>COMBINED VOLUME OF COMPONENTS:</td> <td></td> <td></td> <td></td> <td>900 CU.FT.</td> <td>APPROXIMATELY</td> </tr> <tr> <td>SHIP TONNAGE:</td> <td></td> <td></td> <td></td> <td>8 TONS</td> <td>APPROXIMATELY</td> </tr> </tbody> </table>							ITEM	DIMENSIONS			WEIGHT	CLASSIFICATION	HEIGHT	WIDTH	DEPTH	2 POWER UNIT PE-99 EACH	55"	28"	50"	1,600 #		2 TRANSMITTERS BC-640 EACH	72"	21"	20"	515 #		2 RECEIVERS BC-639 EACH	10 1/2"	19"	13 1/2"	36 #		1 FREQUENCY METER BC-638	11 1/2"	19"	7"	35 #		2 ANTENNA AN-57 EACH	TOTAL 10	0	0	2,500 #		4 ANTENNA EQUIPMENT RC-81 EACH	12"	28 1/2"	38 1/2"	4 #		2 CONTROL UNITS RM-18 EACH	5"	19"	8"	16 #		2 AMPLIFIER BC-686 EACH	12"	19"	11"	36 #		2 RECTIFIER RA-42	7"	19"	8 1/2"	26 #		1 FUSE PANEL PN-15	5"	19"	5"	24 #		1 FUSE PANEL PN-5	7 3/4"	19"	3 1/2"	15 #		1 RELAY UNIT BC-685	8 3/4"	19"	14 1/4"	16 #		COMBINED WEIGHT OF COMPONENTS:				16,000 #	APPROXIMATELY	COMBINED VOLUME OF COMPONENTS:				900 CU.FT.	APPROXIMATELY	SHIP TONNAGE:				8 TONS	APPROXIMATELY
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