

## section 3

### operation

#### 3.1 GENERAL

The 242F-9C VHF/UHF Transmitter is a 50-watt, crystal-controlled transmitter designed for ground-to-air communication. The 242F-9C is rated for continuous duty and may be operated under local or remote conditions.

During either local or remote operation, the POWER and PLATE switches must be turned on at the equipment. The keying of the 242F-9C may then be controlled with either a push-to-talk microphone, the key selector switch, or a keying switch at the remote position.

#### 3.2 OPERATING CONTROLS AND INDICATORS

A list of the 242F-9C operating controls and indicators and their functions is shown in table 3-1.

Figure 3-1 shows the location of the front panel controls and indicators. The remaining controls are located on the internal circuit panel.

#### 3.3 OPERATING PROCEDURES

The following procedures should be used for the operation of the 242F-9C.

##### **Caution**

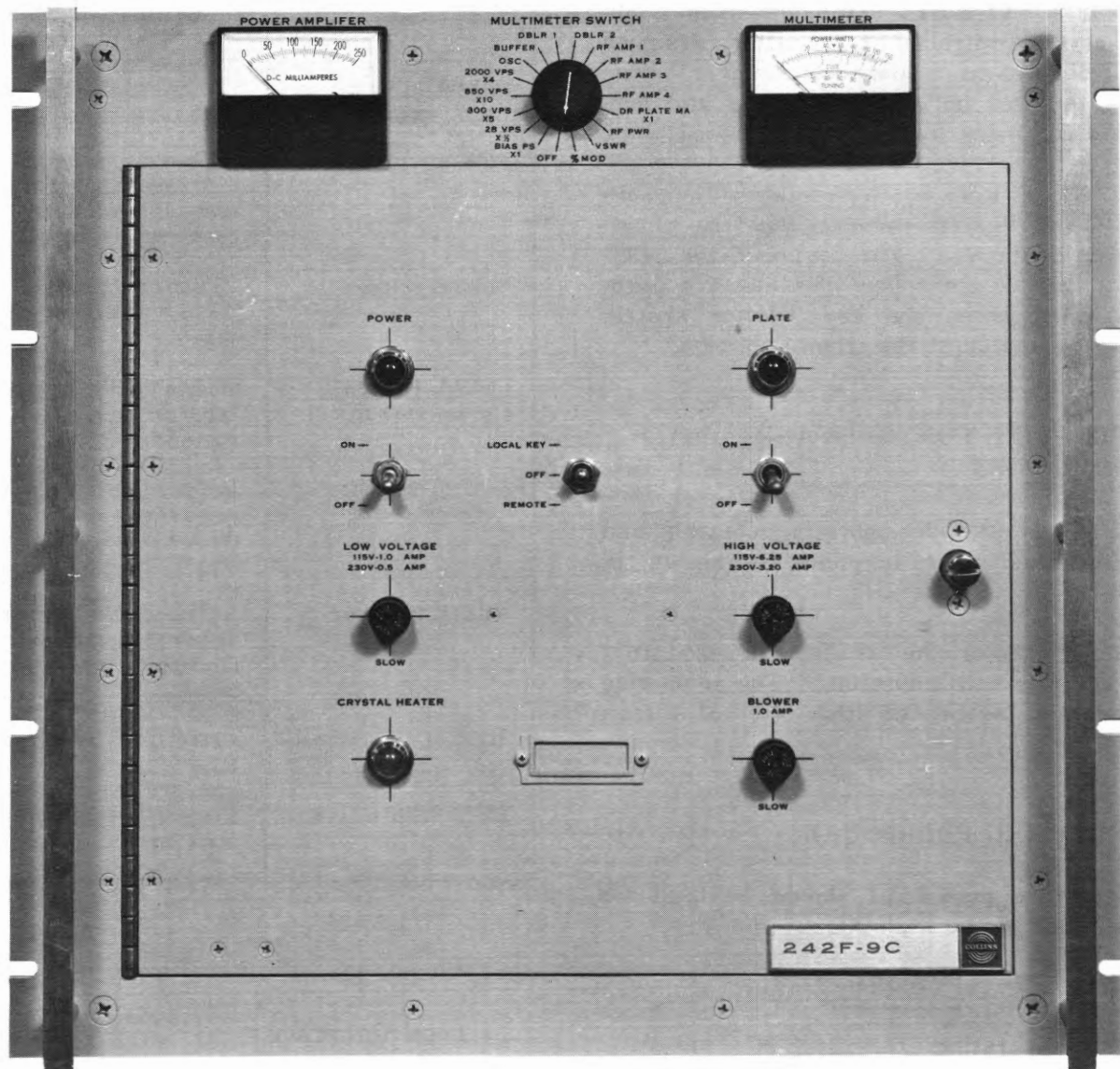
Before operating the 242F-9C, ensure that all connections are secure and that the initial tuning and adjustment procedures prescribed in paragraph 2.7 of this manual have been performed.

Table 3-1. Operating Controls and Indicators and Their Functions.

| CONTROLS/<br>INDICATORS          | FUNCTION                                                                                  |
|----------------------------------|-------------------------------------------------------------------------------------------|
| POWER switch                     | Controls the power to the filaments, crystal oven, and low-voltage power supply circuits. |
| PLATE switch                     | Controls the power to the high-voltage power supply.                                      |
| LOCAL-REMOTE key selector switch | Selects the keying mode for local or remote operation.                                    |
| POWER indicator                  | Indicates when primary ac power is applied to the low-voltage power supply.               |
| PLATE indicator                  | Indicates when primary ac power is applied to the high-voltage power supply.              |
| AUDIO GAIN control               | Controls the audio input level.                                                           |
| MIKE GAIN control                | Controls the microphone input level.                                                      |

##### 3.3.1 Local Operation

- Position key selector switch to OFF.
- Position POWER switch to ON.
- Position PLATE switch to ON.

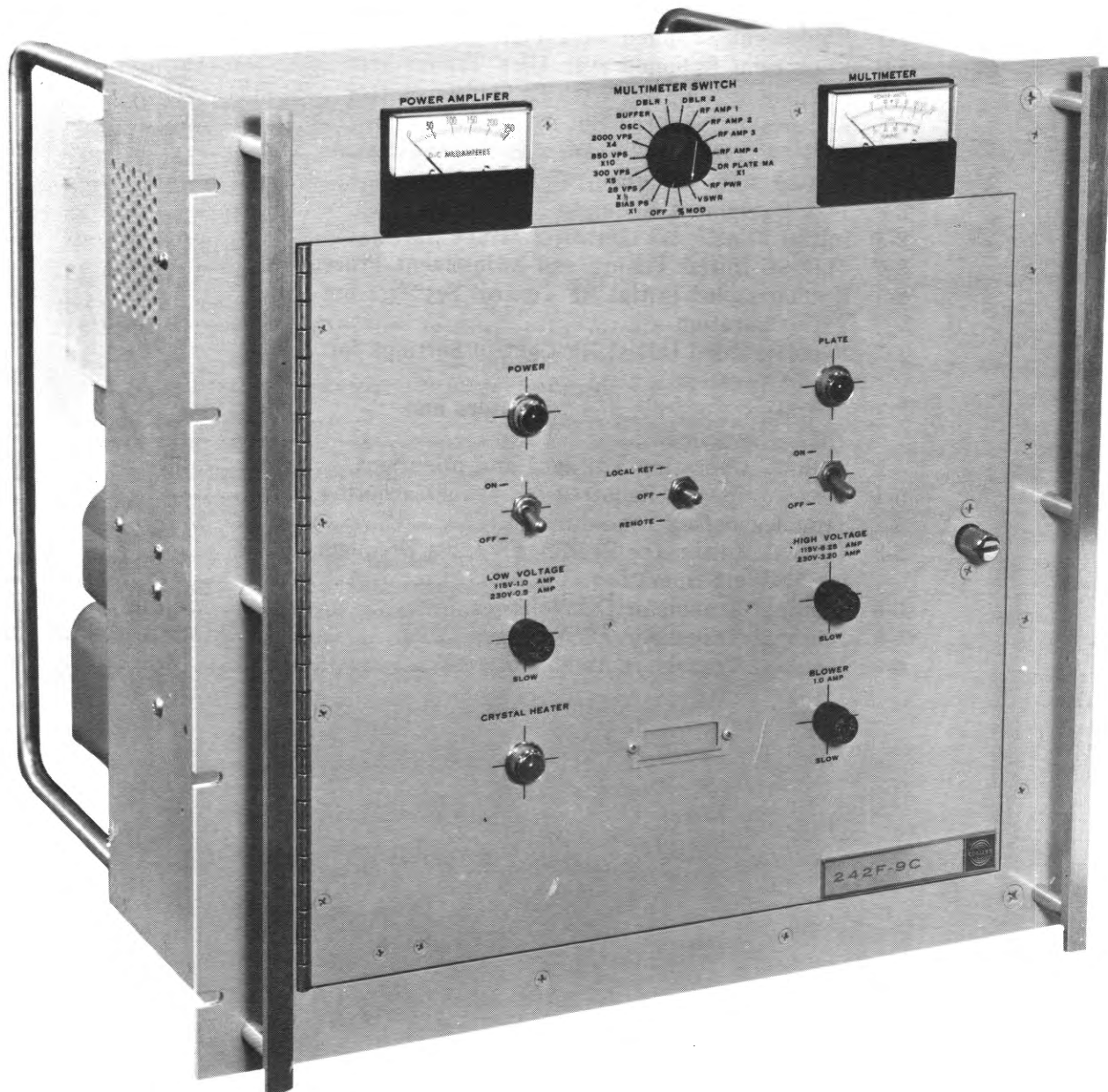


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Figure 3-1. 242F-9C VHF/UHF Transmitter, Location of Operating Controls and Indicators.

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Figure 1-1. 242F-9C VHF/UHF Transmitter.

GROUP ASSEMBLY PARTS LIST

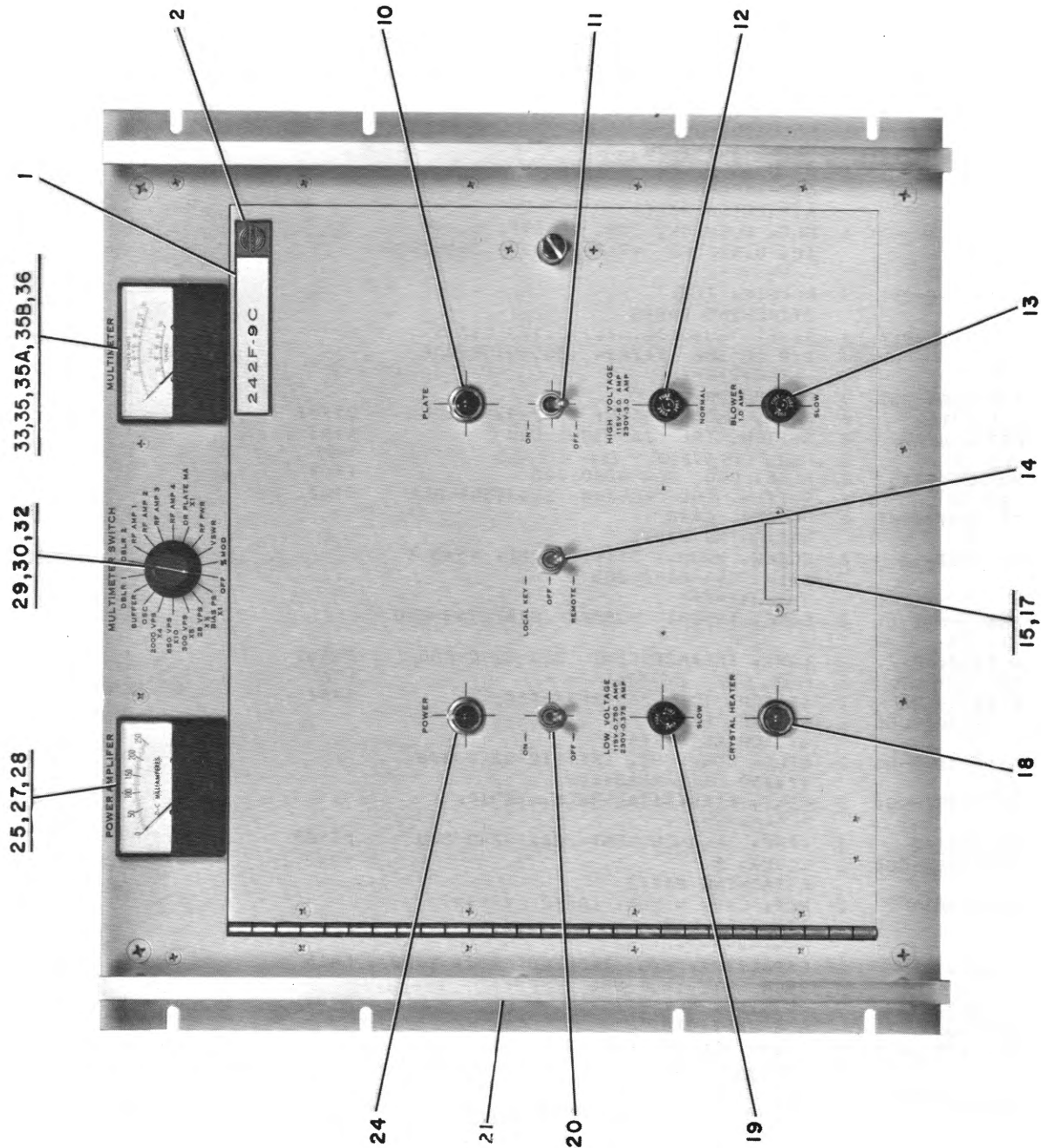


Figure 6-1. 242F-9C Radio Transmitter (Sheet 1 of 7)

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parts list

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.               | INDENT. | NOMENCLATURE                                                                        | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|------------------------|---------|-------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 1 - 0       | 522-4646-001           | 1       | 242F-9C RADIO TRANSMITTER                                                           | 1                     | A             |
| - 0            | 522-4646-002           | 1       | 242F-9C RADIO TRANSMITTER                                                           | 1                     | B             |
| 1              | 757-6963-001           | 2       | PLATE, DESIGNATION                                                                  | 1                     |               |
| 2              | 763-3180-001           | 2       | HCLDER, IDENT PL                                                                    | 1                     |               |
| - 3            |                        | 1       | DELETED                                                                             |                       |               |
| 4              | 767-6021-001           | 2       | COVER ASSY, DR                                                                      | 1                     |               |
| 5              | 15S1-1-1AC             | 3       | STUD ASSY, PB V71286<br>012-3350-000<br>ATTACHING PARTS                             | 1                     |               |
| - 6            | 15S11-2AE              | 3       | NUT, PUSH ON, CAD. PL STL, 0.295<br>ID, 0.520 OD V71286 012-3366-000<br>-----*----- | 1                     |               |
| 7              | 763-1598-001           | 3       | HCLDER, TOOL<br>ATTACHING PARTS                                                     | 1                     |               |
| - 8            | R4012X1-8PLA<br>IN     | 3       | RIVET, TUBULAR, AL, 0.123 DIA X<br>1/8 LG SHK V12014 305-0189-000<br>-----*-----    | 2                     |               |
| 9              | 763-1469-001           | 3       | COVER, DR                                                                           | 1                     |               |
| 10             | MS15571-2              | 2       | LAMP, INCANDESCENT 262-3240-000 DS402                                               | 1                     |               |
| 11             | MS35058-22             | 2       | SWITCH, TGL 266-3005-000 S403                                                       | 1                     |               |
| 12             | 3136-25                | 2       | FUSE, CTG V71400 264-0219-000 F401                                                  | 1                     |               |
| 13             | F02B250V1AS            | 2       | FUSE, CTG 264-4280-000 F403                                                         | 1                     |               |
| 14             | 83244A                 | 2       | SWITCH, TGL V04009 266-5394-010 S402                                                | 1                     |               |
| 15             | 757-6977-001           | 2       | HCLDER, CARD<br>ATTACHING PARTS                                                     | 1                     |               |
| - 16           | MS51957-12             | 2       | SCREW, MACH., SST, PAN HD, 4-40 X<br>3/16 343-0132-000<br>-----*-----               | 2                     |               |
| 17             | 690 5-8X1 11<br>-16WHT | 2       | CARD, INSERT V25828 015-2963-020                                                    | 1                     |               |
| 18             | MS15571-2              | 2       | LAMP, INCANDESCENT 262-3240-000 DS401                                               | 1                     |               |
| 19             | F02B250V1AS            | 2       | FUSE, CTG 264-4280-000 F402                                                         | 1                     |               |
| 20             | MS35059-22             | 2       | SWITCH, TGL 266-3088-000 S401                                                       | 1                     |               |
| 21             | 757-6983-001           | 2       | HANDLE, PNL<br>ATTACHING PARTS                                                      | 2                     |               |
| - 22           | P312-0113-00<br>0      | 2       | STUD, CONT THD, SST, 10-32 X 5/8<br>V77250 312-0113-000                             | 3                     |               |
| - 23           | 757-6982-001           | 2       | POST, ELECTRICAL-MECH. EQUIP.<br>-----*-----                                        | 3                     |               |
| 24             | MS15571-2              | 2       | LAMP, INCANDESCENT 262-3240-000 DS403                                               | 1                     |               |
| 25             | 763-1550-001           | 2       | COVER, M<br>ATTACHING PARTS                                                         | 1                     |               |
| - 26           | NC1032NAT              | 2       | NUT, CAP, NYLON, 10-32 V95987<br>334-2721-070<br>-----*-----                        | 2                     |               |
| 27             | CK60AW102M             | 2       | CAPACITOR, FXD, 1000 UUF 20%, 1000 VDCW 913-1186-000 C415                           | 1                     |               |
| R 28           | 50-157-111<br>CYCY1JBA | 2       | AMMETER, DC V97424 458-0807-010 M401                                                | 1                     |               |
| 29             | 763-1553-001           | 2       | COVER, ELECTRICAL SW<br>ATTACHING PARTS                                             | 1                     |               |
| - 29A          | 541-6004-002           | 2       | SPACER, SLV                                                                         | 2                     |               |
| - 29B          | 310-0045-000           | 2       | WASHER, FLAT, SST, 0.125ID, 0.312<br>OD/COML/                                       | 2                     |               |
| - 29C          | MS35338-136            | 2       | WASHER, LOCK, SST, 0.141ID, 0.253<br>OD 310-0282-000<br>-----*-----                 | 2                     |               |

GROUP ASSEMBLY PARTS LIST

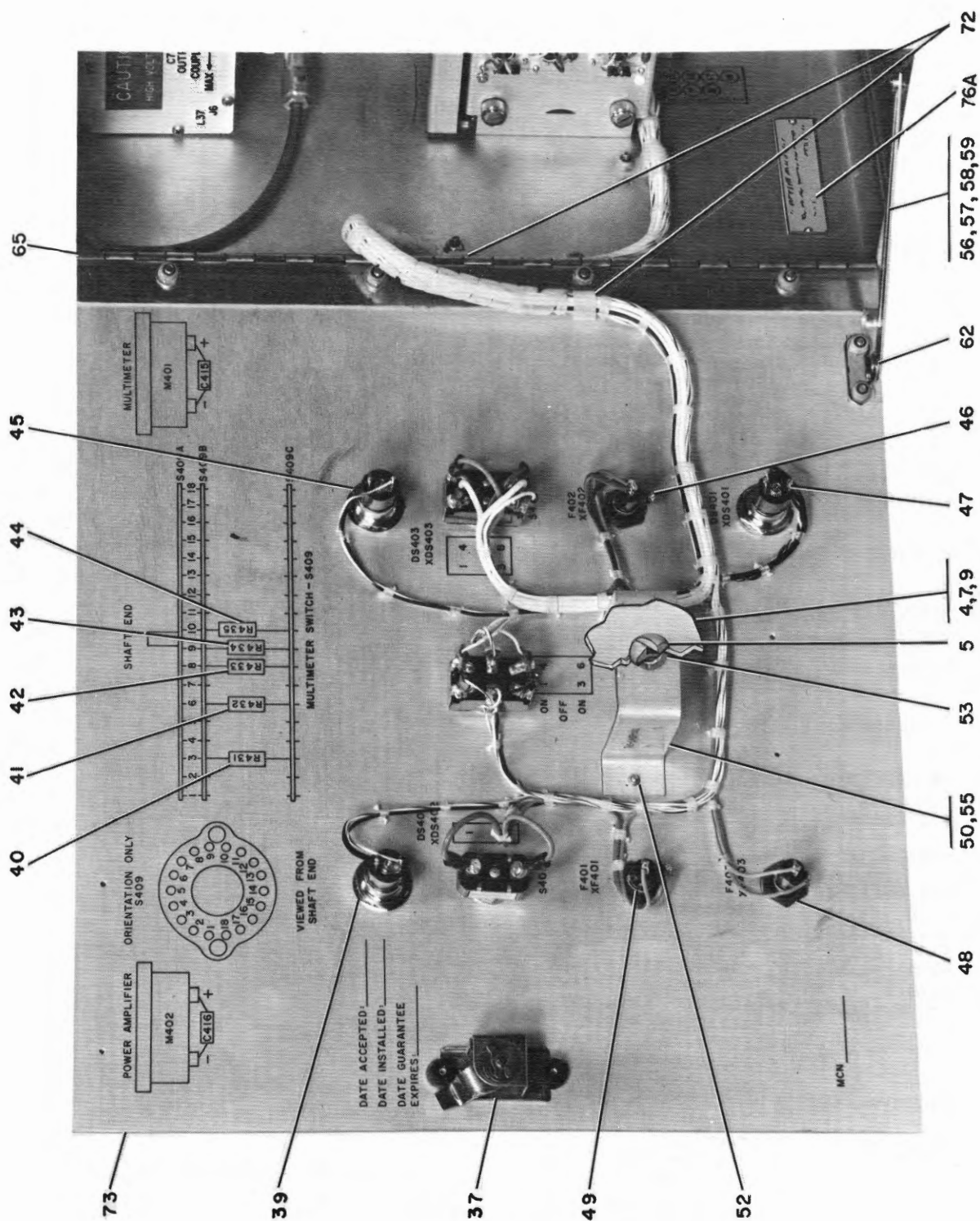


Figure 6-1. 242F-9C Radio Transmitter (Sheet 2 of 7)

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parts list

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.     | INDENT. | NOMENCLATURE                                                                                                                                       | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|--------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 1 30        | 757-0229-014 | 2       | KNOB ASSY, RD, BLK, SKIRTED                                                                                                                        | 1                     |               |
| - 31           | MS51963-33   | 2       | ATTACHING PARTS<br>SETSCREW, CAD. PL STL, 8-32 X 1/8<br>328-5042-000<br>-----*-----                                                                | 1                     |               |
| 32             | 260058LK3    | 2       | SWITCH, RD., V76854 259-2569-010 S409                                                                                                              | 1                     |               |
| 33             | 763-1550-001 | 2       | COVER, M                                                                                                                                           | 1                     |               |
| - 34           | NC1032NAT    | 2       | ATTACHING PARTS<br>NUT, CAP, NYLON, 10-32 V95987<br>334-2721-070<br>-----*-----                                                                    | 2                     |               |
| 35             | CK60AW102M   | 2       | CAPACITOR, FXD, 1000 UUF 20%, 1000 C416                                                                                                            | 1                     |               |
| R 35A          | 1N2612       | 2       | VDCW 913-1186-000                                                                                                                                  | 1                     |               |
| R 35B          | 3189         | 2       | SEMICONV DEVICE 353-1907-000 CR413<br>EFF MCN 161 SB 1                                                                                             | 3                     |               |
| R 36           | 50-157111K   | 2       | TERMINAL, LUG V00779                                                                                                                               | 1                     |               |
| 37             | DKD1JAX      | 2       | 304-0245-000 EFF MCN 161 SB 1                                                                                                                      | 1                     |               |
| 37             | 44-1-10-1    | 2       | AMMETER, DC V97424 M402                                                                                                                            | 1                     |               |
| - 38           | MS51959-15   | 2       | 476-0443-010<br>FASTENER, PNL V94222<br>015-1026-000<br>ATTACHING PARTS<br>SCREW, MACH., CRES, FH, 4-40 X 3/8<br>342-0046-000<br>-----*-----       | 2                     |               |
| 39             | 55410-111-30 | 2       | LIGHT, IND V72619 262-9001-020 XDS402                                                                                                              | 1                     |               |
| 40             | RN65D1C04F   | 2       | RESISTOR, FXD, 1 MEG 1%, 1/2 W R431<br>705-7240-000                                                                                                | 1                     |               |
| R 41           | RN65D8660F   | 2       | RESISTOR, FXD, 866 OHMS 1%, 1/2 W R432<br>705-7093-000 EFF THRU MCN 160<br>SB 1                                                                    | 1                     |               |
| R 41           | RN65D3163F   | 2       | RESISTOR, FXD, 316,000 OHMS 1%, R432<br>1/2 W 705-7216-000                                                                                         | 1                     |               |
| 42             | RN65D1472F   | 2       | EFF MCN 161 SB 1                                                                                                                                   | 1                     |               |
| 43             | RN65D6812F   | 2       | RESISTOR, FXD, 14,700 OHMS 1%, 1/2 R433<br>W 705-7152-000                                                                                          | 1                     |               |
| 44             | RN65D9092F   | 2       | RESISTOR, FXD, 68,100 OHMS 1%, 1/2 R434<br>W 705-7184-000                                                                                          | 1                     |               |
| 45             | 55410-112-30 | 2       | RESISTOR, FXD, 90,900 OHMS 1%, 1/2 R435<br>W 705-7190-000                                                                                          | 1                     |               |
| 46             | HKPH         | 2       | LIGHT, IND V72619 262-9001-000 XDS403                                                                                                              | 1                     |               |
| 47             | 55410-113-30 | 2       | FUSEHOLDER V71400 265-1171-000 XF402                                                                                                               | 1                     |               |
| 48             | HKPH         | 2       | LIGHT, IND V72619 262-9001-010 XDS401                                                                                                              | 1                     |               |
| 49             | HKPH         | 2       | 1                                                                                                                                                  | 1                     |               |
| 50             | 761-8267-001 | 2       | FUSEHOLDER V71400 265-1171-000 XF403                                                                                                               | 1                     |               |
| - 51           | MS51959-15   | 2       | FUSEHOLDER V71400 265-1171-000 XF401<br>BRACKET, COV, PRSD<br>ATTACHING PARTS<br>SCREW, MACH., CRES, FH, 4-40 X 3/8<br>342-0046-000<br>-----*----- | 2                     |               |
| 52             | F22NCFMA2-40 | 3       | NUT, SELF-LKG, CLINCH, CAD. PL                                                                                                                     | 2                     |               |
| 53             | 15R1-1AC     | 3       | STL, 4-40 V72962 333-0840-000                                                                                                                      | 1                     |               |
| - 54           | 15R10-1AC    | 3       | RECEPTACLE, PB V71286<br>012-3365-000<br>ATTACHING PARTS<br>NUT, PLAIN, HEX., CAD. PL STL,<br>15/32-32 V71286 012-3367-000<br>-----*-----          | 1                     |               |
| 55             | 757-6990-001 | 3       | BRACKET, COV                                                                                                                                       | 1                     |               |
| 56             | 761-8255-001 | 2       | SUPPORT, DR, PRSD                                                                                                                                  | 1                     |               |
| 57             | 757-4034-001 | 3       | WASHER, FLAT, CRES, 0.093 ID,<br>0.375 OD /COML/                                                                                                   | 1                     |               |
| 58             | 61-972RH     | 3       | SUPPORT, LID V42689 015-0025-000                                                                                                                   | 1                     |               |

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.     | INDENT. | NOMENCLATURE                                                                                           | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|--------------|---------|--------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 1 59        | 763-1737-001 | 3       | POST, SPL<br>ATTACHING PARTS                                                                           | 1                     |               |
| - 60           | MS21044D06   | 3       | NUT, SELF-LKG, HEX., ANOD AL, 6-32<br>333-0368-000                                                     | 2                     |               |
| - 61           | MS51959-30   | 3       | SCREW, MACH., CRES, FH, 6-32 X 1/2<br>342-0064-000<br>-----*-----                                      | 2                     |               |
| 62             | 763-1706-001 | 2       | SPRING, LATCH<br>ATTACHING PARTS                                                                       | 1                     |               |
| - 63           | MS21044D06   | 2       | NUT, SELF-LKG, HEX., ANOD AL, 6-32<br>333-0368-000                                                     | 2                     |               |
| - 64           | MS51959-30   | 2       | SCREW, MACH., CRES, FH, 6-32 X 1/2<br>342-0064-000<br>-----*-----                                      | 2                     |               |
| 65             | 015-2983-010 | 2       | HINGE, BUTT<br>ATTACHING PARTS                                                                         | 1                     |               |
| - 66           | 68NM82       | 2       | NUT, SELF-LKG, HEX., ANOD AL, 8-32<br>V72962 33-0381-000                                               | 4                     |               |
| - 67           | 310-0048-000 | 2       | WASHER, FLAT, CRES, 0.172 ID,<br>0.437 OD /CCML/                                                       | 4                     |               |
| - 68           | MS51959-45   | 2       | SCREW, MACH., CRES, FH, 8-32 X 1/2<br>342-0080-000                                                     | 4                     |               |
| - 69           | 68NM82       | 2       | NUT, SELF-LKG, HEX., ANOD AL, 8-32<br>V72962 333-0381-000                                              | 4                     |               |
| - 70           | 310-0048-002 | 2       | WASHER, FLAT, CRES, 0.172 ID,<br>0.437 OD /COML/                                                       | 4                     |               |
| - 71           | MS35216-41   | 2       | SCREW, MACH., CRES, PAN HD, 8-32 X<br>7/16 343-0188-000<br>-----*-----                                 | 4                     |               |
| 72             | HP7N         | 2       | CLAMP, LOOP V09922 150-1544-00                                                                         | 2                     |               |
| 73             | 757-6984-001 | 2       | PANEL, DR                                                                                              | 1                     |               |
| 74             | 757-6985-001 | 2       | PANEL, FR<br>ATTACHING PARTS                                                                           | 1                     |               |
| - 75           | 757-6978-002 | 2       | SCREW, MACH.                                                                                           | 14                    |               |
| - 76           |              | 2       | DELETED<br>-----*-----                                                                                 |                       |               |
| R 76A          | 791-0688-001 | 2       | PLATE, DESIGNATION-UNIT, MOD.<br>ATTACHING PARTS                                                       | 1                     |               |
| R - 76B        | 68-1660-26   | 2       | NUT, SELF-LKG, HEX., ANOD AL,<br>2-56 V72962 333-0604-000                                              | 2                     |               |
| R - 76C        | MS51957-3    | 2       | SCREW, MACH., SST, PAN HD,<br>2-56 X 1/4 343-0124-000<br>-----*-----                                   | 2                     |               |
| 77             | 767-6034-001 | 2       | COVER ASSY, HV                                                                                         | 1                     |               |
| 78             | 15S1-1-1AC   | 3       | STUD ASSY, PB V71286<br>012-3350-000                                                                   | 3                     |               |
| - 79           | 15S11-2AE    | 3       | ATTACHING PARTS<br>NUT, PUSH ON, CAD. PL STL, 0.295<br>ID, 0.520 OD V71286 012-3366-000<br>-----*----- | 1                     |               |
| 80             | 763-1683-001 | 3       | PLATE, STIFF., CVR, HV                                                                                 | 1                     |               |
| 81             | 763-1470-001 | 2       | COVER, HV                                                                                              | 1                     |               |
| 82             | 761-8263-001 | 2       | TRANSMITTER MCDULATOR SUBASSY SEE<br>FIG. 6-2-0                                                        | 1                     |               |
| - 83           | 763-1707-001 | 2       | ATTACHING PARTS<br>PIN, GROOVED, HDLS, CRES, 0.125<br>DIA X 3-59/64 LG                                 | 1                     |               |

GROUP ASSEMBLY PARTS LIST

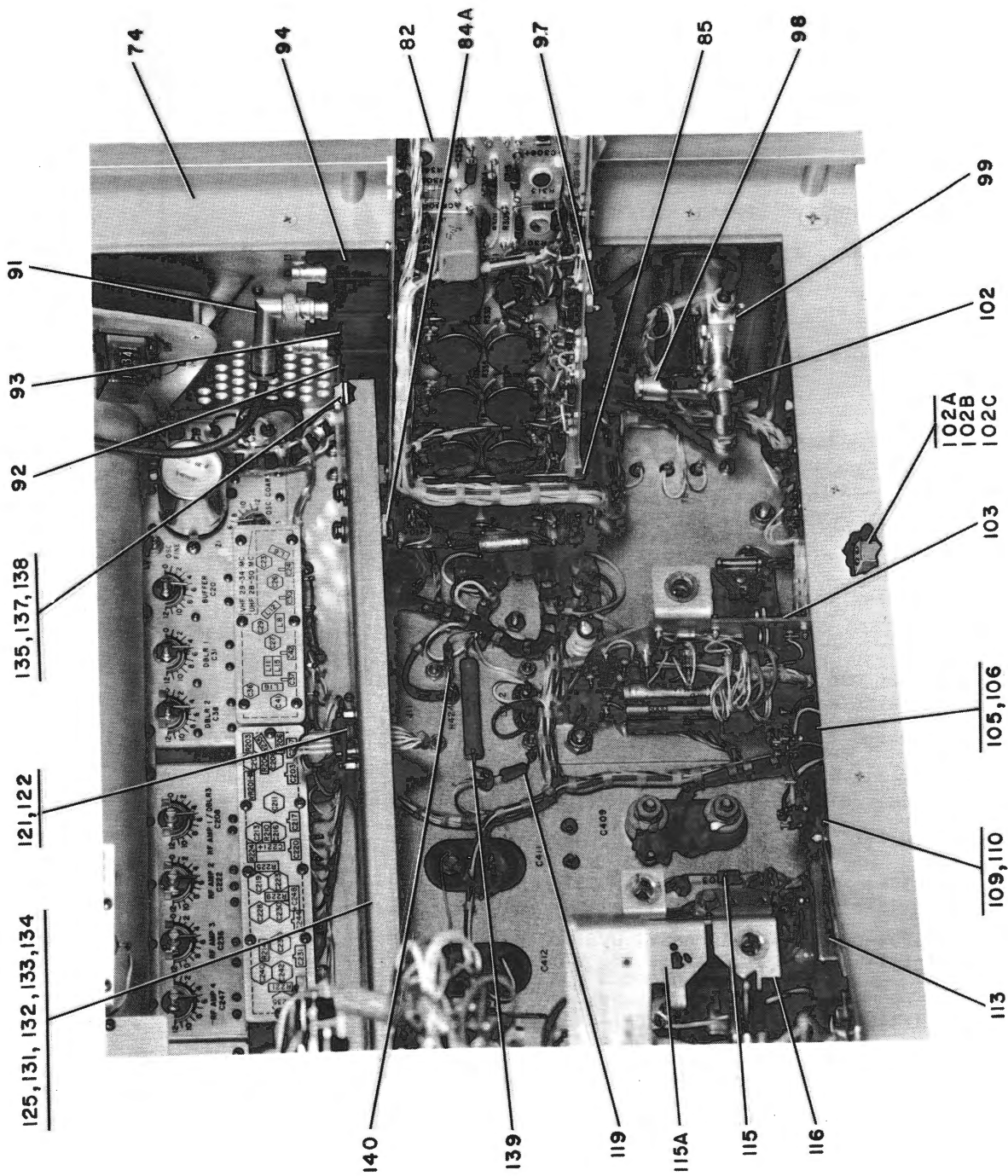


Figure 6-1. 242F-9C Radio Transmitter (Sheet 3 of 7)

## GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.     | INDENT. | NOMENCLATURE                                                                                            | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|--------------|---------|---------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 1 - 84      | MS16633-1012 | 2       | RING, RET. 340-0087-000<br>-----*                                                                       | 2                     |               |
| 84A            | 772-6706-001 | 2       | BRACKET, STOP<br>ATTACHING PARTS                                                                        | 1                     |               |
| 84B            | MS51957-15   | 2       | SCREW, MACH., SST, 4-40 x 3/8<br>343-0135-000                                                           | 2                     |               |
| 84C            | MS35338-135  | 2       | WASHER, LOCK, SST, 0.115 ID, 0.212<br>OD 310-0279-000<br>-----*                                         | 2                     |               |
| 85             | 757-6981-001 | 2       | BRACKET, PIVOT<br>ATTACHING PARTS                                                                       | 1                     |               |
| - 86           | MS35699-64   | 2       | NUT, PLAIN, HEX., CRES, 6-32<br>313-0002-000                                                            | 2                     |               |
| - 87           | MS35337-79   | 2       | WASHER, LOCK, CRES, 0.151 ID,<br>0.239 OD 310-0071-000<br>-----*                                        | 2                     |               |
| 88             | 540-9478-003 | 2       | POST, ELECTRICAL-MECH EQUIP.<br>ATTACHING PARTS                                                         | 1                     |               |
| - 89           | MS51957-28   | 2       | SCREW, MACH., CRES, PAN HD, 6-32 X<br>3/8 343-0169-000                                                  | 1                     |               |
| - 90           | MS35216-49   | 2       | SCREW, MACH., CRES, PAN HD, 8-32 X<br>1-3/4 343-0197-000                                                | 1                     |               |
| - 90A          | 310-0071-000 | 2       | WASHER, LOCK, SST, 0.151 ID, 0.239<br>OD/COML/                                                          | 2                     |               |
| - 90B          | MS35649-264  | 2       | NUT, PLAIN, HEX., SST, 6-32<br>313-0002-000<br>-----*                                                   | 2                     |               |
| 91             | MS35367-913A | 2       | CONNECTOR, PLUG 357-9169-000                                                                            | 1                     |               |
| 92             | 5448A        | 2       | FILTER, LP V70998 241-0554-020                                                                          | 1                     | B             |
| 93             | 5447A        | 2       | FILTER, LP V70998 241-0553-020                                                                          | 1                     | B             |
| 94             | 5451A        | 2       | FILTER, LP V70998 241-0552-020<br>ATTACHING PARTS FOR 92 THRU 94                                        | 1                     | A             |
| - 95           | MS21044D04   | 2       | NUT, SELF-LKG, HEX., ANOD AL, 4-40<br>333-0347-000                                                      | 4                     |               |
| - 96           | MS51957-14   | 2       | SCREW, MACH., SST, PAN HD, 4-40 X<br>5/16 343-0134-000<br>-----*                                        | 4                     |               |
| 97             | MS35367-913A | 2       | CONNECTOR, PLUG 357-9169-000                                                                            | 1                     |               |
| 98             | MS35367-913A | 2       | CONNECTOR, PLUG 357-9169-000                                                                            | 1                     |               |
| 99             | DK156-48     | 2       | SWITCH, RF XMSN LINE V00471<br>410-0455-020<br>ATTACHING PARTS                                          | 1                     |               |
| -100           | MS21044D06   | 2       | NUT, SELF-LKG, HEX., ANOD AL, 6-32<br>333-0368-000                                                      | 2                     |               |
| -101           | MS51959-30   | 2       | SCREW, MACH., CRES, FH, 6-32 X 1/2<br>342-0064-000<br>-----*                                            | 2                     |               |
| 102            | MS35367-913A | 2       | CONNECTOR, PLUG 357-9169-000                                                                            | 1                     |               |
| R 102A         | 549-2453-002 | 2       | ARRESTOR, ELECTRICAL SURGE EFF<br>MCN 285 SB 2                                                          | 1                     |               |
| R 102B         | 633          | 2       | DISCHARGER, ELECTROSTATIC V77554<br>975-0010-000 EFF MCN 285 SB 2                                       | 1                     |               |
| R 102C         | 495L         | 2       | DISCHARGER, ELECTROSTATIC V77554<br>975-0011-000 EFF MCN 285 SB 2<br>ATTACHING PARTS FOR 102A THRU 102C | 1                     |               |
| R - 102D       | MS35649-264  | 2       | NUT, PLAIN, HEX., SST, 6-32<br>313-0002-000 EFF MCN 285 SB 2                                            | 2                     |               |

## GROUP ASSEMBLY PARTS LIST

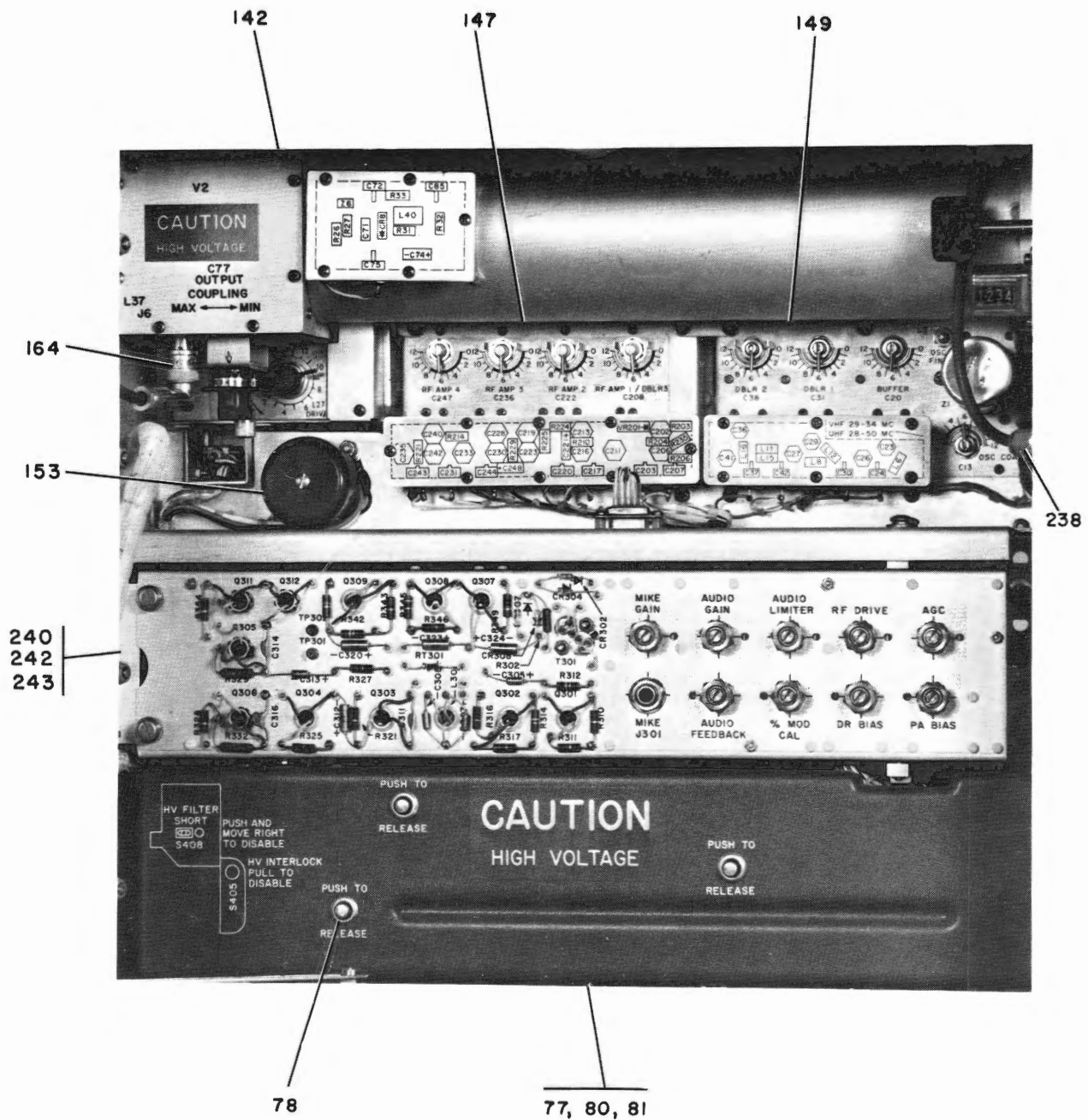


Figure 6-1. 242F-9C Radio Transmitter (Sheet 4 of 7)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.          | INDENT. | NOMENCLATURE                                                                    | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|-------------------|---------|---------------------------------------------------------------------------------|-----------------------|---------------|
| R 6-1 102E     | MS35338-136       | 2       | WASHER, LOCK, SST, 0.141 ID, 0.253<br>OD 310-0282-000 EFF MCN 285 SB 2          | 2                     |               |
| R - 102F       | 310-6360-000      | 2       | WASHER, FLAT, SST, 0.147 ID, 0.375<br>OD/COML/ EFF MCN 285 SB 2                 | 2                     |               |
| R - 102G       | MS51959-34        | 2       | SCREW, MACH., SST, FH, 6-32 X 1<br>342-0069-000 EFF MCN 285 SB 2<br>-----*----- | 2                     |               |
| 103            | 761-8266-001      | 2       | ELECTRICAL COMPONENT BRACKET SEE<br>FIG. 6-3-0<br>ATTACHING PARTS               | 1                     |               |
| -104           | 68NE040           | 2       | NUT, SELF-LKG, HEX., ANOD AL,<br>1/4-20 V72962 333-0430-000<br>-----*-----      | 2                     |               |
| 105            | 4JA723EX40        | 2       | SEMICOND DEVICE SET V09214 CR410<br>353-6470-020                                | 1                     |               |
| 106            | 763-1552-001      | 2       | BRACKET, BRDG<br>ATTACHING PARTS FOR 105 AND 106                                | 1                     |               |
| -107           | MS51957-13        | 2       | SCREW, MACH., SST, PAN HD, 4-40 X<br>1/4 343-0133-000                           | 2                     |               |
| -108           | MS21044D04        | 2       | NUT, SELF-LKG, HEX., ANOD AL, 4-40<br>333-0347-000<br>-----*-----               | 2                     |               |
| 109            | 4JA723EX39        | 2       | SEMICOND DEVICE SET V09214 CR409<br>353-6470-010                                | 1                     |               |
| 110            | 763-1552-001      | 2       | BRACKET, BRDG<br>ATTACHING PARTS FOR 109 AND 110                                | 1                     |               |
| -111           | MS51957-13        | 2       | SCREW, MACH., SST, PAN HD, 4-40 X<br>1/4 343-0133-000                           | 2                     |               |
| -112           | MS21044D04        | 2       | NUT, SELF-LKG, HEX., ANOD AL, 4-40<br>333-0347-000<br>-----*-----               | 2                     |               |
| 113            | CP54B1FF105K<br>1 | 2       | CAPACITOR, FXD, 1 UF 10%, 600 VDCW C401<br>961-5690-000<br>ATTACHING PARTS      | 1                     |               |
| -114           | MS21044D04        | 2       | NUT, SELF-LKG, HEX., ANOD AL, 4-40<br>333-0347-000<br>-----*-----               | 2                     |               |
| 115            | RC20GF100K        | 2       | RESISTOR, FXD, 10 OHMS 10%, 1/2 W R403<br>745-1268-000                          | 1                     |               |
| 115A           | NO NUMBER         | 2       | SWITCH S408                                                                     | 1                     |               |
| - 115B         | MS16562-190       | 3       | PIN SPG, 0.062 DIA X 1/4 LG 311-0417-000                                        | 2                     |               |
| - 115C         | 5X1012            | 3       | FORM V71590 190-0036-000                                                        | 1                     |               |

GROUP ASSEMBLY PARTS LIST

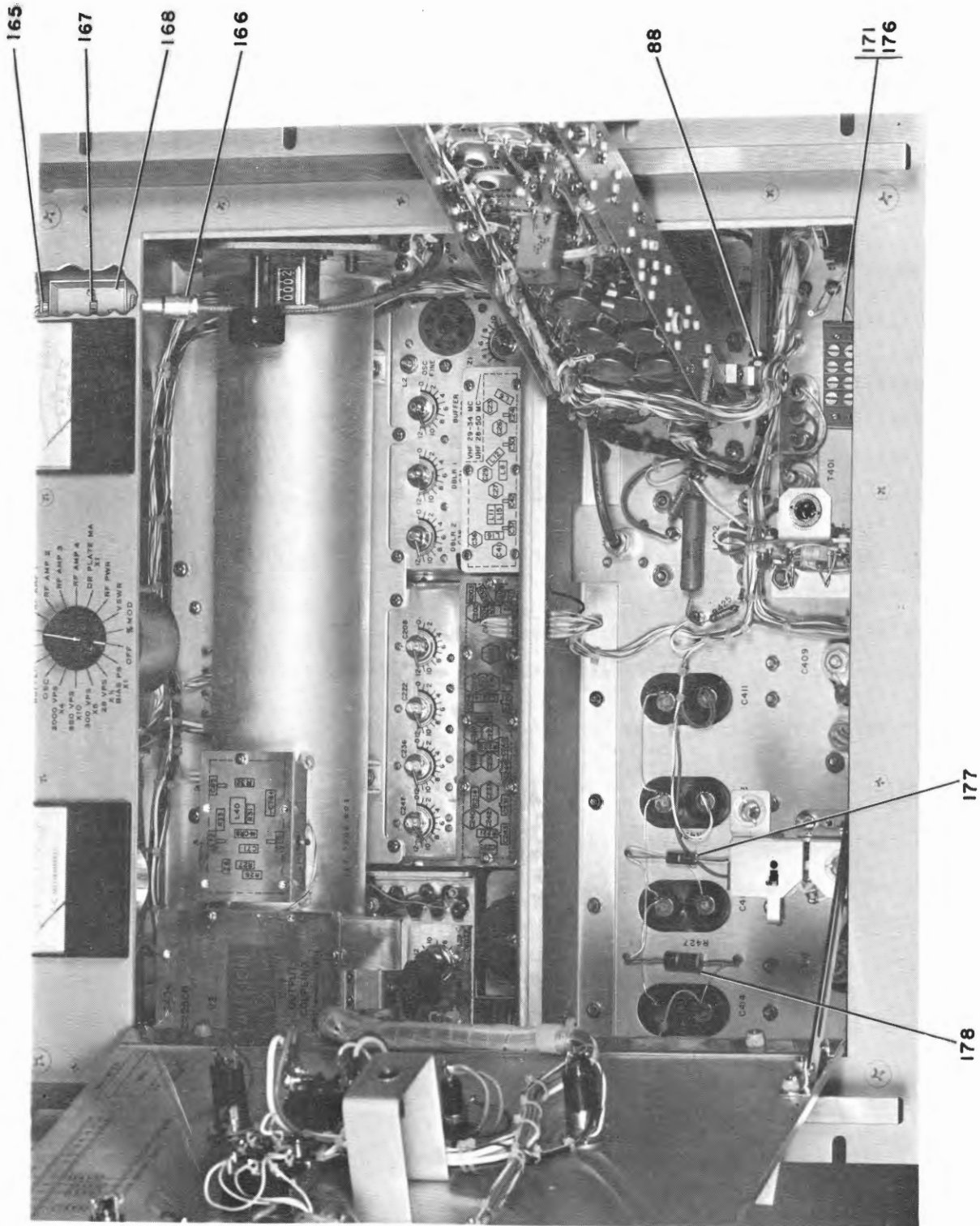


Figure 6-1. 242F-9C Radio Transmitter (Sheet 5 of 7)

GROUP ASSEMBLY PARTS LIST

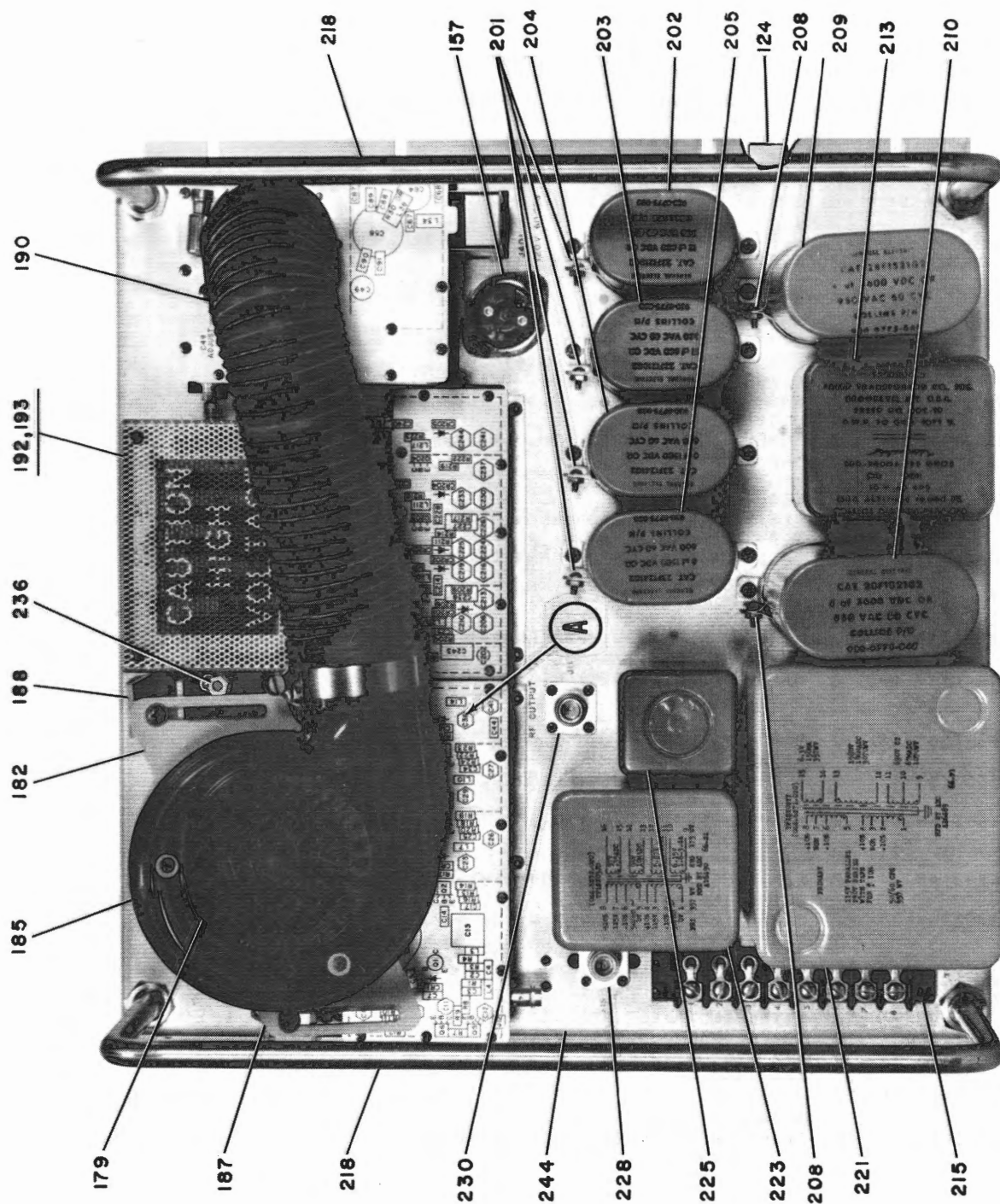
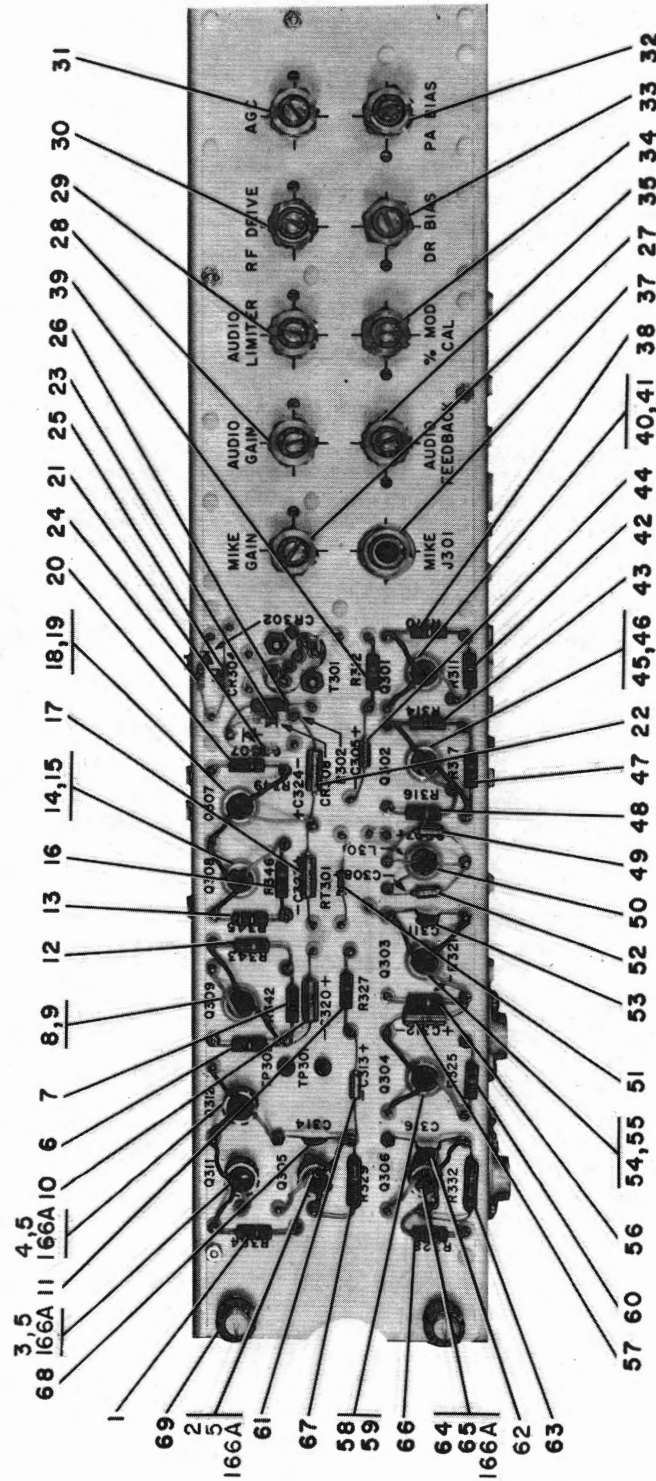


Figure 6-1. 242F-9C Radio Transmitter (Sheet 6 of 7)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.      | NOMENCLATURE                                                                                | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|--------------|---------------------------------------------------------------------------------------------|-----------------------|---------------|
| R 6- 1         | 167      | RC20GF102K   | 2 RESISTOR, FXD, 1000 OHMS<br>10%, 1/2 W 745-1352-000                                       | R35                   | 1             |
|                | 168      | 4162M        | 2 COUPLER, DIRECTIONAL V70998<br>277-0307-010                                               | Z2                    | 1             |
|                | -169     | MS21044D04   | 2 ATTACHING PARTS<br>NUT, SELF-LKG, HEX., ANOD AL, 4-40<br>333-0347-000                     |                       | 4             |
|                | -170     | MS51957-13   | 2 SCREW, MACH., SST, PAN HD, 4-40 X<br>1/4 343-0133-000                                     |                       | 4             |
|                | 171      | 4-140        | 2 -----*-----<br>TERMINAL BOARD V71785<br>367-0002-000                                      | TB402                 | 1             |
|                | -172     | P313-0045-00 | 2 ATTACHING PARTS<br>NUT, PLAIN, HEX., CRES, 6-32<br>V77250 313-0045-000                    |                       | 4             |
|                | -173     | MS35338-79   | 2 WASHER, LOCK, CRES, 0.141 ID,<br>0.253 OD 310-0282-000                                    |                       | 4             |
|                | -174     | 310-0046-000 | 2 WASHER, FLAT, CRES, 0.147 ID,<br>0.312 OD /COML/                                          |                       | 4             |
|                | -175     | MS51959-32   | 2 SCREW, MACH., CRES, FH, 6-32 X 1/2<br>342-0064-000                                        |                       | 4             |
|                | 176      | 763-1460-000 | 2 -----*-----<br>LEAD, ELECTRICAL                                                           |                       | 2             |
|                | 177      | RC32GF681K   | 2 RESISTOR, FXD, 680 OHMS 10%, 1 W<br>745-3345-000                                          | R426                  | 1             |
|                | 178      | RC42GF472K   | 2 RESISTOR, FXD, 4700 OHMS 10%, 2 W<br>745-5680-000                                         | R427                  | 1             |
|                | 179      | 009-3009-000 | 2 SCREEN                                                                                    |                       | 1             |
|                | -180     | 330-0033-000 | 2 ATTACHING PARTS<br>SCREW, SELF-TAP., PARKERIZED STL,<br>BIND. HD, 6 X 1/4 /COML/          |                       | 3             |
|                | -181     | 310-0447-000 | 2 WASHER, FLAT, CRES, 0.147 ID,<br>0.437 OD /COML/                                          |                       | 3             |
|                | 182      | 763-1568-001 | 2 -----*-----<br>BRACKET, FAN                                                               |                       | 1             |
|                | -183     | MS35216-44   | 2 ATTACHING PARTS<br>SCREW, MACH., CRES, PAN HD, 8-32 X<br>3/4 343-0191-000                 |                       | 2             |
|                | -184     | 310-0048-000 | 2 WASHER, FLAT, CRES, 0.172 ID,<br>0.437 OD /COML/                                          |                       | 2             |
| R              | 185      | AK2H01AX     | 2 -----*-----<br>FAN, CENT. V50133 009-1781-010                                             | B401                  | 1             |
|                | -186     | MS35216-42   | 2 ATTACHING PARTS<br>SCREW, MACH., CRES, PAN HD, 8-32 X<br>1/2 343-0189-000                 |                       | 3             |
|                | 187      | 767-6031-001 | 2 -----*-----<br>BRACKET, FAN, NO. 1, PRSD                                                  |                       | 1             |
|                | 188      | 767-6032-001 | 2 BRACKET, FAN, NO. 2, PRSD                                                                 |                       | 1             |
|                | -189     | MS35216-42   | 2 ATTACHING PARTS FOR 187 AND 188<br>SCREW, MACH., CRES, PAN HD, 8-32 X<br>1/2 343-0189-000 |                       | 3             |
|                | 190      | 009-1804-010 | 2 -----*-----<br>HOSE, RUB.                                                                 |                       | 1             |
|                | -191     | QS200M32S    | 2 ATTACHING PARTS<br>CLAMP, HOSE V08484 013-0994-000                                        |                       | 2             |
|                |          |              | 2 -----*-----                                                                               |                       |               |

GROUP ASSEMBLY PARTS LIST



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GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.       | INDENT.                                                                            | NOMENCLATURE                                                  | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------|---------------|
| 6- 2           | 12             | RC20GF682K                                                                         | 2 RESISTOR, FXD, 6800 OHMS 10%, 1/2 W 745-1387-000 R343       | 1                     |               |
|                | 13             | RC20GF392K                                                                         | 2 RESISTOR, FXD, 3900 OHMS 10%, 1/2 W 745-1377-000 R345       | 1                     |               |
|                | 14             | T1532                                                                              | 2 HOLDER, TSTR V98291 352-9508-000                            | 1                     |               |
|                | 15             | 2N1711                                                                             | 2 TRANSISTOR 352-0400-000 Q308                                | 1                     |               |
|                | 16             | RC20GF271K                                                                         | 2 RESISTOR, FXD, 270 OHMS 10%, 1/2 W 745-1328-000 R346        | 1                     |               |
|                | 17             | 150D156X0035 R2                                                                    | 2 CAPACITOR, FXD, 15 UF 20%, 35 VDCW V56289 184-7414-000 C323 | 1                     |               |
|                | 18             | T1532                                                                              | 2 HOLDER, TSTR V98291 352-9508-000                            | 1                     |               |
|                | 19             | 2N1711                                                                             | 2 TRANSISTOR 352-0400-000 Q307                                | 1                     |               |
|                | 20             | RC20GF100K                                                                         | 2 RESISTOR, FXD, 10 OHMS 10%, 1/2 W 745-1268-000 R349         | 1                     |               |
|                | 21             | 1N457                                                                              | 2 SEMICOND DEVICE 353-0204-000 CR307                          | 1                     |               |
|                | 22             | 150D156X0020 B2                                                                    | 2 CAPACITOR, FXD, 15 UF 20%, 20 VDCW V56289 184-7371-000 C324 | 1                     |               |
|                | 23             | 1N457                                                                              | 2 SEMICOND DEVICE 353-0204-000 CR308                          | 1                     |               |
|                | 24             | 1N457                                                                              | 2 SEMICOND DEVICE 353-0204-000 CR302                          | 1                     |               |
|                | 25             | 1N457                                                                              | 2 SEMICOND DEVICE 353-0204-000 CR304                          | 1                     |               |
|                | 26             | RN65D4640F                                                                         | 2 RESISTOR, FXD, 464 OHMS 1%, 1/2 W 705-7080-000 R302         | 1                     |               |
|                | 27             | RV2LAYS A501A                                                                      | 2 RESISTOR, VAR., 500 OHMS 10%, 1 W 380-3770-010 R306         | 1                     |               |
|                | 28             | RV2LAYS A501A                                                                      | 2 RESISTOR, VAR., 500 OHMS 10%, 1 W 380-3770-010 R303         | 1                     |               |
|                | 29             | RV2LAYS A103B                                                                      | 2 RESISTOR, VAR, 10,000 OHMS 20%, 1 W 380-2607-000 R344       | 1                     |               |
|                | 30             | RV2LAYS A252B                                                                      | 2 RESISTOR, VAR, 2500 OHMS 20%, 1 W 380-2605-000 R358         | 1                     |               |
|                | 31             | RV2LAYS A252B                                                                      | 2 RESISTOR, VAR, 2500 OHMS 20%, 1 W 380-2605-000 R415         | 1                     |               |
|                | 32             | RV2LAYS A252B                                                                      | 2 RESISTOR, VAR, 2500 OHMS 20%, 1 W 380-2605-000 R416         | 1                     |               |
|                | 33             | RV2LAYS A502B                                                                      | 2 RESISTOR, VAR, 5000 OHMS 20%, 1 W 380-2606-000 R419         | 1                     |               |
|                | 34             | RV2LAYS A103B                                                                      | 2 RESISTOR, VAR, 10,000 OHMS 20%, 1 W 380-2607-000 R355       | 1                     |               |
|                | 35             | RV2LAYS A103B                                                                      | 2 RESISTOR, VAR, 10,000 OHMS 20%, 1 W 380-2607-000 R338       | 1                     |               |
| - 36           | P334-4120-00 0 | 2 ATTACHING PARTS FOR 27 THRU 35 NUT, PLAIN, HEX., SST, 3/8-32 V77250 334-4120-000 | 9                                                             |                       |               |
| - 36A          | 1720-2         | 2 WASHER, LOCK, SST, 0.391 ID, 0.507 OD V78189 373-0085-000                        | 9                                                             |                       |               |
|                |                | -----*                                                                             |                                                               |                       |               |
|                | 37             | JJ033                                                                              | 2 JACK, TEL 358-1050-000 J301                                 | 1                     |               |
|                |                |                                                                                    | ATTACHING PARTS                                               |                       |               |
| - 37A          | 1720-2         | 2 WASHER, LOCK, SST, 0.391 ID, 0.507 OD V78189 373-0085-000                        | 1                                                             |                       |               |
|                |                | -----*                                                                             |                                                               |                       |               |
|                | 38             | RC20GF562K                                                                         | 2 RESISTOR, FXD, 5600 OHMS 10%, 1/2 W 745-1384-000 R310       | 1                     |               |
|                | 39             | RC20GF103K                                                                         | 2 RESISTOR, FXD, 10,000 OHMS 10%, 1/2 W 745-1394-000 R312     | 1                     |               |

## GROUP ASSEMBLY PARTS LIST

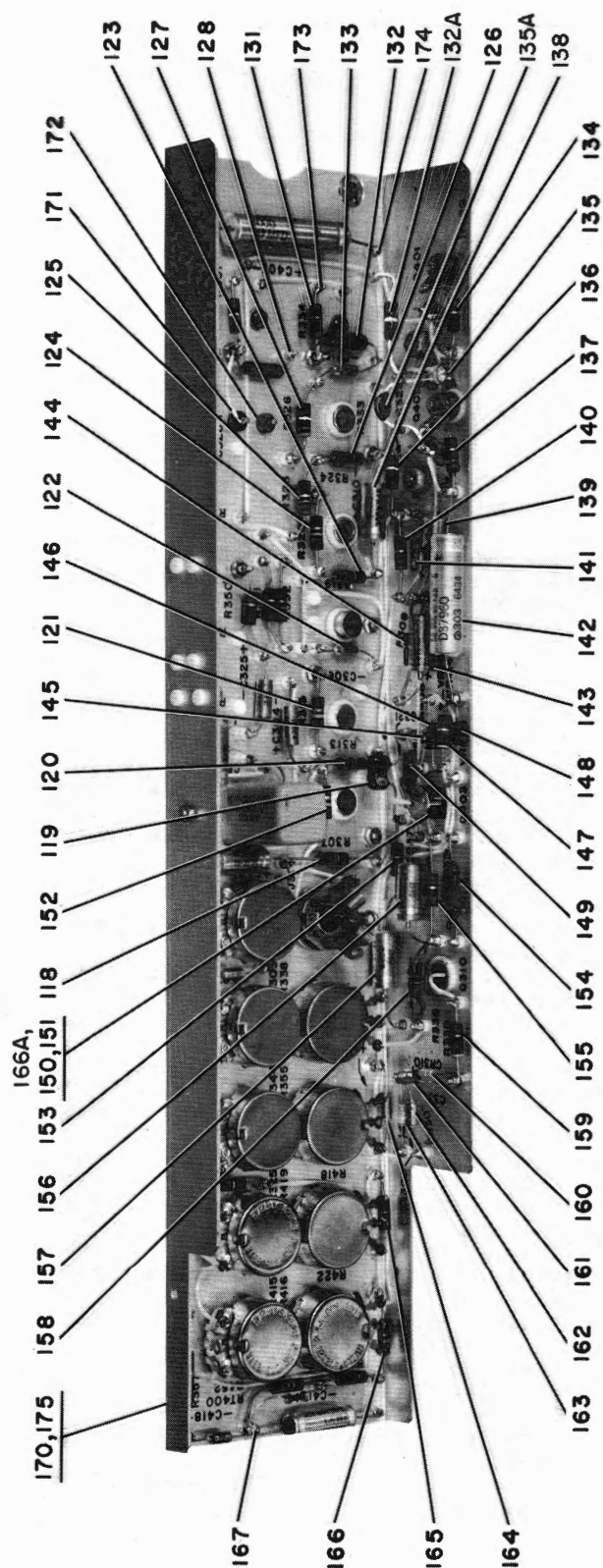


*Figure 6-2. Transmitter Modulator Subassembly (Sheet 3 of 3)*

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GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.            | INDENT. | NOMENCLATURE                                                                    | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|---------------------|---------|---------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 2 128       | AB406D              | 2       | TERMINAL, GRD V12615<br>306-1311-000<br>ATTACHING PARTS                         | 7                     |               |
| -129           | P313-0050-00<br>0   | 2       | NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000                        | 7                     |               |
| -130           | 310-0075-000        | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----               | 7                     |               |
| 131            | RC20GF152K          | 2       | RESISTOR, FXD, 1500 OHMS 10%, 1/2<br>W 745-1359-000                             | 1                     |               |
| 132            | RN70D4641F          | 2       | RESISTOR, FXD, 4640 OHMS 1%, 3/4 W<br>705-7628-000                              | 1                     |               |
| 132A           | CS13BG105M          | 2       | CAPACITOR, FXD, 1 UF, 20%, 50 VDCW<br>184-6233-000 EFF MCN 273                  | 1                     |               |
| 133            | 150D474X0035<br>A2  | 2       | CAPACITOR, FXD, 470,000 UUF 20%,<br>35 VDCW V56289 184-7399-000                 | 1                     |               |
| 134            | RC20GF182K          | 2       | RESISTOR, FXD, 1800 OHMS 10%, 1/2<br>W 745-1363-000                             | 1                     |               |
| 135            | 1N3034B             | 2       | SEMICOND DEVICE, ZENER DIO, 39 V<br>5% 353-3064-000                             | 1                     |               |
| R 135A         | 825-213X5V01<br>04Z | 2       | CAPACITOR, FXD, 0.1 UF, P80M20%,<br>200 VDCW V72982 913-3681-000<br>EFF MCN 273 | 1                     |               |
| 136            | RC20GF102K          | 2       | RESISTOR, FXD, 1000 OHMS 10%, 1/2<br>W 745-1352-000                             | 1                     |               |
| 137            | RC20GF681K          | 2       | RESISTOR, FXD, 680 OHMS 10%, 1/2 W<br>745-1345-000                              | 1                     |               |
| 138            | 150D156X0035<br>R2  | 2       | CAPACITOR, FXD, 15 UF 20%, 35 VDCW<br>V56289 184-7414-000                       | 1                     |               |
| 139            | 1N3031B             | 2       | SEMICOND DEVICE, ZENER DIO, 30 V<br>5% 353-3061-000                             | 1                     |               |
| 140            | RC20GF681K          | 2       | RESISTOR, FXD, 680 OHMS 10%, 1/2 W<br>745-1345-000                              | 1                     |               |
| 141            | 150D156X0035<br>R2  | 2       | CAPACITOR, FXD, 15 UF 20%, 35 VDCW<br>V56289 184-7414-000                       | 1                     |               |
| 142            | 600D606G060D<br>G4  | 2       | CAPACITOR, FXD, 60 UF P75M10%, 60<br>VDCW V56289 183-1277-390                   | 1                     |               |
| 143            | 150D156X0035<br>R2  | 2       | CAPACITOR, FXD, 15 UF 20%, 35 VDCW<br>V56289 184-7414-000                       | 1                     |               |
| 144            | RC20GF102K          | 2       | RESISTOR, FXD, 1000 OHMS 10%, 1/2<br>W 745-1352-000                             | 1                     |               |
| 145            | 1N982B              | 2       | SEMICOND DEVICE 353-3104-000                                                    | 1                     |               |
| 146            | 1N973B              | 2       | SEMICOND DEVICE 353-3095-000                                                    | 1                     |               |
| 147            | RC32GF472K          | 2       | RESISTOR, FXD, 4700 OHMS 10%, 1 W<br>745-3380-000                               | 1                     |               |
| 148            | 1N973B              | 2       | SEMICOND DEVICE 353-3095-000                                                    | 1                     |               |
| 149            | RC20GF561K          | 2       | RESISTOR, FXD, 560 OHMS 10%, 1/2 W<br>745-1342-000                              | 1                     |               |
| 150            | 2N3440              | 2       | TRANSISTOR 352-0603-010                                                         | 1                     |               |
| 151            | TXB2P032-037        | 2       | HOLDER, SEMICOND DEVICE V98978<br>352-9884-000                                  | 1                     |               |
| 152            | RC20GF273K          | 2       | RESISTOR, FXD, 27,000 OHMS 10%,<br>1/2 W 745-1412-000                           | 1                     |               |
| 153            | RC20GF272K          | 2       | RESISTOR, FXD, 2700 OHMS 10%, 1/2<br>W 745-1370-000                             | 1                     |               |
| 154            | RN65D1964F          | 2       | RESISTOR, FXD, 1.96 MEGΩ 1%, 1/2 W<br>705-7254-000                              | 1                     |               |

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.     | INDENT. | NOMENCLATURE                                                                                                                             | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|--------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 5 346       | 763-1441-001 | 3       | SCREEN, DUCT                                                                                                                             | 1                     |               |
| -347           | MS20426AD3-4 | 3       | ATTACHING PARTS FOR 345 AND 346<br>RIVET, SOLID, AL, 3/32 DIA X 1/4<br>LG SHK 305-1362-000                                               | 6                     |               |
| 348            | 763-1422-001 | 3       | -----*                                                                                                                                   | 1                     |               |
| 349            | 763-1423-001 | 3       | RING, SCRN, CCV                                                                                                                          | 1                     |               |
| -350           | R3484X3-16NI | 3       | SCREEN, COV, CAV<br>ATTACHING PARTS FOR 348 AND 349<br>RIVET, TUBULAR, NI PL BRS, 0.089<br>DIA X 3/16 LG SHK V12014<br>305-0121-000      | 8                     |               |
| 351            | 763-1741-001 | 3       | -----*                                                                                                                                   | 1                     |               |
| -352           | MS20426AD2-5 | 3       | SPACER, PL<br>ATTACHING PARTS<br>RIVET, SOLID, AL, 1/16 DIA X 5/16<br>LG SHK 305-1354-000                                                | 2                     |               |
| 353            | F12NCFMA1-62 | 3       | -----*                                                                                                                                   | 1                     |               |
| 354            | 506-7364-002 | 3       | NUT, SELF-LKG, CLINCH, CAD. PL<br>STL, 6-32 V72962 333-0841-000                                                                          | 3                     |               |
| 355            | F12NCFMA2-82 | 3       | FASTENER, ANGLE                                                                                                                          | 4                     |               |
| 356            | F435MILL6085 | 3       | NUT, SELF-LKG, CLINCH, CAD. PL<br>STL, 8-32 V72962 333-0844-000                                                                          | 1                     |               |
| 357            | F22NCFMA1-40 | 3       | BEARING, SLV V70417 309-0087-000                                                                                                         | 18                    |               |
| 358            | F22NCFMA1-26 | 3       | NUT, SELF-LKG, CLINCH, CAD. PL<br>STL, 4-40 V72962 333-0837-000                                                                          | 4                     |               |
| 359            | MS122076     | 3       | NUT, SELF-LKG, CLINCH, CAD. PL<br>STL, 2-56 V72962 333-0837-000                                                                          | 27                    |               |
| 360            | 757-7000-001 | 3       | INSERT, SCR THD, CRES, 4-40 X<br>0.112 012-1625-000                                                                                      | 1                     |               |
| 6- 6 - 0       | 767-6039-001 | 1       | CAVITY, TUNED, WELDED                                                                                                                    |                       |               |
| 1              | 767-7424-001 | 2       | RF DETECTOR SEE FIG. 6-5-269 FOR<br>NHA                                                                                                  | REF                   |               |
| 2              | 1N4310       | 2       | SUPPRESSOR, PARASITIC                                                                                                                    | Z6                    | 1             |
| 3              | EH351        | 2       | SEMICOND DEVICE 353-3564-000                                                                                                             | CR8                   | 1             |
| 4              | 6009-8A      | 2       | REACTOR V80223 678-1406-000                                                                                                              | L40                   | 1             |
| - 5            | R3484X1-8NI  | 2       | CLIP, COMPONENT V91506<br>139-2336-000<br>ATTACHING PARTS<br>RIVET, TUBULAR, NI PL BRS, 0.089<br>DIA X 1/8 LG SHK V12014<br>305-0119-000 | 1                     |               |
| 6              | RC20GF103K   | 2       | -----*                                                                                                                                   | 1                     |               |
| 7              | RC20GF472K   | 2       | RESISTOR, FXD, 10,000 OHMS 10%,<br>1/2 W 745-1394-000                                                                                    | R33                   | 1             |
| 8              | RC20GF153K   | 2       | RESISTOR, FXD, 4700 OHMS 10%, 1/2<br>W 745-1380-000                                                                                      | R32                   | 1             |
| 9              | CS138F156M   | 2       | RESISTOR, FXD, 15,000 OHMS 10%,<br>1/2 W 745-1401-000                                                                                    | R31                   | 1             |
|                |              | 2       | CAPACITOR, FXD, 15 UF 20%, 35 VDCW<br>184-6222-000                                                                                       | C74                   | 1             |

GROUP ASSEMBLY PARTS LIST

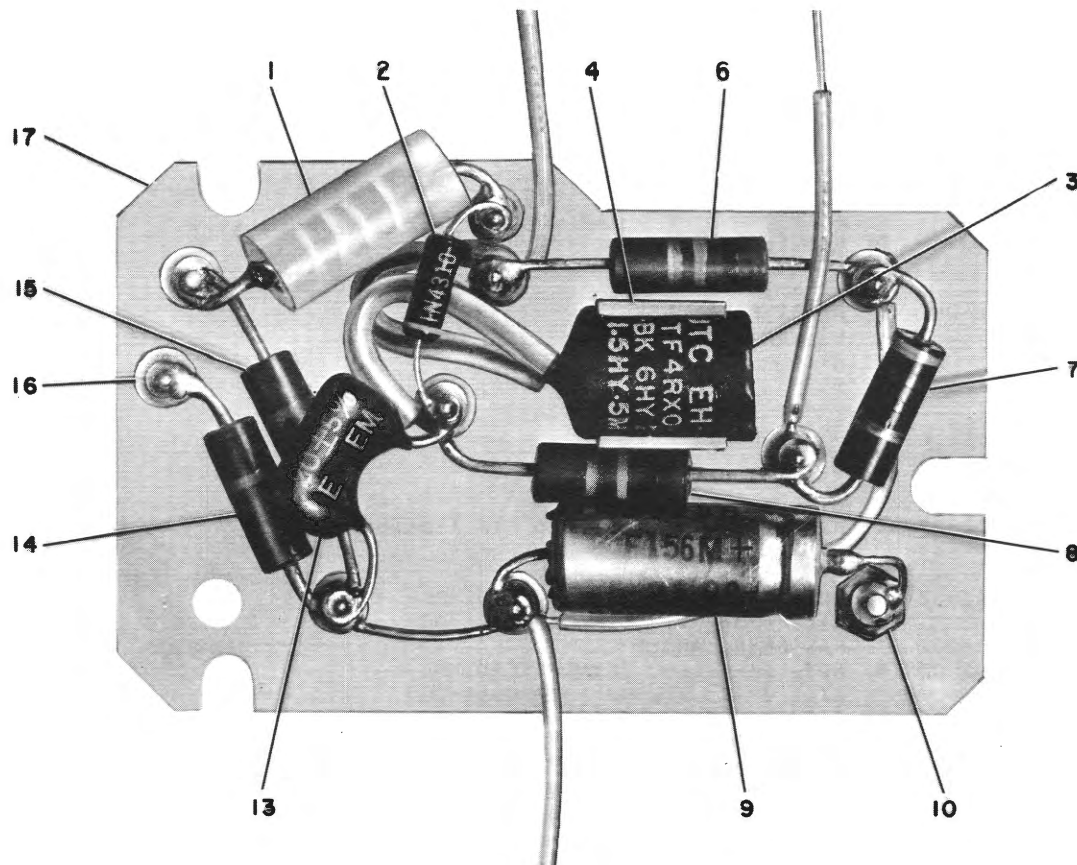


Figure 6-6. RF Detector

| FIG. -<br>ITEM | PART NO.     | INDENT. | NOMENCLATURE                                                 | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|--------------|---------|--------------------------------------------------------------|-----------------------|---------------|
| 6- 6 10        | AB397-1      | 2       | TERMINAL, STUD V12615<br>306-1286-000                        | 1                     |               |
|                |              |         | ATTACHING PARTS                                              |                       |               |
| - 11           | P313-0050-00 | 2       | NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000     | 1                     |               |
| - 12           | 310-0075-000 | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----* | 1                     |               |
| 13             | CM05E200J03  | 2       | CAPACITOR, FXD, 20 UUF 5%, 500<br>VDCW 912-2765-000          | 1                     | C71           |
| 14             | RC20GF121K   | 2       | RESISTOR, FXD, 120 OHMS 10%, 1/2 W<br>745-1314-000           | 1                     | R26           |
| 15             | RC20GF681K   | 2       | RESISTOR, FXD, 680 OHMS 10%, 1/2 W<br>745-1345-000           | 1                     | R27           |
| 16             | SL173-197    | 2       | TERMINAL, STANDOFF V12615<br>306-1261-000                    | 9                     |               |
| 17             | 763-1592-001 | 2       | TERMINAL BOARD, NO. 1                                        | 1                     |               |

GROUP ASSEMBLY PARTS LIST

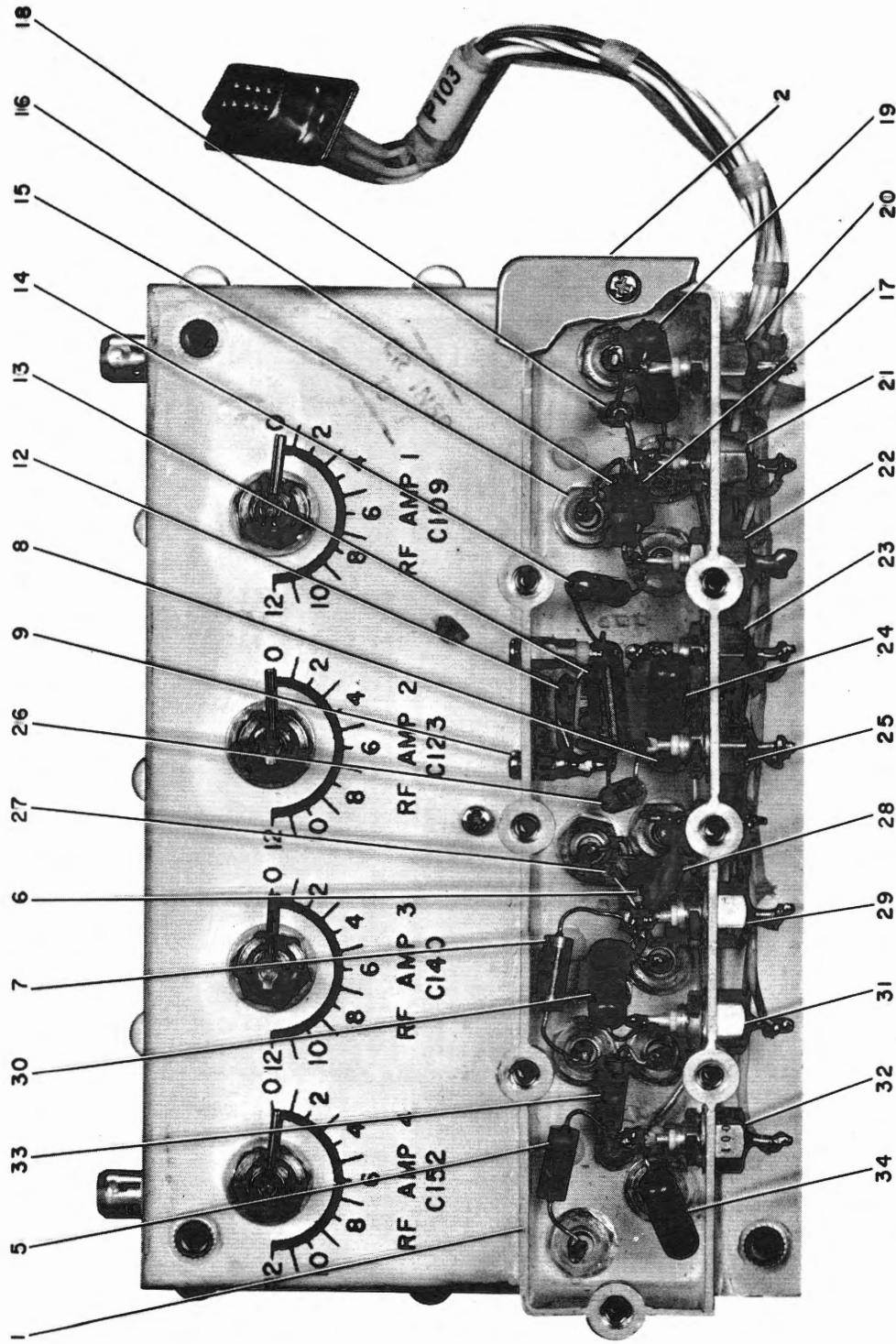


Figure 6-7. Transmitter VHF Exciter Subassembly (Sheet 1 of 4, Index 1 Through 34)

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GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.             | INDENT. | NOMENCLATURE                                                                                       | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------------------|---------|----------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 7 - 0       | 528-0604-004         | 1       | TRANSMITTER VHF EXCITER SUBASSY<br>SEE FIG. 6-1-147 FOR NHA                                        | REF                   |               |
| 1              | 280-3796-060         | 2       | PLATE, INFO                                                                                        | 1                     |               |
| 2              | 763-1730-001         | 2       | COVER, EXCITER, VHF, NO. 2<br>ATTACHING PARTS                                                      | 1                     |               |
| - 3            | MS51957-14           | 2       | SCREW, MACH., SST, PAN HD, 4-40 X<br>5/16 343-0134-000                                             | 8                     |               |
| - 4            | 310-0396-000         | 2       | WASHER, LOCK, SI BRZ, 0.112 ID,<br>0.202 OD /COML/<br>-----*-----                                  | 8                     |               |
| 5              | RC20GF560K           | 2       | RESISTOR, FXD, 56 OHMS 10%, 1/2 W<br>745-1300-000                                                  | 1                     |               |
| 6              | RC20GF104K           | 2       | RESISTOR, FXD, 100,000 OHMS 10%,<br>1/2 W 745-1436-000                                             | 1                     |               |
| 7              | MS18130-10           | 2       | COIL, RF, 1.5 UH 240-1570-000                                                                      | 1                     |               |
| 8              | G4777-10             | 2       | TERMINAL, STUD V12615<br>306-1018-000                                                              | 2                     |               |
| 9              | AB396-1              | 2       | TERMINAL, STUD V12615<br>306-1281-000                                                              | 1                     |               |
| - 10           | P343-0298-00<br>0    | 2       | ATTACHING PARTS FOR 8 AND 9<br>SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000 | 3                     |               |
| - 11           | 310-0075-000         | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----                                  | 3                     |               |
| 12             | RL4005-31-9-<br>73S1 | 2       | RESISTOR, THRM, 51.2 OHMS 10%,<br>1.25 W V75263 714-3305-010                                       | 1                     |               |
| 13             | RN65D2150F           | 2       | RESISTOR FXD, 215 OHMS 1%, 1/2 W<br>705-7064-000                                                   | 1                     |               |
| 14             | RN65D1330F           | 2       | RESISTOR, FXD, 133 OHMS 1%, 1/2 W<br>705-7054-000                                                  | 1                     |               |
| 15             | FB2B102W             | 2       | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020                                      | 1                     |               |
| 16             | RC20GF101K           | 2       | RESISTOR, FXD, 100 OHMS 10%, 1/2 W<br>745-1310-000                                                 | 1                     |               |
| 17             | RS1A00B22000<br>F    | 2       | RESISTOR, FXD, 2200 OHMS 1%, 1 W<br>V91637 747-1499-020                                            | 1                     |               |
| 18             | RC20GF332K           | 2       | RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                                                | 1                     |               |
| 19             | RN65D2151F           | 2       | RESISTOR, FXD, 2150 OHMS 1%, 1/2 W<br>705-7112-000                                                 | 1                     |               |
| 20             | FB2B102W             | 2       | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020                                      | 1                     |               |
| 21             | FB2B102W             | 2       | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020                                      | 1                     |               |
| 22             | FB2B471Z             | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                                       | 1                     |               |
| 23             | FB2B102W             | 2       | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020                                      | 1                     |               |
| 24             | RN65D8661F           | 2       | RESISTOR, FXD, 8660 OHMS 1%, 1/2 W<br>705-7141-000                                                 | 1                     |               |
| 25             | FB2B471Z             | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                                       | 1                     |               |
| 26             | MS18130-10           | 2       | COIL, RF, 1.5 UH 240-1570-000                                                                      | 1                     |               |
| 27             | MS18130-10           | 2       | COIL, RF, 1.5 UH 240-1570-000                                                                      | 1                     |               |

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.             | NOMENCLATURE | UNITS<br>PER<br>ASSY.                                               | USAGE<br>CODE |
|----------------|----------|---------------------|--------------|---------------------------------------------------------------------|---------------|
| 6- 7           | 28       | CK60AW102M          | 2            | CAPACITOR, FXD, 1000 UUF 20%, 1000<br>VDCW 913-1186-000             | C131<br>1     |
|                | 29       | FB2B102W            | 2            | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020       | C132<br>1     |
|                | 30       | RN65D1001F          | 2            | RESISTOR, FXD, 1000 OHMS 1%, 1/2 W<br>705-7096-000                  | R121<br>1     |
|                | 31       | FB2B102W            | 2            | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020       | C139<br>1     |
|                | 32       | FB2B102W            | 2            | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020       | C151<br>1     |
|                | 33       | MS18130-12          | 2            | COIL, RF, 2.2 UH 240-1572-000                                       | L116<br>1     |
|                | 34       | RN65D4222F          | 2            | RESISTOR, FXD, 42,200 OHMS 1%, 1/2<br>W 705-7174-000                | R127<br>1     |
|                | 35       | 757-6960-001        | 2            | COVER, EXCITER, VHF, NO. 1<br>ATTACHING PARTS                       | 1             |
| -              | 36       | MS51957-14          | 2            | SCREW, MACH., SST, PAN HD, 4-40 X<br>5/16 343-0134-000              | 15            |
| -              | 37       | 310-0396-000        | 2            | WASHER, LOCK, SI BRZ, 0.112 ID,<br>0.202 OD /COML/<br>-----*        | 15            |
|                | 38       | T1532               | 2            | HOLDER, TSTR V98291 352-9508-000                                    | 2             |
|                | 39       | 2N3866              | 2            | TRANSISTOR 352-0671-010                                             | Q102<br>1     |
|                | 40       | 2N3866              | 2            | TRANSISTOR 352-0671-010                                             | Q103<br>1     |
|                | 41       | CS138C107M          | 2            | CAPACITOR, FXD, 100 UF 20%, 10<br>VDCW 184-6150-000                 | C136<br>1     |
|                | 42       | RC20GF181K          | 2            | RESISTOR, FXD, 180 OHMS 10%, 1/2 W<br>745-1321-000                  | R119<br>1     |
|                | 43       | CS138C107M          | 2            | CAPACITOR, FXD, 100 UF 20%, 10<br>VDCW 184-6150-000                 | C148<br>1     |
|                | 44       | RC20GF101K          | 2            | RESISTOR, FXD, 100 OHMS 10%, 1/2 W<br>745-1310-000                  | R125<br>1     |
|                | 45       | 0750                | 2            | CONNECTOR, RECP V94375<br>357-9215-000                              | J102<br>1     |
|                | 46       | 4012HOTTINNE<br>D   | 2            | TERMINAL, LUG V77147<br>304-2800-000                                | 1             |
|                | 47       | RC20GF101K          | 2            | RESISTOR, FXD, 100 OHMS 10%, 1/2 W<br>745-1310-000                  | R122<br>1     |
|                | 48       | CK60AW102M          | 2            | CAPACITOR, FXD, 1000 UUF 20%, 1000<br>VDCW 913-1186-000             | C158<br>1     |
|                | 49       | G4777-10            | 2            | TERMINAL, STUD V12615<br>306-1018-000<br>ATTACHING PARTS            | 1             |
| -              | 50       | P343-0298-00<br>0   | 2            | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000 | 1             |
| -              | 51       | 310-0075-000        | 2            | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/                  | 1             |
| -              | 52       | 4040-2HOTTIN<br>NED | 2            | TERMINAL, LUG V77147<br>304-0014-000<br>-----*                      | 1             |
|                | 53       | RC20GF331K          | 2            | RESISTOR, FXD, 330 CHMS 10%, 1/2 W<br>745-1331-000                  | R123<br>1     |
|                | 54       | CK60AW102M          | 2            | CAPACITOR, FXD, 1000 UUF 20%, 1000<br>VDCW 913-1186-000             | C145<br>1     |
|                | 55       | RC20GF101K          | 2            | RESISTOR, FXD, 100 CHMS 10%, 1/2 W<br>745-1310-000                  | R116<br>1     |

GROUP ASSEMBLY PARTS LIST

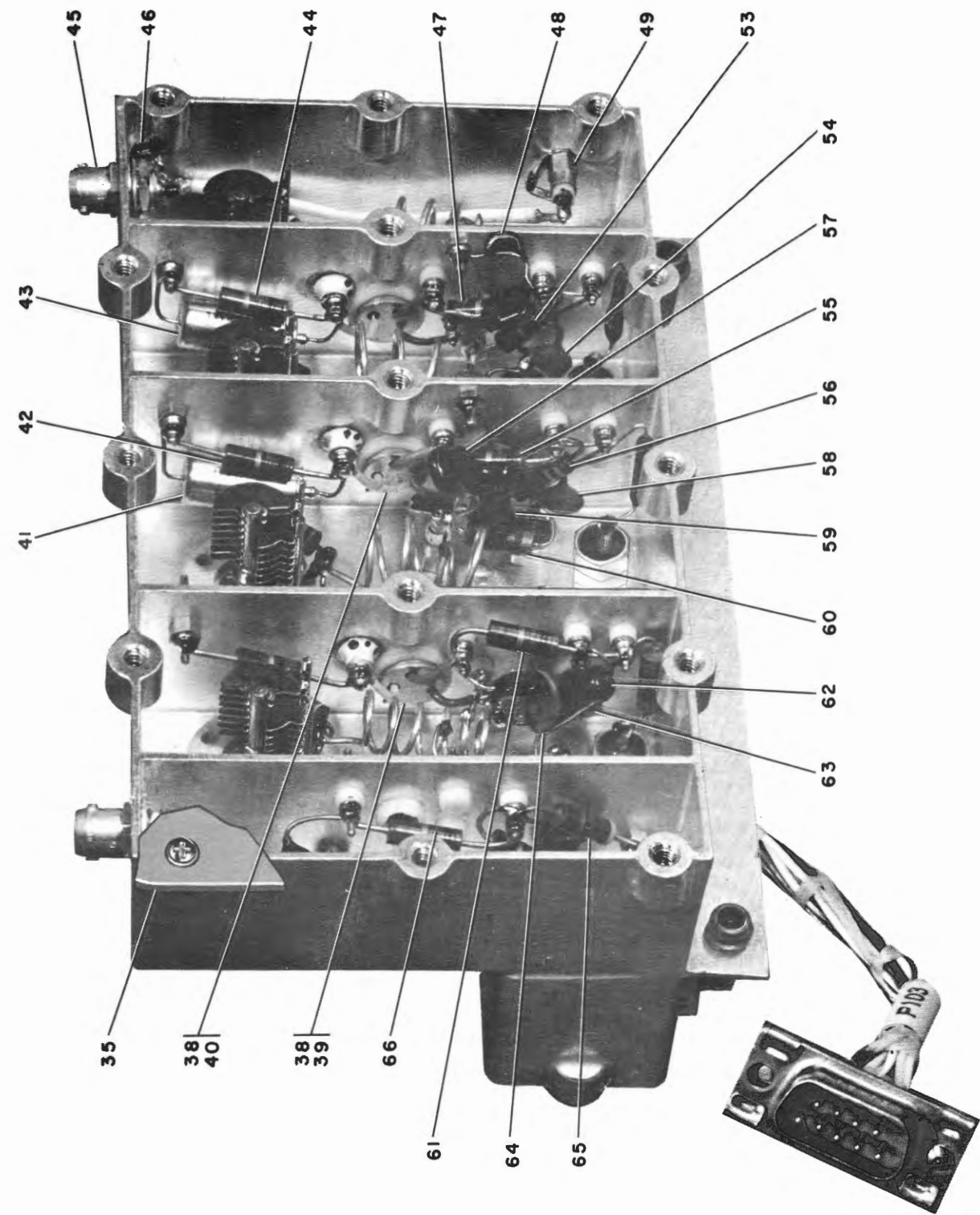


Figure 6-7. Transmitter VHF Exciter Subassembly (Sheet 2 of 4, Index 35 Through 66)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.               | NOMENCLATURE                                                                    | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|-----------------------|---------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 7           | 56       | RC20GF331K            | 2 RESISTOR, FXD, 330 OHMS 10%, 1/2 W<br>745-1331-000                            | R118                  | 1             |
|                | 57       | DM15C100J01           | 2 CAPACITOR, FXD, 10 UUF 5%, 500<br>VDCW V72136 912-2753-000                    | C129                  | 1             |
|                | 58       | CK60AW102M            | 2 CAPACITOR, FXD, 1000 UUF 20%, 1000<br>VDCW 913-1186-000                       | C134                  | 1             |
|                | 59       | MA4394                | 2 CAPACITOR, VOLTAGE VAR, 10 UUF<br>PORM 1 UUF, -30 VDCW V96341<br>922-6074-000 | CR103                 | 1             |
|                | 60       | MS18130-1             | 2 COIL, RF, 0.15 UH 240-1562-000                                                | L109                  | 1             |
|                | 61       | RC20GF101K            | 2 RESISTOR, FXD, 100 OHMS 10%, 1/2 W<br>745-1310-000                            | R109                  | 1             |
|                | 62       | RN65D3830F            | 2 RESISTOR, FXD, 383 OHMS 1%, 1/2 W<br>705-7076-000                             | R110                  | 1             |
|                | 63       | 845-014X5V05<br>03Z   | 2 CAPACITOR, FXD, 50,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3679-000        | C115                  | 1             |
|                | 64       | 805-014X5V01<br>03Z   | 2 CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000        | C111                  | 1             |
|                | 65       | RC20GF471K            | 2 RESISTOR, FXD, 470 OHMS 10%, 1/2 W<br>745-1338-000                            | R103                  | 1             |
|                | 66       | RC20GF101K            | 2 RESISTOR, FXD, 100 OHMS 10%, 1/2 W<br>745-1310-000                            | R101                  | 1             |
|                | 67       | T1533                 | 2 HOLDER, TSTR V98291 352-9509-000                                              |                       | 1             |
|                | 68       | 2N3563                | 2 TRANSISTOR 352-0630-010                                                       | Q101                  | 1             |
|                | 69       | 763-1637-001          | 2 COIL, RF, VHF, RF AMPL, NO. 1                                                 | L102                  | 1             |
|                | 70       | 0750                  | 2 CCNNECTOR, RECP V94375<br>357-9215-000                                        | J101                  | 1             |
|                | 71       | 2465-008W5T0<br>102P  | 2 CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V72982 913-3208-000                 | C117                  | 1             |
|                | 72       | CS138C107M            | 2 CAPACITOR, FXD, 100 UF 20%, 10<br>VDCW 184-6150-000                           | C118                  | 1             |
|                | 73       | 2465-008W5T0<br>102P  | 2 CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V72982 913-3208-000                 | C135                  | 1             |
|                | 74       | 2465-008W5T0<br>102P  | 2 CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V72982 913-3208-000                 | C147                  | 1             |
|                | 75       | T1532                 | 2 HOLDER, TSTR V98291 352-9508-000                                              |                       | 1             |
|                | 76       | 2N3866                | 2 TRANSISTOR 352-0671-010                                                       | Q104                  | 1             |
|                | 77       | 763-1548-001          | 2 COIL, RF, VHF, RF AMPL, NO. 3                                                 | L117                  | 1             |
|                | 78       | CK60AW102M            | 2 CAPACITOR, FXD, 1000 UUF 20%, 1000<br>VDCW 913-1186-000                       | C154                  | 1             |
|                | 79       | GA0-68MMFD20<br>1     | 2 CAPACITOR, FXD, 0.68 UUF 20%, 500<br>VDCW V78488 913-0387-000                 | C149                  | 1             |
|                | 80       | DM15C100J01           | 2 CAPACITOR, FXD, 10 UUF 5%, 500<br>VDCW V72136 912-2753-000                    | C144                  | 1             |
|                | 81       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                           | R120                  | 1             |
|                | 82       | GA1-5UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 1.5 UUF 5%, 500<br>VDCW V78488 913-2981-000                   | C137                  | 1             |
|                | 83       | FB2B102W              | 2 CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020                 | C130                  | 1             |
|                | 84       | DM15C050D01           | 2 CAPACITOR, FXD, 5 UUF PORM 0.5<br>UUF, 500 VDCW V72136<br>912-2750-000        | C128                  | 1             |
|                | 85       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                           | R113                  | 1             |

GROUP ASSEMBLY PARTS LIST

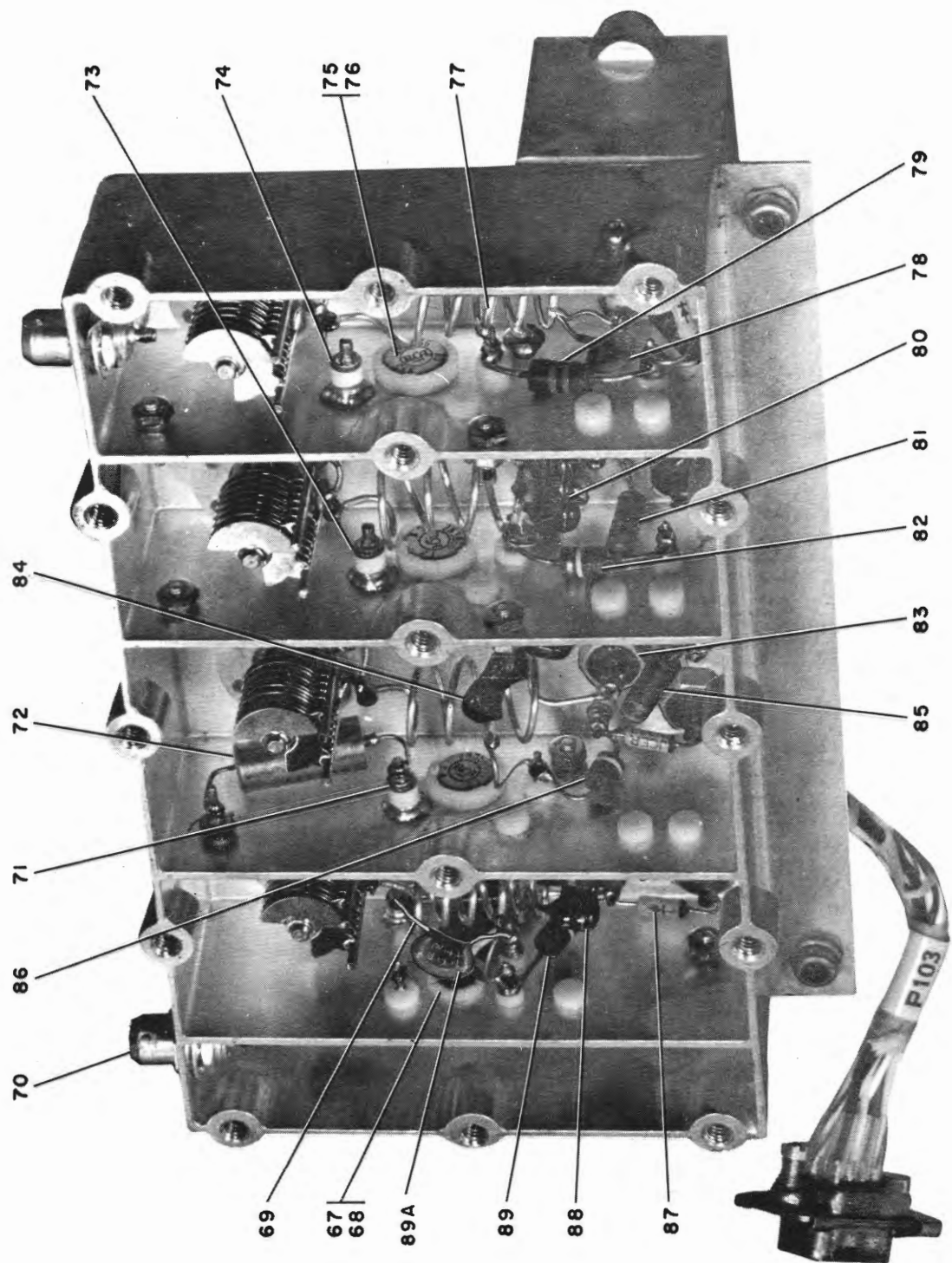


Figure 6-7. Transmitter VHF Exciter Subassembly (Sheet 3 of 4, Index 67 Through 89A)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.              | NOMENCLATURE                                                          | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|----------------------|-----------------------------------------------------------------------|-----------------------|---------------|
| 6- 7           | 86       | GA1-0MMFD201         | 2 CAPACITOR, FXD, 1 UUF 20%, 500<br>VDCW V78488 913-0388-000          | C119                  | 1             |
|                | 87       | JAN1N933             | 2 SEMICOND DEVICE 353-2051-000                                        | CR101                 | 1             |
|                | 88       | DM15C100J01          | 2 CAPACITOR, FXD, 10 UUF 5%, 500<br>VDCW V72136 912-2753-000          | C114                  | 1             |
|                | 89       | GA1-CMMFD201         | 2 CAPACITOR, FXD, 1 UUF 20%, 500<br>VDCW V78488 913-0388-000          | C106                  | 1             |
|                | 89A      | 805-<br>014X5V0103Z  | 2 CAPACITOR, FXD, 0.01 UF<br>P80M20%, 100 VDCW V72982 913-3680-000    | C105                  | 1             |
|                | 90       | RC20GF221K           | 2 RESISTOR, FXD, 220 OHMS 10%, 1/2 W<br>745-1324-000                  | R105                  | 1             |
| -              | 91       | 767-6010-001         | 2 WIRING HARNESS, BRANCHED                                            |                       | 1             |
|                | 92       | DE9PC33              | 3 CONNECTOR, RECP V71468<br>371-0168-000                              | P103                  | 1             |
|                | 93       | 20419                | 2 SCREW LOCK ASSY V71468<br>371-0040-000                              |                       | 2             |
|                | 94       | DM15F471K03          | 2 CAPACITOR, FXD, 470 UUF 10%, 500<br>VDCW V72136 912-2865-000        | C101                  | 1             |
|                | 95       | RC20GF332K           | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                 | R106                  | 1             |
|                | 96       | MS16562-194          | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                  |                       | 1             |
|                | 97       | 160-107-55           | 2 CAPACITOR, VAR, 2.6 TO 13.3 UUF,<br>850 VACW V74970 922-1021-010    | C109                  | 1             |
|                | 98       | GA4-7UUFPORM<br>5PCT | 2 CAPACITOR, FXD, 4.7 UUF 5%, 500<br>VDCW V78488 913-2993-000         | C110                  | 1             |
|                | 99       | RC20GF330K           | 2 RESISTOR, FXD, 33 OHMS 10%, 1/2 W<br>745-1289-000                   | R112                  | 1             |
|                | 100      | AB406D               | 2 TERMINAL, GRD V12615<br>306-1311-000                                |                       | 1             |
|                | -101     | P313-0050-00<br>0    | 2 NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000            |                       | 1             |
|                | -102     | 310-C075-000         | 2 WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----   |                       | 1             |
|                | 103      | 763-1547-001         | 2 COIL, RF, VHF, RF AMPL, NO. 2                                       | L106                  | 1             |
|                | 104      | MS16562-194          | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                  |                       | 1             |
|                | 105      | 160-107-55           | 2 CAPACITOR, VAR, 2.6 TO 13.3 UUF,<br>850 VDCW V74970 922-1021-010    | C123                  | 1             |
|                | 106      | GA3-3UUFPORM<br>5PCT | 2 CAPACITOR, FXD, 3.3 UUF 5%, 500<br>VDCW V78488 913-2989-000         | C122                  | 1             |
|                | 107      | G4777-10             | 2 TERMINAL, STUD V12615<br>306-1018-000                               |                       | 1             |
|                | -108     | P343-0298-00<br>0    | 2 SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000 |                       | 1             |
|                | -109     | 310-0075-000         | 2 WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----   |                       | 1             |
|                | 110      | MS16562-194          | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                  |                       | 1             |
|                | 111      | 160-107-55           | 2 CAPACITOR, VAR, 2.6 TO 13.3 UUF,<br>850 VACW V74970 922-1021-010    | C140                  | 1             |
|                | 112      | 763-1548-001         | 2 COIL, RF, VHF, RF AMPL, NO. 4                                       | L112                  | 1             |
|                | 113      | GA2-2UUFPORM<br>5PCT | 2 CAPACITOR, FXD, 2.2 UUF 5%, 500<br>VDCW V78488 913-2985-000         | C141                  | 1             |

GROUP ASSEMBLY PARTS LIST

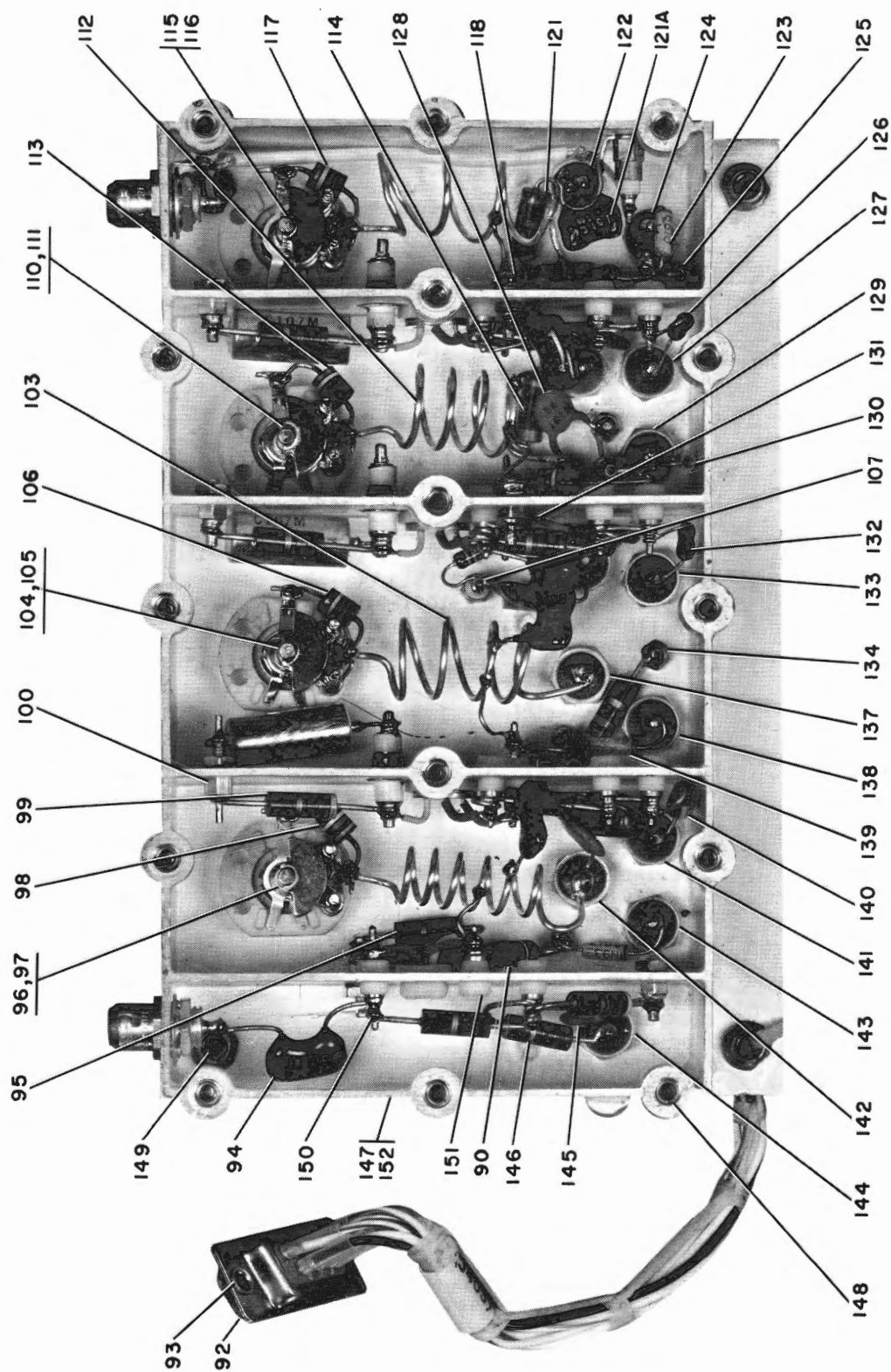


Figure 6-7. Transmitter VHF Exciter Subassembly (Sheet 4 of 4, Index 92 Through 152)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.           | NOMENCLATURE                                                         | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|-------------------|----------------------------------------------------------------------|-----------------------|---------------|
| 6- 7           | 114      | MS18130-10        | 2 CCIL, RF, 1.5 UH 240-1570-000 L113                                 | 1                     |               |
|                | 115      | MS16562-194       | 2 PIN, SPG, CRES, 0.062 CIA X 1/2 LG 311-0421-000                    | 1                     |               |
|                | 116      | 160-107-55        | 2 CAPACITOR, VAR, 2.6 TO 13.3 UUF, 850 VACW V74970 922-1021-010 C152 | 1                     |               |
|                | 117      | GA3-3ULFPORM 5PCT | 2 CAPACITOR, FXD, 3.3 UUF 5%, 500 VDCW V78488 913-2989-000 C153      | 1                     |               |
|                | 118      | AB397-1           | 2 TERMINAL, STUC V12615 306-1286-000 ATTACHING PARTS                 | 2                     |               |
|                | -119     | P334-0278-00 0    | 2 NUT, PLAIN, HEX., NI PL BRS, 2-56 V77250 334-0278-000              | 1                     |               |
|                | -120     | 310-CC75-000      | 2 WASHER, LOCK, SI BRZ, 0.086 ID, 0.165 OD /COML/ -----*-----        | 1                     |               |
|                | 121      | MS18130-10        | 2 CCIL, RF, 1.5 UH 240-1570-000 L118                                 | 1                     |               |
| R              | 121A     | CM05ED220 J03     | 2 CAPACITOR, FXD, 22 PF 5%, 500 VDCW 912-2768-000 C156               | 1                     |               |
|                | 122      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C155    | 1                     |               |
|                | 123      | JAN1N933          | 2 SEMICOND DEVICE 353-2051-000 CR105                                 | 1                     |               |
|                | 124      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C150    | 1                     |               |
|                | 125      | RC20GF332K        | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2 W 745-1373-000 R126              | 1                     |               |
|                | 126      | RS1A00B22000 F    | 2 RESISTOR, FXD, 2200 OHMS 1%, 1 W V91637 747-1499-020 R124          | 1                     |               |
|                | 127      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C146    | 1                     |               |
|                | 128      | CK60AW102M        | 2 CAPACITOR, FXD, 1000 UUF 20%, 1000 VDCW 913-1186-000 C142          | 1                     |               |
|                | 129      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C138    | 1                     |               |
|                | 130      | JAN1N933          | 2 SEMICOND DEVICE 353-2051-000 CR104                                 | 1                     |               |
|                | 131      | CK60AW102M        | 2 CAPACITOR, FXD, 1000 UUF 20%, 1000 VDCW 913-1186-000 C157          | 1                     |               |
|                | 132      | RC20GF222K        | 2 RESISTOR, FXD, 2200 OHMS 10%, 1/2 W 745-1366-000 R117              | 1                     |               |
|                | 133      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C133    | 1                     |               |
|                | 134      | AB397-1           | 2 TERMINAL, STUC V12615 306-1286-000 ATTACHING PARTS                 | 10                    |               |
|                | -135     | P313-0050-00 0    | 2 NUT, PLAIN, HEX., NI PL BRS, 2-56 V77250 313-0050-000              | 10                    |               |
|                | -136     | 310-C075-000      | 2 WASHER, LOCK, SI BRZ, 0.086 ID, 0.165 OD /COML/ -----*-----        | 10                    |               |
|                | 137      | FB2B471Z          | 2 CAPACITOR, FXD, 470 UUF 20%, 500 VDCW V01121 913-4235-010 C125     | 1                     |               |
|                | 138      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C120    | 1                     |               |
|                | 139      | JAN1N933          | 2 SEMICOND DEVICE 353-2051-000 CR102                                 | 1                     |               |
|                | 140      | MS18130-10        | 2 COIL, RF, 1.5 UH 240-1570-000 L105                                 | 1                     |               |
|                | 141      | FB2B102W          | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 VDCW V01121 913-4235-020 C116    | 1                     |               |
|                | 142      | FB2B471Z          | 2 CAPACITOR, FXD, 470 UUF 20%, 500 VDCW V01121 913-4235-010 C112     | 1                     |               |

section 6  
parts list

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.      | NOMENCLATURE                                                   | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|--------------|----------------------------------------------------------------|-----------------------|---------------|
| 6- 7           | 143      | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C107                       | 1                     |               |
|                | 144      | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C102                       | 1                     |               |
|                | 145      | CK60AW102M   | 2 CAPACITOR, FXD, 1000 UUF 20%, 1000 C104                      | 1                     |               |
|                | 146      | RC20GF272K   | 2 RESISTOR, FXD, 2700 OHMS 10%, 1/2 R102                       | 1                     |               |
|                | 147      | 767-6038-001 | 2 CHASSIS, ELECTRICAL EQUIP.                                   | 1                     |               |
|                | 148      | MS122076     | 3 INSERT, SCR THD, CRES, 4-40 X 0.112 012-1625-000             | 23                    |               |
|                | 149      | F12NCFMA2-62 | 3 NUT, SELF-LKG, CLINCH, CAD. PL STL, 6-32 V76962 333-0842-000 | 4                     |               |
|                | 150      | SL174-198    | 3 TERMINAL, FEEDTHRU V12615 306-1271-000                       | 4                     |               |
|                | 151      | SL173-197    | 3 TERMINAL, STANDOFF V12615 306-1261-000                       | 18                    |               |
|                | 152      | 763-1517-001 | 3 CHASSIS, ELECTRICAL EQUIP.                                   | 1                     |               |
| 6- 8 -         | 0        | 528-0603-004 | 1 TRANSMITTER UHF EXCITER SUBASSY SEE FIG. 6-1-147 FOR NHA     | REF                   |               |
|                | 1        | 280-3796-070 | 2 PLATE, INFO                                                  | 1                     |               |
|                | 2        | 763-1529-001 | 2 COVER, EXCITER, UHF, NO. 2 ATTACHING PARTS                   | 1                     |               |
| -              | 3        | MS51957-14   | 2 SCREW, MACH., SST, PAN HD, 4-40 X 5/16 343-0134-000          | 8                     |               |
| -              | 4        | MS35338-78   | 2 WASHER, LOCK, CRES, 0.115 ID, 0.212 OD 310-0279-000          | 8                     |               |
|                | 5        | RC20GF102K   | 2 RESISTOR, FXD, 1000 OHMS 10%, 1/2 R204                       | 1                     |               |
|                | 6        | RC20GF393K   | 2 RESISTOR, FXD, 39,000 OHMS 10%, 1/2 W 745-1419-000           | 1                     |               |
|                | 7        | RN65D2052F   | 2 RESISTOR, FXD, 20,500 OHMS 1%, 1/2 R206                      | 1                     |               |
|                | 8        | FB2B471Z     | 2 CAPACITOR, FXD, 470 UUF 20%, 500 C207                        | 1                     |               |
|                | 9        | FB2B471Z     | 2 CAPACITOR, FXD, 470 UUF 20%, 500 C203                        | 1                     |               |
|                | 10       | RC20GF102K   | 2 RESISTOR, FXD, 1000 OHMS 10%, 1/2 R203                       | 1                     |               |
|                | 11       | RN65D5112F   | 2 RESISTOR, FXD, 51,100 OHMS 1%, 1/2 R210                      | 1                     |               |
|                | 12       | FB2B471Z     | 2 CAPACITOR, FXD, 470 UUF 20%, 500 C217                        | 1                     |               |
|                | 13       | CL25BH080UP3 | 2 CAPACITOR, FXD, 8 UF P75M15%, 30 C221                        | 1                     |               |
|                | 14       | FB2B471Z     | 2 CAPACITOR, FXD, 470 UUF 20%, 500 C220                        | 1                     |               |
|                | 15       | RC20GF121K   | 2 RESISTOR, FXD, 120 OHMS 10%, 1/2 W 745-1314-000              | 1                     |               |
|                | 16       | RC20GF471K   | 2 RESISTOR, FXD, 470 OHMS 10%, 1/2 W 745-1338-000              | 1                     |               |

GROUP ASSEMBLY PARTS LIST

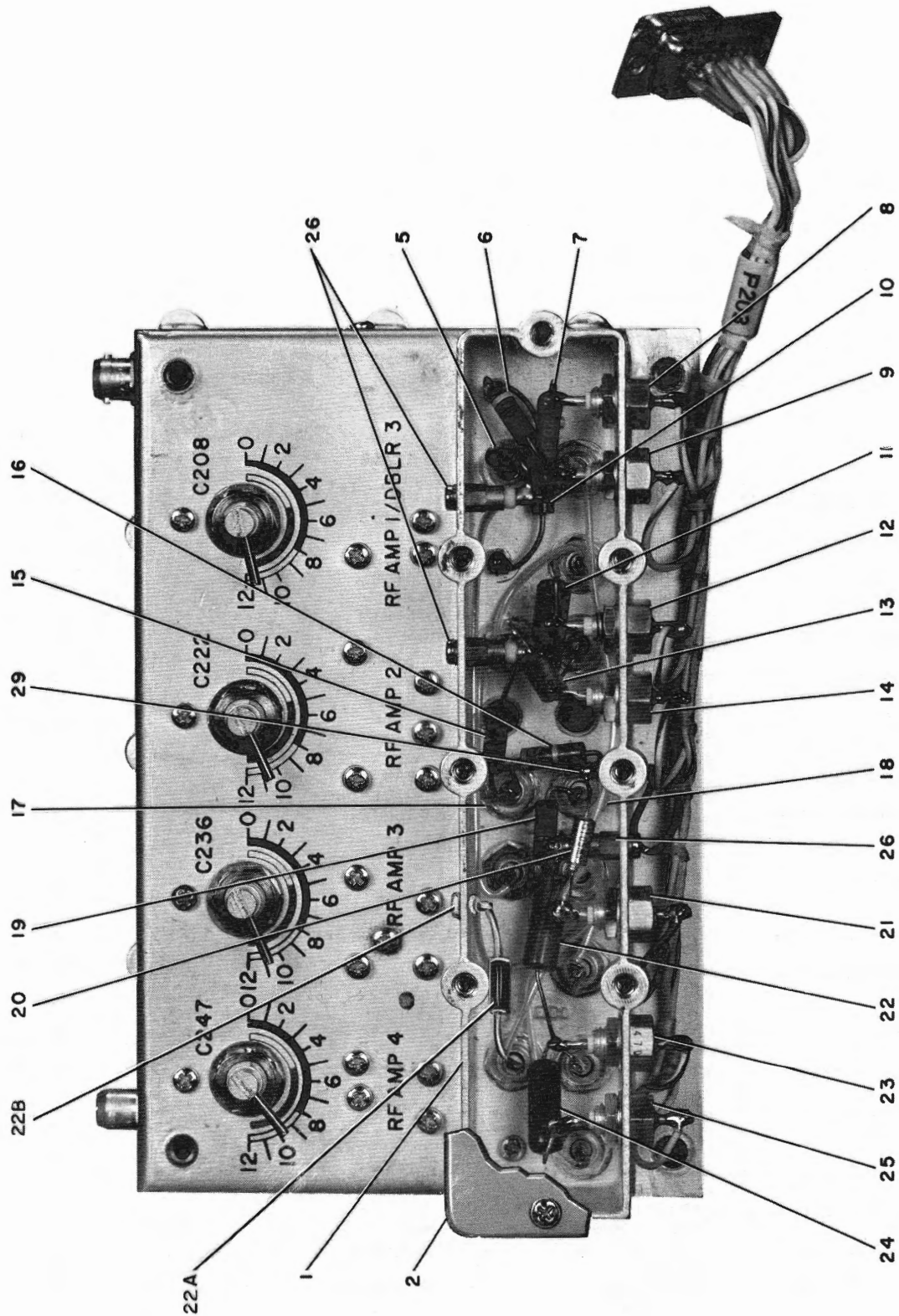


Figure 6-8. Transmitter UHF Exciter Subassembly (Sheet 1 of 4, Index 1 Through 29)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.             | NOMENCLATURE | UNITS<br>PER<br>ASSY.                                                               | USAGE<br>CODE |    |
|----------------|----------|---------------------|--------------|-------------------------------------------------------------------------------------|---------------|----|
| 6- 8           | 17       | FB2B471Z            | 2            | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                        | C219          | 1  |
|                | 18       | FB2B471Z            | 2            | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                        | C223          | 1  |
|                | 19       | RC20GF100K          | 2            | RESISTOR, FXD, 10 OHMS 10%, 1/2 W<br>745-1268-000                                   | R229          | 1  |
|                | 20       | CS13BG105M          | 2            | CAPACITOR, FXD, 1 UF 20%, 50 VDCW<br>184-6233-000                                   | C248          | 1  |
|                | 21       | FB2B471Z            | 2            | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                        | C244          | 1  |
|                | 22       | RN65D5112F          | 2            | RESISTOR, FXD, 51,100 OHMS 1%, 1/2<br>W 705-7178-000                                | R214          | 1  |
| R              | 22A      | RC20GF680K          | 2            | RESISTOR, FXD, 68 OHMS 10%,<br>1/2 W 745-1303-000<br>EFF MCN 278 SB 4               | R236          | 1  |
| R              | 22B      | TF300               | 2            | TERMINAL, STUD V98291<br>306-1018-000 EFF MCN 278 SB 4<br>ATTACHING PARTS           |               | 1  |
| R              | - 22C    | P342-0298-00<br>0   | 2            | SCREW, MACH., CAD PL STL, FH,<br>4-40 X 1-3/4 V77250 342-0298-000                   |               | 1  |
| R              | - 22D    | 310-0075-000        | 2            | WASHER, LOCK, SI BRZ,<br>0.086 ID, 0.165 OD /COML/<br>-----*-----                   |               | 1  |
|                | 23       | FB2B471Z            | 2            | CAPACITOR, FXD, 470 UUF 20%,<br>500 VDCW V01121 913-4235-010                        | C231          | 1  |
|                | 24       | RN65D8252F          | 2            | RESISTOR, FXD, 82,500 OHMS 1%,<br>1/2 W 705-7188-000                                | R221          | 1  |
|                | 25       | FB2B471Z            | 2            | CAPACITOR, FXD, 470-UUF 20%, 500<br>VDCW V01121 913-4235-010                        | C243          | 1  |
|                | 26       | G4777-10            | 2            | TERMINAL, STUD V12615<br>306-1018-000<br>ATTACHING PARTS                            |               | 3  |
|                | - 27     | P343-0298-00<br>0   | 2            | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000                 |               | 3  |
|                | - 28     | 310-0075-000        | 2            | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----                   |               | 3  |
|                | 29       | AB406D              | 2            | TERMINAL, GRD V12615<br>306-1311-000<br>ATTACHING PARTS                             |               | 1  |
|                | - 30     | P313-0050-00<br>0   | 2            | NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000                            |               | 1  |
|                | - 31     | 310-0075-000        | 2            | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----                   |               | 1  |
|                | 32       | 763-1528-001        | 2            | COVER, EXCITER, UHF NO. 1<br>ATTACHING PARTS                                        |               | 1  |
|                | - 33     | MS51957-14          | 2            | SCREW, MACH., SST, PAN HD, 4-40 X<br>5/16 343-0134-000                              |               | 15 |
|                | - 34     | MS35338-78          | 2            | WASHER, LOCK, CRES, 0.115 ID,<br>0.212 OD 310-0279-000<br>-----*-----               |               | 15 |
|                | 35       | RC20GF332K          | 2            | RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                                 | R209          | 1  |
|                | 36       | GA3-9UUF0RM<br>5PCT | 2            | CAPACITOR, FXD, 3.9 UUF 5%, 500<br>VDCW V78488 913-2991-000                         | C214          | 1  |
|                | 37       | MS16562-194         | 2            | PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                                  |               | 1  |
|                | 38       | 193-0010-051        | 2            | CAPACITOR, VAR, 2.7 TO 30.6 UUF,<br>650 VACW V74970 922-1020-030<br>ATTACHING PARTS | C222          | 1  |
|                | - 39     | 1214-00-00-0<br>543 | 2            | WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000<br>-----*----- |               | 1  |

GROUP ASSEMBLY PARTS LIST

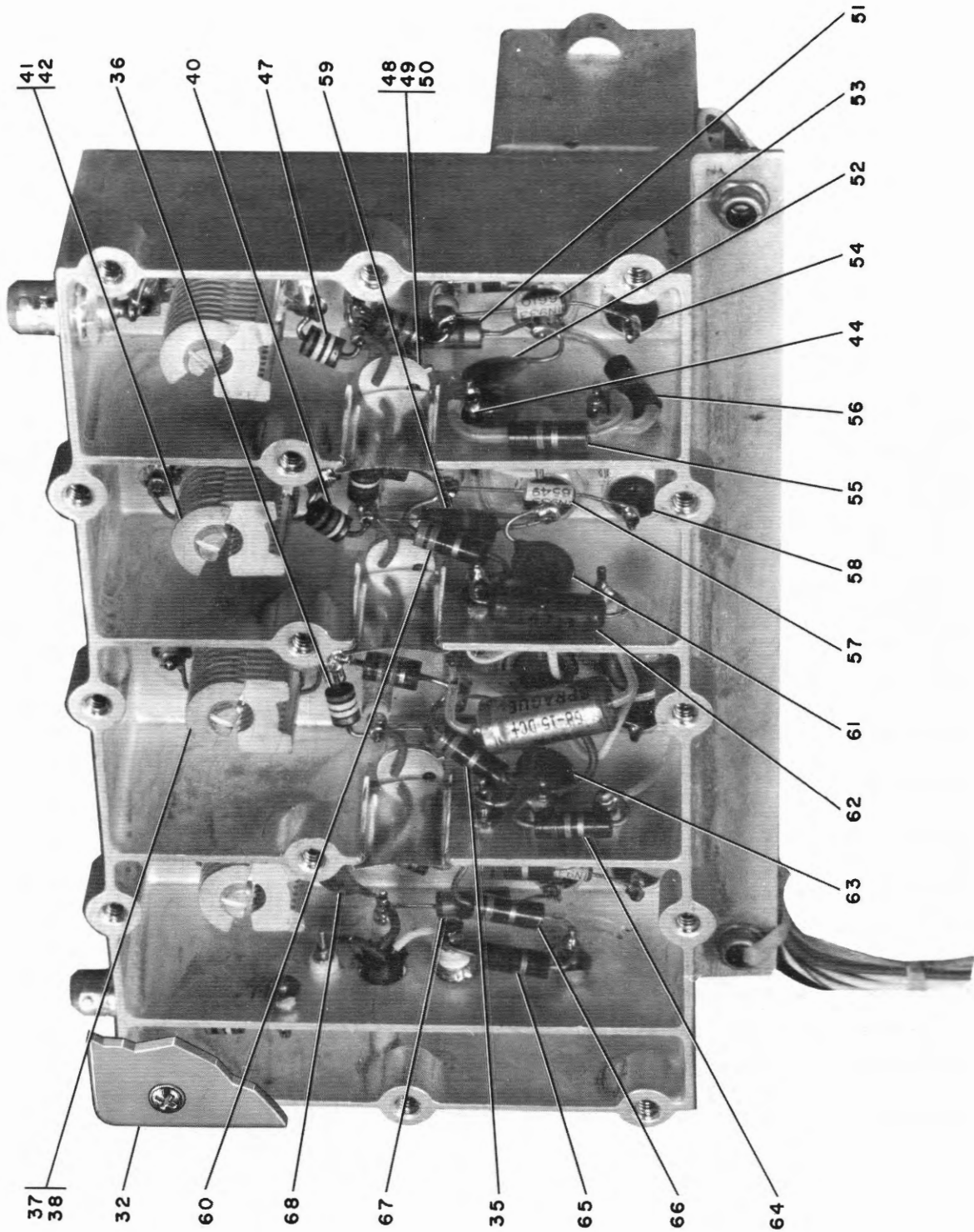


Figure 6-8. Transmitter UHF Exciter Subassembly (Sheet 2 of 4, Index 32 Through 68)

section 6  
parts list

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.               | NOMENCLATURE                                                                            | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|-----------------------|-----------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 8           | 40       | GA3-3UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 3.3 UUF 5%, 500<br>VDCW V78488 913-2989-000                           | C226                  | 1             |
| R              | 41       | MS16562-194           | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                                    |                       | 1             |
|                | 42       | 193-C010-051          | 2 CAPACITOR, VAR, 2.7 TO 30.6 UUF,<br>650 VACW V74970 922-1020-030                      | C236                  | 1             |
|                | - 43     | 1214-00-00-0<br>543   | ATTACHING PARTS<br>WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000 |                       | 1             |
|                | 44       | AB406D                | 2 TERMINAL, GRD V12615<br>306-1311-000                                                  |                       | 4             |
|                | - 45     | P313-C050-00<br>0     | 2 NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000                              |                       | 4             |
|                | - 46     | 310-C075-000          | 2 WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/                                    |                       | 4             |
|                | 47       | GA3-9UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 3.9 UUF 5%, 500<br>VDCW V78488 913-2991-000                           | C238                  | 1             |
|                | 48       | 763-1685-001          | 2 SHIELD, RF                                                                            |                       | 1             |
|                | 49       | 2N3866                | 2 TRANSISTOR 352-0671-010                                                               | Q204                  | 1             |
|                | 50       | 763-1687-001          | 2 HOLDER, TSTR                                                                          |                       | 1             |
|                | 51       | MS18130-4             | 2 COIL, RF, 0.47 UH 240-1565-000                                                        | L208                  | 1             |
| R              | 52       | 805-C14X5V01<br>03Z   | 2 CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000                | C239                  | 1             |
|                | 53       | JAN1N933              | 2 SEMICOND DEVICE 353-2051-000                                                          | CR204                 | 1             |
|                | 54       | FB2B471Z              | 2 CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-000                          | C242                  | 1             |
|                | 55       | RC20GF223K            | 2 RESISTOR, FXD, 22,000 OHMS 10%,<br>1/2 W 745-1408-000                                 | R215                  | 1             |
|                | 56       | RC20GF223K            | 2 RESISTOR, FXD, 22,000 OHMS 10%,<br>1/2 W 745-1408-000                                 | R217                  | 1             |
|                | 57       | JAN1N933              | 2 SEMICOND DEVICE 353-2051-000                                                          | CR203                 | 1             |
|                | 58       | FB2B471Z              | 2 CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                          | C230                  | 1             |
|                | 59       | MS18130-4             | 2 COIL, RF, 0.47 UH 240-1565-000                                                        | L206                  | 1             |
|                | 60       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                                   | R213                  | 1             |
|                | 61       | 805-C14X5V01<br>03Z   | 2 CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000                | C227                  | 1             |
|                | 62       | RN65D1471F            | 2 RESISTOR, FXD, 1470 OHMS 1%, 1/2 W<br>705-7104-000                                    | R230                  | 1             |
|                | 63       | 805-C14X5V01<br>03Z   | 2 CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000                | C212                  | 1             |
|                | 64       | RC20GF273K            | 2 RESISTOR, FXD, 27,000 OHMS 10%,<br>1/2 W 745-1412-000                                 | R227                  | 1             |
|                | 65       | RC20GF820K            | 2 RESISTOR, FXD, 82 OHMS 10%, 1/2 W<br>745-1307-000                                     | R202                  | 1             |
|                | 66       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                                   | R205                  | 1             |
|                | 67       | MS18130-4             | 2 COIL, RF, 0.47 UH 240-1565-000                                                        | L202                  | 1             |

GROUP ASSEMBLY PARTS LIST

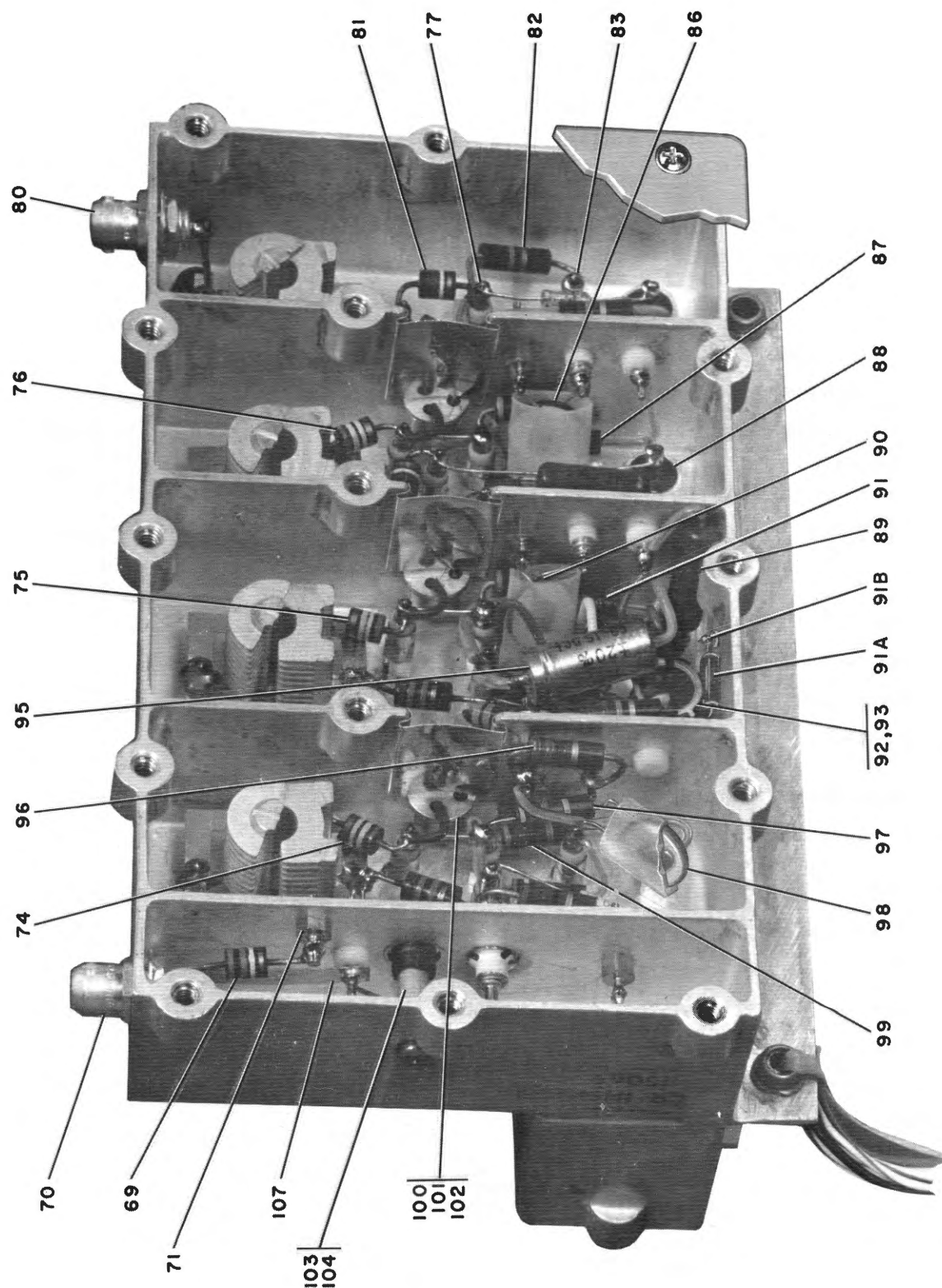


Figure 6-8. Transmitter UHF Exciter Subassembly (Sheet 3 of 4, Index 69 Through 107)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.                | INDENT. | NOMENCLATURE                                                        | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|-------------------------|---------|---------------------------------------------------------------------|-----------------------|---------------|
| 6- 8           | 68 CK60Aw102M           | 2       | CAPACITOR, FXD, 1000 UUF 20%, 1000<br>VDCW 913-1186-000             | 1                     |               |
|                | 69 GA3-3UUFQORM<br>5PCT | 2       | CAPACITOR, FXD, 3.3 UUF 5%, 500<br>VDCW V78488 913-2989-000         | 1                     |               |
|                | 70 0750                 | 2       | CONNECTOR, RECP V94375<br>357-9215-000                              | 1                     |               |
|                | 71 AB397-1              | 2       | TERMINAL, STUD V12615<br>306-1286-000                               | 1                     |               |
|                |                         |         | ATTACHING PARTS                                                     |                       |               |
| - 72           | P313-0050-00<br>0       | 2       | NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000            | 1                     |               |
| - 73           | 310-0075-000            | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----   | 1                     |               |
|                | 74 GA3-9UUFQORM<br>5PCT | 2       | CAPACITOR, FXD, 3.9 UUF 5%, 500<br>VDCW V78488 913-2991-000         | 1                     |               |
|                | 75 GA3-9UUFQORM<br>5PCT | 2       | CAPACITOR, FXD, 3.9 UUF 5%, 500<br>VDCW V78488 913-2991-000         | 1                     |               |
|                | 76 GA3-9UUFQORM<br>5PCT | 2       | CAPACITOR, FXD, 3.9 UUF 5%, 500<br>VDCW V78488 913-2991-000         | 1                     |               |
|                | 77 G4777-10             | 2       | TERMINAL, STUD V12615<br>306-1018-000                               | 18                    |               |
|                |                         |         | ATTACHING PARTS                                                     |                       |               |
| - 78           | P343-0298-00<br>0       | 2       | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000 | 18                    |               |
| - 79           | 310-0075-000            | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----   | 18                    |               |
|                | 80 0750                 | 2       | CONNECTOR, RECP V94375<br>357-9215-000                              | 1                     |               |
|                | 81 GA5-1UUFQORM<br>5PCT | 2       | CAPACITOR, FXD, 5.1 UUF 5%, 500<br>VDCW V78488 913-2994-000         | 1                     |               |
|                | 82 RC20GF223K           | 2       | RESISTOR, FXD, 22,000 OHMS 10%,<br>1/2 W 745-1408-000               | 1                     |               |
|                | 83 AB396-1              | 2       | TERMINAL, STUD V12615<br>306-1281-000                               | 5                     |               |
|                |                         |         | ATTACHING PARTS                                                     |                       |               |
| - 84           | P343-0298-00<br>0       | 2       | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000 | 5                     |               |
| - 85           | 310-0075-000            | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----   | 5                     |               |
|                | 86 RL6GIT               | 2       | RESISTOR, THRM, 84.4 OHMS 10%,<br>1.25 W V75263 714-3305-020        | 1                     |               |
|                | 87 RC20GF103K           | 2       | RESISTOR, FXD, 10,000 OHMS 10%,<br>1/2 W 745-1394-000               | 1                     |               |
|                | 88 FB2B471Z             | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010        | 1                     |               |
|                | 89 RN65D4221F           | 2       | RESISTOR, FXD, 4220 OHMS 1%, 1/2 W<br>705-7126-000                  | 1                     |               |
|                | 90 RL6GIT               | 2       | RESISTOR, THRM, 84.4 OHMS 10%,<br>1.25 W V75263 714-3305-020        | 1                     |               |
|                | 91 RC20GF152K           | 2       | RESISTOR, FXD, 1500 OHMS 10%, 1/2<br>W 745-1359-000                 | 1                     |               |
| R              | 91A RC42BF561K          | 2       | RESISTOR, FXD, 560 OHMS 10%,<br>2 W 745-5342-000                    | 1                     |               |
|                |                         |         | EFF MCN 298 SB 4                                                    |                       |               |
| R              | 91B TF300               | 2       | TERMINAL, STUD V98291<br>306-1018-000                               | 1                     |               |
|                |                         |         | EFF MCN 298 SB 4                                                    |                       |               |
|                |                         |         | ATTACHING PARTS                                                     |                       |               |
| R              | - 91C P343-0298-00<br>0 | 2       | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000 | 1                     |               |
| R              | - 91D 310-0075-000      | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----   | 1                     |               |
|                | 92 2N1711               | 2       | TRANSISTOR 352-0400-000                                             | 1                     |               |

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.               | NOMENCLATURE                                                                               | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|-----------------------|--------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 8           | 93       | TXB2P032-037<br>-3B   | 2 HOLDER, SEMICOND DEVICE V98978<br>352-9884-000<br>ATTACHING PARTS                        | 1                     |               |
| -              | 94       | IMC302                | 2 WASHER, NM, MICA, 1/8 ID, 3/8 OD<br>V10583 302-0336-000<br>-----*-----                   | 1                     |               |
|                | 95       | 150D686X0015<br>R2    | 2 CAPACITOR, FXD, 68 UF 20%, 15 VDCW C218<br>V56289 184-7655-000                           | 1                     |               |
|                | 96       | RC20GF682K            | 2 RESISTOR, FXD, 6800 OHMS 10%, 1/2 R226<br>W 745-1387-000                                 | 1                     |               |
|                | 97       | RC20GF472K            | 2 RESISTOR, FXD, 4700 OHMS 10%, 1/2 R208<br>W 745-1380-000                                 | 1                     |               |
|                | 98       | RL6GIT                | 2 RESISTOR, THRM, 84.4 OHMS 10%, RT201<br>1.25 W V75263 714-3305-020                       | 1                     |               |
|                | 99       | RC20GF391K            | 2 RESISTOR, FXD, 390 OHMS 10%, 1/2 W R207<br>745-1335-000                                  | 1                     |               |
|                | 100      | 763-1685-001          | 2 SHIELD, RF                                                                               | 1                     |               |
|                | 101      | 2N3866                | 2 TRANSISTOR 352-0671-010 Q202                                                             | 1                     |               |
|                | 102      | 763-1687-001          | 2 HOLDER, TSTR                                                                             | 1                     |               |
|                | 103      | 2N3563                | 2 TRANSISTOR 352-0630-010 Q201                                                             | 1                     |               |
|                | 104      | TXB2-019-028<br>B     | 2 HOLDER, SEMICOND DEVICE V98978<br>352-9984-010<br>ATTACHING PARTS                        | 1                     |               |
| -              | 105      | P343-0303-00          | 2 SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 1/2 V77250 343-0303-000                       | 1                     |               |
| -              | 106      | 541-5957-002          | 2 SPACER, SLV<br>-----*-----                                                               | 1                     |               |
|                | 107      | 763-1689-001          | 2 LEAD, ELECTRICAL                                                                         | 1                     |               |
|                | 108      | MS16562-194           | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                                       | 1                     |               |
|                | 109      | 193-0010-051          | 2 CAPACITOR, VAR, 2.7 TO 30.6 UUF, C208<br>650 VACW V74970 922-1020-030<br>ATTACHING PARTS | 1                     |               |
| -              | 110      | 1214-00-00-0<br>543   | 2 WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000<br>-----*-----      | 1                     |               |
|                | 111      | 763-1688-001          | 2 COIL, RF L203                                                                            | 1                     |               |
|                | 112      | GA-68UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 0.68 UUF 5%, 500 C215<br>VDCW V78488 913-2974-000                        | 1                     |               |
|                | 113      | RC07GF153K            | 2 RESISTOR, FXD, 15,000 OHMS 10%, R233<br>1/4 W 745-0791-000                               | 1                     |               |
|                | 114      | 763-1688-001          | 2 COIL, RF L205                                                                            | 1                     |               |
|                | 115      | 763-1685-001          | 2 SHIELD, RF                                                                               | 1                     |               |
|                | 116      | 2N3866                | 2 TRANSISTOR 352-0671-010 Q203                                                             | 1                     |               |
|                | 117      | 763-1687-001          | 2 HOLDER, TSTR                                                                             | 1                     |               |
|                | 118      | RC07GF153K            | 2 RESISTOR, FXD, 15,000 OHMS 10%, R234<br>1/4 W 745-0791-000                               | 1                     |               |
|                | 119      | GA-68UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 0.68 UUF 5%, 500 C229<br>VDCW V78488 913-2974-000                        | 1                     |               |
|                | 120      | GA5-1UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 5.1 UUF 5%, 500 C232<br>VDCW V78488 913-2994-000                         | 1                     |               |
|                | 121      | 763-1688-001          | 2 COIL, RF L207                                                                            | 1                     |               |
|                | 122      | MS16562-194           | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                                       | 1                     |               |
|                | 123      | 193-0010-051          | 2 CAPACITOR, VAR, 2.7 TO 30.6 UUF, C247<br>650 VDCW V74970 922-1020-030                    | 1                     |               |

GROUP ASSEMBLY PARTS LIST

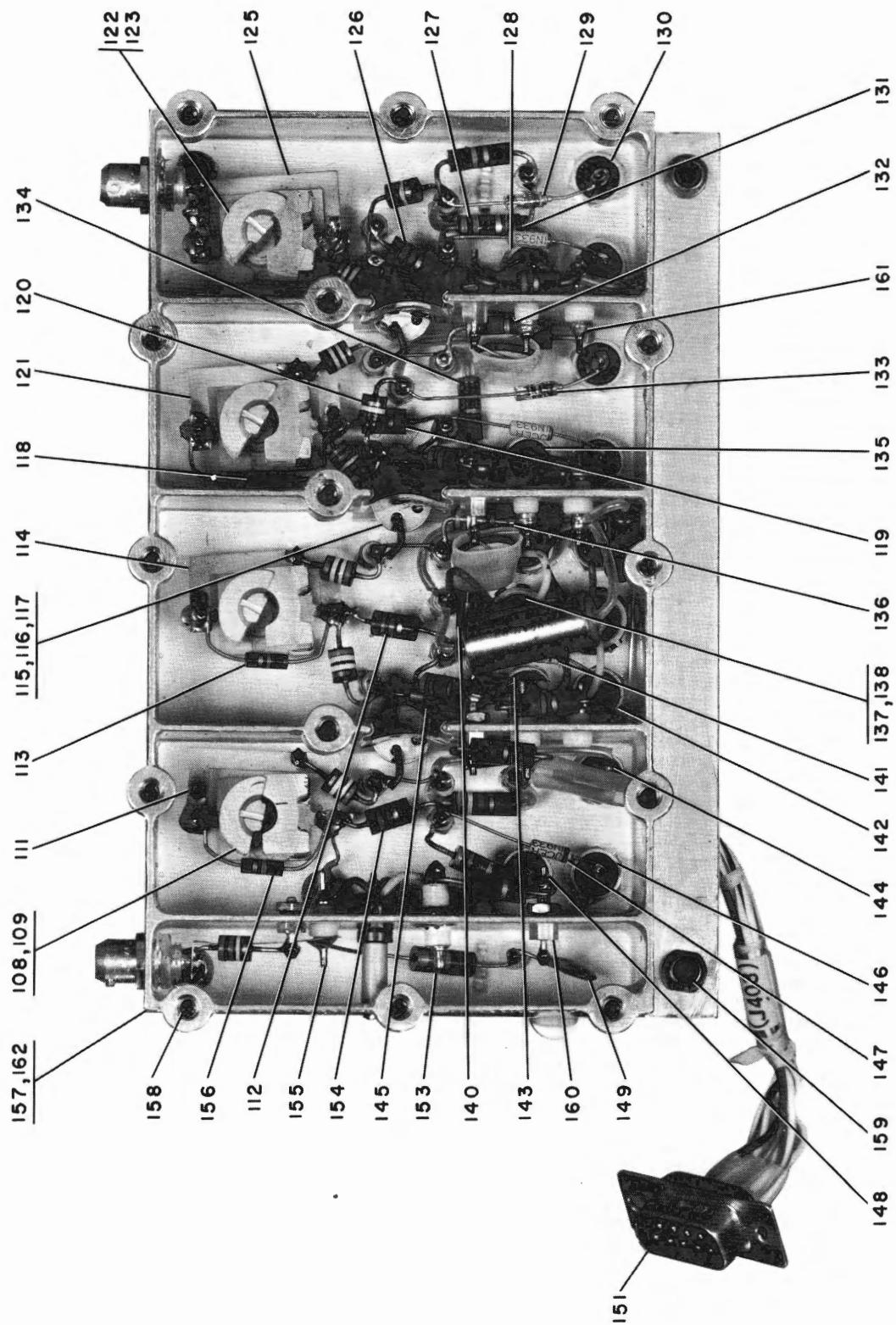


Figure 6-8. Transmitter UHF Exciter Subassembly (Sheet 4 of 4, Index 108 Through 162)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.            | INDENT. | NOMENCLATURE                                                                              | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|---------------------|---------|-------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 8           |                     |         | ATTACHING PARTS                                                                           |                       |               |
| -124           | 1214-00-00-0<br>543 | 2       | WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000<br>-----*-----       | 1                     |               |
| 6- 8 -124      | 1214-00-00-0<br>543 | 2       | WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000                      | 1                     |               |
| 125            | 763-1691-001        | 2       | COIL, RF, NC. 2                                                                           | L209                  | 1             |
| 126            | GA-68UUF0RM<br>5PCT | 2       | CAPACITOR, FXD, 0.68 UUF 5%, 500<br>VDCW V78488 913-2974-000                              | C241                  | 1             |
| 127            | RC20GF332K          | 2       | RESISTOR, FXD, 3300 OHMS 10%, 1/2<br>W 745-1373-000                                       | R220                  | 1             |
| 128            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C240                  | 1             |
| 129            | 1N457               | 2       | SEMICOND DEVICE 353-0204-000                                                              | CR206                 | 1             |
| 130            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C235                  | 1             |
| 131            | RC20GF223K          | 2       | RESISTOR, FXD, 22,000 OHMS 10%,<br>1/2 W 745-1408-000                                     | R223                  | 1             |
| 132            | RC20GF471K          | 2       | RESISTOR, FXD, 470 OHMS 10%, 1/2 W<br>745-1338-000                                        | R218                  | 1             |
| 133            | 1N457               | 2       | SEMICOND DEVICE 353-0204-000                                                              | CR205                 | 1             |
| 134            | RC20GF682K          | 2       | RESISTOR, FXD, 6800 OHMS 10%, 1/2<br>W 745-1387-000                                       | R219                  | 1             |
| 135            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C228                  | 1             |
| R 136          | RC20GF391K          | 2       | RESISTOR, FXD, 390 OHMS 10%, 1/2 W<br>745-1335-000                                        | R211                  | 1             |
| 137            | 2N1711              | 2       | TRANSISTOR 352-0400-000                                                                   | Q205                  | 1             |
| 138            | TXB2P032-037<br>-3B | 2       | HOLDER, SEMICOND DEVICE V98978<br>352-9884-000                                            |                       | 1             |
| -139           | IMC302              | 2       | ATTACHING PARTS<br>WASHER, NM, MICA, 1/8 ID, 3/8 OD<br>V10583 302-0336-000<br>-----*----- | 1                     |               |
| 140            | RC20GF472K          | 2       | RESISTOR, FXD, 4700 OHMS 10%, 1/2<br>W 745-1380-000                                       | R212                  | 1             |
| 141            | JAN1N933            | 2       | SEMICOND DEVICE 353-2051-000                                                              | CR202                 | 1             |
| 142            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C216                  | 1             |
| 143            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C213                  | 1             |
| 144            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C211                  | 1             |
| 145            | MS18130-4           | 2       | COIL, RF, 0.47 UH 240-1565-000                                                            | L204                  | 1             |
| 146            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-000                              | C206                  | 1             |
| 147            | JAN1N933            | 2       | SEMICOND DEVICE 353-2051-000                                                              | CR201                 | 1             |
| 148            | FB2B471Z            | 2       | CAPACITOR, FXD, 470 UUF 20%, 500<br>VDCW V01121 913-4235-010                              | C202                  | 1             |
| 149            | 805-014X5V01<br>03Z | 2       | CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000                    | C225                  | 1             |
| -150           | 767-7428-001        | 2       | WIRING HARNESS, BRANCHED, UHF<br>EXCITER                                                  |                       | 1             |
| 151            | DE9PC33             | 3       | CONNECTOR, RECP V71468<br>371-0168-000                                                    | P203                  | 1             |
| -152           | 20419               | 3       | SCREW LOCK ASSY V71468<br>371-0040-000                                                    |                       | 2             |
| 153            | MS18130-4           | 2       | COIL, RF, 0.47 UH 240-1565-000                                                            | L201                  | 1             |

section 6  
parts list

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.      | NOMENCLATURE                                                   | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|--------------|----------------------------------------------------------------|-----------------------|---------------|
| 6- 8           | 154      | GA-68UUF0RM  | 2 CAPACITOR, FXD, 0.68 UUF 5%, 500 C205                        | 1                     |               |
|                |          | 5PCT         | VDCW V78488 913-2974-000                                       |                       |               |
|                | 155      | 2465-008W5T0 | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C201                       | 1                     |               |
|                |          | 102P         | VDCW V72982 913-3208-000                                       |                       |               |
|                | 156      | RC07GF153K   | 2 RESISTOR, FXD, 15,000 OHMS 10%, R232                         | 1                     |               |
|                |          |              | 1/4 W 745-0791-000                                             |                       |               |
|                | 157      | 767-7427-001 | 2 CHASSIS, ELECTRICAL EQUIP.                                   | 1                     |               |
|                | 158      | MS122076     | 3 INSERT, SCR THD, CRES, 4-40 X 0.112 012-1625-000             | 23                    |               |
|                | 159      | F12NCFMA2-62 | 3 NUT, SELF-LKG, CLINCH, CAD. PL STL, 6-32 V72962 333-0842-000 | 4                     |               |
|                | 160      | SL173-197    | 3 TERMINAL, STANDOFF V12615 306-1261-000                       | 4                     |               |
|                | 161      | SL174-198    | 3 TERMINAL, FEEDTHRU V12615 306-1271-000                       | 5                     |               |
|                | 162      | 763-1543-001 | 3 CHASSIS, ELECTRICAL EQUIP., UHF EXCITER                      | 1                     |               |
| 6- 9 -         | 0        | 528-0605-001 | 1 FREQUENCY MULTIPLIER OSCILLATOR SEE FIG. 6-1-149 FOR NHA     | REF                   |               |
|                | 1        | 905-C007     | 2 OVEN, XTAL V75378 292-0307-010 Z1                            | 1                     |               |
|                | 2        | 763-1516-001 | 2 COVER, OSC-DBLR, NO. 2 ATTACHING PARTS                       | 1                     |               |
| -              | 3        | MS51957-14   | 2 SCREW, MACH., SST, PAN HD, 4-40 X 5/16 343-0134-000          | 6                     |               |
| -              | 4        | MS35338-78   | 2 WASHER, LOCK, CRES, 0.115 ID, 0.212 OD 310-0279-000          | 6                     |               |
|                |          |              | -----*                                                         |                       |               |
|                | 5        | MS18130-12   | 2 COIL, RF, 2.2 UH 240-1572-000 L15                            | 1                     |               |
|                | 6        | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C29                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 7        | MS18130-17   | 2 COIL, RF, 5.6 UH 240-1577-000 L6                             | 1                     |               |
|                | 8        | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C23                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 9        | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C24                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 10       | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C26                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 11       | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C30                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 12       | MS18130-14   | 2 COIL, RF, 3.3 UH 240-1574-000 L12                            | 1                     |               |
|                | 13       | MS18130-17   | 2 COIL, RF, 5.6 UH 240-1577-000 L8                             | 1                     |               |
|                | 14       | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C27                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 15       | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C42                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 16       | MS18130-14   | 2 COIL, RF, 3.3 UH 240-1574-000 L11                            | 1                     |               |
|                | 17       | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C37                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 18       | FB2B102W     | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C41                        | 1                     |               |
|                |          |              | VDCW V01121 913-4235-020                                       |                       |               |
|                | 19       | MS18130-12   | 2 COIL, RF, 2.2 UH 240-1572-000 L16                            | 1                     |               |

GROUP ASSEMBLY PARTS LIST

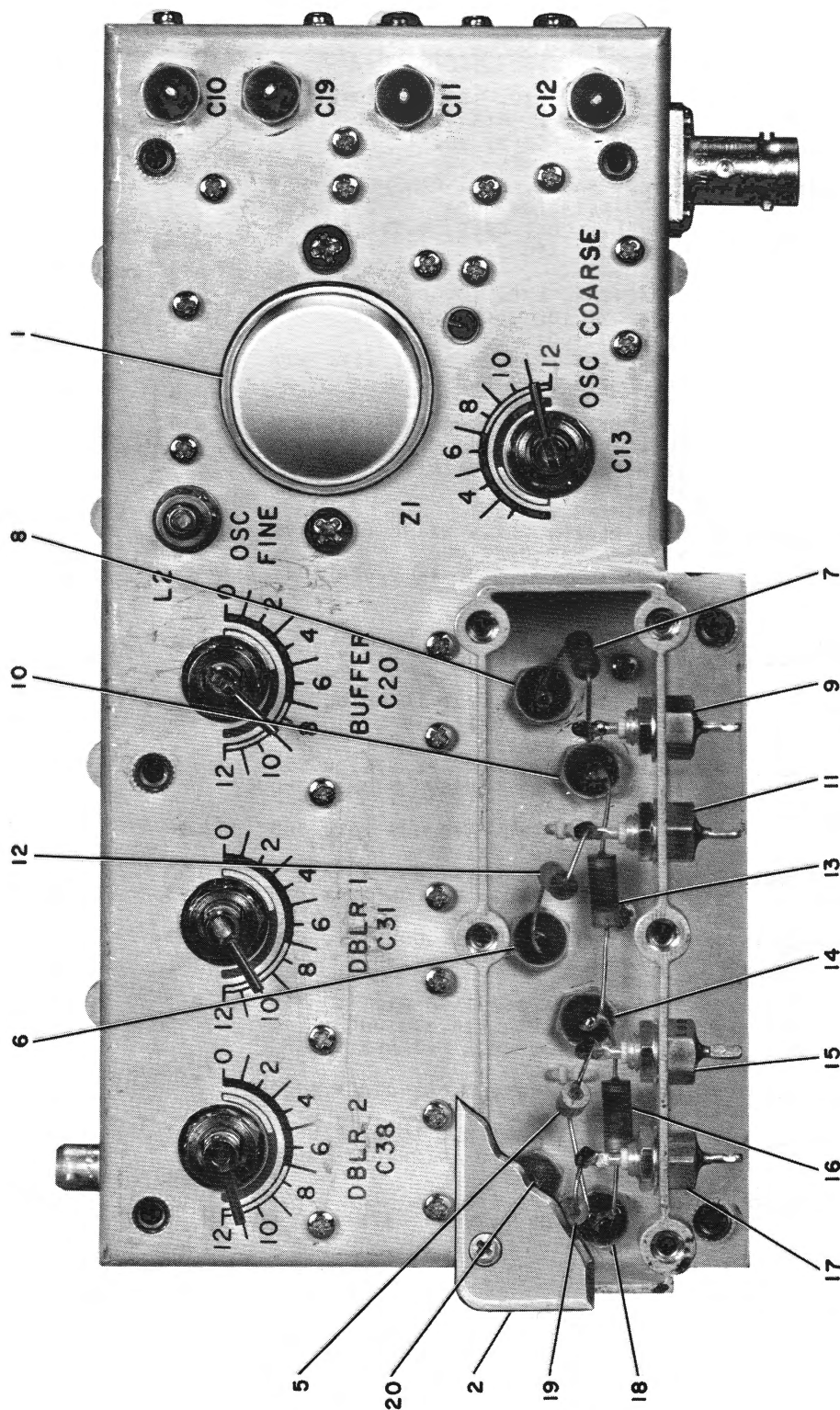


Figure 6-9. Frequency Multiplier Oscillator (Sheet 1 of 4, Index 1 Through 20)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.         | INDENT.                                                             | NOMENCLATURE                                                           | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|------------------|---------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------|---------------|
| 6- 9           | 20               | FB2B102W                                                            | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C36                                | 1                     |               |
|                | 21               | 763-1515-001                                                        | 2 VDCW V01121 913-4235-020                                             | 1                     |               |
| - 22           | MS51957-14       | 2 COVER, OSC-DBLR, NO. 1                                            | 1                                                                      |                       |               |
|                |                  | 2 ATTACHING PARTS                                                   | 17                                                                     |                       |               |
| - 23           | MS35338-78       | 2 SCREW, MACH., SST, PAN HD, 4-40 X 5/16 343-0134-000               | 17                                                                     |                       |               |
|                |                  | 2 WASHER, LOCK, CRES, 0.115 ID, 0.212 OD 310-0279-000               | 17                                                                     |                       |               |
|                |                  | -----*                                                              |                                                                        |                       |               |
|                | 24               | 805-014X5V01 03Z                                                    | 2 CAPACITOR, FXD, 10,000 UUF P80M20%, 100 VDCW V72982 913-3680-001 C17 | 1                     |               |
|                | 25               | CM05D391K03                                                         | 2 CAPACITOR, FXD, 390 UUF 10%, 500 VDCW 912-2859-000 C1                | 1                     |               |
|                | 26               | 763-1652-001                                                        | 2 CCIL, RF L2                                                          | 1                     |               |
|                | 27               | CM05D101K03                                                         | 2 CAPACITOR, FXD, 100 UUF 10%, 500 VDCW 912-2817-000 C15               | 1                     |               |
|                | 28               | AB397-1                                                             | 2 TERMINAL, STUD V12615 306-1286-000                                   | 3                     |               |
|                |                  | 2 ATTACHING PARTS                                                   |                                                                        |                       |               |
| - 29           | P313-0050-00 0   | 2 NUT, PLAIN, HEX., NI PL BRS, 2-56 V77250 313-0050-000             | 3                                                                      |                       |               |
| - 30           | 310-0075-000     | 2 WASHER, LOCK, SI BRZ, 0.086 ID, 0.165 OD /COML/                   | 3                                                                      |                       |               |
|                |                  | -----*                                                              |                                                                        |                       |               |
|                | 31               | JAN2N706                                                            | 2 TRANSISTOR 352-9058-000 Q2                                           | 1                     |               |
|                | 32               | MS16562-194                                                         | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG 311-0421-000                      | 1                     |               |
|                | 33               | PL4788                                                              | 2 CAPACITOR, VAR, 3.7 TO 45 UUF, 600 VACW V71313 922-1019-020 C20      | 1                     |               |
|                |                  | 2 ATTACHING PARTS                                                   |                                                                        |                       |               |
| - 34           | 1214-00-00-0 543 | 2 WASHER, LOCK, CAD. PL STL, 0.256 ID, 0.478 OD V78189 373-1080-000 | 1                                                                      |                       |               |
|                |                  | -----*                                                              |                                                                        |                       |               |
|                | 35               | 19C372                                                              | 2 CAPACITOR, FXD, 470 UUF 20%, 500 VDCW V56289 913-3007-000 C16        | 1                     |               |
|                | 36               | 763-1546-001                                                        | 2 CCIL, RF, OSC DBLR, NO. 3 L9                                         | 1                     |               |
|                | 37               | CK12AX102M                                                          | 2 CAPACITOR, FXD, 1000 UUF 20%, 100 VDCW 913-3019-000 C43              | 1                     |               |
|                | 38               | 805-014X5V01 03Z                                                    | 2 CAPACITOR, FXD, 10,000 UUF P80M20%, 100 VDCW V72982 913-3680-000 C33 | 1                     |               |
|                | 39               | 2N3563                                                              | 2 TRANSISTOR 352-0630-010 Q4                                           | 1                     |               |
|                | 40               | 805-014X5V01 03Z                                                    | 2 CAPACITOR, FXD, 10,000 UUF P80M20%, 100 VDCW V72982 913-3680-000 C45 | 1                     |               |
|                | 41               | MS16562-194                                                         | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG 341-0421-000                      | 1                     |               |
|                | 42               | 160-130-55                                                          | 2 CAPACITOR, VAR, 3.6 TO 27.7 UUF, 850 VACW V74970 922-1022-010 C38    | 1                     |               |
|                |                  | 2 ATTACHING PARTS                                                   |                                                                        |                       |               |
| - 43           | 1214-00-00-0 543 | 2 WASHER, LOCK, CAD. PL STL, 0.256 ID, 0.478 OD V78189 373-1080-000 | 1                                                                      |                       |               |
|                |                  | -----*                                                              |                                                                        |                       |               |

GROUP ASSEMBLY PARTS LIST

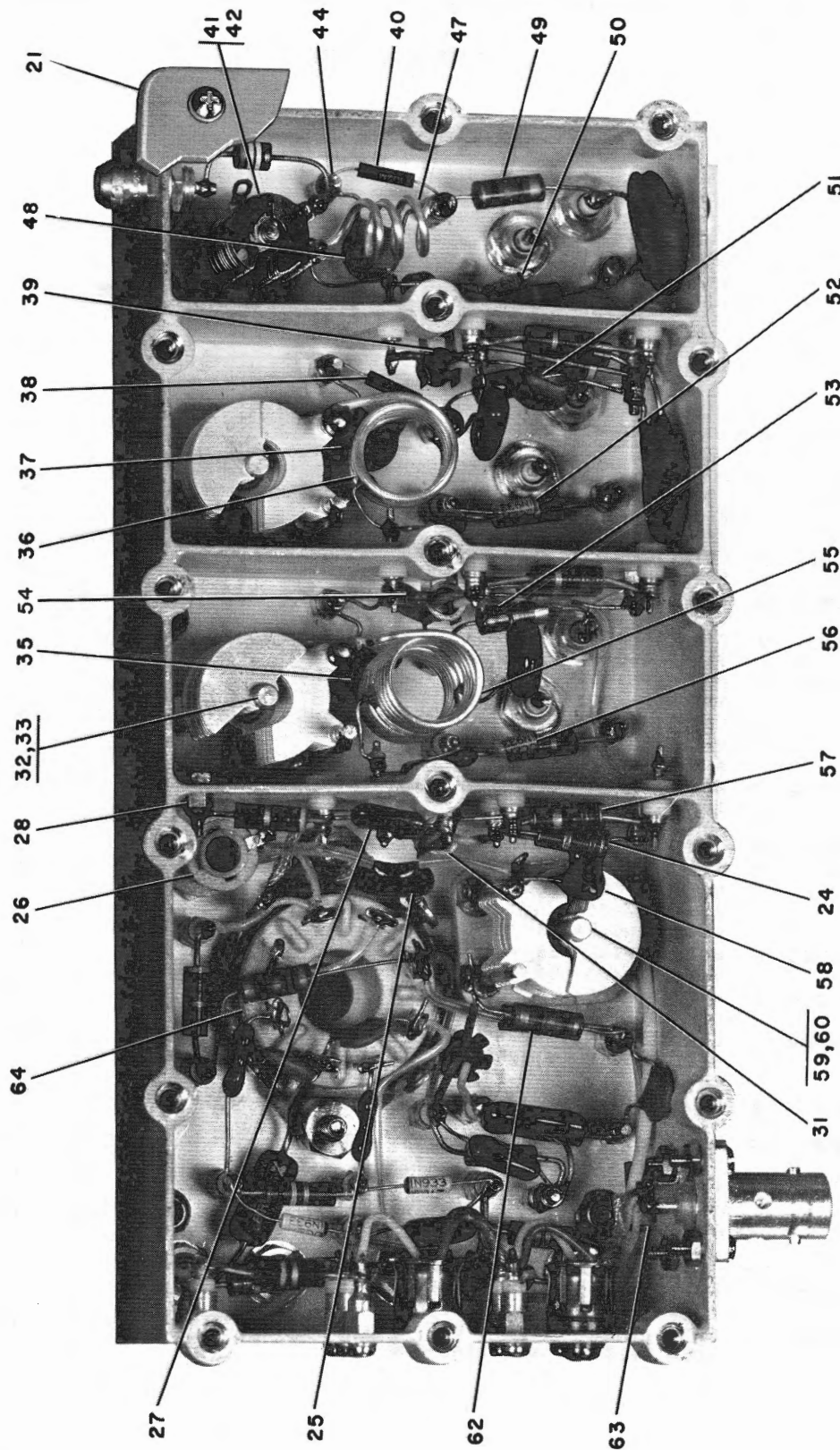


Figure 6-9. Frequency Multiplier Oscillator (Sheet 2 of 4, Index 21 Through 64)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.            | INDENT. | NOMENCLATURE                                                                                           | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|---------------------|---------|--------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 9 44        | AB396-1             | 2       | TERMINAL, STUD V12615<br>306-1281-000                                                                  | 9                     |               |
| - 45           | P343-0298-00<br>0   | 2       | ATTACHING PARTS<br>SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000                 | 9                     |               |
| - 46           | 310-0075-000        | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/<br>-----*-----                                      | 9                     |               |
| 47             | 763-1544-001        | 2       | COIL, RF, OSC DBLR, NO. 1                                                                              | L13                   | 1             |
| 48             | CK12AX102M          | 2       | CAPACITOR, FXD, 1000 UUF 20%, 100<br>VDCW 913-3019-000                                                 | C40                   | 1             |
| 49             | MS1813C-12          | 2       | COIL, RF, 2.2 UH 240-1572-000                                                                          | L14                   | 1             |
| 50             | JAN1N933            | 2       | SEMICONV DEVICE 353-2051-000                                                                           | CR5                   | 1             |
| 51             | MS1813C-14          | 2       | COIL, RF, 3.3 UH 240-1574-000                                                                          | L10                   | 1             |
| 52             | JAN1N933            | 2       | SEMICONV DEVICE 353-2051-000                                                                           | CR4                   | 1             |
| 53             | MS1813C-17          | 2       | COIL, RF, 5.6 UH 240-1577-000                                                                          | L7                    | 1             |
| 54             | 805-014X5V01<br>03Z | 2       | CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000                                 | C22                   | 1             |
| 55             | 763-1545-001        | 2       | COIL, RF, OSC DBLR, NO. 2                                                                              | L5                    | 1             |
| 56             | JAN1N933            | 2       | SEMICONV DEVICE 353-2051-000                                                                           | CR3                   | 1             |
| 57             | RC20GF272K          | 2       | RESISTOR, FXD, 2700 OHMS 10%, 1/2<br>W 745-1370-000                                                    | R14                   | 1             |
| 58             | CM05C050K03         | 2       | CAPACITOR, FXD, 5 UUF 10%, 500<br>VDCW 912-2751-000                                                    | C14                   | 1             |
| 59             | MS16562-194         | 2       | PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                                                     |                       | 1             |
| 60             | PL4788              | 2       | CAPACITOR, VAR, 3.7 TO 45 UUF, 600<br>VACW V71313 922-1019-020                                         | C13                   | 1             |
| - 61           | 1214-00-00-0<br>543 | 2       | ATTACHING PARTS<br>WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000<br>-----*----- |                       | 1             |
| 62             | MS1813C-12          | 2       | COIL, RF, 2.2 UH 240-1572-000                                                                          | L3                    | 1             |
| 63             | MS1813C-17          | 2       | COIL, RF, 5.6 UH 240-1577-000                                                                          | L4                    | 1             |
| 64             | TS101C01            | 2       | SOCKET, ELECTRON TUBE<br>220-1122-000                                                                  | XZ1                   | 1             |
| - 65           | P313-C053-00        | 2       | ATTACHING PARTS<br>NUT, PLAIN, HEX., NI PL BRS, 6-32<br>V77250 313-0053-000                            |                       | 2             |
| - 66           | 310-C078-000        | 2       | WASHER, LOCK, SI BRZ, 0.138 ID,<br>0.239 OD /COML/                                                     |                       | 2             |
| - 67           | P343-0329-00<br>0   | 2       | SCREW, MACH., NI PL BRS, PAN HD,<br>6-32 X 5/16 V77250 343-0329-000<br>-----*-----                     |                       | 2             |
| 68             | RC20GF183K          | 2       | RESISTOR, FXD, 18,000 OHMS 10%,<br>1/2 W 745-1405-000                                                  | R11                   | 1             |
| 69             | RC20GF183K          | 2       | RESISTOR, FXD, 18,000 OHMS 10%,<br>1/2 W 745-1405-000                                                  | R10                   | 1             |
| 70             | 997F14              | 2       | RESISTOR, THRM, 10,000 OHMS 10%,<br>0.5 W V10646 714-1738-000                                          | RT1                   | 1             |
| 71             | FB2B102W            | 2       | CAPACITOR, FXD, 1000 UUF GMV, 500<br>VDCW V01121 913-4235-020                                          | C10                   | 1             |
| 72             | JAN1N933            | 2       | SEMICONV DEVICE 353-2051-000                                                                           | CR1                   | 1             |
| 73             | DM15F471K03         | 2       | CAPACITOR, FXD, 470 UUF 10%, 500<br>VDCW V72136 912-2865-000                                           | C21                   | 1             |
| 74             | DM15F471K03         | 2       | CAPACITOR, FXD, 470 UUF 10%, 500<br>VDCW V72136 912-2865-000                                           | C32                   | 1             |

GROUP ASSEMBLY PARTS LIST

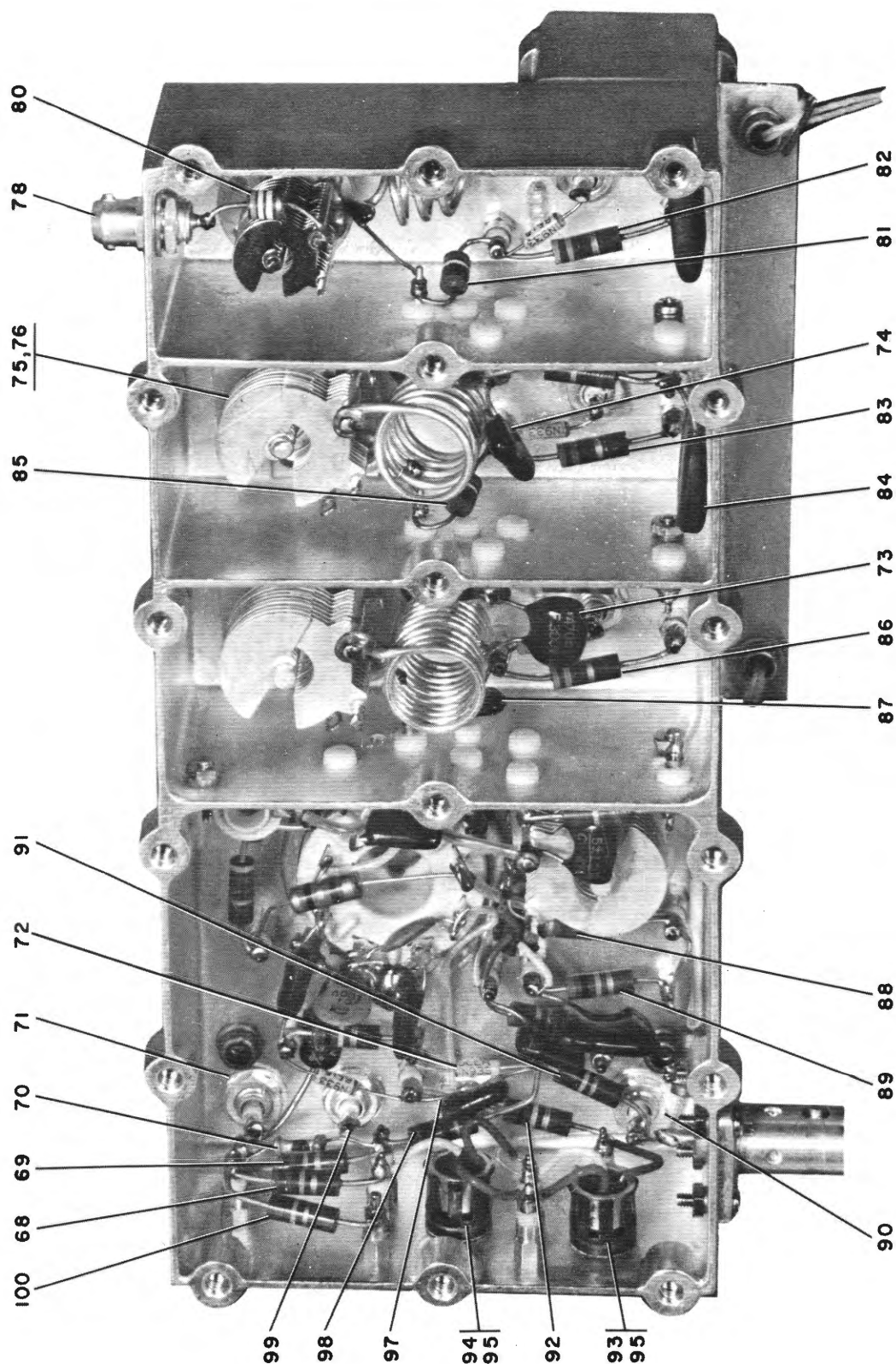


Figure 6-9. Frequency Multiplier Oscillator (Sheet 3 of 4, Index 68 Through 100)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.               | NOMENCLATURE                                                                                             | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|-----------------------|----------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 9           | 75       | MS16562-194           | 2 PIN, SPG, CRES, 0.062 DIA X 1/2 LG<br>311-0421-000                                                     | 1                     |               |
|                | 76       | PL4787                | 2 CAPACITOR, VAR, 3.4 TO 32 UUF, 600 C31<br>VACW V71313 922-1019-010                                     | 1                     |               |
|                | - 77     | 1214-00-00-0<br>543   | 2 ATTACHING PARTS<br>WASHER, LOCK, CAD. PL STL, 0.256<br>ID, 0.478 OD V78189 373-1080-000<br>-----*----- | 1                     |               |
|                | 78       | 0750                  | 2 CONNECTOR, RECP V94375 J4<br>357-9215-000                                                              | 1                     |               |
|                | - 79     | AN936B416B            | 2 ATTACHING PARTS<br>WASHER, LOCK, CAD. PL P BRZ, 0.256<br>ID, 0.506 OD 373-7050-000<br>-----*-----      | 1                     |               |
|                | 80       | GA3-9UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 3.9 UUF 5%, 500 C39<br>VDCW V78488 913-2991-000                                        | 1                     |               |
|                | 81       | GA1-5UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 0.68 UUF 5%, 500 C35<br>VDCW V78488 913-2981-000                                       | 1                     |               |
|                | 82       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2 R25<br>W 745-1373-000                                                | 1                     |               |
|                | 83       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2 R21<br>W 745-1373-000                                                | 1                     |               |
|                | 84       | 825-213X5V01<br>04Z   | 2 CAPACITOR, FXD, 100,000 UUF C59<br>P80M20%, 200 VDCW V72982<br>913-3681-000                            | 1                     |               |
|                | 85       | GA1-5UUF PORM<br>5PCT | 2 CAPACITOR, FXD, 1.5 UUF 5%, 500 C28<br>VDCW V78488 913-2981-000                                        | 1                     |               |
|                | 86       | RC20GF332K            | 2 RESISTOR, FXD, 3300 OHMS 10%, 1/2 R17<br>W 745-1373-000                                                | 1                     |               |
|                | 87       | CM05C050K03           | 2 CAPACITOR, FXD, 5 UUF 10%, 500 C18<br>VDCW 912-2751-000                                                | 1                     |               |
|                | 88       | RC20GF472K            | 2 RESISTOR, FXD, 4700 OHMS 10%, 1/2 R4<br>W 745-1380-000                                                 | 1                     |               |
|                | 89       | RC20GF103K            | 2 RESISTOR, FXD, 10,000 OHMS 10%,<br>1/2 W 745-1394-000 R3                                               | 1                     |               |
|                | 90       | FB2B102W              | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C12<br>VDCW V01121 913-4235-020                                      | 1                     |               |
|                | 91       | RC20GF224K            | 2 RESISTOR, FXD, 220,000 OHMS 10%,<br>1/2 W 745-1450-000 R8                                              | 1                     |               |
|                | 92       | RC20GF104K            | 2 RESISTOR, FXD, 100,000 OHMS 10%,<br>1/2 W 745-1436-000 R7                                              | 1                     |               |
|                | 93       | JAN2N1711             | 2 TRANSISTOR 352-9097-000 Q5                                                                             | 1                     |               |
|                | 94       | JAN2N1711             | 2 TRANSISTOR 352-9097-000 Q6                                                                             | 1                     |               |
|                | 95       | TXB2P032-037<br>-3B   | 2 HCLDR, SEMICOND DEVICE V98978<br>352-9884-000                                                          | 2                     |               |
|                | - 96     | IMC302                | 2 ATTACHING PARTS<br>WASHER, NM, MICA, 1/8 ID, 3/8 OD<br>V10583 302-0336-000<br>-----*-----              | 2                     |               |
|                | 97       | FB2B102W              | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C11<br>VDCW V01121 913-4235-020                                      | 1                     |               |
|                | 98       | RC20GF822K            | 2 RESISTOR, FXD, 8200 OHMS 10%, 1/2 R9<br>W 745-1391-000                                                 | 1                     |               |
|                | 99       | FB2B102W              | 2 CAPACITOR, FXD, 1000 UUF GMV, 500 C19<br>VDCW V01121 913-4235-020                                      | 1                     |               |

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO.            | INDENT. | NOMENCLATURE                                                            | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|---------------------|---------|-------------------------------------------------------------------------|-----------------------|---------------|
| 6- 9 100       | RC20GF223K          | 2       | RESISTOR, FXD, 22,000 OHMS 10%,<br>1/2 W 745-1408-000                   | R12                   | 1             |
| 101            | JAN1N933            | 2       | SEMICOND DEVICE 353-2051-000                                            | CR2                   | 1             |
| 102            | RW69V8R2            | 2       | RESISTOR, FXD, 8.2 OHMS 5%, 3 W<br>747-5318-000                         | R6                    | 1             |
| 103            | 805-014X5V01<br>03Z | 2       | CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000  | C9                    | 1             |
| 104            | CM05C050K03         | 2       | CAPACITOR, FXD, 5 UUF 10%, 500<br>VDCW 912-2751-000                     | C6                    | 1             |
| 105            | RC20GF471K          | 2       | RESISTOR, FXD, 470 OHMS 10%, 1/2 W<br>745-1338-000                      | R2                    | 1             |
| 106            | MS1813C-8           | 2       | COIL, RF, 1 UH 240-1568-000                                             | L1                    | 1             |
| 107            | RC20GF470K          | 2       | RESISTOR, FXD, 47 OHMS 10%, 1/2 W<br>745-1296-000                       | R15                   | 1             |
| 108            | JAN2N706            | 2       | TRANSISTOR 352-9058-000                                                 | Q3                    | 1             |
| 109            | RC20GF272K          | 2       | RESISTOR, FXD, 2700 OHMS 10%,<br>1/2 W 745-1370-000                     | R19                   | 1             |
| 110            | 805-014X5V01<br>03Z | 2       | CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000  | C34                   | 1             |
| 111            | RC20GF471K          | 2       | RESISTOR, FXD, 470 OHMS 10%, 1/2 W<br>745-1338-000                      | R24                   | 1             |
| 112            | G4777-10            | 2       | TERMINAL, STUD V12615<br>306-1018-000<br>ATTACHING PARTS                |                       | 21            |
| -113           | P343-0298-00<br>0   | 2       | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000     |                       | 21            |
| -114           | 313-0075-000        | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COMPL/<br>-----*-----      |                       | 21            |
| 115            | 825-213X5V01<br>04Z | 2       | CAPACITOR, FXD, 100,000 UUF<br>P80M20%, 200 VDCW V72982<br>913-3681-000 | C44                   | 1             |
| 116            | RC20GF272K          | 2       | RESISTOR, FXD, 2700 OHMS 10%, 1/2<br>W 745-1370-000                     | R23                   | 1             |
| 117            | RC20GF122K          | 2       | RESISTOR, FXD, 1200 OHMS 10%, 1/2<br>W 745-1356-000                     | R22                   | 1             |
| 118            | AB396-2             | 2       | TERMINAL, STUD V12615<br>306-1282-000<br>ATTACHING PARTS                |                       | 2             |
| -119           | P343-0298-00<br>0   | 2       | SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 3/16 V77250 343-0298-000     |                       | 2             |
| -120           | 310-0075-000        | 2       | WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COMPL/<br>-----*-----      |                       | 2             |
| 121            | RC20GF122K          | 2       | RESISTOR, FXD, 1200 OHMS 10%, 1/2<br>W 745-1356-000                     | R18                   | 1             |
| 122            | RC20GF681K          | 2       | RESISTOR, FXD, 680 OHMS 10%, 1/2 W<br>745-1345-000                      | R20                   | 1             |
| 123            | 805-014X5V01<br>03Z | 2       | CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000  | C25                   | 1             |
| 124            | RC20GF122K          | 2       | RESISTOR, FXD, 1200 OHMS 10%, 1/2<br>W 745-1356-000                     | R13                   | 1             |
| 125            | RC20GF821K          | 2       | RESISTOR, FXD, 820 OHMS 10%, 1/2 W<br>745-1349-000                      | R16                   | 1             |

GROUP ASSEMBLY PARTS LIST

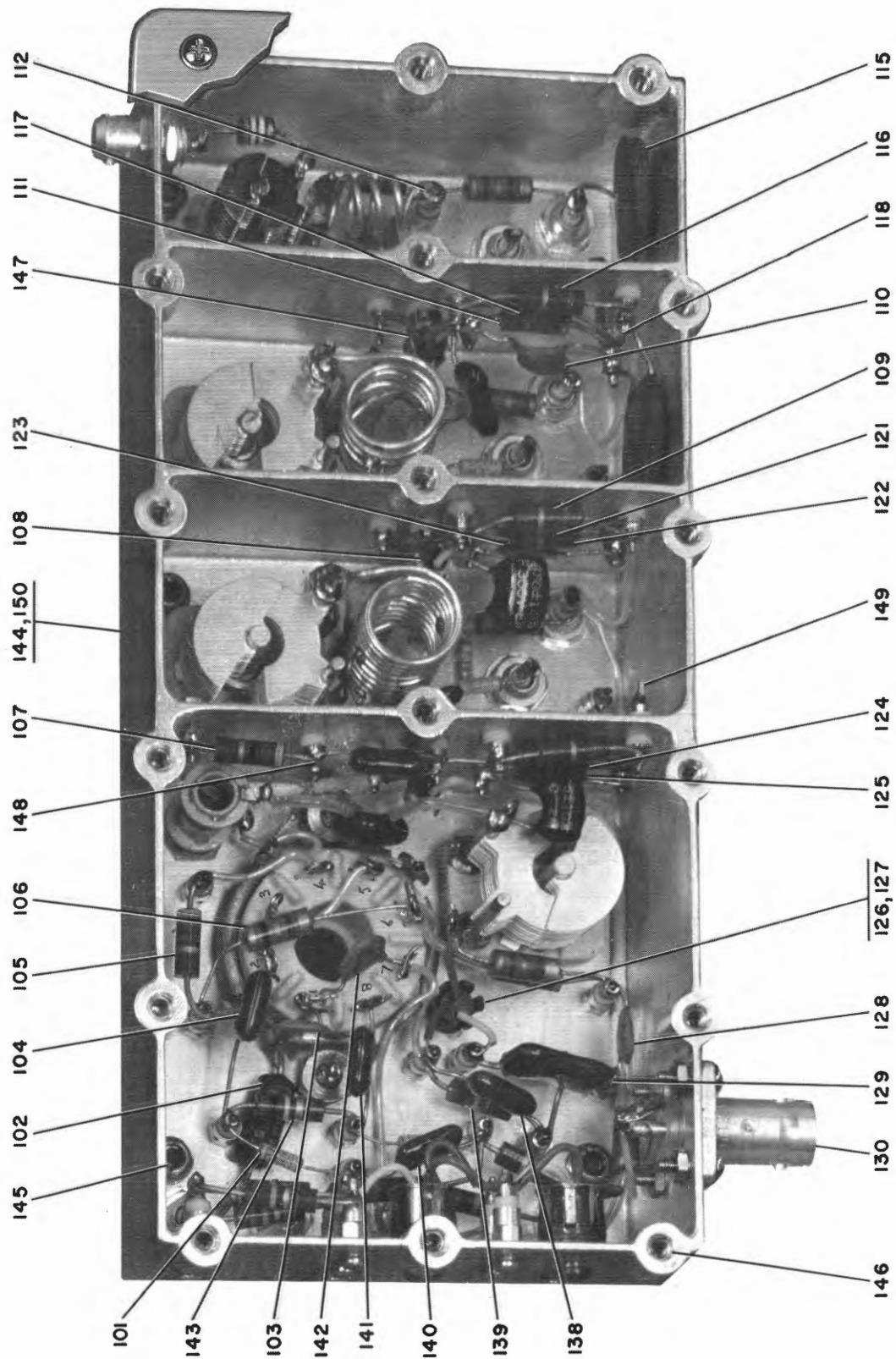


Figure 6-9. Frequency Multiplier Oscillator (Sheet 4 of 4, Index 101 Through 150)

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.             | NOMENCLATURE                                                                    | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|---------------------|---------------------------------------------------------------------------------|-----------------------|---------------|
| 6- 9           | 126      | 2N3563              | 2 TRANSISTOR 352-0630-010                                                       | Q1                    | 1             |
|                | 127      | TXB2P019-28         | 2 HOLDER, SEMICOND DEVICE V98978<br>352-9959-000                                |                       | 1             |
|                | 128      | 805-C14X5V01<br>03Z | 2 CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000        | C4                    | 1             |
|                | 129      | CM06F821J03         | 2 CAPACITOR, FXD, 820 UUF 5%, 500<br>VDCW 912-2995-000                          | C2                    | 1             |
|                | 130      | UG447U              | 2 CONNECTOR, RECP 357-9129-000                                                  | J12                   | 1             |
|                | -131     | P313-0050-00        | 2 ATTACHING PARTS<br>NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000   |                       | 3             |
|                | -132     | 310-0075-000        | 2 WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/                            |                       | 3             |
|                | -133     | P343-0300-00        | 2 SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 5/16 V77250 343-0300-000           |                       | 3             |
|                | -134     | P313-0050-00        | 2 NUT, PLAIN, HEX., NI PL BRS, 2-56<br>V77250 313-0050-000                      |                       | 1             |
|                | -135     | 310-C075-000        | 2 WASHER, LOCK, SI BRZ, 0.086 ID,<br>0.165 OD /COML/                            |                       | 1             |
|                | -136     | 4040-2HOTTIN<br>NED | 2 TERMINAL, LUG V77147<br>304-0014-000                                          |                       | 1             |
|                | -137     | P343-0300-00        | 2 SCREW, MACH., NI PL BRS, PAN HD,<br>2-56 X 5/16 V77250 343-0300-000<br>-----* |                       | 1             |
|                | 138      | RC20GF123K          | 2 RESISTOR, FXD, 12,000 OHMS 10%,<br>1/2 W 745-1398-000                         | R1                    | 1             |
|                | 139      | CM05D181K03         | 2 CAPACITOR, FXD, 180 UUF 10%, 500<br>VDCW 912-2835-000                         | C3                    | 1             |
|                | 140      | CM05D470K03         | 2 CAPACITOR, FXD, 47 UUF 10%, 500<br>VDCW 912-2793-000                          | C7                    | 1             |
|                | 141      | CM05C050K03         | 2 CAPACITOR, FXD, 5 UUF 10%, 500<br>VDCW 912-2751-000                           | C5                    | 1             |
|                | 142      | 805-C14X5V01<br>03Z | 2 CAPACITOR, FXD, 10,000 UUF<br>P80M20%, 100 VDCW V72982<br>913-3680-000        | C8                    | 1             |
|                | 143      | RC20GF104K          | 2 RESISTOR, FXD, 100,000 OHMS 10%,<br>1/2 W 745-1436-000                        | R5                    | 1             |
|                | 144      | 767-6036-001        | 2 CHASSIS, ELECTRICAL EQUIP.                                                    |                       | 1             |
|                | 145      | F12NCFMA2-62        | 3 NUT, SELF-LKG, CLINCH, CAD. PL<br>STL, 6-32 V72962 333-0842-000               |                       | 6             |
|                | 146      | MS122076            | 3 INSERT, SCR THD, CRES, 4-40 X<br>0.112 012-1625-000                           |                       | 23            |
|                | 147      | 98-417-352          | 3 CLIP, TSTR, INS V12815<br>139-3540-010                                        |                       | 3             |
|                | 148      | SL173-197           | 3 TERMINAL, STANDOFF V12615<br>306-1261-000                                     |                       | 10            |
|                | 149      | SL174-198           | 3 TERMINAL, FEEDTHRU V12615<br>306-1271-000                                     |                       | 4             |
|                | 150      | 763-1518-001        | 3 CHASSIS, ELECTRICAL EQUIP.<br>OSC-DBLR                                        |                       | 1             |

# GROUP ASSEMBLY PARTS LIST

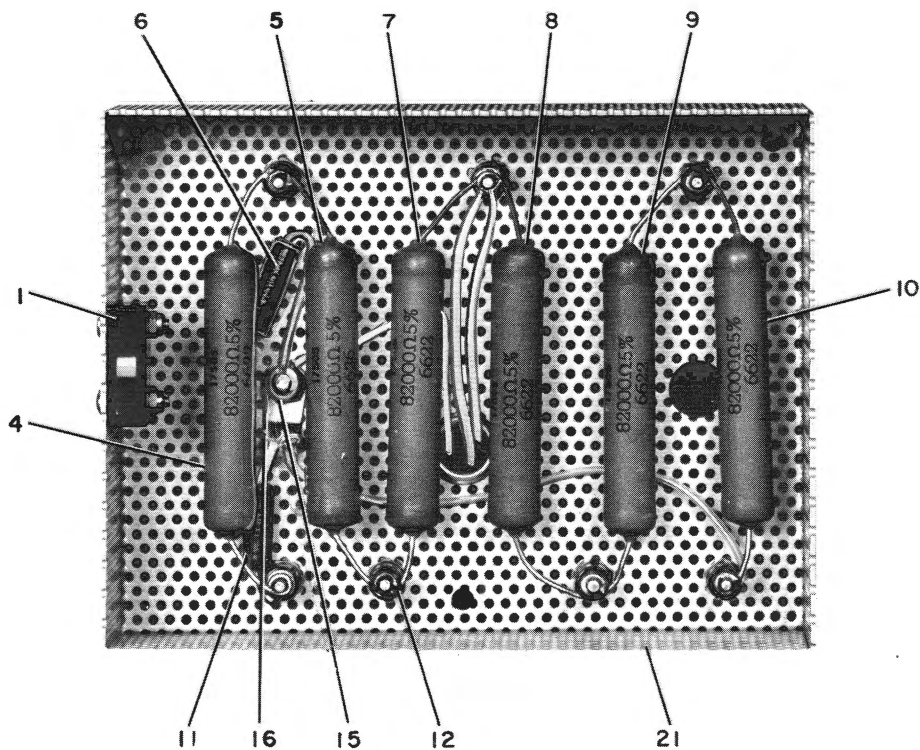


Figure 6-10. Resistor Assembly

| FIG. -<br>ITEM | PART NO.     | INDENT. | NOMENCLATURE                                                                 | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|--------------|---------|------------------------------------------------------------------------------|-----------------------|---------------|
| 6-1C - 0       | 767-6029-001 | 1       | RESISTOR ASSY SEE FIG. 6-1-193<br>FCR NHA                                    | REF                   |               |
| 1              | 16-4C4       | 2       | SWITCH, SENSITIVE V04426 S410<br>266-7036-000                                | 1                     |               |
| - 2            | 68-1660-26   | 2       | ATTACHING PARTS<br>NUT, SELF-LKG, HEX., ANOD AL, 2-56<br>V72962 333-0604-000 | 2                     |               |
| - 3            | MS51957-6    | 2       | SCREW, MACH., SST, PAN HD, 2-56 X<br>7/16 343-0127-000                       | 2                     |               |
| 4              | 1750S82000-5 | 2       | -----<br>RESISTOR, FXD, 82,000 OHMS 3%, 15 W V91637 747-0994-010 R445        | 1                     |               |
| 5              | 1750S82000-5 | 2       | RESISTOR, FXD, 82,000 OHMS 3%, 15 W V91637 747-0994-010 R444                 | 1                     |               |
| R 6            | RC32GF220K   | 2       | RESISTOR, FXD, 22 OHMS 10%, 1 W 745-3282-000 R454<br>EFF MCN 161 SB 1        | 1                     |               |

GROUP ASSEMBLY PARTS LIST

| FIG. -<br>ITEM | PART NO. | INDENT.           | NOMENCLATURE                                                                                   | UNITS<br>PER<br>ASSY. | USAGE<br>CODE |
|----------------|----------|-------------------|------------------------------------------------------------------------------------------------|-----------------------|---------------|
| 6-10           | 7        | 1750S82000-5      | 2 RESISTOR, FXD, 82,000 OHMS 3%, 15 W V91637 747-0994-010 R443                                 | 1                     |               |
|                | 8        | 1750S82000-5      | 2 RESISTOR, FXD, 82,000 OHMS 3%, 15 W V91637 747-0994-010 R440                                 | 1                     |               |
|                | 9        | 1750S82000-5      | 2 RESISTOR, FXD, 82,000 OHMS 3%, 15 W V91637 747-0994-010 R441                                 | 1                     |               |
|                | 10       | 1750S82000-5      | 2 RESISTOR, FXD, 82,000 OHMS 3%, 15 W V91637 747-0994-010 R442                                 | 1                     |               |
| R              | 11       | RN65D10R0F        | 2 RESISTOR, FXD, 10 OHMS 1%, 1/2 W 705-7000-000 EFF THRU MCN 160 SB 1 R423                     | 1                     |               |
| R              | 11       | RN65D1001F        | 2 RESISTOR, FXD, 1000 OHMS 1%, 1/2 W 705-7096-000 EFF MCN 161 SB 1 R423                        | 1                     |               |
|                | 12       | RTMT12M           | 2 TERMINAL, STUD V91663 306-0976-000 ATTACHING PARTS                                           | 7                     |               |
|                | - 13     | MS51957-12        | 2 SCREW, MACH., SST, PAN HD, 4-40 X 3/16 343-0132-000                                          | 7                     |               |
|                | - 14     | 310-0045-000      | 2 WASHER, FLAT, CRES, 1/8 ID, 5/16 OD /COML/ -----*-----                                       | 7                     |               |
| R              | 15       | RTMT12M           | 2 TERMINAL, STUD V91663 306-0976-000 EFF MCN 161 SB 1                                          | 1                     |               |
|                | 16       | 2104-04-01-2 520N | 2 TERMINAL, LUG V78189 304-0317-000 ATTACHING PARTS                                            | 1                     |               |
| R              | - 17     | MS21044D04        | 2 NUT, SELF-LKG, HEX., ANOD AL, 4-40 333-0347-000 EFF THRU MCN 160 SB 1                        | 1                     |               |
| R              | - 18     | 310-0045-000      | 2 WASHER, FLAT, CRES, 1/8 ID, 5/16 OD /COML/ EFF THRU MCN 160 SB 1                             | 1                     |               |
| R              | - 19     | MS51957-14        | 2 SCREW, MACH., SST, PAN HD, 4-40 X 5/16 343-0134-000 EFF THRU MCN 160 SB 1                    | 1                     |               |
| R              | - 20     | P343-0285-00 0    | 2 SCREW, MACH., NI PL BRS, PAN HD, 4-40 X 1/4 V77250 343-0285-000 EFF MCN 161 SB 1 -----*----- | 1                     |               |
|                | 21       | 767-6030-001      | 2 HOLDER, RES.                                                                                 | 1                     |               |

