Collins 992E-1 Preselector Mount

Rockwell International

instructions

Collins Telecommunications Products Division

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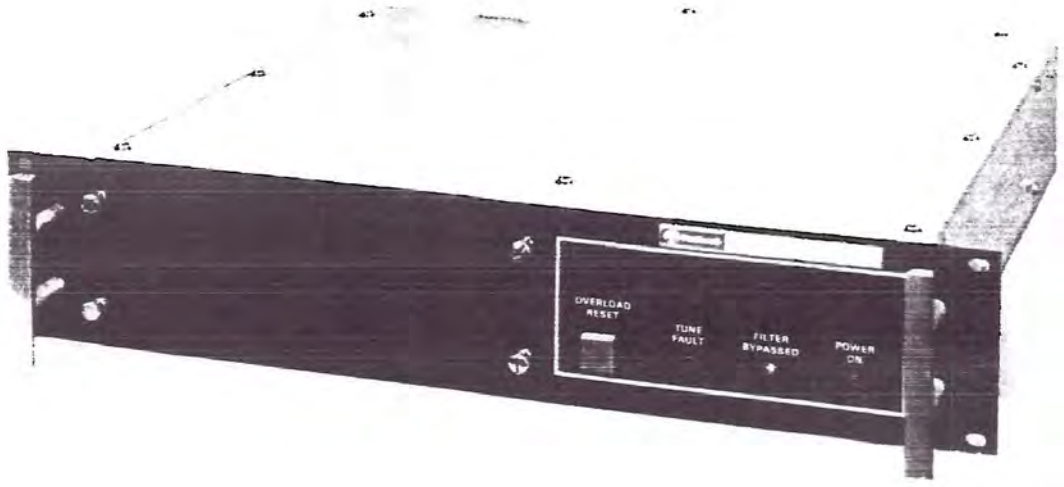
1. PURPOSE OF EQUIPMENT

The 992E-1 Preselector Mount (Collins part number 622-3825-001) provides mounting facilities, indicator devices, and interconnection capability for the 635U-2 HF Preselector when it is to be used with the 651S-1( ) General Purpose HF Receiver or the 671U-4A Receiver-Exciter.

2. EQUIPMENT SUPPLIED

The 992E-1 (figure 1) is a rack-mounted shelf for, but does not include, the 635U-2 HF Preselector. Indicator lamps, the OVERLOAD RESET pushbutton, and all input/output connectors are provided and interconnected.



TPA-0504-017

992E-1 Preselector Mount
Figure 1

3. EQUIPMENT REQUIRED BUT NOT SUPPLIED

Since the 992E-1 is a passive device intended only to support the 635U-2 and to connect it to the receiver (receiver-exciter), the equipment listed in table 1 must be provided together with suitable interconnecting harness (es).

Table 1. Equipment Required But Not Supplied.

EQUIPMENT TYPE	COLLINS PART NO
635U-2 HF Preselector	622-0402-XXX
651S-1( ) General Purpose HF Receiver or 671U-4A Receiver-Exciter	522-4836-XXX (with J63 option) 787-6934-XXX
Low-frequency filter	None

4. EQUIPMENT SPECIFICATIONS

Primary power ..... +24 to +28 V dc and +5 V dc.

Temperature range (operating) ..... -55 to +55 °C (-67 to +131 °F).

Altitude ..... 3,048 m (10,000 ft).

Humidity ..... To 95% (noncondensing).

Cooling ..... No external air required.

Insertion loss (In-band with 635U-2) ..... Less than 8 dB mW between J6 and J8 from 2.0 to 29.9999 MHz.

(Out-of-band, bypass mode) ..... Less than 0.5 dB mW between J6 and J8 at 1.0 MHz.

Stray coupling ..... Greater than -80 dB mW between J6 and J8 at 30 MHz.

Table 2. Physical Dimensions and Weight.

WIDTH mm (in)	HEIGHT mm (in)	DEPTH mm (in)	WEIGHT kg (lbs)
88.1 (3.47)	482.6 (19.00)	*476.3 ±2 *(18.75 ±0.08) ** 39.6 ** (1.56)	3.6 (7.9)
*Behind front panel **Front of panel			

5. PHYSICAL DESCRIPTION

The 992E-1 consists of an enclosure that supports the 635U-2 HF Preselector and interconnects it to the associated receiver (receiver-exciter). Insertion and removal of the 635U-2 is expedited by the removable access door on the front of the 992E-1. The weight and physical dimensions of the 992E-1 are listed in table 2.

6. INSTALLATION

Carefully unpack the equipment and check each item with the packing slip. Inspect each item for evidence of damage during shipment. All claims for damage should be filed with the transportation company. If claims for damage are to be filed, save all original packing containers and materials.

Before shipping the 992E-1, carefully pack the equipment in the packing containers used for original shipment. Pad the equipment and reinforce the container with braces and packing to prevent damage during shipment. Include a dehydrating agent in the package to reduce damage that could be caused by trapped water vapor.

No preinstallation tests are required for the 992E-1 Preselector Mount.

Four BNC-type rf connectors are provided on the rear apron of the 992E-1 to interconnect the unit to the receiver (receiver-exciter), antenna, and low-frequency filter (if used). Connectors J4 through J6 and J8 accommodate BNC plugs such as M39012/16-0001 (Collins part number 357-9292-000). Connectors J4 and J5 are normally connected together using a short length of coaxial cable unless a low-frequency

filter (0.1 to 2.0 MHz) is being used. Connector J6 is connected to the high-frequency receiving antenna or to the receive output of the system antenna coupler or diplexer. Connector J6 is connected to the receive antenna input of the system receiver or receiver-exciter. Refer to table 3 for the maximum rf signal levels that can be accommodated at these connectors.

Table 3. Maximum RF Signal Levels.

JACK	MAXIMUM SIGNAL LEVEL
J4, J5	Not to exceed 7 volts rms (open circuit) from a 50-ohm source
J5	As specified for low-frequency filter
J6	a. With 635U-2 not bypassed, 200 volts at 10% frequency separation from tuned frequency
	b. With 635U-2 bypassed, and with jumper between J4 and J5, not to exceed 7 volts rms (open circuit) from a 50-ohm source
	c. With 635U-2 bypassed, and low-frequency filter connected, not to exceed level specified for low-frequency filter

Table 4 lists the pin functions and output levels applicable to the function for connector J2 on the rear of the 992E-1. The mating connector used with this jack is ITT Cannon/Cinch Mfg. Co. part number DDMM-50S (Collins part number 371-0358-240) with hood part number DD20964 (Collins part number 371-0187-000). The spring latches used are ITT Cannon/Cinch Mfg. Co. part number D110280 (Collins part number 371-0040-080); two are required.

Caution

Possible damage to the 635U-2 or the connected receiver (receiver-exciter) can result unless the cable harness to J2 is wired properly and the rf cables connected properly. Verify before operating the system.

If the +24- to +28-volt primary power source is unregulated (as in the case when the 651S-1 receiver is being used) increased relay noise and shortened component life can be experienced. Early models using backplane assembly 637-2733-001 should be modified in accordance with service bulletin (SB 1) to provide regulation of this voltage when an unregulated supply source is being used. Models that include the on-board voltage regulator are marked 637-2733-002 or have revision designation SB 1 stamped on the backplane assembly and on the chassis of the 992E-1 near the unit nameplate.

Figure 2 shows size and location of the mounting holes in the front panel of the 992E-1, the location of the rear connectors, and the center of gravity dimensions.

7. FUNCTION OF OPERATING CONTROLS

Refer to figure 1 for the location of the operating controls on the front panel of the 992E-1.

DEVICE	FUNCTION
TUNE FAULT lamp (CR14)	This red light emitting diode (LED) lights when 635U-2 fails to tune to a newly selected frequency within 3 seconds. LED goes out when a new frequency is selected.
POWER ON lamp (CR15)	This green LED lights when 24 V dc is applied to the mount.
FILTER BYPASSED lamp (CR16)	This yellow LED lights whenever the 651S-1( ) is tuned to a frequency below 2.0 MHz.
OVERLOAD lamp (DS1)	This lamp lights when an excessive out-of-band rf signal (greater than 200 V) or an excessive in-band rf signal (about 20 V) is applied to the 635U-2 causing it to generate a receiver overload monitor output signal.
OVERLOAD RESET pushbutton (S1)	This red pushbutton, when pressed, turns off the OVERLOAD lamp and resets the receiver overload monitor flip-flop.

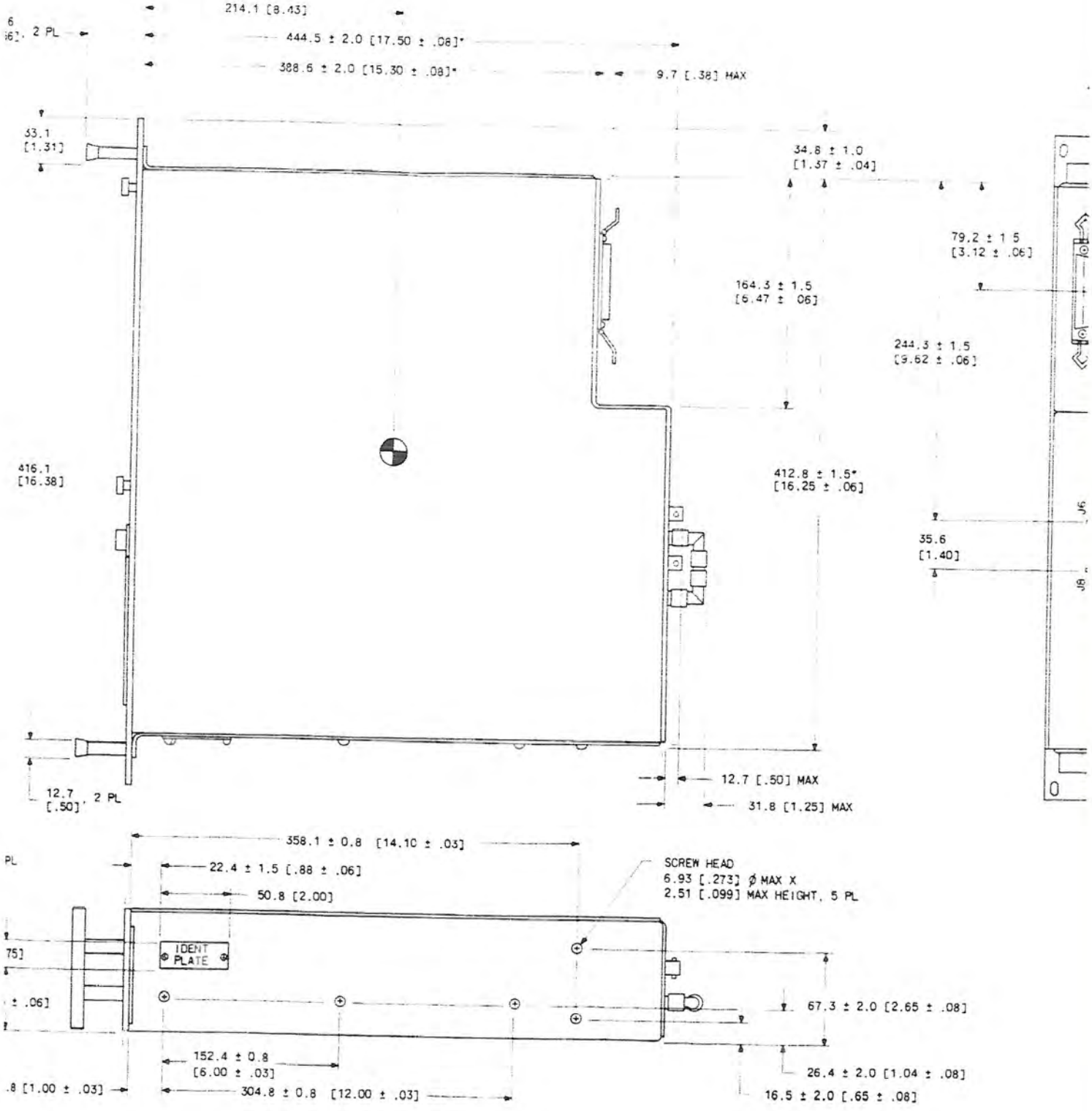
Table 1. Connector J2 Pin Function/Levels.

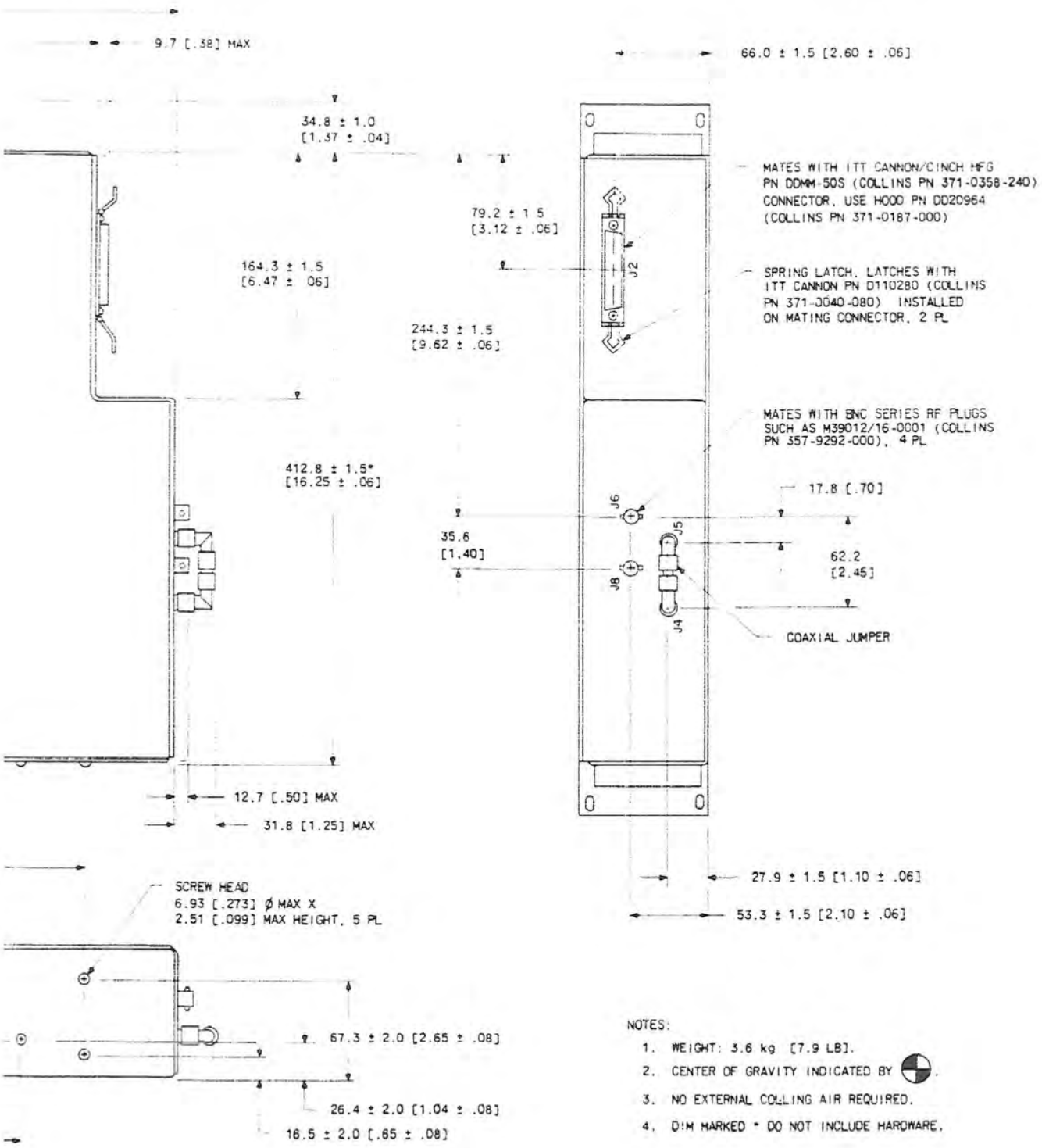
PIN NO	FUNCTION	LOGIC OR VOLTAGE LEVEL
1	GND	
2	GND	
3	Not used	
4	Not used	
5	Not used	
6	Not used	
7 8	SERIAL DATA	From 671U-4A, contains frequency information Logic 0 = less than 0.7 V dc Logic 1 = more than 3.0 V dc (Present when control is turned on)
9 10	SERIAL CLOCK	2400-Hz square wave from 671U-4A Logic 0 = less than 0.7 V dc Logic 1 = more than 3.0 V dc (Present when control is rechanneled; for a short period during frequency changes)
11	Not used	
12	SYSTEM KEY	Keyed = less than 2 V dc Unkeyed = more than 6 V dc
13	Not used	
14	24 V DC OUT	For use as level to control $\overline{\text{BYPASS}}$ ENABLE
15	INTLK RELAY (NC)	
16	INTLK RELAY (COMMON)	Closed to pin 17 when 635U-2 is in bypass mode
17	INTLK RELAY (NO)	Closed to pin 16 when 635U-2 is in bypass mode
18	20 MHz	*Bcd frequency select
19	8 MHz	*Bcd frequency select
20	2 MHz	*Bcd frequency select
21	0.8 MHz	*Bcd frequency select
22	0.2 MHz	*Bcd frequency select
23	80 kHz	*Bcd frequency select
24	40 kHz	*Bcd frequency select
25	10 kHz	*Bcd frequency select
26	4 kHz	*Bcd frequency select
27	2 kHz	*Bcd frequency select

Table 3. Connector J2 Pin Function/Levels (Cont).

PIN NO	FUNCTION	LOGIC OR VOLTAGE LEVEL
28	1 kHz	*Bcd frequency select
29	FAULT	Fault = logic 1 = more than 3 V dc No fault = logic 0 = less than 0.4 V dc
30	TUNE COMPLETE	Complete = logic 0 = less than 0.4 V dc Not complete = logic 1 = more than 3 V dc
31	$\overline{\text{BYPASS}}$ $\overline{\text{ENABLE}}$	Connects antenna to 635U-2 whenever pin 12 is low Enabled = more than 24 V dc Not enabled = less than 1 V dc
32	635U-2 INTLK	Interlock to pin 48
33	$\overline{\text{BAND ZERO}}$	In BAND 0 = logic 0 = less than 0.4 V dc Not in BAND 0 = logic 1 = more than 3 V dc
34	SERIAL RESET	Open for 651S-1( ) operation; GND for 671U-4A operation
35	BLANK PULSE	Occurs whenever a new frequency is selected Blank = 2 to 10 V dc No blank = less than 0.5 V dc
36	10 MHz	*Bcd frequency select
37	4 MHz	*Bcd frequency select
38	1 MHz	*Bcd frequency select
39	0.4 MHz	*Bcd frequency select
40	0.1 MHz	*Bcd frequency select
41	20 kHz	*Bcd frequency select
42	8 kHz	*Bcd frequency select
43	-15 V DC SUPPLY	50 mA maximum
44	+5 V DC SUPPLY	600 mA maximum
45	+24 to +28 V DC SUPPLY	1 A maximum
46	TUNE START	Generated when frequency change is made During tune start = less than 0.1 V dc, otherwise = more than 3 V dc
47	RCV OVLD MON	OVLD = logic 1 = more than 3 V dc No OVLD = logic 0 = less than 0.4 V dc
48	635U-2 INTLK	Interlock to pin 32
49	GND	
50	GND	

*Bcd levels: FREQ SELECT = logic 1 = more than 3 V dc
NOT FREQ SELECT = logic 0 = less than 0.7 V dc


214.1 [8.43]
444.5 ± 2.0 [17.50 ± .08]*
388.6 ± 2.0 [15.30 ± .08]*
9.7 [.38] MAX
33.1
[1.31]
34.8 ± 1.0
[1.37 ± .04]
79.2 ± 1.5
[3.12 ± .06]
164.3 ± 1.5
[6.47 ± .06]
244.3 ± 1.5
[9.62 ± .06]
416.1
[16.38]
412.8 ± 1.5*
[16.25 ± .06]
35.6
[1.40]
12.7
[.50], 2 PL
12.7 [.50] MAX
31.8 [1.25] MAX
358.1 ± 0.8 [14.10 ± .03]
22.4 ± 1.5 [.88 ± .06]
50.8 [2.00]
SCREW HEAD
6.93 [.273] ⌀ MAX X
2.51 [.099] MAX HEIGHT, 5 PL
IDENT
PLATE
67.3 ± 2.0 [2.65 ± .08]
152.4 ± 0.8
[6.00 ± .03]
26.4 ± 2.0 [1.04 ± .08]
304.8 ± 0.8 [12.00 ± .03]
16.5 ± 2.0 [.65 ± .08]

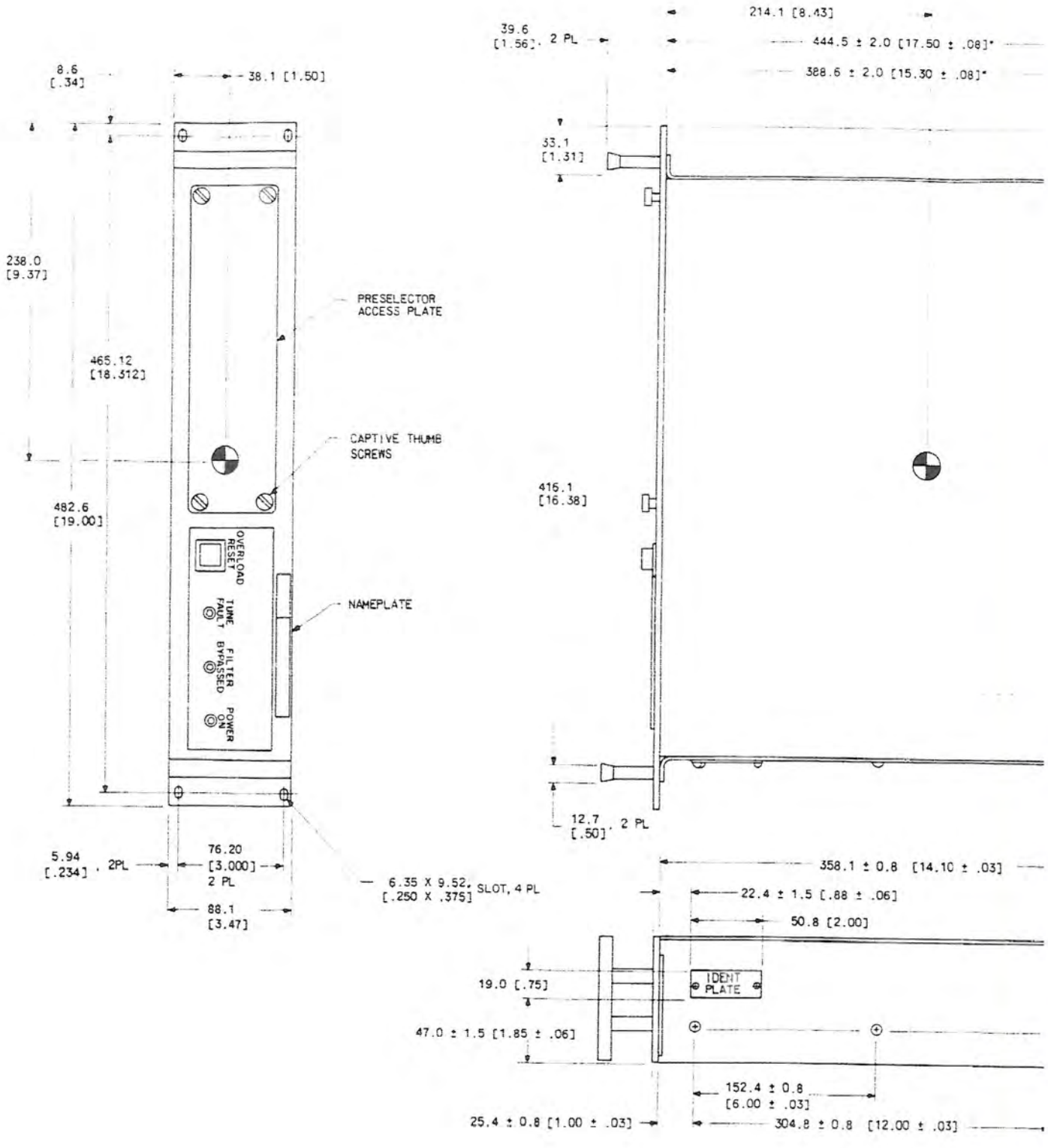


NOTES:

1. WEIGHT: 3.6 kg [7.9 LB].
2. CENTER OF GRAVITY INDICATED BY ⊕.
3. NO EXTERNAL COOLING AIR REQUIRED.
4. DIM MARKED * DO NOT INCLUDE HARDWARE.

TPA-0483-014

992E-1 Preselector Mount, Outline and Mounting Dimensions
Figure 2


8.6
[.34]
38.1 [1.50]
238.0
[9.37]
465.12
[18.512]
482.6
[19.00]
PRESELECTOR
ACCESS PLATE
CAPTIVE THUMB
SCREWS
NAMEPLATE
OVERLOAD
RESET
TUNE
FAULT
FILTER
BYPASSED
POWER
ON
5.94
[.234], 2PL
76.20
[3.000]
2 PL
88.1
[3.47]
6.35 X 9.52,
[.250 X .375] SLOT, 4 PL
214.1 [8.43]
39.6
[1.56], 2 PL
444.5 ± 2.0 [17.50 ± .08]*
388.6 ± 2.0 [15.30 ± .08]*
33.1
[1.31]
416.1
[16.38]
12.7
[.50], 2 PL
358.1 ± 0.8 [14.10 ± .03]
22.4 ± 1.5 [.88 ± .06]
50.8 [2.00]
19.0 [.75]
IDENT
PLATE
47.0 ± 1.5 [1.85 ± .06]
152.4 ± 0.8
[6.00 ± .03]
25.4 ± 0.8 [1.00 ± .03]
304.8 ± 0.8 [12.00 ± .03]

8. PRINCIPLES OF OPERATION

The electronics contained in the 992E-1 performs several switching functions, as follows:

a. Transistor Q5 is held nonconducting by a logic 0 (no fault) on the fault output of the 635U-2. When this output signal goes high, Q5 conducts and lights the front panel TUNE FAULT lamp.
b. Transistor Q6 is held nonconducting by a logic 0 (no overload) on the receiver overload monitor output of the 635U-2. When this output signal goes high, Q6 conducts and lights the OVERLOAD lamp on the front panel of the 992E-1.
c. Transistor Q1 is conducting whenever the 635U-2 is not tuned to band 0. A ground then appears at the junction of VR4, CR13, R5 and the base of Q2 goes low and this transistor turns off. With Q2 off, transistor Q3 is conducting and Q4 turns off after a time delay determined by resistor R9 and capacitor C1 (about 56 ms). With Q4 not conducting, relays K1, K2, and K3 are all deenergized, the FILTER BYPASS lamp is out, the antenna is connected to the rf input of the 635U-2, and the output of the 635U-2 is connected to the system receiver (receiver-exciter).

When the 635U-2 is tuned to band 0 (by the frequency information provided by the receiver (receiver-exciter)), transistor Q1 turns off. Q2 then conducts, Q3 is cut off, Q4 conducts after a small time delay, and relays K1, K2, and K3 are all energized. The antenna is then transferred to the low-frequency filter (if one is connected between J4 and J5) or directly to the receiver (receiver-exciter), and the 635U-2 is bypassed. Simultaneously, relay K3 closes the circuit that lights the FILTER BYPASSED lamp on the front panel of the 992E-1.

The $\overline{\text{bypass}}$ enable line may be activated by typing it to the 24 V dc out line (pin 14). When the system key input is low (transmitting), the base of Q2 is also low and Q2 is off; Q3 is on; Q4 is off. Relays K1, K2, and K3 are deenergized regardless of the level applied to the band zero input. Since the 635U-2 (status -004 and -005) looks like an open circuit below 2.0 MHz, the receiver input is always protected. When the system key goes high, these relays are again energized, and normal reception is permitted.

9. PARTS LIST

9.1 Introduction

9.1.1 General

The purpose of this parts list, prepared by Collins Telecommunications Products Division of Rockwell International, is for identification, requisition and issuance of parts.

Parts listed meet critical equipment design specification requirements. Use only part numbers specified in this parts list for replacement of parts.

9.1.2 Group Assembly Parts List

FIG-ITEM Column — Digits preceding the dash refer to figure numbers. Digits following the dash are item numbers on the illustrations.

PART NO Column — Listed are MIL standard, vendor, or Collins part numbers. Collins part numbering system consists of 10 digits as follows: a 3-digit family number, a 4-digit serial number, and a 3-digit dash number.

INDENT Column — Items are coded 1, 2, 3, etc to indicate the relationship to the next higher assembly.

DESCRIPTION Column — Lists the noun name, modifier, descriptive information, federal manufacturer's code, reference designation, attaching part (AP), reference to other figures, and effectivities.

Attaching parts are identified by (AP) following the part or parts they attach.

Effectivities are identified by the following methods: MCN (manufacturer control number) 101 and up; CI (configuration identifier) dash (-) denotes original, letter A first change, letter B second change, etc. One of the above identifiers is listed on each chassis and/or replaceable assembly. Service bulletins are identified by SB 1, SB 2, etc.

USABLE ON CODE Column — Part variations within a group of equipment are indicated by a letter code (A, B, C, etc). Absence of a code indicates part applies to all models.

UNITS PER ASSY Column — Quantities specified are per item number. Letters AR denote the selection of parts as required. Letters REF refer to an assembly completely assembled on a preceding figure and illustration.

9.1.3 Numerical Index

PART NUMBER Column — Part numbers are listed in alphanumeric sequence.

FIG-ITEM Column — Digits preceding the dash refer to figure numbers. Digits following the dash are item numbers.

TTL REQ Column — Listed is the total quantity of parts or assemblies covered in the Group Assembly Parts List.

9.1.4 Reference Designation Index

REFERENCE DESIGNATION Column — Reference designations are listed in alphanumeric sequence.

FIG-ITEM Column — Digits preceding the dash refer to figure numbers. Digits following the dash are item numbers.

PART NUMBER Column — Part numbers listed are for items that have reference designations assigned.

9.1.5 How To Use This Parts List

To locate a part number if the assembly in which the part is used is known, turn to the List of Illustrations and find the page number for the assembly in which the part is used. Locate the part and its index number on the illustration and find the index number on the Group Assembly Parts List page to determine its description and part number.

To locate the illustration for a part if the part number is known, refer to the Numerical Index and find the part number. Turn to the Group Assembly Parts List and find the first figure and index number indicated in the Numerical Index for that part. If this figure shows the part in a section or system of the equipment other than the one desired, refer to the other figure numbers listed in the Numerical Index.

To locate the illustration for a part if the reference designation is known, refer to the Reference Designation Index and find the symbol; turn to the Group Assembly Parts List and find the figure and index number indicated in the index.

9.1.6 Manufacturer's Code, Name, and Address

CODE	MANUFACTURER'S NAME AND ADDRESS
01526	General Electric Co. Data Communication Products Dept. General Electric Dr. Waynesboro, VA 22980
03508	General Electric Co. Semi-Conductor Products Dept. W. Genesee St. Auburn, NY 13021
04713	Motorola, Inc. Semiconductor Products Group 5005 E. McDowell Rd Phoenix, AZ 85008
07145	Times Wire and Cable Co. 358 Hall Ave. Wallingford, CT 06492
07263	Fairchild Camera and Instrument Corp. Semiconductor Div. 464 Ellis St. Mountain View, CA 94042
09922	Burndy Corp. Richards Ave. Norwalk, CT 06852
12615	U.S. Terminals, Inc. 7504 Camargo Rd. Cincinnati, OH 45243
19080	Robison Electronics, Inc. 3580 Sacramento Dr. San Luis Obispo, CA 93401
25088	Siemans Corp. 186 Wood Ave. S. Iselin, NJ 08830
27687	Greer A Microdot Co. PO Box 68 Mayfield Dr. Smyrna, TN 37167
33095	Spectrum Control, Inc. 152 E. Main St. Fairview, PA 16415
49956	Raytheon Co. 141 Spring St. Lexington, MA 02173
50522	Monsanto Co. Electronic Special Products 3400 Hillview Ave. Palo Alto, CA 94304

CODE	MANUFACTURER'S NAME AND ADDRESS
71468	ITT Cannon Electric 666 E. Dyer Rd. Santa Ana, CA 92705
71590	Centralab Electronics Div. of Globe-Union, Inc. P.O. Box 858 Hwy. 20 W. Fort Dodge, IA 50501
72982	Erie Technological Products, Inc. 644 W. 12th St. Erie, PA 16512
73905	ITT Jennings 970 McLaughlin Ave. San Jose, CA 95116
77147	Patton-MacGuyer Co. Div. of Avid Corp. 17 Virginia Ave. Providence, RI 02905
77250	Pheoll Mfg. Co. Div. of Allied Products Corp. 5700 W. Roosevelt Rd. Chicago, IL 60650
79807	Wrought Washer Mfg. Co. 2100 S. Bay St. Milwaukee, WI 53207
80058	Joint Electronic Type Designation System
81349	Military Specifications
91663	Armel Electronics, Inc. 1601 75th St. North Bergen, NJ 07047
91929	Honeywell, Inc. Micro Switch Div. Chicago and Spring Sts. Freeport, IL 61032
94222	Southco, Inc. Lester, PA 19113
96906	Military Standards

9.1.7 Usable on Codes

The following usable on codes have been assigned in this manual:

USABLE ON CODE	UNIT PART NUMBER	FIG-ITEM
A	637-2733-001	3-56
B	637-2733-002	3-56

9.1.8 Reference Designation Prefixes

The following prefixes have been assigned in this manual:

PREFIX	UNIT PART NUMBER	FIG-ITEM
A1	637-2733-001	3-56
A1	637-2733-002	3-56
A2	637-4364-001	3-21
W1	637-4485-001	3-51
W2	637-4485-001	3-52
W3	637-4486-001	3-43
W4	637-4486-002	3-47

9.1.9 Service Bulletin

The following S/B's or I/L's were used in compiling data for this manual:

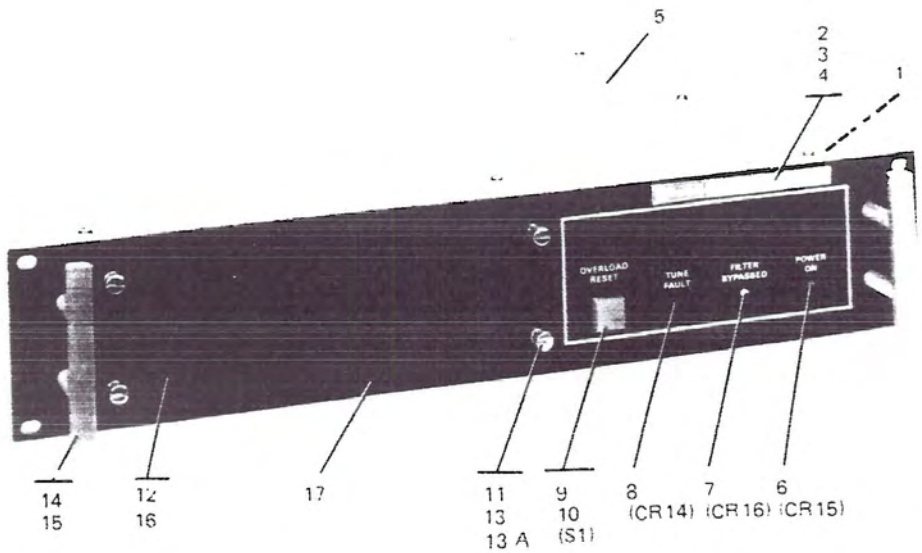
S/B NUMBER	I/L NUMBER
1	

9.2 Configuration Identifiers

The following CI's/REV LTR's were used in compiling data for this manual:

CI/ REV LTR	UNIT PART NUMBER	FIG-ITEM
C	622-3825-001	3-REF
A	637-2733-001	3-56

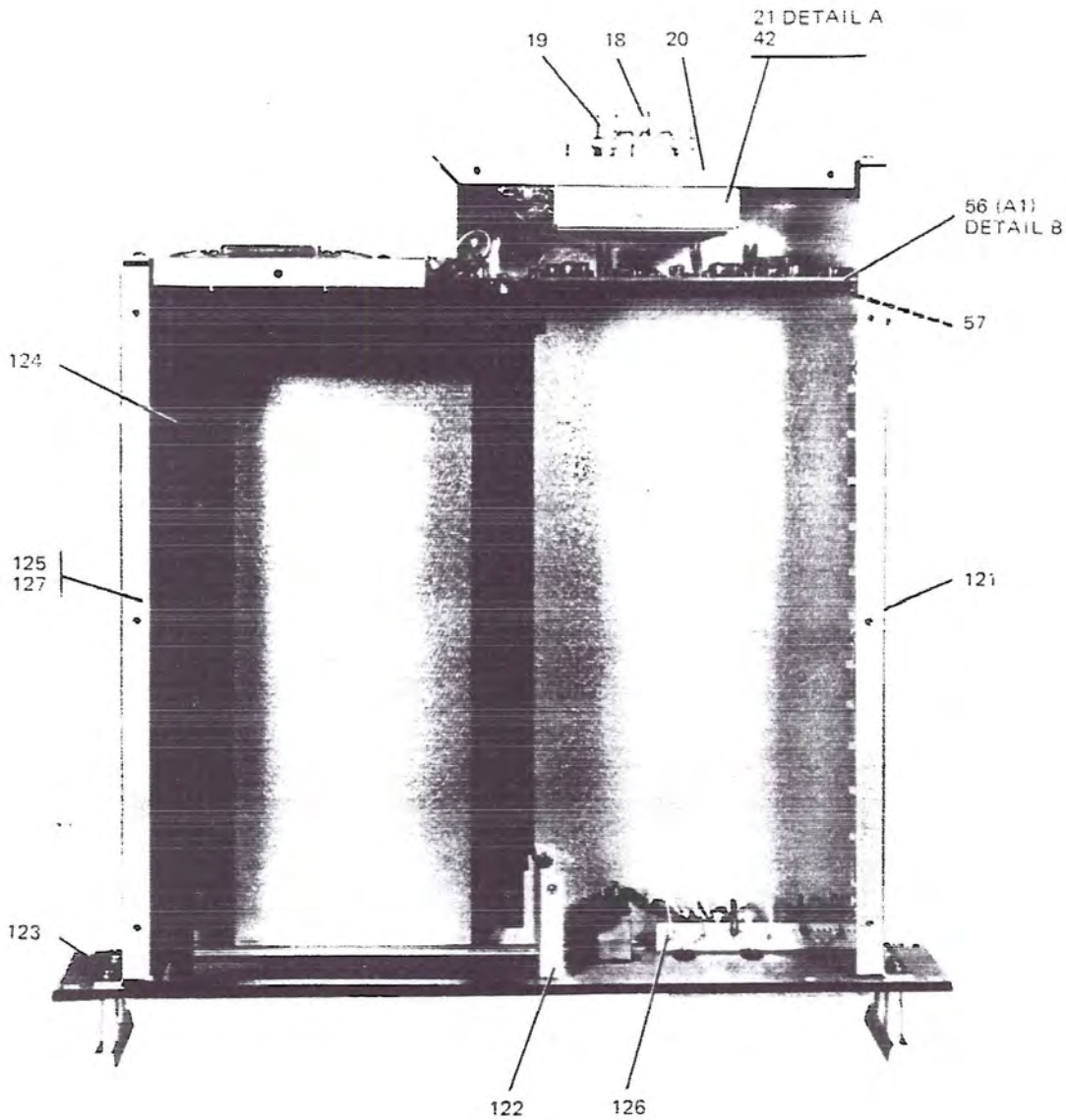
9.3 Group Assembly Parts List



TP5-4068-047

992E-1 Preselector Mount
Figure 3 (Sheet 1 of 4)

GROUP ASSEMBLY PARTS LIST

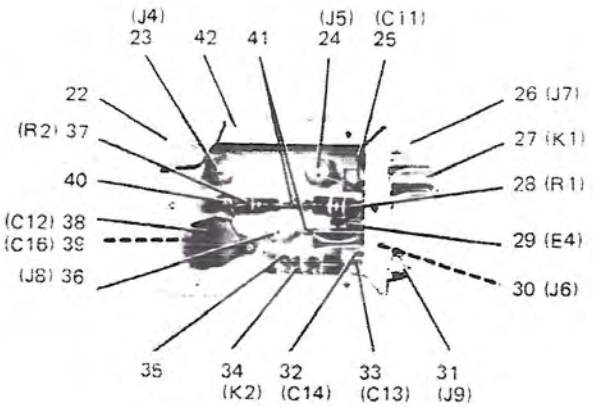


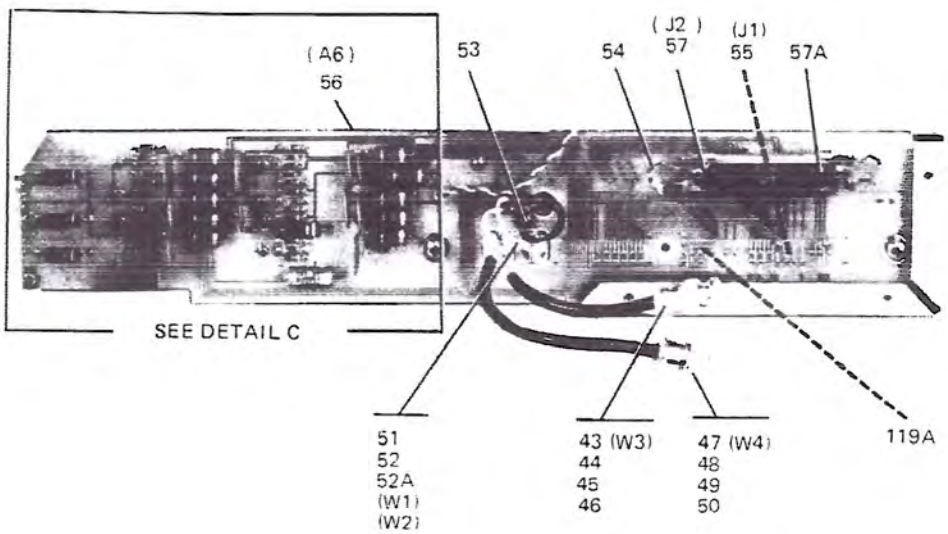
TP5-4068-047

992E-1 Preselector Mount
Figure 3 (Sheet 2)

GROUP ASSEMBLY PARTS LIST

DETAIL A



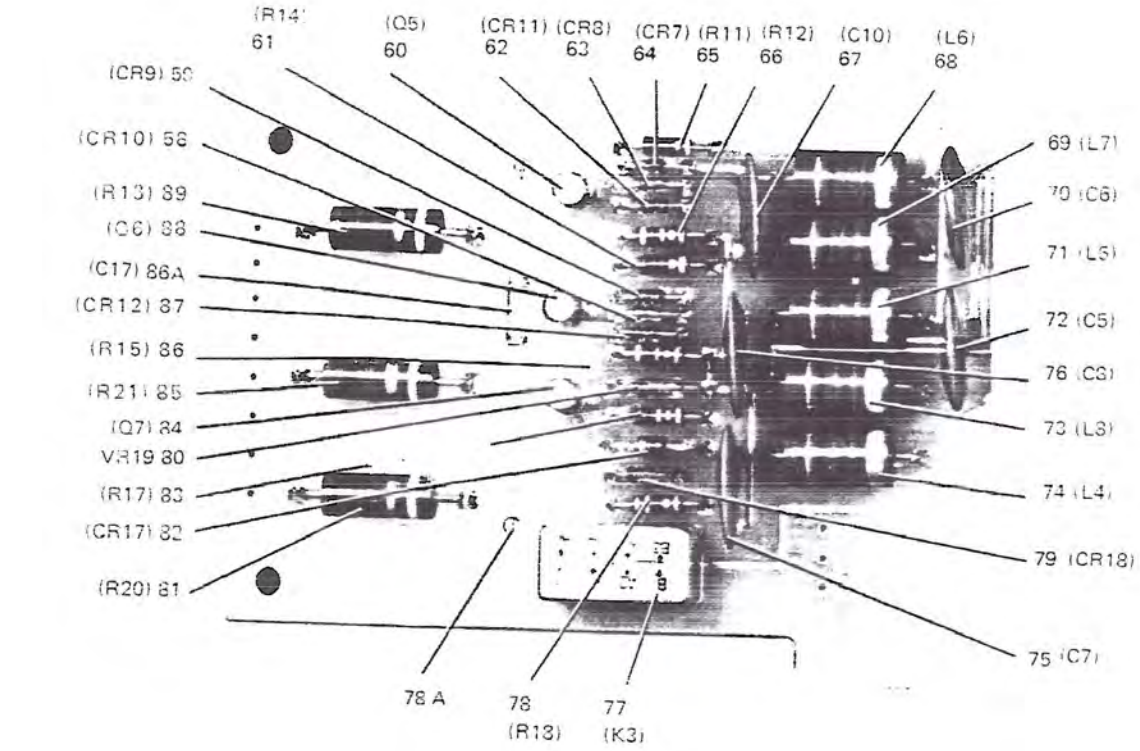


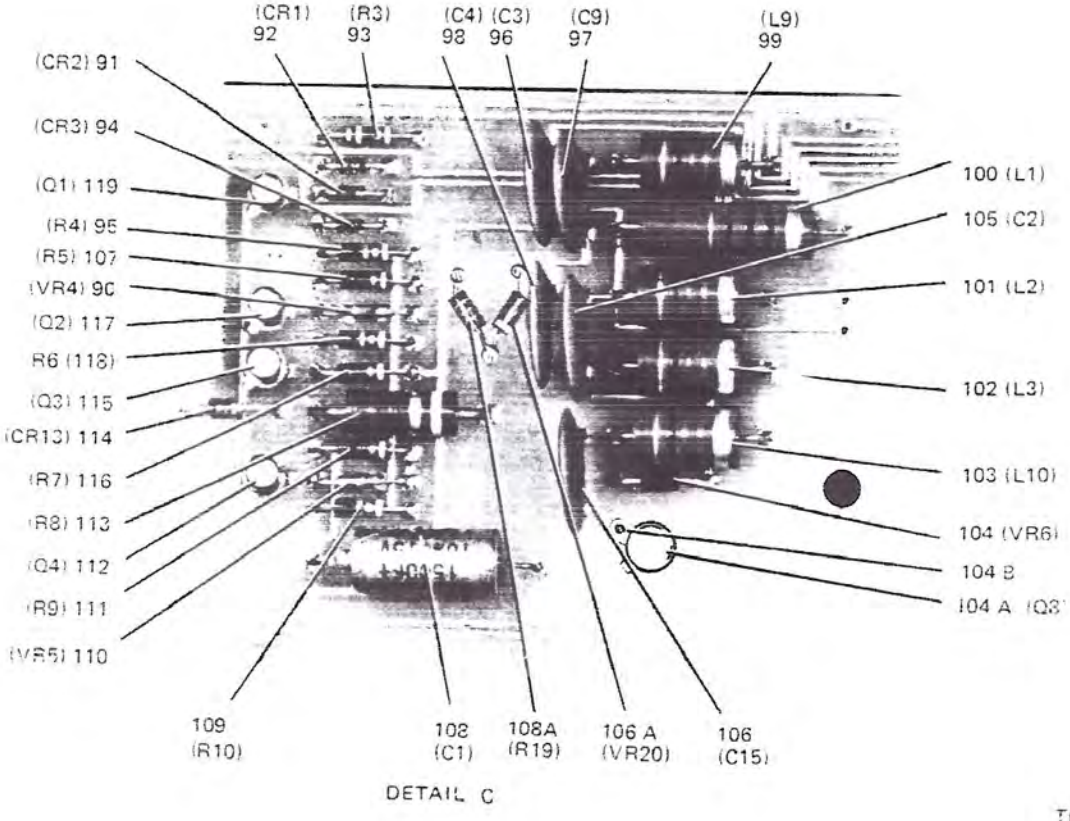
DETAIL B

TP5-4068-047

992E-1 Preselector Mount
Figure 3 (Sheet 3)

GROUP ASSEMBLY PARTS LIST





DETAIL C

TP5-4068-047

992E-1 Preselector Mount
Figure 3 (Sheet 4)

GROUP ASSEMBLY PARTS LIST

FIG - ITEM	PART NO	INDENT	DESCRIPTION	USABLE ON CODE	UNITS PER ASSY
3	622-3825-001	1	992E-1 PRESELECTOR MOUNT		REF
1	635-1899-000 *	2	PLATE, IDENT		1
	P313-0050-000	2	NUT,PLAIN,HEX, NP BRS, 2-56 (V77250) 313-0050-000 (AP)		2
	MS51957-3	2	SCREW,MACH, CD PL STL, 2-56 X 1/4 (V96906) 343-0124-000 (AP)		2
2	623-9008-001	2	INSERT, HOUSE MARK		1
3	637-4367-001	2	INSERT, IDENT		1
4	632-5201-001	2	HOLDER, IDENT		1
	MS51959-12	2	SCREW,MACH, SST, 4-40 X 3/16 (V96906) 342-0043-000 (AP)		2
5	637-4347-001	2	COVER		1
	MS51957-27	2	SCREW,MACH, SST, 6-32 X 5/16 (V96906) 343-0168-000 (AP)		9
	310-6360-000	2	WASHER,FLAT, SST, 0.147 ID X 0.375 OD (V79807) 310-6360-000 (AP)		9
6	MV5253	2	DIODE,LIGHT EMI (V50522) 353-0293-010 CR15		1
7	MV5353	2	DIODE,LIGHT EMI (V50522) 353-0293-020 CR16		1
8	MV5053	2	DIODE,LIGHT EMI (V50522) 353-0293-040 CR14		1
9	3G13A	2	SWITCH,IND MTG (V91929) 266-7529-010 S1		1
	266-1883-020	3	LAMP		1
10	3D3RN3	2	SWITCH,PB (V91929) 266-7529-120		1
11	58-28-407-24	2	FSTNR,RTNR,SCR (V94222) 012-0130-090		4
12	637-4349-001	2	COVER, ACCESS		1
13	58-36-41-24	3	STANDOFF,SCREW (V94222) 012-0130-030		4
13A	637-4349-002	3	COVER		1
14	763-3339-001	2	HANDLE		2
15	769-0249-001	2	SPACER		4
	P343-0572-000	2	SCREW,MACH, CD PL STL, 10-32 X 1-5/8 (V77250) 343-0572-000 (AP)		4
	310-0059-000	2	WASHER,FLAT, BRS, 0.203 ID X 0.437 OD (V79807) 310-0059-000 (AP)		4
16	637-4368-001	2	PAD, CUSHION		1
17	637-4341-001	2	PANEL, FRONT		1
18	UG491BU	2	ADAPTER,CONN (V80058) 357-9337-000		1
19	UG306BU	2	ADAPTER,CONN (V80058) 357-9339-000		2
20	637-4346-001	2	PANEL, REAR		1
	MS51957-27	2	SCREW,MACH, SST, 6-32 X 5/16 (V96906) 343-0168-000 (AP)		6
	310-6360-000	2	WASHER,FLAT, SST, 0.147 ID X 0.375 OD (V79807) 310-6360-000 (AP)		6
	637-4346-002	3	PANEL		1
	333-1455-030	3	NUT,SLFLKG, CD PL STL, 6-32 (V27687) 333-1455-030 (AP)		
21	637-4364-001	2	CIRCUIT, RF SWITCHING A2		1
	P330-2295-000	2	SCREW,MACH, SST, 6-32 X 1/4 (V77250) 330-2295-000 (AP)		4
22	637-4366-001	3	COVER		1
	MS51957-12	3	SCREW,MACH, STL, 4-40 X 3/16 (V96906) 343-0132-000 (AP)		6
23	M39012-21-0001	3	CONNECTOR,RCPT, ELEC (V81349) 357-9670-000 A2J4		1
24	M39012-21-0001	3	CONNECTOR,RCPT, ELEC (V81349) 357-9670-000 A2J5		1
25	DA154	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 2000V (V71590) 913-4754-000 A2C11		1
26	M39012-21-0001	3	CONNECTOR,RCPT, ELEC (V81349) 357-9670-000 A2J7		1
27	RF1E26N591	3	RELAY,ARM (V73905) 410-0486-010 A2K1		1
	775-2881-001	3	CLAMP (AP)		2
	MS51957-3	3	SCREW,MACH, CD PL STL, 2-56 X 1/4 (V96906) 343-0124-000 (AP)		2
28	RCR42G104KS	3	RESISTOR,FXD, CMPSN, 100K, 10%, 2W (V81349) 745-5736-000 A2R1		1
29	B28800	3	ARRESTOR,ELEC (V25088) 013-1455-060 A2E4		1
30	M39012-21-0001	3	CONNECTOR,RCPT, ELEC (V81349) 357-9670-000 A2J6		1
31	M39012-21-0001	3	CONNECTOR,RCPT, ELEC (V81349) 357-9670-000 A2J9		1

GROUP ASSEMBLY PARTS LIST

FIG - ITEM		PART NO	INDEX	DESCRIPTION	USABLE ON CODE	UNITS PER ASSY
3	32	54-713-001-102P	3	CAPACITOR,FXD, CER DIEL, 1000PF, GMV 100V (V33095) 913-0155-010 A2C14		1
	33	54-713-001-102P	3	CAPACITOR,FXD, CER DIEL, 1000PF, GMV 100V (V33095) 913-0155-010 A2C13		1
		P313-0143-000	3	NUT,PLAIN,HEX, NP BRS, 8-32 (V77250) 313-0143-000 (AP FOR 32-33)		2
		MS35333-106	3	WASHER,LOCK, CD PL BRZ, 0.176 ID X 0.340 OD (V96906) 373-3030-000 (AP FOR 32-33)		2
	34	3SAV1034A2	3	RELAY,AMT (V01526) 974-1065-010 A2K2		1
	35	637-4515-001	3	SHIELD		1
		MS35649-224	3	NUT,PLAIN,HEX, SST, 2-56 (V96906) 313-0037-000 (AP)		2
		MS51957-3	3	SCREW,MACH, CD PL STL, 2-56 X 1/4 (V96906) 343-0124-000 (AP)		2
	36	M39012-21-0001	3	CONNECTOR,RCPT, ELEC (V81349) 357-9670-000 A2J8		1
	37	RCR32G102KS	3	RESISTOR,FXD, CMPSN, 1K, 10%, 1W (V81349) 745-3352-000 A2R2		1
	38	3857X5V0-104Z	3	CAPACITOR,FXD, CER DIEL, 0.1UF, M20%P80%, 50V (V72982) 913-3234-000 A2C12		1
	39	3857X5V0-104Z	3	CAPACITOR,FXD, CER DIEL, 0.1UF, M20%P80%, 50V (V72982) 913-3234-000 A2C16		1
	40	RTMT16-2M	3	TERMINAL,STUD (V91663) 306-0981-000		3
		MS51957-2	3	SCREW,MACH, SST, 2-56 X 3/16 (V96906) 343-0123-000 (AP)		3
		MS35338-134	3	WASHER,LOCK, SST, 0.088 ID X 0.172 OD (V96906) 310-0275-000 (AP)		3
	41	AB396-2	3	TERMINAL,STUD, @ (V12615) 306-1282-000		2
		MS51957-2	3	SCREW,MACH, SST, 2-56 X 3/16 (V96906) 343-0123-000 (AP)		2
		MS35338-134	3	WASHER,LOCK, SST, 0.088 ID X 0.172 OD (V96906) 310-0275-000 (AP)		2
	42	637-4365-001	3	CHASSIS		1
		637-4365-002	4	BOX		1
		333-1455-030	4	NUT,SLFLKG, CD PL STL, 6-32 (V27687) 333-1455-030 (AP)		4
		333-1455-010	4	NUT,SLFLKG, CD PL STL, 2-56 (V27687) 333-1455-010 (AP)		2
		333-1455-020	4	NUT,SLFLKG, CD PL STL, 4-40 (V27687) 333-1455-020 (AP)		6
	43	637-4486-001	2	CABLE ASSY, COAX W3		1
	44	M39012-16-0101	3	CONNECTOR,PLUG, ELEC (V81349) 357-9292-000 W3P1		1
	45	M17-028RG058	3	CABLE,RF (V81349) 425-0042-000		AR
	46	778-9027-001	3	CONNECTOR,RCPT, ELEC 778-9027-001 W3J1		1
	47	637-4486-002	2	CABLE ASSY, COAX W4		1
	48	M39012-16-0101	3	CONNECTOR,PLUG, ELEC (V81349) 357-9292-000 W4P1		1
	49	M17-028RG058	3	CABLE,RF (V81349) 425-0042-000		AR
	50	372-2519-040	3	CONTACT,ELEC 372-2519-040 W4J1		1
	51	637-4485-001	2	CABLE ASSY, COAX W1		1
		372-2519-250	3	CONTACT,ELEC 372-2519-250		1
		425-1601-000	3	CABLE,RF (V07145) 425-1601-000		AR
	52	637-4485-001	2	CABLE ASSY, COAX W2		1
		372-2519-250	3	CONTACT,ELEC 372-2519-250		1
		425-1601-000	3	CABLE,RF (V07145) 425-1601-000		AR
	52A	MS21981-046	2	FERRULE,RF GND (V96906) 304-0146-000		4
	53	4007-4HT	2	TERMINAL,LUG (V77147) 304-0015-000		1
		P313-0051-000	2	NUT,PLAIN,HEX, NP BRS, 4-40 (V77250) 313-0051-000 (AP)		1
		MS35338-135	2	WASHER,LOCK, SST, 0.115 ID X 0.209 OD (V96906) 310-0279-000 (AP)		1
		310-6340-000	2	WASHER,FLAT, SST, 0.125 ID X 0.281 OD (V79807) 310-6340-000 (AP)		1
		MS51957-14	2	SCREW,MACH, SST, 4-40 X 5/16 (V96906) 343-0134-000 (AP)		1

GROUP ASSEMBLY PARTS LIST

FIG - ITEM	PART NO	INDENT	DESCRIPTION	USABLE ON CODE	UNITS PER ASSY
3 54	0110279	2	SPRING LCH ASSY (V71468) 371-0040-100		2
	MS51957-19	2	SCREW,MACH, STL, 4-40 X 3/4 (V96906) 343-0139-000 (AP)		2
55	637-2732-001	2	CONNECTOR ASSY J1		1
	MS51958-64	2	SCREW,MACH, SST, 10-32 X 5/8 (V96906) 343-0229-000 (AP)		2
	MS35338-138	2	WASHER,LOCK, SST, 0.194 ID X 0.334 OD (V96906) 310-0284-000 (AP)		2
	310-0059-000	2	WASHER,FLAT, BRS, 0.203 ID X 0.437 OD (V79807) 310-0059-000 (AP)		2
	MS35338-135	2	WASHER,LOCK, SST, 0.115 ID X 0.209 OD (V96906) 310-0279-000 (AP)		1
	310-6340-000	2	WASHER,FLAT, SST, 0.125 ID X 0.281 OD (V79807) 310-6340-000 (AP)		1
	303-1000-000	2	WASHER,NM, PLSTC, 0.125 ID X 0.281 OD (V79807) 303-1000-000 (AP)		1
	MS51957-13	2	SCREW,MACH, STL, 4-40 X 1/4 (V96906) 343-0133-000 (AP)		1
56	637-2733-001	2	CIRCUIT CARD ASSY, BACKPLANE-PRESELECTOR A1 (SEE DETAIL C)	A	1
56	637-2733-002	2	CIRCUIT CARD ASSY, BACKPLANE PRESELECTOR A1 (SEE DETAIL C)	B	1
57A	030-1989-000	4	CONTACT,PIN (V71468) 371-0373-040		44
58	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR10		1
59	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR9		1
60	2N3700	3	TRANSISTOR (V49956) 352-0734-020 A1Q5		1
61	RCR07G821KS	3	RESISTOR,FXD, CMPSN, 820 OHMS, 10%, 1/4W (V81349) 745-0745-000 A1R14		1
62	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR11		1
63	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR8		1
64	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR7		1
65	RCR07G222KS	3	RESISTOR,FXD, CMPSN, 2.2K, 10%, 1/4W (V81349) 745-0761-000 A1R11		1
66	RCR07G473KS	3	RESISTOR,FXD, CMPSN, 47K, 10%, 1/4W (V81349) 745-0809-000 A1R12		1
67	CK63AW1C3M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C10		1
68	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L6		1
69	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L7		1
70	CK63AW1C3M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C6		1
71	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L5		1
72	CK63AW1C3M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C5		1
73	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L8		1
74	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L4		1
75	CK63AW1C3M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C7		1
76	CK63AW1C3M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C8		1
77	M39016-6-109L	3	RELAY,ARM (V81349) 974-1076-030 A1K3		1
	RCRP8C0020-4A	3	INSULATOR (V19080) 150-0684-040		1
78	RCR07G392KS	3	RESISTOR,FXD, CMPSN, 3.9K, 10%, 1/4W (V81349) 745-0770-000 A1R18		1
78A	SL304-301WHT	3	TERMINAL,FEEDTH (V12615) 306-1851-000	B	5
79	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR18		1
80	MZ4627	3	SEMICOND DEVICE (V04713) 353-3591-510 A1VR19		1
81	RCR32G152KS	3	RESISTOR,FXD, CMPSN, 1.5K, 10%, 1W (V81349) 745-3359-000 A1R20		1
82	1N4003	3	SEMICOND DEVICE (V04713) 353-6442-030 A1CR17		1
83	RCR07G103KS	3	RESISTOR,FXD, CMPSN, 10K, 10%, 1/4W (V81349) 745-0785-000 A1R17		1
84	2N2222A	3	TRANSISTOR (V07263) 352-0661-020 A1Q7		1

GROUP ASSEMBLY PARTS LIST

FIG - ITEM	PART NO	INDENT	DESCRIPTION	USABLE ON CODE	UNITS PER ASSY
3 85	RCR32G152KS	3	RESISTOR,FXD, CMPSN, 1.5K, 10%, 1W (V81349) 745-3359-000 A1R21		1
86	RCR07G473KS	3	RESISTOR,FXD, CMPSN, 47K, 10%, 1/4W (V81349) 745-0809-000 A1R15		1
86A	600D107G050DJ5	3	CAPACITOR,FXD, ELCTLT, 100UF, M10%P75%, 50V (V56289) 183-1277-350 A1C17	B	1
87	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR12		1
88	2N3700	3	TRANSISTOR (V49956) 352-0734-020 A1Q6		1
89	RCR32G152KS	3	RESISTOR,FXD, CMPSN, 1.5K, 10%, 1W (V81349) 745-3359-000 A1R13		1
90	MZ4624	3	SEMICOND DEVICE (V04713) 353-3591-480 A1VR4		1
91	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR2		1
92	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR1		1
93	RCR07G392KS	3	RESISTOR,FXD, CMPSN, 3.9K, 10%, 1/4W (V81349) 745-0770-000 A1R3		1
94	1N4454	3	SEMICOND DEVICE (V03508) 353-3644-010 A1CR3		1
95	RCR07G103KS	3	RESISTOR,FXD, CMPSN, 10K, 10%, 1/4W (V81349) 745-0785-000 A1R4		1
96	CK63AW103M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C3		1
97	CK63AW103M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C9		1
98	CK63AW103M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C4		1
99	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L9		1
100	MS75103-9	3	COIL,RF, 100UH (V96906) 240-1626-000 A1L1		1
101	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L2		1
102	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L3		1
103	MS14048-2	3	COIL,RF, 220UH (V96906) 240-1636-000 A1L10		1
104	1N4757A	3	SEMICOND DEVICE (V04713) 353-6481-590 A1VR6		1
104A	2N3767	3	TRANSISTOR (V07263) 352-0689-020 A1Q8	B	1
	PK11-66M	3	MTG KIT,SEMIC, %% (V08289) 352-9570-010 (AP)	B	1
	352-9600-020	3	INSULATOR,PL (V15388) 352-9600-020 (AP)	B	2
105	CK63AW103M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C2		1
106	CK63AW103M	3	CAPACITOR,FXD, CER DIEL, 10000PF, 20%, 500V (V81349) 913-1188-000 A1C15		1
106A	1N971B	3	SEMICOND DEVICE (V04713) 353-3182-000 A1VR20	B	1
107	RCR07G682KS	3	RESISTOR,FXD, CMPSN, 6.8K, 10%, 1/4W (V81349) 745-0779-000 A1R5		1
108	M39003-01-2277	3	CAPACITOR,FXD, ELCTLT, 150UF, 10%, 15V (V81349) 184-9086-370 A1C1		1
108A	RCR20G152KS	3	RESISTOR,FXD, CMPSN, 1.5K, 10%, 1/2W (V81349) 745-1359-000 A1R19	B	1
109	RCR07G103KS	3	RESISTOR,FXD, CMPSN, 10K, 10%, 1/4W (V81349) 745-0785-000 A1R10		1
110	MZ4624	3	SEMICOND DEVICE (V04713) 353-3591-480 A1VR5		1
111	RCR07G101KS	3	RESISTOR,FXD, CMPSN, 100 OHMS, 10%, 1/4W (V81349) 745-0713-000 A1R9		1
112	2N3700	3	TRANSISTOR (V49956) 352-0734-020 A1Q4		1
113	RCR32G182KS	3	RESISTOR,FXD, CMPSN, 1.8K, 10%, 1W (V81349) 745-3363-000 A1R8		1
114	1N4003	3	SEMICOND DEVICE (V04713) 353-6442-030 A1CR13		1
115	2N2222A	3	TRANSISTOR (V07263) 352-0661-020 A1Q3		1
116	RCR07G562KS	3	RESISTOR,FXD, CMPSN, 5.6K, 10%, 1/4W (V81349) 745-0776-000 A1R7		1
117	2N2222A	3	TRANSISTOR (V07263) 352-0661-020 A1Q2		1
118	RCR07G103KS	3	RESISTOR,FXD, CMPSN, 10K, 10%, 1/4W (V81349) 745-0785-000 A1R6		1
119	2N2222A	3	TRANSISTOR (V07263) 352-0661-020 A1Q1		1
119A	372-2605-010	3	CONTACT,ELEC 372-2605-010		43
120	637-4357-001	2	BRACKET, MOUNTING		1
	MS21044C06	2	NUT,SLFLKG,HEX, SST, 6-32 (V96906) 333-0366-000 (AP)		4

GROUP ASSEMBLY PARTS LIST

FIG - ITEM	PART NO	INDEX	DESCRIPTION	USABLE ON CODE	UNITS PER ASSY
3	310-636C-C00	2	WASHER,FLAT, SST, 0.147 ID X 0.375 OD (V79807) 310-6360-000 (AP)		4
	MS51957-28	2	SCREW,MACH, SST, 6-32 X 3/8 (V96906) 343-0169-000 (AP)		4
121	HP3N	2	CLAMP,LOOP (V09922) 150-1540-000		3
	MS21044C06	2	NUT,SLFLKG,HEX, SST, 6-32 (V96906) 333-0366-000 (AP)		3
	310-6360-C00	2	WASHER,FLAT, SST, 0.147 ID X 0.375 OD (V79807) 31C-6360-000 (AP)		3
	MS51957-29	2	SCREW,MACH, SST, 6-32 X 7/16 (V96906) 343-0170-000 (AP)		3
122	637-4345-001	2	BRACKET, CHASSIS		1
	MS21C44C06	2	NUT,SLFLKG,HEX, SST, 6-32 (V96906) 333-0366-000 (AP)		3
	MS51959-28	2	SCREW,MACH, SST, 6-32 X 3/8 (V96906) 342-0062-000 (AP)		3
	637-4345-002	3	BRACKET		1
	333-1455-030	3	NUT,SLFLKG, CD PL STL, 6-32 (V27687) 333-1455-030 (AP)		1
123	637-4348-C01	2	PANEL, BACKING		1
	333-1455-030	3	NUT,SLFLKG, CD PL STL, 6-32 (V27687) 333-1455-030 (AP)		4
124	637-4344-001	2	GUIDE, RADIO		1
	MS21044C06	2	NUT,SLFLKG,HEX, SST, 6-32 (V96906) 333-0366-000 (AP)		8
	MS51959-28	2	SCREW,MACH, SST, 6-32 X 3/8 (V96906) 342-0062-000 (AP)		8
	637-4344-002	3	GUIDE, WELDED		1
	637-4344-003	4	GUIDE		1
	637-4344-004	4	BLOCK		2
125	637-4343-001	2	CHASSIS, BOX		1
126	SL201-197	3	TERMINAL,STUD (V12615) 306-0788-010		6
127	637-4343-002	3	CHASSIS		1
	333-1455-030	3	NUT,SLFLKG, CD PL STL, 6-32 (V27687) 333-1455-030 (AP)		12

9.4 Numerical Index

PART NUMBER	FIG - ITEM	TTL REQ
AB396-2	3-41	2
BZ8800	3-29	1
CK63AW103M	3-67	1
	3-70	1
	3-72	1
	3-75	1
	3-76	1
	3-96	1
	3-97	1
	3-98	1
	3-105	1
	3-106	1
DA154	3-25	1
DDC50PF0	3-57	1
D110279	3-54	2
HP3N	3-121	3
MS14048-2	3-68	1
	3-69	1
	3-71	1
	3-73	1
	3-74	1
	3-99	1
	3-101	1
	3-102	1
	3-103	1
MS21044C06	3-120	4
	3-121	3
	3-122	3
	3-124	8
MS21981-046	3-52A	4
MS35333-106	3-33	2
MS35338-134	3-40	3
	3-41	2
MS35338-135	3-53	1
	3-55	1
	3-56	1
MS35338-138	3-55	2
MS35649-224	3-35	2
MS51957-12	3-22	6
MS51957-13	3-55	1
	3-56	1
MS51957-14	3-53	1
MS51957-19	3-54	2
MS51957-2	3-40	3
	3-41	2
MS51957-27	3-5	9
	3-20	6
MS51957-28	3-120	4
MS51957-29	3-121	3
MS51957-3	3-1	2
	3-27	2
	3-35	2
MS51958-64	3-55	2
MS51959-12	3-4	2
	3-56	1
MS51959-28	3-122	3
	3-124	8
MS75103-9	3-100	1
MV5053	3-8	1
MV5253	3-6	1
MV5353	3-7	1
MZ4624	3-90	1
	3-110	1
MZ4627	3-80	1
M17-028RG058	3-45	AR
	3-49	AR
M39003-01-2277	3-108	1
M39012-16-0101	3-44	1
	3-48	1
M39012-21-0001	3-23	1
	3-24	1
	3-26	1
	3-30	1
	3-31	1
	3-36	1
M39016-6-109L	3-77	1
PK11-66M	3-104B	1
P313-0050-000	3-1	2
P313-0051-000	3-53	1
P313-0143-000	3-33	2
P330-2295-000	3-21	4
P343-0572-000	3-15	4
RCRP800020-4A	3-77	1
RCR07G101KS	3-111	1
RCR07G103KS	3-83	1
	3-95	1
	3-109	1
	3-118	1
RCR07G222KS	3-65	1
RCR07G392KS	3-78	1
	3-93	1
RCR07G473KS	3-66	1
	3-86	1
RCR07G562KS	3-116	1
RCR07G682KS	3-107	1
RCR07G821KS	3-61	1
RCR20G152KS	3-108A	1
RCR32G102KS	3-37	1
RCR32G152KS	3-81	1
	3-85	1
	3-89	1
RCR32G182KS	3-113	1
RCR42G104KS	3-28	1
RF1E26N591	3-27	1
RTMT16-2M	3-40	3
SL201-197	3-126	6
SL304-301WHT	3-78A	5
UG306BU	3-19	2
UG491BU	3-18	1
030-1989-000	3-57A	44
1N4003	3-82	1
	3-114	1
1N4454	3-58	1
	3-59	1
	3-62	1
	3-63	1
	3-64	1
	3-79	1
	3-87	1
	3-91	1
	3-92	1
	3-94	1
1N4757A	3-104	1
1N9718	3-106A	1
2N2222A	3-84	1

NUMERICAL INDEX

PART NUMBER	FIG - ITEM	TTL REQ
	3-115	1
	3-117	1
	3-119	1
2N3700	3-60	1
	3-88	1
2N3700	3-112	1
2N3767	3-104A	1
266-1883-020	3-9	1
3D3RN3	3-10	1
3G13A	3-9	1
3SAV1034A2	3-34	1
303-1000-000	3-55	1
310-0059-000	3-15	4
	3-55	2
310-6340-000	3-53	1
	3-55	1
	3-56	1
310-6360-000	3-5	9
	3-20	6
	3-120	4
	3-121	3
333-1455-010	3-42	2
333-1455-020	3-42	6
333-1455-030	3-20	
	3-42	4
	3-122	1
	3-123	4
	3-127	12
352-9500-020	3-104B	2
372-2519-040	3-50	1
372-2519-250	3-51	1
	3-52	1
372-2605-010	3-119A	43
3857X5V0-104Z	3-38	1
	3-39	1
4007-4HT	3-53	1
425-1601-000	3-51	AR
	3-52	AR
54-713-001-102P	3-32	1
	3-33	1
58-28-407-24	3-11	4
58-36-41-24	3-13	4
600D107G050DJ5	3-86A	1
622-3825-001	3-	REF
623-9008-001	3-2	1
632-5201-001	3-4	1
635-1899-000	3-1	1
637-2732-001	3-55	1
637-2733-001	3-56	1
637-4341-001	3-17	1
637-4343-001	3-125	1
637-4343-002	3-127	1
637-4344-001	3-124	1
637-4344-002	3-124	1
637-4344-003	3-124	1
637-4344-004	3-124	2
637-4345-001	3-122	1
637-4345-002	3-122	1
637-4346-001	3-20	1
637-4346-002	3-20	1
637-4347-001	3-5	1
637-4348-001	3-123	1
637-4349-001	3-12	1
637-4349-002	3-13A	1
637-4357-001	3-120	1
637-4364-001	3-21	1
637-4365-001	3-42	1
637-4365-002	3-42	1
637-4366-001	3-22	1
637-4367-001	3-3	1
637-4368-001	3-16	1
637-4485-001	3-51	1
	3-52	1
637-4486-001	3-43	1
637-4486-002	3-47	1
637-4515-001	3-35	1
763-3339-001	3-14	2
768-3785-001	3-56	1
769-0249-001	3-15	4
775-2881-001	3-27	2
778-9027-001	3-46	1

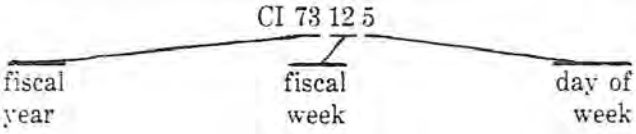
9.5 Reference Designation Index

REFERENCE DESIGNATION	FIG - ITEM	PART NUMBER
A1	3-56	637-2733-001
A1	3-56	637-2733-002
A1CR1	3-92	1N4454
A1CR10	3-58	1N4454
A1CR11	3-62	1N4454
A1CR12	3-87	1N4454
A1CR13	3-114	1N4003
A1CR17	3-82	1N4003
A1CR18	3-79	1N4454
A1CR2	3-91	1N4454
A1CR3	3-94	1N4454
A1CR7	3-64	1N4454
A1CR8	3-63	1N4454
A1CR9	3-59	1N4454
A1C1	3-108	M39003-01-2277
A1C10	3-67	CK63AW103M
A1C15	3-106	CK63AW103M
A1C17	3-86A	600D107G050DJ5
A1C2	3-105	CK63AW103M
A1C3	3-96	CK63AW103M
A1C4	3-98	CK63AW103M
A1C5	3-72	CK63AW103M
A1C6	3-70	CK63AW103M
A1C7	3-75	CK63AW103M
A1C8	3-76	CK63AW103M
A1C9	3-97	CK63AW103M
A1J2	3-57	DDC50PF0
A1K3	3-77	M39016-6-109L
A1L1	3-100	MS75103-9
A1L10	3-103	MS14048-2
A1L2	3-101	MS14048-2
A1L3	3-102	MS14048-2
A1L4	3-74	MS14048-2
A1L5	3-71	MS14048-2
A1L6	3-68	MS14048-2
A1L7	3-69	MS14048-2
A1L8	3-73	MS14048-2
A1L9	3-99	MS14048-2
A1Q1	3-119	2N2222A
A1Q2	3-117	2N2222A
A1Q3	3-115	2N2222A
A1Q4	3-112	2N3700
A1Q5	3-60	2N3700
A1Q6	3-88	2N3700
A1Q7	3-84	2N2222A
A1Q8	3-104A	2N3767
A1R10	3-109	RCR07G103KS
A1R11	3-65	RCR07G222KS
A1R12	3-66	RCR07G473KS
A1R13	3-89	RCR32G152KS
A1R14	3-61	RCR07G821KS
A1R15	3-86	RCR07G473KS
A1R17	3-83	RCR07G103KS
A1R18	3-78	RCR07G392KS
A1R19	3-108A	RCR20G152KS
A1R20	3-81	RCR32G152KS
A1R21	3-85	RCR32G152KS
A1R3	3-93	RCR07G392KS
A1R4	3-95	RCR07G103KS
A1R5	3-107	RCR07G682KS
A1R6	3-118	RCR07G103KS
A1R7	3-116	RCR07G562KS
A1R8	3-113	RCR32G182KS
A1R9	3-111	RCR07G101KS
A1VR19	3-80	MZ4627
A1VR20	3-106A	1N9728
A1VR4	3-90	MZ4624
A1VR5	3-110	MZ4624
A1VR6	3-104	1N4757A
A2	3-21	637-4364-001
A2C11	3-25	DA154
A2C12	3-38	3857X5V0-104Z
A2C13	3-33	54-713-001-102P
A2C14	3-32	54-713-001-102P
A2C16	3-39	3857X5V0-104Z
A2E4	3-29	B2B800
A2J4	3-23	M39012-21-0001
A2J5	3-24	M39012-21-0001
A2J6	3-30	M39012-21-0001
A2J7	3-26	M39012-21-0001
A2J8	3-36	M39012-21-0001
A2J9	3-31	M39012-21-0001
A2K1	3-27	RF1E26N591
A2K2	3-34	3SAV1034A2
A2R1	3-28	RCR42G104KS
A2R2	3-37	RCR32G102KS
CR14	3-8	MV5053
CR15	3-6	MV5253
CR16	3-7	MV5353
J1	3-55	637-2732-001
S1	3-9	3G13A
W1	3-51	637-4485-001
W2	3-52	637-4485-001
W3	3-43	637-4486-001
W3J1	3-46	778-9027-001
W3P1	3-44	M39012-16-0101
W4	3-47	637-4486-002
W4J1	3-50	372-2519-040
W4P1	3-48	M39012-16-0101

10. SCHEMATICS

10.1 Configuration Status Control

Collins Telecommunications Products Division of Rockwell International has two methods for identifying the configuration status of a unit or subassembly. One method uses a 5-digit number that is referred to as the configuration identifier (CI). A typical 5-digit CI is as follows:



Whenever a change (process, mechanical, or electrical) occurs, the CI changes. For example, if a subassembly configuration status identified by CI 73125 has an electrical component change on the 5th day of the 14th fiscal week of fiscal year 1973, then the new CI appearing on the subassembly would be 73145.

Whenever possible, the identifier number is marked on the unit or subassembly approximately two spaces following the 10-digit part number. When this is not practicable, it is marked as close as possible to, but not immediately following, the part number. As an example, on a subassembly with high parts density, the 10-digit part number may appear on one side of the subassembly, the identifier number on the other.

Note

If two identifier numbers appear on the same subassembly, the numerically larger would be used for configuration.

The second method uses a 2-character maximum alphabetic identifier. The alphabetic identifier will be preceded by the letters REV (revision) and will start with 0 if no changes have been processed. The first change will be identified as A, the second as B, and continuing through Z to AA and ultimately to ZZ. Incorporation of design changes in a unit or subassembly that has been returned to Rockwell-Collins for repair by a customer or that has been removed from the company's finished goods inventory is defined as rework. At the time of rework, the unit or subassembly will be remarked to reflect the design level to which it is being upgraded. This is done by leaving the original marking on the unit or subassembly and adding the letters RWK (rework) followed by the alphabetic identifier of the latest change incorporated in the rework. For example, this will differentiate between a version B unit that has been reworked to version F from a newly manufactured version F.

Note

The configuration identifier or alphabetic identifier is not a serial number because many units or subassemblies may exist with the same identifier.

Only configuration/alphabetic identifiers that result in schematic and parts breakdown changes are covered in this section. Therefore, if a unit or subassembly has an identifier that numerically/alphabetically falls between identifiers listed on the schematic changes page, the electrical configuration is represented by the earlier identifier.

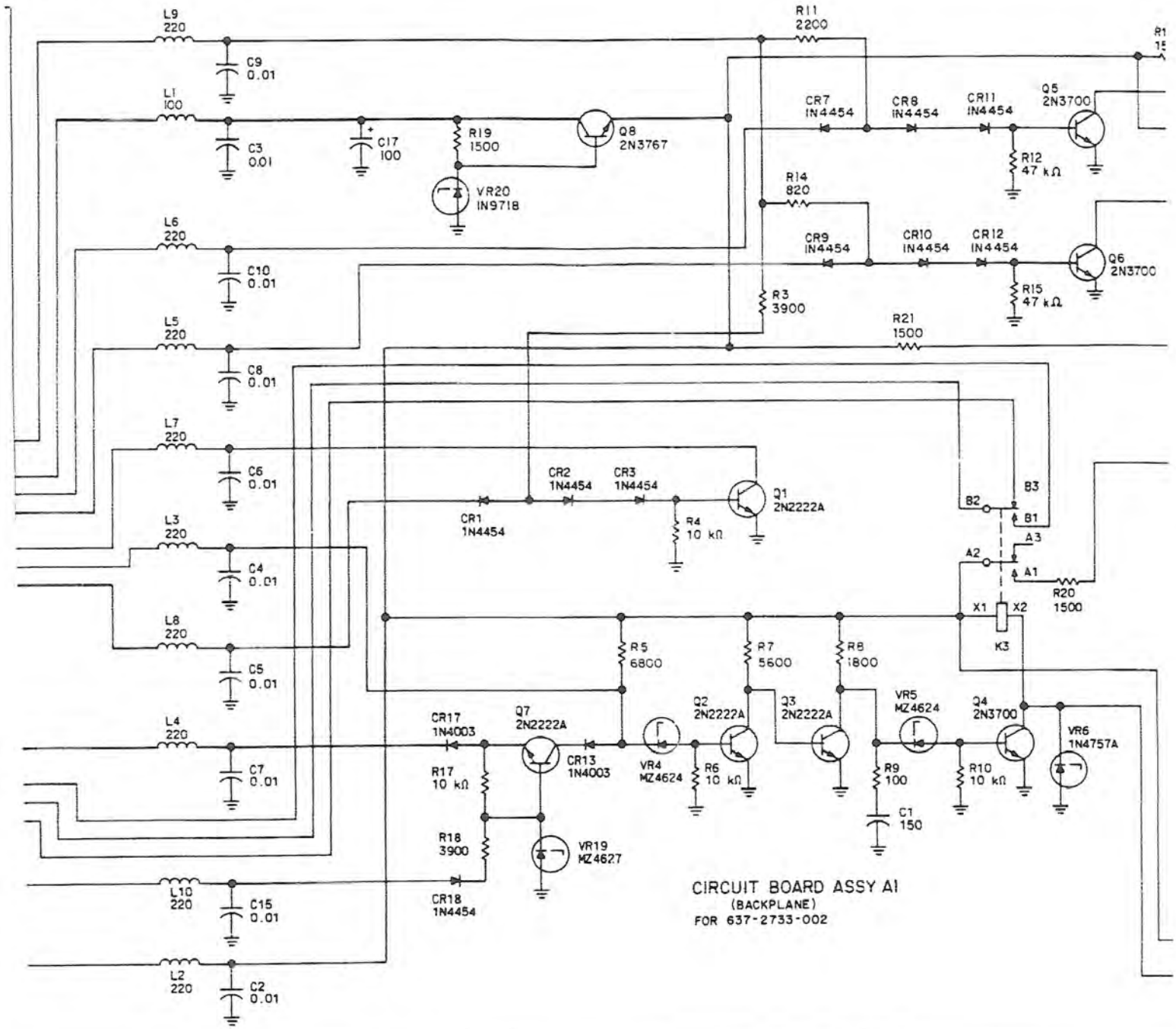
10.2 Configuration Effectivity

Refer to the schematic changes page preceding each subassembly schematic for any subassembly changes that may have occurred and the corresponding identifier covering each change.

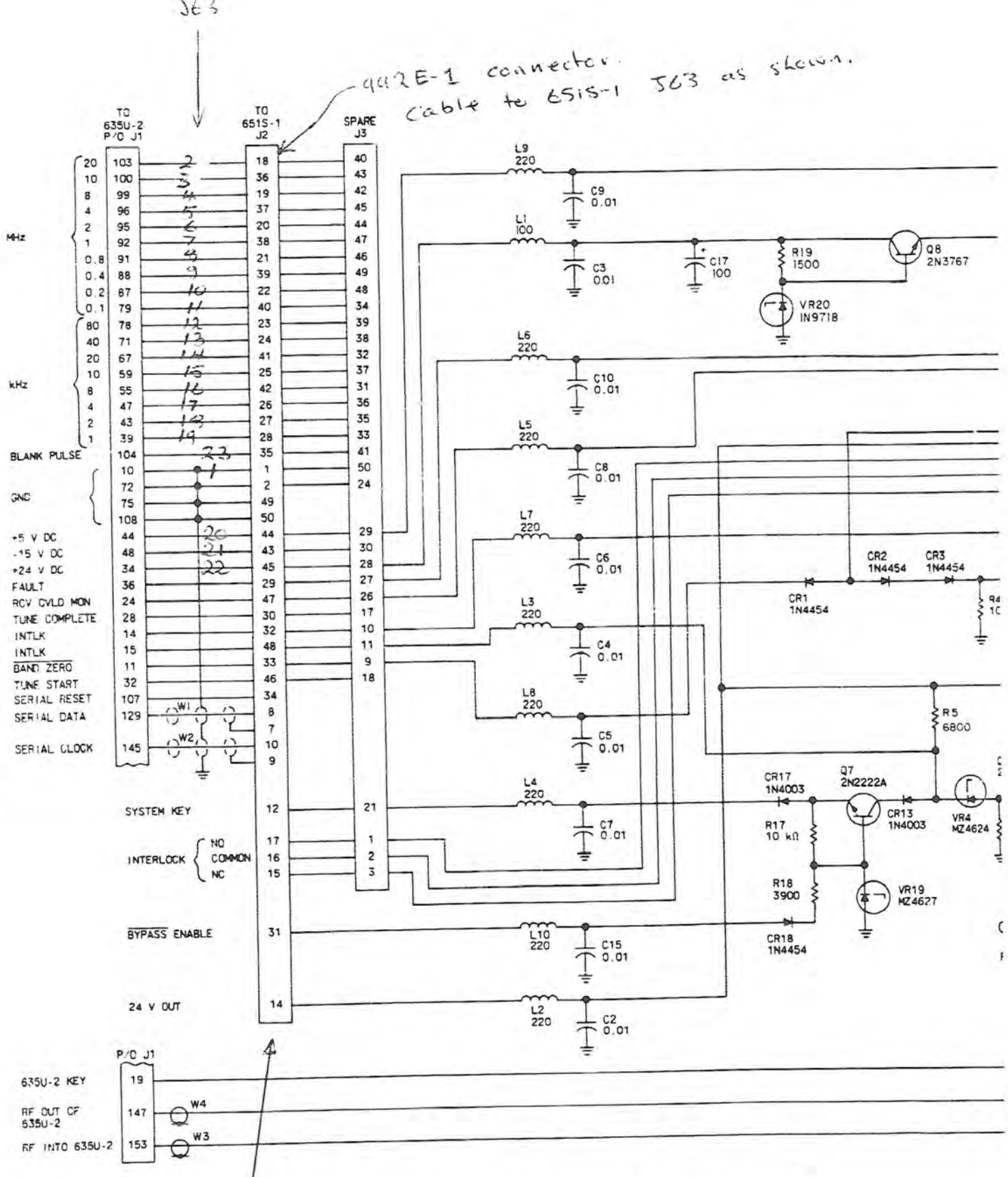
Listed below are the units or subassemblies covered by this document.

UNIT/SUBASSEMBLY	COLLINS PART NUMBER	LATEST EFFECTIVITY
992E-1	622-3825-001	REV C
A1	637-2733-002	SB 1

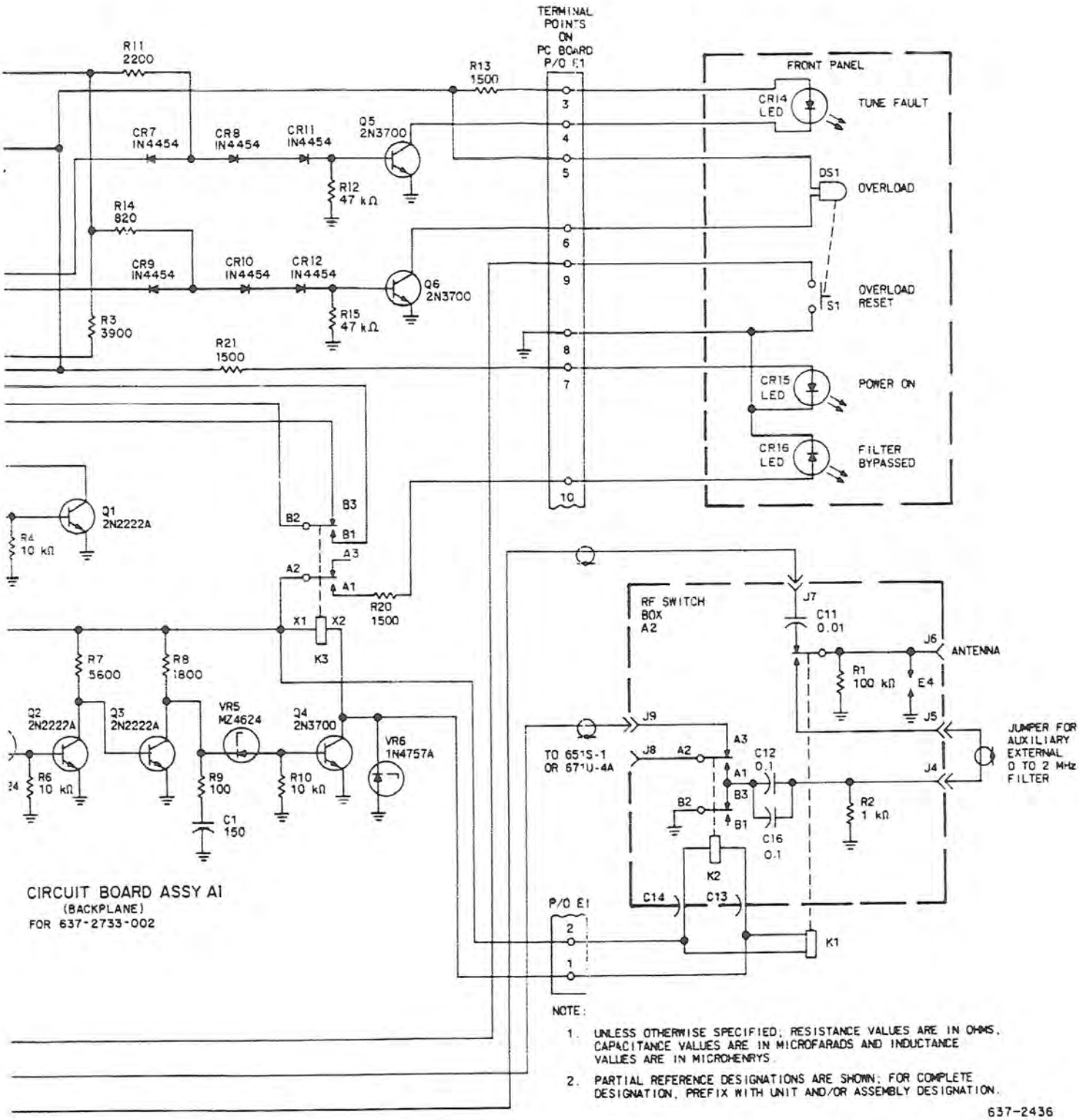
102E-1 connector.
E Cable to 651S-1 J63 as shown.



connector J2 that needs to
to the 651S-1 but not all
connecting, only these I've marked.



This is the connector J2 that needs to be cabled to the 651S-1 but not all pins need connecting, only those I've marked.



992E-1 Preselector Mount, Schematic Diagram
Figure 4 (Sheet 2)