

SHOP PROCEDURE - REPLACEMENT PARTS
ELECTRONIC SECRETARY® MODEL LP-TD-C

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3. ORDERING	1	1.01 This Section contains the maintenance drawings of the Model LP-TD-C. Each drawing shows how the items in its parts lists fit together to form the assembly identified by the figure caption. Except for Figure 1, each caption consists of three parts: the assembly name, part number, and the figure number of the next higher assembly.
ILLUSTRATIONS		1.02 The parts list of each drawing identifies parts by number and description.
1. Final Assembly - Model LP-TD-C	2	1.03 The instructions for the installation and field maintenance of the Model LP-TD-C are found in Section 478-130-200 of the General System Practices.
2. Assembly - Cabinet	4	2. PARTS BREAKDOWN
3. Assembly - Carriage, Printed Circuit Board	5	2.01 The drawings are cross-referenced in the order of mechanical breakdown. Starting with the parts list in Figure 1, each item making up the final assembly is identified by a part number and description. If no part number is shown a figure reference is included which extends the disassembly.
4. Assembly - Relay Housing	6	3. ORDERING
5. Assembly - Printed Circuit Board No. 1	7	3.01 The parts list on each maintenance drawing provides a part number and description which are necessary when ordering a replacement part.
6. Assembly - Printed Circuit Board No. 2	8	NOTE: A part number is not shown for some items (assemblies) in the parts lists. Instead, another figure number is referenced which is a maintenance drawing of that particular assembly. This is done to prevent an unnecessary order for a whole assembly when, in most cases, only one of its parts need be replaced. To order a whole assembly, use the part number shown in the caption of the figure for that assembly.
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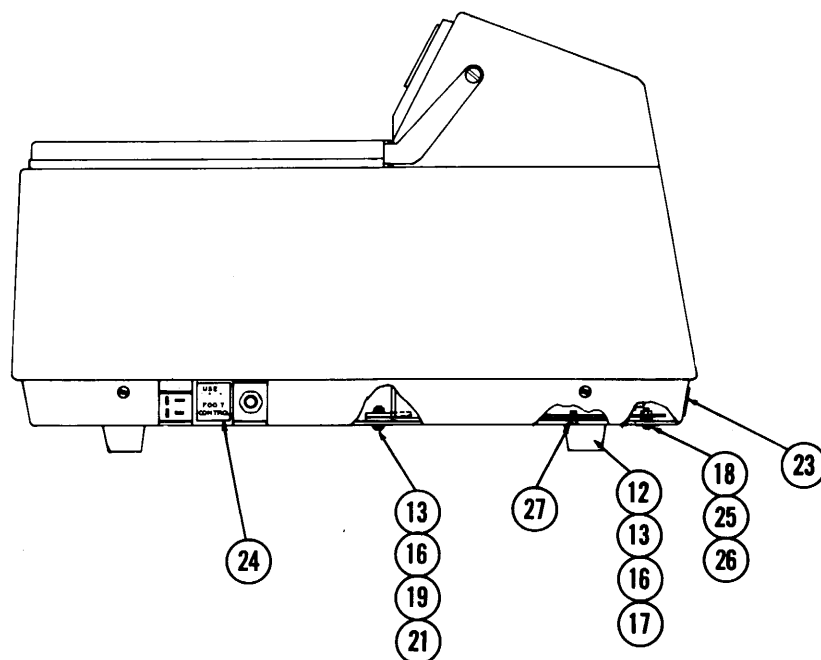
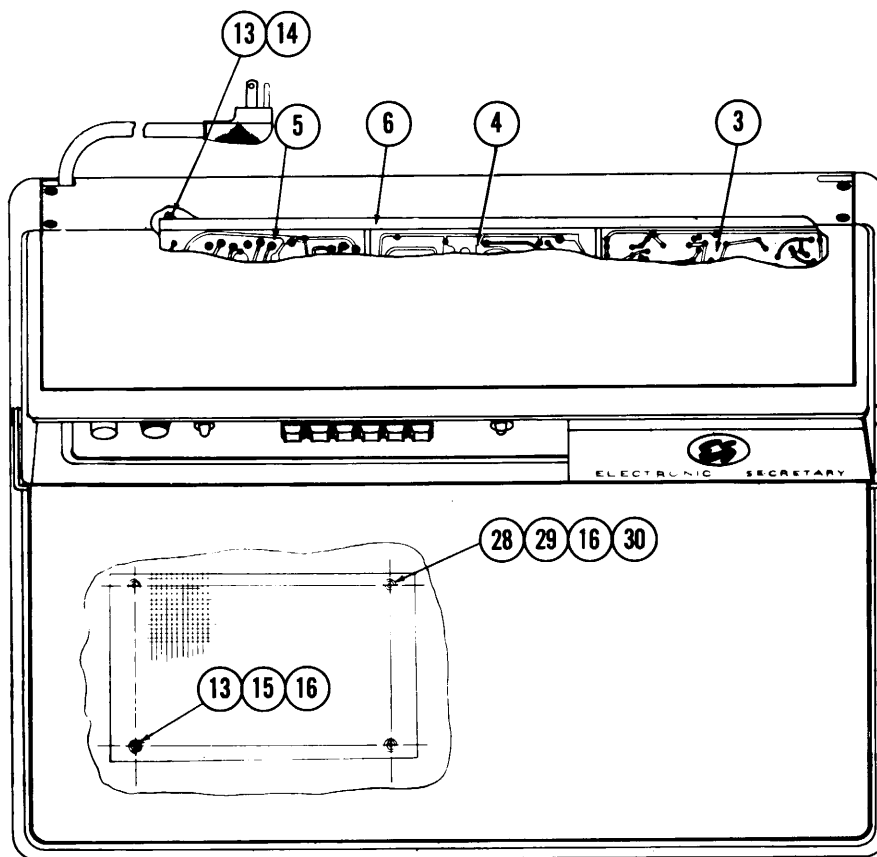
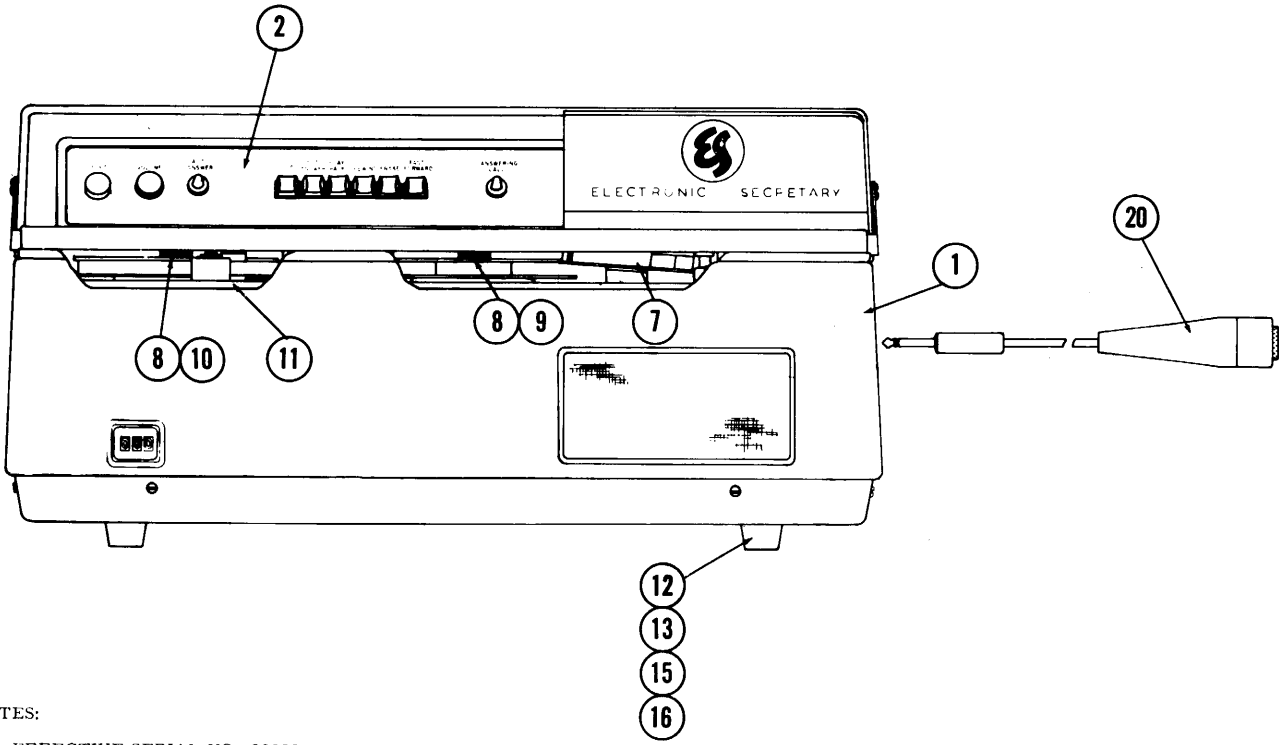


Figure 1. Final Assembly - Model LP-TD-C, WW-782-15.



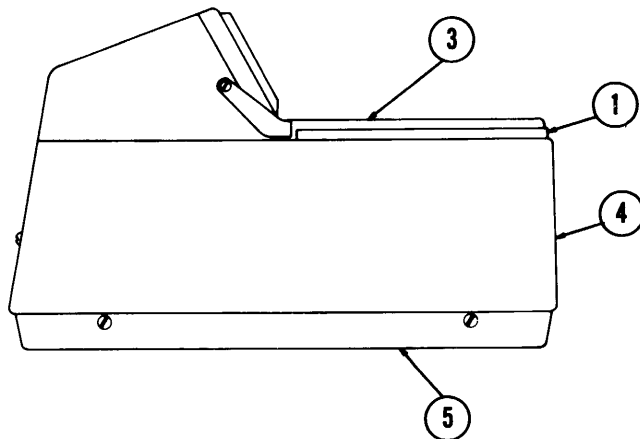
- NOTES:
- 1. EFFECTIVE SERIAL NO. 80650
 - 2. REPLACES WW-757-15E

ITEM	PART NO.	QTY.	DESCRIPTION
1		1	CABINET COMPLETE (SEE FIG. 2)
2		1	ASS'Y CHASSIS WIRING (SEE FIG. 20 & 21)
3		1	ASS'Y CIRCUIT BOARD #1 (SEE FIG. 5)
4		1	ASS'Y CIRCUIT BOARD #2 (SEE FIG. 6)
5		1	ASS'Y CIRCUIT BOARD #3 (SEE FIG. 7)
6	WW-4154-7C	1	BRACKET PC BOARD CLAMP
7		1	CARTRIDGE W TAPE (SEE FIG. 8)
8	WW-1916-42A	2	HUB LOCK
9	WW-4287-38	1	REEL TAPE
10	WW-4286-44	1	TAPE RECORDING W REEL
11		1	ASS'Y WIRING, TAPE MECHANISM (SEE FIG. 23)
12	WW-4153-48	4	FEET POLYETHELENE
13	WW-1374-4	8	WASHER #6 INT. STAR
14	WW-1438-3	2	SCREW 6-32 X 5/16
15	WW-1403-3	2	SCREW 6-32 X 1/2
16	WW-1492-2	9	NUT KEPS 6-32
17	WW-1404-3	2	SCREW 6-32 X 1/2.FH
18	WW-1493-2	2	NUT KEPS 8-32 X 5/32
19	WW-3395-3	2	SCREW 6-32 X 3/8
20		1	ASS'Y MICROPHONE MAGNETIC (SEE FIG. 19)
21	WW-4206-7B	1	BRACKET CHASSIS RETAINING
22	WW-5930-54E	REF	SCHEMATIC LP-TD-C
23	WW-4333-27A	1	PLATE SERIAL NUMBER
24	WW-4764-27A	1	DECAL. FOOT CONTROL
25	WW-1394-4	4	WASHER LOCK #8 EXT. STAR
26	WW-3601-3	2	SCREW 8-32 X 3/8 BHM
27	WW-2187-3	2	SCREW 6-32 X 5/16 FHM
28	WW-5335-28	1	SCREEN
29	WW-1403-3	3	SCREW 6/32 RHM
30	WW-1353-4	4	WASHER #6 FLAT

Figure 1. Final Assembly - Model LP-TD-C, WW-782-15 (Con't.).

SECTION 997-404-800
ISSUE 1

ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-2220-48A	1	CHANNEL - 37", RUBBER
2	WW-4122-11B	1	COVER FALSE
3	WW-4121-11D	1	COVER
4	WW-4131-12D	1	WRAPPER
5	WW-4116-22D	1	BOTTOM PLATE
6	WW-4458-4	2	WASHER - #10 FLAT
7	WW-4460-3	2	SCREW 10-32 X 5/8"
8	WW-4462-3	8	SCREW, 8-32 X 3/8"
9	WW-4118-45D	1	BACK PANEL
10	WW-1442-3	3	SCREW, SHT. MATL #4
11	WW-4461-3	2	SCREW, 6-32 X 3/8"
12	WW-4459-2	2	NUT 10 - 32 X 3/8"
13	WW-5787-34	1	RETAINER, FALSE COVER SPRING



NOTE:

1. USED ON FINAL ASSEMBLIES WW-774-15E, WW-769-15E, WW-757-15E, WW-773-15, WW-782-15, WW-784-15.

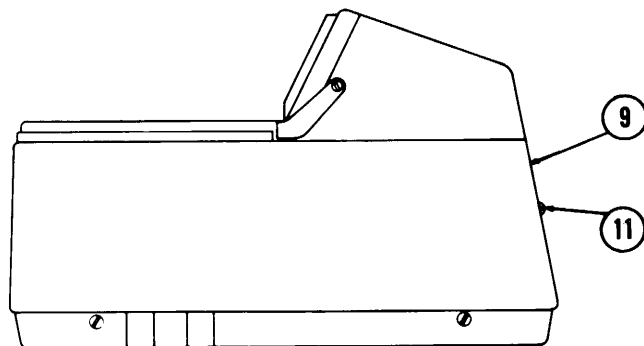
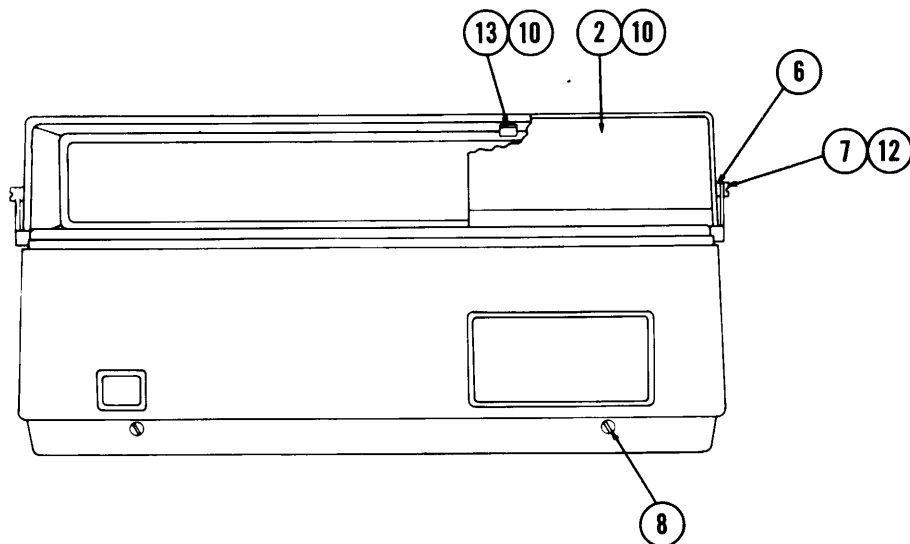
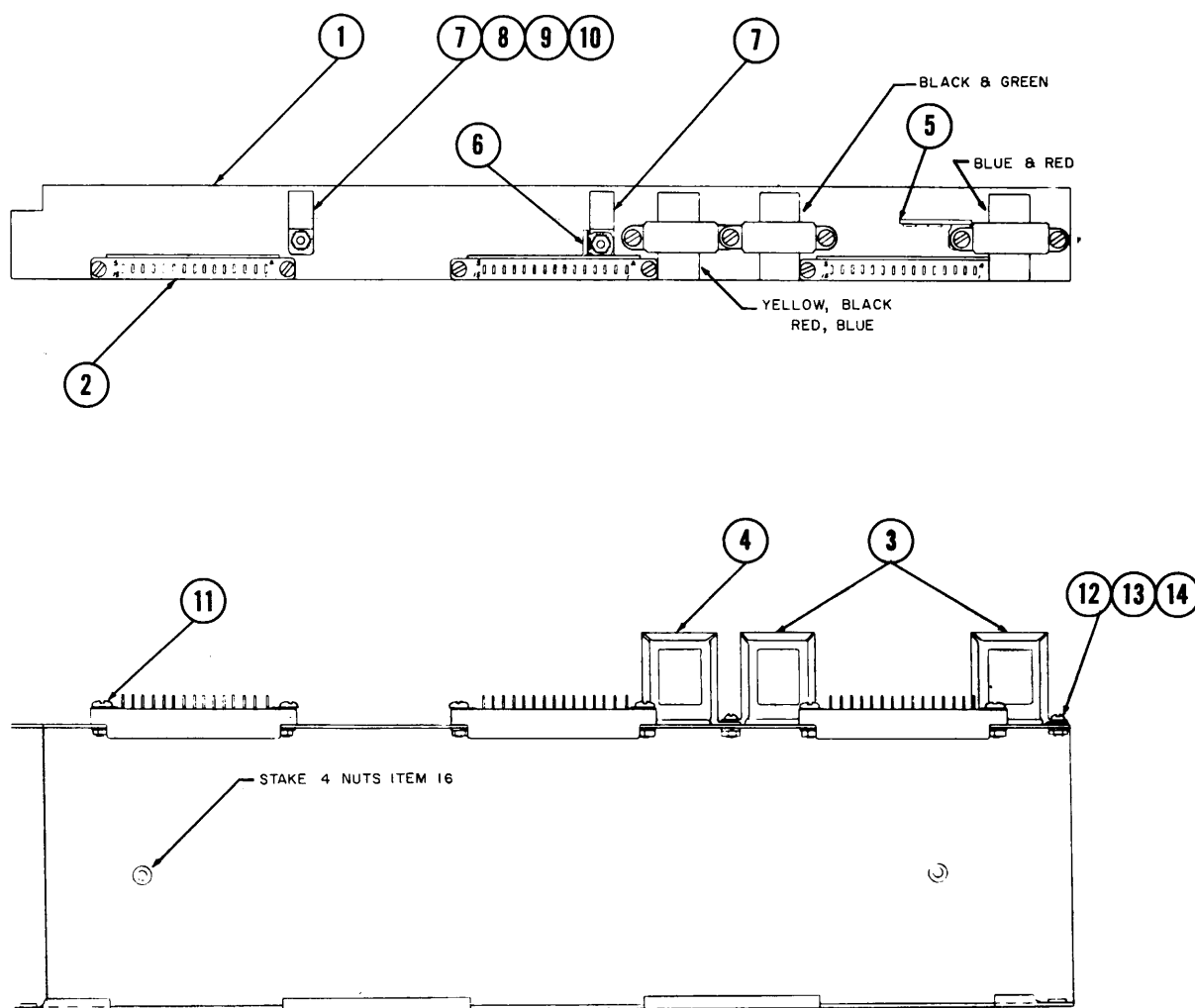


Figure 2. Assembly - Cabinet, WW-4123-12 (Part of Final Assembly, Figure 1).



ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-4156-34C	1	CARRIAGE
2	WW-4227-9A	3	SOCKET, 15 PIN
3	WW-4228-20	2	TRANSFORMER
4	WW-4226-20	1	TRANSFORMER
5	WW-1206-26	1	TERMINAL STRIP
6	WW-1211-26	1	TERMINAL STRIP
7	WW-4545-34A	2	CLAMP, PLASTIC
8	WW-1403-3	2	SCREW 6-32 X 1/2 RH
9	WW-1355-4	2	WASHER #6 EX. STAR
10	WW-1452-2	13	NUT 6-32 X 1/4
11	WW-3088-3	6	SCREW 6-32 X 7/16 BH
12	WW-1406-3	5	SCREW 6-32 X 1/4 RH
13	WW-1362-4	1	WASHER, FLAT 3/8 OD
14	WW-1354-4	11	WASHER, #6 SPLIT LOCK
16	WW-3048-2	4	NUT SELF-CLINCHING

EFFECTIVE SERIAL NO. 55423

Figure 3. Assembly - Carriage, Printed Circuit Board, WW-4279-1 (Part of Figure 20).

ITEM	PART NO.	QTY	DESCRIPTION
1	WW-4147-11C	1	RELAY HOUSING
2	PE-1275-D12	1	RELAY K3
3	PE-4032-D12	1	RELAY K2
4	WW-1213-26K	1	TERMINAL STRIP
5	PE-4029-B11	1	RELAY K1
6	PE-4031-A11	1	RELAY K8
7	PE-1270-A11	1	RELAY K7
8	PE-1272-D12	1	RELAY K5
9	PE-1373-D11	1	RELAY K10
10	PE-1273-D12	1	RELAY K11
11	PE-4029-A13	1	RELAY K4
12	WW-5704-37	1	RECTIFIER
13	WW-4231-20	1	CHOK, FILTER
14	WW-1107-9	1	JACK, PHONO 2 CKT
15	WW-1145-5	1	GROMMET, RUBBER 1/4
16	PE-4038-L11	1	RELAY K9
17	WW-1204-26	1	TERMINAL STRIP
18	PE-1458-A11	1	RELAY K19
19	WW-1492-2	2	NUT, KEPS, 6/32 X 1/4
20	WW-1203-26	2	TERMINAL STRIP
21	WW-1211-26	1	TERMINAL STRIP
22	WW-1212-26	1	TERMINAL STRIP
23	WW-1651-24	2	LUG, #6
24	WW-1438-3	21	SCREW 6-32 X 5/16
25	WW-1355-4	22	WASHER #6 EXT. STAR
26	WW-1209-26	2	TERMINAL STRIP
28	WW-1363-4	1	WASHER 3/8 X 5/8
29	WW-1357-4	1	WASHER, FIBRE 3/8 X 5/8
30	WW-1358-4	1	WASHER, SHOULDER
31	WW-1453-2	1	NUT, HEX. CAD. PLATE
33	WW-1206-26	1	TERMINAL STRIP

NOTES:

1. EFFECTIVE SERIAL NUMBER 80650
2. REPLACES WW-4596-1D

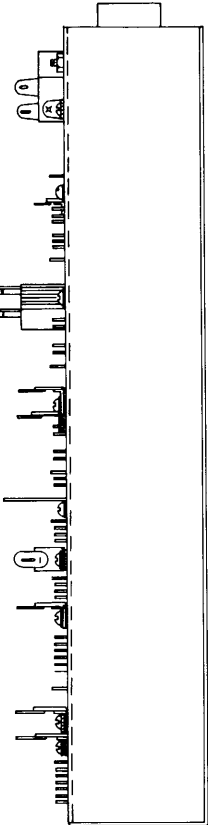
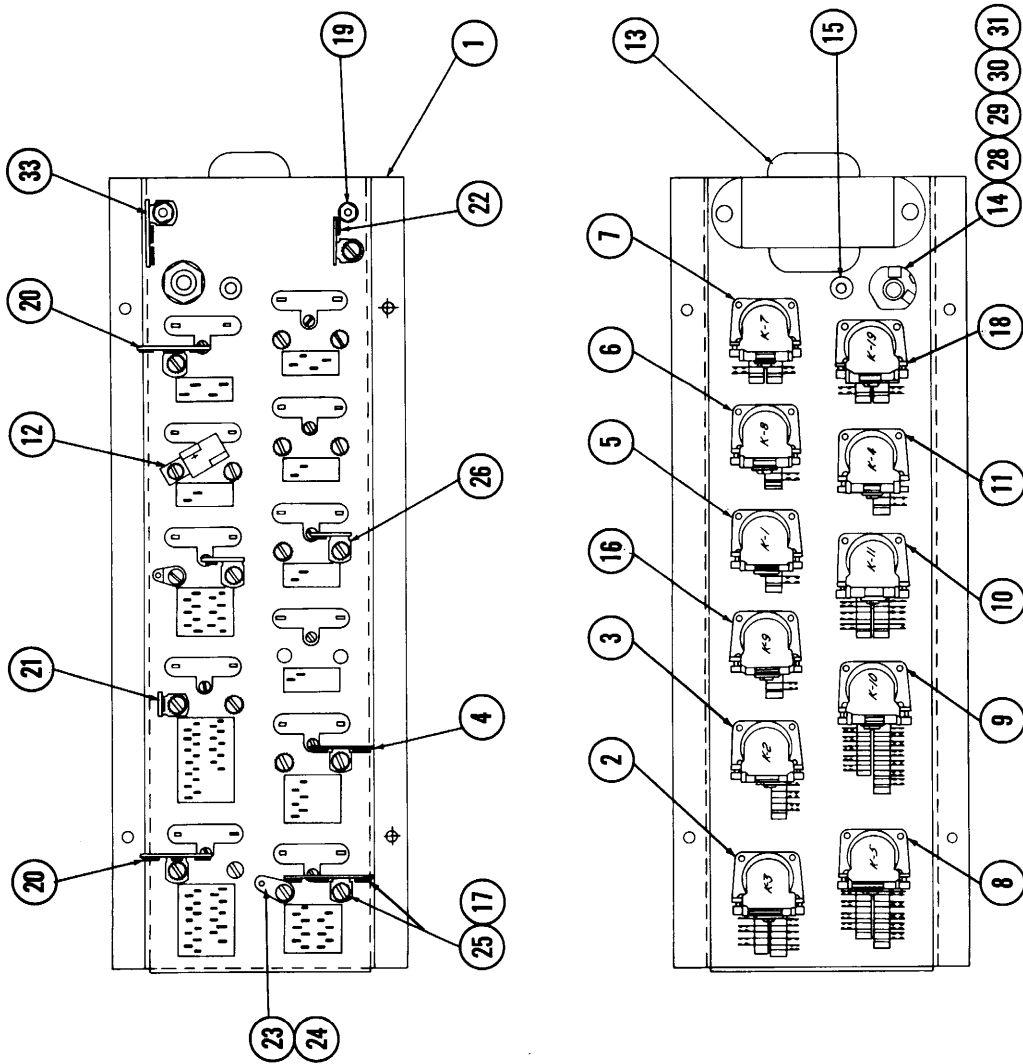
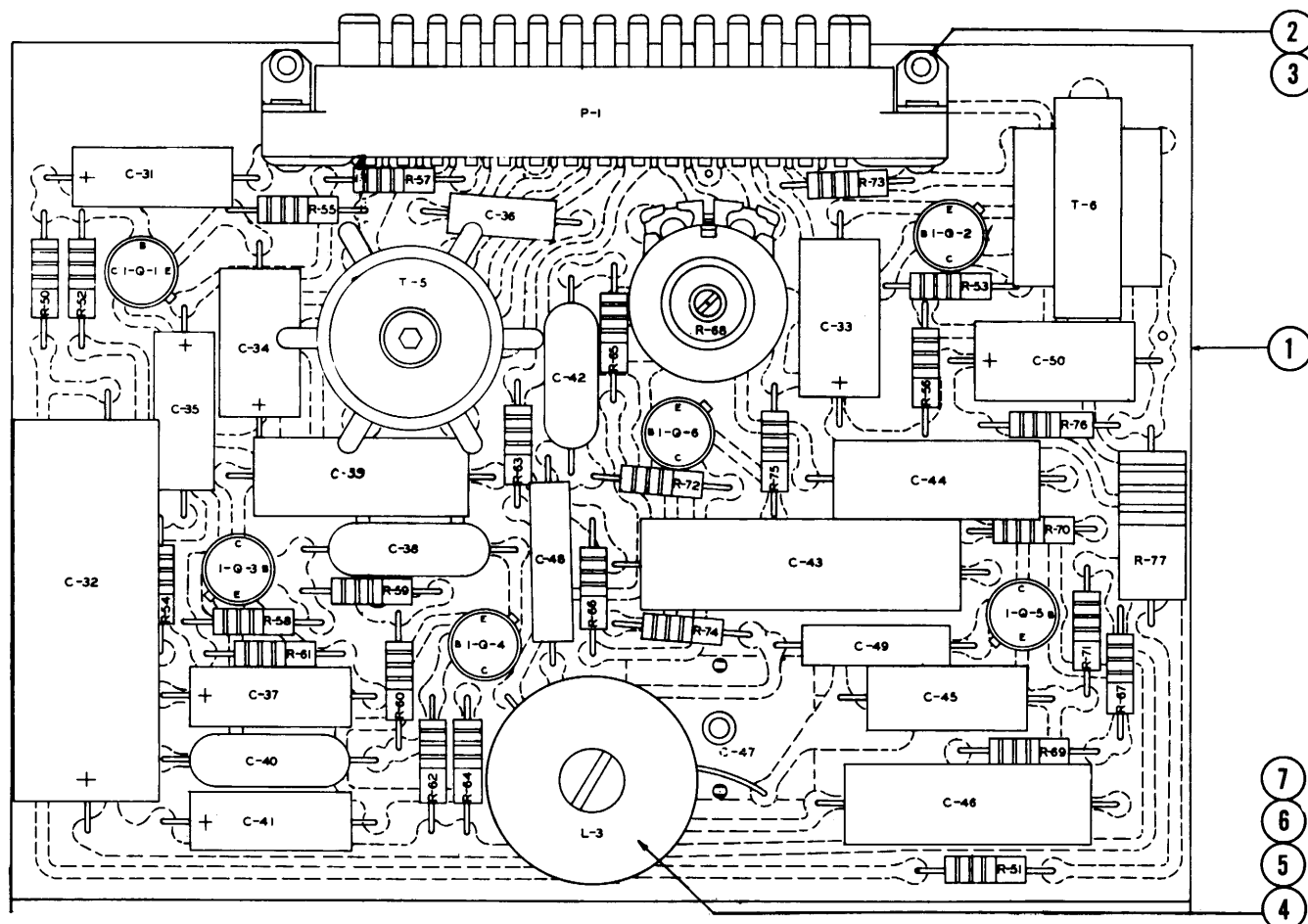


Figure 4. Assembly - Relay Housing, WW-5920-1 (Part of Assembly, Figure 22).

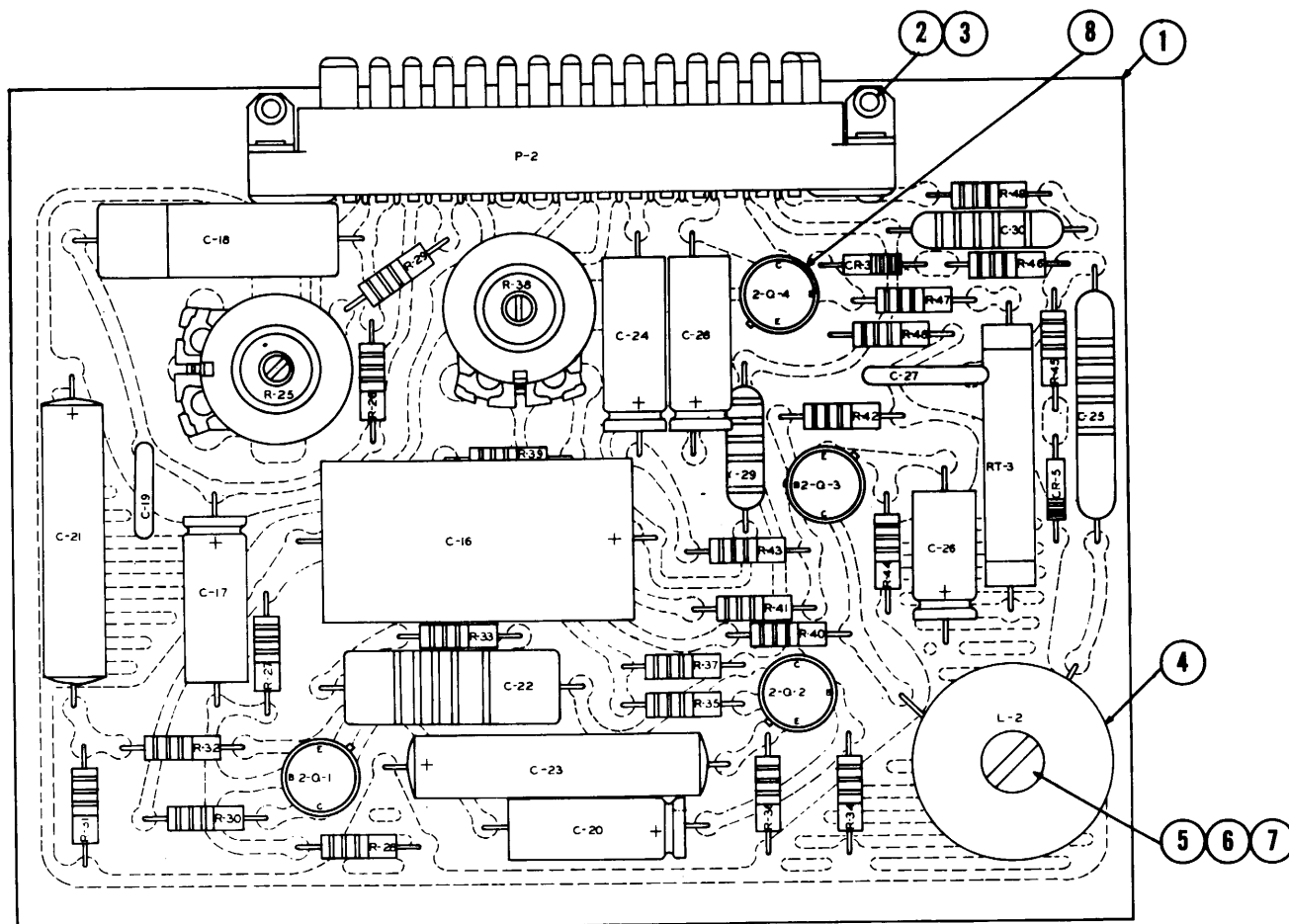


ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-4618-50	1	PC BOARD	C-47	WW-4182-17	1	100 TO 580MF TRIM
2	WW-1761-5K	2	EYELET, .123 X 7/32	C-48	WW-4180-17	1	100MMF, 500V MICA
3	WW-1352-4	2	WASHER, #4 FLAT	C-49	WW-4179-17	1	1000MF, 500V MICA
4	WW-1434-3	1	SCREW, 2-56 X 3/4	C-50	WW-4133-18	1	50MF, 15V ELECT
5	WW-1467-2	1	NUT, 2-56 X 3/16	R-50	WW-2432-6	1	39K Ω
6	WW-1374-4	2	WASHER #2 INT. STAR	R-51	WW-4185-6	1	330 Ω
7	WW-4364-4	1	WASHER 1" OD	R-52	WW-1834-6	1	10K Ω
P-1	WW-4192-31	1	PLUG, 15 PRONG	R-53	WW-1848-6	1	470K Ω
L-3	WW-4191-20	1	TOROID, .964 HY	R-54	WW-1831-6	1	3300 Ω
T-5	WW-3838-19	1	TRANSFORMER, OSC.	R-55	WW-1829-6	1	1000 Ω
T-6	WW-4193-20	1	TRANSFORMER	R-56	WW-4185-6	1	330 Ω
1-Q1	WW-4614-37	1	TRANSISTOR	R-57	WW-2748-6	1	470 Ω
1-Q2	WW-4614-37	1	TRANSISTOR	R-58	WW-1854-6	1	2200 Ω
1-Q5	WW-4614-37	1	TRANSISTOR	R-59	WW-1841-6	1	100K Ω
1-Q6	WW-4614-37	1	TRANSISTOR	R-60	WW-4188-6	1	22 Ω
1-Q3	WW-4541-37	1	TRANSISTOR	R-61	WW-1841-6	1	100K Ω
1-Q4	WW-4541-37	1	TRANSISTOR	R-62	WW-1854-6	1	2200 Ω
C-31	WW-3456-18	1	5MF 25V ELECT	R-63	WW-1836-6	1	22K Ω
C-32	WW-4132-18	1	250MF, 15V ELECT	R-64	WW-4188-6	1	22 Ω
C-33	WW-4133-18	1	50MF, 15V ELECT	R-65	WW-2371-6	1	33K Ω
C-34	WW-4132-18	1	250MF, 15V ELECT	R-66	WW-1871-6	1	2200 Ω
C-35	WW-3281-18	1	10MF, 25V ELECT	R-67	WW-1832-6	1	4700 Ω
C-36	WW-4181-17	1	300MMF, 500V MICA	R-68	WW-4190-14	1	POTENTIOMETER
C-37	WW-3281-18	1	10MF, 25V ELECT				50K Ω
C-38	WW-4137-17	1	.022MF, 100V TUB				470K Ω
C-39	WW-4142-17	1	.15MF, 100V TUB				180K Ω
C-40	WW-4137-17	1	.022MF, 100V TUB				6800 Ω
C-41	WW-3281-18	1	10MF, 25V TUB				82K Ω
C-42	WW-4137-17	1	.022MF, 100V TUB				
C-43	WW-4183-17	1	.15MF, 200V TUB				
C-44	WW-4136-17	1	.1MF, 100V TUB				
C-45	WW-4141-17	1	.022MF, 50V TUB				
C-46	WW-4146-17	1	.033MF, 50V TUB				
				R-73	WW-2371-6	1	33K Ω
				R-74	WW-1850-6	1	1 MEG Ω
				R-75	WW-1826-6	1	100 Ω
				R-76	WW-4188-6	1	22 Ω
				R-77	WW-3099-6	1	150 Ω 2W $\pm$ 10%

NOTE:

ALL RESISTORS ARE ONE
HALF WATT 10% UNLESS
OTHERWISE SPECIFIED.

Figure 5. Assembly - Printed Circuit Board No. 1, WW-4610-1 (Part of Final Assembly, Figure 1).



NOTES:

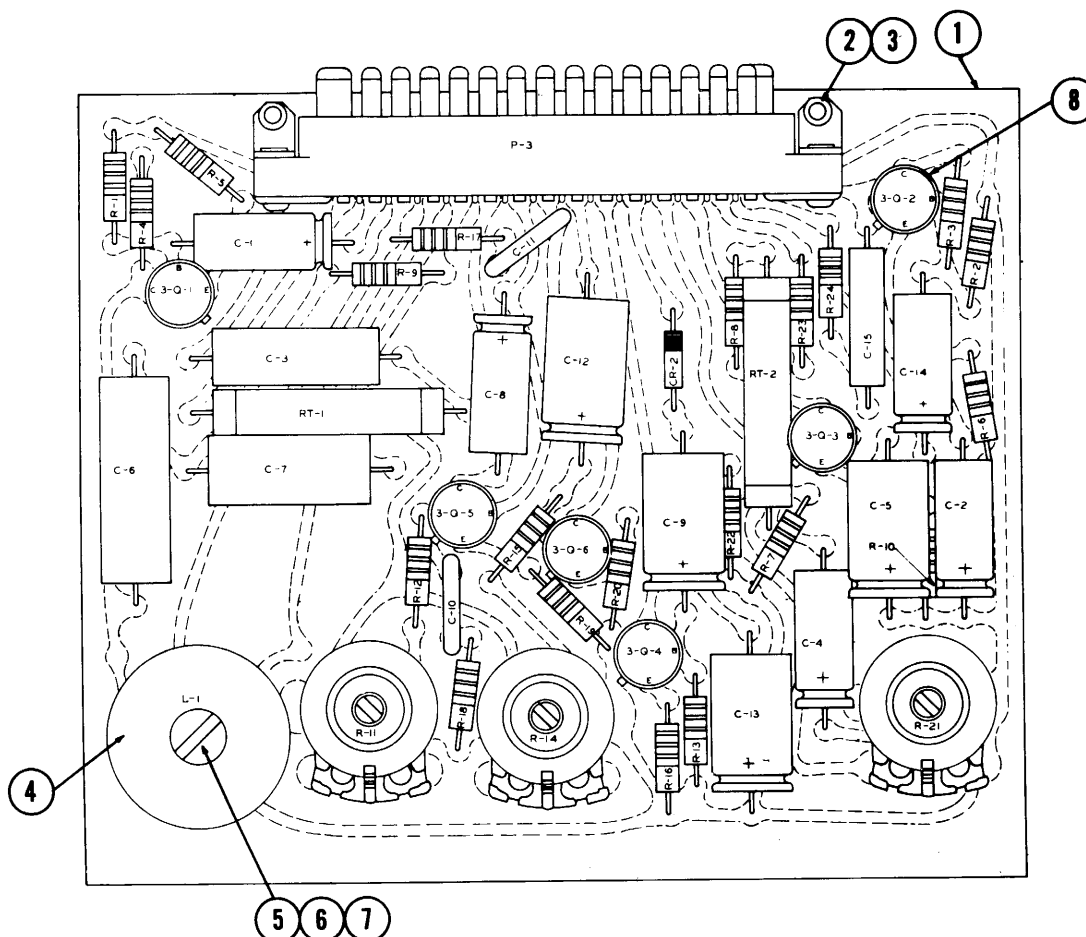
1. ALL RESISTORS ARE IN OHMS AND ONE HALF WATT 10% UNLESS OTHERWISE SPECIFIED.
2. EFFECTIVE SERIAL NO. 56099
3. USED ON WW-757-15E
WW-782-15E
WW-784-15E
WW-791-15E

ITEM	PART NO.	QTY.	DESCRIP. RES.
R-25	WW-4164-14	1	POT, 500K
R-26	WW-1838-6	1	47K
R-27	WW-1841-6	1	100K
R-28	WW-1834-6	1	10K
R-29	WW-3105-6	1	2MEG. 5%
R-30	WW-1833-6	1	6800
R-31	WW-1829-6	1	1000
R-32	WW-3667-6	1	68 5%
R-33	WW-1844-6	1	220K
R-34	WW-1834-6	1	10K
R-35	WW-1841-6	1	100K
R-36	WW-1829-6	1	1000
R-37	WW-1833-6	1	6800
R-38	WW-4200-14	1	POT, 1000
R-39	WW-1827-6	1	220
R-40	WW-2748-6	1	470
R-41	WW-1836-6	1	22K
R-42	WW-1834-6	1	10K
R-43	WW-1838-6	1	47K
R-44	WW-2748-6	1	470
R-45	WW-1854-6	1	2200
R-46	WW-1829-6	1	1000
R-47	WW-1833-6	1	6800
R-48	WW-4184-6	1	150
R-49	WW-1835-6	1	15K

ITEM	PART NO.	QTY	DESCRIPTION
1	WW-4415-50D	1	BOARD, PRINTED CKT.
2	WW-1761-5K	2	EYELET, .123 X 7/32
3	WW-1352-4	2	WASHER, #4 FLAT
4	WW-4364-4	1	WASHER, 1" DIA.
5	WW-2860-3	1	SCREW, 6-32 X 3/4
6	WW-1371-4	1	WASHER, #6 I.S.
7	WW-1452-2	1	NUT, 6-32 X 1/4
P-2	WW-4192-31A	1	PLUG, 15 PRONG
L-2	WW-4191-20	1	TOROID, .964 HY.
RT-3	WW-4202-37	1	THERMISTOR
CR-3			
&	WW-2111-37	2	DIODE
CR-5			
2Q-1			
TO	WW-4614-37A	4	TRANSISTOR
2Q-4			
8	WW-4604-35	4	SPACER

ITEM	PART NO.	QTY.	DESCRIP. -CAPS.
C-16	WW-4132-18	1	250MF. 15V. ELECT.
C-17	WW-4135-18	1	15MF. 15V. ELECT.
C-18	WW-4150-17	1	.0082 MF. 600V. TUB.
C-19	WW-1533-17	1	.01MF. 600V. DISC.
C-20	WW-3281-18	1	10MF. 25V. ELECT.
C-21	WW-4439-18	1	50MF. 25V. ELECT.
C-22	WW-3974-17	1	.1MF. 100V. TUB.
C-23	WW-4439-18	1	50MF. 25V. ELECT.
C-24	WW-3281-18	1	10MF. 25V. ELECT.
C-25	WW-4438-17	1	.015MF. 100V. TUB.
C-26	WW-3281-18	1	10MF. 25V. ELECT.
C-27	WW-3279-17	1	.1MF. 75V. DISC.
C-28	WW-3281-18	1	10MF. 25V. ELECT.
C-29	WW-3975-17	1	.0022 MF. 100V. TUB.
C-30	WW-4715-17	1	.0068MF 100V. TUB.

Figure 6. Assembly - Printed Circuit Board No. 2, WW-4441-1 (Part of Final Assembly, Figure 1).



NOTES:

1. ALL RESISTORS ARE IN OHMS AND ARE ONE HALF WATT
10% UNLESS OTHERWISE SPECIFIED
2. EFFECTIVE SERIAL NO. 56099

ITEM	PART NO.	QTY.	DESCRIPTION RESISTORS
R-1	WW-1831-6	1	3300 Ω
R-2	WW-1830-6	1	1500 Ω
R-3	WW-1835-6	1	15K Ω
R-4	WW-1834-6	1	10K Ω
R-5	WW-4332-6	1	680 Ω
R-6	WW-4197-6	1	10 Ω
R-7	WW-1833-6	1	6800 Ω
R-8	WW-1836-6	1	22K Ω
R-9	WW-1839-6	1	56K Ω
R-10	WW-4185-6	1	330 Ω
R-11	WW-4198-14	1	POT 100K Ω
R-12	WW-1835-6	1	15K Ω
R-13	WW-1831-6	1	3300 Ω
R-14	WW-4199-14	1	POT 250K Ω
R-15	WW-2371-6	1	33K Ω
R-16	WW-4197-6	1	10 Ω
R-17	WW-1830-6	1	1500 Ω
R-18	WW-1830-6	1	1500 Ω
R-19	WW-1827-6	1	220 Ω
R-20	WW-1827-6	1	220 Ω
R-21	WW-4200-14	1	POT 1000 Ω
R-22	WW-1854-6	1	2200 Ω
R-23	WW-2748-6	1	470 Ω
R-24	WW-1835-6	1	15K Ω

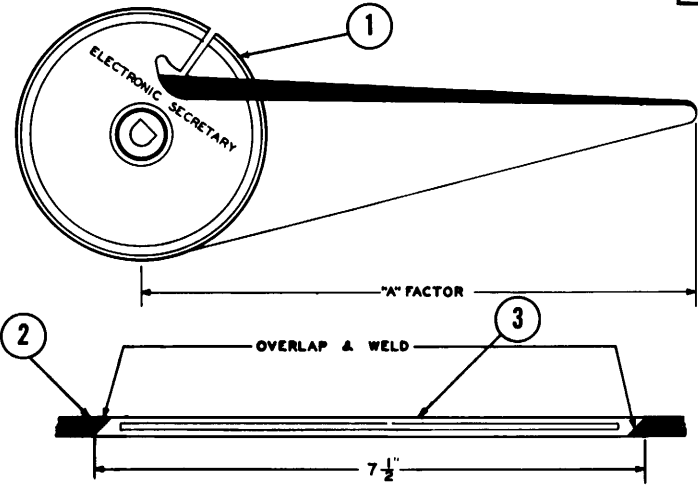
ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-3901-50	1	BOARD PRINTED CKT.
2	WW-1761-5K	2	EYELET .123 X 7/32
3	WW-1352-4	2	WASHER #4 FLAT
4	WW-4364-4	1	WASHER 1" DIA.
5	WW-1417-3	1	SCREW 4-32 X 3/4
6	WW-3392-4	1	WASHER #4 I.S.
7	WW-1458-2	1	NUT 4-32 X 1/4
P-3	WW-4192-31A	1	PLUG 15 PRONG
L-1	WW-4201-20	1	TOROID .864 HY
CR-2	WW-2111-37	1	DIODE
RT-1 & RT-2	WW-4202-37	2	THERMISTOR
3-Q-1 & 3-Q-6	WW-4614-37A	6	TRANSISTOR
8	WW-4604-35	6	SPACER

ITEM	PART NO.	QTY.	DESCRIPTION CAPACITORS
C-1	WW-3281-18	1	10MF 25V ELECT
C-2	WW-3281-18	1	10MF 25V ELECT
C-3	WW-3974-17	1	.1MF100V TUB
C-4	WW-3281-18	1	10MF 25V ELECT
C-5	WW-4133-18	1	50MF 15V ELECT
C-6	WW-4195-17	1	.047MF50V TUB
C-7	WW-4141-17	1	.022MF50V TUB
C-8	WW-4133-18	1	50MF 15V ELECT
C-9	WW-4133-18	1	50MF 15V ELECT
C-10	WW-3279-17	1	.1MF75V DISC
C-11	WW-3279-17	1	.1MF75V DISC
C-12	WW-4133-18	1	50MF 15V ELECT
C-13	WW-4133-18	1	50MF 15V ELECT
C-14	WW-3281-18	1	10MF 25V ELECT
C-15	WW-4196-17	1	.0039MF100V TUB

Figure 7. Assembly - Printed Circuit Board No. 3, WW-4277-1 (Part of Final Assembly, Figure 1).

ITEM	PART NO.	QTY	DESCRIPTION
1		1	ASSEMBLY, TAPE CARTRIDGE (SEE FIGURE 9)
2	WW-5923-52	AR	TAPE, RECORDING
3	WW-1771-34A	1	BAND, SWITCH ACTUATING

USED ON WW-782-15



RUNNING TIME	X FACTOR LENGTHS
30 SECOND TAPE	- 7 1/2 INCHES
45 SECOND TAPE	- 7 1/2 INCHES
60 SECOND TAPE	- 7 1/2 INCHES
75 SECOND TAPE	- 8 1/2 INCHES
90 SECOND TAPE	- 8 1/2 INCHES
105 SECOND TAPE	- 8 1/2 INCHES
120 SECOND TAPE	- 10 1/2 INCHES
135 SECOND TAPE	- 11 1/2 INCHES
150 SECOND TAPE	- 12 1/2 INCHES
175 SECOND TAPE	- 13 1/2 INCHES
180 SECOND TAPE	- 14 INCHES

Figure 8. Cartridge with Tape, WW-5102-44 (Part of Final Assembly, Figure 1).

ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-5546-11C	1	COVER
2	WW-5547-1C	1	ASSY PLATE & GUIDE
3	WW-5545-35B	1	HUB
4	WW-5544-34A	1	RETAINER RING

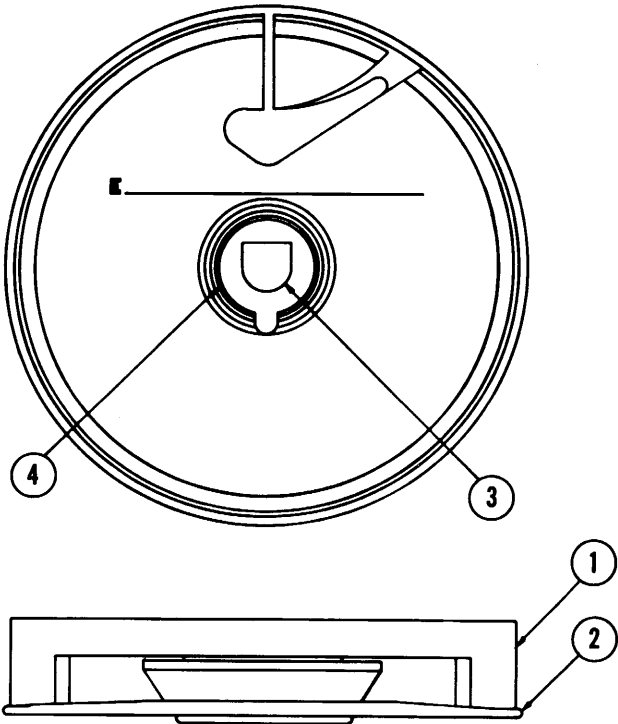
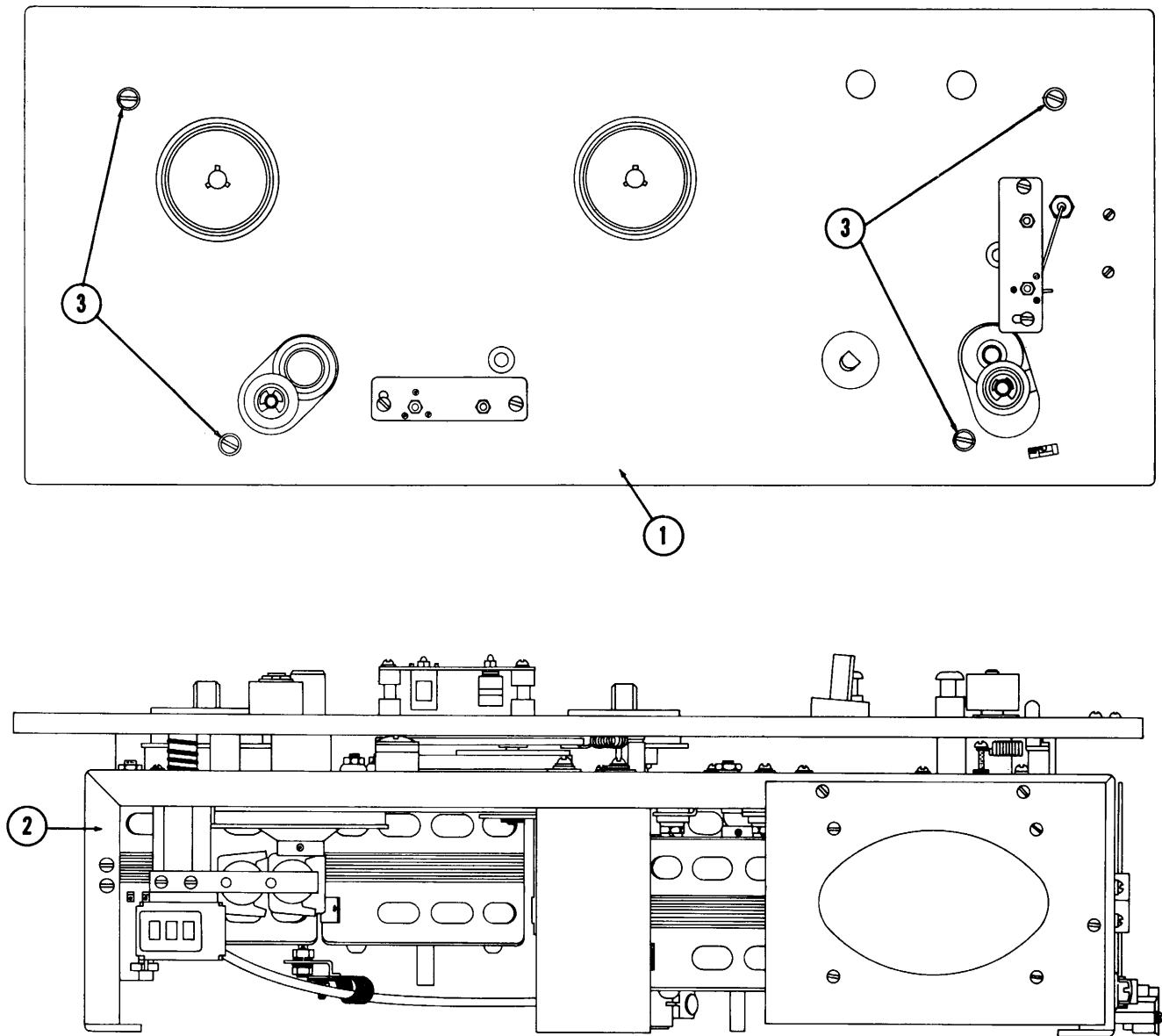


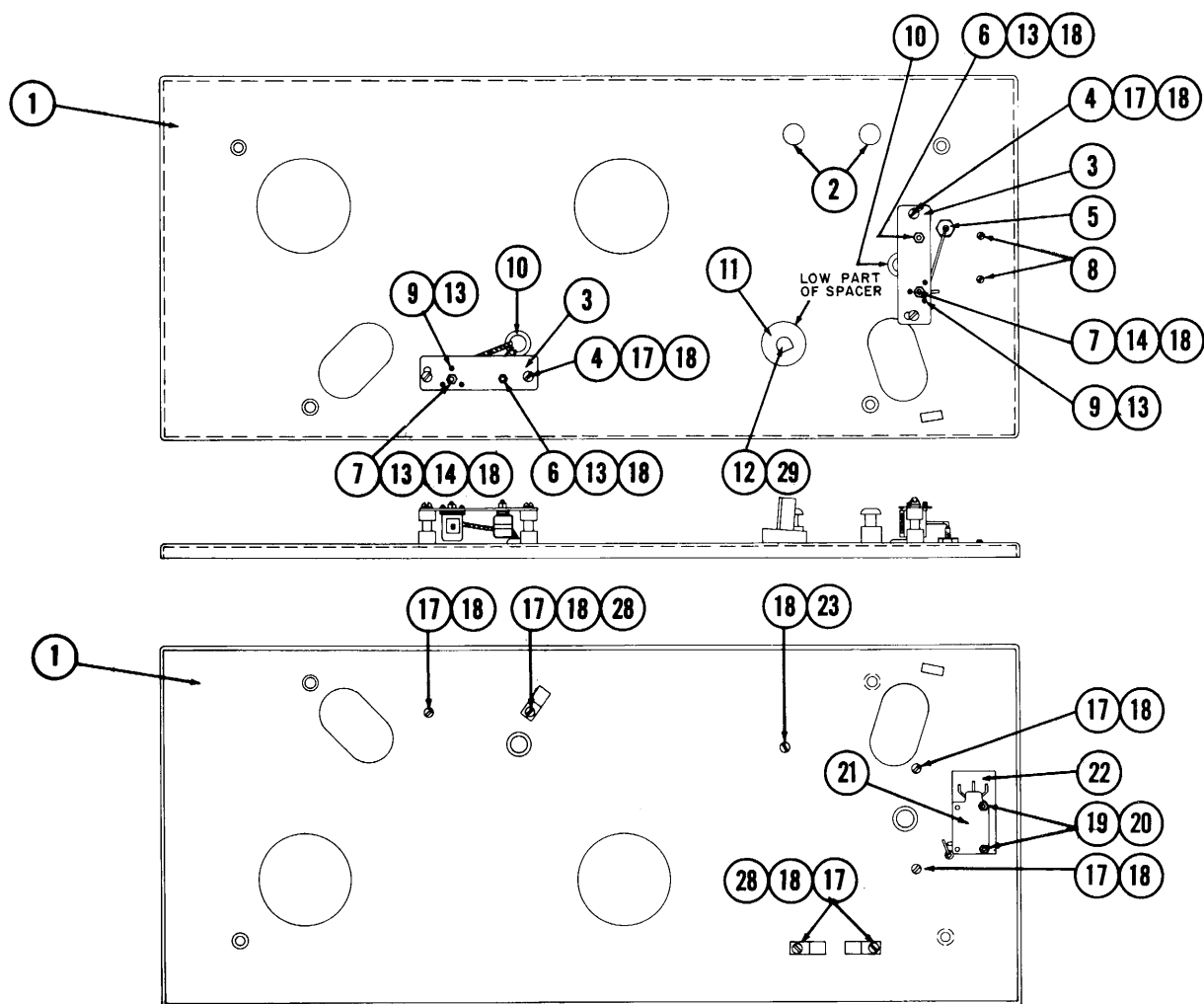
Figure 9. Tape Cartridge, WW-5548-44 (Part of Assembly, Figure 8).



- NOTES:
- 1. REPLACES WW-4379-1D
 - 2. EFFECTIVE SERIAL NO. 56099

ITEM	PART NO.	QTY.	DESCRIPTION
1		1	ASSY TAPE DECK (SEE FIG. 11)
2		1	ASSY TAPE TRANSPORT (SEE FIG. 24)
3	WW-1437-3	4	SCREW 10-32 X 1/2

Figure 10. Assembly - Tape Mechanism, WW-4584-1 (Part of Assembly, Figure 23).



- NOTES:
- 1. EFFECTIVE SERIAL NO. 56099
 - 2. REPLACES WW-3798-1D

ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-4566-45D	1	DECK PLATE
2	WW-3751-36A	2	PILLAR, TAPE GUIDE
3	WW-1124- TA	2	HEAD BRACKET
4	WW-3937-36A	4	PILLAR
5		1	ASS'Y ACTUATOR (SEE FIG. 12)
6	WW-4446-44A	2	ERASE HEAD
7	WW-5392-44A	2	RECORD HEAD
8	WW-2299-3C	2	SCREW 2-56 X 1/2
9	WW-1433-3C	6	SET SCREW 4-36
10	WW-1009-5A	2	GROMMET
11	WW-3952-35A	1	SPACER, ANGLE
12	WW-1047-36A	1	PILLAR, CARTRIDGE
13	WW-3166-2	4	6-32 CAP NUTS
14	WW-1375-4	2	FLAT WASHER
15			
16			
17	WW-3939-3	10	SCREW 6-32 X 5/16
18	WW-1371-4	15	WASHER #6 INT. STAR
19	WW-1374-4	2	WASHER #2 INT. STAR
20	WW-1467-2	2	NUT 2-56 HEX
21	WW-1074-32A	1	SWITCH
22	WW-1098-53A	1	INSULATOR
23	WW-1403-3	1	SCREW 6-32 X 1/2
24			
25			
26			
27			
28	WW-1095-34A	3	CLAMP, CABLE
29	WW-4124-34A	1	PIN, ROLL
30			

Figure 11. Assembly - Tape Deck, WW-4583-1 (Part of Assembly, Figure 10).

ITEM	PART NO.	DESCRIPTION
1	WW-1097-33A	SPRING FORMED
2	WW-4749-35A	BUSHING ACTUATOR
3	WW-1458-2C	NUT HEX 10/32 X 3/8

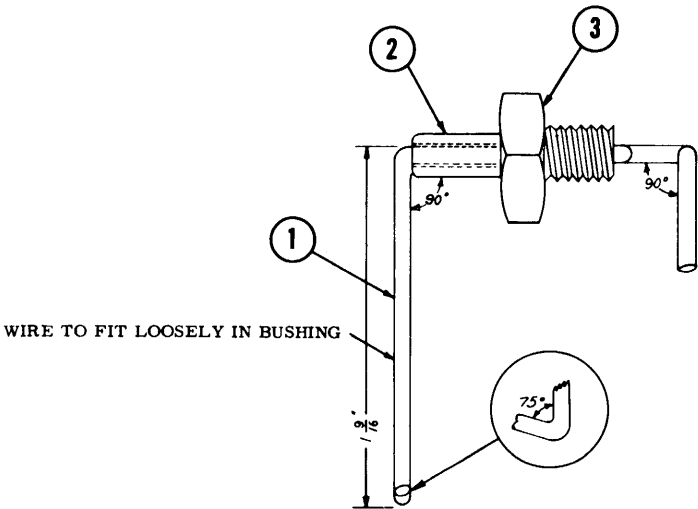
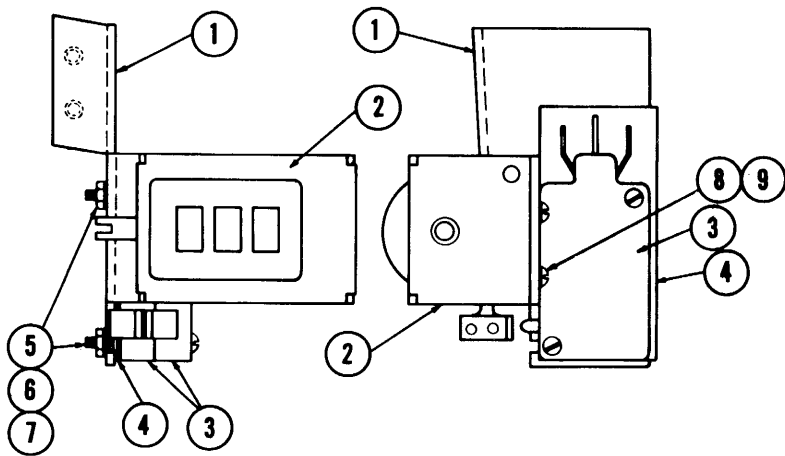


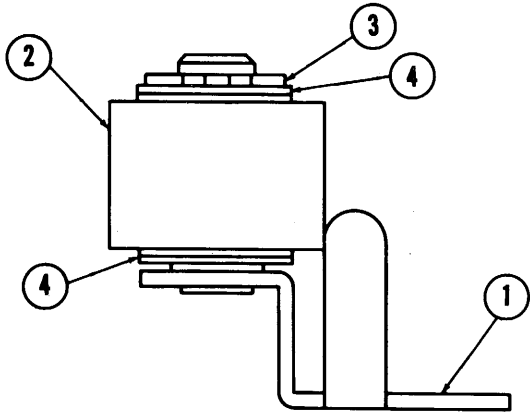
Figure 12. Assembly - Actuator, WW-4750-1 (Part of Assembly, Figure 11).



USED ON WW-5178-1E
WW-4800-1D

ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-5327-7	1	BRACKET
2	WW-3850-44C	1	TIME INDICATOR
3	WW-1074-32A	2	SWITCH S502, S503
4	WW-1098-53A	1	INSULA TOR
5	WW-1434-3	2	SCREW - 2-56 X 3/4"
6	WW-1467-2	2	NUT - 2-56 X 3/8"
7	WW-1374-4	2	WASHER - #2 INT STAR
8	WW-2316-3	2	SCREW 6-32 X 3/16"
9	WW-1354-4	2	#6 LOCKWASHER

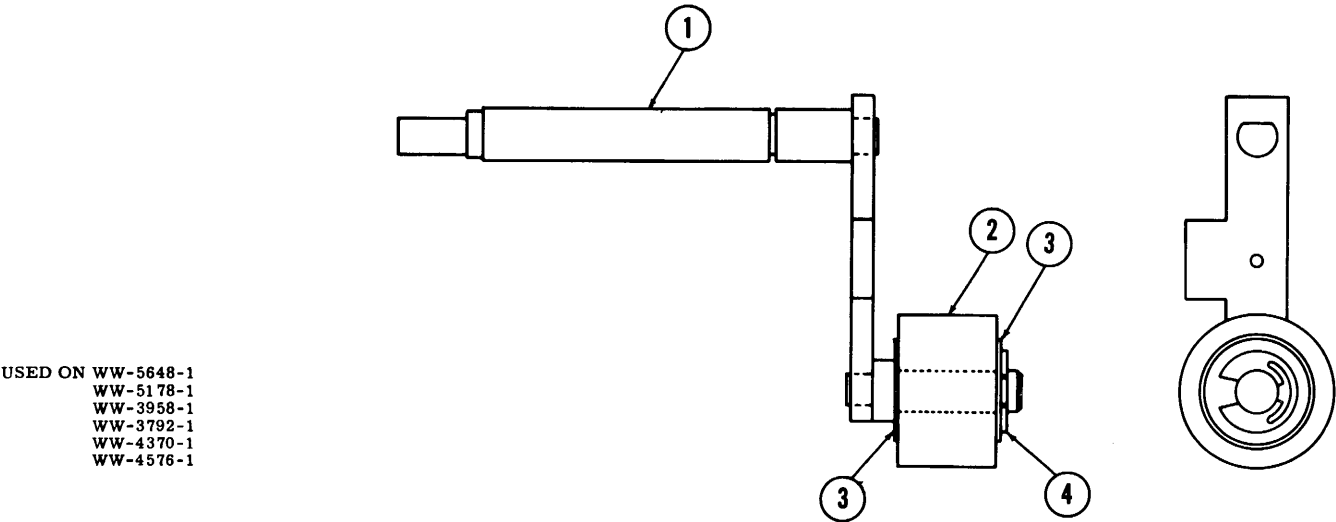
Figure 13. Assembly - Timer, WW-3809-1 (Part of Assembly, Figure 24).



ITEM	PART NO.	QTY	DESCRIPTION
1	WW-4549-1B	1	ASS'Y SUPPORT ARM
2	WW-3846-38A	1	ASS'Y PRES. ROLLER
3	WW-3209-34A	1	RING, RETAINING
4	WW-3947-4	2	WASHER, DELRIN

NOTE:
1. EFFECTIVE SERIAL NO. 56099
USED ON WW-4576-1D

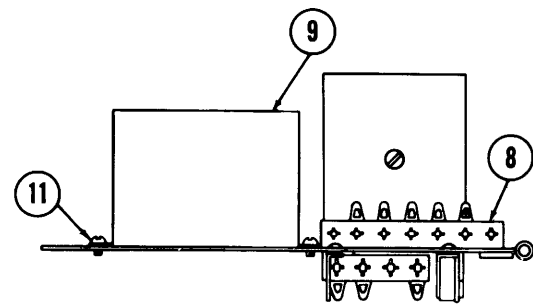
Figure 14. Assembly - Pressure Roller, WW-4606-1 (Part of Assembly, Figure 24).



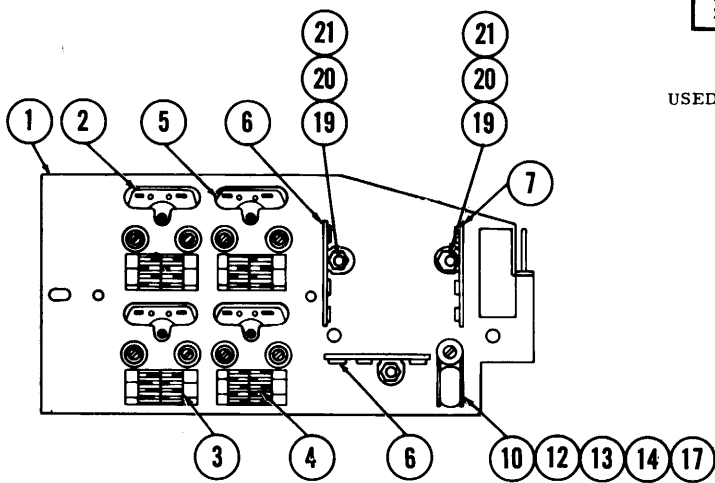
USED ON WW-5648-1
WW-5178-1
WW-3958-1
WW-3792-1
WW-4370-1
WW-4576-1

ITEM	PART NO.	QTY	DESCRIPTION
1	WW-5725-1B	1	ASS'Y PRESSURE ROLLER SUPPORT
2	WW-3846-38A	1	ASS'Y PRESSURE ROLLER
3	WW-3947-4	2	WASHER (DELRIN)
4	WW-3209-34A	1	RETAINING RING "E"

Figure 15. Assembly - Pressure Roller, WW-3845-1 (Part of Assembly, Figure 24).



ITEM	PART NO.	QTY	DESCRIPTION
1	WW-4568-1B	1	WELD ASS'Y MOTOR PANEL
2	WW-4601-49C	1	RELAY K 504
3	WW-4598-49C	1	RELAY K 501
4	WW-4599-49C	1	RELAY K 502
5	WW-4639-49C	1	RELAY K 503
6	WW-1204-26K	2	TIE STRIP 4 LUG
7	WW-1207-26K	1	TIE STRIP 4 LUG
8	WW-2389-26K	1	TIE STRIP 7 LUG
9	WW-3840-11B	1	COVER RELAY
10	WW-3399-34A	1	CLAMP, CABLE
11	WW-2316-3	2	6-32 X 3/16" SCREW
12	WW-3089-3	1	6-32 X 1/4" SCREW BHMS
13	WW-1371-4	2	WASHER #6 INT. STAR
14	WW-1362-4	2	WASHER #6 FLAT
15	WW-5169-7A	1	BRACKET CAP MTG.
16	WW-5170-45A	1	PLATE CAP MTG.
17	WW-1217-26K	1	TIE STRIP 1 LUG
18	WW-1425-3	1	6-32 X 1-1/4" SCREW
19	WW-1402-3	2	4-36 X 3/8" SCREW
20	WW-1451-2	2	NUT #4
21	WW-5025-4	4	WASHER #4



USED ON WW-4576-1D
WW-5178-1D

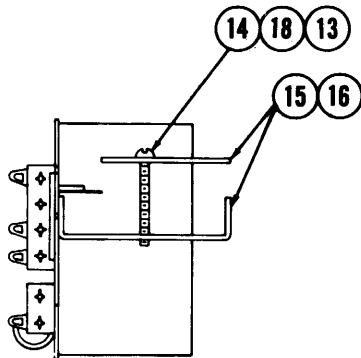
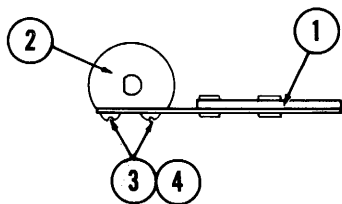


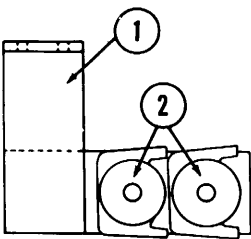
Figure 16. Assembly - Motor Control, WW-4575-1 (Part of Assembly, Figure 24).



USED ON WW-3958-1D
WW-5411-1E
WW-3792-1D

ITEM	PART NO.	QTY	DESCRIPTION
1	WW-3926-1A	1	ASS'Y CLAPPER ARM
2	WW-3909-35A	1	CLAPPER HUB
3	WW-2316-3	2	6-32 X 3/16" RHMS
4	WW-1371-4	2	#6 LOCKWASHER

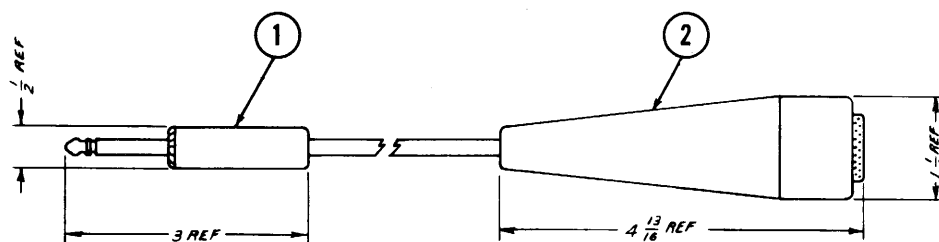
Figure 17. Assembly - Clapper, WW-3925-1 (Part of Assembly, Figure 24).



USED ON WW-4576-1D
WW-5178-1D

ITEM	PART NO.	QTY	DESCRIPTION
1	WW-3912-7A	1	MAGNET SUPPORT ASS'Y.
2	WW-4597-44A	2	MAGNET L501, L502.
3	WW-1438-3D	2	SCREW, 6-32 X 5/16"
4	WW-1371-4	2	WASHER INT. STAR

Figure 18. Assembly - Magnet, WW-3930-1 (Part of Assembly, Figure 24).



NOTE:

1. EQUIPPED WITH TRANSFORMER FOR 1500 OHMS OUTPUT IMPEDANCE ASTATIC CORP. OR EQUIV.

ITEM	PART NO.	QTY	DESCRIPTION
1	WW-1186-31A	1	PLUG, MICROPHONE
2	WW-4265-39	1	MICROPHONE, MAGNETIC

Figure 19. Assembly - Microphone Magnetic, WW-4342-1 (Part of Final Assembly, Figure 1).

ITEM	PART NO.	QTY.	DESCRIPTION
1		1	ASSEMBLY PC CARRIAGE (SEE FIGURE 3)
2		1	ASSEMBLY CHASSIS (SEE FIGURE 22)
CA2	WW-4577-25D	1	HARNESS RELAY
CA3	WW-4578-25D	1	HARNESS MAIN
CA4	WW-2023-25	14	TWO CONDUCTOR SHIELD
CA5	WW-2023-25	17 1/4	TWO CONDUCTOR SHIELD
CA6	WW-2023-25	7 1/2	TWO CONDUCTOR SHIELD
CA7	WW-5534-25	8 ft.	CABLE & PLUG
CA8	WW-2023-25	17	TWO CONDUCTOR SHIELD
CA9	WW-2023-25	10 1/2	TWO CONDUCTOR SHIELD
	WW-5930-54E	REF	SCHEMATIC
F1	WW-1007-46	1	FUSE 3 AMP
F2	WW-3465-46	1	FUSE 1 1/2 AMP
X	WW-1230-30	AR	SLEEVEING
Y	WW-1226-30	AR	SLEEVEING
3	WW-5952-24	8	LUG, TERMINAL RESISTORS
R79	WW-1826-6	1	100 Ω , 1/2W
R80	WW-3282-6	1	47 Ω , 1/2W
R85	WW-1834-6	1	10K Ω , 1/2W
R86	WW-4185-6	1	330 Ω , 1/2W
R87	WW-1835-6	1	15K Ω , 1/2W
R88	WW-2371-6	1	33K Ω , 1/2W
R89	WW-2371-6	1	33K Ω , 1/2W
R91	WW-1854-6	1	2200 Ω , 1/2W
R92	WW-4603-13	1	3.3 Ω , 1W
R96	WW-4296-13	1	10 Ω , 10W
R100	WW-3282-6	1	47 Ω , 1/2W
RT4	WW-4202-37	1	THERMISTOR
RT5	WW-4202-37	1	THERMISTOR
R106	WW-5465-6	1	12K Ω , 2W
C52	WW-3256-17	1	2MF, 200V, PAPER
C53	WW-3307-18	1	500MF, 25V, ELECT
C54	WW-4208-18	1	500MF, 15V, ELECT
C55	WW-1350-17	1	.01MF, 1000V, DISC.
C56	WW-4149-18	1	20MF, 150V ELECT.
C57	WW-4149-18	1	20MF, 150V, ELECT.
C63	WW-3455-17	1	47MF, 200V, PAPER
C64	WW-4579-18	1	8MF, 150V, ELECT.
C65	WW-4579-18	1	8MF, 150V, ELECT.
C71	WW-4105-18	1	200MF, 100V, ELECT.
CR13	WW-4114-37	1	DIODE PT5

ITEM	PART NO.	LENGTH	COLOR DESCIP.	STA.
D1	WW-4099-25	3-1/4	BL/SL	4
D2	WW-4312-25	5	SHIELD	4/9
D3	WW-1277-25	7/16	BARE	4
D4	WW-4099-25	5/8	BL/SL	4
D5	WW-4099-25	2-1/2	BL/SL	4
D6	WW-1277-25	5/8	BARE	4
D7	WW-4101-25	5-7/8	WH/GN	13
D8	WW-4089-25	2-1/2	GN	2
D9	WW-4241-25	2	R/BR	9
D10	WW-4096-25	3-1/4	R/WH	1
D11	WW-4097-25	1-3/4	WH/SL	1
D12	WW-4088-25	3-1/4	SL	1
D13	WW-4101-25	2-1/4	WH/GR	8
D14	WW-4101-25	1-3/8	WH/GR	8
D15	WW-4091-25	2-3/8	WH/BR	8
D16	WW-4091-25	1-1/2	WH/BR	8
D17	WW-4091-25	2-3/4	WH/BR	8
D18	WW-4089-25	2-3/8	GN	8
D19	WW-4089-25	1-7/8	GN	8
D20	WW-4246-25	1-3/4	R/BR/WH	8
D21	WW-4092-25	3	BR	12/13
D22	WW-4092-25	5-1/4	BR	13
D23	WW-2235-25	6-3/4	BLACK CLOTH	2
D24	WW-4101-25	1-1/2	WH/GN	4
D25	WW-4087-25	1-3/4	R	11
D26	WW-4088-25	11	SL	13
D27	WW-4093-25	6-1/2	BL	13
D28	WW-4092-25	2	BROWN	4
D29	WW-2354-25	4	RED CLOTH	1
D30	WW-5363-25	10	WH/YL	2/3
D31	WW-4096-25	8	R/WH	1
D32	WW-4087-25	5	R	3
D33	WW-4092-25	6	BR	2
D34	WW-4312-25	9	SHIELD	4/8
D35	WW-4312-25	6	SHIELD	1
D36	WW-4102-25	5	OR/WH	3
D37	WW-4092-25	2	BN	11
D38	WW-4560-25	2	WH	9
D39	WW-4101-25	2-3/4	WH/GN	5
D40	WW-4090-25	3-1/2	OR	13
D41	WW-2236-25	3	GREEN CLOTH	2
D42	WW-4087-25	1-1/2	R	4
D43	WW-4246-25	1	R/WH/BR	11
D44	WW-4099-25	1-1/2	BL/SL	4
D45	WW-4097-25	3	WH/SL	10
D46	WW-4560-25	4	WHITE	9
D47	WW-1277-25	1-1/2	BARE	2

EFFECTIVE SERIAL NUMBER 80650
REPLACES WW-5128-1E

Figure 20. Assembly - Chassis Wiring - Sheet 2 of 2, WW-5922-1 (Part of Final Assembly, Figure 1).

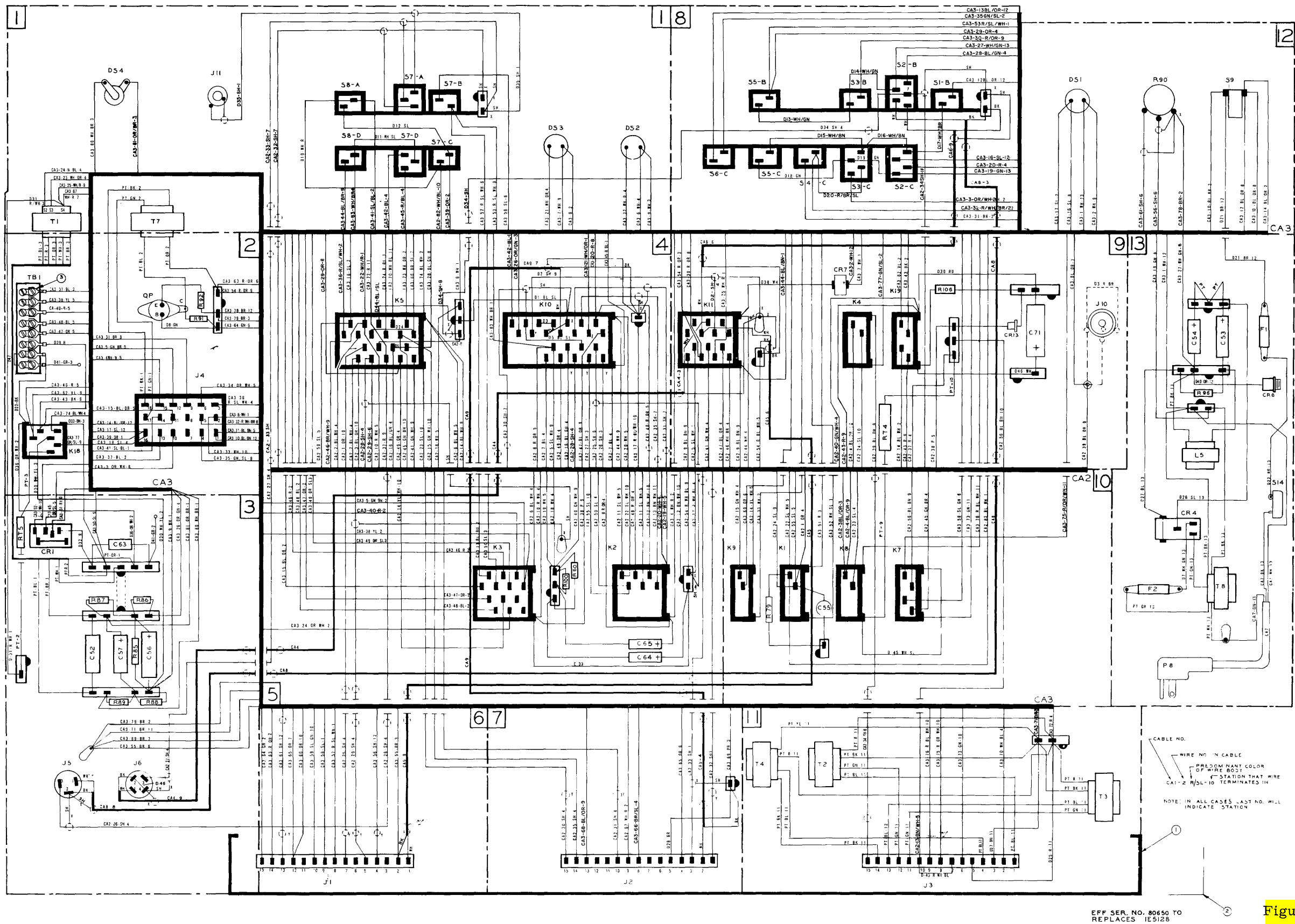
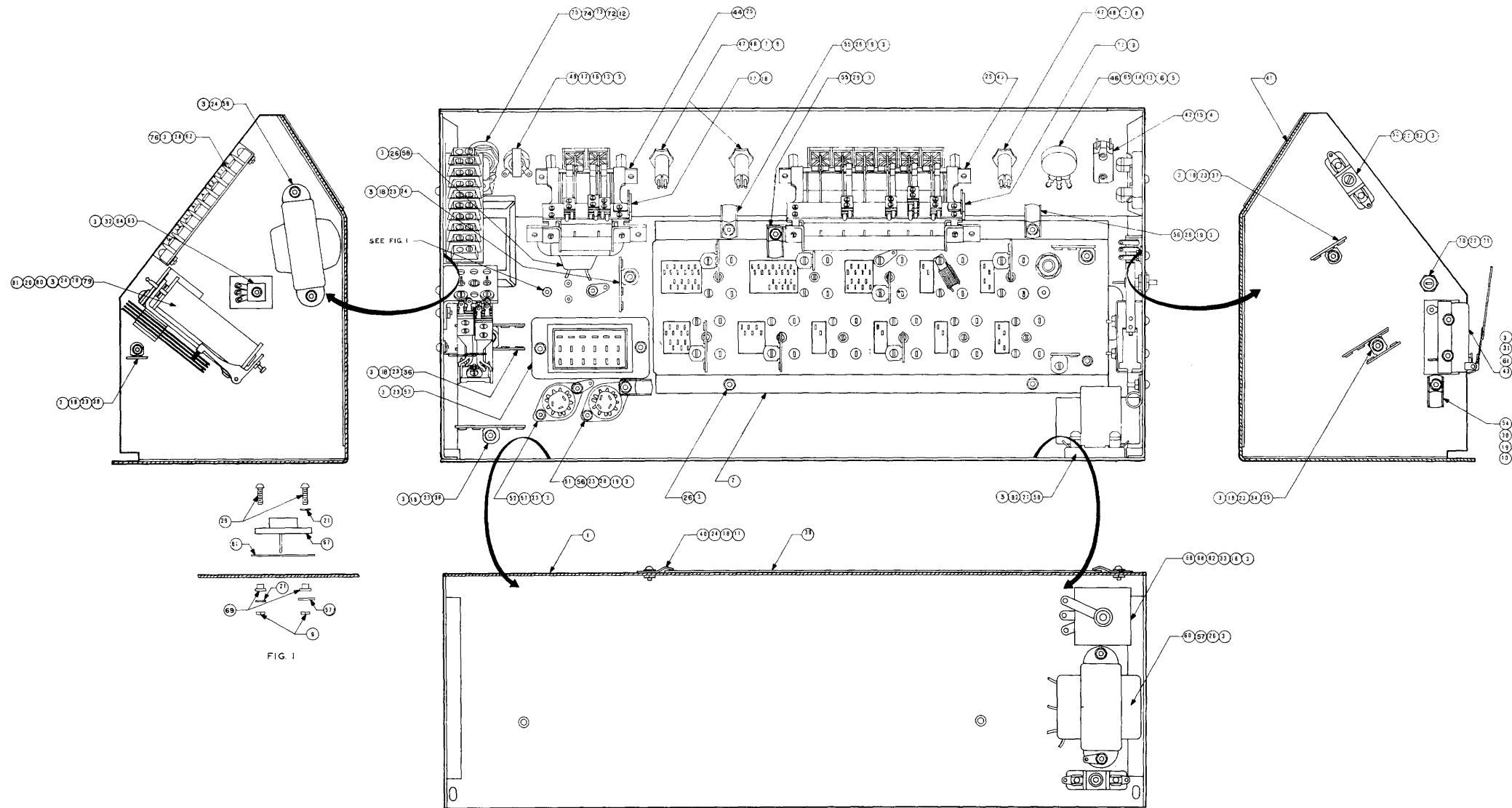


Figure 21. Assembly - Chassis Wiring -
Sheet 1 of 2, WW-5922-1 (Part of
Final Assembly, Figure 1).



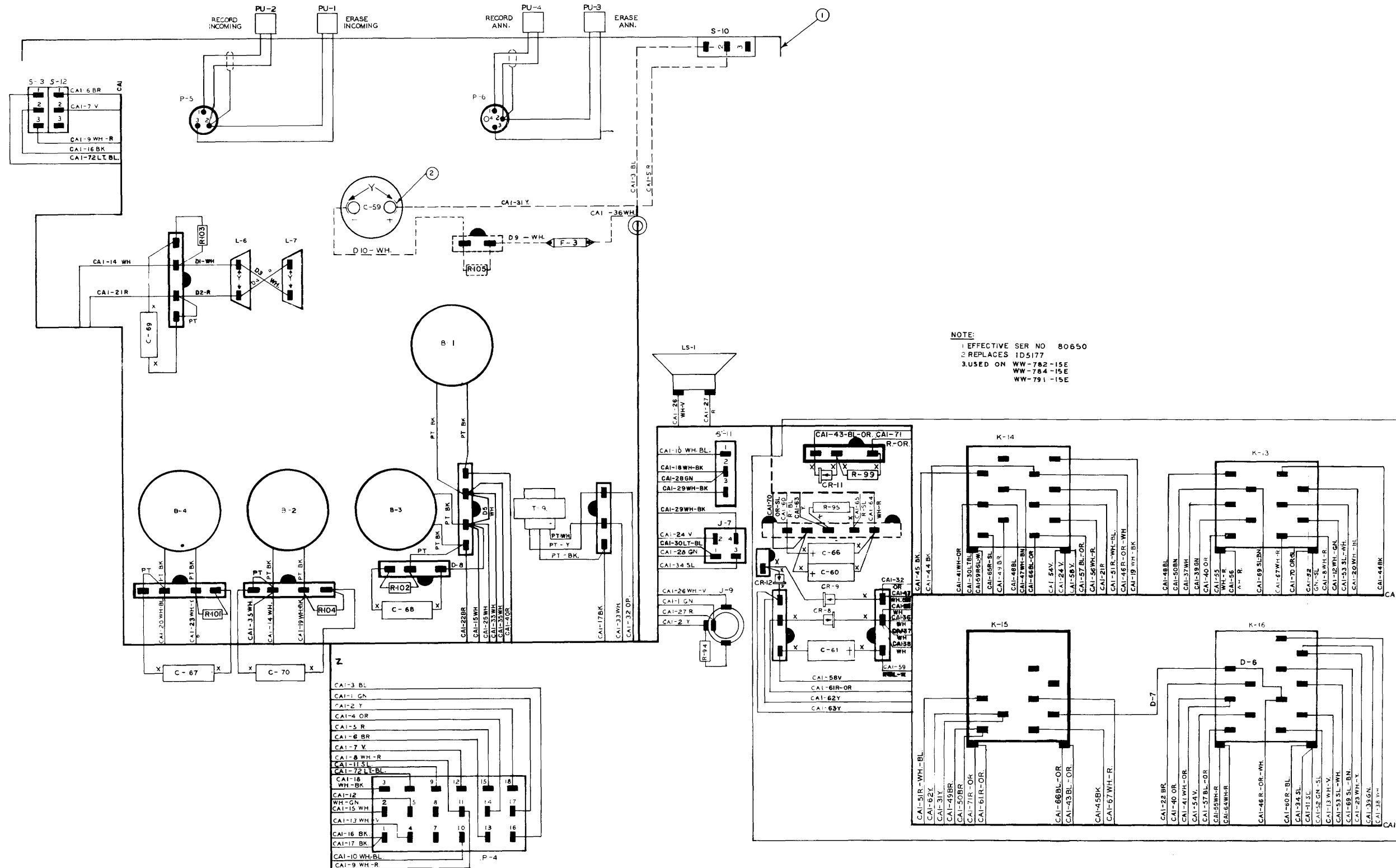
EFFECTIVE SERIAL NUMBER 80650
REPLACES WW-4572-1E

ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-4571-22D	1	CHASSIS, LP-TD-C
2		1	ASS'Y RELAY HOUSING (SEE FIGURE 4)
3	WW-1492-2	33	NUT, 6-32 X 1/4 KEPS
4	WW-1464-2	2	NUT, 15/32 - 32 X 9/16
5	WW-1455-2	2	NUT, 3/8-32 X 1/2, NICKLE PLATED
6	WW-1453-2	1	NUT, 3/8-32 X 9/16
7	WW-1470-2	3	NUT, 3/8-32 X 1/2, CAD, PLATED
8	WW-4337-2	3	NUT, 3/8-32 X 1/2, RING, BK
9	WW-1451-2	2	NUT, 4-32 X 1/2
10	WW-1493-2	1	NUT, 8-32 X 1/4 KEPS
11	WW-3046-2	2	NUT, 6-32 X 5/16 SELF-CLINCHING
12	WW-2922-2	1	NUT, 11/16-27 X 13/16
13	WW-1363-4	2	WASHER, 3/8 I.D., FLAT
14	WW-1356-4	1	WASHER, 3/8 I.D., INT. STAR
15	WW-2862-4	1	WASHER, .468 I.D., FLAT
16	WW-1358-4	1	WASHER, FIBRE-EXTRUDED
17	WW-1357-4	1	WASHER, FIBRE FLAT, 3/8 I.D.

ITEM	PART NO.	QTY.	DESCRIPTION
18	WW-1355-4	11	WASHER, #6, EX. STAR
19	WW-1360-4	4	WASHER, #8, FLAT
20	WW-3894-4	2	WASHER, INSULATOR
21	WW-3392-4	2	WASHER, #4, INT. STAR
22	WW-2063-4	1	WASHER, #10, INT. STAR
23	WW-1406-3	12	SCREW, 6-32 X 1/4, RH
24	WW-1438-3	6	SCREW, 6-32 X 5/16, RH
25	WW-1404-3	4	SCREW, 6-32 X 1/2, FH
26	WW-2187-3	6	SCREW, 6-32 X 3/8 FH
27	WW-3395-3	1	SCREW, 6-32 X 3/8 RH
28	WW-1403-3	3	SCREW, 6-32 X 1/2 RH
29	WW-1402-3	2	SCREW, 4-36 X 3/8 RH
30	WW-1410-3	1	SCREW, 8-32 X 1/2 RH
31	WW-1407-3	2	SCREW, 6-32 X 1 RH
32	WW-1412-3	1	SCREW, 6-32 X 1-3/4 RH
33	WW-3889-3	1	SCREW, 6-32 X 1-1/2 FH
34	WW-1204-26	2	TERMINAL STRIP, AADA, 4-LUG
35	WW-1213-26	1	TERMINAL STRIP, ADA, 3-LUG
36	WW-1205-26	3	TERMINAL STRIP, AADAA, 5-LUG
37	WW-1203-26	1	TERMINAL STRIP, AGA, 3-LUG
38	WW-1211-26	1	TERMINAL STRIP, G, 1-LUG
39	WW-4151-11A	1	COVER, RELAY

ITEM	PART NO.	QTY.	DESCRIPTION
40	WW-4152-7A	2	BRACKET, COVER
41	WW-4186-27C	1	PLATE, FRONT
42	WW-2543-32A	1	SWITCH, RESET - S9
43	WW-1134-32	1	SWITCH, INTERLOCK - S14
44	WW-4616-32C	1	SWITCH, DICTATE - CHECK - S7, S8
45	WW-4565-32C	1	SWITCH, S1, S2, S3, S4, S5, S6
46	WW-4216-14	1	POTENTIOMETER, 10K, 1/2W
47	WW-4218-46	3	LAMP, DS1, DS2, DS3, NE2E, VOLUME R90
48	WW-3782-4	3	WASHER, 3/8 I.D., INT. STAR
49	WW-1560-9	1	JACK, MIC. - J11
50	WW-3407-9A	2	FUSE HOLDER
51	WW-1106-9	1	SOCKET, 4 PRONG AMPH, J6
52	WW-4339-9	1	SOCKET, 3-PRONG AMPH J5
53	WW-4284-9A	1	SOCKET, 18 PIN RECESSED - J4
54	WW-2123-34A	1	CLAMP, PLASTIC 1/4"
55	WW-3399-34A	1	CLAMP, PLASTIC 1/2"
56	WW-4328-34	2	CLAMP, PLASTIC 3/8"
57	WW-1651-24	3	LUG, SOLDER #6
58	WW-4269-20	1	TRANSFORMER, OUTPUT - T7
59	WW-4229-20	1	TRANSFORMER, LINE - T1
60	WW-4230-20	1	TRANSFORMER, POWER - T8
61	WW-2338-53A	1	INSULATOR
62	WW-4221-26	1	TEL. BLOCK, 8 TERMINAL - TB1
63	WW-2061-37	1	SELENIUM RECTIFIER - CR1
64	WW-2442-53A	1	INSULATOR
65	WW-1349-29A	1	KNOB, VOLUME CONTROL
66	WW-4220-37	1	SELENIUM RECTIFIER - CR4
67	WW-4413-37	1	TRANSISTOR, POWER 2N251 - QF
68	WW-4782-35	1	SPACER
69	WW-4341-35	2	BUSHING, INSULATING
70	WW-4569-37A	1	DIODE, ZENER - CR6
71	WW-1469-2	1	NUT, 10-32 X 3/8
72	WW-1169-51	1	LAMP, NE51H - DS-4
73	WW-4288-9	1	PILOT LAMP SOCKET
74	WW-4290-34	1	BUSHING, RETAINER
75	WW-2953-46A	1	JEWEL
76	WW-4272-52A	1	TAPE, MARKING TEL. BLOCK
77	WW-1212-26	2	TERMINAL STRIP, GA, 2 LUG
78	WW-5095-7	1	BRACKET, RELAY
79	WW-5092-49C	1	RELAY, 3-A, K-18
80	WW-5924-3	2	SCREW, 8/32 X 9/32 RHW
81	WW-3893-53A	1	INSULATOR, RELAY
82	WW-1394-4	3	WASHER #8 EX. STAR

Figure 22. Assembly - Chassis, WW-5921-1
(Part of Assembly, Figure 20).



ITEM	PART NO.	QTY.	DESCRIPTION
R101	WW-3282-6	1	47Ω 1/2W RES
R102	WW-3282-6	1	47Ω 1/2W RES
R103	WW-3282-6	1	47Ω 1/2W RES
R104	WW-3282-6	1	47Ω 1/2W RES
C-67	WW-5155-17	1	2MF CAP
C-68	WW-5155-17	1	2MF CAP
C-69	WW-5155-17	1	2MF CAP
C-70	WW-5155-17	1	2MF CAP
R-105	WW-5171-13	1	7.5Ω 5W RES
CR-12	WW-4114-37	1	DIODE PT 5

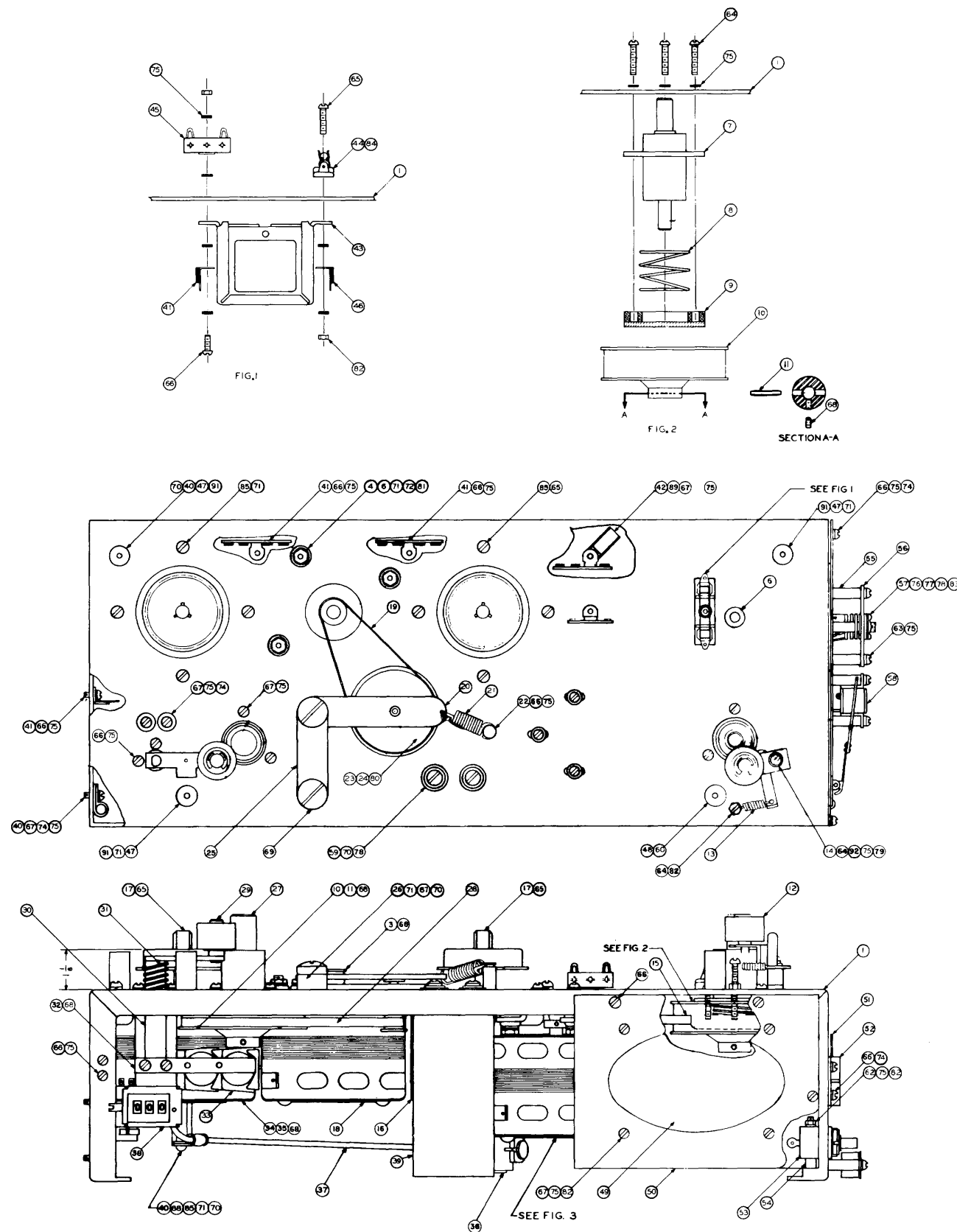
ITEM	PART NO.	QTY.	DESCRIPTION
1		1	ASS'Y TAPE MECHANISM (SEE FIGURE 10)
2	WW-4580-24	2	LUG #10 SPADE
CA1	WW-5928-25	1	HARNESS
P5	WW-4581-1	1	ASS'Y PLUG INCOMING
P6	WW-4582-1	1	ASS'Y PLUG OUTMESSAGE
P4	WW-1655-31	1	PLUG 18 PRONG
CR-8	WW-4114-37	1	DIODE PT 5
CR-9	WW-4114-37	1	DIODE PT 5
CR-11	WW-4114-37	1	DIODE PT 5

ITEM	PART NO.	QTY.	DESCRIP. RESISTOR
R-94	WW-3290-13	1	5Ω 3W
R-95	WW-4588-13	1	450Ω 5W
R-99	WW-1827-6	1	220Ω 1/2W

ITEM	PART NO.	QTY.	DESCRIP. CAPACITOR
C-60	WW-4105-18	1	200MF 100V
C-61	WW-1543-18	1	30MF 150V
C-66	WW-4105-18	1	200MF 100V

ITEM	PART NO.	LGTH.	DESCRIP. WIRE
D1	WW-1263-25	2 1/2	WHITE
D2	WW-1256-25	2 1/2	RED
D3	WW-1263-25	2	WHITE
D4	WW-1256-25	2	RED
D5	WW-1263-25	1 1/2	WHITE
D6	WW-4557-25	1 1/4	BLACK
X	WW-1227-30	AR	SLEEVING
D7	WW-4557-25	1 1/4	BLACK
Y	WW-4756-30		SLEEVING
Z	WW-1226-30		SLEEVING
D8	WW-1263-25	2	WHITE
D9	WW-1263-25	3	WHITE
D10	WW-1263-25	6	WHITE

Figure 23. Assembly - Wiring, Tape Mechanism, WW-5929-1 (Part of Final Assembly, Figure 1).



ITEM	PART NO.	QTY.	DESCRIPTION
1	WW-4369-45D	1	MOTORBOARD
2	WW-3743-44B	1	MOTOR, CAPSTAN
3	WW-3789-38A	2	PULLEY
4	WW-3827-5A	6	EYELET
5	WW-4467-7A	1	BRACKET, MOTOR MTG.
6	WW-3874-5A	7	GROMMET
7	WW-3796-1B	1	ASSEMBLY, CAPSTAN SUPPORT
8	WW-3919-33A	1	SPRING, COMPRESSION
9	WW-3921-1A	1	ASSEMBLY, DRAG
10	WW-3790-38A	2	FLYWHEEL
11	WW-3320-34A	2	ROLLPIN
12		1	ASSEMBLY, PRESSURE ROLLER (SEE FIGURE 14)
13	WW-3231-33A	1	SPRING
14	WW-4547-36A	1	BUSHING, SHAFT
15	WW-3867-38A	1	BELT
16	WW-3745-44B	1	MOTOR, REWIND
17	WW-5146-38	2	REEL PLATFORM
18	WW-3744-44B	1	MOTOR, CAPSTAN
19	WW-3868-38A	1	BELT
20	WW-3786-1A	1	ASSEMBLY, IDLER SUPPORT
21	WW-3816-33A	1	SPRING IDLER
22	WW-3915-7A	1	SUPPORT, IDLER SPRING
** 23	WW-3807-1A	1	ASSEMBLY, IDLER PULLEY
24	WW-1369-4C	1	E RING
25	WW-3918-56A	1	LINK, IDLER
26	WW-3916-35A	1	SPACER
27	WW-3797-1B	1	ASSEMBLY, CAPSTAN SUPPORT
** 28	WW-3869-38A	1	BELT
29		1	ASSEMBLY PRESSURE ROLLER (SEE FIGURE 15)
30	WW-5723-35A	1	BUSHING CLAPPER
31	WW-3852-33A	1	SPRING CLAPPER
32		1	ASSEMBLY CLAPPER (SEE FIGURE 17)
33		1	ASSEMBLY MAGNET (SEE FIGURE 18)
34	WW-3742-44B	1	MOTOR TAKEUP
35	WW-3875-38A	1	GEAR PINION
36	WW-5750-38B	1	GEAR ASSEMBLY
37	WW-5751-36B	1	CABLE FLEXIBLE
38		1	ASSEMBLY TIMER (SEE FIGURE 13)
39	WW-5231-18	1	CAPACITOR, 8000 MFD
40	WW-2123-34A	3	CLAMP CABLE
41	WW-1205-26K	4	TIE STRIP, 5 LUG
42	WW-3399-34A	1	CLAMP CABLE
43	WW-4570-20B	1	TRANSFORMER
44	WW-5172-46	1	FUSE 1/2 AMP SLO-BLO
45	WW-1213-26K	1	TIE STRIP 3 LUG

ITEM	PART NO.	QTY.	DESCRIPTION
46	WW-1207-26K	1	TIE STRIP 5 LUG
47	WW-4466-36A	3	PILLAR
48	WW-3700-36A	1	PILLAR
49	WW-3884-39B	1	SPEAKER
50	WW-4371-28B	1	BAFFLE SPEAKER
51		1	ASSEMBLY MOTOR CONTROL (SEE FIGURE 16)
52	WW-1004-42A	1	HINGE
53	WW-1134-32A	1	MICROSWITCH
54	WW-3890-35A	2	SPACER
55	WW-4377-35A	4	SPACER
56	WW-3888-7A	1	BRACKET JACK
57	WW-1107-9A	1	JACK HEADPHONE
58	WW-4622-9A	1	SOCKET 4 PIN
59	WW-1401-3	2	SCREW 10-32 X 3/8 BHM
60	WW-4994-3	1	SCREW 10-32 X 3/8 FHM
61	WW-1424-3	3	SCREW 8-32 X 3/8 RHM
62	WW-3889-3	2	SCREW 6-32 X 1-1/2 FHM
63	WW-3678-3	4	SCREW 6-32 X 1-1/8 RHM
64	WW-2229-3	2	SCREW 6-32 X 3/4 RHM
65	WW-2079-3	5	SCREW #8 SET
66	WW-3089-3	16	SCREW 6-32 X 1/4 BHM
67	WW-3397-3	11	SCREW 6-32 X 3/8 BHM
68	WW-1432-3	8	SCREW 6-32 X 3/16 SET
69	WW-3917-3	2	SCREW SHOULDER
70	WW-1390-4	7	WASHER #10 FLAT
71	WW-2063-4	19	WASHER #10 INT. STAR
72	WW-1360-4	12	WASHER #8 FLAT
73	WW-1393-4	3	WASHER #8 INT. STAR
74	WW-1353-4	7	WASHER #6 FLAT
75	WW-1371-4	34	WASHER #6 INT. STAR
76	WW-1363-4	1	WASHER 3/8 X 32 FLAT
77	WW-1357-4	1	WASHER FLAT FIBRE
78	WW-1358-4	3	WASHER FIBRE SHOULDER
79	WW-2326-4	1	WASHER FLAT FIBRE
80	WW-1378-4	1	WASHER
81	WW-1469-2	6	NUT HEX 10-32 X 3/8
82	WW-1492-2	9	NUT HEX 6-32 X 1/4
83	WW-1455-2	1	NUT HEX 3/8 X 32
84	WW-3407-9B	1	FUSE HOLDER
85	WW-5023-3	9	SCREW 10-32 X 3/8 RHM
86	WW-1362-4	1	WASHER #6 FLAT
87	WW-5024-3	1	SCREW 10-32 X 1/4 BHM
88	WW-4802-36	1	PILLAR
89	WW-1204-26	1	TIE STRIP 4 LUG
90	WW-5089-35	2	SPACER
91	WW-1408-3	3	SCREW 10-32 X 1/2

NOTES:

1. USED ON WW 4584 1D WW 5266 1D
 2. EFFECTIVE SERIAL NO 80650
 3. REPLACES WW 5178 1E
- ** 4. USE WW 3808 1A and WW 3870 38A for
2 HOUR OPERATION.

Figure 24. Assembly - Tape Transport, WW-5951-1E (Part of Assembly, Figure 10).