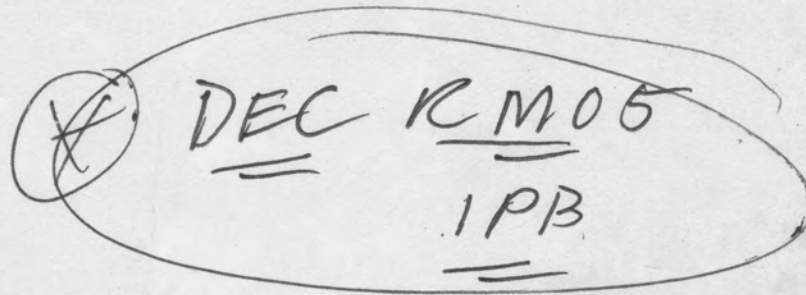


BK7B1E/F DISK DRIVE

ILLUSTRATED PARTS BREAKDOWN



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6011/42-Drives

REVISION	DESCRIPTION
01 (08-10-79)	Preliminary manual released.
A (02-12-80)	Manual released.
B (05-29-80)	Manual updated to include Engineering Change Order 57302. Miscellaneous technical and editorial changes.
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D (03-26-81)	Manual updated to include Engineering Change Orders: 57453, 57521, 57535A, 57424, 57353, 57451A, and 57381E. Additional technical and editorial changes. This edition obsoletes all previous editions.
E (06-19-81)	Manual updated to include Engineering Change Orders 57578, 57551, 57582-A, 57465-B and 57563. Additional Technical and Editorial changes.
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G (12-18-81)	Manual updated to include Engineering Change Order 13047. Additional Technical and Editorial changes.

REVISION LETTERS I, O, Q
AND X ARE NOT USED.

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7801 Computer Avenue
Minneapolis, Mn 55435

or use Comment Sheet in the back
of this manual.

MANUAL TO EQUIPMENT LEVEL CORRELATION

This manual reflects the equipment configurations listed below.

EXPLANATION: Locate the equipment type and series code number, as shown on the equipment FCO log, in the list below. Immediately to the right of the series code number is an FCO number. If that number and all of the numbers underneath it match all of the numbers on the equipment FCO log, then this manual accurately reflects the equipment.

This correlation sheet also applies to the following related manuals:

Pub No. 83323800 Rev. C

EQUIPMENT TYPE	SERIES CODE	WITH FCOs	COMMENTS
BK7B1-E,F	18	None	
BK7B1-E,F	19	57224	
BK7B1-E,F	20	None	
BK7B1-E,F	21	57302	
BK7B1-E,F	22	None	
BK7B1-E,F	23	None	
BK7B1-E	24	None	
BK7B1-F	24	57477	
BK7B1-E,F	24	57605	
BK7B1-E,F	25	57629	
BK7B1-E,F	26	None	

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<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
		3-12	G
		3-13	D
		3-14	E
		3-15	F
		Blank	-
		3-17	E
		3-18	E
		3-18.1	E
		Blank	-
		3-19	G
		3-20	G
		3-21	G
		Blank	-
		3-23	G
		3-24	E
		3-25	F
		3-26	F
		3-26.1	F
		3-26.2	F
		3-26.3	F
		Blank	-
		3-27	F
		3-28	F
		3-29	G
		3-30	E
		3-31	G
		3-32	D
		3-33	D
		3-34	D
		3-35	D
		3-36	D
		3-37	D
		3-38	D
		3-39	D
		Blank	-
		3-41	D
		3-42	G
S-3 Div	-		
Blank	-		
3-1	D		
Blank	-		
S-3A Div	-		
Blank	-		
3-3	D		
3-4	D		
3-5	D		
3-6	E		
3-7	E		
3-8	D		
3-9	D		
3-10	D		
3-11	D		

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<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
3-43	G	3-86	G
3-44	F	3-87	G
3-45	D	Blank	-
3-46	G	3-89	G
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3-49	G	3-92	D
3-50	G	3-93	D
3-51	G	3-94	F
3-52	D	3-95	F
3-53	E	3-96	G
3-54	G	3-97	G
3-55	F	3-98	D
Blank	-	3-99	D
3-57	G	Blank	-
Blank	-	S-3B Div	-
3-59	D	Blank	-
Blank	-	3-101	D
3-61	G	3-102	D
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3-66	D	3-107	D
3-67	D	3-108	D
3-68	D	3-109	D
3-69	D	3-110	D
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3-74	G	3-115	G
3-75	G	3-116	F
3-76	F	3-117	G
3-77	G	Blank	-
3-78	D	Cmt Sht	-
3-79	D	Rtn Env	-
3-80	F	Blank	-
3-81	G	Cover	-
Blank	-		
3-84	F		
3-85	F		
3-83	F		

SECTION 3

PARTS DATA

ABBREVIATIONS

ABR	Absolute Reserve	D/A	Digital to Analog
ABV	Above	DCDR	Decoder
ADDR	Address	DIFF	Difference
ADRS	Address	DIR	Direction
AGC	Automatic Gain Control	DLY	Delay
AM	Address Mark	DRV	Drive
AMPL	Amplifier	DRVR	Driver
AMPTD	Amplitude	DSBL	Disable
BLK	Black	ECL	Emitter Coupled Logic
BLW	Below	ECO	Engineering Change Order
CAR	Cylinder Address Register	EMER	Emergency
CH	Channel	EN	Enable
CHAN	Channel	EOT	End of Travel
CNTLGL	Centrifugal	EQUIV	Equivalent
CNTR	Counter	FCO	Field Change Order
COMP	Compensation	FCTN	Function
CONFIG	Configuration	FF	Flip Flop
CONTD	Continued	FIG	Figure
CR REF	Cross Reference	FLT	Fault
CYL	Cylinder	FREQ	Frequency
DES	Desired	FTU	Field Test Unit

ABBREVIATIONS (Contd)

FWD	Forward	PC PT	Piece Part
GEN	Generator	PLO	Phase Lock Oscillator
GND	Ground	PN	Part Number
HD	Head	POS	Positive
I/O	Input-Output	PWR	Power
INTLK	Interlock	RCVRS	Receivers
INTGTR	Integrator	RD	Read
LD	Load	RDY	Ready
MAINT	Maintenance	REC	Receiver
MAX	Maximum	REF	Reference
MB	Megabyte	REG	Register
MFM	Modified Frequency Modulation	REV	Reverse
MK	Mark	RGTR	Register
MULT	Multiple	TRM	Reserve Timer
NC	No Connection	RTZ	Return to Zero
NEG	Negative	S&IOBC	Sector and Index on B Cable
NOM	Nominal	S/C	Series Code
NON-VDE	(See Preface)	SEC	Second
NORM	Normal	SEL	Select
NRM	Normal	SEQ	Sequence
NRZ	Nonreturn to Zero	SER	Servo

ABBREVIATIONS (Contd)

SH	Sheet	VDE	(See Preface)
SOL	Solenoid	VCO	Voltage Controlled Oscillator
SR	Servo	W+R	Write or Read
SW	Switch	W·R	Write and Read
T	Track	W/	With
TBS	To Be Supplied	W/O	Without
TLA	Top Level Assembly	WRT	Write
TP	Test Point	WT	White
TRK	Track	XDUCER	Transducer
TTL	Transistor Transistor Logic	XMTR	Transmitter
UNREG	Unregulated		

INTRODUCTION

This section provides an Illustrated Parts Breakdown and a Spare Parts List for all the storage module drives (SMDs) listed in the preface of this manual.

Information in this section is divided into two major categories as follows:

Illustrated Parts Breakdown - This breakdown provides part number information for all field replaceable items.

Spare Parts List - This is a list of recommended spare parts.

NOTE

Parts listed in the illustrated parts breakdown, but not in the spare parts list, may be long lead time items subject to significant delays.

GENERAL

The Illustrated Parts Breakdown provides the information needed to order field replaceable parts. This information is presented in assembly illustrations and parts lists.

The symbols used in this section are explained in table 3-1. Refer to the front of this manual for a complete list of abbreviations.

The illustrated parts breakdown is structured as follows. Each major assembly is shown in an exploded view and assigned a figure number. More than one illustration per figure number may be required for a complex assembly. In this case, the illustrations are titled figure 3-1 (sheet 1); figure 3-1 (sheet 2), etc. The parts shown on the illustrations are numbered. A parts list for each illustration begins on the page facing the illustration. The numbers on the figure correspond to the index numbers on the associated part list. In some cases, the parts list will have more than one page for the corresponding sheet of a figure.

The Illustrated Parts Breakdown is divided into four columns:

Index Number Column - The numbers given in this column correspond to the numbers shown on the illustration. When more than one entry is given for a particular index number, the use of each part is defined in the Notes column. Items may be listed without index numbers, and are mentioned for reference only. These items do not appear on the illustration.

Part Number Column - This column provides the eight digit number by which a part may be ordered. In some cases the last two digits (referred to as tab numbers) are replaced by a symbol. Table 3-1 explains the use of those symbols.

Description Column - This column gives the name and a brief description of each part and assembly. The relationship of parts and assemblies is shown within the column by means of indentation. Each indented item is part of the previously listed item as a lesser indentation.

Notes Column - This column defines any multiple part number entries for a single index number. Multiple entries may be necessary to identify differences such as machine configuration (for example, whether the part is for a 50 Hz or 60 Hz unit) or

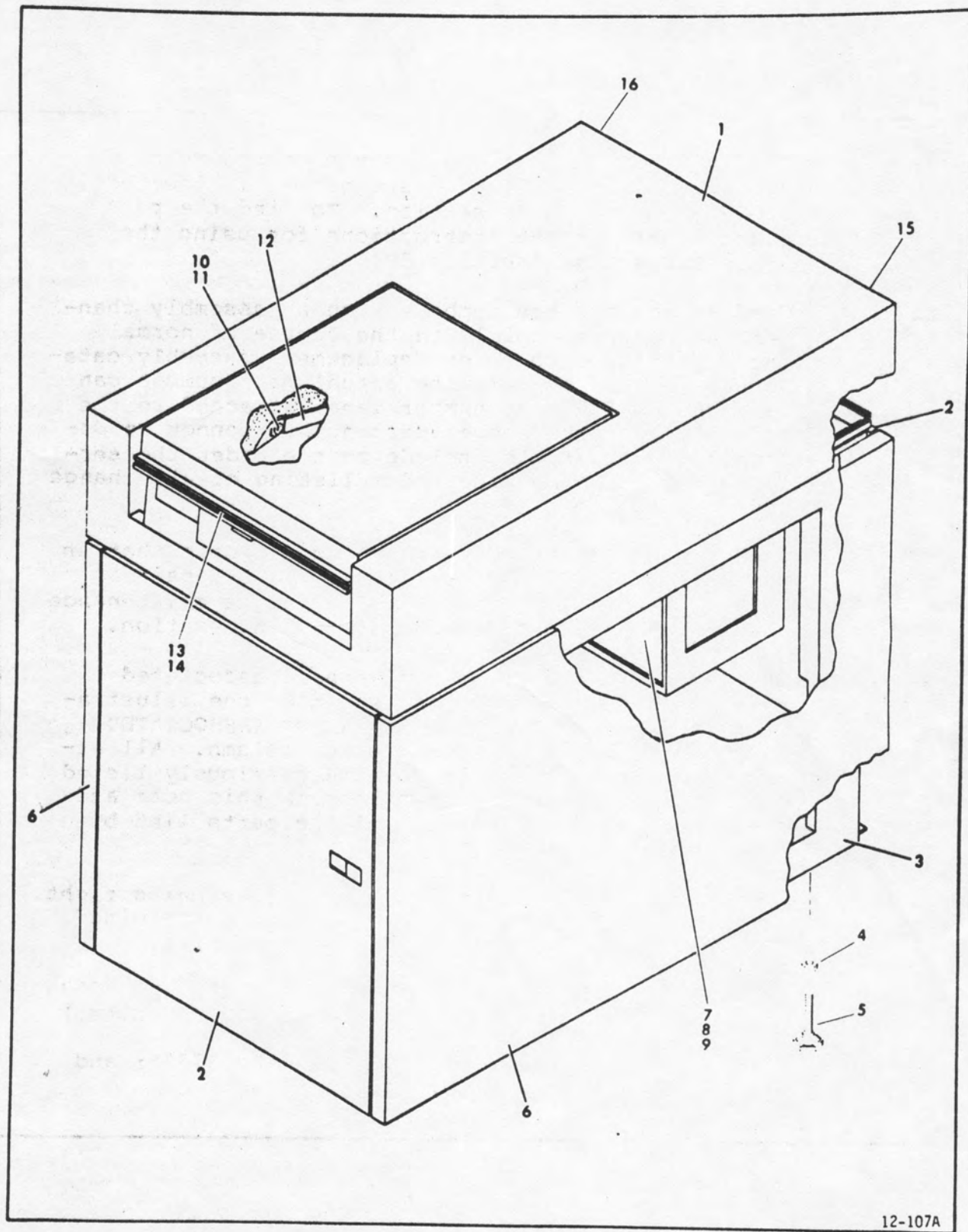
to track history (for example, the part issued only on a series code 18 unit with Engineering Change Order (ECO) 12345 installed. Information that is unique to one particular equipment or application will also be noted in this column.

NOTE

Since these machines were first built in Series Code 18, references to earlier Series Codes (for example S/C 01-17) will not appear in this manual.

TABLE 3-1. SYMBOLOGY

##	Used to indicate that the item is a recommended spare part, and that the part number is located in the Spare Parts List section. To find the part number refer to the instructions for using the Spare Parts List (section 3B).
XX	Used to replace tab numbers when an assembly changes tab numbers rapidly in the course of normal factory build. To order replacement assembly catalogued in this manner, the actual part number can be found on the part number label attached to the assembly. If the actual part number cannot be determined, be sure to include on the order the series code of the machine and a listing of all change orders installed.
NFR	Used in the part number column to indicate that an assembly is not field replaceable. If repair of the NFR item is necessary, refer to the maintenance section of this manual for further information.
----*----	Used when the attaching hardware or associated parts for an item cannot be shown on the illustration, the note (ATTACHING PARTS) or (ASSOCIATED PARTS) appears in the Description column. All attaching/associated parts for the previously listed part or assembly are listed beneath this note and are separated from the rest of the parts list by this symbol.
	When necessary, items are identified as being right side or left side. Right and left are determined by facing the front (pack end) of the drive.
NON-VDE	Used S/C 18-23 without ECOs 57453, 57521, and 57535 50 Hz Only. (This does not apply to 60 Hz units.)
VDE-	Used S/C 23 with ECOs 57453, 57521 and 57535; and all S/C 24 & Above, 50 Hz Only



12-107A

Figure 3-1. Final Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
-------------	------------	------------------	------

3-1	774560XX	FINAL ASSEMBLY	
1		TOP COVER ASSEMBLY (See Figure 3-3) (ATTACHING PARTS)	
	93741292	SCREW, Flat Head Machine, 10-24 x 0.500	
	75173305	PLATE, Nut	
		- - - * - - -	
2		DOOR ASSEMBLY (See Figure 3-4 (ATTACHING PARTS)	
	70948500	PIN, Hinge	
		- - - * - - -	
3		FINAL FRAME ASSEMBLY (See Figure 3-5)	
4	93006035	NUT, Jam Hex, #1/2-13	
5	93697014	LEVELER	
6		SIDE PANEL ASSEMBLY (See Figure 3-2)	
7	75177200	COVER, Logic Frame	
8	94317703	FASTENER, Wing	
	943724XX	KEY, Programmable Insert (Tabs 00-15)	

Packed separately and shipped with unit. Key number corresponds to part number tab.

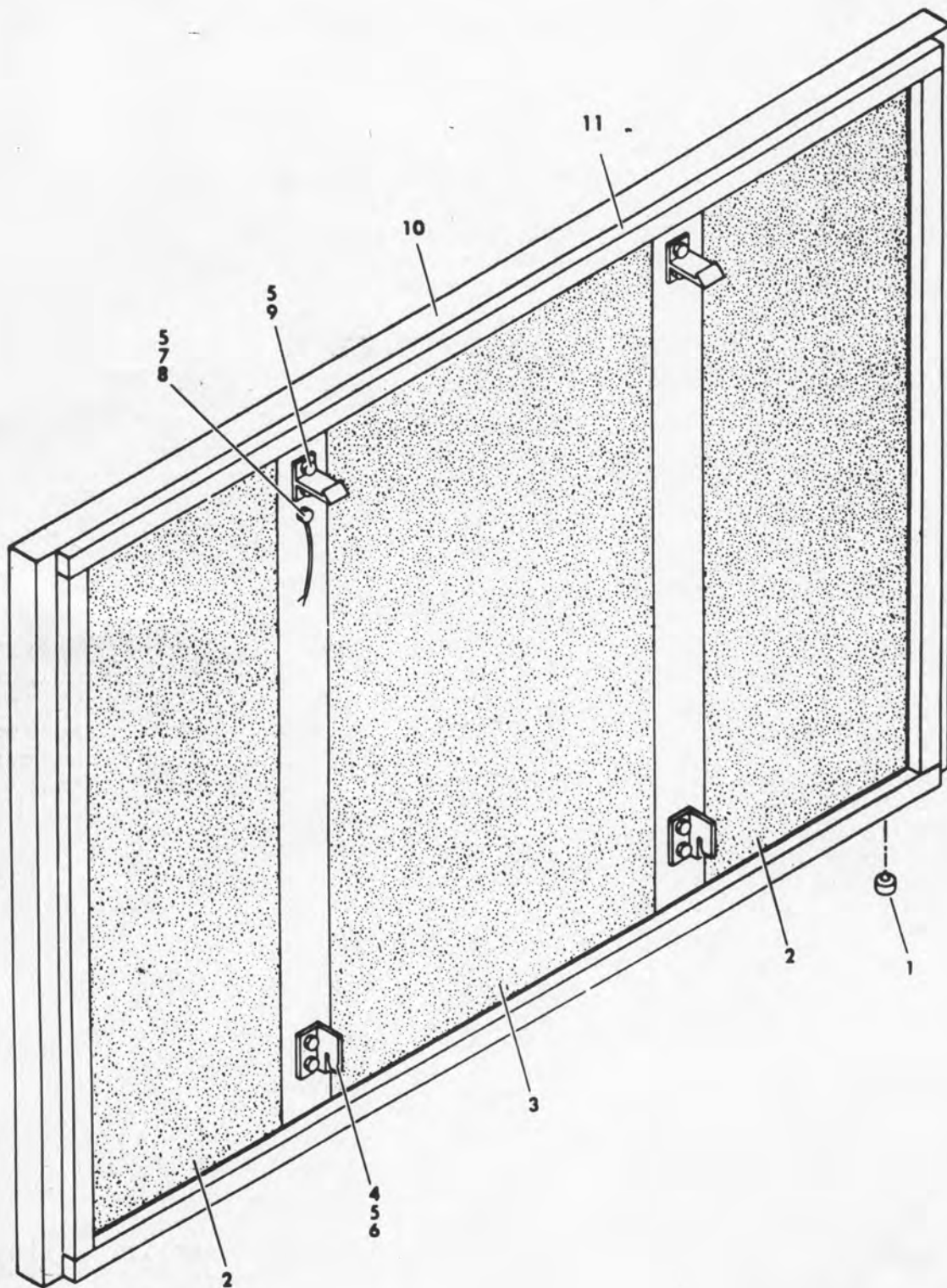
9	94317900	RETAINER, Split Ring	
10	94047074	WASHER, Special	
11	92033069	RING, Retaining	
12	77454200	BAR, Support	

(FOR INFORMATION ON SHIPPING HARDWARE, SEE SECTION 1. INSTALLATION AND CHECKOUT).

13	77462900	HANDLE, Pack Access	
14	92097032	SCREW, Socket Head Cap, 6-32 x 1/4	
15	72874190	BOOKLET, Information	

60 Hz units only S/C 25 & Above and earlier units w/ 57563 Only
S/C 25 & Above and earlier units w/ 57563 Only

16	92917701	LABEL, Equipment	
----	----------	------------------	--



12-200A

Figure 3-2. Side Panel Assembly

INDEX NO.	PART NO	PART DESCRIPTION	NOTE
3-2	77446628	SIDE PANEL ASSEMBLY	
1	92633021	BUMPER, Grommet Type	
2	77446806	PANEL, Acoustical Foam	
3	77446805	PANEL, Acoustical Foam	
4	75194501	BRACKET, Support	
5	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375	
6	10125607	WASHER, Flat, #10	
7	94281432	CABLE, Ground	
8	09040204	WASHER, Lock Dished Type	
9	77441800	CATCH, Side Panel	
10	77442605	PANEL, Side	
11	94001034	TAPE, Foam	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-3	77446431	TOP COVER ASSEMBLY	S/C 23 W/O 57353 & Below
3-3	77446441	TOP COVER ASSEMBLY	S/C 23 W/ 57353 & Above
1	77446810	PANEL, Acoustical Foam	
2	47293509	COVER, Top	
3	76533400	HINGE, Right Top Cover	
4	94281405	CABLE, Ground	
		(ATTACHING PARTS)	
	93592234	SCREW, Self-Tapping Hex Head, 10-24 x 0.250	
	09040204	WASHER, Lock Dished Type - - - * - - -	
5	76533300	PLATE, Wear	
6	10125711	SCREW, Cross Recessed Flat Head, 6-32 x 0.188	
7	93187314	SCREW, Button Head	
8	76533401	HINGE, Left Top Cover	
9	93564028	WASHER, Nylon	
10	76372900	SHAFT, Hinge Bearing	
11	76533100	BASE, Top Cover Hinge	
12	77446809	PANEL, Acoustical Foam	
13	77454300	PIVOT, Support Bar	
14	92033069	RING, Retaining	
15	10127111	SCREW, Phillips Pan Head Machine, 6-32 x 1/4	S/C 23 W/ 57353 & Above
16	10126103	WASHER, Internal Tooth Lock, #6	S/C 23 W/ 57353 & Above
17	73073200	LATCH, Keeper	S/C 23 W/ 57353 & Above

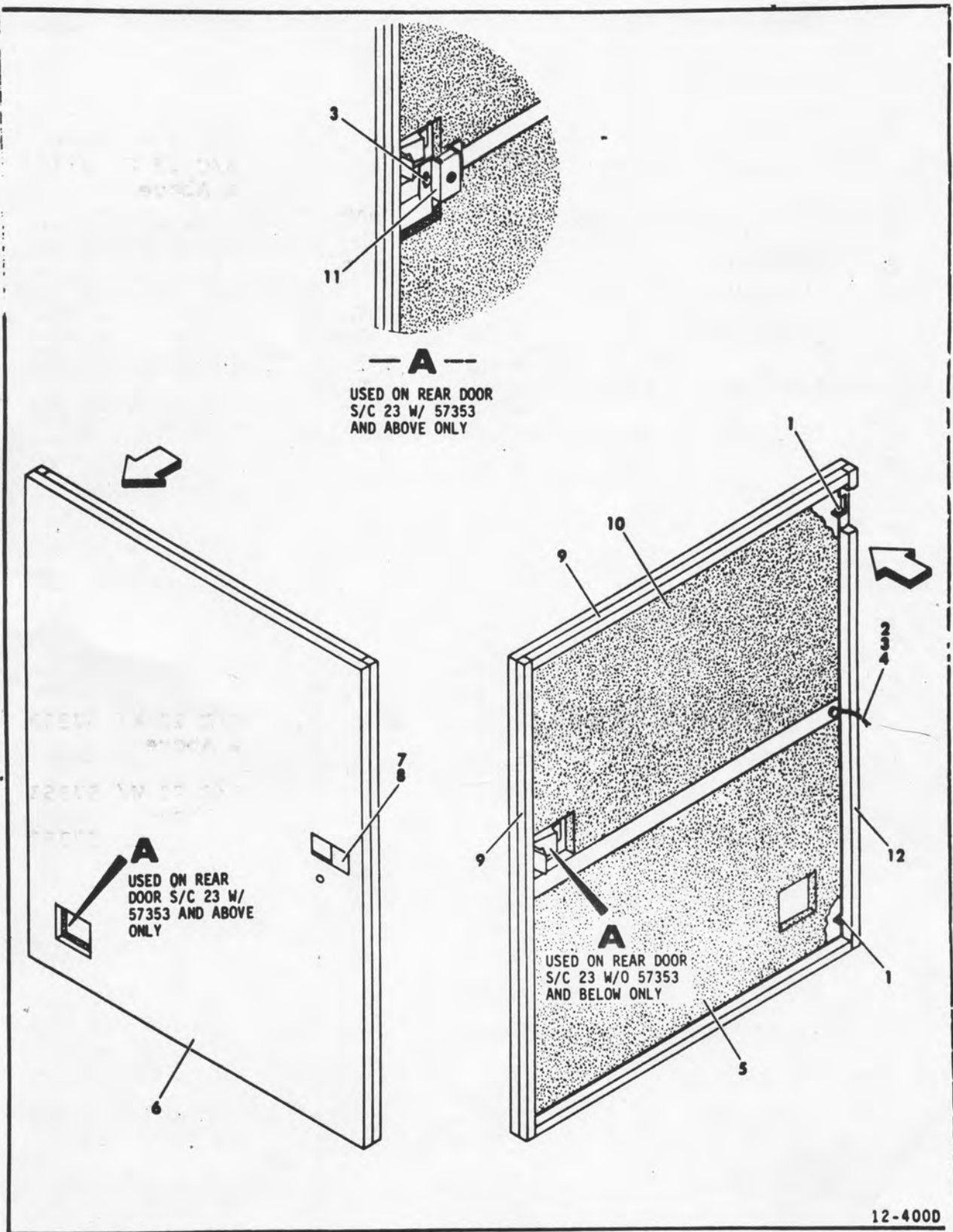


Figure 3-4. Door Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-4	77446738	DOOR ASSEMBLY	Front & Rear, S/C 22 W/O 57328 & Below
3-4	77446752	DOOR ASSEMBLY	Front, S/C 22 W/ 57328 & Above, Rear, S/C 22 W/ 57328 thru S/C 23 W/O 57353
3-4	77446754	DOOR ASSEMBLY	Rear, S/C 23 W/57353 & Above
1	92373003	NYLINER, Snap-In	Used on all Front Doors, Used on Rear Doors S/C 23 W/O 57353 & Below
2	94281405	CABLE, Ground	
3	93592234	SCREW, Self-Tapping Hex Head, 10-24 x 1/4	
3	93592428	SCREW, Hex Washer Head, Self-Tapping 10-32 x 3/8	Rear, S/C 23 W/ 57353 & Above
4	09040204	WASHER, Lock Dished Type	Used on all Front Doors, Used on Rear Doors S/C 23 W/O 57353 & Below
5	77446807	PANEL, Acoustical Foam	
5	77446816	PANEL, Acoustical Foam	
6	77442708	DOOR	Rear, S/C 23 W/ 57353 & Above
6	77442707	DOOR	Front & Rear S/C 22 W/O 57328 & Below
6	73030003	DOOR	Front S/C 22 W/ 57328 & Above Rear, S/C 22 W/ 57328 thru S/C 23 W/O 57353
7	94224907	SPACER, Slam Latch	Rear, S/C 23 W/ 57353 & Above
8	94221400	LATCH, Flush	Used on Rear Door, S/C 23 W/ 57353 & Above Only
9	94001004	TAPE, Foam	
10	77446808	PANEL, Acoustical Foam	
11	92008601	LATCH	
12	94001002	TAPE, Foam	

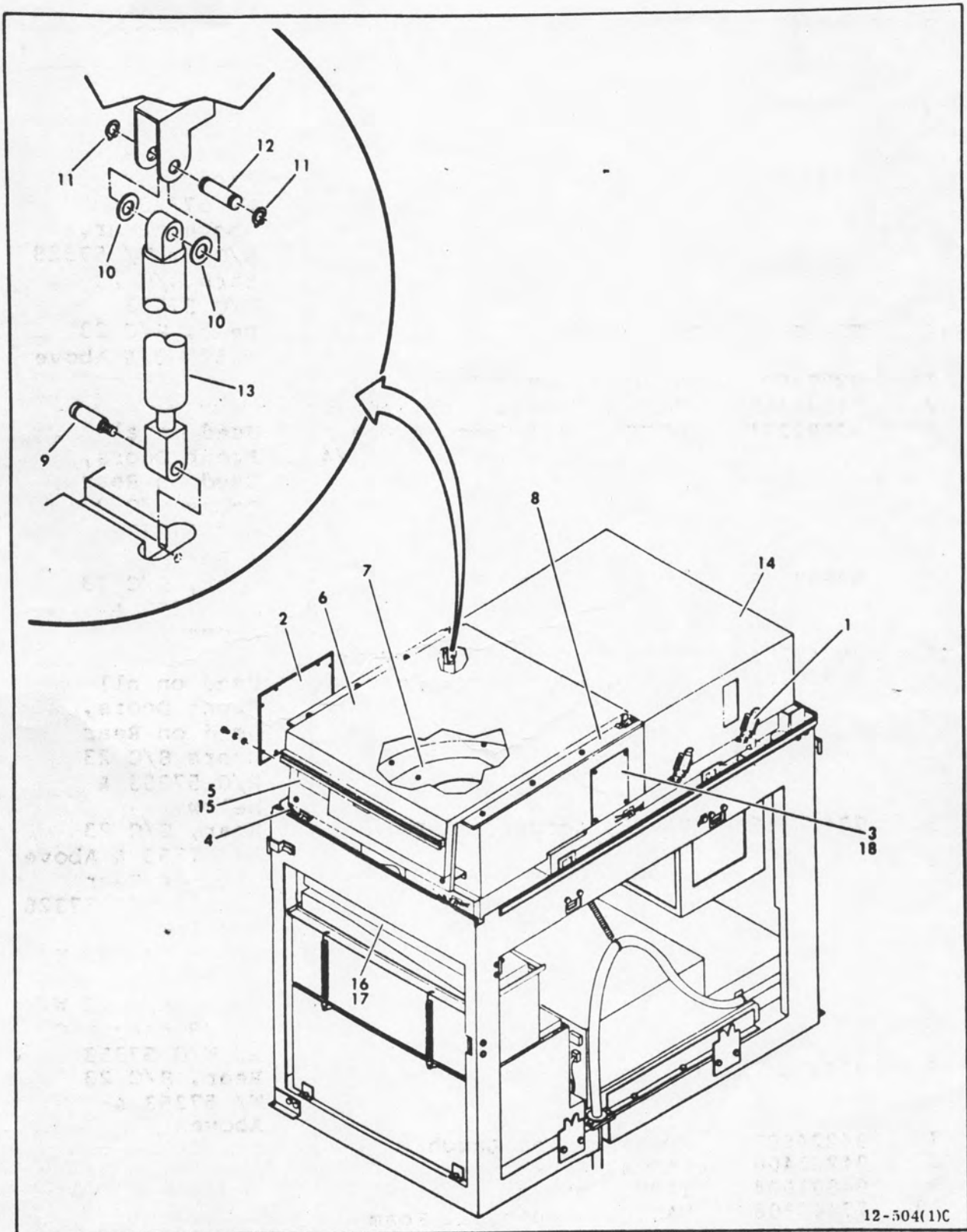


Figure 3-5. Final Frame Assembly (Sheet 1 of 3)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-5	774580XX	FINAL FRAME ASSEMBLY (Sheet 1 of 3)	
1	94356902	CATCH, Compression Spring (ATTACHING PARTS)	
	10127111	SCREW, Pan Head Machine, 6-32 x 0.250 - - - * - - -	
2	77456300	COVER, Shroud Side (ATTACHING PARTS)	
	94001100	TAPE, Foam	
	10127112	SCREW, Pan Head Machine, 6-32 x 0.313	
	10125605	WASHER, Flat, #6	
	10125803	WASHER, Spring Lock, #6 - - - * - - -	
3	77456200	WINDOW, Shroud (ATTACHING PARTS)	
	10127114	SCREW, Pan Head Machine, 6-32 x 0.500	
	10125605	WASHER, Flat, #6	
	10125803	WASHER, Spring Lock, #6 - - - * - - -	
4	77448200	CONTROL PANEL HARNESS ASSEMBLY (A2PA80 to A4P201)	All 60 Hz units, 50 Hz units, S/C 26 & Below w/o 57579-A
		(ASSOCIATED PARTS)	
	94261810	BODY, Connector	
	94245602	CONTACT, Crimp - - - * - - -	
4	77448202	CONTROL PANEL HARNESS ASSEMBLY (A2PA80 to A4P201)	50 Hz units only, S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A
		(ASSOCIATED PARTS)	
	5643250	RECEPTACLE, .187 Flag - - - * - - -	
		CONTROL PANEL SWITCH ASSEMBLY (See Figure 3-9)	
6		PACK ACCESS COVER ASSEMBLY (See Figure 3-8)	
7	76041100	COVER, Parking Brake	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
-------------	------------	------------------	------

3-5

FINAL FRAME ASSEMBLY

(Sheet 1 Contd)

(ATTACHING PARTS)

10127112	SCREW, Pan Head Machine, 6-32 x 0.313
10125803	WASHER, Spring Lock, #6
10125605	WASHER, Flat, #6

- - - * - - -

8

SHROUD ASSEMBLY (See
Figure 3-6)

- - - * - - -

9	73229005	STUD
10	93564002	WASHER, Nylon
11	92033221	RING, Retaining
12	77442800	PIN, Cover Pivot
13	94354904	SPRING, Gas
14	77446300	DECK COVER ASSEMBLY
15	75163500	TAPE, Insulation
16	93592738	SCREW, Hex Washer Head Self-Tapping, 10-24 x 3/8
17	73030800	SHIELD, Safety
18	76579108	GASKET, Air Seal

S/C 22 & Above
Only
S/C 23 W/ 57353
& Above Only
S/C 23 W/ 57353
& Above Only
S/C 24 & Above
Only

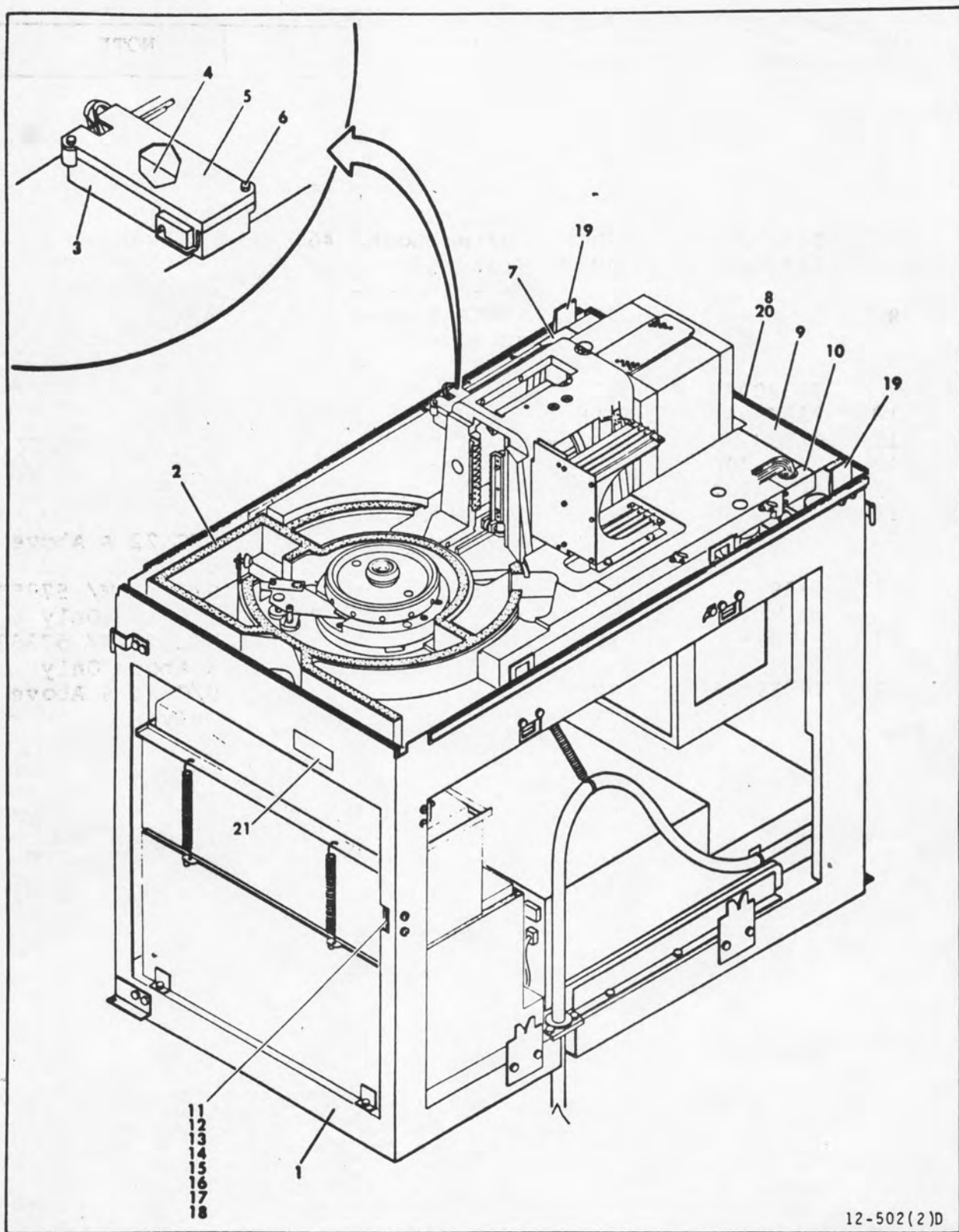


Figure 3-5. Final Frame Assembly (Sheet 2)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-5		FINAL FRAME ASSEMBLY (Sheet 2)	
1		FRAME AND DECK ASSEMBLY (See Figure 3-11)	
2	94001100	TAPE, Foam	
3	73479800	HOUSING, Preamplifier	
4	##	ZQN COMPONENT ASSEMBLY,	
5	73479900	COVER, Preamplifier	
6	93592484	SCREW, Self-Tapping, Hex Head, 4-40 x 5/16	
7	72826001	BLOCK, Harness Clamp (ATTACHING PARTS)	
	17901508	SCREW, Thread Roll Phillips, 6-32 x 0.250	
	72825900	CLAMP, Deck Harness - - - * - - -	
8	77446200	BRACKET, Seal	S/C 23 W/O 57353 & Below
8	47294300	BRACKET, Seal	S/C 23 W/ 57353 & Above
		(ATTACHING PARTS)	
	93592158	SCREW, Self-Tapping Hex Washer Head, 6-32 x 1/4 - - - * - - -	
9	77444800	PANEL, Rear Deck Seal	
10	75203500	BLOCK, Harness Clamp	
11	77455000	LATCH, Door Front	
12	77455100	LATCH, Door Rear	
13	10127112	SCREW, Pan Head Machine, 6-32 x 0.313	
14	10125605	WASHER, Flat #6	
15	10126403	WASHER, External Tooth, #10	
16	10125107	NUT, Hex, #10-24	
17	10127132	SCREW, Pan Head Machine, 10-24 x 0.500	
18	10125803	WASHER, Spring Lock, #6 (ATTACHING PARTS)	
	17901508	SCREW, Thread Roll Phillips, 6-32 x 0.250	
	72825900	CLAMP, Deck Harness - - - * - - -	
19	77454400	GUIDE, Top Cover (ATTACHING PARTS)	
	92615003	WASHER, Fibre Shoulder	
	75173312	PLATE, Nut	
	92748244	SCREW, Pan Head Machine, 10-24 x 0.750 - - - * - - -	
20	94193202	CHANNEL, Rubber	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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3-5

FINAL FRAME ASSEMBLY
(Sheet 2 Cont'd)

21 92917701

LABEL, Equipment

S/C 25 & Above
and earlier
units w/ 57563
Only

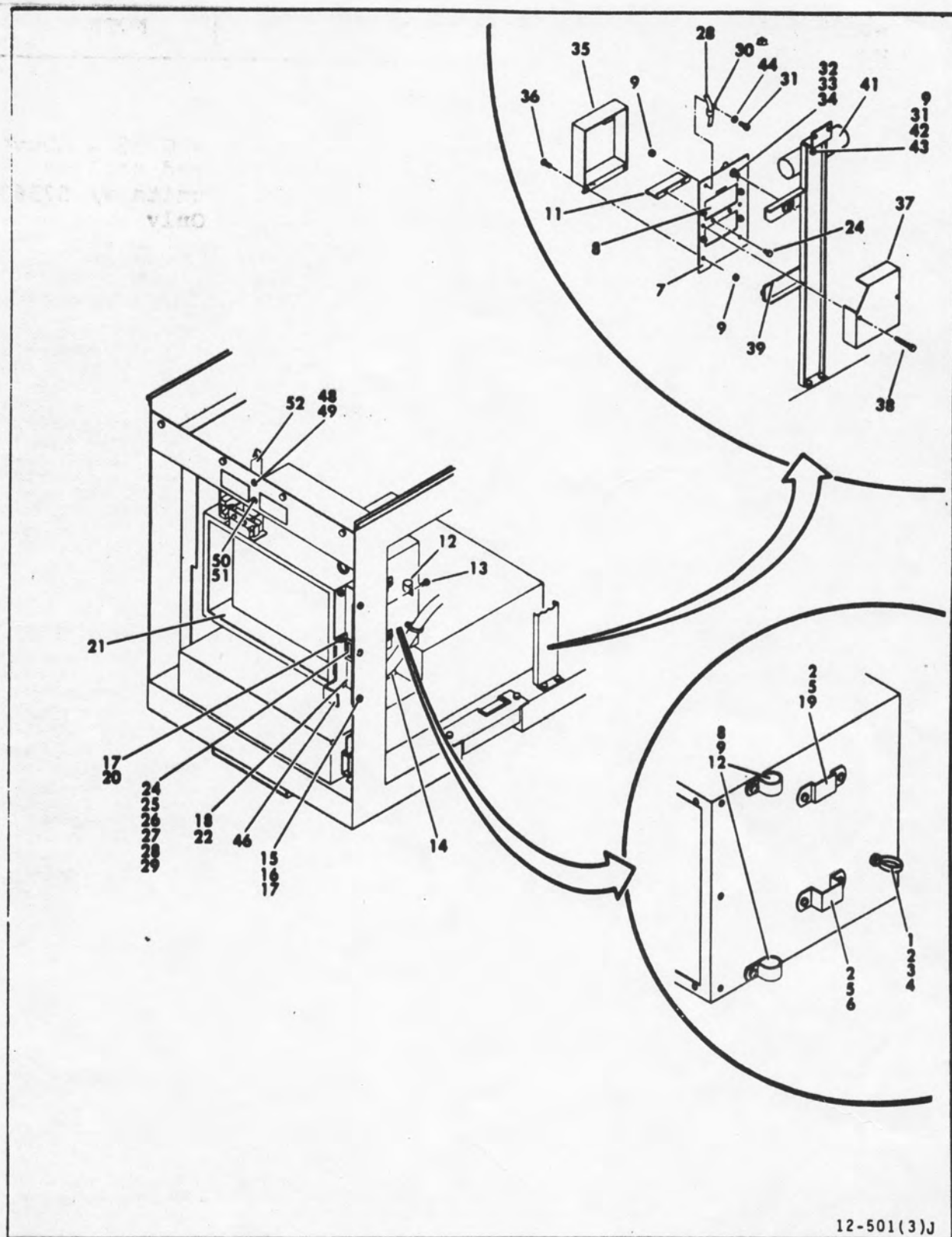


Figure 3-5. Final Frame Assembly (Sheet 3)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
-------------	------------	------------------	------

3-5

FINAL FRAME ASSEMBLY

(Sheet 3)

1	94277406	STRAP, Cable Tie
2	10126401	WASHER, External Tooth, Lock #6
3	10125605	WASHER, Flat, #6
4	10127114	SCREW, Pan Head Machine, 6-32 x 0.500
5	93660043	SCREW, Pan Head Machine, 6-32 x 0.375
6	83278001	STRAP, Large Cable
7	77457200	PANEL, I/O
		(ATTACHING PARTS)
	10127113	SCREW, Pan Head Machine, 6-32 x 0.375
	10125605	WASHER, Flat, #6
	10125803	WASHER, Spring Lock, #6
	10125105	NUT, Hex, #6-32
		- - - * - - -
8	75841700	AYEV COMPONENT ASSEMBLY
9	53777903	NUT, Lock, Captivated, #8
10		NOT USED
11	77457400	SHIELD, Terminator
12	92602011	CLAMP, Nylon Cable
13	93592240	SCREW, Self-Tapping Hex Head 10-24 x 0.375
14	77450100	PLENUM, Logic Air
		(ATTACHING PARTS)
	10127112	SCREW, Pan Head Machine, 6-32 x 0.313
	93660041	SCREW, Pan Head Machine, 6-32 x .312
	10126401	WASHER, External Tooth Lock, #6
		- - - * - - -
15	10127131	SCREW, Pan Head Machine, 10-24 x 0.375
16	10126403	WASHER, External Tooth Lock, #10
17	53777904	NUT, Lock, Captivated, #10
18	83277100	HINGE, Logic Chassis
18	83277101	HINGE, Logic Chassis
19	83278002	STRAP, Large Cable
20	10127132	SCREW, Pan Head, Machine, 10-24 x 0.500

NON-VDE
VDE

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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3-5

FINAL FRAME ASSEMBLY

(Sheet 3 Contd)

21		LOGIC CHASSIS ASSEMBLY (See Figure 3-7)	
22	94237705	TRIM, Safety	
23	46068500	PLATE, Information	
24	93592196	SCREW, Self-Tapping Hex Washer Head, 8-32 x 1/4	
25	10127112	SCREW, Pan Head Machine, 8-32 x 0.313	
26	10125605	WASHER, Flat, #6	
27	10125803	WASHER, Spring Lock, #6	
28		I/O CABLE ASSEMBLY (See Figure 3-10)	
29	77454900	LATCH, Rear Door	
30	92602014	CLAMP, Nylon Cable	
31	10127123	SCREW, Pan Head Machine, 8-32 x 0.500	
32	93573004	STUD ASSEMBLY, 1/4 Turn	
33	93572001	RING, Snap	
34	93571002	GROMMET	
35	77458900	SHIELD, I/O	
36	10127124	SCREW, Pan Head Machine, 6-32 x .625	
37	77458400	COVER, I/O	
38	93592214	SCREW, Self-Tapping, 8-32 x 1-1/2	
39	94276602	TAPE, Foam	
40		NOT USED	
41	94311632	HOSE, Flexible	
42	10127127	SCREW, Pan Head Machine, 8-32 x 1	
43	92602017	CLAMP, Nylon Cable	
44	10125606	WASHER, Flat, #8	
45		NOT USED	
46	47354900	KEEPER, Latch	S/C 23 W/ 57353 & Above Only
47		NOT USED	
48	10125803	WASHER, Spring Lock, #6	S/C 23 W/ 57353 & Above Only
49	93112369	STANDOFF, Spacer	S/C 23 W/ 57353 & Above Only
50	10127132	SCREW, Phillips Pan Head Machine, 10-24 x 1/2	S/C 23 W/ 57353 & Above Only
51	92196013	NUT, Speed	S/C 23 W/ 57353 & Above Only
52	73029600	LATCH, Top Cover	S/C 23 - 25 Only W/O 57507
52	72874800	LATCH, Top Cover	S/C 25 & Above, and Earlier Units W 57507

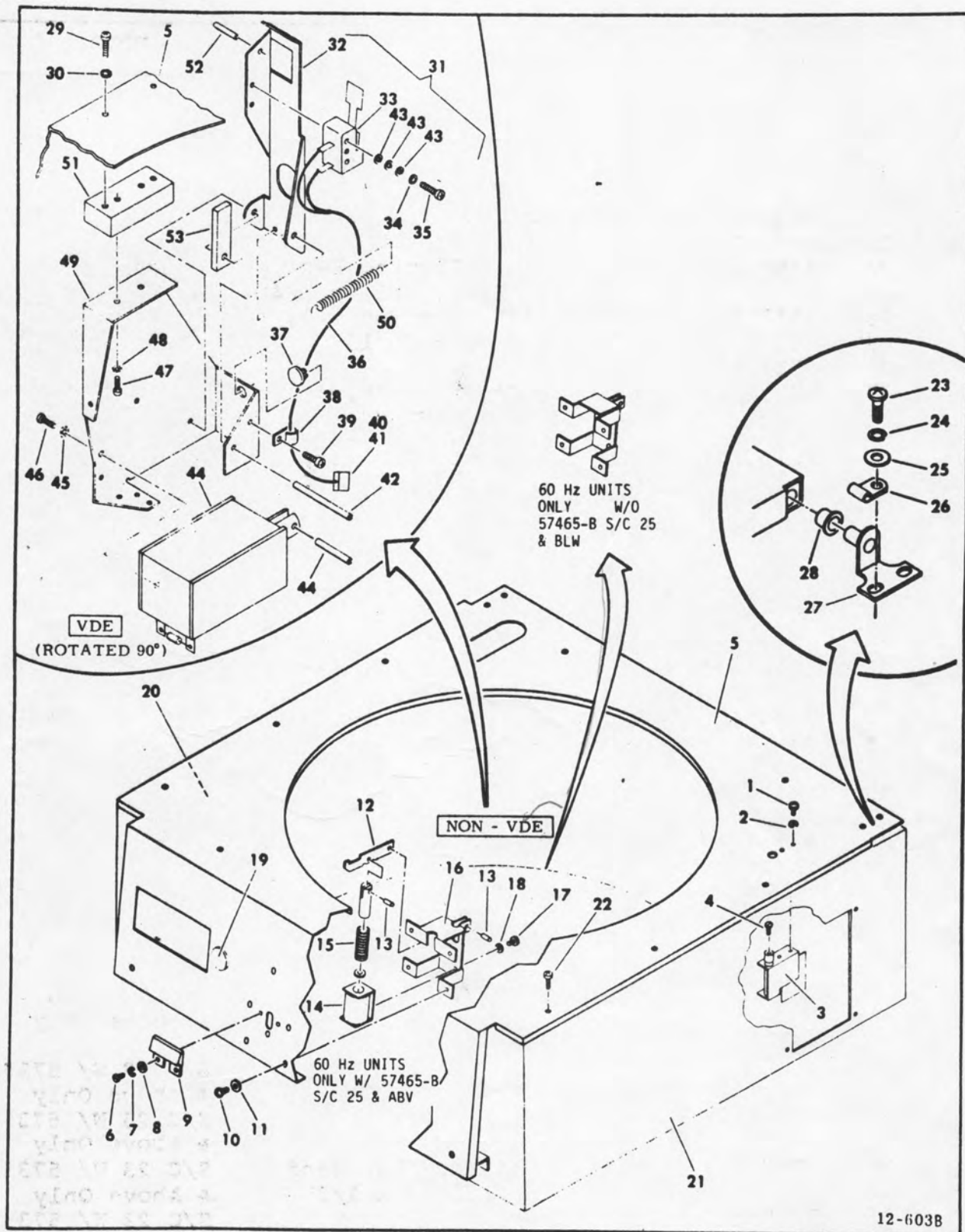


Figure 3-6. Shroud Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-6	77450603	SHROUD ASSEMBLY	NON-VDE VDE & 50 Hz units S/C 26 & Below w/o 57579-A, 60 Hz units S/C 25 & Below w/o 57465-B
3-6	77450612	SHROUD ASSEMBLY	
3-6	77450608	SHROUD ASSEMBLY	60 Hz units Only S/C 25 & Above w/ 57465-B
3-6	77450613	SHROUD ASSEMBLY	50 Hz units only S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A
1	92748156	SCREW, Pan Head Machine, 6-32 x 3/16	NON-VDE & 50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B
2	10125803	WASHER, Spring Lock, #6	50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A
3	##	SWITCH, Interlock (A3S1)	NON-VDE & 50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B
4	93342096	SCREW, Nylon	NON-VDE & 50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-6		SHROUD ASSEMBLY (Contd)	
5	83260200	COVER, Shroud	NON-VDE & 60 Hz units Only S/C 25 & Below w/o 57465-B
5	83260201	COVER, Shroud	60 Hz units Only S/C 25 & Above w/ 57465-B
5	72882700	COVER, Shroud	VDE & 50 Hz units S/C 26 & Below w/o 57579-A
5	72883700	COVER, Shroud	50 Hz units only S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A
6	92785086	SCREW, Pan Head Machine, 4-40 x 3/8	NON-VDE & 50 Hz units S/C 26 & Below w/o 57579-A, 60 Hz units S/C 25 & Below w/o 57465-B
6	92785088	SCREW, Pan Head Machine, 4-40 x 3/8	50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B
7	10125801	WASHER, Spring Lock, #4 4-40 x 3/8	60 Hz units Only S/C 25 & Above w/ 57465-B
8	93211105	WASHER, Flat, #4	60 Hz units Only S/C 25 & Above w/ 57465-B
9	76427701	CATCH, Pack Access Cover	50 Hz units S/C 26 & Below w/o 57579-A, 60 Hz units S/C 25 & Below w/o 57465-B

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-6		SHROUD ASSEMBLY (Contd)	
9	73076801	CATCH, Pack Access Cover	50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B
10	93195234	SCREW, Pan Head Machine, 6-32 x 0.313	NON-VDE & 50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Below w/ 57465-B
11	93211107	WASHER, Steel Flat, #6	NON-VDE & 50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B
12	77455400	LATCH, Interlock	NON-VDE & 60 Hz units Only S/C 25 & Above w/ 57465-B
13	93533079	PIN, Roll	NON-VDE & 60 Hz units Only S/C 25 & Above w/ 57465-B
14	94237902	SOLENOID, DC (Pack Access (Cover) (A3L1)	NON-VDE & 60 Hz units Only S/C 25 & Above w/ 57465-B
15	77455300	SPRING, Compression	60 Hz units Only S/C 25 & Above w/ 57465-B
16	77454100	BRACKET, Solenoid	NON-VDE & 60 Hz units Only S/C 25 & Below w/o 57465-B

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-6		SHROUD ASSEMBLY (Contd)	
16	73078000	BRACKET, Solenoid	50 Hz units S/C 27 & Above w/ 57579-A and earlier units w/ 57579-A, 60 Hz units S/C 25 & Above w/ 57465-B
17	92742156	SCREW, Pan Head Machine, 6-32 x 3/16	NON-VDE & 60 Hz units only S/C 25 & Above w/ 57465-B
18	10125803	WASHER, Spring Lock, #6	NON-VDE & 60 Hz units only S/C 25 & Above w/ 57465-B
19	94279416	BUTTON, Plug	
20	94001100	TAPE, Foam	
21	83228800	SHROUD, Pack	
22	92748198	SCREW, Machine, 8-32 x 1/4	
23	10127123	SCREW, Machine, Pan Head, 8-32 x 1/2	
24	10125804	WASHER, Lock, Spring, #8	
25	93211108	WASHER, Flat, #8	
26	92602001	CLAMP, Cable, Nylon	
27	77442500	HINGE, Cover, Pack Access	60 Hz units only S/C 25 & Above w/ 57465-B
28	93847002	BEARING, Flanged	60 Hz units only S/C 25 & Above w/ 57465-B
29	92748238	SCREW, Pan Head Machine, 10-24 x 3/8	
30	10126105	WASHER, Internal Tooth Lock, #10	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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3-6
31 73077702 SHROUD ASSEMBLY (Contd)
INTERLOCK ASSEMBLY

VDE & 50 Hz
units S/C 27 &
Above w/
57579-A and
earlier units
w/ 57579-A

(ITEMS LISTED BELOW THIS
NOTE ARE PART OF THE
INTERLOCK ASSEMBLY)

32	83641100	LATCH, Interlock
33	83627600	SWITCH
34	10126100	WASHER, Internal Tooth Lock, #2
35	10127315	SCREW, Pan Head Machine, 2-56 x 5/8
36	73077800	CABLE ASSEMBLY, Top Cover
37	93549009	BUMPER, Nylon
38	42602001	CLAMP, Cable, Nylon

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-6		SHROUD ASSEMBLY (Contd)	
39	10127345	SCREW, Pan Head Machine	
40	93943001	CONTACT, Socket	
41	93947009	CONNECTOR (Socket Housing)	
42	93533146	PIN, Roll, 1.250 x .125	
43	10125602	WASHER, Flat #2	
44	73076100	SOLENOID, 20 V dc	
45	10126402	WASHER, External Tooth Lock, #8	
46	10127120	SCREW, Pan Head Machine, 8-32 x 1/4	
47	10127131	SCREW, Pan Head Machine, 10-24 x 3/8	
48	10126403	WASHER, External Tooth Lock, #10	
49	83641000	BRACKET, Mounting, Interlock	
50	40063200	SPRING, Extension	
51	83641200	BLOCK, Mounting, Interlock	
52	93533085	PIN, Roll, .500 x .094	
53	94376723	PLATE, Nut	
54	95660411	TAPE, Poly (CDC Class H App.)	

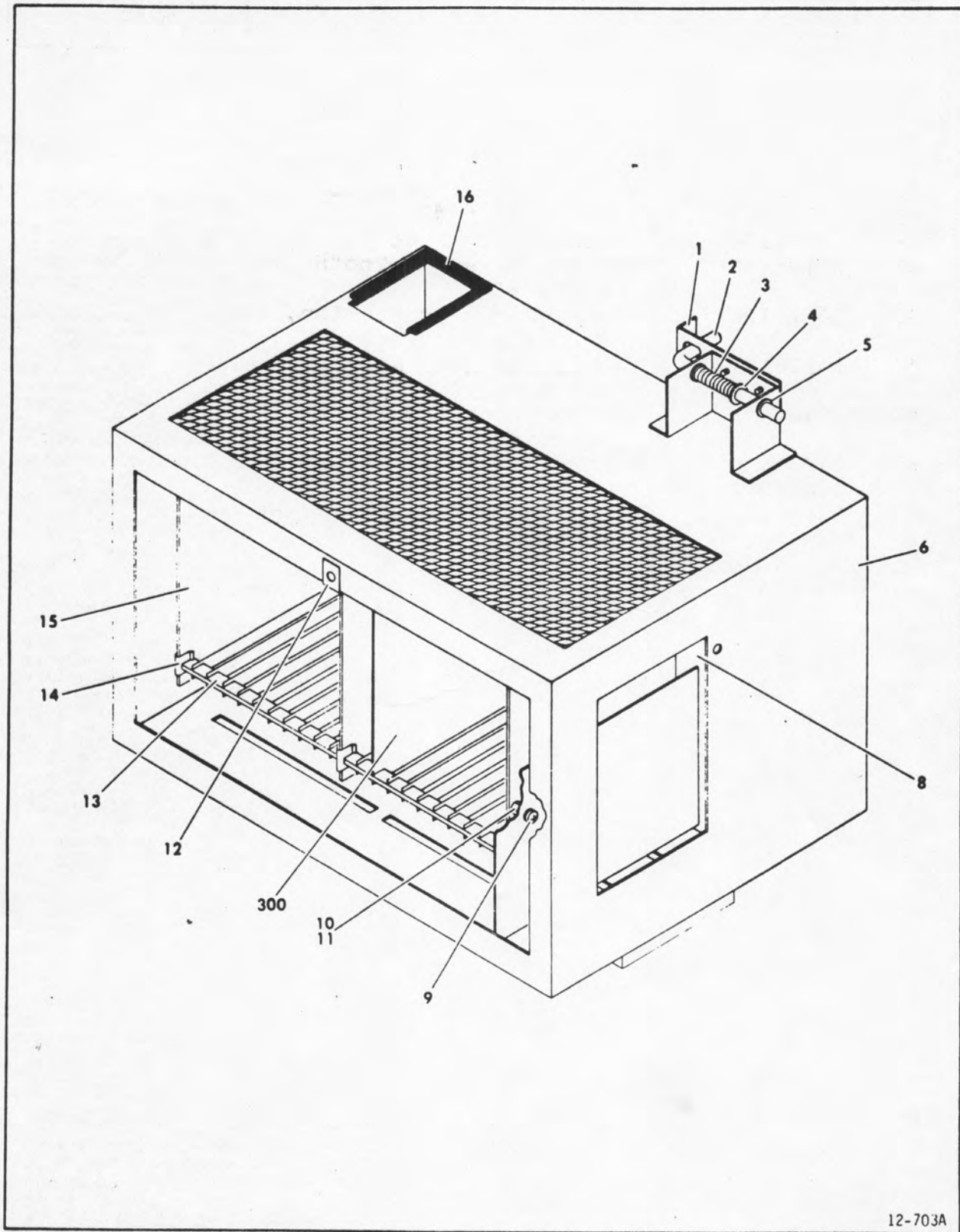
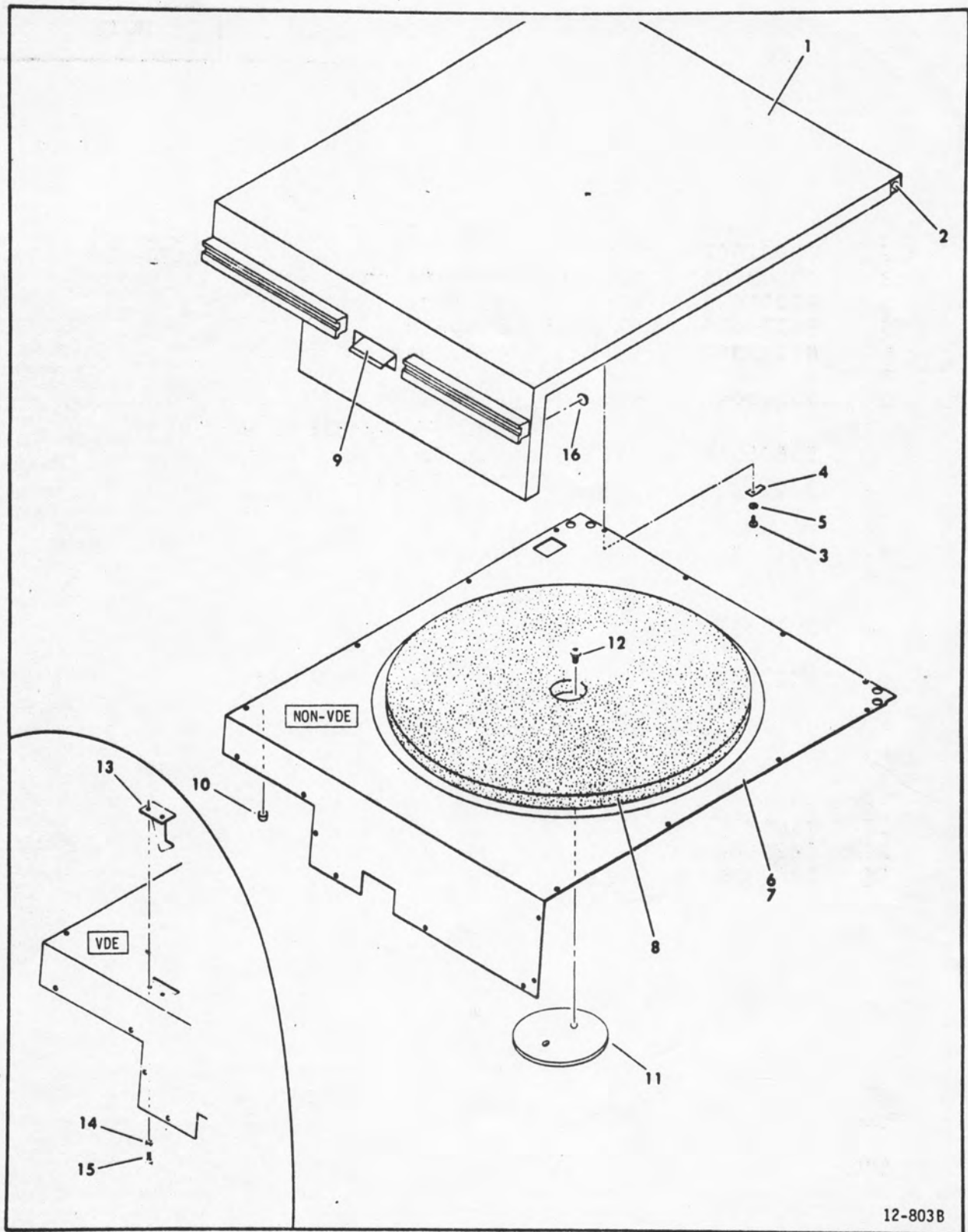


Figure 3-7. Logic Chassis Assembly



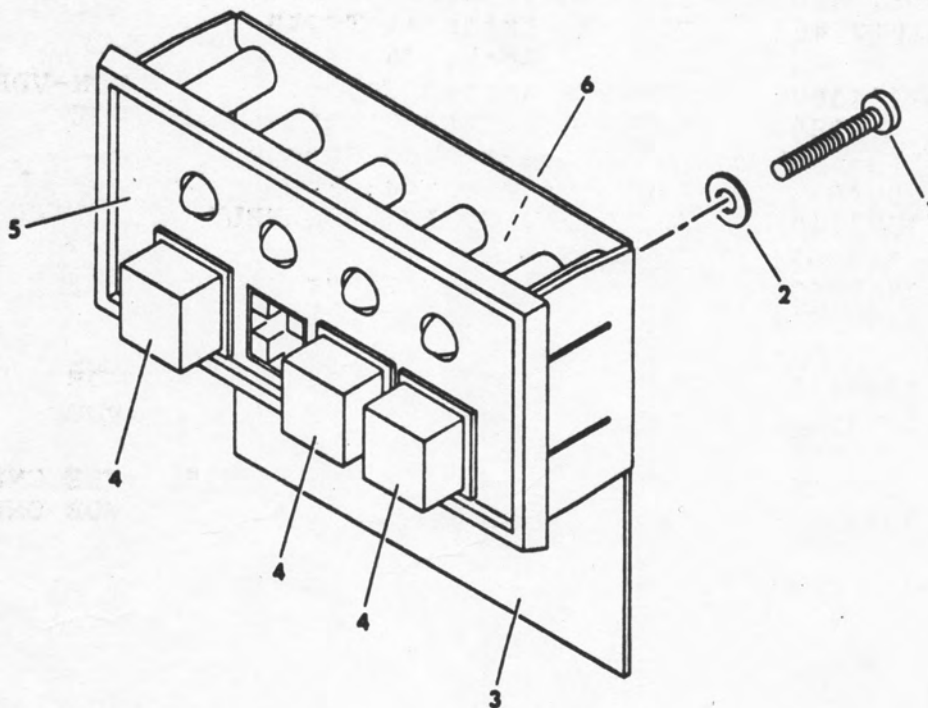
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-7	774465XX	LOGIC CHASSIS ASSEMBLY	
1	70741700	GUIDE, Latch (ATTACHING PARTS)	
	93592158	SCREW, Self-Tapping Hex Washer Head, 6-32 x 1/4 - - - * - - -	
2	40032301	LATCH	
3	45229900	SPRING, Compression	
4	92033038	RING, Retaining	
5	92373005	NYLINER, Snap-In	
6	83275300	FRAME, Logic Chassis	
7		NOT USED	
8	774479XX	WIRE WRAP ASSEMBLY (ATTACHING PARTS)	
	95655516	SCREW, Sheet Metal, 6-20 x 0.375	
	95634802	NUT, U-Type Speed - - - * - - -	
9	10125803	WASHER, Spring Lock, #6	
10	10127331	SCREW, Pan Head Machine, 6-32 x 3/16	
11	93114275	STANDOFF, Tapped Post (ATTACHING PARTS)	
	10126401	WASHER, External Tooth Lock, #6	
	10127111	SCREW, Pan Head Machine, 6-32 x 1/4 - - - * - - -	
12	94317800	RECEPTACLE, Clip-On	
13	46490201	RAIL, Guide	
14	94309003	CLIP, U-Type	
15	77388200	PANEL, 3 Position Perpendicular (ATTACHING PARTS)	
	93592200	SCREW, Self-Tapping Hex Head, 8-32 x 0.375 - - - * - - -	
16	95116302	TAPE, Electrical (ITEMS LISTED BELOW ARE NOT PART OF THE LOGIC CHASSIS ASSEMBLY)	
300	##	LOGIC CARDS	



12-803B

Figure 3-8. Pack Access Cover Assembly

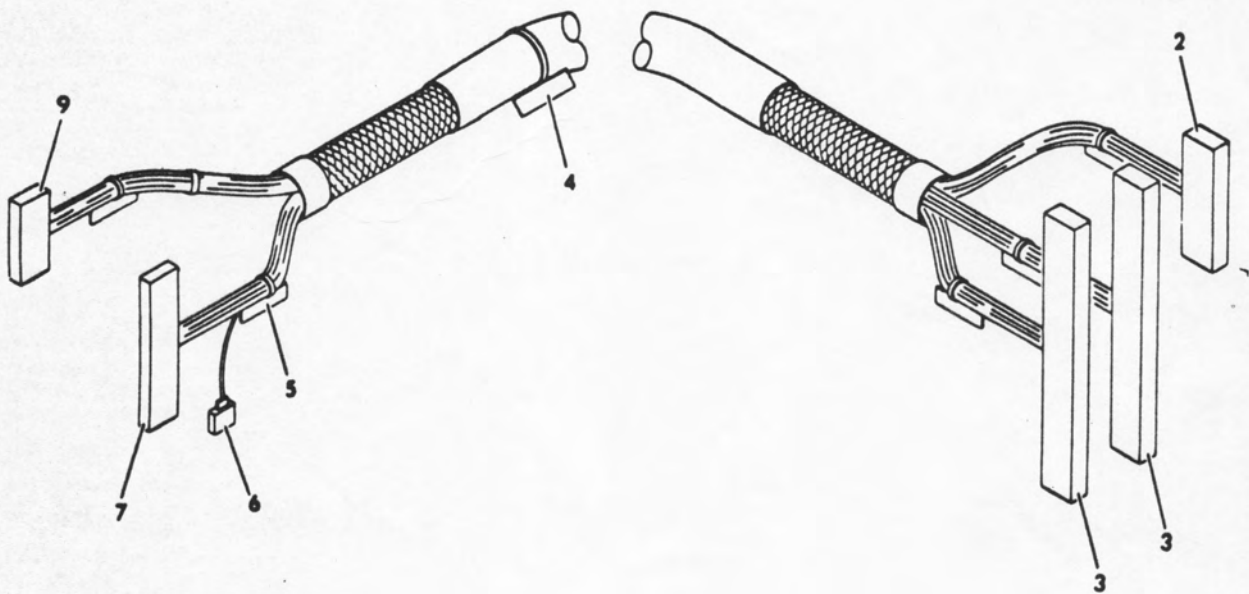
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-8	77446942	PACK ACCESS COVER ASSEMBLY	NON-VDE
3-8	77446955	PACK ACCESS COVER ASSEMBLY	VDE
1	77443507	COVER, Pack Access	
2	77442400	BLOCK, Hinge	
3	93195238	SCREW, Button, 6-32 x 0.250	
4	94274101	TERMINAL, Quick Connect	
5	10126401	WASHER, External Tooth Lock, #6	
6	77443900	INSERT, Access Cover	NON-VDE
6	72882800	INSERT, Access Cover	VDE
7	77561401	GASKET, Extended Sponge	
8	75040456	PANEL, Acoustical Foam	
9	75071406	LATCH AND SPRING ASSEMBLY	
10	92633024	BUMPER, Stop	
11	82379600	BUTTON, Access Cover	
12	94375824	SCREW, Thread Form Pan Head, 8-16 x 0.375	
13	83641300	HOOK, Interlock	VDE
14	10126103	WASHER, Internal Tooth Lock, #6	VDE
15	93195234	SCREW, Button, 6-32 x 0.250	VDE ONLY
16	92633026	BUMPER, Grommet	VDE ONLY



12-901A

Figure 3-9. Control Panel Switch Assembly

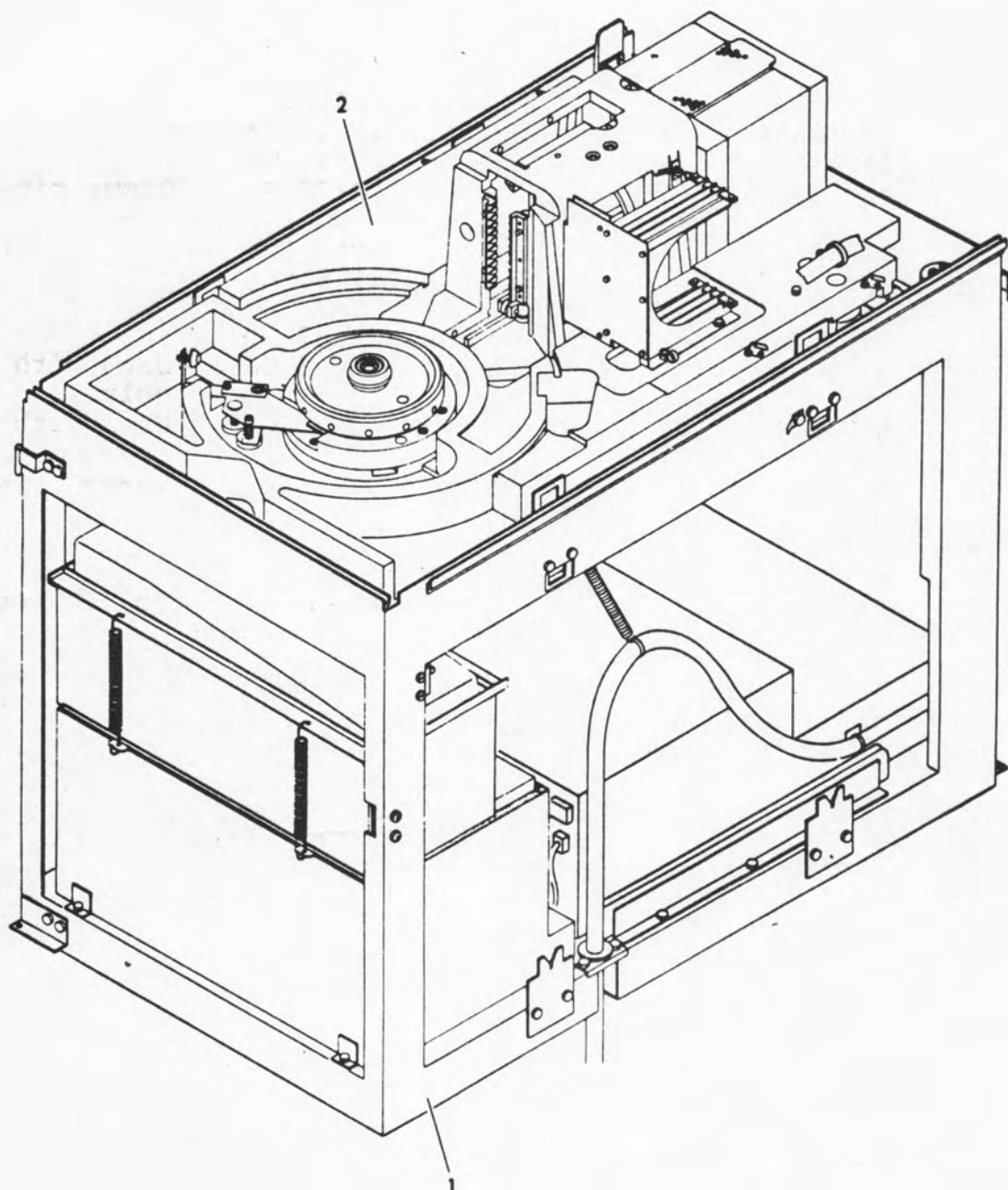
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-9	##	CONTROL PANEL SWITCH ASSEMBLY	
1	17901505	SCREW, Thread Roll Phillips, 4-40 x 0.750	
2	10125603	WASHER, Flat, #4	
3	75072009	HZYN COMPONENT ASSEMBLY	
4	75068300	BUTTON, Front Panel	
5	76422400	BEZEL, Panel Front	
6	94208501	LABEL, Part Number	



12-1006B

Figure 3-10. I/O Cable Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-10	75165700	I/O CABLE ASSEMBLY	
1		NOT USED	
2	94261810	BODY, 28-Cavity Connector Socket (PA5) (ASSOCIATED PARTS)	
	94245604	CONTACT, Socket, 28-32 Ga	
	94245601	CONTACT, Socket, 22-26 Ga	
	94245616	CONTACT, Socket, 22-26 Ga - - - * - - -	Dummy pins
3	94261811	BODY, 62-Cavity Connector Socket (PA1 & PA2) (ASSOCIATED PARTS)	
	94245604	CONTACT, Socket, 28-32 Ga	
	94245601	CONTACT, Socket, 22-26 Ga	Used with PA1 only
	94245607	CONTACT, Socket, 18-20 Ga	Used with PA2 only
	94245616	CONTACT, Socket, 22-26 Ga - - - * - - -	Dummy pins
4	94277407	STRAP, Cable Tie	
5	94277409	STRAP, Cable Tie	
6	95643213	CONNECTOR, Quick Connect	To J2 ground
7	94361115	HOUSING, 60-Cavity Connector Socket (PA3) (ASSOCIATED PARTS)	
	94245604	CONTACT, Socket, 28-32 Ga	
	94245601	CONTACT, Socket, 22-26 Ga - - - * - - -	
8		NOT USED	
9	94361105	HOUSING, 26-Cavity Connector Socket (PA2) (ASSOCIATED PARTS)	
	94245604	CONTACT, Socket, 28-32 Ga	
	94245601	CONTACT, Socket, 22-26 Ga - - - * - - -	



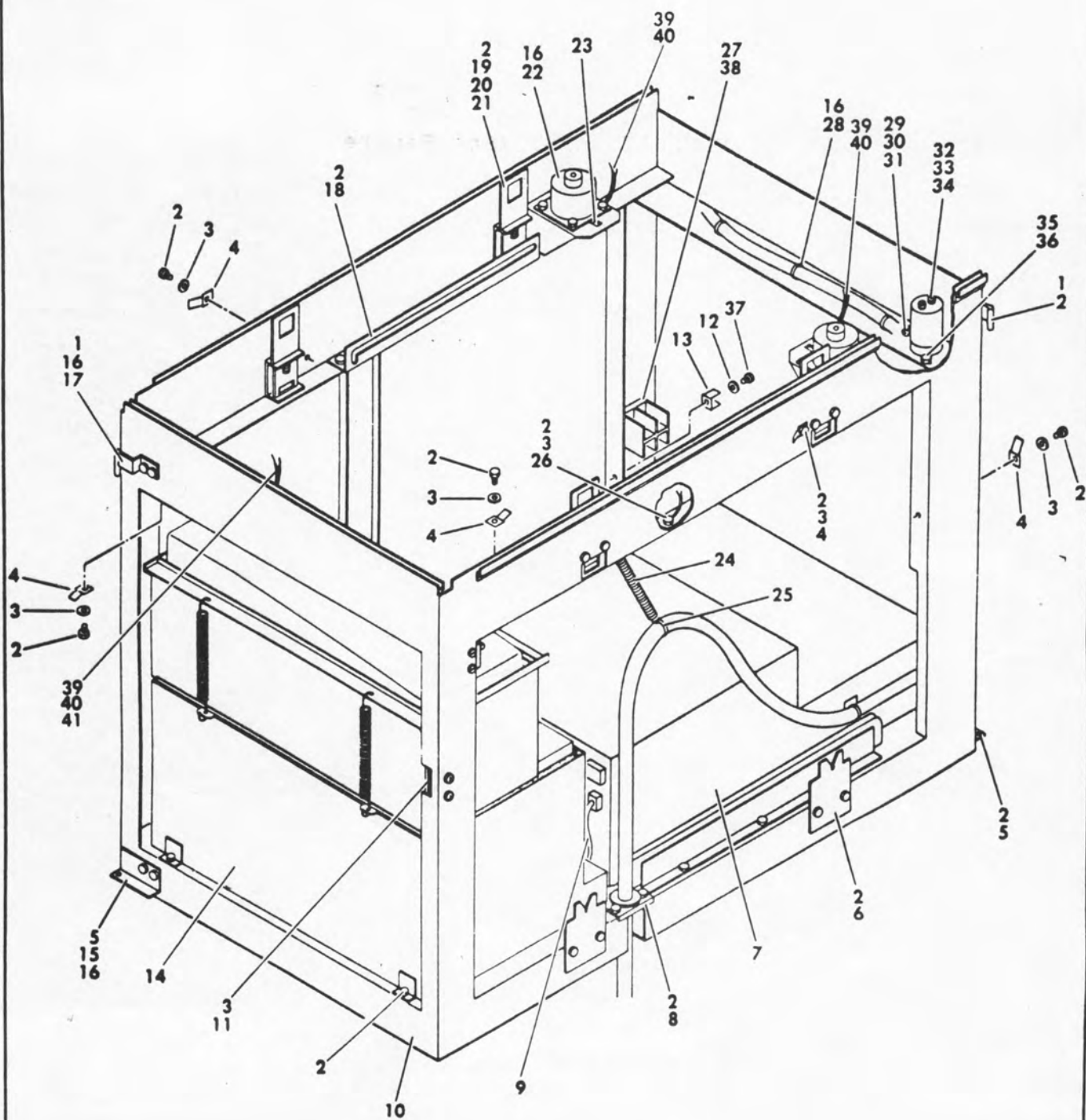
12-11008

Figure 3-11. Frame And Deck Assembly (NON-VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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3-11 774502XX FRAME AND DECK ASSEMBLY (NON-VDE)

- 1 FRAME ASSEMBLY (See Figures
3-12 and 3-13)
- 2 DECK ASSEMBLY (See Figure
3-26)

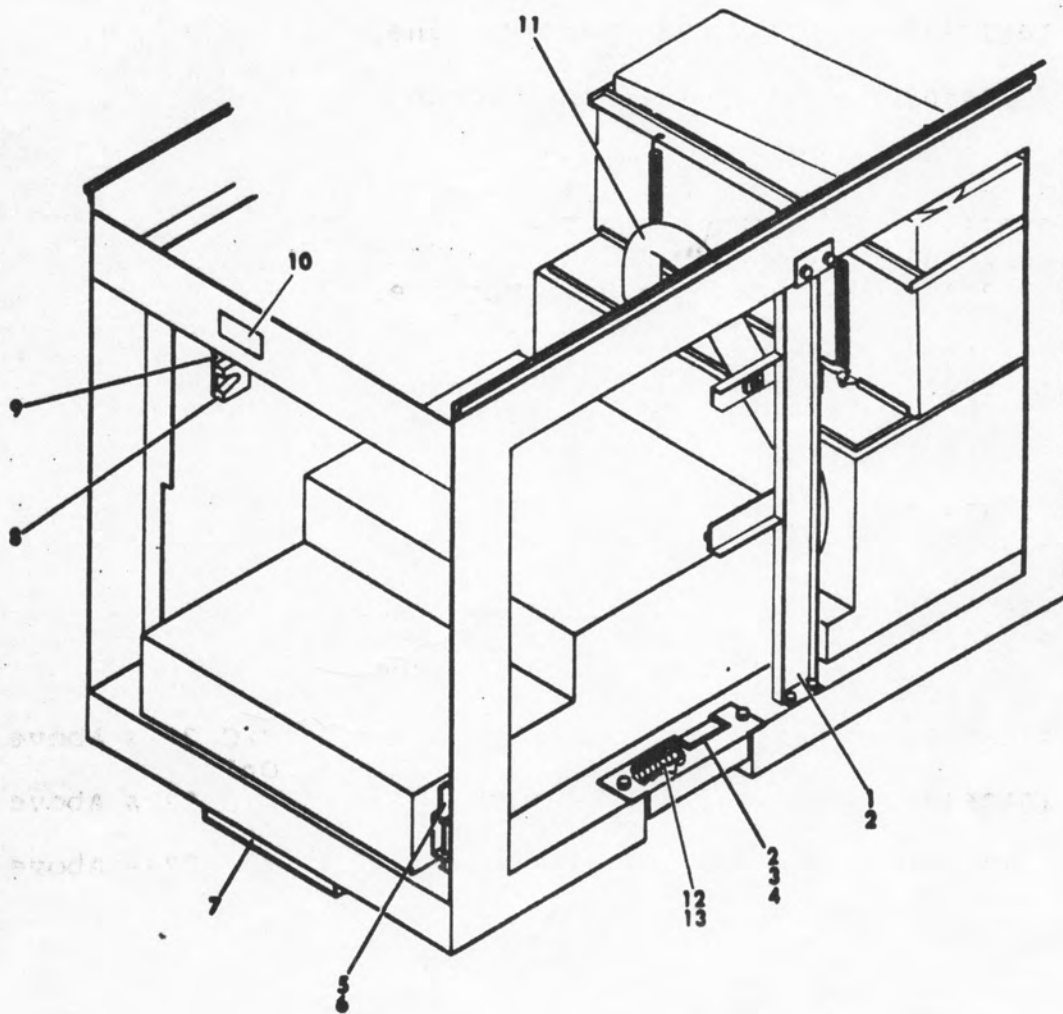


12-1201(1)E

Figure 3-12. Frame Assembly Front (NON-VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-12	774470XX	FRAME ASSEMBLY Front (NON-VDE)	
1	83242700	HINGE, Door Top	
2	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375	
3	10126403	WASHER, External Tooth Lock, #10	
4	94274140	TERMINAL, Quick Connect	
5	83242800	HINGE, Door Bottom	
6	77443800	BRACKET, Side Panel	
7		POWER SUPPLY ASSEMBLY (See Figures 3-18 and 3-19) (ATTACHING PARTS)	
	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375 - - - * - - -	
8	77453800	BRACKET, Snap Bushing	
9	77448900	BLOWER CABLE ASSEMBLY (ASSOCIATED PARTS)	
	51906001	CONNECTOR, Plug (P2 & P9)	
	51905800	CONTACT, Pin - - - * - - -	
10	47293400	FRAME, Main	
11	10125107	NUT, Hex, #10-24	
12	10127348	SCREW, Pan Head Machine, 8-32 x 0.750	
13	94274117	TERMINAL, Quick Connect	
14		BLOWER PLENUM ASSEMBLY (See Figure 3-17)	
15	77443101	SPACER, Hinge	
16	93592240	SCREW, Self-Tapping Hex Head, 10-24 x 0.500	
17	77443100	SPACER, Hinge	
18	77446000	SLIDE, Retaining Rod	
19	77441500	SPACER, Hinge	
20	77441400	LATCH, Side Panel	
21	77454500	SPRING, Compression	
22	94245302	ISOLATOR, Vibration	
23	93602322	NUT, Self Mounting, #1/4-20	
24	77450800	SPRING, Extension	
25	94277421	STRAP, Cable Tie	
26	94369533	CABLE, Ground	

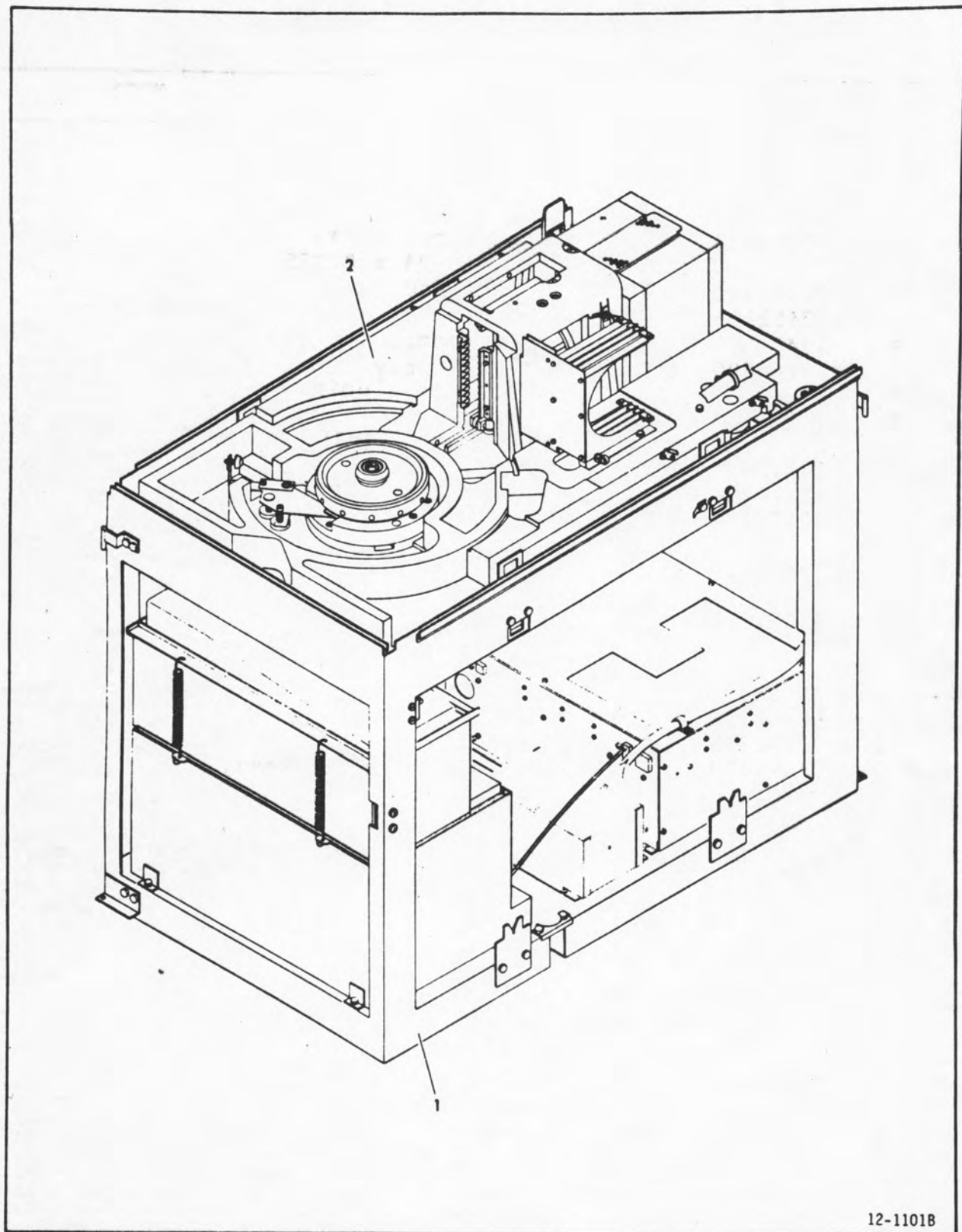
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-12	774470XX	FRAME ASSEMBLY Front (NON-VDE) (Contd)	
27	94391000	TERMINAL BLOCK, Heavy Duty (ATTACHING PARTS)	
	10127348	SCREW, Pan Head Machine, 8-32 x 0.750	
	10126402	WASHER, External Tooth Lock, #8	
	10125106	NUT, Hex, #8-32 - - - * - - -	
28	94277406	STRAP, Cable Tie	
29	10125105	NUT, Hex, #6-32	
30	10127115	SCREW, Pan Head Machine, 6-32 x 0.625	
31	10125605	WASHER, Flat, #6	
32	10127142	SCREW, Pan Head Machine, 10-32 x 0.375	
33	10126105	WASHER, Internal Tooth Lock, #10	
34	92632017	CAPACITOR, Electrolytic	
35	93592158	SCREW, Self-Tapping Hex Head, 6-32 x 0.250	
36	92691003	CLAMP, Capacitor Mounting	
37	93592202	SCREW, Self-Tapping Hex Head, 8-32 x 0.500	
38		NOT USED	
39	94369555	CABLE, Ground	S/C 22 & Above Only
40	10126401	WASHER, External Tooth Lock, #6	S/C 22 & Above Only
41	93592162	SCREW, Self-Tapping Hex Head, 6-32 x 3/8	S/C 22 & Above Only



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Figure 3-13. Frame Assembly Rear (NON-VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-13		FRAME ASSEMBLY Rear (NON-VDE)	
1	83275200	BRACKET, I/O Mount	
	94303500	RECEPTACLE	
2	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375	
3	94385500	GROMMET, Extruded	
4	77451101	COVER, I/O Cable	
5	77454500	SPRING, Compression	
6	77449600	LATCH, Power Supply	
7	##	FILTER, Washable Aluminum	
8	70741800	LATCH, Stop	
		(ATTACHING PARTS)	
	10125607	WASHER, Flat, #10	
	92721284	SCREW, Button Socket Head	
	92071007	NUT, Hex, #10-24	
		- - - * - - -	
9	77445700	BRACKET, Logic Catch	
		(ATTACHING PARTS)	
	93592238	SCREW, Self-Tapping Hex Head, 10-24 x .375	
		- - - * - - -	
10	92006808	PLATE, ID	
11	94311633	HOSE, Flexible	
12	73050901	CLAMP, Cable	
13	93592210	SCREW, Self Tapping Hex Head, 8-32 x 1.000	

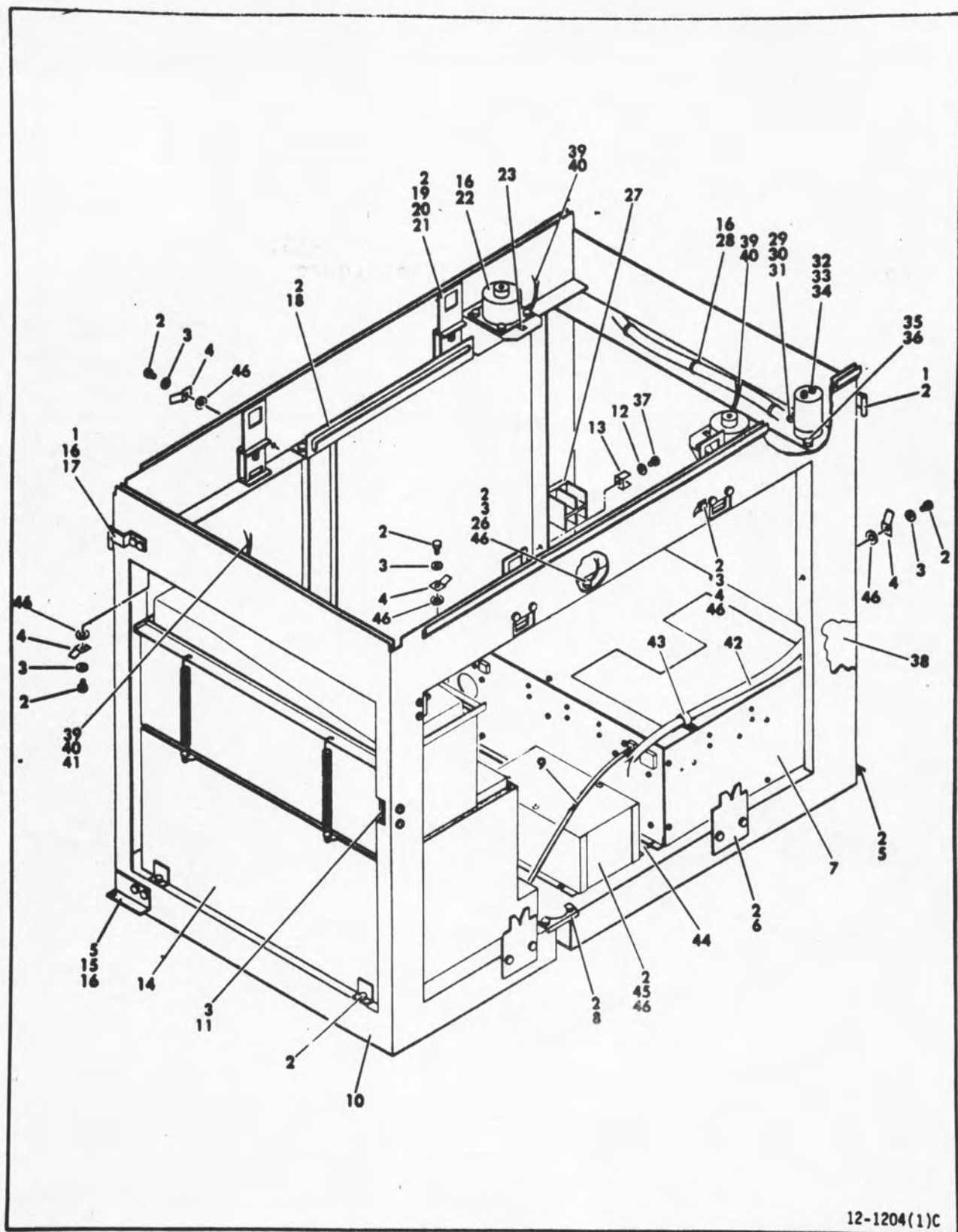


12-1101B

Figure 3-14. Frame and Deck Assembly (VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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3-14	774502XX	FRAME AND DECK ASSEMBLY (VDE)	
1		FRAME ASSEMBLY (See Figures 3-15 and 3-16)	
2		DECK ASSEMBLY (See Figure 3-26)	

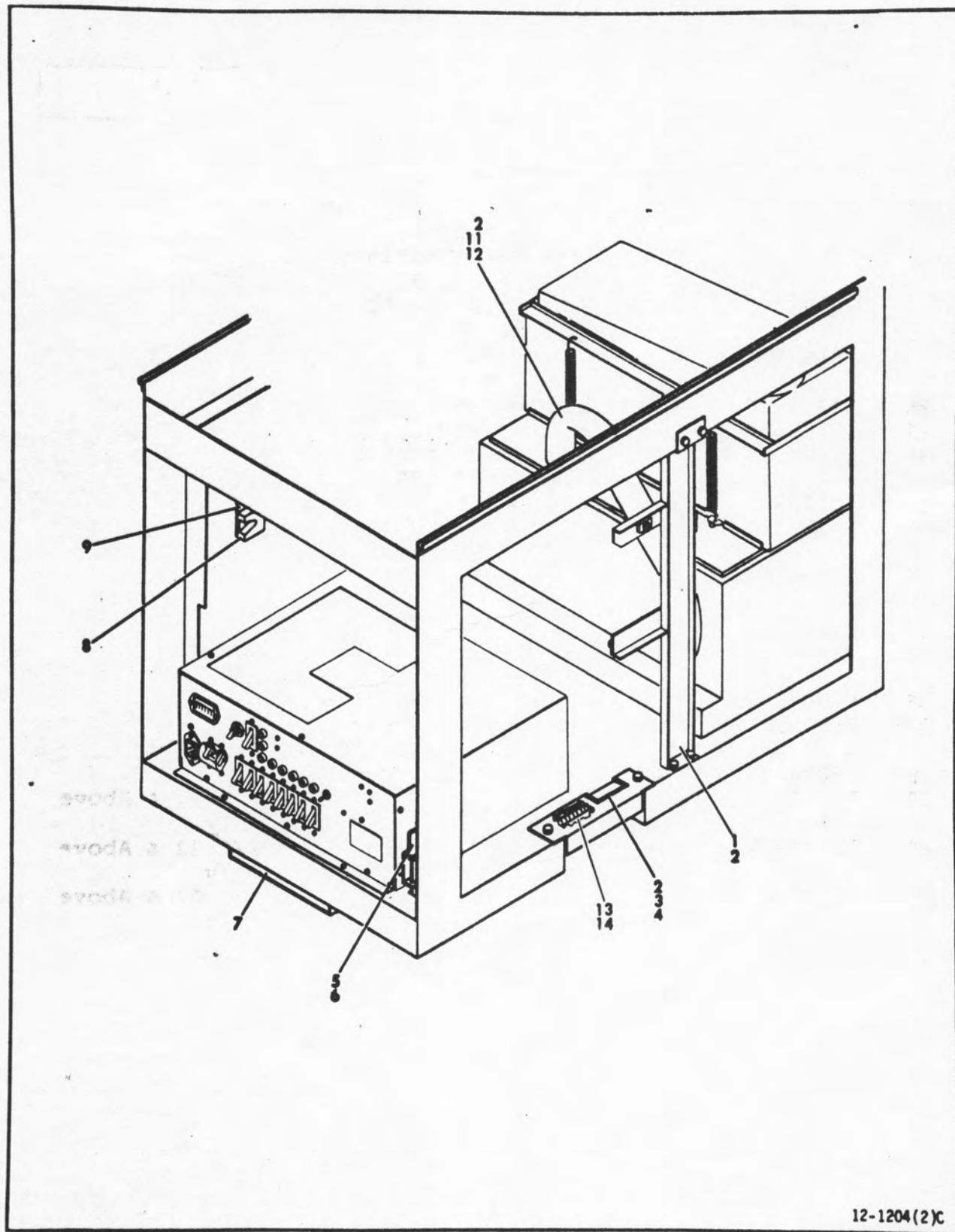


12-1204(1)C

Figure 3-15. Frame Assembly Front (VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-15	774470XX	FRAME ASSEMBLY Front (VDE)	
1	83242700	HINGE, Door Top	
2	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375	
3	10126403	WASHER, External Tooth Lock, #10	
4	94274140	TERMINAL, Quick Connect	
5	83242800	HINGE, Door Bottom	
6	77443800	BRACKET, Side Panel	
7		POWER SUPPLY ASSEMBLY (See Figures 3-22 and 3-23) (ATTACHING PARTS)	
	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375 - - - * - - -	
8	77453800	BRACKET, Snap Bushing	
9	77448901	BLOWER CABLE ASSEMBLY (ASSOCIATED PARTS)	
	51906001	CONNECTOR, Plug (P2 & P9)	
	51905800	CONTACT, Pin - - - * - - -	
10	73077200	FRAME, Main	S/C 26 & Below w/o 13014
10	72884400	FRAME, Main	S/C 26 & Above w/ 13014, and earlier units w/ 13014
11	10125107	NUT, Hex, #10-24	
12	10127348	SCREW, Pan Head Machine, 8-32 x 0.750	
13	94274117	TERMINAL, Quick Connect	
14		BLOWER PLENUM ASSEMBLY (See Figure 3-17)	
15	77443101	SPACER, Hinge	
16	93592240	SCREW, Self-Tapping Hex Head, 10-24 x 0.500	
17	77443100	SPACER, Hinge	
18	77446000	SLIDE, Retaining Rod	
19	77441500	SPACER, Hinge	
20	77441400	LATCH, Side Panel	
21	77454500	SPRING, Compression	
22	94245302	ISOLATOR, Vibration	
23	93602322	NUT, Self Mounting, #1/4-20	
24		NOT USED	
25		NOT USED	
26	94369533	CABLE, Ground	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-15	774470XX	FRAME ASSEMBLY Front (VDE) (Contd)	
27	94391000	TERMINAL BLOCK, Heavy Duty (ATTACHING PARTS)	
	10127348	SCREW, Pan Head Machine, 8-32 x 0.750	
	10126402	WASHER, External Tooth Lock, #8	
	10125106	NUT, Hex, #8-32 - - - * - - -	
28	94277406	STRAP, Cable Tie	
29	10125105	NUT, Hex, #6-32	
30	10127115	SCREW, Pan Head Machine, 6-32 x 0.625	
31	10125605	WASHER, Flat, #6	
32	10127142	SCREW, Pan Head Machine, 10-32 x 0.375	
33	10126105	WASHER, Internal Tooth Lock, #10	
34	92632017	CAPACITOR, Electrolytic	
35	93592158	SCREW, Self-Tapping Hex Head, 6-32 x 0.250	
36	92691003	CLAMP, Capacitor Mounting	
37	93592202	SCREW, Self-Tapping Hex Head, 8-32 x 0.500	
38	09040203	WASHER, Lock Dished Type	
39	94369555	CABLE, Ground	S/C 22 & Above Only
40	10126401	WASHER, External Tooth Lock, #6	S/C 22 & Above Only
41	93592162	SCREW, Self-Tapping Hex Head, 6-32 x 3/8	S/C 22 & Above Only
42		POWER CABLE ASSEMBLY (See Figure 3-25)	
43	92602004	CLAMP, Cable	
44	73077500	BRACKET, Mounting, P.S.	
45	##	MOTOR, Relay Box Assy.	
46	09040204	WASHER, Lock Dished Type	

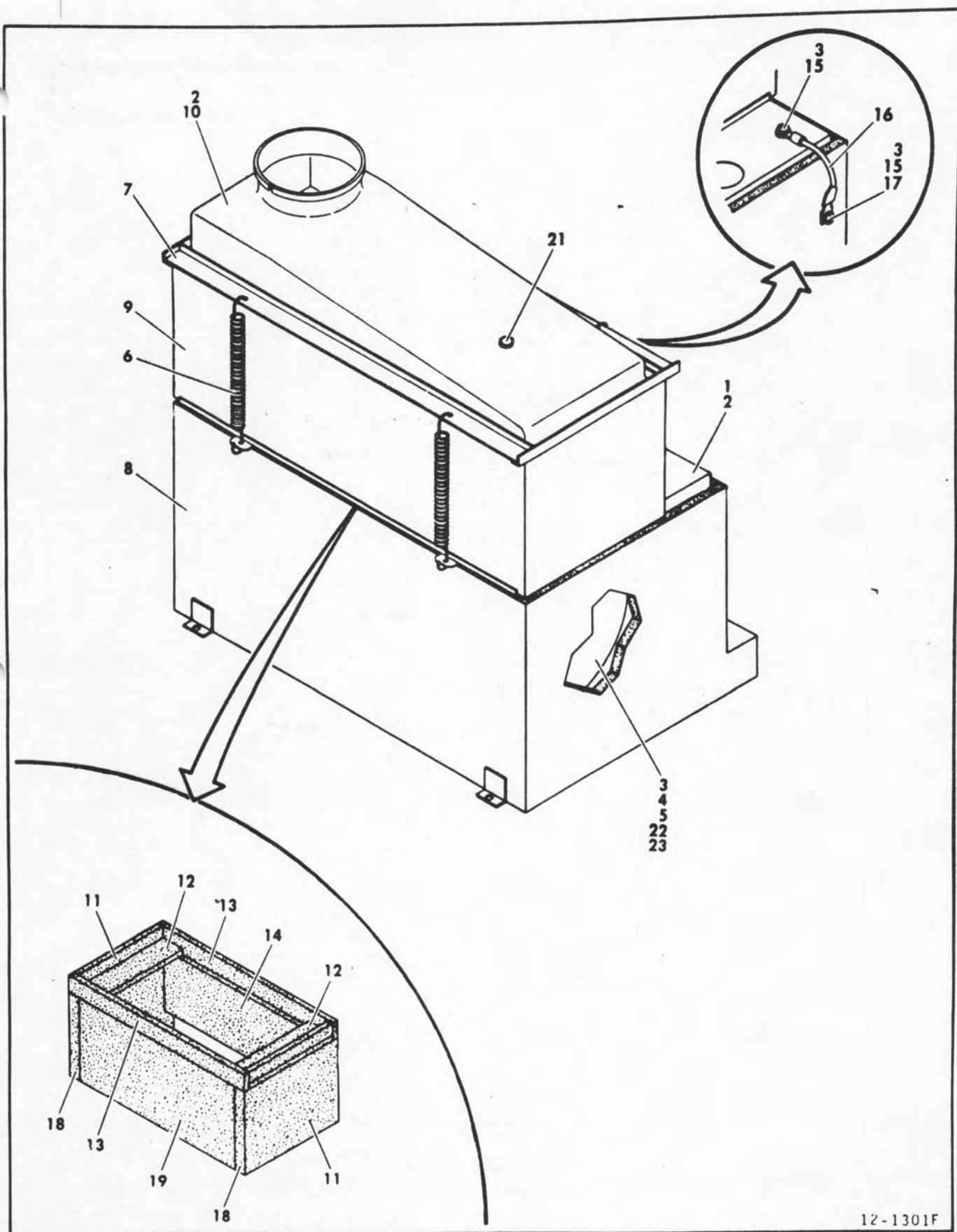


12-1204(2)C

Figure 3-16. Frame Assembly Rear (VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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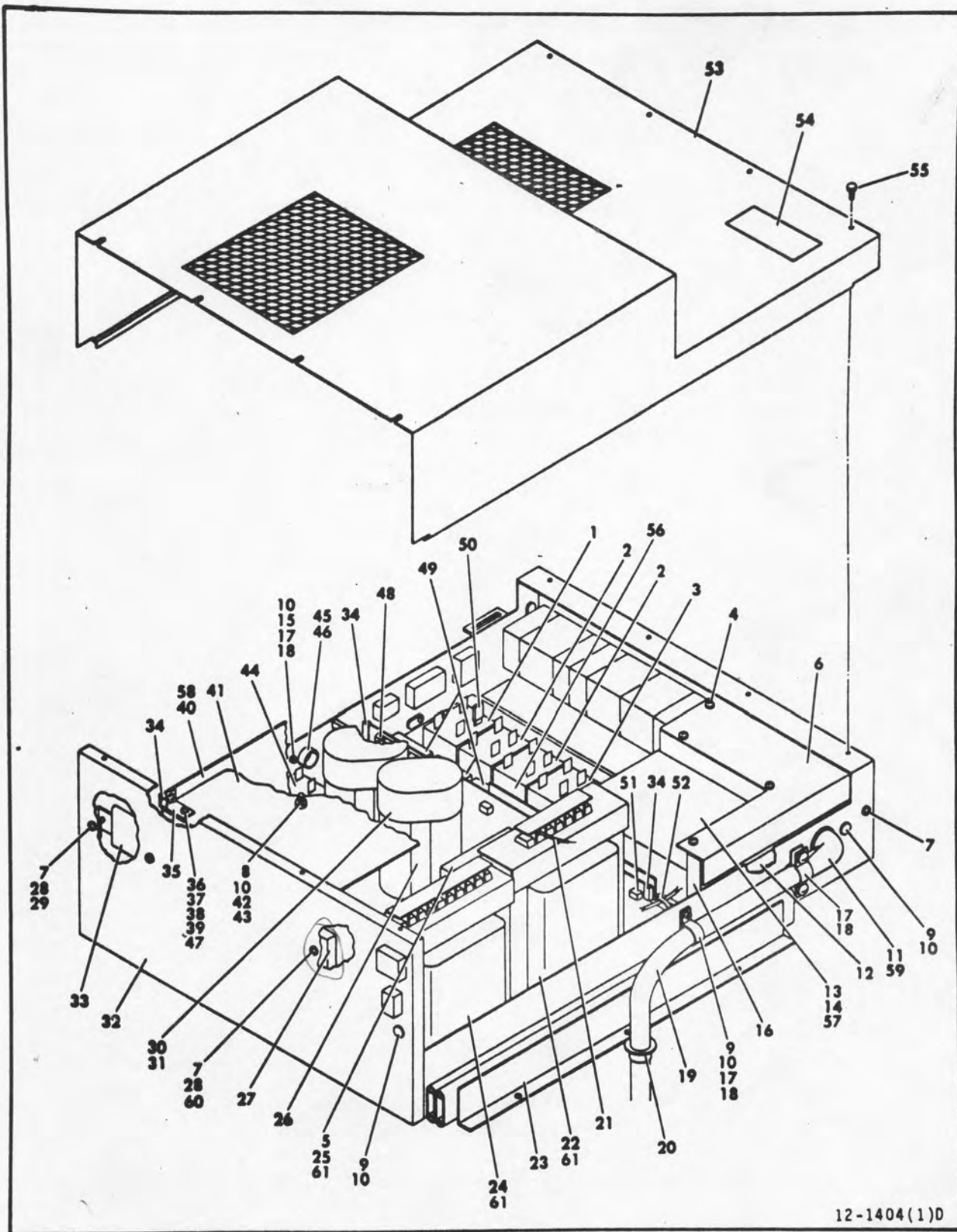
3-16		FRAME ASSEMBLY Rear (VDE)	
1	83275200	BRACKET, I/O Mount	
	94303500	RECEPTACLE	
2	93592238	SCREW, Self-Tapping Hex Head, 10-24 x 0.375	
3	94385500	GROMMET, Extruded	
4	77451101	COVER, I/O Cable	
5	77454500	SPRING, Compression	
6	77449600	LATCH, Power Supply	
7	##	FILTER, Washable Aluminum	
8	70741800	LATCH, Stop	
		(ATTACHING PARTS)	
	10125607	WASHER, Flat, #10	
	92721284	SCREW, Button Socket Head	
	92071007	NUT, Hex, #10-24	
		- - - * - - -	
9	77445700	BRACKET, Logic Catch	
		(ATTACHING PARTS)	
	93592238	SCREW, Self-Tapping Hex Head, 10-24 x .375	
		- - - * - - -	
10	92006812	PLATE, ID	
11	94311633	HOSE, Flexible	
12	92602017	CLAMP, Cable	
13	73050901	CLAMP, Cable	
14	93592210	SCREW, Self Tapping, Hex Head, 8-32 x 1.000	



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Figure 3-17. Blower Plenum Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-17	77448700	BLOWER PLENUM ASSEMBLY	
1	77441300	MOUNT, Blower	
2	94276600	TAPE, Foam	
3	10127130	SCREW, Pan Head Machine, 10-24 x 0.313	
4	##	BLOWER AND CONNECTOR ASSEMBLY	
5	10125805	WASHER, Spring Lock, #10	
6	41275402	SPRING, Extension	
7	77457500	CLAMP, Plenum Exhaust	
8	77441200	PLENUM, Intake	
9	##	FILTER, Air	
10	47322500	PLENUM, Exhaust	
11	77446804	PANEL, Acoustical Foam	
12	77446811	PANEL, Acoustical Foam	
13	77446801	PANEL, Acoustical Foam	
14	77446802	PANEL, Acoustical Foam	
15	10126403	WASHER, External Tooth Lock, #10	
16	94281495	CABLE, Ground	
17	94274140	TERMINAL, Quick Connect	
18	77446803	PANEL, Acoustical Foam	
19	77446800	PANEL, Acoustical Foam	
20	10125607	WASHER, Flat	
21	94353207	CAP & PLUG, Plastic (Red)	
22	10127131	SCREW, Pan Head Machine, 10-24 x .500	



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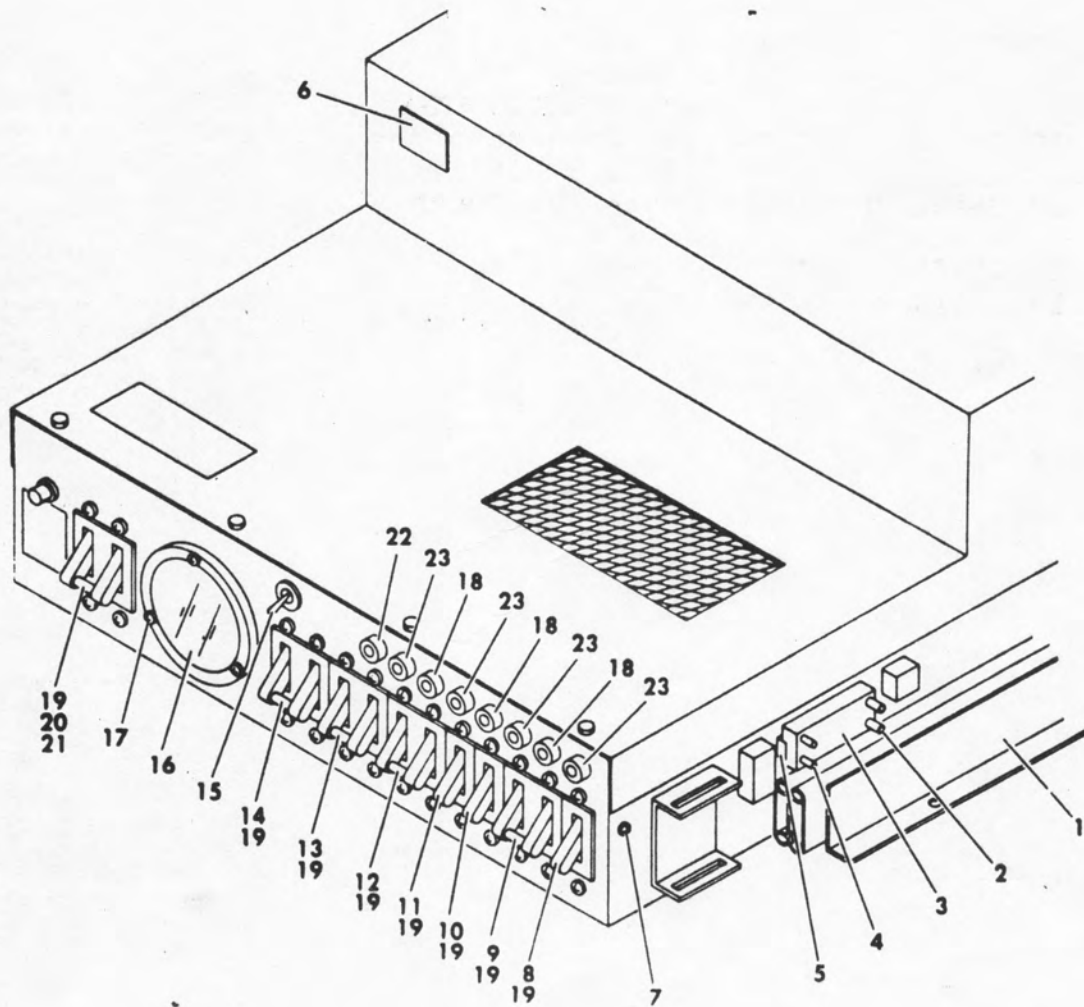
Figure 3-18. Power Supply Assembly Rear (NON-VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-18	##	POWER SUPPLY ASSEMBLY Rear (NON-VDE)	
1	##	SWITCH, AC 15A Solid State (AlQ4)	
2	##	SWITCH, AC 30A Solid State (AlQ2 & AlQ3)	
3	##	SWITCH, AC 15A Solid State (AlQ1) (ATTACHING PARTS FOR INDEX NOS 1 THRU 3)	
	93590198	SCREW, Tapping Pan Head Phillips, 8-32 x 0.313	
	10126402	WASHER, External Tooth Lock, #8 - - - * - - -	
4	93590198	SCREW, Self-Tapping Pan Head, 8-32 x 0.313	
5	77441000	CLAMP, Transformer	
6	77449100	COVER, Filter Shield	
7	10126402	WASHER, External Tooth, Lock, #8	
8	95673184	SPACER, Threaded, 10-32 x 1	
9	10125108	NUT, Hex, #10-32	
10	10126403	WASHER, External Tooth Lock, #10	
11	93299001	CONNECTOR, 90° Angle	
12	95660411	TAPE, 2 Width Glass Cloth	
13	##	FILTER, RFI	
14	94208302	CAP, Tube	
15	95673184	SPACER, Thread	
16	77444700	SHIELD, Filter	
17	94277406	STRAP, Cable Tie	
18	93590200	SCREW, Self-Tapping Pan Head 8-32 x 3/8	
19		POWER CABLE ASSEMBLY (See Figure 3-25)	
20	15012421	BUSHING, Snap-in	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-18		POWER SUPPLY ASSEMBLY Rear (NON-VDE) (Contd)	
21	77447504	AC HARNESS ASSEMBLY	
22	##	TRANSFORMER, Ferro, (Alt2) (ATTACHING PARTS)	
	10125108	NUT, Hex, #10-32	
	10126403	WASHER, External Tooth Lock, #10	
	10125607	WASHER, Flat, #10 - - - * - - -	
23	94383501	SLIDE, Ball Bearing (ATTACHING PARTS)	
	93590196	SCREW, Self Thread, 8-32 x 1/4 - - - * - - -	
24	##	TRANSFORMER, Ferro, (Alt1) (ATTACHING PARTS)	
	10125108	NUT, Hex, #10-32	
	10126403	WASHER, Flat, #10	
	10125607	WASHER, Flat, #10 - - - * - - -	
25	##	TRANSFORMER ASSEMBLY 50/60 Hz (Alt3) (ATTACHING PARTS)	
	10125606	WASHER, Flat, #8	
	93590200	SCREW, Tapping Pan Head, Phillips 8-32 x 0.375 - - - * - - -	
26	95641708	CLAMP, Capacitor Hold Down (ATTACHING PARTS)	
	10125606	WASHER, Flat, #8	
	10126402	WASHER, External Tooth Lock, #8	
	93590198	SCREW, Self-Tapping Pan Head, 8-32 x 0.313 - - - * - - -	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-18		POWER SUPPLY ASSEMBLY Rear (NON-VDE) (Contd)	
27	##	RECTIFIER, Bridge	
28	10125106	NUT, Hex, #8-32	
29	10127125	SCREW, Pan Head Machine, 8-32 x 0.750	
30	##	CAPACITOR, 660 V ac (AlC1 & AlC2)	
31	95582501	BOOT, Double Entrance	
32	83229500	CABINET, Power Supply	
33	95667406	RESISTOR, 30 W, 10 Ω	
34	94237705	TRIM, Black Safety	
35	77444100	CLAMP, Power Amplifier Board	
36	10125105	NUT, Hex, #6-32	
37	10126103	WASHER, Internal Tooth Lock, #6	
38	10127112	SCREW, Pan Head Machine, 6-32 x 0.313	
39	10125606	WASHER, Flat, #6	
40	##	_ZCN COMPONENT ASSEMBLY, (See Figure 3-21)	
41	##	_YEN COMPONENT ASSEMBLY, (See Figure 3-20)	
42	10125607	WASHER, Flat, #10	
43	77449200	ROD, Capacitor Board	
44	94371301	SWITCH, AC 15A Solid State (AlQ5)	
		(ATTACHING PARTS)	
	10126401	WASHER, External Tooth Lock, #6	
	10127114	SCREW, Pan Head Machine, 6-32 x 0.500	
	10125105	NUT, Hex, #6-32	
		- - - * - - -	
45	94274101	TERMINAL, Quick Connect	
46	15012412	BUSHING, Snap-In	
47	94385500	GROMMET, Extruded	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-18		POWER SUPPLY ASSEMBLY Rear (NON-VDE) (Contd)	
48	94272333	TERMINAL BLOCK, Single Screw (ATTACHING PARTS)	
	10127115	SCREW, Pan Head Machine, 6-32 x 0.625	
	10126401	WASHER, External Tooth Lock, #6	
	10125105	NUT, Hex, #6-32	
	10125613	WASHER, Flat, #6 - - - * - - -	
49	##	CONTACTOR, 24 V dc (K6, K7, K8,) (ATTACHING PARTS)	
	10126402	WASHER, External Tooth Lock, #8	
	10125106	NUT, Hex, #8-32	
	10125606	WASHER, Flat, #8 - - - * - - -	
50	95595000	ADAPTER, Quick Connect	
51	94377500	STANDOFF, Nylon PC Board	
52	94277400	STRAP, Cable Tie	
53	77443200	COVER, Power Supply	
54	92006903	PLATE, Warning	
55	93592196	SCREW, Self-Tapping Hex Head, 8-32 x 0.250	
56	##	YFN COMPONENT ASSEMBLY,	
57	10127130	SCREW, Pan Head Machine, 10-24 x 0.313	
58	94001025	TAPE, Foam	
59	95641521	WASHER, Flat, #3/4	
60	10127126	SCREW, Pan Head Machine, 8-32 x 7/8	
61	92376014	NUT, Lock	

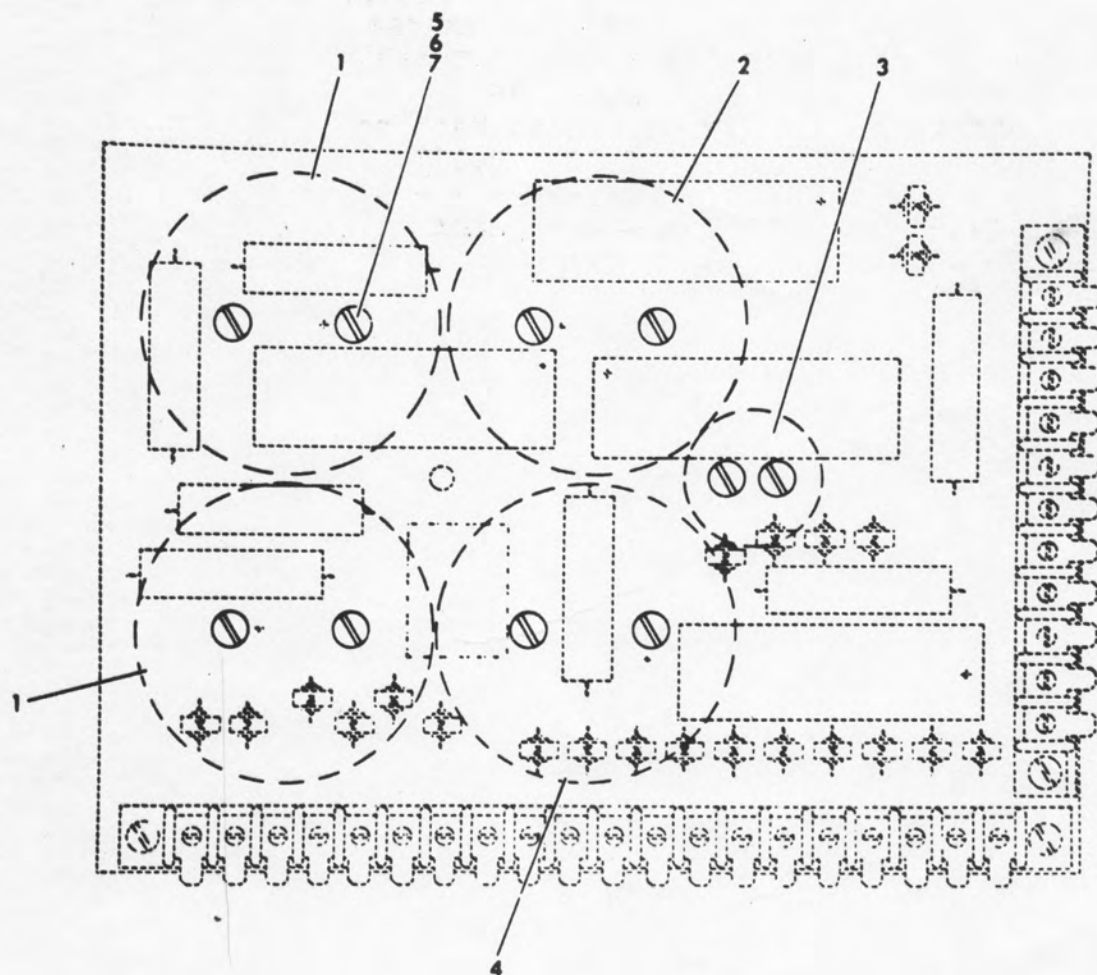


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Figure 3-19. Power Supply Assembly Front (NON-VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-19		POWER SUPPLY ASSEMBLY Front (NON-VDE)	
1	94383502	SLIDE, Ball Bearing (ATTACHING PARTS)	
	10126402	WASHER, External Tooth Lock, #8	
	93590196	SCREW, Self Tread, 8-32 x 1/4 - - - * - - -	
2	93643018	CONNECTOR, Corner Guide Socket	
3	77447701	DC HARNESS ASSEMBLY	
4	93643017	CONNECTOR, Corner Guide Pin	
5	93643020	CATCH, Connector	
6	24547559	PLATE, Warning	
7	93590196	SCREW, Self Thread, 8-32 x 1/4	
8	##	CIRCUIT BREAKER, 50 V dc 0.5 A (A1CB8)	+28 V
9	##	CIRCUIT BREAKER, 50 V dc 2 A (A1CB7)	±20 V
10	##	CIRCUIT BREAKER, 50 V dc 5 A (A1CB6)	-9.7 V
11	##	CIRCUIT BREAKER, 50 V dc 8 A (A1CB5)	+9.7 V
12	##	CIRCUIT BREAKER, 50 V dc 7 A (A1CB4)	±46 V
13	##	CIRCUIT BREAKER, 240 V ac 50 A (A1CB3)	Drive Motor
14	##	CIRCUIT BREAKER, 250 V dc 0.375 A, (A1CB2) (ATTACHING PARTS) For Index Nos 8 Thru 14)	+20Y
	10126103	WASHER, Internal Tooth Lock, #6	
	93749158	SCREW, Pan Head Machine, 6-32 x 0.187 - - - * - - -	
15	##	SWITCH, Toggle	
16	##	METER, AC Hour	
17	17901502	SCREW, Pan Head Machine, 4-40 x 3/8	
18	95644003	JACK, Banana	
19	95524408	WASHER, Lock, #10	

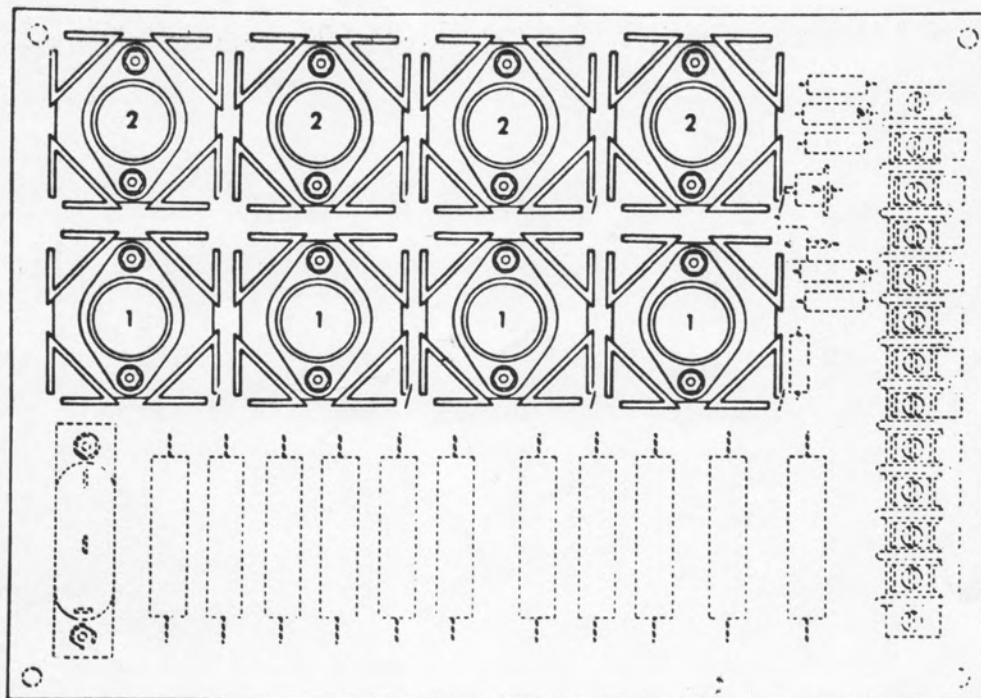
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-19		POWER SUPPLY ASSEMBLY Front (NON-VDE) (Contd)	
20	##	CIRCUIT BREAKER, (A1CB1) (AC Main Power) (ATTACHING PARTS)	
	10126103	WASHER, Internal Tooth Lock, #6	
	93749158	SCREW, Pan Head Machine, 6-32 x 0.187 - - - * - - -	
21	76416500	TERMINAL, Insulator	
22	95644001	JACK, Banana	
23	95644000	JACK, Banana	



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Figure 3-20. Component Assembly, Type_YEN

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-20	##	-YEN COMPONENT ASSEMBLY	NON-VDE Only
1	94384000	CAPACITOR, Electrolytic (C7 & C8)	
2	94384001	CAPACITOR, Electrolytic (C9)	
3	95661319	CAPACITOR, 15 V dc (AlC5)	
4	94384002	CAPACITOR, Electrolytic (C6)	
5	93903356	EYELET, Rolled Flange	
6	10127143	SCREW, Pan Head Machine, 10-32 x 0.500	
7	95524408	WASHER, Internal Tooth Lock, #10	



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Figure 3-21. Component Assembly, Type _ZCN

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-21	##	ZCN COMPONENT ASSEMBLY	NON-VDE & VDE
1	##	TRANSISTOR, NPN Silicon Power	
2	##	TRANSISTOR, PNP Silicon Power	

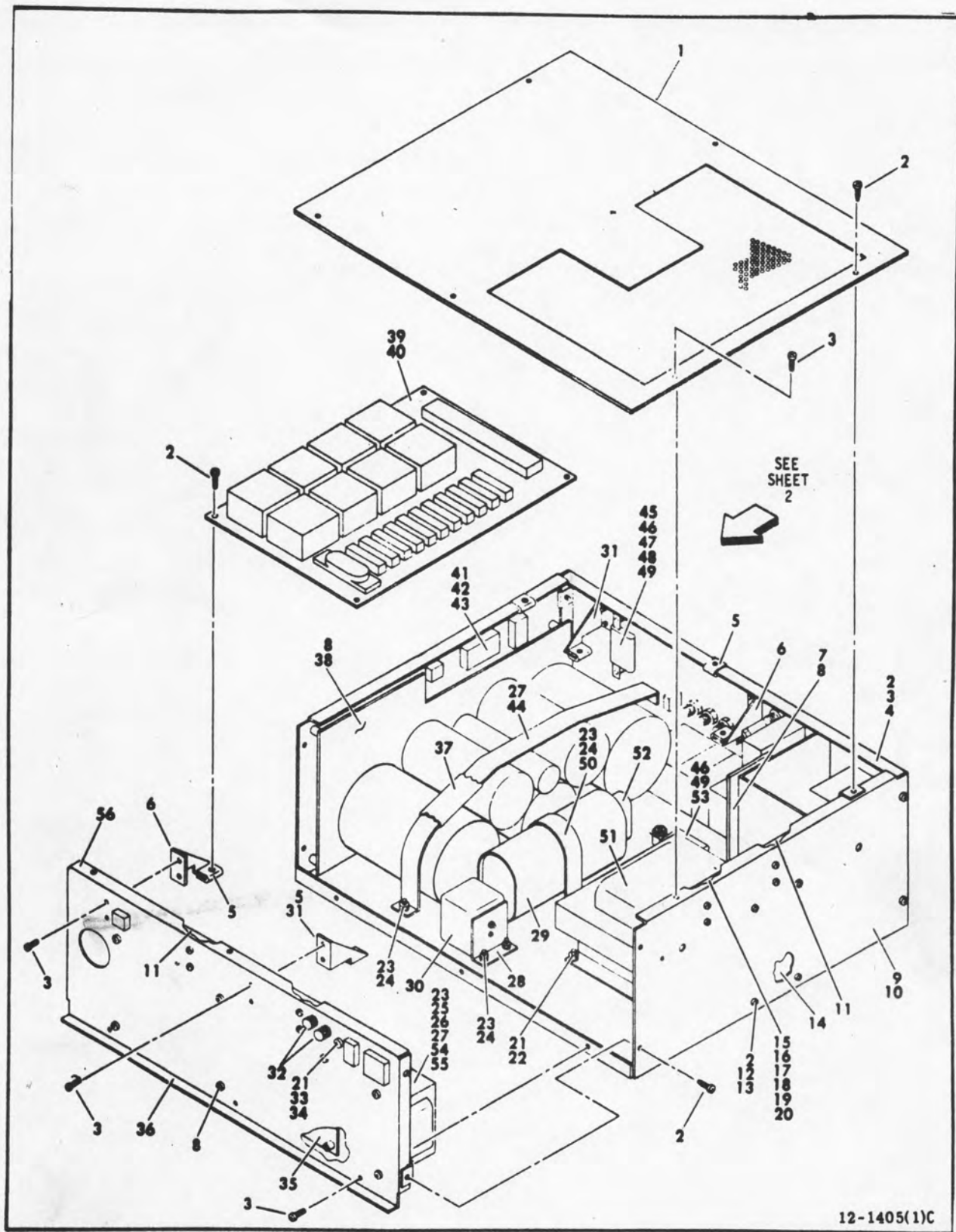


Figure 3-22. Power Supply Assembly Rear (VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-22	##	POWER SUPPLY ASSEMBLY Rear (VDE)	
1	70106102	COVER, Power Supply	
2	95655516	SCREW, Sheet Metal, 6-20 x 3/8	
3	17901509	SCREW, Thread Roll Phillips 6-32 x 3/8	
4	70106402	PANEL, Front	
5	95634816	NUT, Speed U Type	
6	76876201	BRACKET, P.C. Card	
7	##	FNN COMPONENT ASSEMBLY	
8	93749160	SCREW, Pan Head Machine Phillips, 6-32 x 5/16	
9	70106202	CHASSIS	
10	94397658	PANEL, Acoustical Foam	
11	##	FUSE, Cartridge, 1 Amp	
12	95634809	NUT, Speed U Type	
13	95524409	WASHER, Internal Tooth Lock #8	
14	##	FILTER, RFI 115-275 V ac 20A	
15	51785403	FUSE BLOCK, 3 AG Quick Connect	
16	10127104	SCREW, Pan Head Machine, 4-40 x 3/8	
17	95641502	WASHER, Flat	
18	10126101	WASHER, Internal Tooth Lock #4	
19	95510024	NUT, Hexagon Machine	
20	##	FUSE, Cartridge, 8 Amp	
21	10126403	WASHER, External Tooth Lock #10	
22	92376014	NUT, Self-Locking #10-32	
23	10125105	NUT, Hexagon Machine, #6-32	
24	10126103	WASHER, Internal Tooth Lock #6	
25	##	TRANSFORMER, Ferro (Alt1)	
26	95655517	SCREW, Sheet Metal, 6-20 x 1/2	
27	95634801	NUT, Speed U-Type	
28	76879600	BRACKET, Relay	
29	##	CAPACITOR, 660 V ac	
30	##	RELAY PLUG, 11 Pin Relay	
31	76876200	BRACKET, P.C. Card	
32	##	CIRCUIT BREAKER	
33	10125108	NUT, Hexagon Machine, #10-32	
34	10127143	SCREW, Pan Head Machine, 10-32 x 1/2	
35	##	CFN COMPONENT ASSEMBLY	
36	70106303	PANEL, Back	
37	94001053	TAPE, Foam	
38	##	CBN COMPONENT ASSEMBLY (See Figure 3-24)	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
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3-22 POWER SUPPLY ASSEMBLY Rear (VDE)
(Contd) .

39	95668900	GROMMET	
40	##	_ZCN COMPONENT ASSEMBLY (See Figure 3-21)	
41	93643020	CONNECTOR, Catch	
42	93643004	CONNECTOR, Corner Guide Pin	
43	93643005	CONNECTOR, Corner Guide Socket	
44	70106000	BRACKET, Capacitor	
45	95667407	RESISTOR, 30 W, 15Ω	
46	10125106	NUT, Hexagon Machine, #8-32	
47	10127125	SCREW, Pan Head Machine Phillips, 8-32 x .750	
48	95641506	WASHER, Flat, #8	
49	10126104	WASHER, Internal Tooth Lock #8	
50	70105300	CLAMP, Capacitor	
51	##	TRANSFORMER, Ferro (Alt2)	
52	95582501	BOOT, Double Entrance	
53	95667405	RESISTOR, 30 W, 7.5Ω	
54	10127113	SCREW, Pan Head, 6-32 x 3/8	
55	10126401	WASHER, External Tooth Lock, #6	
56	95051043	INSULATION	
	70112300	AC INPUT HARNESS ASSEMBLY	
	70120400	DC HARNESS ASSEMBLY	
	70108000	AC1 HARNESS ASSEMBLY	
	70117201	AC2 HARNESS ASSEMBLY	

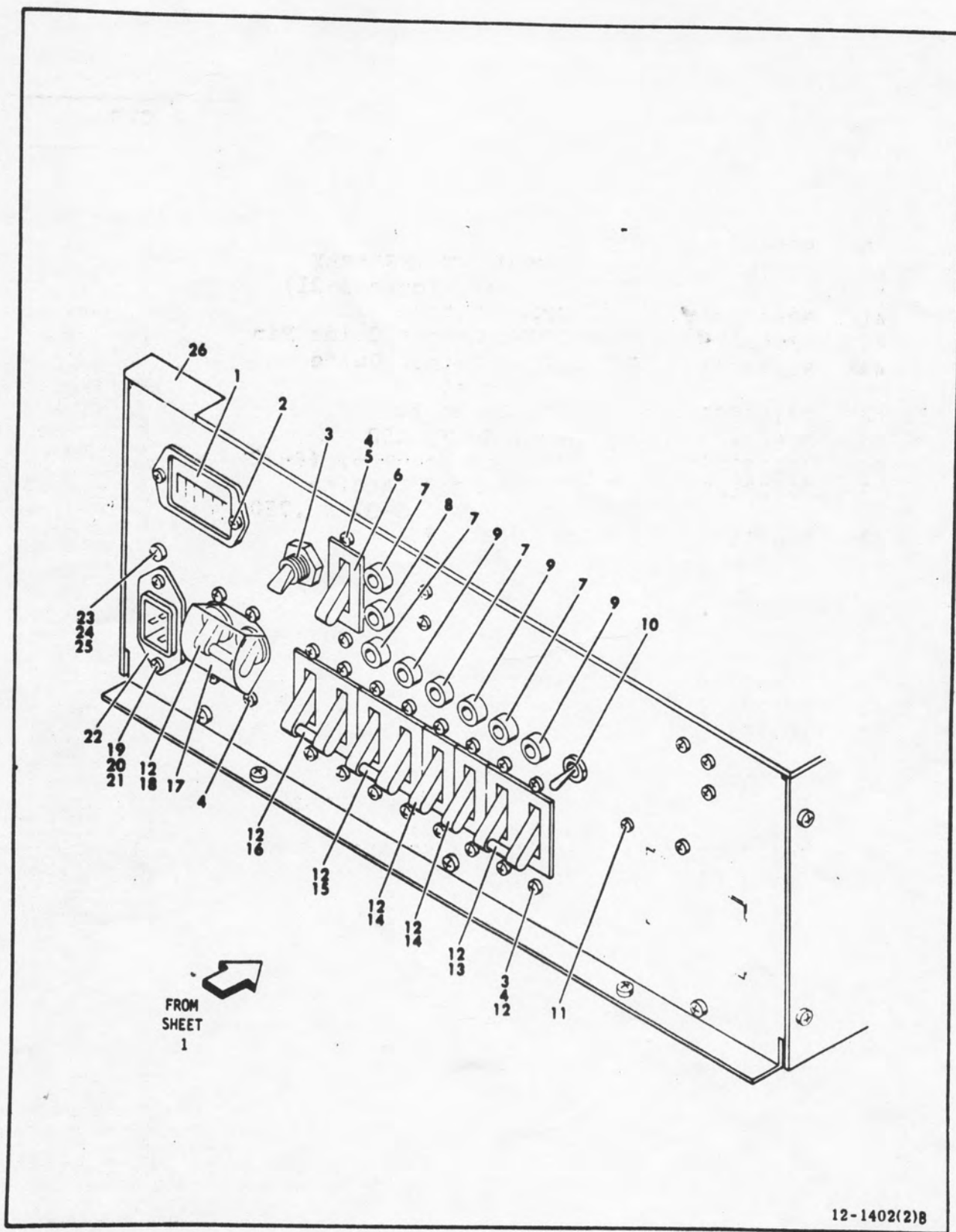
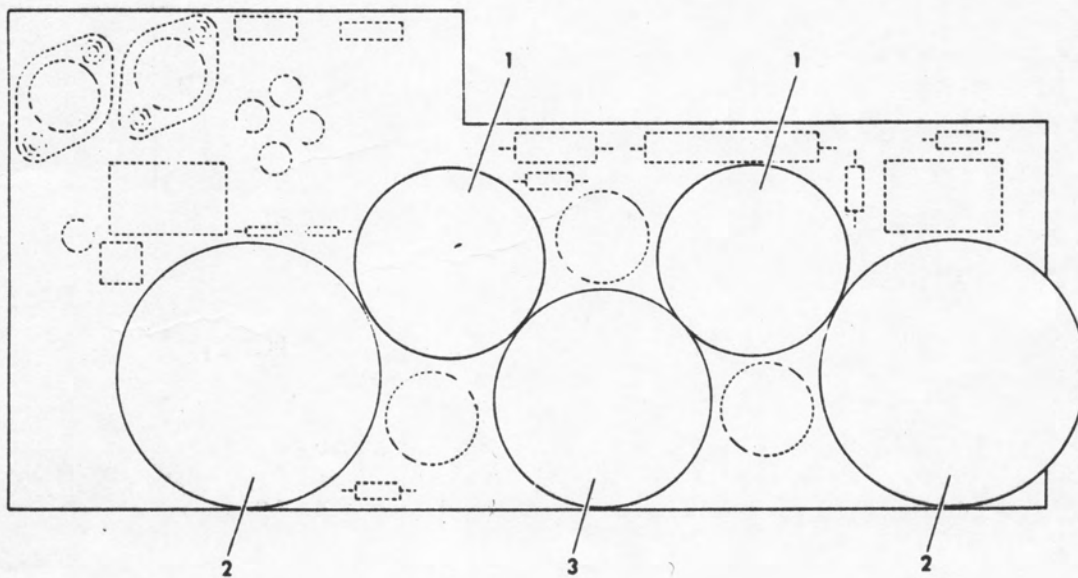


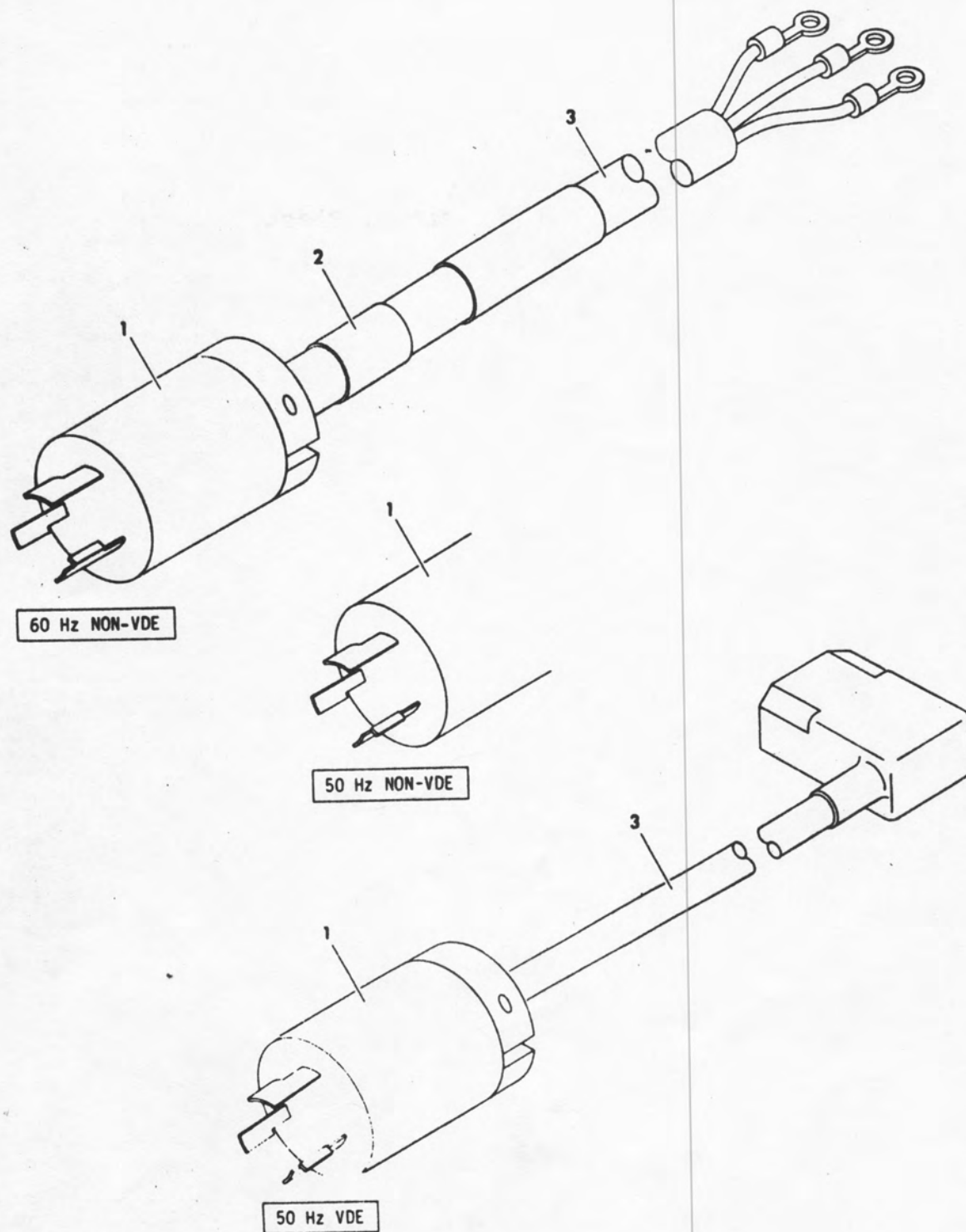
Figure 3-23. Power Supply Assembly Front (VDE)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-23		POWER SUPPLY ASSEMBLY Front (VDE)	
1	##	METER, Time Elapsed	
2	17901509	SCREW, Thread Roll, Phillips 6-32 x 3/8	
3	##	CIRCUIT BREAKER, 0.50A (AlCB2)	
4	93749158	SCREW, Pan Head Machine Phillips, 6-32 x 1/4	
5	95524408	WASHER, Internal Tooth Lock #10	
6	##	CIRCUIT BREAKER, 0.5A (AlCB3)	
7	95644000	JACK, Banana	
8	95644001	JACK, Banana	
9	95644003	JACK, Banana	
10	##	SWITCH, Toggle	
11	95655517	SCREW, Sheet Metal, 6-20 x 1/2	
12	76416500	INSULATOR, Terminal	
13	##	CIRCUIT BREAKER, 1.0A (AlCB8)	
14	##	CIRCUIT BREAKER, 10A (AlCB 6&7)	
15	##	CIRCUIT BREAKER, 7A (AlCB5)	
16	##	CIRCUIT BREAKER, (AlCB4)	
17	92017900	BOOT, Protective Circuit Breaker	
18	##	CIRCUIT BREAKER, 20.0 (AlCB1)	
19	10126101	WASHER, Internal Tooth Lock #4	
20	10127104	SCREW, Pan Head Machine, 4-40 x 3/8	
21	10125103	NUT, Hexagon Machine, 4-40	
22	51870400	RECEPTACLE, Power A.C. 3-pin	
23	10126401	WASHER, External Tooth Lock #6	
24	10127114	SCREW, Pan Head Machine, 6-32 x 1/2	
25	10125105	NUT, Hexagon Machine, 6-32	
26	95660407	TAPE, Insulating	



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INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-24	##	CBN COMPONENT ASSEMBLY	VDE ONLY
1	95661307	CAPACITOR, 15 V dc.	
2	12117910	CAPACITOR, 50 V dc	
3	12117906	CAPACITOR, Aluminum, Elect	



12-1503A

Figure 3-25. Power Cable Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-25	70734116	POWER CABLE ASSEMBLY	60 Hz
3-25	70734115	POWER CABLE ASSEMBLY	50 Hz NON-VDE
3-25	70734120	POWER CABLE ASSEMBLY	50 Hz VDE
1	##	CONNECTOR, 3-Wire Locking	60 Hz
1	##	CONNECTOR, 3-Wire Locking	50 Hz
2	93154151	TUBING, Heat Shrink	
3	10124004	CABLE, Power	NON-VDE
3	75168300	CORD, Power	VDE
4	93541028	TERMINAL, Ring Tongue	NON-VDE

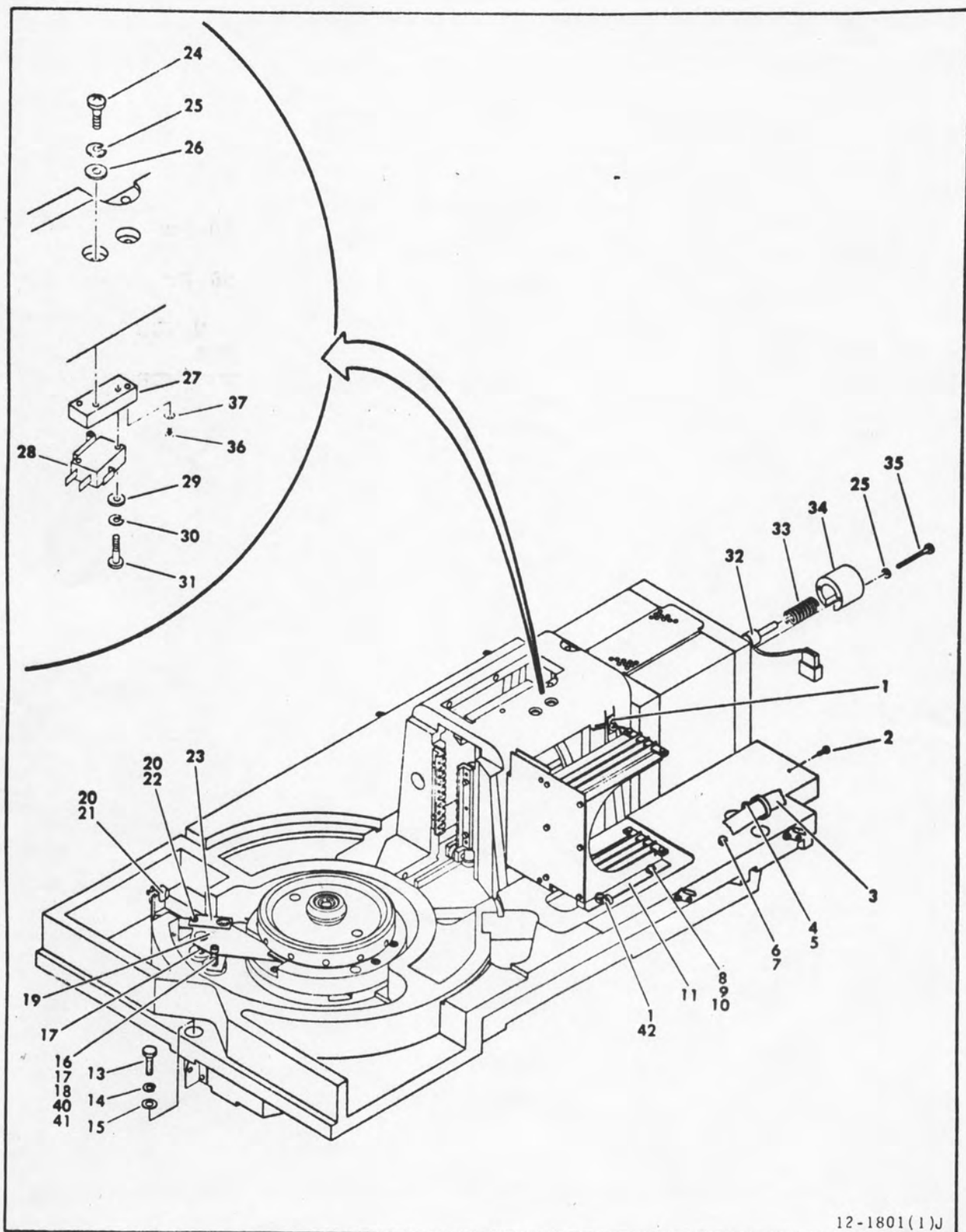


Figure 3-26. Deck Assembly (Sheet 1 of 3)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-26	774458XX	DECK ASSEMBLY (Sheet 1 of 3)	
1	94277400	STRAP, Cable Tie	
2	93592162	SCREW, Self-Tapping Hex Head, 6-32 x 0.375	
3	77448401	MAIN HARNESS ASSEMBLY, Shielded	NON-VDE
3	77448402	MAIN HARNESS ASSEMBLY, Shielded	VDE
4	94277406	STRAP, Cable Tie	
5	93592202	SCREW, Self-Tapping Hex Head, 8-32 x 0.375	
6	10126402	WASHER, External Tooth Lock, #8	
7	93592200	SCREW, Tapping Hex Head, 8-32 x 0.375	
8	10127131	SCREW, Pan Head Machine 10-24 x 0.375	
9	10125607	WASHER, Flat, #10	
10	10126105	WASHER, Internal Tooth Lock, #10	
11		R/W CHASSIS ASSEMBLY (See Figure 3-29)	
12		NOT USED	
13	10126504	SCREW, Hex Head, 1/4-20 x 1	
14	10125806	WASHER, Spring Lock, #1/4	
15	10125608	WASHER, Snap-In	
16	94347111	WASHER, Shoulder, Nylon	
17	94205793	SPRING, Compression	
18	93707005	SCREW, Shoulder Socket Head 10-24 x 1 3/8 (1 in. shoulder)	
19	76405000	PLATE, Brake	
20	10125105	NUT, Hex, #6-32	
21	75006600	BUTTON, Brake	
22	93073250	SCREW, Socket Set, 6-32 x 0.500	
23	47181300	BRACKET, Parking Brake	
24	10127124	SCREW, Pan Head Machine, 8-32 x 0.625	
25	10125804	WASHER, Spring Lock, #4	
26	10125606	WASHER, Flat, #8	
27	77437900	MOUNT, Switch	

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-26	774458XX	DECK ASSEMBLY (Contd)	
28	##	SWITCH, Mini Integral Actuator (Heads Loaded (A3S6)	
29	10125603	WASHER, Flat, #4	
30	10125801	WASHER, Spring Lock, #4	
31	10127106	SCREW, Pan Head Machine, 4-40 x 0.625	
32		TRANSDUCER AND CONNECTOR ASSEMBLY (See Figure 3-28)	
33	94206431	SPRING, Compression	
34	70726001	CAP, End Transducer	
35	10127353	SCREW, Pan Head Machine 4-40 x 0.625	
36	10127102	SCREW, Pan Head Machine 4-40 x 1/4	
37	10126400	WASHER, External Tooth Lock, #4	
38		NOT USED	
39		NOT USED	
40	10126401	WASHER, Lock External Tooth, 6	
41	94047033	WASHER, Special	
42	94277503	BASE, Mounting	S/C 26 & Above only

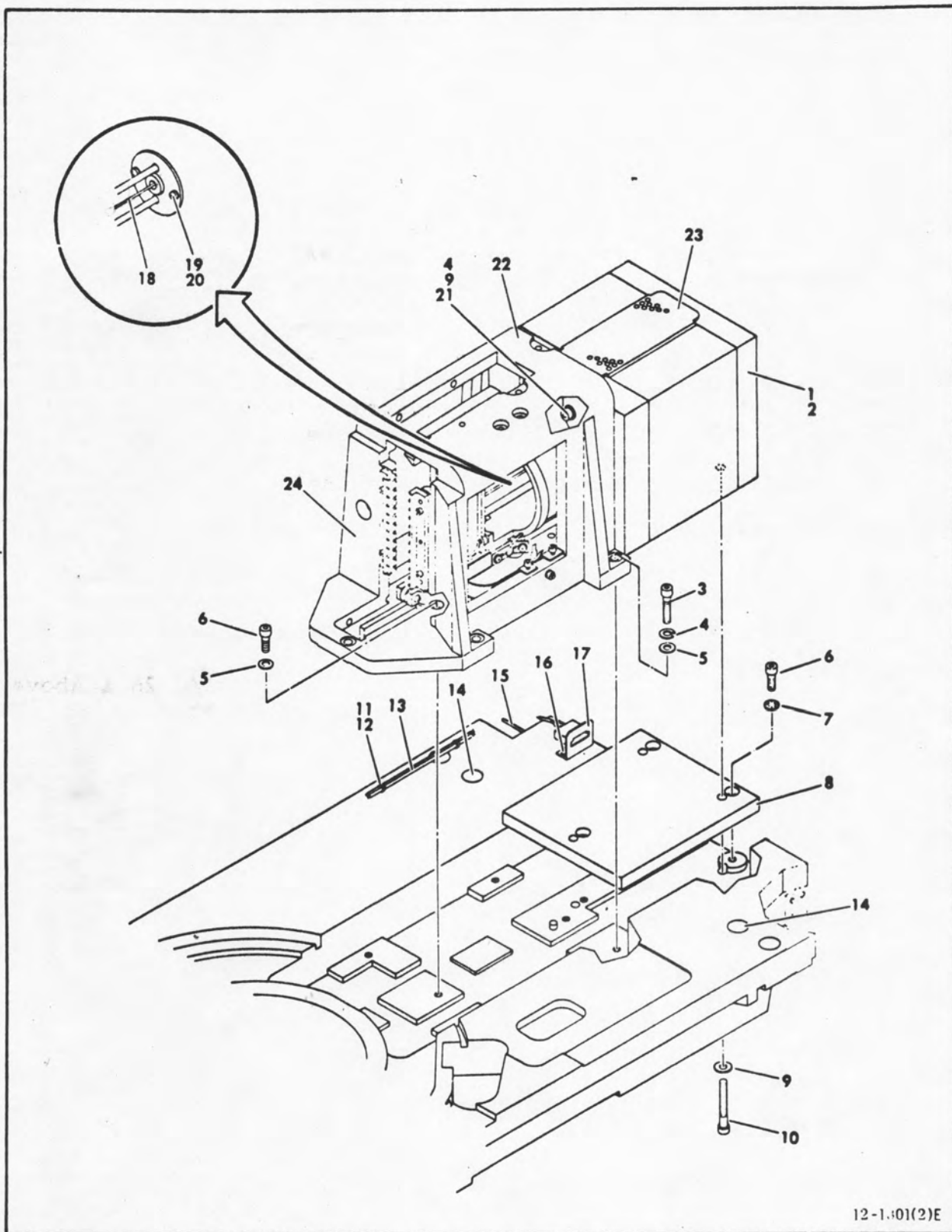
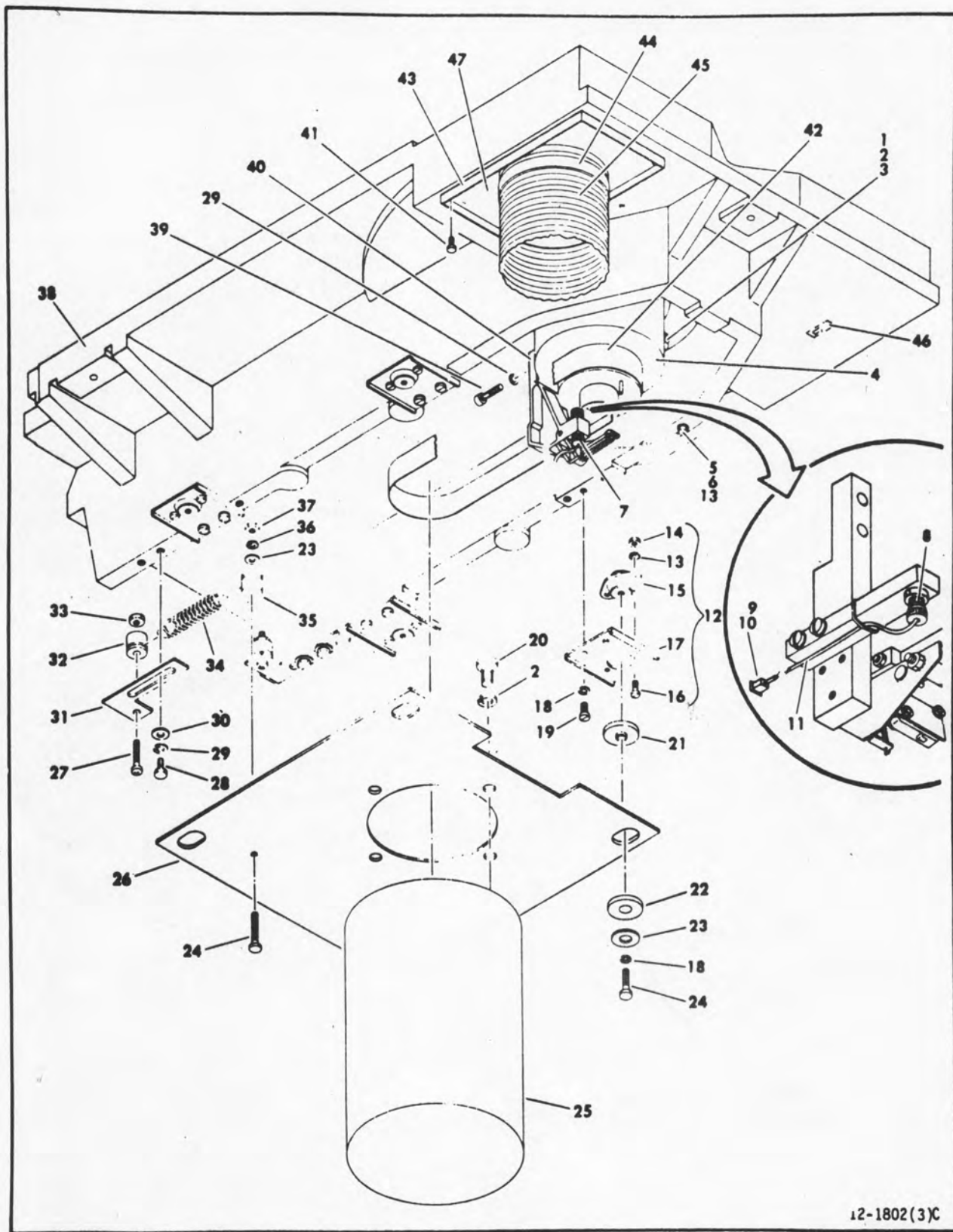


Figure 3-26. Deck Assembly (Sheet 2)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-26		DECK ASSEMBLY (Sheet 2)	
1	77829301	MAGNET ASSEMBLY	
2	95027403	TAPE, Foam	
3	10126259	SCREW, Cap Head Hex Socket 1/4-20 x 0.250	
4	10125806	WASHER, Spring Lock, #1/4	
5	94047033	WASHER, Internal Tooth Lock, #1/4	
6	10126256	SCREW, Cap Head Hex Socket 1/4-20 x 0.750	
7	10126106	WASHER, Internal Tooth, Lock, #1/4	
8	77441600	SPACER, Magnet	
9	10125608	WASHER, Flat, #1/4	
10	93117874	SCREW, Cap Head Hex Socket, 1/4-20 x 2	
11	94277406	STRAP, Cable Tie	
12	93592202	SCREW, Self-Tapping Hex Head, 8-32 x 0.500	
13	77452601	MAIN HARNESS ASSEMBLY, Unshielded	NON-VDE
13	77452607	MAIN HARNESS ASSEMBLY Unshielded	VDE
14	94353212	CAPS and Plugs, Plastic	
15	93532207	PIN, Roll	
16	72823900	BRACKET, 3 Pin Connector	
17	93592196	SCREW, Self-Tapping Hex Head, 8-32 x 0.250	
18	70729304	ROD, Extrusion	
19	10127133	SCREW, Pan Head Machine, 10-24 x 0.625	
20	10126105	WASHER, Internal Tooth Lock, #10	
21	10126260	SCREW, Cap Head Hex Socket, 1/4-20 x 0.500	
22		ACTUATOR ASSEMBLY (See Figure 3-30)	
23	46484001	COVER, Magnet	
24	##	COMPONENT ASSEMBLY, Type _ZGN	

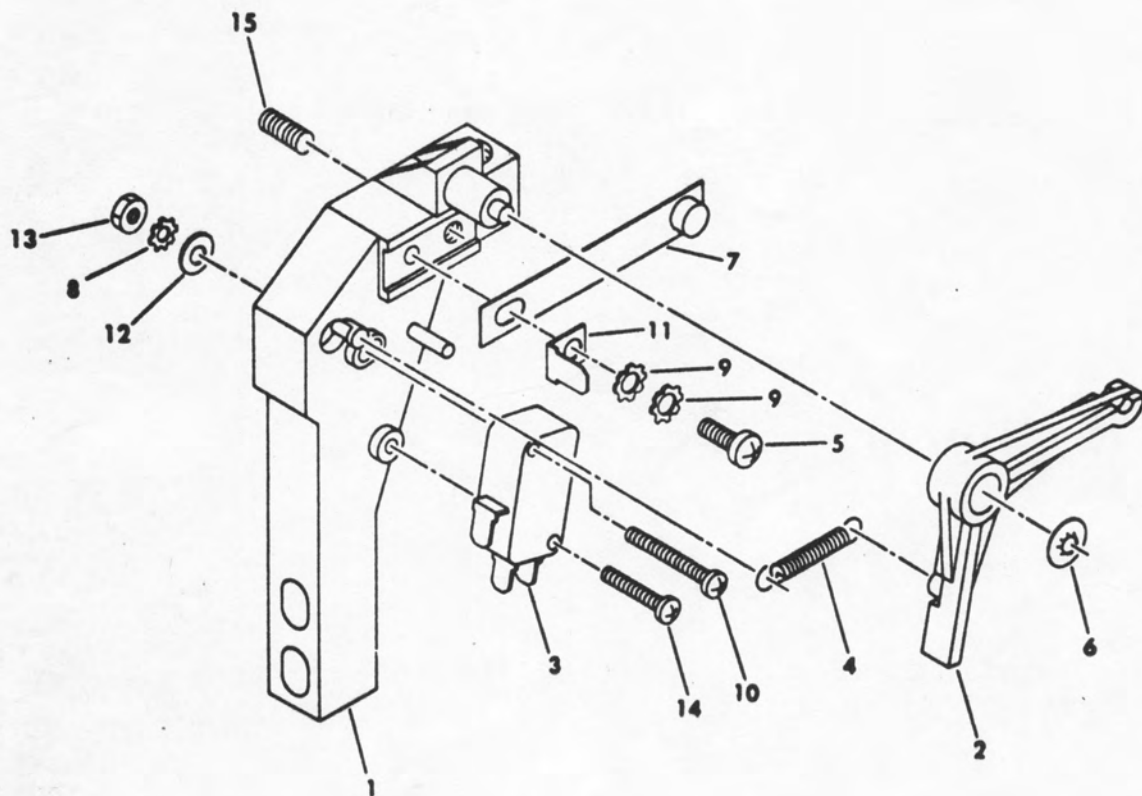


12-1802(3)C

Figure 3-26. Deck Assembly (Sheet 3 of 3)

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-26		DECK ASSEMBLY (Sheet 3)	
1	10126533	SCREW, Hex Head Plain, 3/8-16 x 1.750	
2	10125808	WASHER, Spring Lock, #3/8	
3	10125610	WASHER, Flat, #3/8	
4	##	SPINDLE ASSEMBLY (See Figure 3-31)	
5	93592200	SCREW, Tapping, Hex Head, 8-32 x 0.375	
6	94281419	CABLE, Ground	
7	##	SPEED SENSOR ASSEMBLY	
8	93552012	HEAD, Magnet Pickup	
9	93948004	CONNECTOR, Pin Housing	
10	93942022	CONTACT, Pin	
11	92261011	TUBING, Teflon	
12	47276900	SHOCK MOUNT ASSEMBLY	NON-VDE & 50 Hz units S/C 28 & Above w/ 13047 and earlier units w/ 13047
13	10126402	WASHER, External Tooth Lock, #8	
14	10125106	NUT, Hex, #8-32	
15	94243003	MOUNT, Shock	
16	10127348	SCREW, Pan Head Machine, 8-32 x 0.500	
17	76376201	BRACKET, Shock Mount	VDE & 50 Hz units S/C 27 & Below w/o 13047
18	10125805	WASHER, Spring Lock, #10	
19	10127380	SCREW, Pan Head Machine 10-32 x 0.500	
20	10126528	SCREW, Hex Head Plain, 3/8-16 x 0.750	
21	77448001	SPACER, Motor Mount	50/60 Hz units 50 Hz units S/C 28 & Above w/ 13047 and earlier units w/ 13047
22	70738305	INSULATOR, Motor Mount	NON-VDE
22	70738307	INSULATOR, Motor Mount	VDE & 50 Hz units S/C 27 & Below w/o 13047
23	10125607	WASHER, Flat, #10	
24	10125067	SCREW, Hex Head Machine	
25	##	DRIVE MOTOR AND PULLEY ASSEMBLY	
26	77448100	PLATE, Motor Mounting	NON-VDE

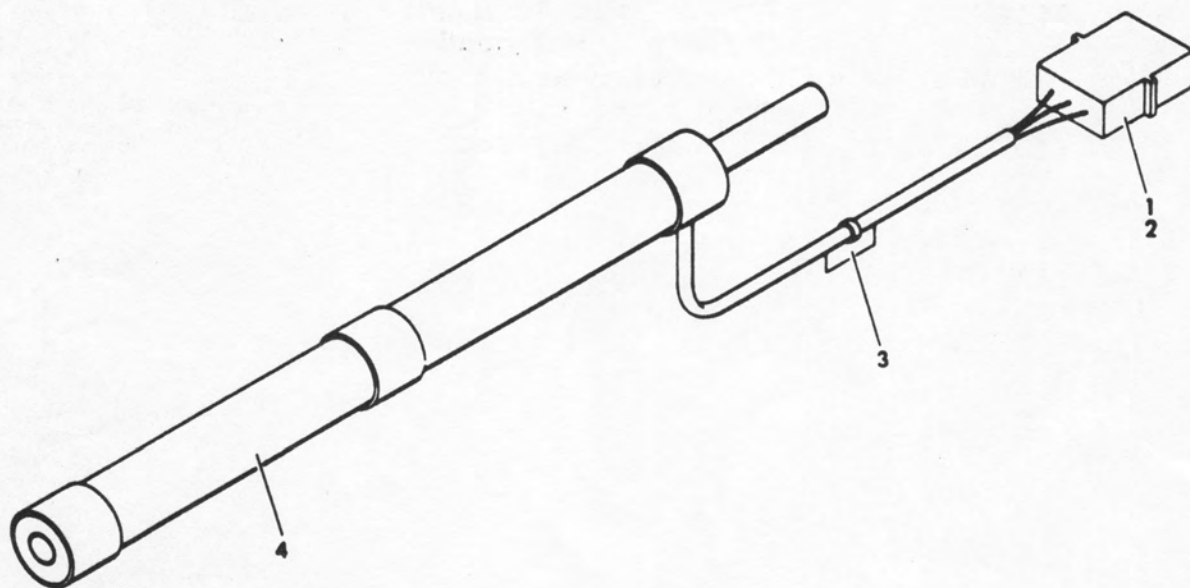
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-26		DECK ASSEMBLY (Contd)	
26	47424801	PLATE, Motor Mounting	VDE & 50 Hz units S/C 27 & Below w/o 13047
27	10127158	SCREW, Pan Head Machine, 1/4-20 x 1.250	
28	10126500	SCREW, Pan Head Machine, 1/4-20 x 0.500	
29	10125806	WASHER, Spring Lock, #1/4	
30	10125608	WASHER, Flat, #1/4	
31	75093400	BRACKET, Spring Mounting Plate	
32	72806502	STANDOFF, Spring	
33	92071004	NUT, Hex, #1/4-20	
34	77530000	SPRING, Extension	
35	72806500	STANDOFF, Spring	
36	10126403	WASHER, External Tooth Lock, #10	
37	10125108	NUT, Hex, #10-32	
38	83242100	DECK	
39	10126258	SCREW, Cap Head Hex Socket, 1/4-20 x 1.00	
40	##	PACK SENSOR ASSEMBLY (See Figure 3-27	
41	00860304	SCREW, Hex Head, 6-32 x 0.500	
42	##	BELT, Flat Drive	
43	83640800	ADAPTER, Deck Hose	
44	94202331	CLAMP, Self-Tightening	
45	94311604	HOSE, Flexible	
46	94277503	BASE, Mounting	
47	76579106	GASKET, Air Seal	S/C 24 & Above Only



12-1901B

Figure 3-27. Pack Sensor Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-27	##	PACK SENSOR ASSEMBLY	
1	83282900	BASE, Spindle End Pack-On Switch	
2	83282800	ACTUATOR, Pack-On Switch	
3	##	SWITCH, Mini Integral Actuator	
4	83283900	SPRING, Extension	
5	93590162	screw, Pan Head Phillips, 6-32 x 3/8	
6	94241401	FASTENER, Bolt Retainer	
7	##	SPRING, Static Ground	
8	10126400	WASHER, External Tooth Lock, #4	
9	10126401	WASHER, External Tooth Lock, #6	
10	10127108	SCREW, Pan Head Machine, 4-40 x 7/8	
11	94274107	TERMINAL, Quick Connect	
12	10125103	WASHER, Flat, #4	
13	10125103	NUT, Hex Machine, #4-40	
14	93590090	SCREW, Self-Threading, 4-40 x 5/8	
15	93061288	SCREW, Socket Head Set, 8-32 x 3/8	



12-2000A

Figure 3-28. Transducer and Connector Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
-------------	------------	------------------	------

3-28	##	TRANSDUCER AND CONNECTOR ASSEMBLY	
1	93948003	CONNECTOR, 3 Pin Housing (A3P4)	
2	93942015	CONTACT, Pin	
3	94277409	STRAP, Cable Tie	
4	73585001	TRANSDUCER HOUSING ASSEMBLY	

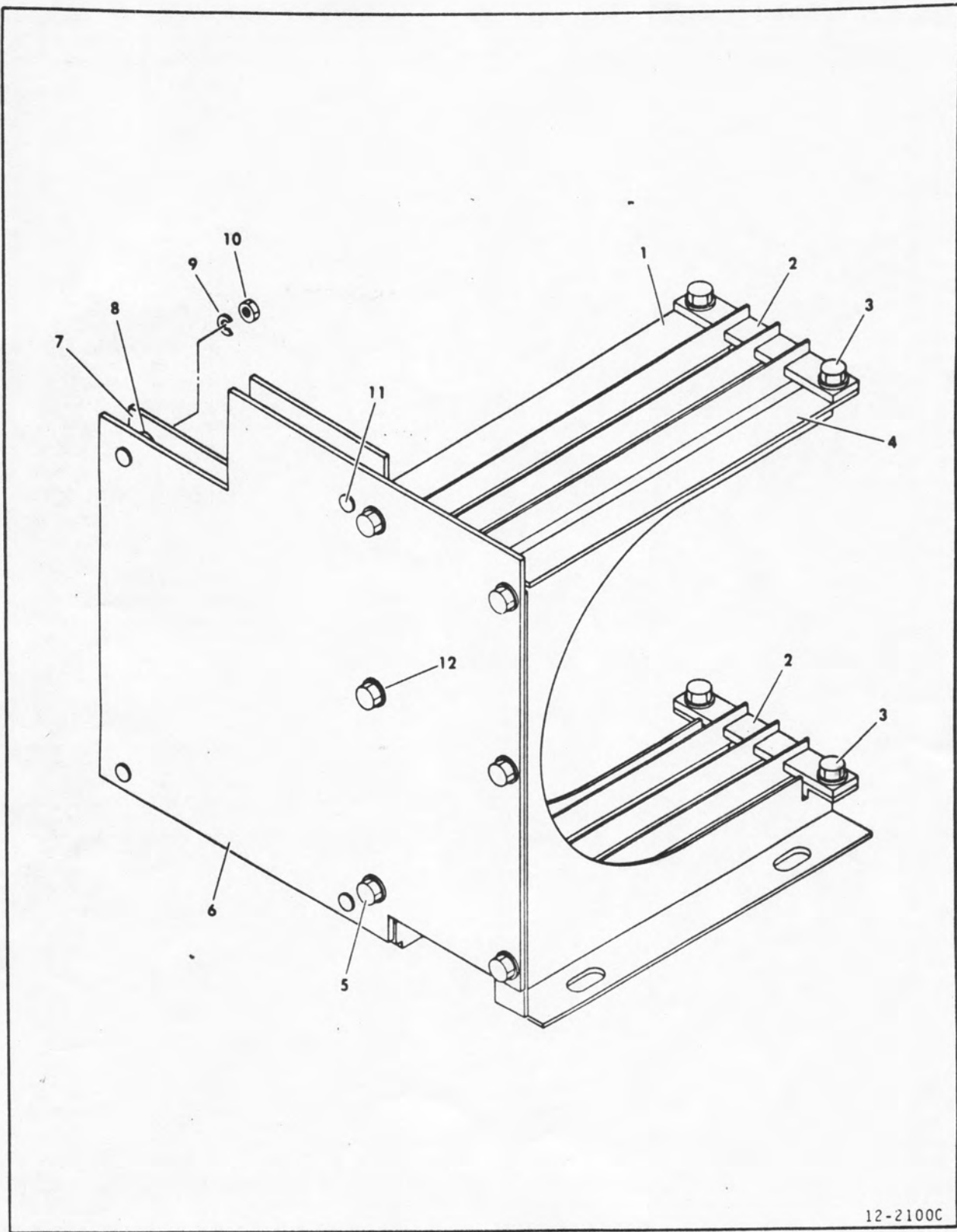
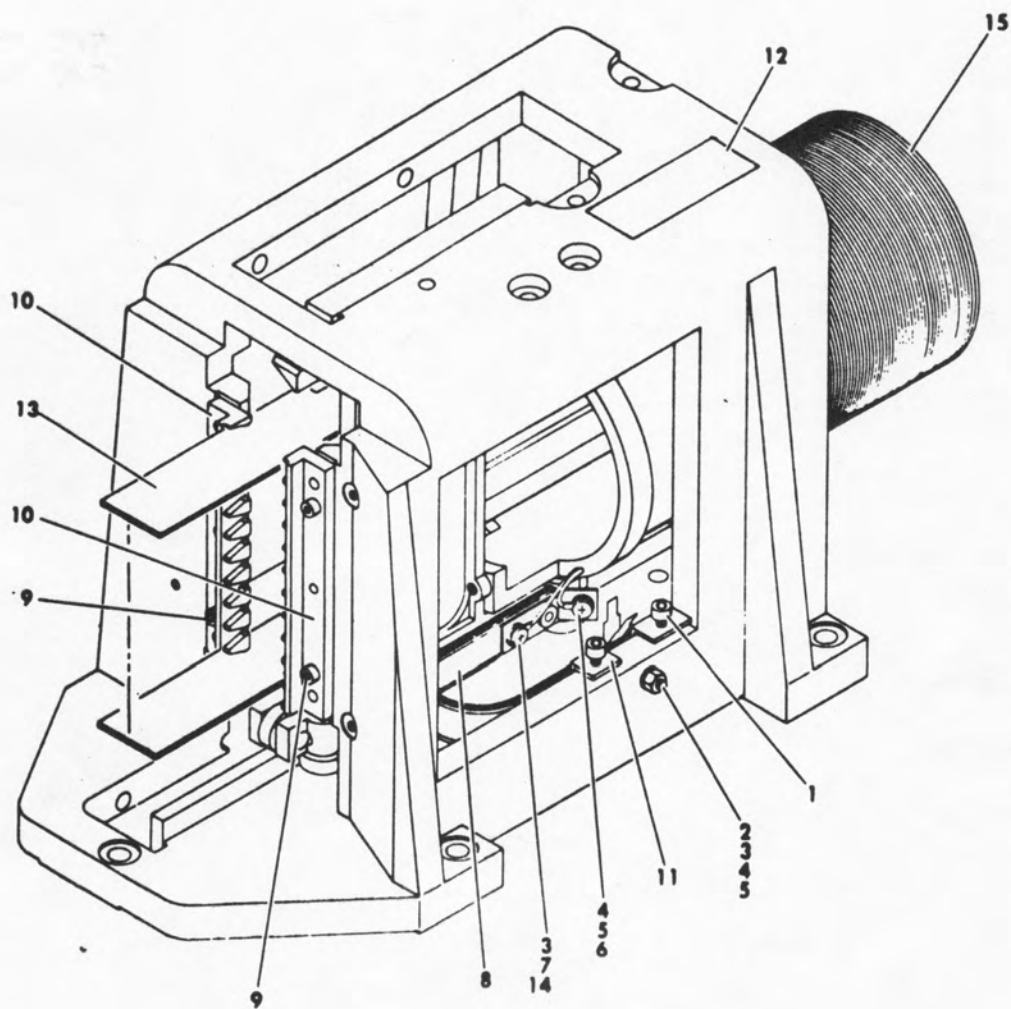


Figure 3-29. Read/Write Chassis Assembly

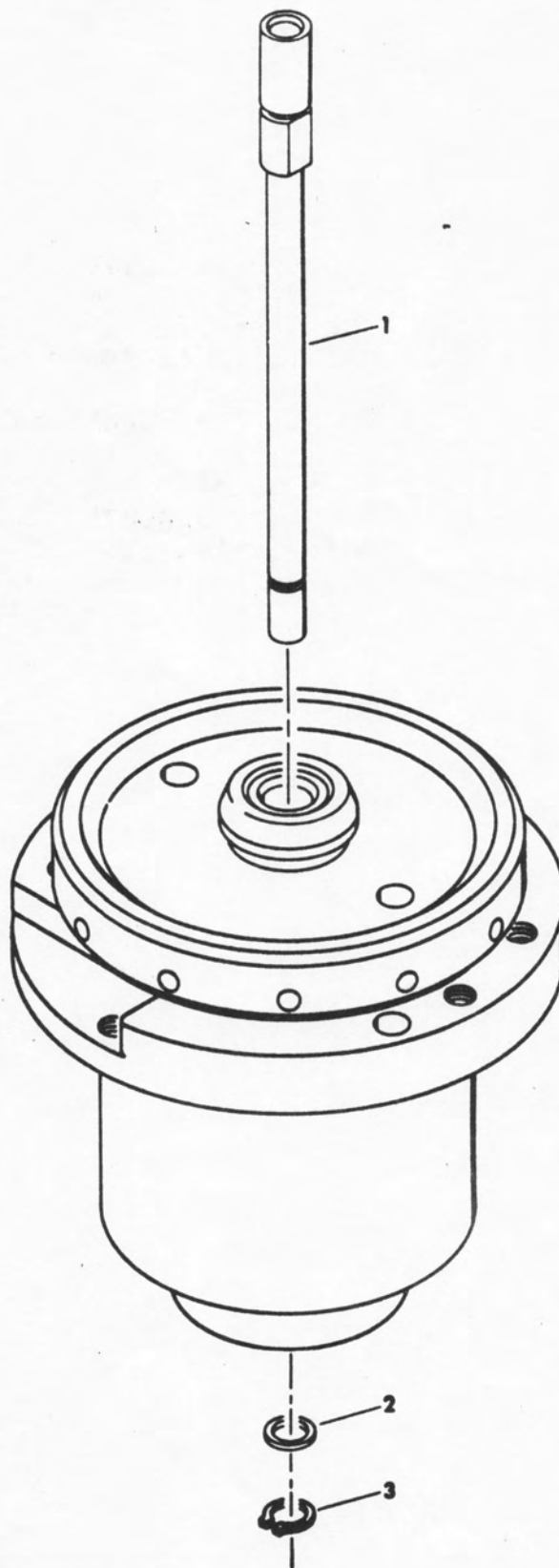
INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-29	77445901	READ/WRITE CHASSIS ASSEMBLY	S/C 25 & Below
3-29	77445903	READ/WRITE CHASSIS ASSEMBLY	S/C 26 & Above
1	77443000	SUPPORT, Chassis	
2	77442000	RAIL, Guide	
3	93592200	SCREW, Self-Tapping Hex Head, 8-32 x 0.375	
4	93543001	SUPPORT, Chassis	S/C 25 & Below
4	93543002	SUPPORT, Chassis	S/C 26 & Above
5	93592196	SCREW, Self-Tapping Hex Head, 8-32 x 0.250	
6	##	_XFN COMPONENT ASSEMBLY	
7	##	_XGN COMPONENT ASSEMBLY	
8	93109202	STANDOFF, Round Spacer	
9	10125801	WASHER, Spring Lock, #4	
10	10125103	NUT, Hex, #4-40	
11	93114301	STANDOFF	
12	94047042	WASHER, Flat, #8	



12-22000

Figure 3-30. Actuator Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-30	##	ACTUATOR ASSEMBLY	
1	10126224	SCREW, Cap Head Hex Socket, 8-32 x 0. 250	
2	94350503	SCREW, Insulated, 6-32 x 1.120	
3	93564032	WASHER, Nylon	
4	10124105	NUT, Hex, #6-32	
5	10125103	WASHER, Internal Tooth Lock, #6	
6	10127112	SCREW, Pan Head Machine, 6-32 x 0.313	
7	94350501	SCREW, Insulated, 6-32 x 0.375	
8	##	CONDUCTOR, Flexible	
9	10126218	SCREW, Cap Head Hex Socket, 6-32 x 0.375	
10	##	CAM, Tower	
11	76046400	BRACKET, Coil Leads	
12	94224671	LABEL, Caution Information	
13	##	HEAD ARM ASSEMBLIES (ATTACHING PARTS)	
	##	SCREW, Head Arm	
14	92602001	CLAMP, Nylon Cable	
15	##	COIL ASSEMBLY	



12-2300A

Figure 3-31. Spindle Assembly

INDEX NO	PART NO	PART DESCRIPTION	NOTE
3-31	##	SPINDLE ASSEMBLY	
1	##	LOCKSHAFT, Spindle	
2	73476503	WASHER, 0.040	
3	92033301	RING, Retaining	

SPARE PARTS LIST

3B

GENERAL

The Spare Parts List serves as an aid in determining the interchangeability of assemblies and parts to be spared. An example of the columns used in the Spare Parts List is shown on the next page.

NOTE

The spare parts list establishes the support service level of the unit. Individual parts, assemblies, or components not on this list may be long lead time items subject to significant delays.

The Spare Parts List is divided into four columns:

Items Appear On - This column cross-references the part number in the spare

parts list to the associated figure number, page number, and index number in the illustrated parts breakdown.

Description - This column gives the name and a brief description of the part or assembly. This column also tracks series code history information.

Part Number and Replacement Part Number - These columns provide an eight-digit number. The difference between the two columns is that the Part Number column gives all the possible part numbers used for a particular part or assembly, while the Replacement Part Number column gives the interchangeable spare part number.

Notes - This column provides additional information such as Field Change Order (FCO), Special Purchase Order (SPO), serial number, and machine configuration.

EXAMPLE OF SPARE PARTS LIST

ENGINEERING RECOMMENDED SPARE PARTS LIST						
ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.	Index No.				

5-11	5-37	25	CONTROL PANEL ASSEMBLY Used S/C 18 and above Used S/C 18 and above	WWWW YYYY	XXXXX ZZZZZ	Single Channel Dual Channel
------	------	----	--	--------------	----------------	--------------------------------

In the example above, the control panel assembly is referenced as index 25 on figure 5-11, which appears on page 5-37. The original part number for single-channel units was WWWW; order part number XXXXX if it must be replaced.

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON Fig. Page Index No. No. No.	DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES

LOGIC CARDS

LOC A01	TVV Component Assembly JTWW - Used S/C 18 & above	54167710	54167710	Transmitters
LOC A02	RVV Component Assembly HRVV - Used S/C 18 & above	54147709	54147709	Receivers
LOC A06	LTV Component Assembly ELTV - Used S/C 18 & above	54276906	54276906	Access Control and Index Sector Decode
LOC A07	LVV Component Assembly RLVV - Used S/C 18 & above	54277713	54277721	Access Control #1
LOC A08	QPV Component Assembly EQPV - Used S/C 18 - 19 FQPV - Used S/C 20 & above	54135306 54135308	54135308 54135308	Diff and Head Reg Control
LOC A10	LSV Component Assembly CLSV - Used 18 & above	54276503	54276503	Write Clk
LOC A12	LWV Component Assembly FLWV - Used S/C 18 & above	54278107	54278107	Difference Generator

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig.	Page	Index				
No.	No.	No.				
LOC A13						
_ LXV Component Assembly						
			ELXV - Used S/C 18 & above	54278505	54278505	NRZ to MFM
LOC A14						
_ LRV Component Assembly						
			HLRV - Used S/C 18 & above	54276108	54276108	Data Latch
LOC A15						
_ LZV Component Assembly						
			BLZV - Used S/C 18 & above	54279303	54279303	Read PLO
LOC A17						
_ KfV Component Assembly						
			EKFV - Used S/C 18 - 24	54262105	54262115	Fault Card
			NKFV - Used S/C 25 & above	54262115	54262115	
LOC A18						
_ FRV Component Assembly						
			HFRV - Used S/C 18 & above	54226113	54226113	Fine Servo Decode
LOC A19						
_ KGV Component Assembly						
			AKGV - Used S/C 18 & above	54262501	54262501	Access Control #2
LOC A20						
_ MSV Component Assembly						
			DMSV - Used S/C 18 & above	54296505	54296505	Analog Servo

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON Fig. No.	Page No.	Index No.	DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES

LOC E01

_PKV Component Assembly
4PKV - Used S/C 18 & above

54123700 54123700

Read Write
Control

LOC E02

_PJV Component Assembly
5PJV - Used S/C 18-25
BPJV - Used S/C 26 & above

54123301 54123304
54123304 54123304

Write Driver

LOC E03

_PHV Component Assembly
4PHV - Used S/C 18 & above

54122900 54122900

Read Amplifier

PARTS AND ASSEMBLIES

5 Volt Regulator Component Assembly
Used S/C 18 & above

75054500 75054500

5 Volt Regulator

_ZGN Component Assembly

5ZGN - Used S/C 18 & above

75243202 75243202

Servo Connector
Bd

3-5 3-19 4

_ZQN Component Assembly
FZQN - Used S/C 18 & above

73485311 73485311

Servo Preamplifier

3-6 3-25 3

Switch, Interlock, (A3S1) Faston

Used S/C 18 & above

93560002 93560002

60 Hz & 50 Hz
NON-VDE

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON Fig. No.	Page No.	Index No.	DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
3-9	3-33		Control panel Switch Assembly Used S/C 18 & above	76422501	76422501	All units
3-13	3-43	7	Filter, Washable Aluminum Used S/C 18 & above	00815447	00815447	60 Hz & 50 Hz NON-VDE
3-15	3-49	45	Motor Relay Box Assembly Used S/C 26 & above	72874680	72874680	50 Hz VDE
3-16	3-51	7	Filter, Washable Aluminum Used S/C 18 & above	00815447	00815447	50 Hz VDE
3-17	3-53	4	Blower and Connector Assembly Used S/C 18 & above	77450700	77450700	All units
3-17	3-53	9	Filter, Air Used S/C 18 & above	94358000	94358000	All units
3-18	3-55		Power Supply Assembly Used S/C 18-22 Used S/C 23 & 24 Used S/C 25 & above	47293624 47293640 47293649	47293649 47293649 47293649	60 Hz
3-18	3-55		Power Supply Assembly Used S/C 18-22 Used S/C 23 & 24	47293625 47293641	47293641 47293641	50 Hz NON-VDE

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig.	Page	Index				
No.	No.	No.				
3-18	3-55	1	Switch, AC 15A Solid State (ALQ4) Used S/C 18 & above	94376500	94376500	60 Hz & 50 Hz NON-VDE
3-18	3-55	2	Switch, AC 30A Solid State (ALQ2 & ALQ3) Used S/C 18 & above	94371302	94371202	60 Hz & 50 Hz NON-VDE
3-18	3-55	3	Switch, AC 15A Solid State (ALQ1) Used S/C 18 & above	94371301	94371301	60 Hz & 50 Hz NON-VDE
3-18	3-55	13	Filter - Low Leakage Used S/C 18-22 Used S/C 23 & above Used S/C 23 & 24	94355401 94355403 94355403	94355403 94355403 94355403	50/60 Hz 60 Hz 50 Hz NON-VDE
3-18	3-57	22	Transformer, Ferro (ALT2) Used S/C 18 & above	76804000	76804000	60 Hz
3-18	3-57	22	Transformer, Ferro (ALT2) Used S/C 18 - 24	76804100	76804100	50 Hz NON-VDE
3-18	3-57	24	Transformer, Ferro (ALT1) Used S/C 18 & above	76804200	76804200	60 Hz

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.	Index No.				
3-18	3-57	24	Transformer, Ferro (ALT1) Used S/C 18 -24	76804300	76804300	50 Hz NON-VDE
3-18	3-57	25	Transformer Assembly (ALT3) Used S/C 18 & above	47317900	47317900	60 Hz & 50 Hz NON-VDE
3-18	3-59	27	Rectifier, Bridge Used S/C 18 & above	50242705	50242705	60 Hz & 50 Hz NON-VDE
3-18	3-59	30	Capacitor, 660 V ac, (A1C1 & A1C2) Used S/C 18 & above Used S/C 18-24	95686701 95686701	95686701 95686701	60 Hz 50 Hz NON-VDE
3-18	3-61	49	Contact, 24 V dc, (K6,K7,K8) Used S/C 18 & above	94378200	94378200	60 Hz & 50 Hz NON-VDE
3-18	3-61	56	_YFN Component Assembly _AYFN - Used S/C 18 & above	77427502	77427502	Relay Board 60 Hz & 50 Hz NON-VDE

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON		DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.				
3-19	3-63	8	Circuit Breaker, (ALCB8) Used S/C 18 & above Used S/C 18-24	92696031 92696031 92696031 92696031	60 Hz 50 Hz NON-VDE
3-19	3-63	9	Circuit Breaker, (ALCB7) Used S/C 18 & above Used S/C 18-24	94268303 94268303 94268303 94268303	60 Hz 50 Hz NON-VDE
3-19	3-63	10	Circuit Breaker, (ALCB6) Used S/C 18 & above Used S/C 18-24	92696023 92696023 92696023 92696023	60 Hz 50 Hz Non-VDE
3-19	3-63	11	Circuit Breaker, (ALCB5) Used S/C 18 & above Used S/C 18-24	92696001 92696001 92696001 92696001	60 Hz 50 Hz NON-VDE
3-19	3-63	12	Circuit Breaker, (ALCB4) Used S/C 18 & above Used S/C 18-24	94268308 94268308 94268308 94268308	60 Hz 50 Hz NON-VDE
3-19	3-63	13	Circuit Breaker, (ALCB3) Used S/C 18 & above Used S/C 18-24	94245209 94245209 94245209 94245209	60 Hz 50 Hz NON-VDE

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.	Index No.				
3-19	3-63	14	Circuit Breaker, (ALCB2) Used S/C 18 & above Used S/C 18-24	94268315 94268315	94268315 94268315	60 Hz 50 Hz NON-VDE
3-19	3-63	15	Switch, Toggle Used S/C 18 & above Used S/C 18-24	92509057 92509057	92509057 92509057	60 Hz 50 Hz NON-VDE
3-19	3-63	16	Meter, AC Hour Used S/C 18 & above	94313808	94313808	60 Hz
3-19	3-63	16	Meter, AC Hour Used S/C 18 -24	94313809	94313809	50 Hz NON-VDE
3-19	3-65	20	Circuit Breaker, (ALCB1) Used S/C 18 & above Used S/C 18-24	94245211 94245811	94245211 94245211	60 Hz 50 Hz NON-VDE
3-20	3-67		-YEN Component Assembly - 5YEN - Used S/C 18 & above 5YEN - Used S/C 18 & above	77427100 77427100	77427100 77427100	Capacitor Board 60 Hz 50 Hz NON-VDE

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig.	Page	Index				
No.	No.	No.				
3-21	3-69		_ZCN Component Assembly _AZCN - Used S/C 18 & above	75183604	75183604	All units
3-21	3-69	2	Transistor, NPN, Silicon Power Used S/C 18 & above	50222700	50222700	All units
3-21	3-69	2	Transistor, PNP, Silicon Power Used S/C 18 & above	50222800	50222800	All units
3-22	3-71		Power Supply Assembly Used S/C 25 & above	73133104	73133104	50 Hz VDE
3-22	3-71	7	_FNN Component Assembly _CFNN - Used S/C 25 & above	50184902	50184902	Relay Board 50 Hz VDE
3-22	3-71	11	Fuse, Cartridge, 1A Used S/C 25 & above	51650217	51650217	50 Hz VDE

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig.	Page	Index				
No.	No.	No.				
3-22	3-71	14	Filter-RFI 115-275 V ac 20A Used S/C 25 & above	51899705	51899705	50 Hz VDE
3-22	3-71	20	Fuse, Cartridge, 8A Used S/C 25 & above	51650232	51650232	50 Hz VDE
3-22	3-71	25	Transformer, Linear Used S/C 25 & above	72892600	72892600	50 Hz VDE
3-22	3-71	29	Capacitor, 660 V ac (ALC1 & ALC2) Used S/C 25 & above	76879007	76879007	50 Hz VDE
3-22	3-71	30	Plug, Relay 11 Pin, 3 Pole Used S/C 25 & above	94378511	94378511	50 Hz VDE
3-22	3-71	32	Circuit Breaker Used S/C 25 & above	15165934	15165934	50 Hz VDE
3-22	3-71	35	- CFN Component Assembly - FCFN - Used S/C 25 & above	50122105	50122105	Control Board 50 Hz VDE
3-22	3-73	51	Transformer, Ferro (ALT2) Used S/C 25 & above	70127200	70127200	50/60 Hz VDE

3-112

83323820 F

ENGINEERING RECOMMENDED SPARE PARTS LIST						
ITEMS APPEAR ON Fig. Page Index No. No. No.	DESCRIPTION		PART NUMBER	REPLACE- MENT PART NUMBER	NOTES	
3-23 3-75 1	Meter, Time Elapsed Used S/C 25 & above		94390902	94390902	50 Hz VDE	
3-23 3-75 3	Circuit Breaker, (ALCB2) Used S/C 25 & above		15165864	15165864	50 Hz VDE	
3-23 3-75 6	Circuit Breaker, (ALCB3) Used S/C 25 & above		92696037	92696037	50 Hz VDE	
3-23 3-75 10	Switch, Toggle Used S/C 25 & above		94332110	94332110	50 Hz VDE	
3-23 3-75 13	Circuit Breaker, (ALCB8) Used S/C 25 & above		95647231	95647231	50 Hz VDE	
3-23 3-75 14	Circuit Breaker, (ALCB6 & CB7) Used S/C 25 & above		95657052	95657052	50 Hz VDE	
3-23 3-75 15	Circuit Breaker, (ALCB5) Used S/C 25 & above		94268308	94268308	50 Hz VDE	
3-23 3-75 16	Circuit Breaker, (ALCB4) Used S/C 25 & above		94245209	94245209	50 Hz VDE	

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.	Index No.				
3-23	3-75	18	Circuit Breaker, (AICB1) Used S/C 25 & above	95587134	95587134	50 Hz VDE
3-24	3-76		_CBN Component Assembly			
			CCBN - Used S/C 25 & above	50120502	50120502	Rectifier Filter Board 50 Hz VDE
3-25	3-79	1	Connector, 3-Wire Locking Used S/C 18 & above	94368003	94368003	60 Hz
3-25	3-79	1	Connector, 3-Wire Locking Used S/C 18 & above	94368800	94368800	50 Hz
3-26	3-83	28	Switch, Mini Integral Actuator (Heads Loaded) (A3S6) Used S/C 18 & above	93786005	93786005	All units
3-26	3-87	7	Speed Sensor Assembly Used S/C 18 & above	76395500	76395500	All units
3-26	3-87	25	Drive Motor & Pulley Assembly Used S/C 18 & above	77454000	77454000	60 Hz

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON		DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.				
3-26	3-87	25	Drive Motor & Pulley Assembly Used S/C 18 - 24	77454001 77454001	50 Hz NON-VDE
3-26	3-87	25	Drive Motor & Pulley Assembly Used S/C 25 & above	77431607 77431607	50 Hz VDE
3-26	3-89	42	Belt, Flat Drive, 1.00 x 27 Used S/C 18 & above	92314087 92314087	60 Hz
3-26	3-89	42	Belt, Flat Drive, 1.00 x 28 Used S/C 18 & above	92314093 92314093	50 Hz
3-27	3-91		Pack Sensor Assembly Used S/C 18 & above	73586101 73586101	All units
3-27	3-91	3	Switch, Mini Integral Actuator Used S/C 18 & above	73786012 73786012	All units
3-27	3-91	7	Spring, Static Ground Used S/C 18 & above	40054700 40054700	All units
3-28	3-93		Transducer and Connector Assembly Used S/C 18 & above	73618901 73618901	All units

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON Fig. Page Index No. No. No.	DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
3-29 3-95 6	_XFN Component Assembly, Loc E04			Mother Board; All units
	4XFN - Used S/C 18 & above	75208100	75208100	
3-29 3-95 7	_XGN Component Assembly, Loc E05			Serial Head Select; All units
	BXGN - Used S/C 18 & above	75208502	75208502	
3-30 3-97	Actuator Assembly Used S/C 18 - 25 Used S/C 26 only Used S/C 27 & Above	77445401 77445402 77445403	77445403 77445403 77445403	All units
3-30 3-97 8	Conductor, Flexible Used S/C 18 & above	77444600	77444600	All units
3-30 3-97 10	Cam, Tower Used S/C 18 & above			All units 29-23565-00 74
3-30 3-97 14	Head Arm Assembly Used S/C 18 -22 Used S/C 23 & above			Servo Head; All units

75015800 75015800

75010109 75010409
75010409 75010409

ENGINEERING RECOMMENDED SPARE PARTS LIST

ITEMS APPEAR ON			DESCRIPTION	PART NUMBER	REPLACE- MENT PART NUMBER	NOTES
Fig. No.	Page No.	Index No.				
3-30	3-97	14	Head Arm Assembly			ALL units; Head NOS 0,2,4,6,8,11,13, 15,17.
			Used S/C 18 -22	75010101	75010401	
			Used S/C 23 & above	75010401	75010401	
3-30	3-97		Screw, Head Arm			ALL units
			Used S/C 18 & above	75017500	75017500	
3-30	3-97		Coil Assembly			ALL units
			Used S/C 18 & above	75217001	75217001	
3-31	3-99		Spindle Assembly			ALL units
			Used S/C 18 & above	73586002	73586002	
3-31	3-99	1	Lockshaft, Spindle			ALL units
			Used S/C 18 & above	76372300	76372300	
<u>TOOLS & MATERIALS</u>						
			Card Extender			ALL units
			Used S/C 18 & above	54109700	54109701	