

ILLUSTRATED PARTS BREAKDOWN

RV20/RV20-P OPTICAL DISK DRIVE SUBSYSTEM

HOW TO USE THE IPB

GENERAL

This IPB is compiled following the organization and nomenclature of the engineering drawing structure.

MAJOR ASSEMBLY LOCATOR (When Applicable)

The Major Assembly Locator (first illustration) is an index that provides a description and a figure reference for all illustrations used in this manual.

INDENTED PARTS LIST

This manual identifies each assembly being broken down (figure reference callout), and all parts of that assembly. Further breakdown of an assembly is shown by an asterisk (*) preceding the item callouts in the Description Column. The number of asterisks preceding an item is used to denote the subordination of that item with respect to the Major Assembly. A single asterisk preceding an item description indicates that the item is part of the major assembly being illustrated. Items that are subordinate to single asterisks items are denoted by two asterisks (**) and immediately follow the related single asterisk item. Additional asterisks are used, as required, to denote further subordination. This system of part identification, provides a means for the user to identify the next higher assembly item and make alternate selections for parts when the required replacement part of assembly is not immediately available.

COLUMN-CALLOUT DESCRIPTION

Figure and Item. - Indicates the figure number and item number of each part.

Description - Lists the name of the part and pertinent specifications (when required). Asterisks preceding the description denote the subordination of the part to the next higher assembly.

DEC Part No. - Lists the Digital part ordering number. A blank in this column indicates a Digital part number was not assigned at the time of publication.

ECO Cut-In - The notation at the top of this column indicates the ECO level of the system (option), at which the IPB was initially prepared. Subsequent ECO level designations, that modify existing parts or add new parts to the device, are inserted in the ECO Cut-In column next to the part that is added or modified.

Used On Code - Letters in this column correspond to the variation codes assigned in Figure 1. Parts with an Alpha notation(s) are used only in those option variations. A blank indicates that the part is used on all option variations.

Ref Fig No. - A cross reference between illustrations. For each Major Assembly, the number in this column denotes the figure of the next higher assembly. For all subassemblies, the number in this column denotes the figure showing additional detailed breakdown.

PART NUMBER/PART DESCRIPTION SORT SECTION

Parts are sorted both numerically and alphabetically by description, referenced to a location within the IPB, by figure number and item number.

REVISION HISTORY				OTHER IPB MANUALS REQUIRED TO SUPPORT THIS OPTION.....
PRINTING	ECO LEVEL		DATE	
1st Printing	RV20-P	00000-00000		

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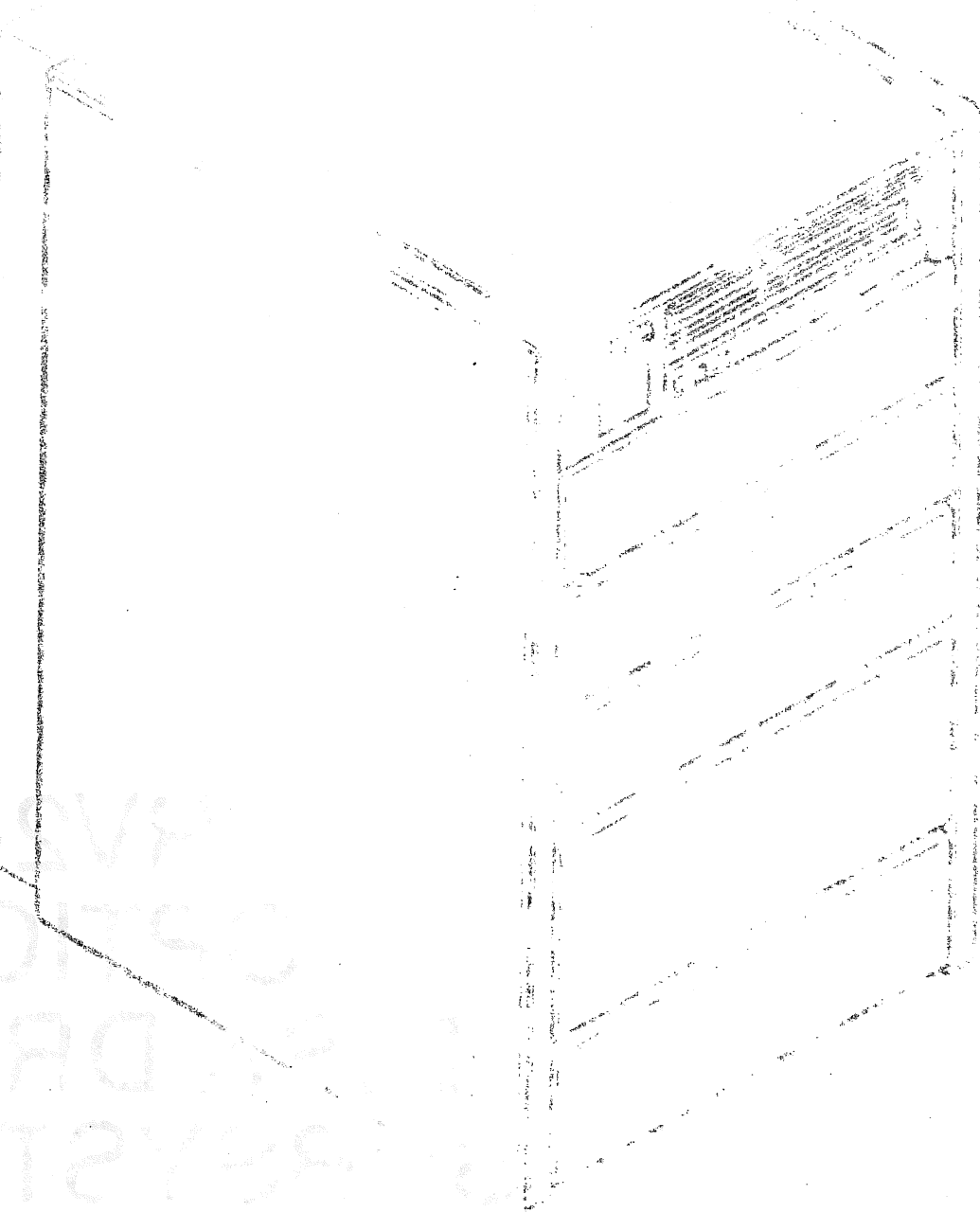
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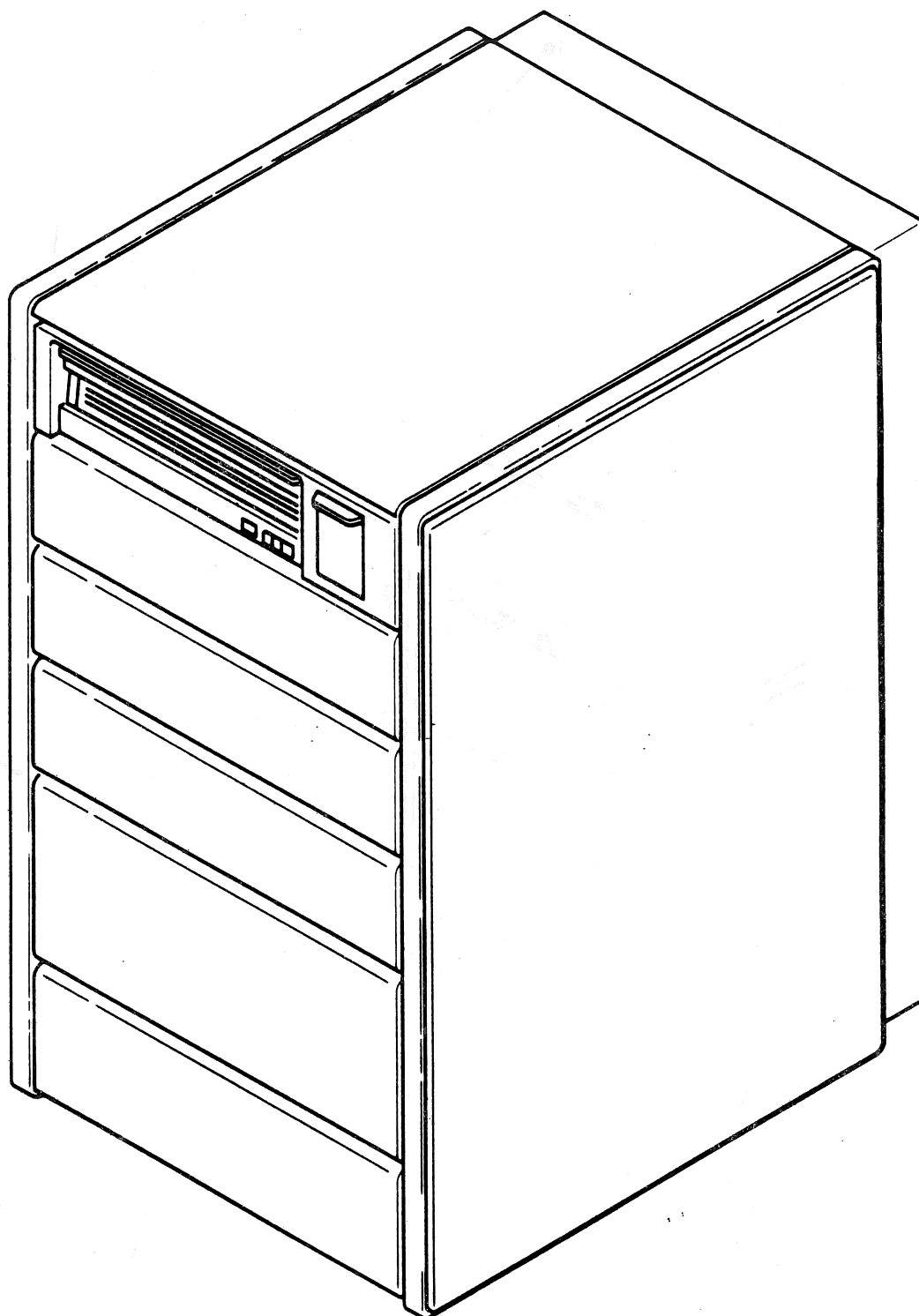
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SVR
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SYSTEM

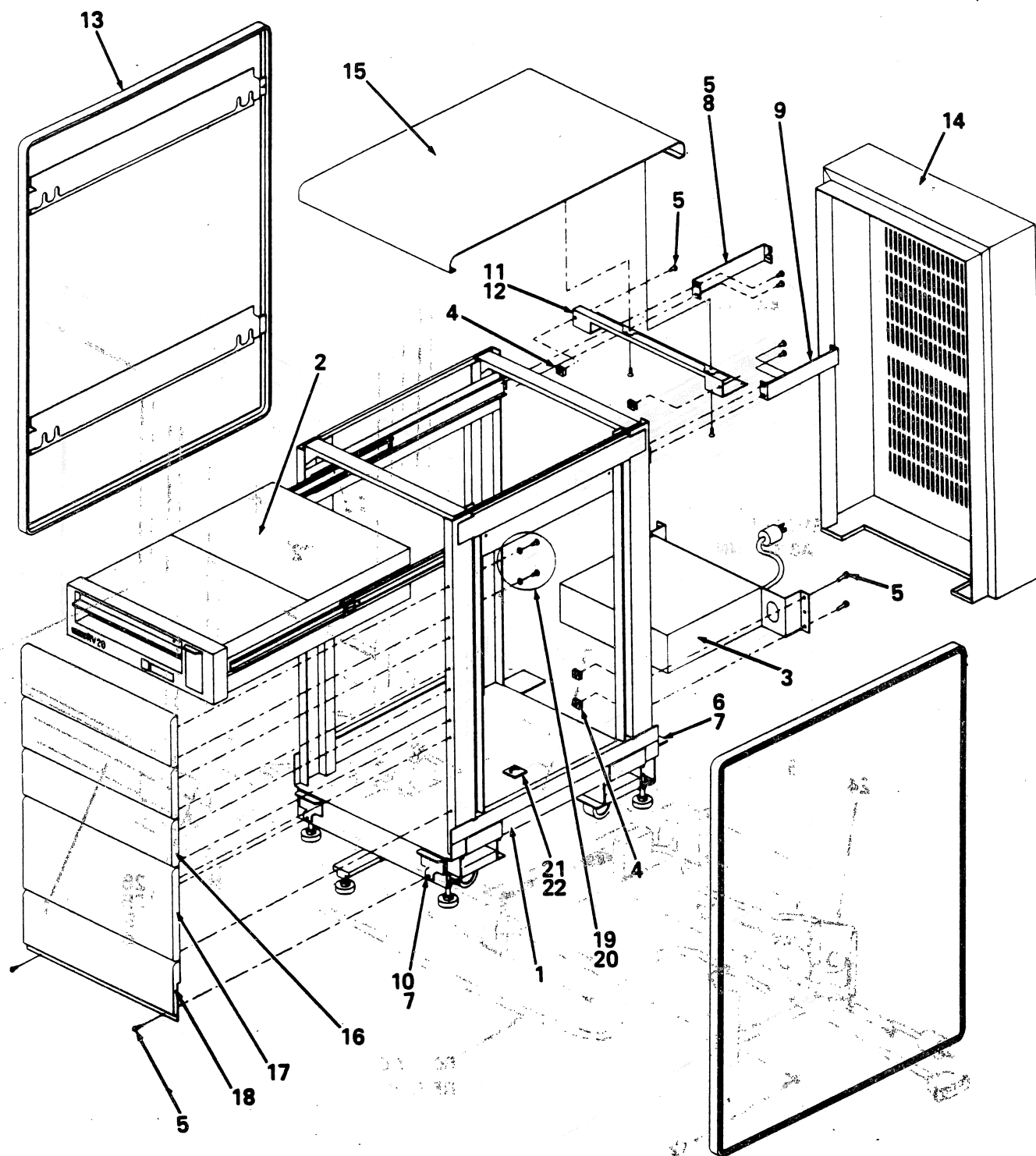
**RV20-P
OPTICAL
DISK DRIVE
SUBSYSTEM**





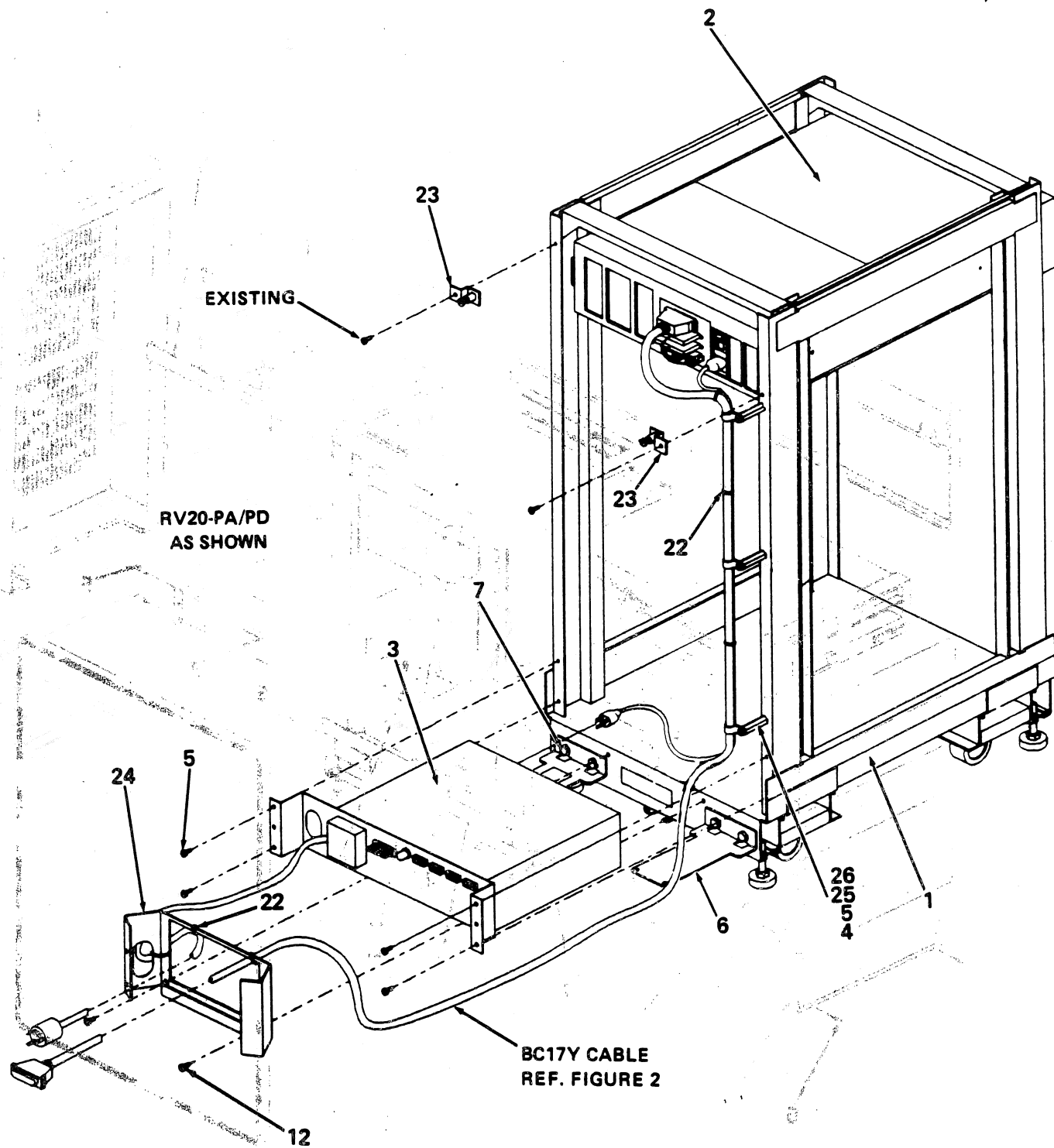
RV20P-01

Figure 1. RV20-P Optical Disk Drive Subsystem (Sheet 1 of 4)



RV20P-01A

Figure 1. RV20-P Optical Disk Drive Subsystem (Sheet 2 of 4)



ATO 9021 P

RV20P-01B

Figure 1. RV20-P Optical Disk Drive Subsystem (Sheet 3 of 4)

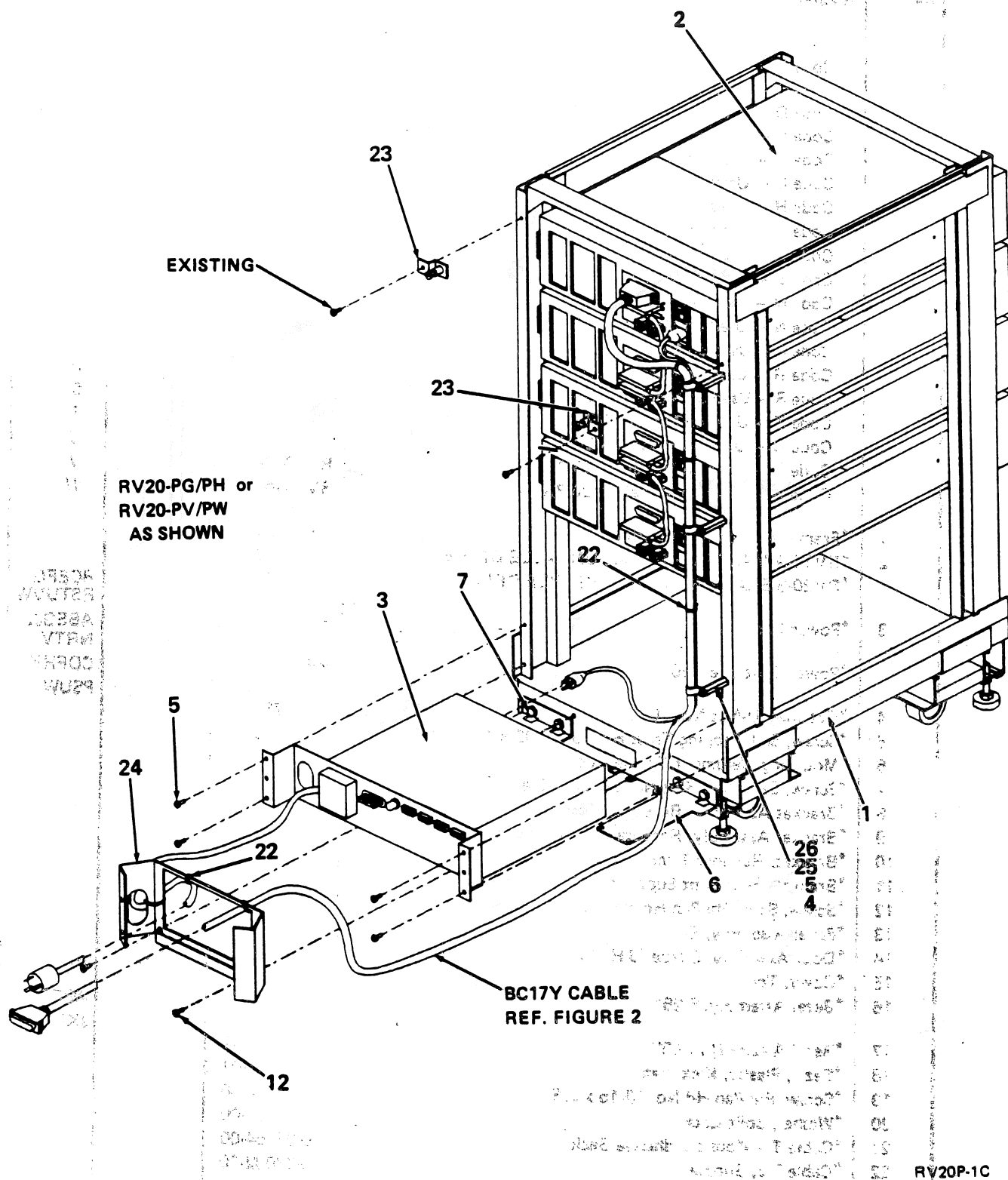


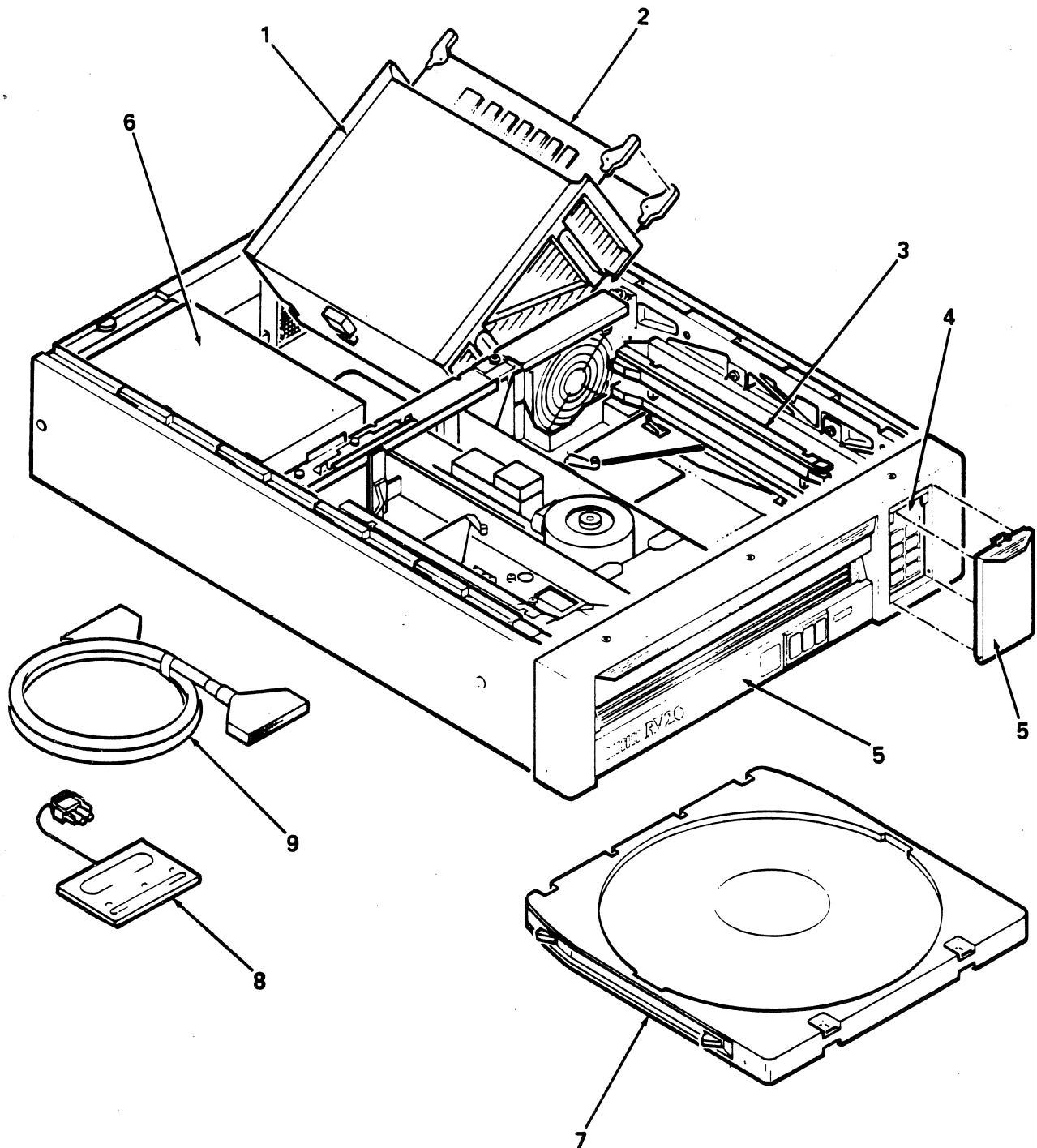
Figure 1. RV20-P Optical Disk Drive Subsystem (Sheet 4 of 4)

FIG. & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN RV20-P 00000	USED ON CODE	REF FIG NO.
1-	RV20-P OPTICAL DISK DRIVE SYSTEM				
	Code A - Used on Model RV20-PA	RV20-PA		A	
	Code B - Used on Model RV20-PB	RV20-PB		B	
	Code C - Used on Model RV20-PC	RV20-PC		C	
	Code D - Used on Model RV20-PD	RV20-PD		D	
	Code E - Used on Model RV20-PE	RV20-PE		E	
	Code F - Used on Model RV20-PF	RV20-PF		F	
	Code G - Used on Model RV20-PG	RV20-PG		G	
	Code H - Used on Model RV20-PH	RV20-PH		H	
	Code J - Used on Model RV20-PJ	RV20-PJ		J	
	Code K - Used on Model RV20-PK	RV20-PK		K	
	Code L - Used on Model RV20-PL	RV20-PL		L	
	Code M - Used on Model RV20-PM	RV20-PM		M	
	Code N - Used on Model RV20-PN	RV20-PN		N	
	Code P - Used on Model RV20-PP	RV20-PP		P	
	Code R - Used on Model RV20-PR	RV20-PR		R	
	Code S - Used on Model RV20-PS	RV20-PS		S	
	Code T - Used on Model RV20-PT	RV20-PT		T	
	Code U - Used on Model RV20-PU	RV20-PU		U	
	Code V - Used on Model RV20-PV	RV20-PV		V	
	Code W - Used on Model RV20-PW	RV20-PW		W	
1	*Frame, 40 Inch w/o Interlock	70-23213-02			
2	*RV20-A MASTER RACK MOUNTABLE DRIVE	30-27256-02			2
	*RV20-B SLAVE RACK MOUNTABLE DRIVE	30-27256-01		BCEFGH RSTUVW	2
3	*Power Controller, 60 Hz	H874-D		ABEGJL NRTV	
	*Power Controller, 50 Hz	H874-E		CDFHKM PSUW	
4	*Retainer, U-Nut No. 10-32	90-07786-00			
5	*Screw, Self-Tapping Truss Hd No. 10-32 x 1/2	90-00063-39			
6	*Mounting Weldment, Bustle Door	70-23121-01			
7	*Screw, Sems Hex Slot No. 1/4-20 x 3/4	90-09988-14			
8	*Bracket Assembly, Receptacle, Right	74-37240-01			
9	*Bracket Assembly, Receptacle, Left	74-37240-02			
10	*Bracket, Retainer Trim	74-21903-00			
11	*Bracket, Rear Vent Support	74-22244-00			
12	*Screw, Sems Phi Pan Hd No. 10-32 x 5/8	12-21368-02			
13	*Panel Assembly, End	70-22137-01			
14	*Door Assembly, Bustle (3 Hi Cab)	70-22472-02			
15	*Cover, Top	H9544-LA			
16	*Bezel Assembly, 5.25"	70-23905-01		ABCDEF JKLMRS	
17	*Bezel Assembly, 10.5"	70-23906-01			
18	*Bezel, Plastic, Kick-Plate	74-33251-01			
19	*Screw, Phi Pan Hd No. 10-16 x 5/8	90-09573-00			
20	*Washer, Split Lock	90-07906-00			
21	*Cable Tie Mount, Adhesive Back	90-08264-00			
22	*Cable Tie, Bundle	90-07032-00			

FIG. & ITEM NO.	DESCRIPTION	DEC PART NO.	ECO CUT-IN RV20-P 00000	USED ON CODE	REF FIG NO.
1-					
23	*Bracket, Chassis Assembly	70-23519-01			
24	*Bracket, SDI Interface	74-32005-01			
25	*Standoff, Male/Female No. 10-32 x 2	90-00001-22			
26	*Cable Clamp, Screw Mounted	90-07088-00			
27	*Screw, Sems Hex Slot No. 10-32 x 1/2	90-09988-05			
	LABELS (Not Shown)				
	*Label, "Serial/Power, Made in USA"	36-17674-01			
	*Label, "FCC, Class A, Peripheral"	36-17880-03			
	*Label, "Caution, Stability RA81"	36-20554-01			

RV20-A/B OPTICAL DISK DRIVE

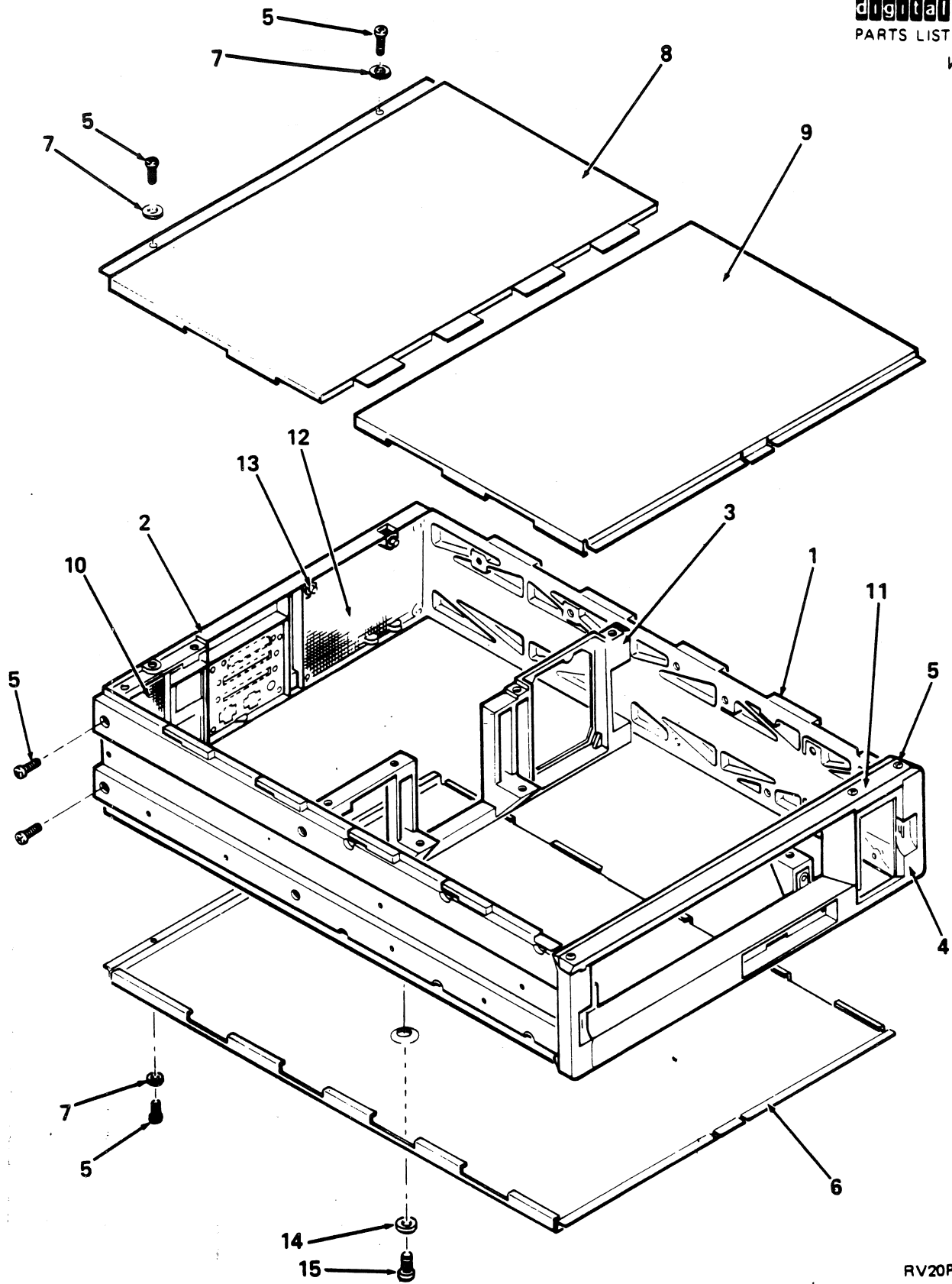




RV20P-02

Figure 2. RV20 Optical Disk Drive System— Major Assembly Locator

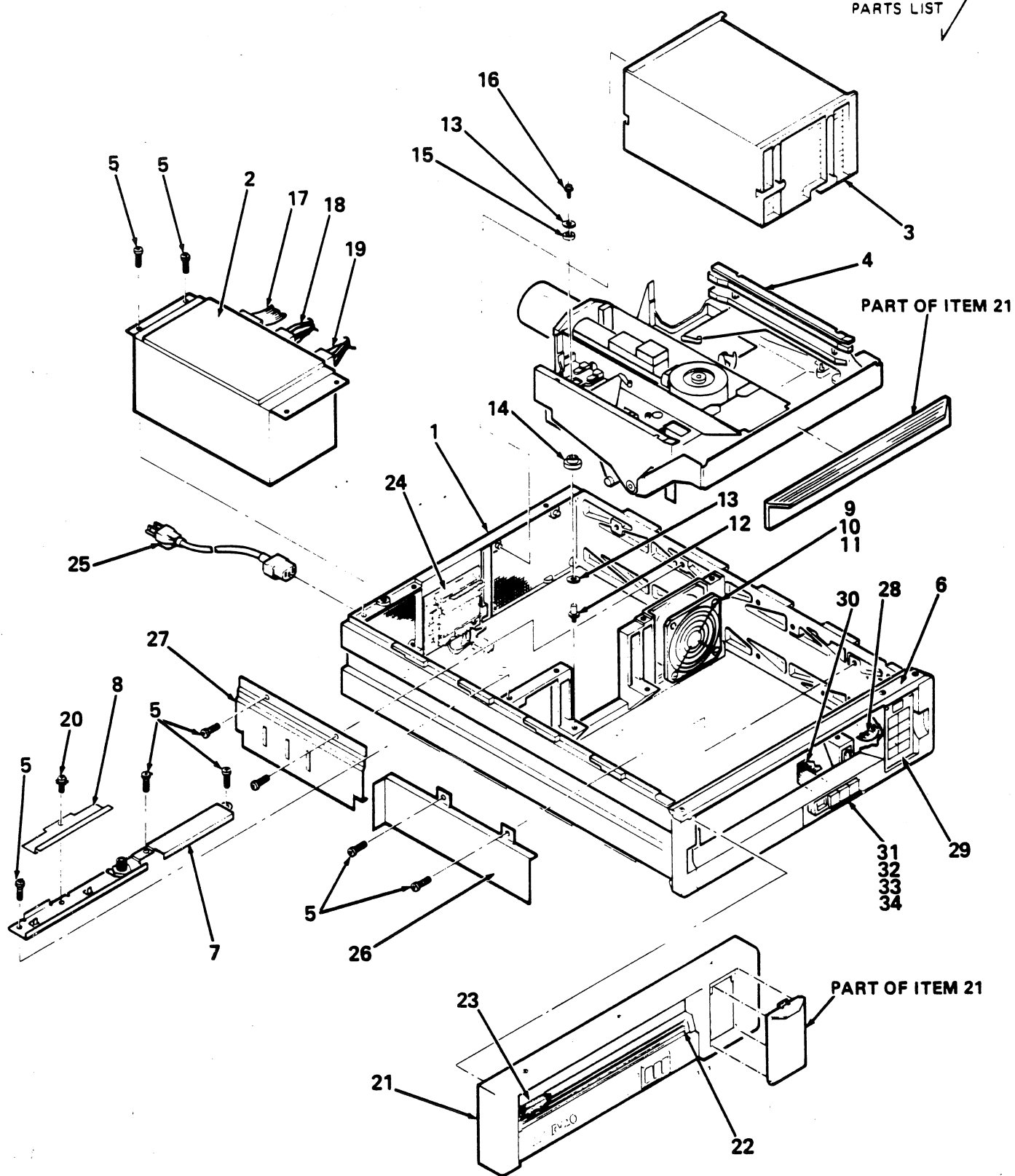
FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN RV20-P 00000	USED ON CODE	REF FIG NO.
2-	RV20 OPTICAL DISK DRIVE - MAJOR ASSEMBLY LOCATOR					
	RV20-A SINGLE MASTER DISK SUBSYSTEM, 50/60 Hz		RV20-A			
	RV20-B SINGLE SLAVE DISK SUBSYSTEM 50/60 Hz		RV20-B		BCEFGH RSTUVW	
1	*CARD RACK ASSEMBLY	75112015	_____			4,5
2	*Printed Circuit Assemblies	_____	_____			
3	*BASEPLATE ASSEMBLY	75115027	_____			4,6
4	*Maintenance Panel Assembly	_____	29-26434-00			4
5	*BEZEL ASSEMBLY, FRONT	75115248	_____			4,8
6	*Power Supply Assembly, DC	_____	29-26430-00			4
	ACCESSORIES					
7	*Optical Media Cartridge, (RV02K-01)	75110002	30-27662-02			
8	*Terminator Assembly (ISI)	_____	29-26458-00			
9	*Cable, ISI Interface, 7'	_____	29-TBA	29-26800-00		
10	*Cable, LESI (Not Shown)	_____	BC17Y-20			



RV20P-03

Figure 3. Chassis Assembly

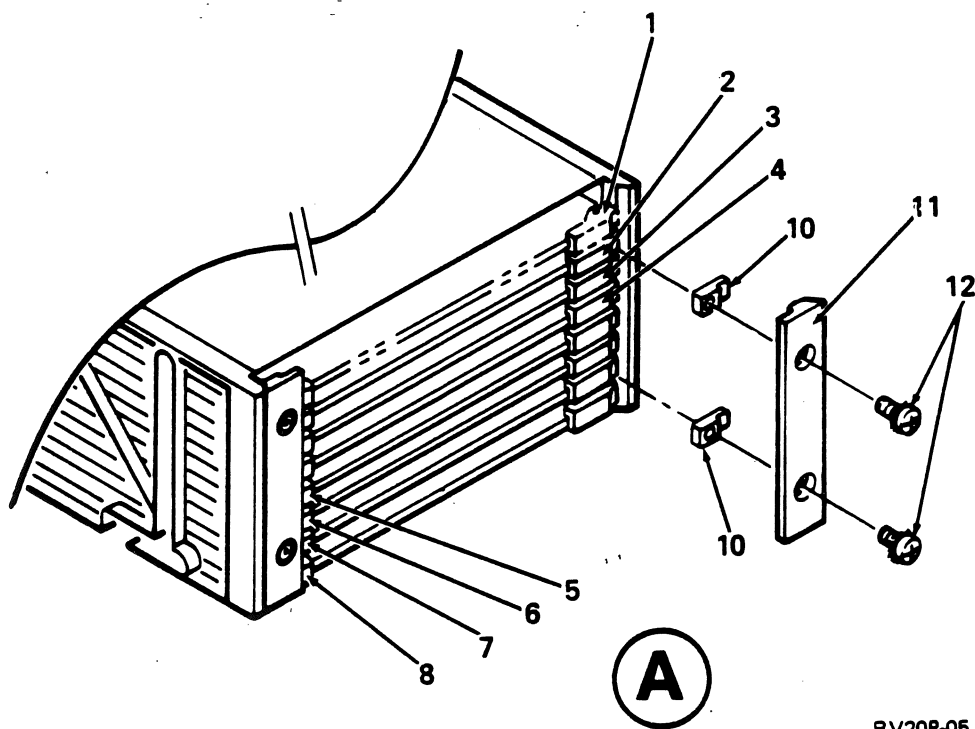
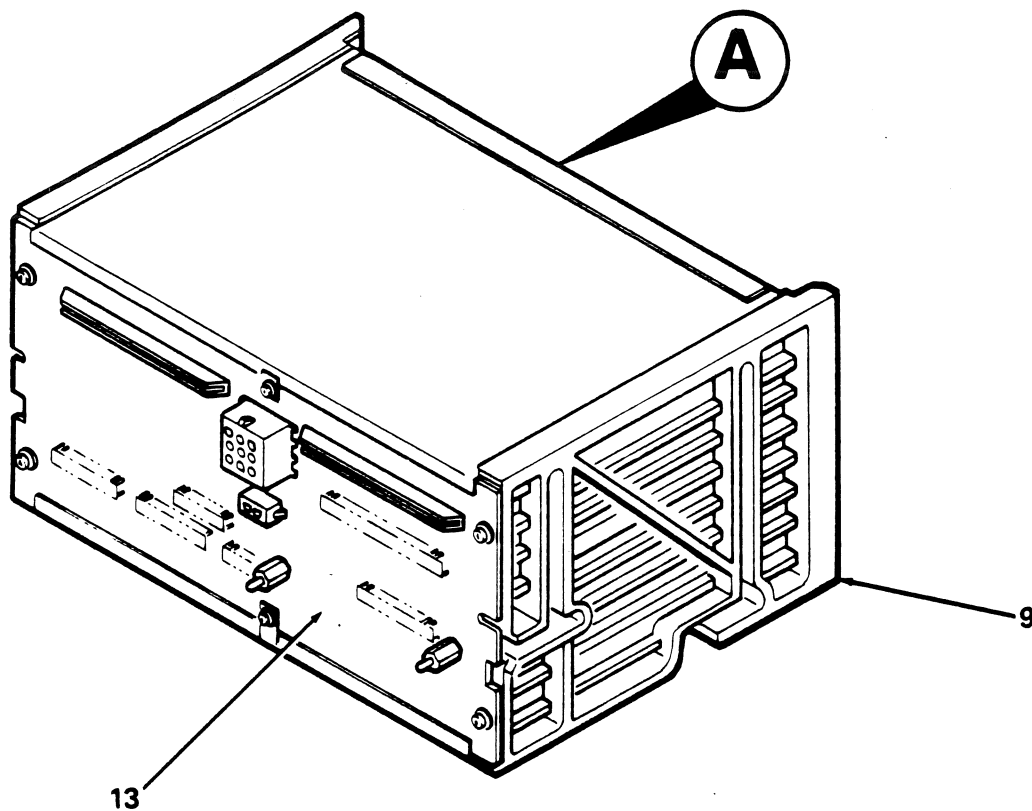
FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
3-	CHASSIS ASSEMBLY					
1	*Chassis, Side	75114337	_____			
2	*Chassis, Rear	75114333	_____			
3	*Chassis, Intermediate	75114335	_____			
4	*Chassis, Front	75114331	_____			
5	*Screw, Metric Pan Hd M4-10	75119161	_____			
6	*Chassis, Bottom Cover	75112000	_____			
7	*Washer, Lock, Dome	15424292	_____			
8	*Cover, Top Rear	75112001	_____			
9	*Cover, Top Front	75112002	_____			
10	*Screen, Left	75112055	_____			
11	*Stiffener, Front Member	93530790	_____			
12	*Screen, Right	75112054	_____			
13	*Nut, Push On, .125 Dia Snd	93539003	_____			
14	*Washer,	TBA	_____			
15	*Screw,	TBA	_____			



RV20P-04

Figure 4. Unit Assembly

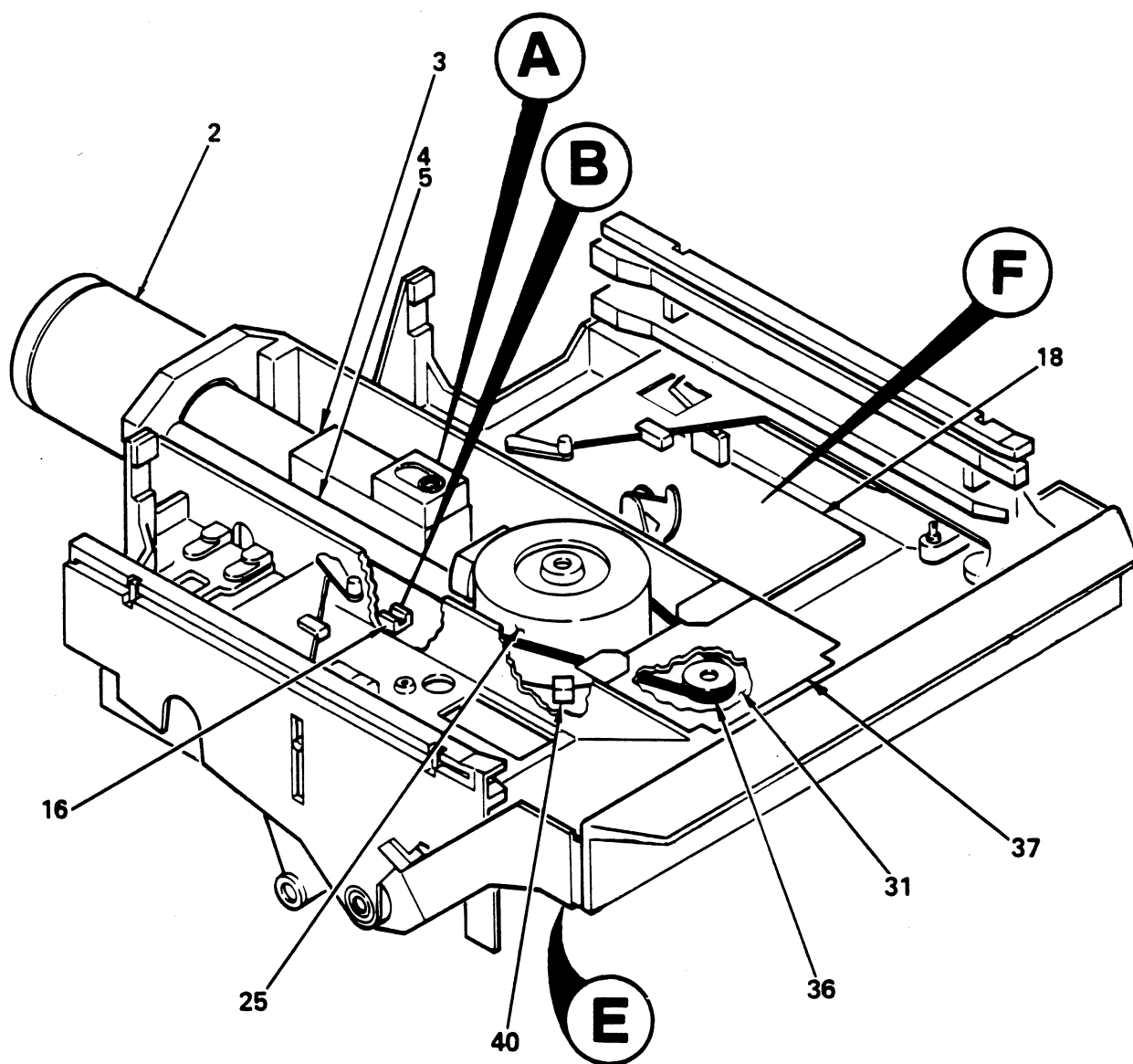
FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
4-	UNIT ASSEMBLY, 50 Hz, 60 Hz					
1	*Chassis Assembly	75115028	_____			
2	*Power Supply Assembly, DC		29-26430-00			
3	*CARD RACK ASSEMBLY	75112015	_____			5
4	*BASEPLATE ASSEMBLY	75115027	_____			6
5	*Screw, Pan Hd, Lock, M4-8	75119159	_____			
6	*Stiffener, Front Member	75114339	_____			
7	*Stiffener, Intrmdt Member	75112050	_____			
8	*Bracket, Cable Hold	75112051	_____			
9	*Fan Assembly, Tube Axial DC	_____	29-26455-00			
10	*Retainer, Fan	75110941	_____			
11	*Nut, Hex, M4 x 12	75119161	_____			
12	*Spacer, Shock Mount	75111155	_____			
13	*Washer, Snubbing	75110049	_____			
14	*Mount, Resilient	15423738	_____			
15	*Mount, Resilient	15423739	_____			
16	*Screw, Washer M4-10	15429160	_____			
17	*Cable, Power Supply Signal	_____	29-26443-00			
18	*Harness, Power Supply Voltage	_____	29-26442-00			
19	*Cable, Internal Power Assembly	75115034	_____			
20	*Screw, Pan Hd Star Washer M4-10	75119122	_____			
21	*BEZEL ASSEMBLY, FRONT (See Note)	75115248	_____			8
22	**Filter, Grill	_____	29-26454-00			
23	**Filter, Air 30 PPI	_____	29-26448-00			
24	*I/O PANEL ASSEMBLY	_____	29-26461-00			7
25	*Cable, Main Power	_____	29-26446-00			
26	*Trough, Front Cable	75112043	_____			
27	*Trough, Rear Cable	75115229	_____			
28	*Cable, Maintenance Panel	75110770	_____			
29	*Maintenance Panel Assembly	_____	29-26434-00			
30	*Cable, Operator Panel	_____	29-26441-00			
31	*PCA, Operator Panel	_____	29-26438-00			
32	*Lens, "Start/Stop"	_____	29-26452-00			
33	*Lens, "Write/Protect"	_____	29-26453-00			
34	*Lens, "Power Indicator"	_____	TBA			



RV20P-05

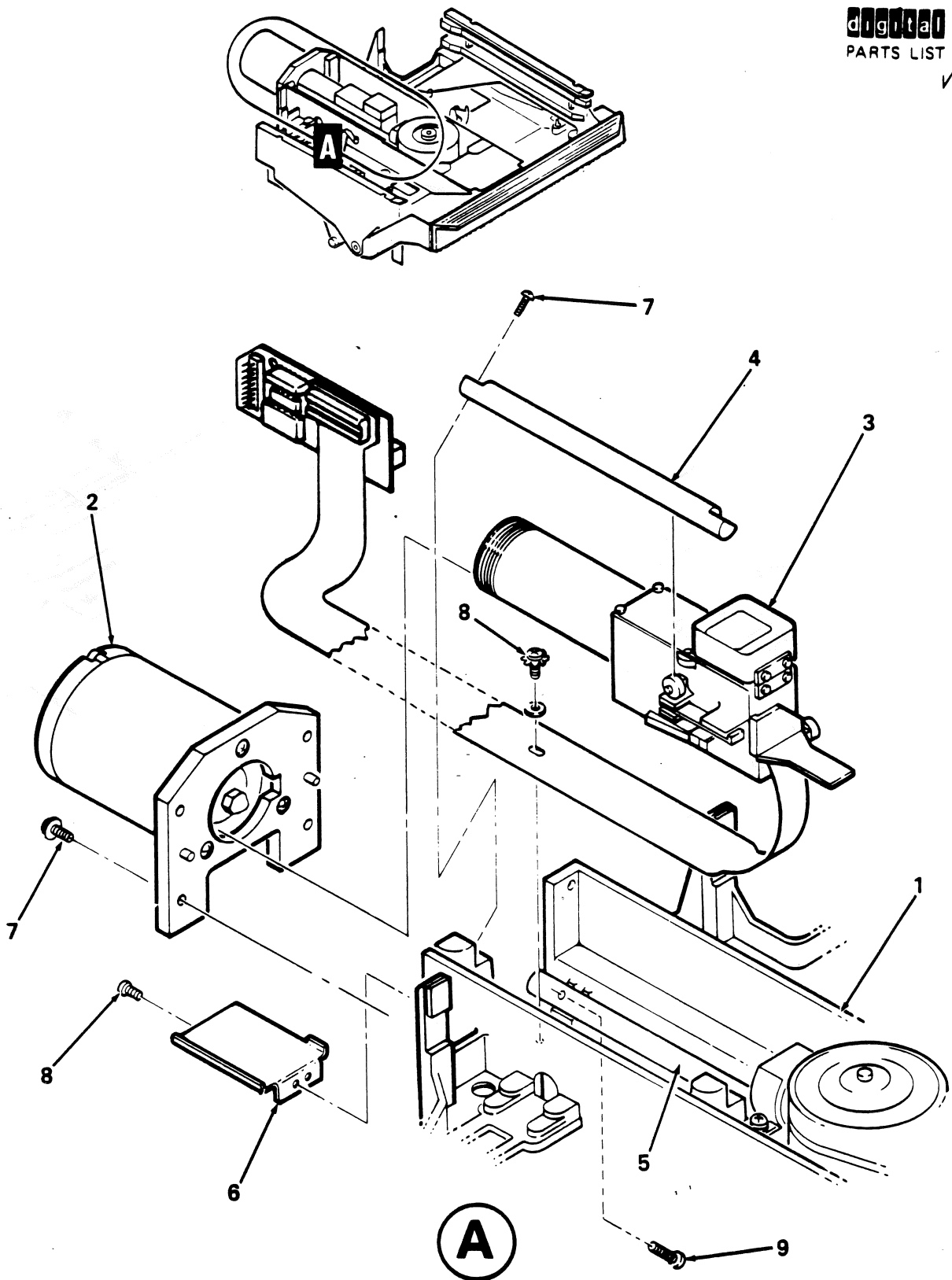
Figure 5. Card Rack Assembly

FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
5-	CARD RACK ASSEMBLY					
1	*PCA, DRIVE SUBSYSTEM Controller RV20A	_____	29-26459-00		A	
2	*PCA, ECC	_____	29-26429-00			
3	*PCA, ISI	_____	29-26427-00			
4	*PCA, Servo/Drive Control	_____	29-26435-00			
5	*PCA, Modulator Demodulator Synchronizer	_____	29-26439-00			
6	*PCA, Read/Write Control	_____	29-26428-00			
7	*PCA, Servo Systems	_____	29-26437-00			
8	*PCA, Error Signal Generator	_____	29-26436-00			
9	*CARD RACK ASSEMBLY	75112015	_____			
10	*Plate, Nut	75111335	_____			
11	*Plate, Bar	75111281	_____			
12	*Screw, Metric Mach Hd w/ Split Washer	75110936	_____			
13	*PCA, Backplane	_____	29-26460-00			



RV20P-06

Figure 6. Baseplate Assembly (Sheet 1 of 7)

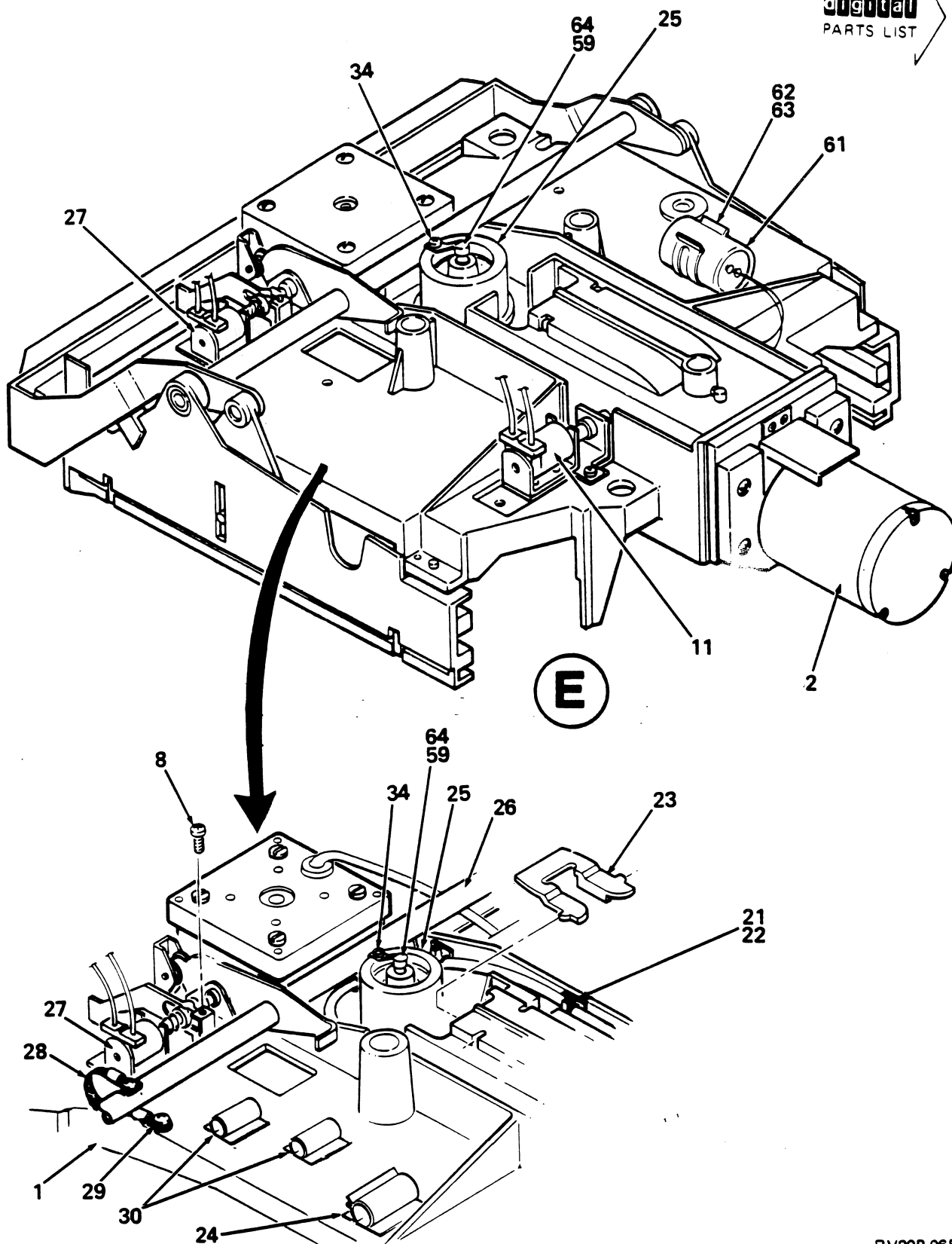


RV20P-06A

Figure 6. Baseplate Assembly (Sheet 2 of 7)

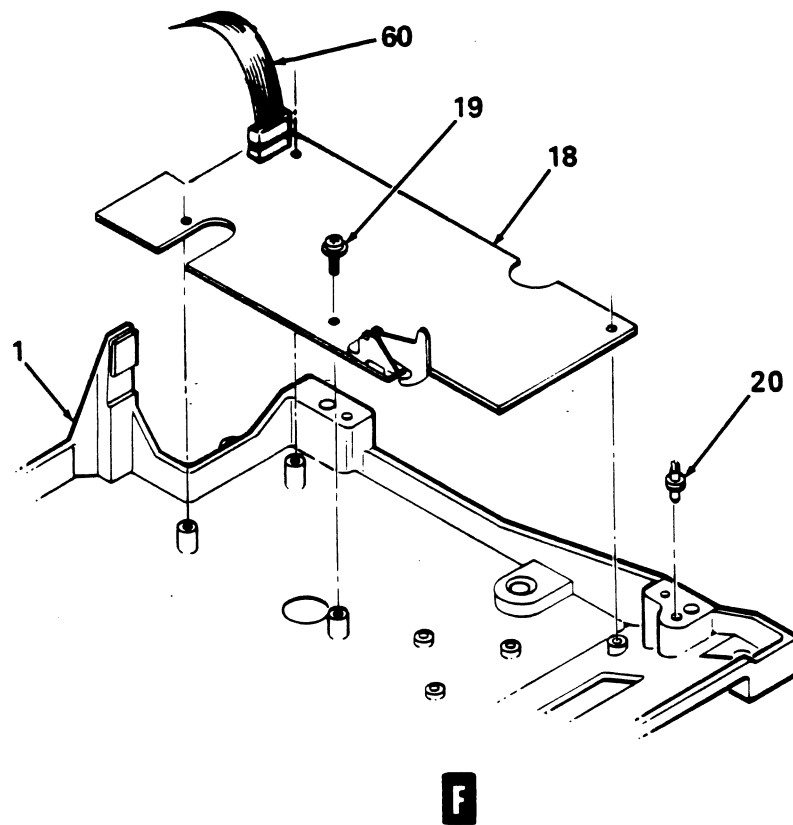
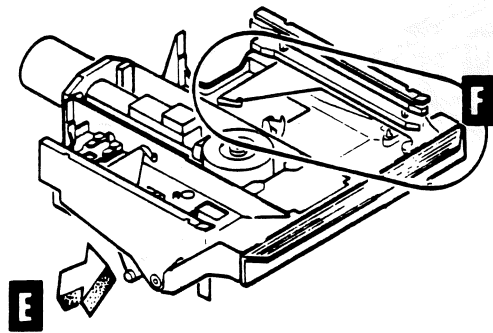


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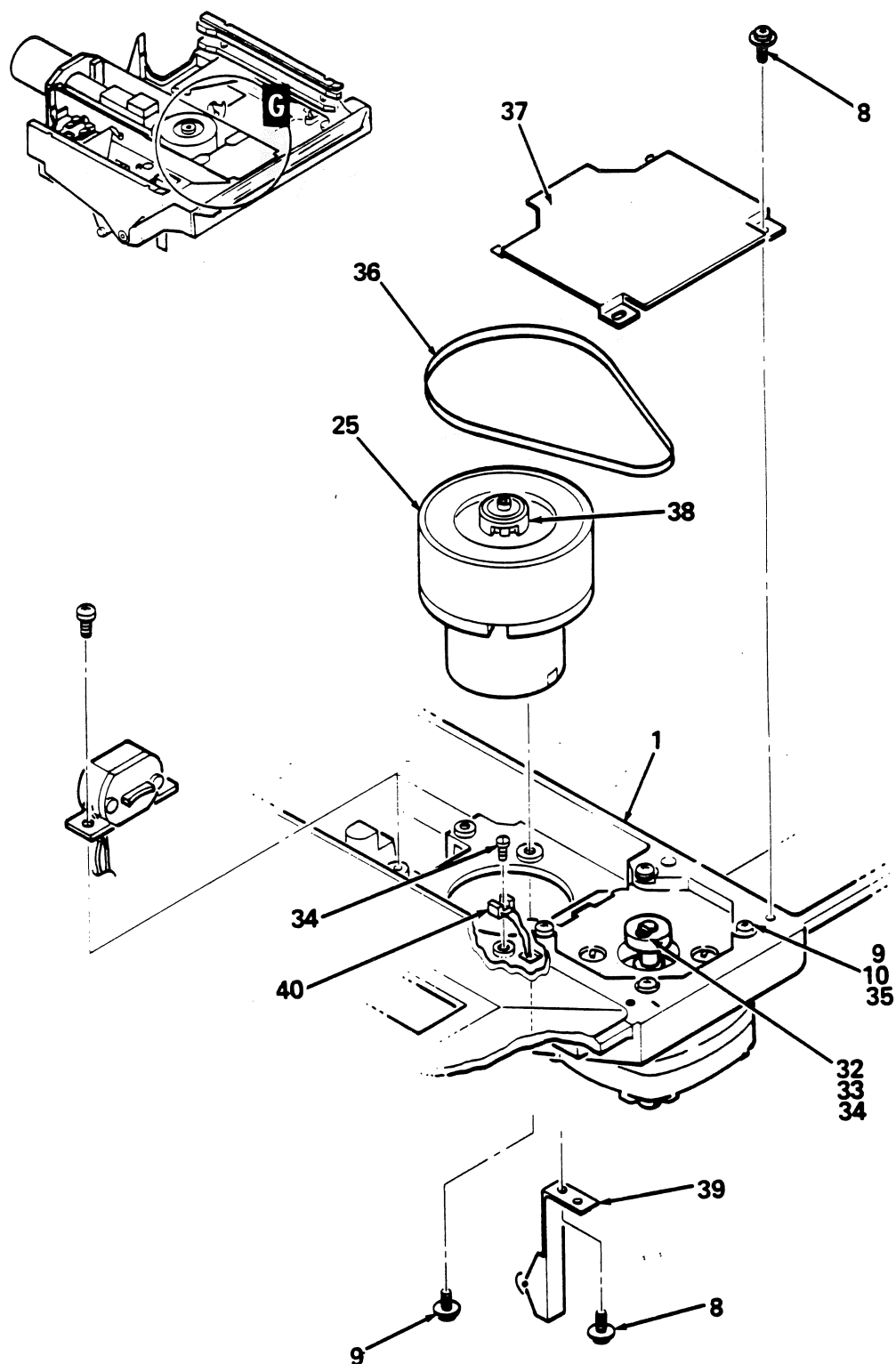
RV20P-06E

Figure 6. Baseplate Assembly (Sheet 4 of 7)



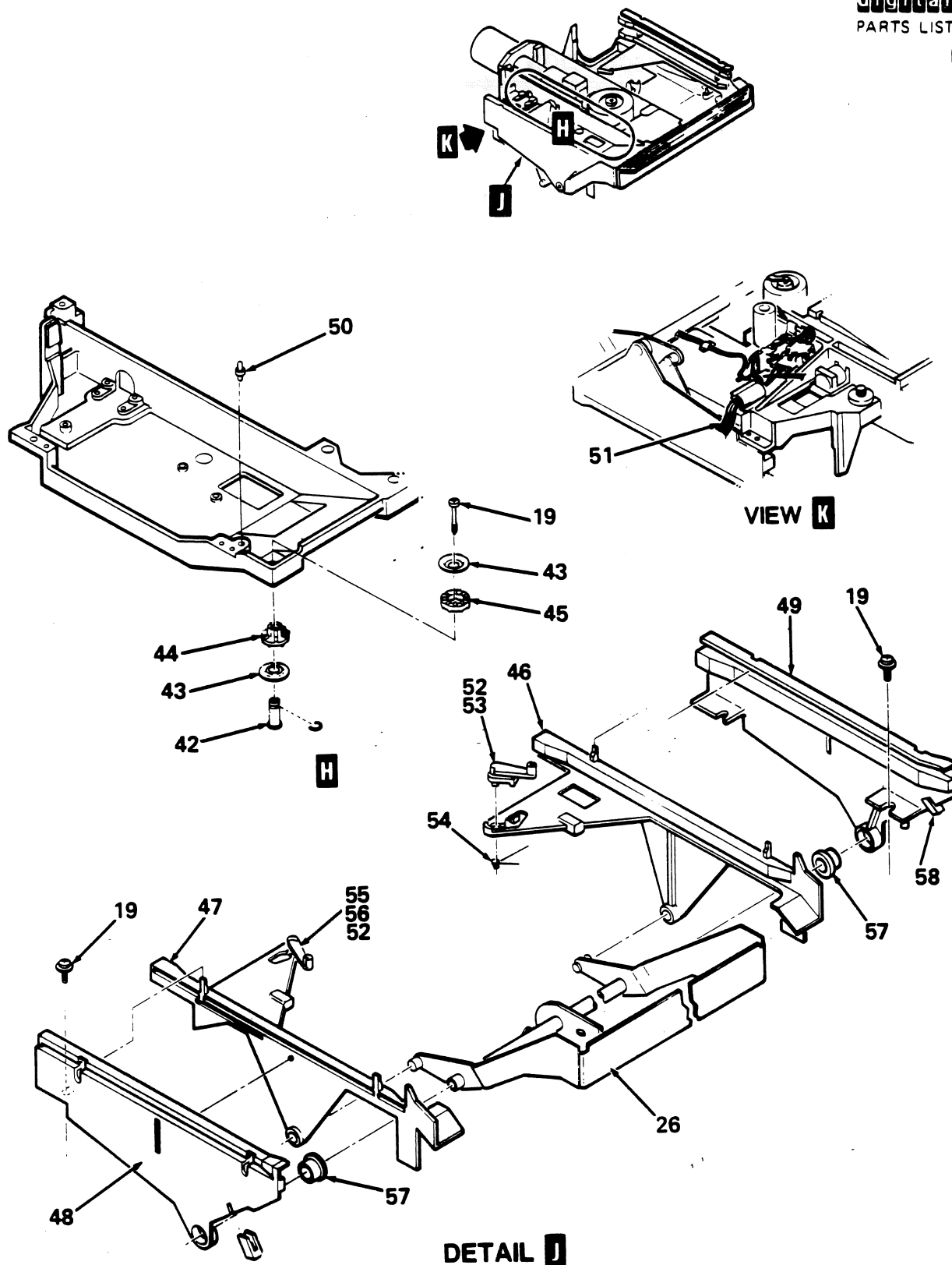
RV20P-06F

Figure 6. Baseplate Assembly (Sheet 5 of 7)



RV20P-06G

Figure 6. Baseplate Assembly (Sheet 6 of 7)

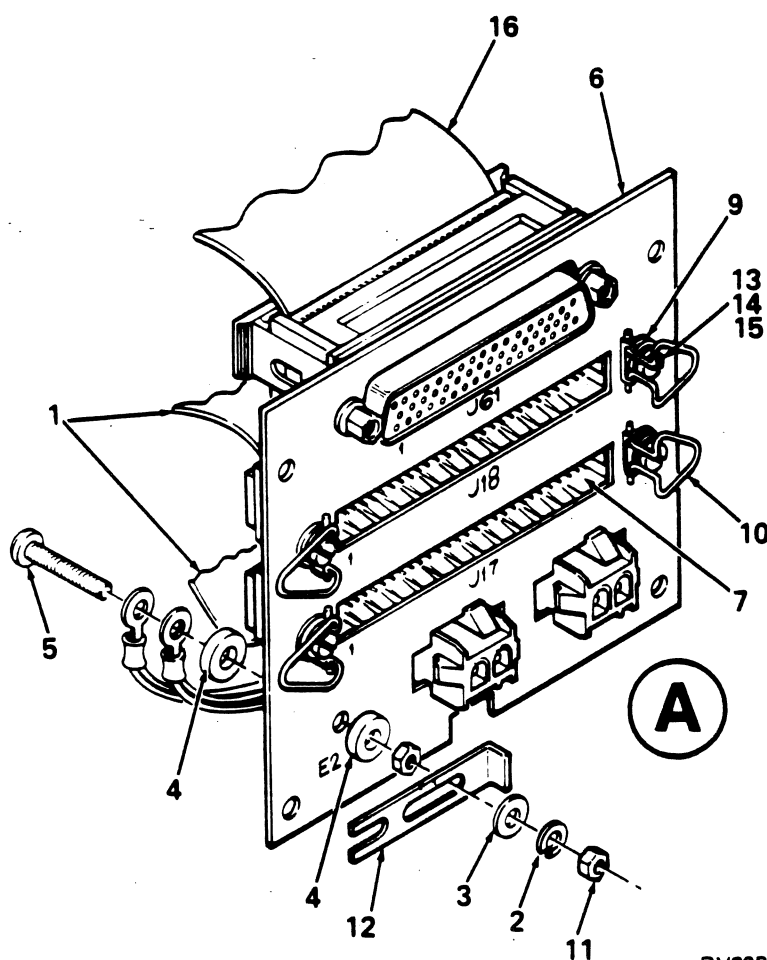
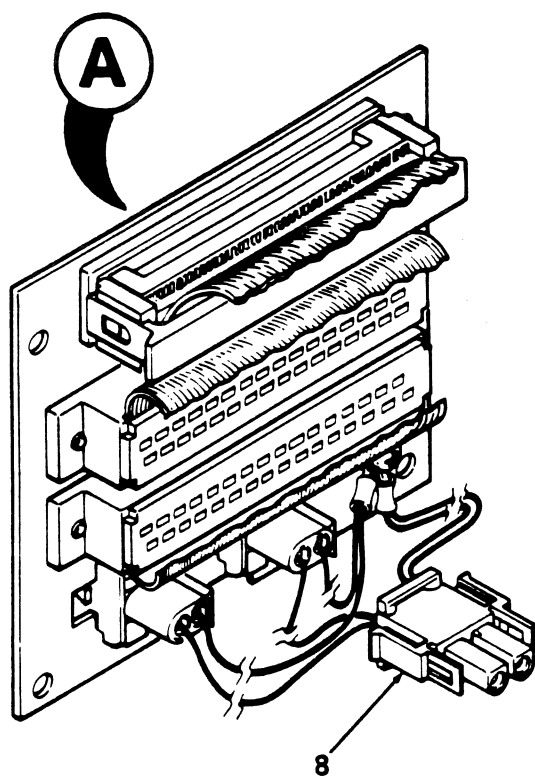


RV20P-06J

Figure 6. Baseplate Assembly (Sheet 7 of 7)

FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
6-	BASEPLATE ASSEMBLY					
1	*Baseplate	75114341	_____			
2	*Magnet Motor Positioner Assembly	75111102	_____			
3	*Carriage Assembly	_____	29-26426-00			
4	*Rail, Upper Carriage Guide	75110802	_____			
5	*Rail, Lower Carriage Guide	75110803	_____			
6	*Trough, Flex Cable	75110812	_____			
7	*Screw, Pan Hd Lock M4-12	75119161	_____			
8	*Screw, Pan Hd Lock M4-8	75119159	_____			
9	*Screw, Pan Hd Lock M4-16	75119162	_____			
10	*Washer, Flat M4	91975616	_____			
11	*Carriage Interlock Assembly	_____	29-26469-00			
12	*Spacer, Sleeve	75114379	_____			
13	*Plunger, Tip Mount Carriage Interlock	75114382	_____			
14	*Plunger, Tip Carriage Interlock	75114380	_____			
15	*Screw Lock Washer Assembly Pan M4-10	15429160	_____			
16	*Guardband Sensor Assembly	_____	29-26433-00			
17	*Screw, Pan Hd Washer M2-8	15423384	_____			
18	*PCA, Baseplate Terminator (ISI)	75116011	29-26457-00			
19	*Screw Assembly, Washer Pan Hd M4-10	75119160	_____			
20	*Pin, Cartridge Guide	75111047	_____			
21	*Clamp, Plate Mounting Loop	15424310	_____			
22	*Tie Strap, Electrical	94277400	_____			
23	*Support, Flex Cable	75110843	_____			
24	*Clamp Loop	15423715	_____			
25	*Spindle Assembly	_____	29-26425-00			
26	*Torque Tube Assembly	75111287	_____			
27	*Door Lock Solenoid Assembly	_____	29-26456-00			
28	*Cable, Ground Strap	75111054	_____			
29	*Screw, Pan Hd Starwasher M4-10	75119122	_____			
30	*Clamp Loop	15423720	_____			
31	*Motor Assembly, Spindle DC	_____	29-26431-00			
32	*Pulley, DC Motor, 60 Hz	_____	29-26447-00			
33	*Pulley Insert	75112019	_____			
34	*Screw, Pan Hd Lock M2-5	15423061	_____			
35	*Washer, Shouldered, Non-Metal	15423648	_____			
36	*Belt, Spindle Pulley Flat	_____	29-26424-00			
37	*Cover, Motor	75110604	_____			
38	*Adapter Hub	_____	29-26451-00			
39	*Door Detent Assembly	75110867	_____			
40	*Tachometer Sensor Assembly	_____	29-26432-00			
41	*Screw, Pan Hd Lock M4-8	75119159	_____			
42	*Spacer, Shock Mount	75111155	_____			
43	*Washer, Snubbing	75110049	_____			
44	*Mount Resilient	15423738	_____			
45	*Mount Resilient	15423739	_____			
46	*Guide Assembly, Right Lower Cartridge	75111398	_____			
47	*Guide Assembly, Left Lower Cartridge	75111397	_____			
48	*Guide, Left Upper Cartridge	75111109	_____			
49	*Guide, Right Upper Cartridge	75111107	_____			

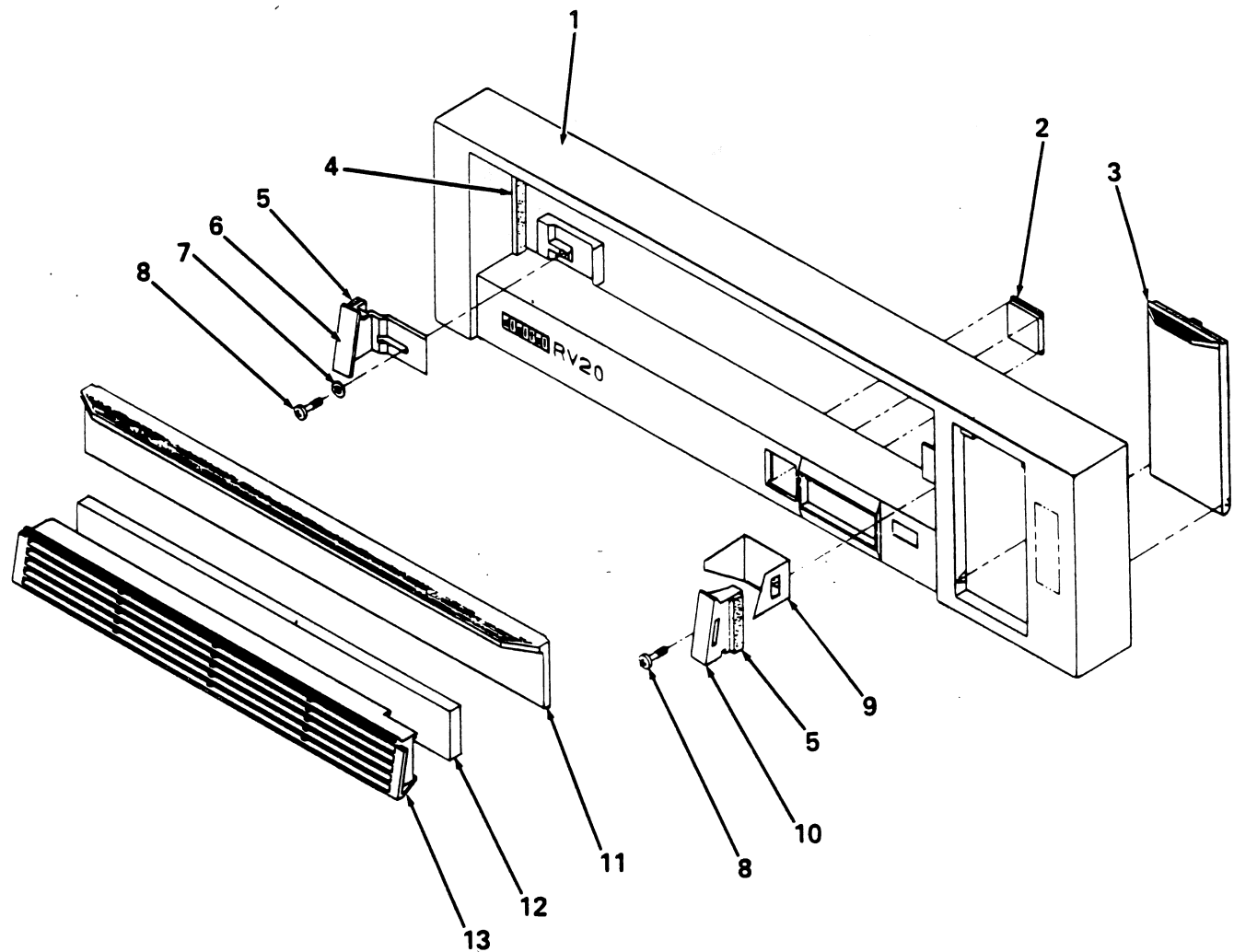
FIG. & ITEM NO.	DESCRIPTION		DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
6-						
50	*Pin, Cartridge Locating	75111046	_____			
51	*Cable Assembly, Internal Power	75115034	_____			
52	*Link Roller	75111334	_____			
53	*Link, Cartridge Door Right	75111332	_____			
54	*Spring, Door Link, Right	75111393	_____			
55	*Spring, Door Link, Left	75111392	_____			
56	*Link, Cartridge Door Left	75111333	_____			
57	*Bushing, Pivot	75110609	_____			
58	*Bumper, Right Upper Cartridge Guide	75110934	_____			
59	*Brush, Spindle Grounding	_____	29-26476-00			
60	*Cable, Terminator Signal (P21)	_____	29-26445-00			
61	*Capacitor, Retract	75115228	_____			
62	*Screw, M3 x 0.5	15423434	_____			
63	*Clamp, Capacitor	92466006	_____			
64	*Bearing, Spindle	_____	29-26440-00			



RV20P-07

Figure 7. I/O Panel Assembly

FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
7-	I/O PANEL ASSEMBLY	_____	29-26461-00			4
1	*Cable Assembly, Internal I/O	_____	29-26462-00			
2	*Washer, Split Lock M4	91975691	_____			
3	*Washer, Flat M4	91975616	_____			
4	*Washer, Shouldered Non-metal	15423648	_____			
5	*Screw, Pan Hd Machine M4-20	91976749	_____			
6	*Panel, I/O Std	75114579	_____			
7	*Plate, Electrical Shield	15423871	_____			
8	*Harness Assembly, Terminator	_____	29-26444-00			
9	*Bracket	75118837	_____			
10	*Bail	75118839	_____			
11	*Nut, Plain Hexagon M4	91975740	_____			
12	*Ground Strap, Rear Panel External	_____	29-26450-00			
13	*Screw, Pan Hd No. 4-40 x 3/8	91743086	_____			
14	*Washer, Lock Spring No. 4	93225203	_____			
15	*Washer, Flat No. 4	09027903	_____			
16	*Cable, LESI	_____	29-26463-00			



RV20P-08

Figure 8. Bezel Assembly, Front

FIG. & ITEM NO.	DESCRIPTION	VENDOR PART NO.	DEC PART NO.	ECO CUT-IN	USED ON CODE	REF FIG NO.
8-	BEZEL ASSEMBLY, FRONT	75115248	_____			2,4
1	*Bezel, Front	75114995	_____			
2	*Lens, Front Bezel	75114534	_____			
3	*Door, Bezel	75114997	_____			
4	*Seal, Clad Urethane Foam	75115486	_____			
5	*Seal, Clad Urethane Foam	75115485	_____			
6	*Retainer, Filter Grill	75115365	_____			
7	*Washer, Flat Metric	15423191	_____			
8	*Screw, Captive	75110942	_____			
9	*Spring, Filter Grill	75110937	_____			
10	*Latch, Filter Grill	75115375	_____			
11	*Cover, Door Handle	75115304	_____			
12	*Filter, Air 30PPI	_____	29-26448-00			
13	*Grill, Filter	_____	29-26454-00			
	Decals (Not Shown)					
	*Decal, "Operator Panel"	75115556	_____			
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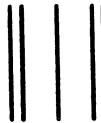
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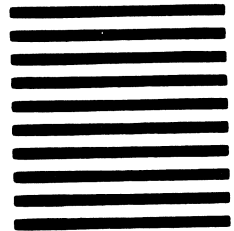
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