

28742001

4220 Cartridge Tape Subsystem
ILLUSTRATED PARTS CATALOG

StorageTek®

StorageTek®

4220 Cartridge Tape Subsystem

Illustrated Parts Catalog

Pub. 28742001

NOTE: IBM is a registered trademark of International Business Machines.

Spectra-Strip is a registered trademark of Eltia Corporation.

To request copies of this publication or any bulletin, please contact your StorageTek sales representative.

The information in this publication is subject to periodic revisions. These bulletins are identified by two additional digits at the end of the publication number, for example, XXXX.XX-00, where "00" indicates the first release of the document.

You will find a reader's comment form at the back of this manual. Please use it to send us suggestions. If the form has been removed, please send comments to: StorageTek, 2270 S 88th, Louisville CO, USA., 80028-0237.

Copyright 1992, StorageTek. No part of this document may be reproduced without the prior written consent of StorageTek. This document is subject to revision without advance notice.

WARNING: This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for a Class A computing device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

CHANGE PAGE

Change History:

28742000	Initial Release	May 1991	
28742001	Revision	August 1992	EC 35730

<u>Page</u>	<u>Change</u>
	Incorporated Engineering Changes since last iteration. Addition of ICRC.

This Page Intentionally Left Blank.

Table of Contents

How To Use This Guide	1
4220 Assembly	3
Basic Assembly	3
Electro-Mechanical Group	5
Pneumatics Group	25
Card Group	33
Orderable Parts (non-FRU)	51
Automatic Cartridge Loader (ACL)	113
Electro-Mechanical Group	115
Card Group	129
Orderable Parts (non-FRU)	135

This Page Intentionally Left Blank.

Table of Figures

Figure 1. 4220 Basic Assembly (Right-hand Mount)	2
Figure 2. Electro-Mechanical Group Power Supply Assembly	4
Figure 3. Electro-Mechanical Group Fan 24V Assembly	6
Figure 4. Electro-Mechanical Group Manual Loader Assembly (Right-hand Mount)	8
Figure 5. Electro-Mechanical Group Locator Leader Block Assembly	10
Figure 6. Electro-Mechanical Group Thread Arm Cam Assembly	12
Figure 7. Electro-Mechanical Group Head FRU Asscmbly	14
Figure 8. Electro-Mechanical Group Thread Arm Motor	16
Figure 9. Electro-Mechanical Group Supply and Take-Up Motors	18
Figure 10. Electro-Mechanical Group Cover Latch	20
Figure 11. Electro-Mechanical Group 3.5 Inch Floppy Drive	22
Figure 12. Pneumatics Group Air Valve Assembly	24
Figure 13. Pneumatics Group Pressure Transducer Assembly	26
Figure 14. Pneumatics Group Input Filter and Output Filter	28
Figure 15. Pneumatics Group Pneumatics Assembly	30
Figure 16. Card Group ML Card	32
Figure 17. Card Group SZ/SZI Card	34
Figure 18. Card Group DP Card	36
Figure 19. Card Group CP Card	38
Figure 20. Card Group ST Card	40
Figure 21. Card Group DCI Card	42
Figure 22. Card Group SB/SBI and RI Cards	44
Figure 23. Card Group SM and SP Cards	46
Figure 24. Card Group HI Card	48
Figure 25. 4220 Orderable Parts Supply Motor/SM, Take-Up Motor/SM and Tach/ST Cables	50
Figure 26. 4220 Orderable Parts PI/BT, PI/Pump and BT/Floppy Cables . . .	52
Figure 27. 4220 Orderable Parts PI/BT Power, RI/BT, ST/BT and ML/BT Cables	54
Figure 28. 4220 Orderable Parts Read/Write Flex Circuits, ML/Display and SM/ST Cables	56

Figure 28. 4220 Orderable Parts SB/SBI I/O Cable and Ferrite Bracket	58
Figure 30. 4220 Orderable Parts Power Cable	60
Figure 31. 4220 Orderable Parts RI/SB/SBI Cables	62
Figure 32. 4220 Orderable Parts DC Cable	64
Figure 33. 4220 Orderable Parts DCI Cable	66
Figure 34. 4220 Orderable Parts Finger Guard	68
Figure 35. 4220 Orderable Parts Thread Arm Sensors	70
Figure 36. 4220 Orderable Parts SH Card	72
Figure 37. 4220 Orderable Parts BT Card	74
Figure 38. 4220 Orderable Parts Hinged Top Cover	76
Figure 39. 4220 Orderable Parts Cover Partition and Support Bar	78
Figure 40. 4220 Orderable Parts BT/HI Retainers	80
Figure 41. 4220 Orderable Parts Deckplate Assembly, Deck Cover and SM/ST/Deck Cable	82
Figure 42. 4220 Orderable Parts Leader Block Guide	84
Figure 43. 4220 Orderable Parts Plate Tape Path	86
Figure 44. 4220 Orderable Parts Carrier Assembly	88
Figure 45. 4220 Orderable Parts Front Covers (Manual Loader)	90
Figure 46. 4220 Orderable Parts Blank Front Panel	92
Figure 47. 4220 Orderable Parts Overlay Assembly	94
Figure 48. 4220 Orderable Parts SCSI Floppy	96
Figure 49. 4220 Orderable Parts End Caps	98
Figure 50. 4220 Orderable Parts Front Switch	100
Figure 51. 4220 Orderable Parts Cartridge Pin	102
Figure 52. 4220 Orderable Parts SCSI I/F Assembly	104
Figure 53. 4220 Orderable Parts Line Filter	106
Figure 54. 4220 Orderable Parts DP Bracket	108
Figure 55. 4220 Orderable Parts Jonathan Slides	110
Figure 56. 4220 Orderable Parts 4220 with Autoloader (Right-hand Mount)	112
Figure 57. ACL Group Vertical Transmission and Magazine Guide Assemblies	114
Figure 58. ACL Group Lead Screw Drive Motor	116
Figure 59. ACL Group Horizontal Mag. Sensor and Mag. Index Sensor . . .	118
Figure 60. ACL Group Verticle Drive Motor	120
Figure 61. ACL Group Motor Shut Off Switch	122

Figure 62. ACL Group Roller Guide Block Assembly	124
Figure 63. ACL Group Cleaning Cart Sensor/Flag	126
Figure 64. ACL Group AS and RS Cards	128
Figure 65. ACL Group SS and CS Card	130
Figure 66. ACL Group AC and FS Cards	132
Figure 67. ACL Orderable Parts AL Interconnect Cable	134
Figure 68. ACL Orderable Parts Magazine Skid Plate	136
Figure 69. ACL Orderable Parts Magazine Guide Ring and Bezel Fill Plate .	138
Figure 70. ACL Orderable Parts Caliper Retainer	140
Figure 71. ACL Orderable Part Overlay Autoloader (ACL)	142
Figure 72. ACL Orderable Parts Other Orderables	144

This Page Intentionally Left Blank.

How To Use This Guide

The StorageTek 4220 Illustrated Parts Catalog provides a rapid visual and numeric reference to all field replaceable units (FRUs) and orderable items associated with the 4220 product.

The drive may be on the right side of the unit, as viewed from the front (right-hand mount) or on the left side (left -hand mount).

The guide is organized into major sections:

Electro-Mechanical; Pneumatics; Cards; Cables; and Orderable Parts (non-FRU).

In each section are exploded views of the field replaceable units within the assembly.

Each illustration shows several FRUs in their surroundings. Callouts in the illustration correlate the drawing of the FRU to its part number and description on the facing page.

Each FRU reference contains:

1. Figure reference number
2. Part number
3. Description

Figure reference codes for sub-sections are:

Electro-Mechanical Group - EM

Pneumatics Group - PN

Card Group - CD

Cable Group - CB

Orderable Parts (non-FRU) - OP

This manual contains a table of contents, table of figures, and an index, by part number, description and page.

SPECIAL NOTES ON PART NUMBERS:

Certain part numbers contain "XX" as the last digits. These variables are used to track form/fit/function changes.

For Cards, the part numbers contain "XXX" as the last three digits. The first "X" indicates imbed changes while the last two track form/fit/function changes.

Part numbers for attaching hardware appear only for those hardware items which are unique and require ordering through the Illustrated Parts Catalog. Other attaching hardware is seen as generally available in the community and should be obtained locally.

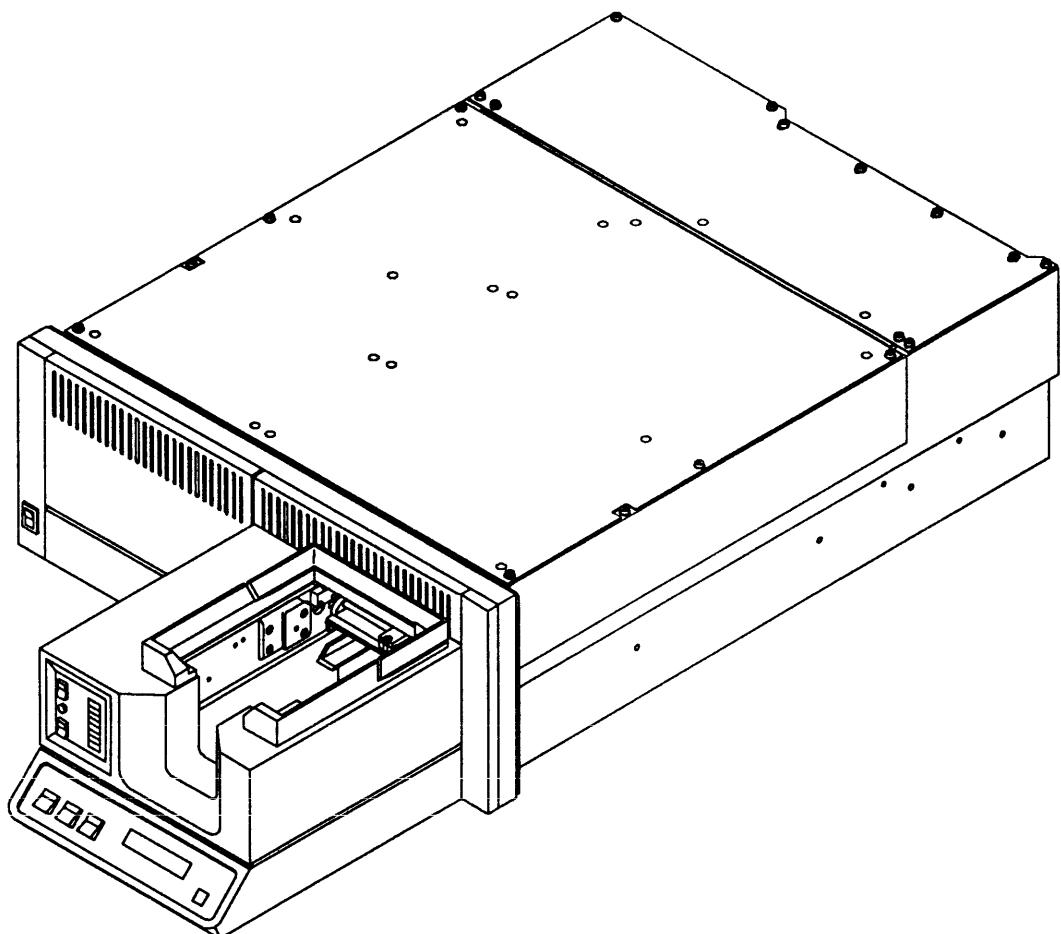


Figure 1.
4220 Basic Assembly (Right-hand Mount)

4220 Assembly

Basic Assembly

The 4220 basic assembly consists of the deck and all associated covers, hardware and electronic components.

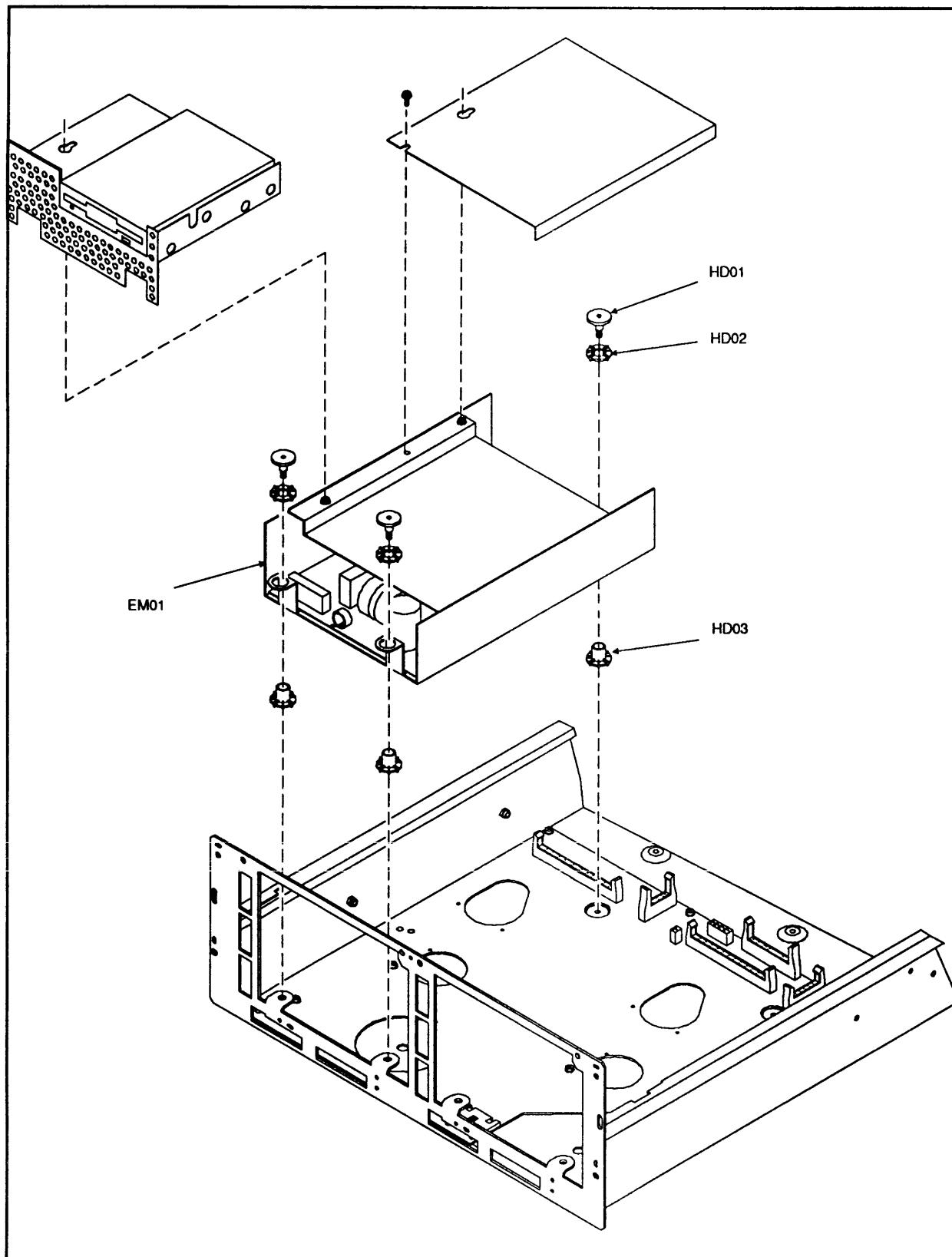


Figure 2. Electro-Mechanical Group
Power Supply Assembly

28742001

4220 Cartridge Tape Subsystem
ILLUSTRATED PARTS CATALOG**StorageTek****4220 Assembly****Electro-Mechanical Group**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM01	289463XX	POWER SUPPLY ASSEMBLY	1

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01	287663XX	SCREW ISOLATOR	3
HD02	24020856	RING ISOLATOR	3
HD03	24020853	BUSHING, ISOLATOR	3

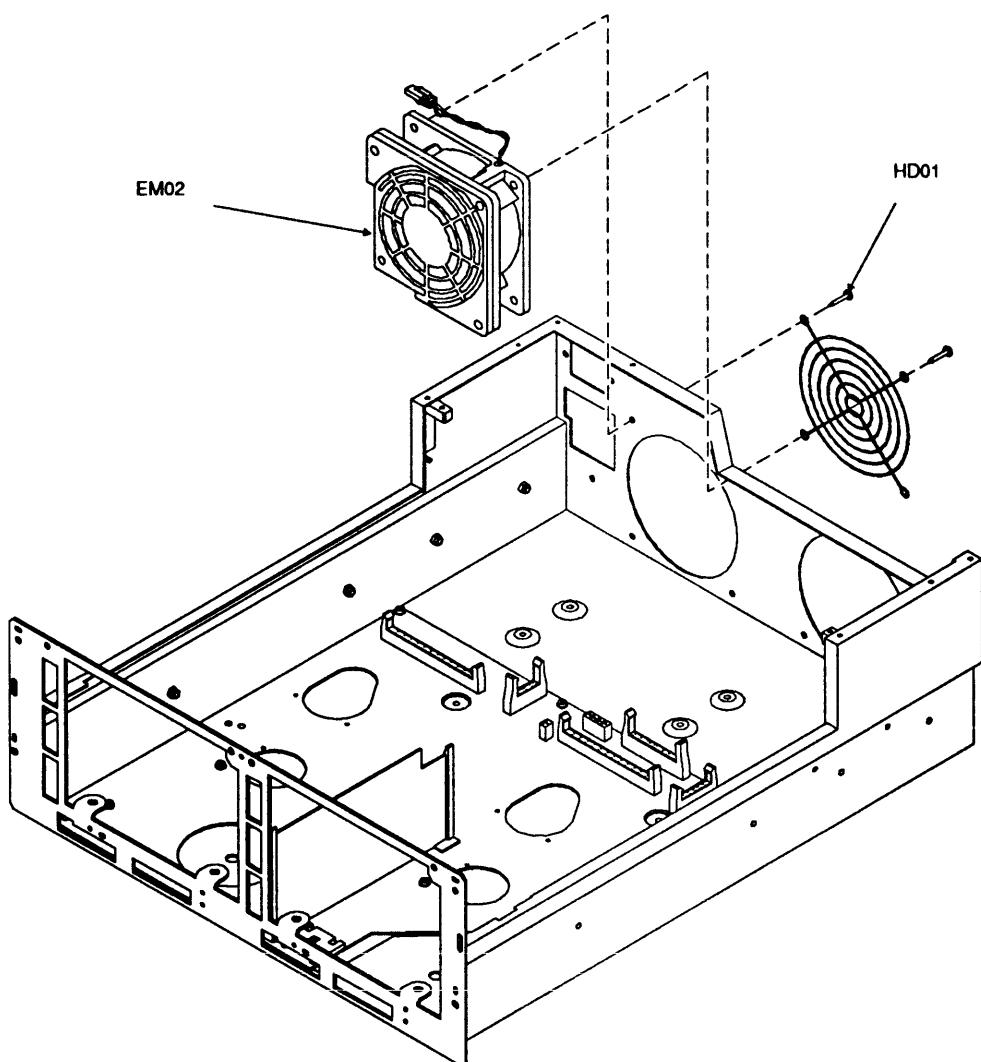


Figure 3. Electro-Mechanical Group
Fan 24V Assembly

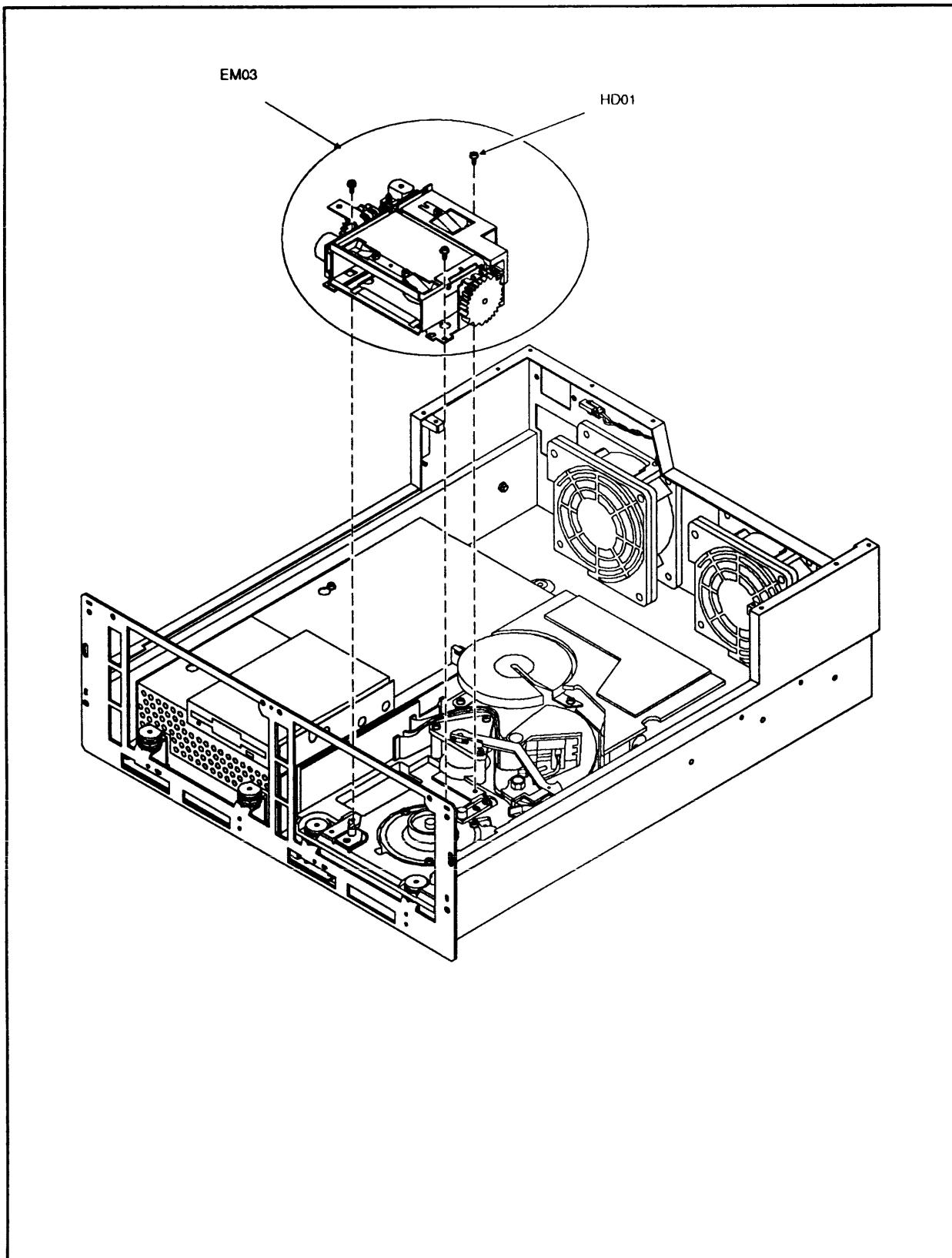
4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM02	288567XX	FAN 24V ASSY	2

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01	24013201	SCREW, TORX, PH, METRIC	8



**Figure 4. Electro-Mechanical Group
Manual Loader Assembly (Right-hand Mount)**

4220 Assembly**Electro-Mechanical Group, cont.**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM03	288589XX	MANUAL LOADER ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCR, PHT, SEMS, 6-32X3/8, ZINC	3

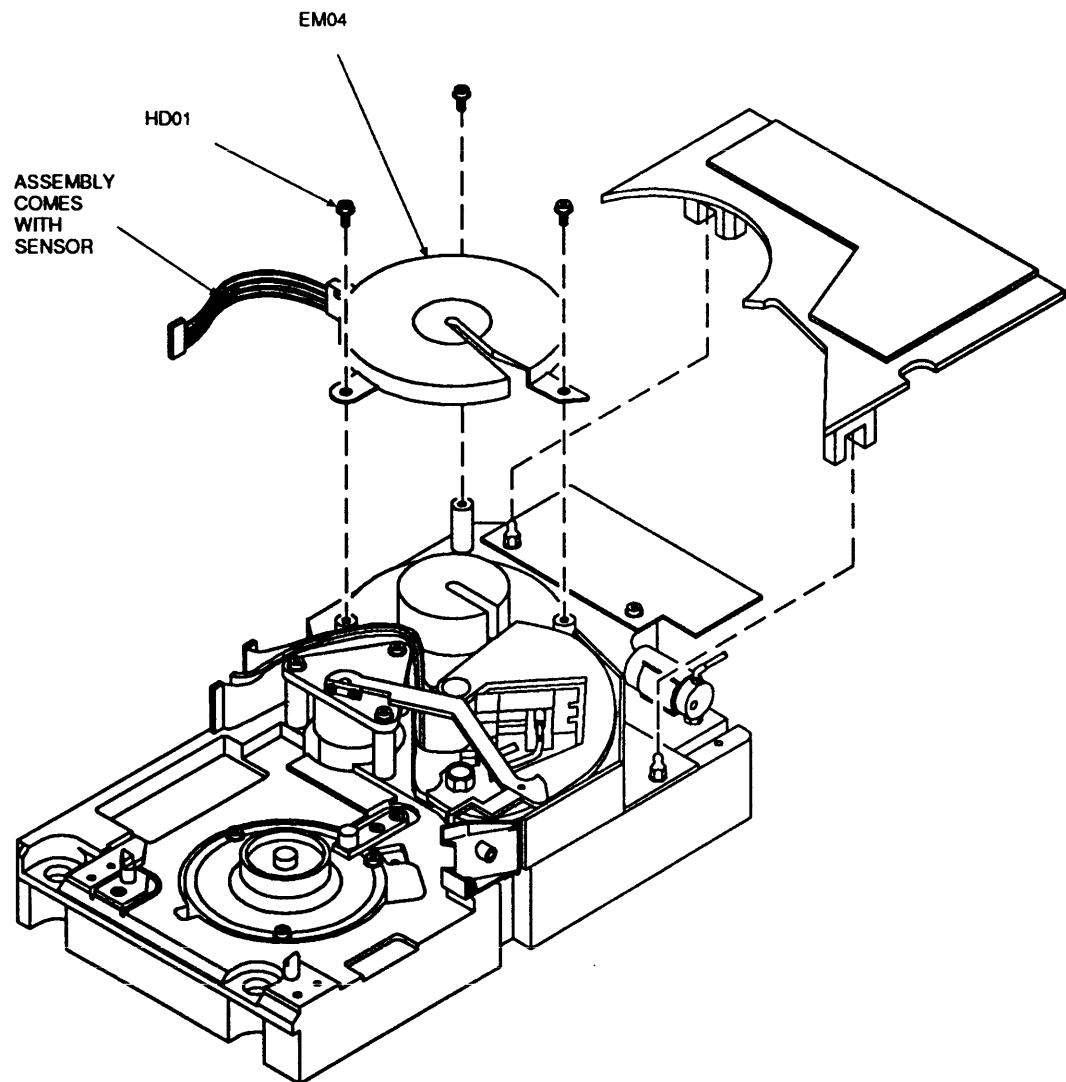


Figure 5. Electro-Mechanical Group
Locator Leader Block Assembly

4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM04	288552XX	LOCATOR LEADER BLK ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCR, PHT, SEMS, 6-32X3/8, ZINC	3

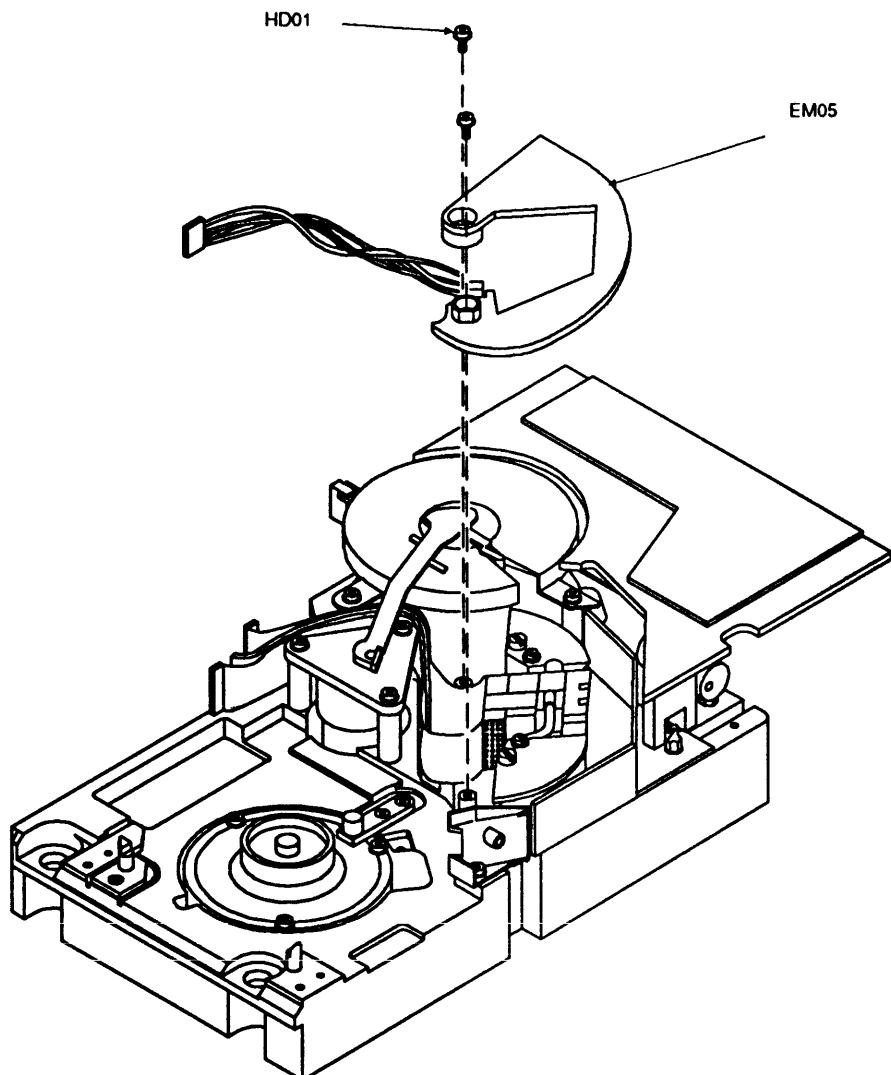


Figure 6. Electro-Mechanical Group
Thread Arm Cam Assembly

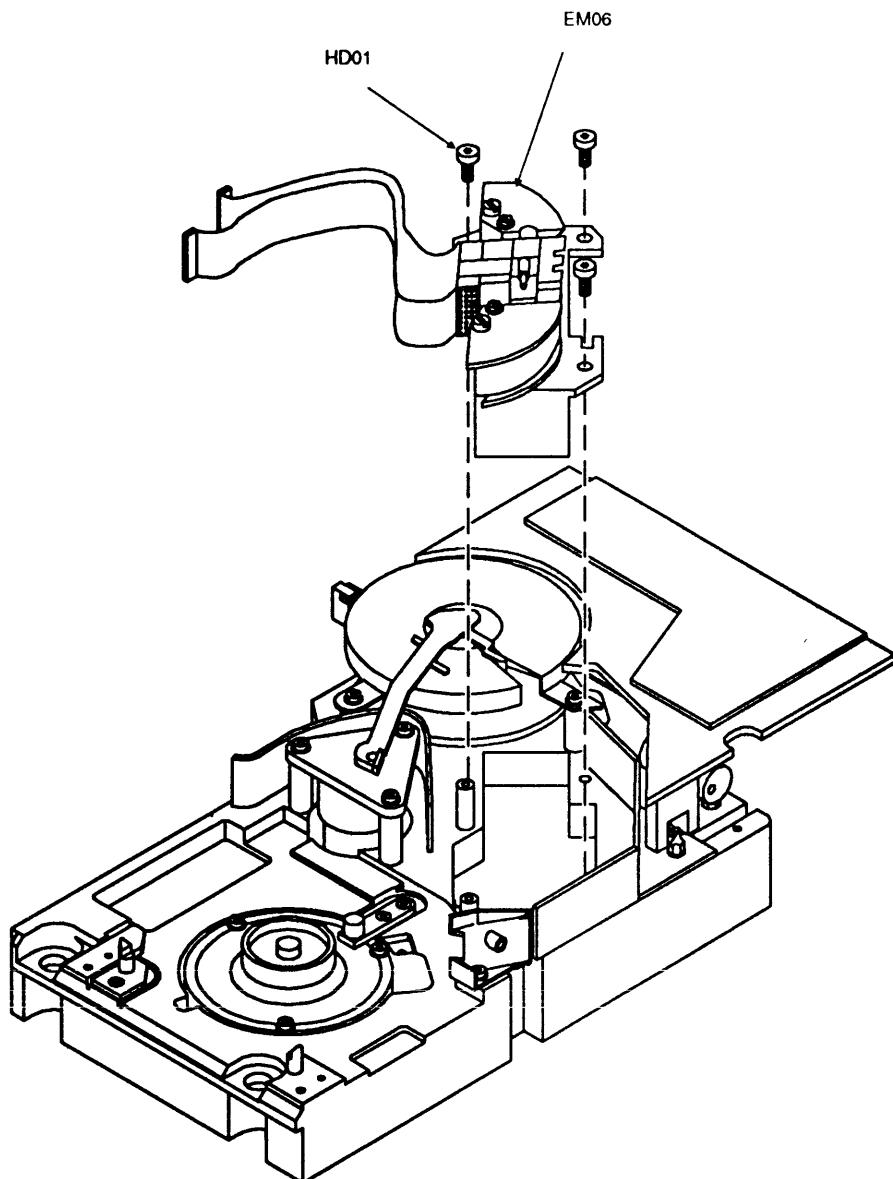
4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM05	288554XX	THREAD ARM CAM ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCR, PHT, SEMS, 6-32X3/8, ZINC	2



**Figure 7. Electro-Mechanical Group
Head FRU Assembly**

4220 Assembly**Electro-Mechanical Group, cont.**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM06	404323101	HEAD FRU ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCR, PHT, SEMS, 10-32X1/2, ZINC	3

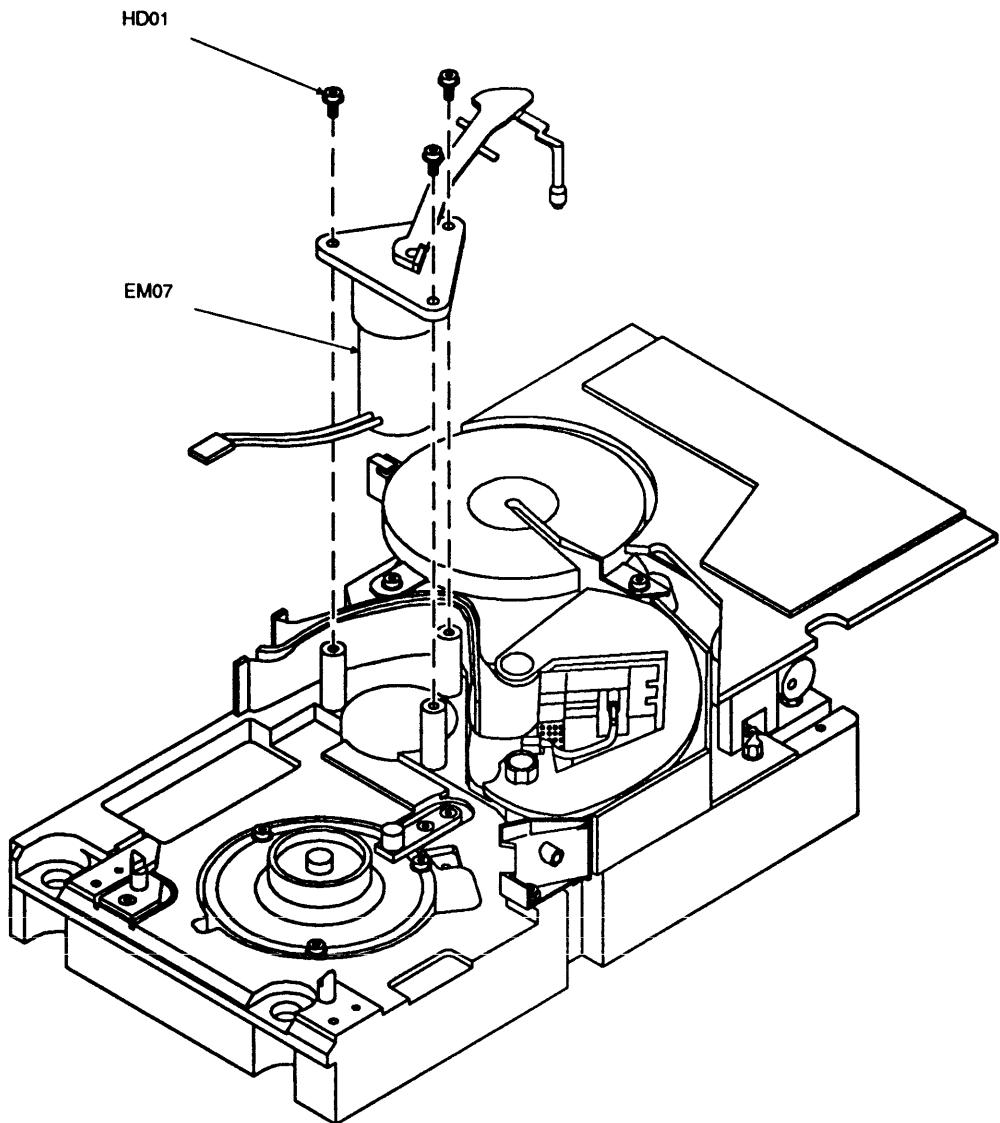


Figure 8. Electro-Mechanical Group
Thread Arm Motor

28742001

4220 Cartridge Tape Subsystem
ILLUSTRATED PARTS CATALOG

StorageTek.

4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM07	288534XX	MTR/THR ARM ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCR, PHT, SEMS, 6-32X3/8, ZINC	3

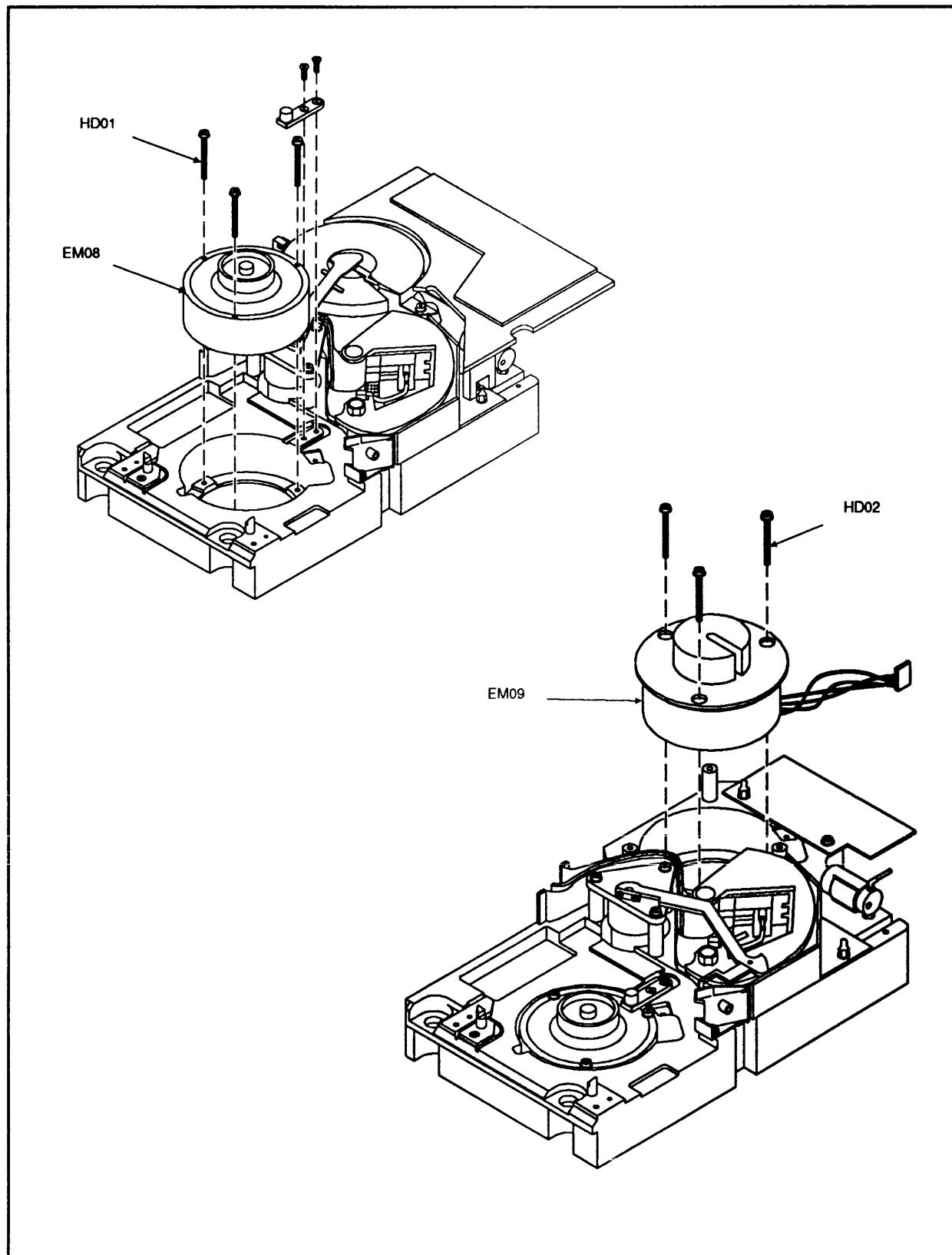


Figure 9. Electro-Mechanical Group
Supply and Take-Up Motors

4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	Description	<u>Qty</u>
EM08	288532XX	SUPPLY MOTOR ASSY	1
EM09	288533XX	TAKE-UP MOTOR ASSY	1

Attaching Hardware

<u>Fig Number</u>	Description	<u>Qty</u>
HD01	SCR, PHT, SEMS, 6-32X1-5/8, Z	3
HD02	SCR, PHT, SEMS, 6-32X1-5/8, Z	3

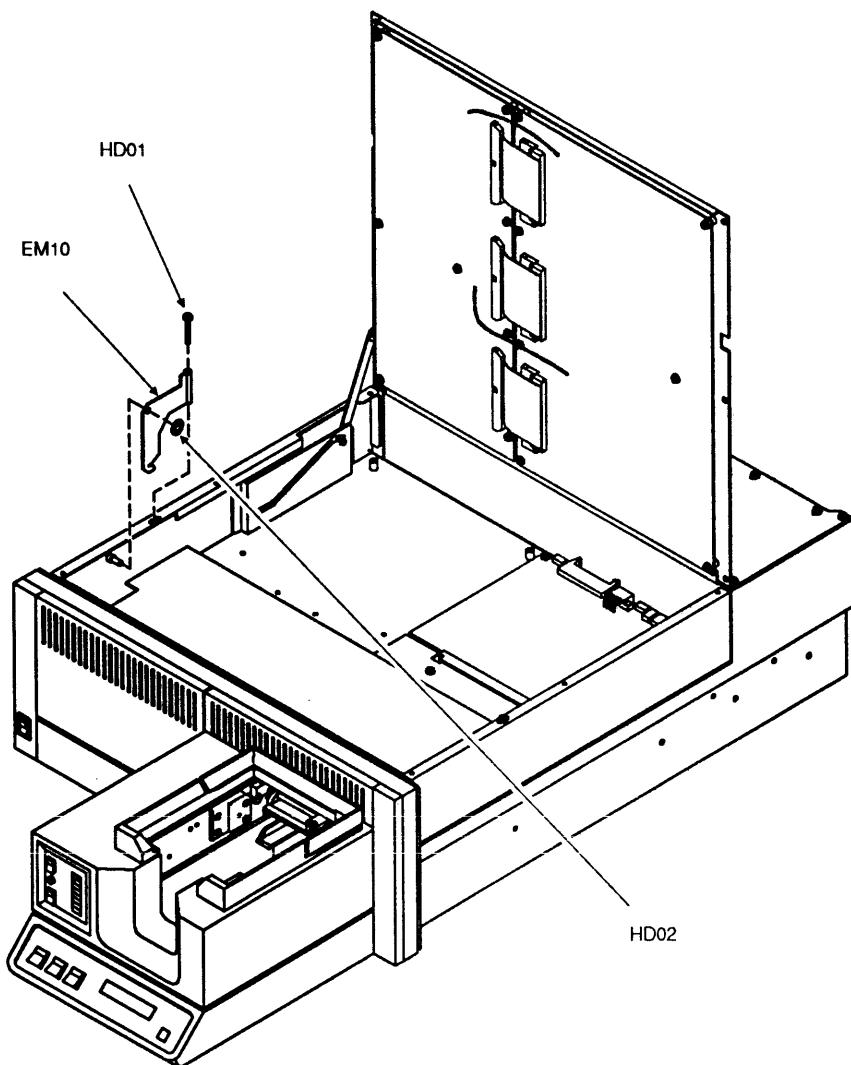


Figure 10. Electro-Mechanical Group
Cover Latch

4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM10	287532XX	LATCH, COVER	2

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01		SCREW, PHT, SEMS, 6-32X1-5/8, ZINC	1
HD02	24020106	RING RET, R-C P/O-EXT, .184	1

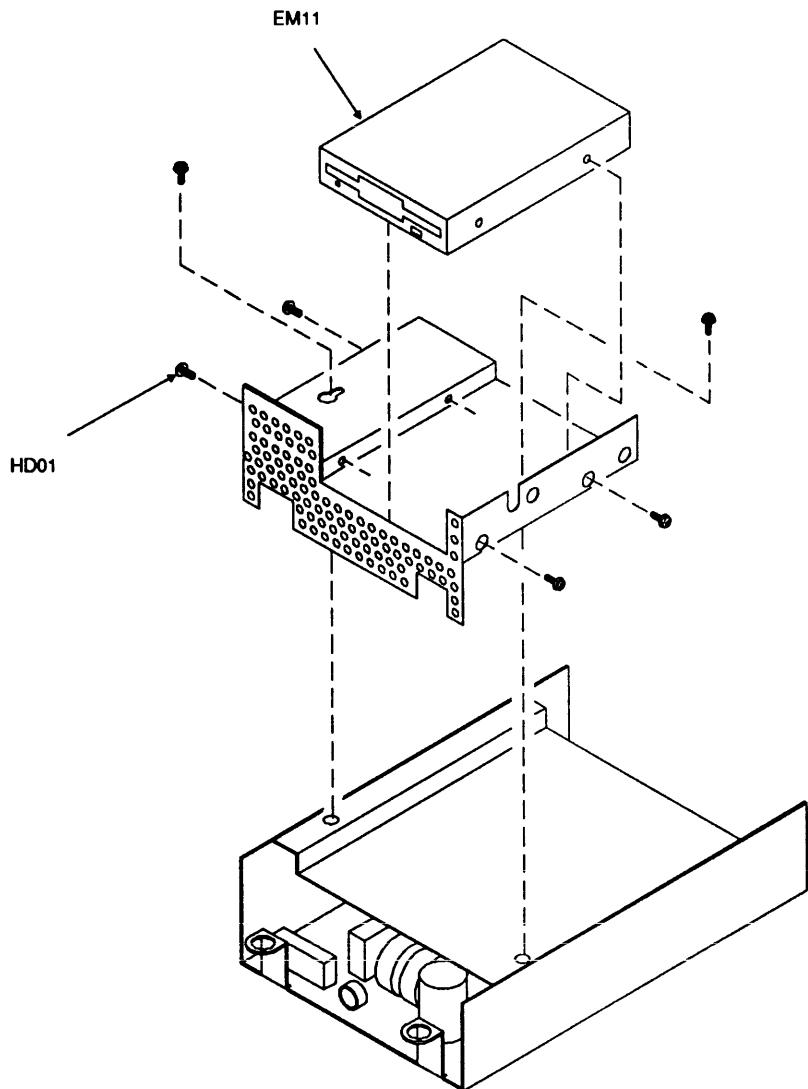


Figure 11. Electro-Mechanical Group
3.5 Inch Floppy Drive

4220 Assembly

Electro-Mechanical Group, cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
EM11	289439XX	DRIVE, FLOPPY, 3.5 INCH	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8, Z	4

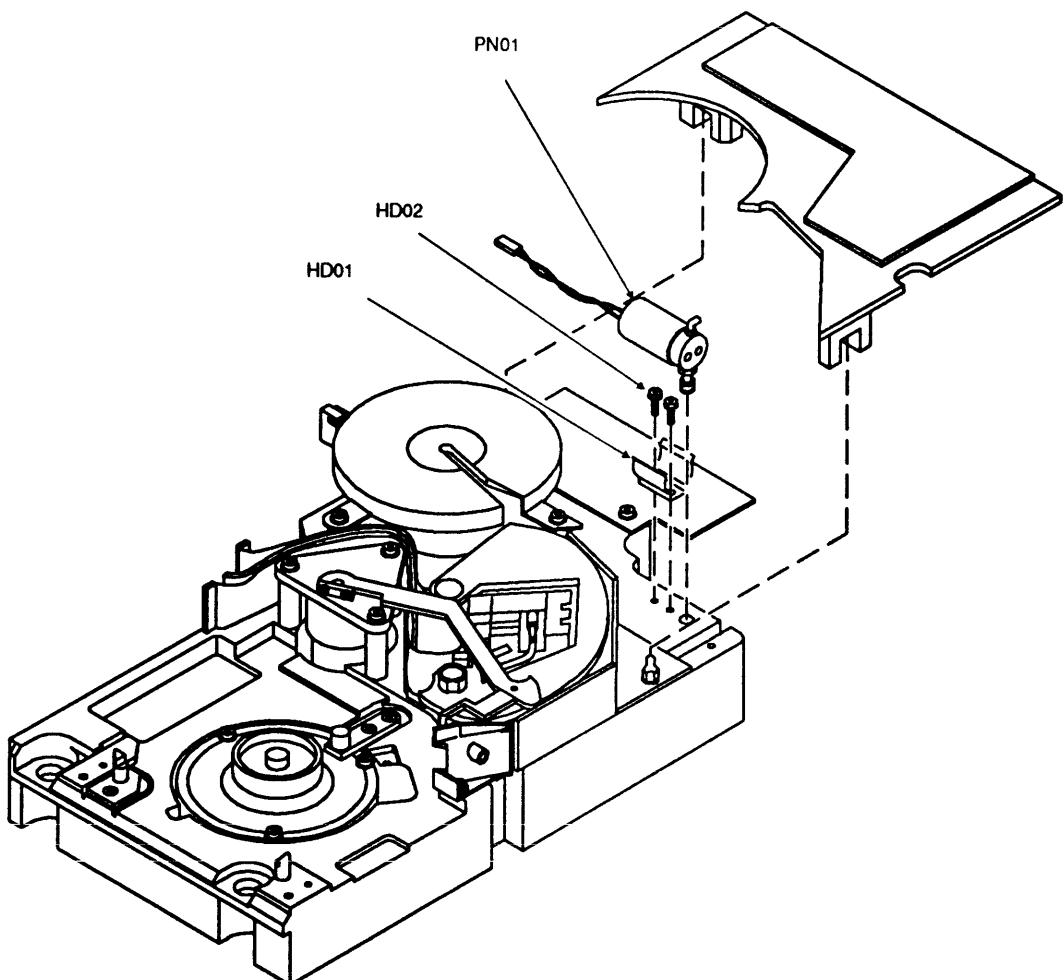


Figure 12. Pneumatics Group
Air Valve Assembly

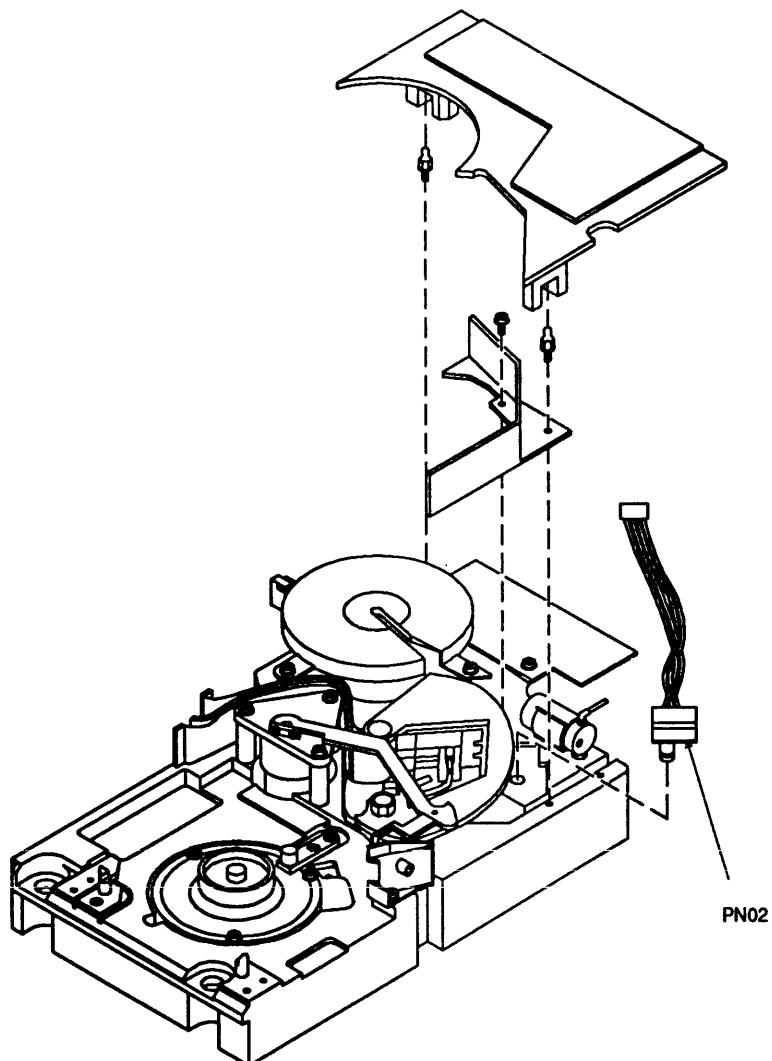
4220 Assembly

Pneumatics Group

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
PN01	288536XX	AIR VALVE ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01	24021716	CLIP, SPRING	1
HD02		SCR, PHT, SEMS, 4-40X3/8, Z	2



PRESSURE TRANSDUCER SNAPS INTO POSITION.
IT HAS NO MOUNTING HARDWARE.

Figure 13. Pneumatics Group
Pressure Transducer Assembly

28742001

4220 Cartridge Tape Subsystem
ILLUSTRATED PARTS CATALOG

StorageTek

4220 Assembly

Pneumatics Group

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
PN02	288551XX	PRESSURE TRANSDUCER ASSY	1

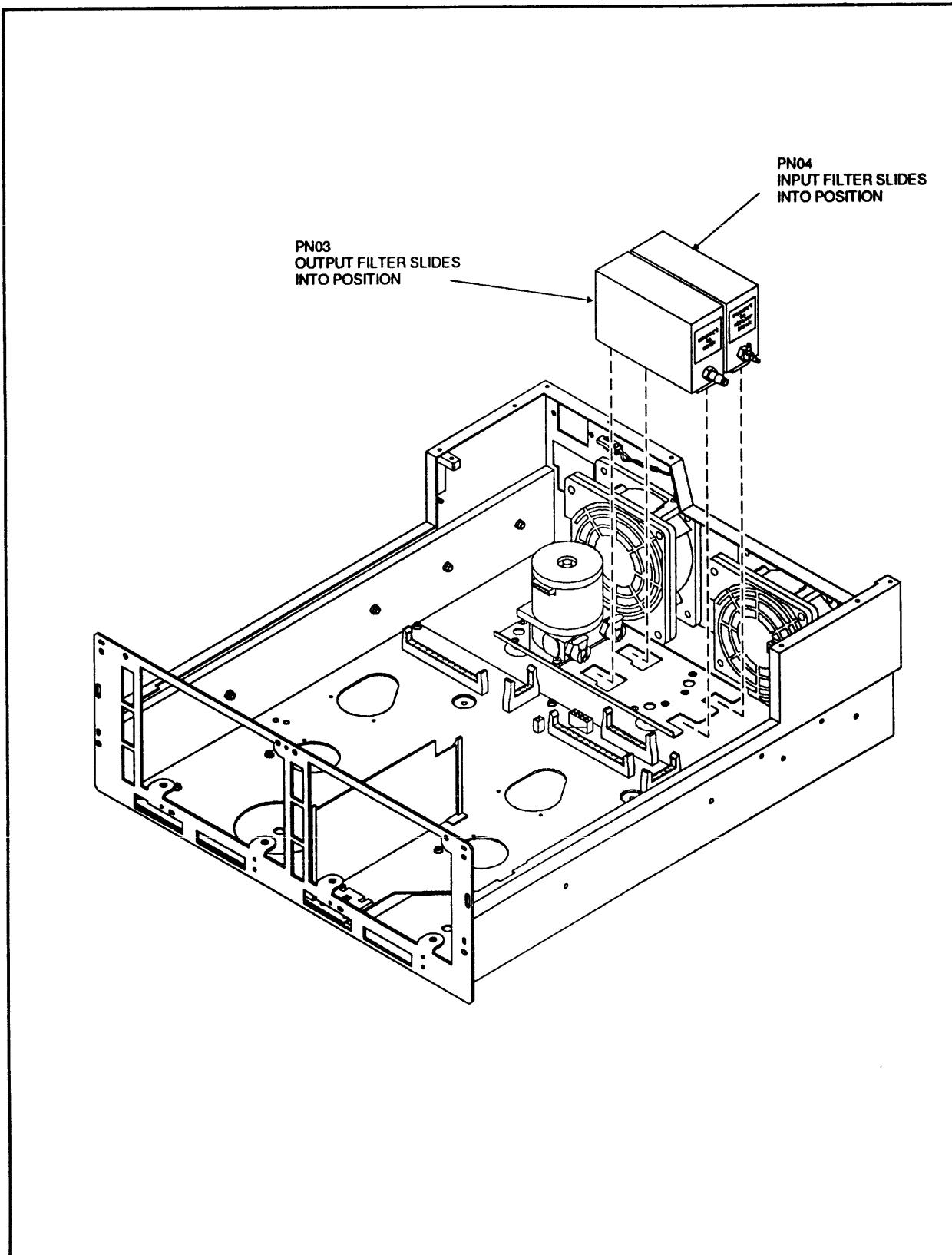


Figure 14. Pneumatics Group
Input Filter and Output Filter

4220 Assembly

Pneumatics Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
PN03	288548XX	OUTPUT FILTER SUB-ASSY	1
PN04	288549XX	INPUT FILTER SUB-ASSY	1

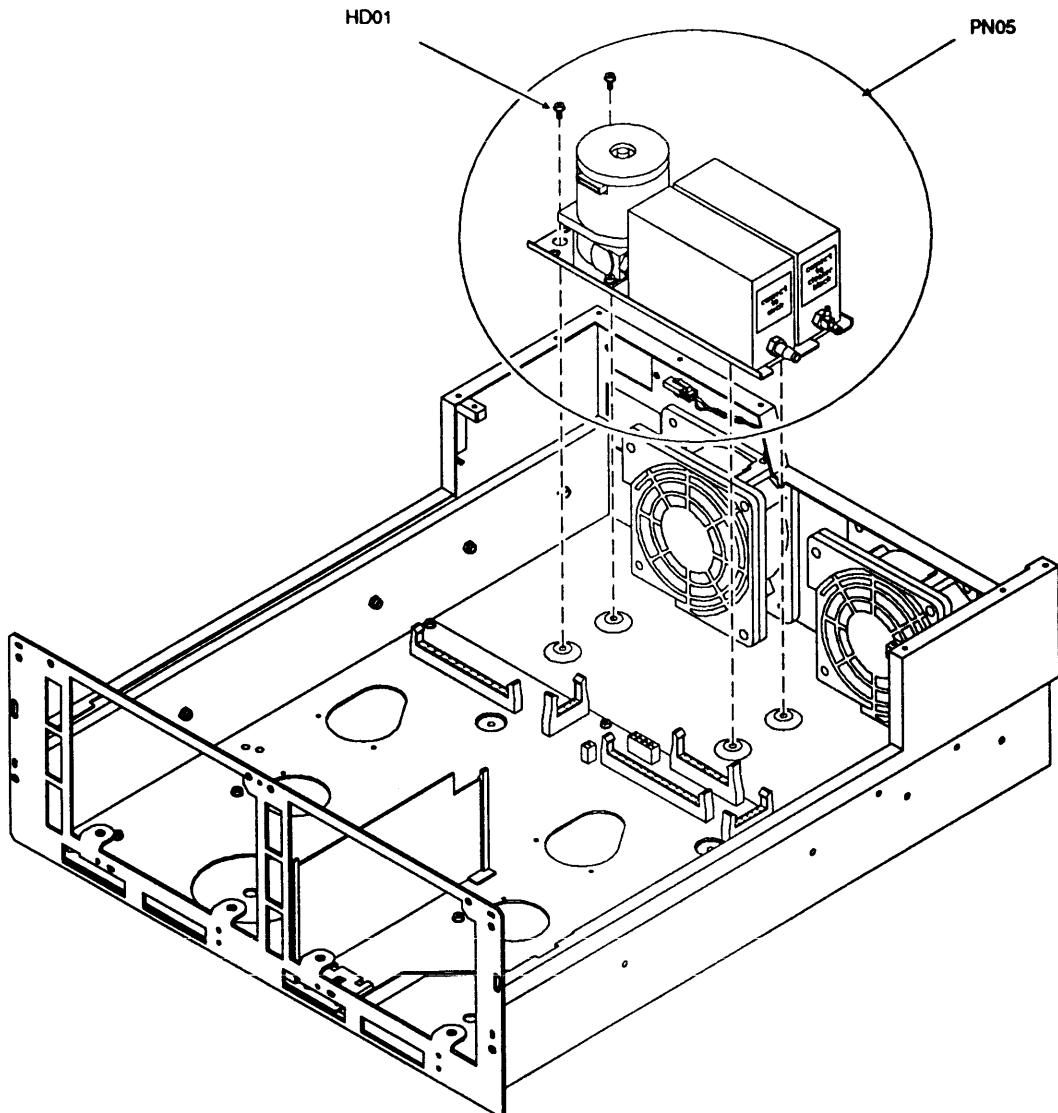


Figure 15. Pncumatics Group
Pneumatics Assembly

4220 Assembly

Pneumatics Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
PN05	289438XX	PNEUMATICS ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8, Z	4

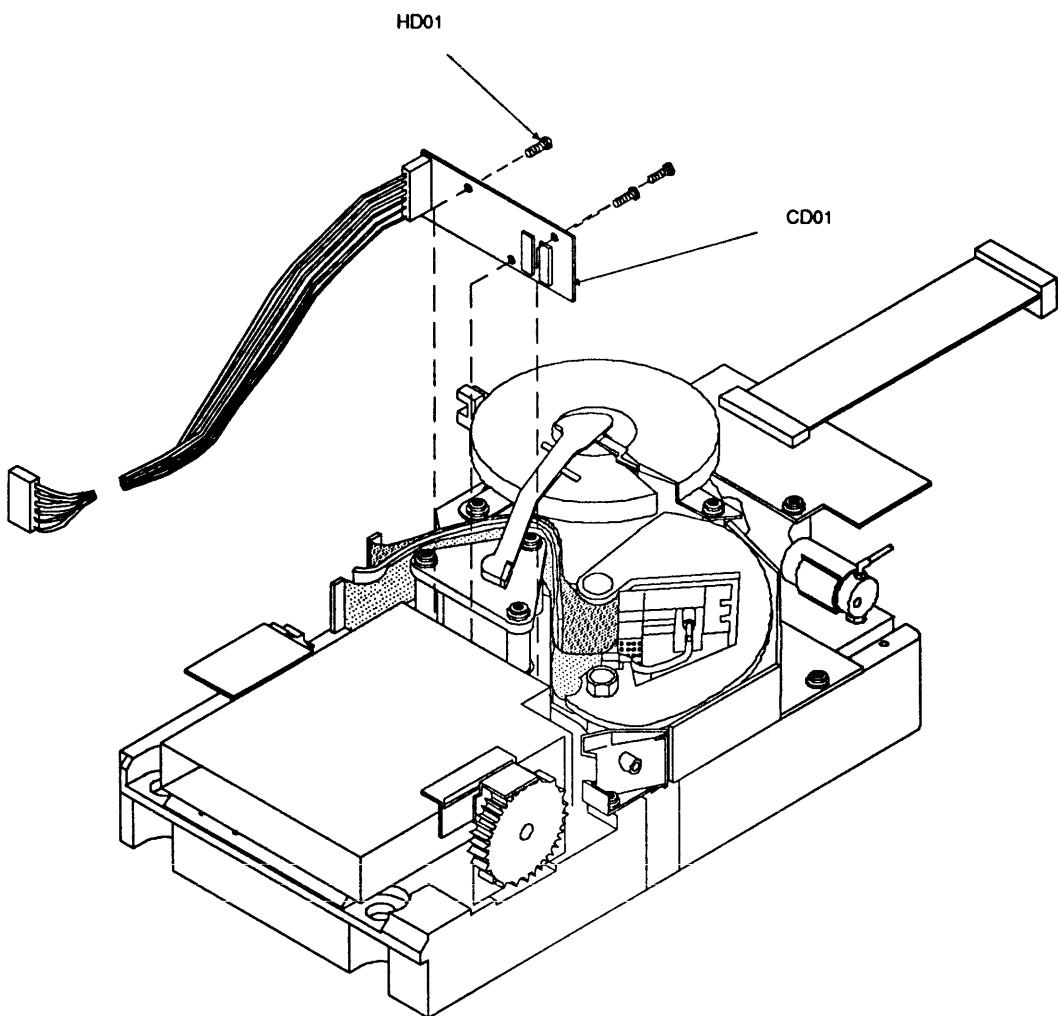


Figure 16. Card Group
ML Card

28742001

4220 Cartridge Tape Subsystem
ILLUSTRATED PARTS CATALOG

StorageTek

4220 Assembly

Card Group

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD01	29330XXX	CKT CD ML ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, THRFM, PHT, 4-20X3/8	3

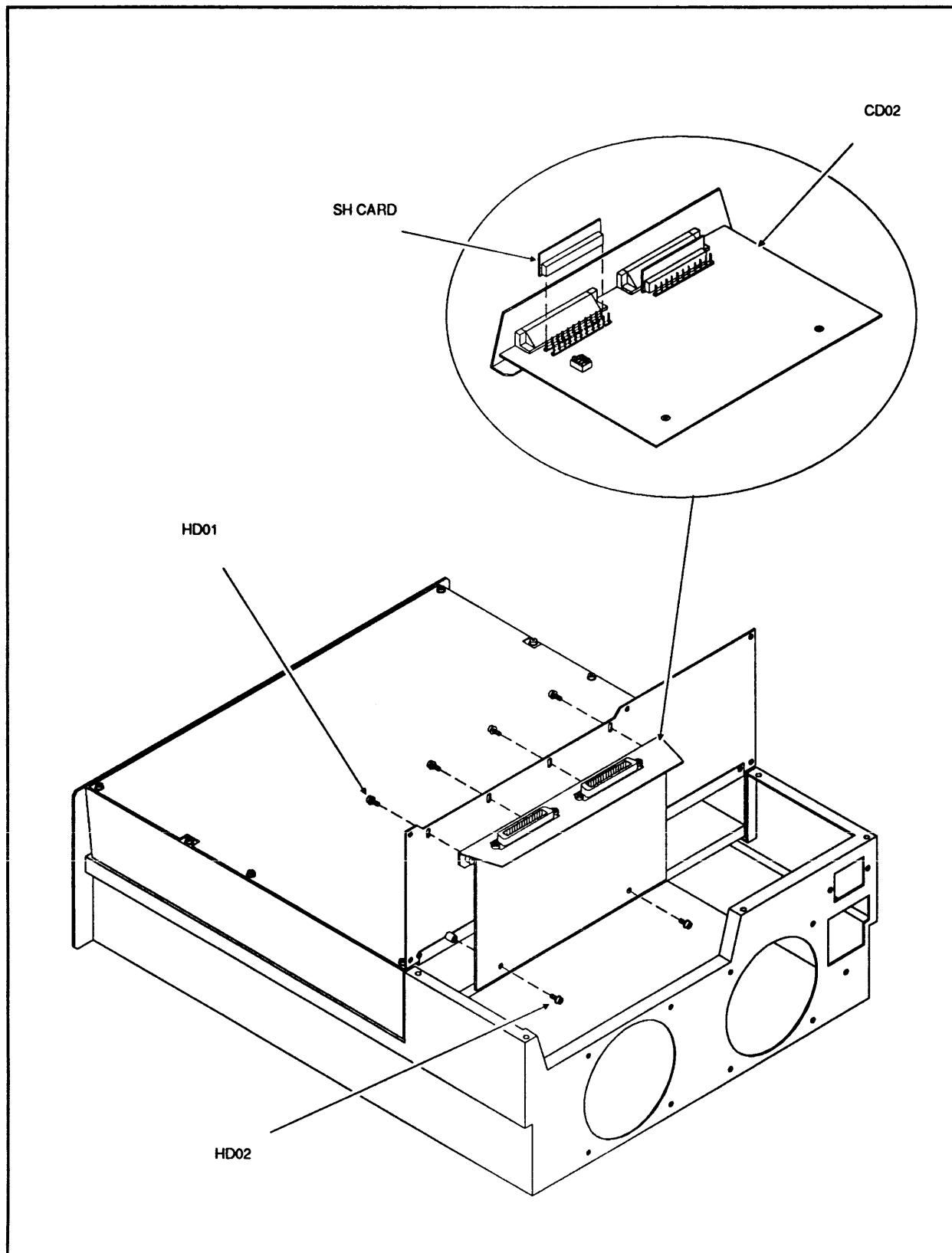


Figure 17. Card Group
SZ/SZI Card

4220 Assembly

Card Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD02	29306XXX	CKT CD SZ/SZI ASSY	1

NOTE: SZ/SZI card comes with SH card attached.

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X1/4, Z	4
HD02	SCREW, PHT, SEMS, 6-32X3/8, Z	2

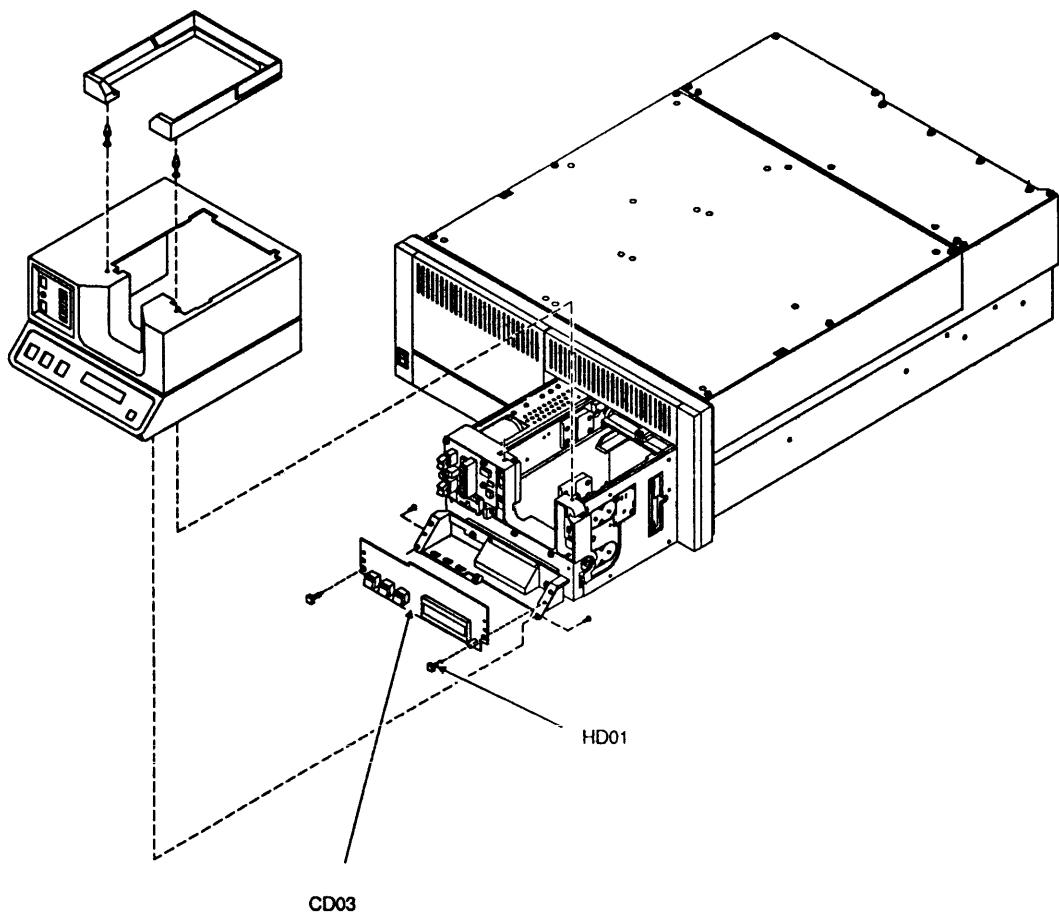


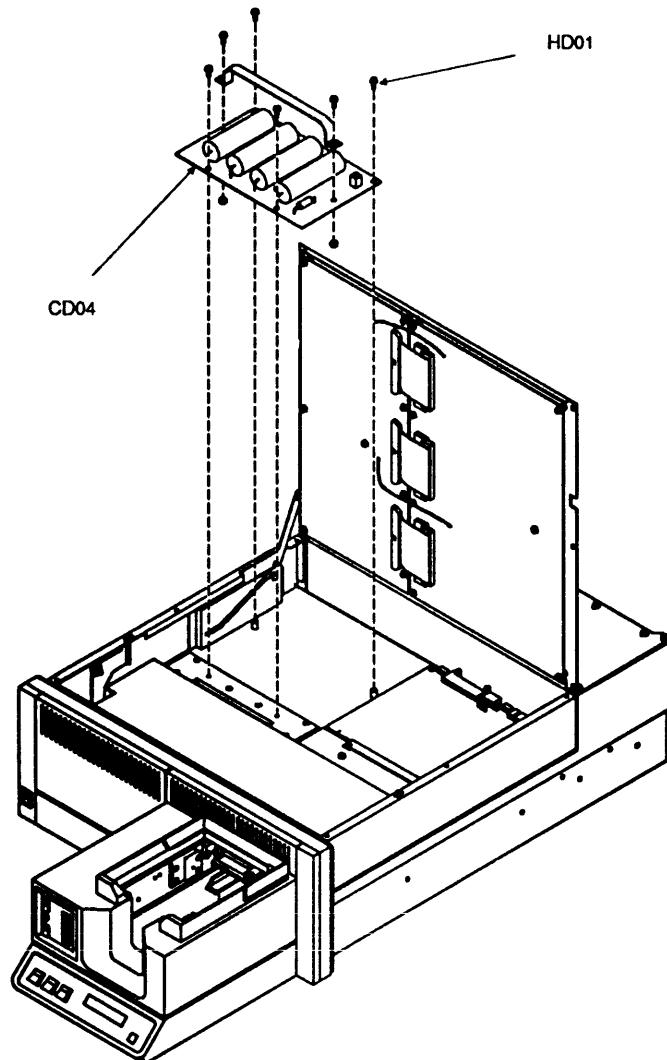
Figure 18. Card Group
DP Card

4220 Assembly**Card Group, cont.**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD03	29318XXX	CKT CD DP ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01	2000330101	RIVET, MTG BTN, 5/32, N	2
HD02		SCREW, PHT, SEMS, 6-32X3/8, Z	2
HD03		SCREW, MACH, TXPH, 6-32X7/8, Z	2



NOTE: WHEN THE DRIVE IS ON THE
LEFT SIDE, THE CP CARD IS
TRANSPOSED WITH THE
SM AND SP CARDS.

Figure 19. Card Group
CP Card

4220 Assembly

Card Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD04	29333XXX	CKT CD CP ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8	4

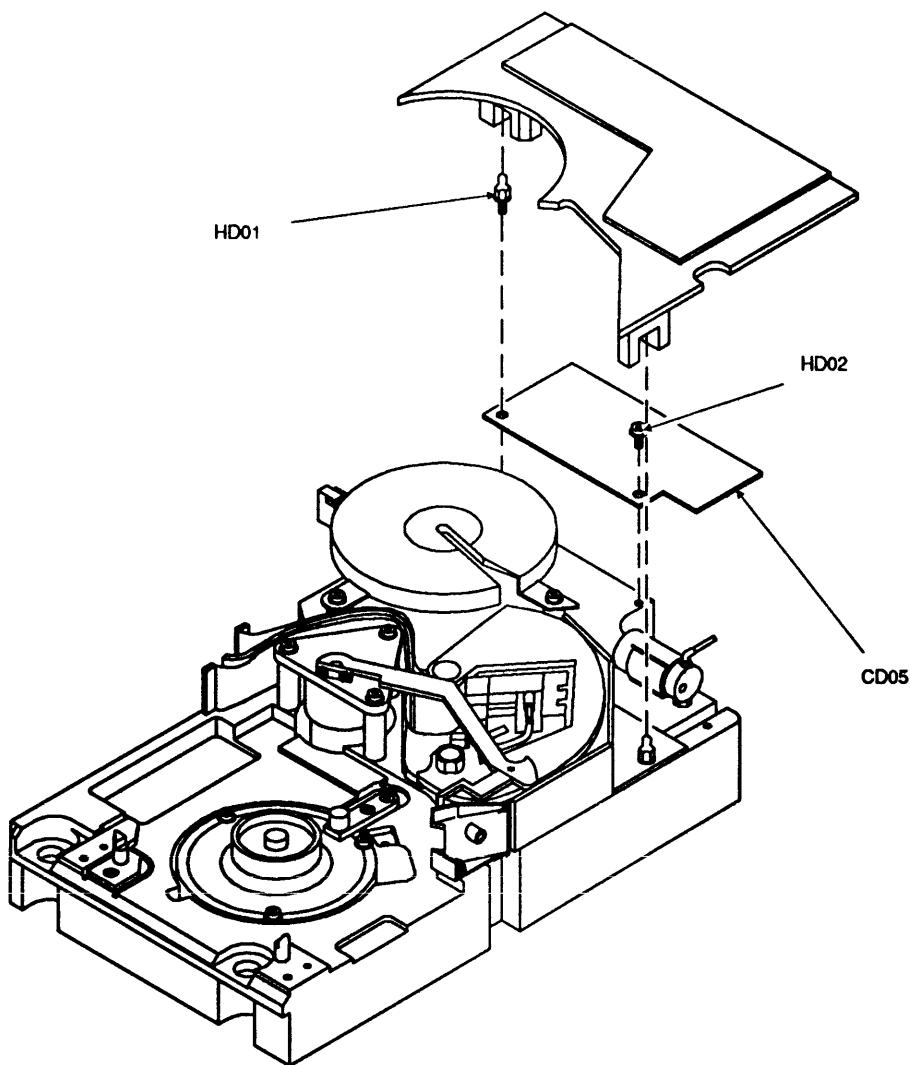


Figure 20. Card Group
ST Card

4220 Assembly

Card Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD05	29312XXX	CKT CD ST ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	BALL STUD, .406X.218	1
HD02	SCREW, PHT, SEMS, 6-32X1/2, ZINC	1

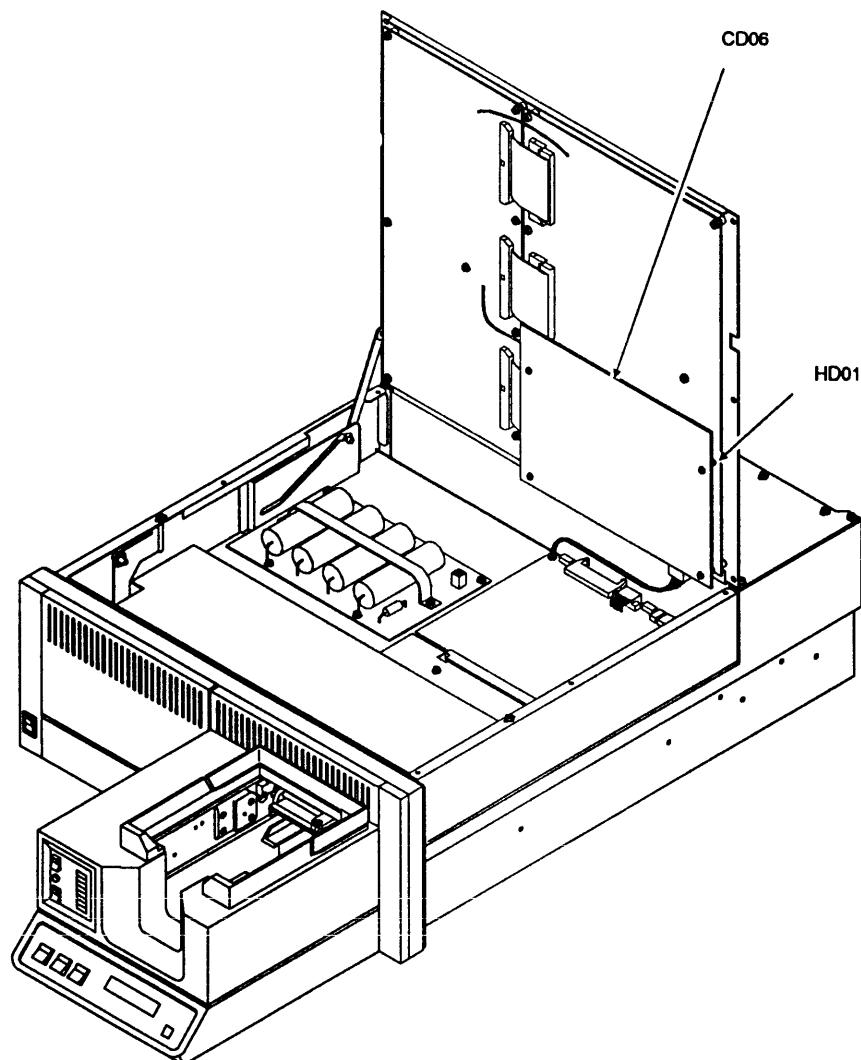


Figure 21. Card Group
DCI Card

4220 Assembly

Card Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD06	29402XXX	CKT CD DCI ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SPACER, ICRC, M/F	4

IDENTICAL MOUNTING HARDWARE
IS USED FOR THESE TWO CARDS.
ONE SCREW IS CALLED OUT ON
THIS ILLUSTRATION BUT THERE
ARE FIFTEEN IN ACTUAL USE.

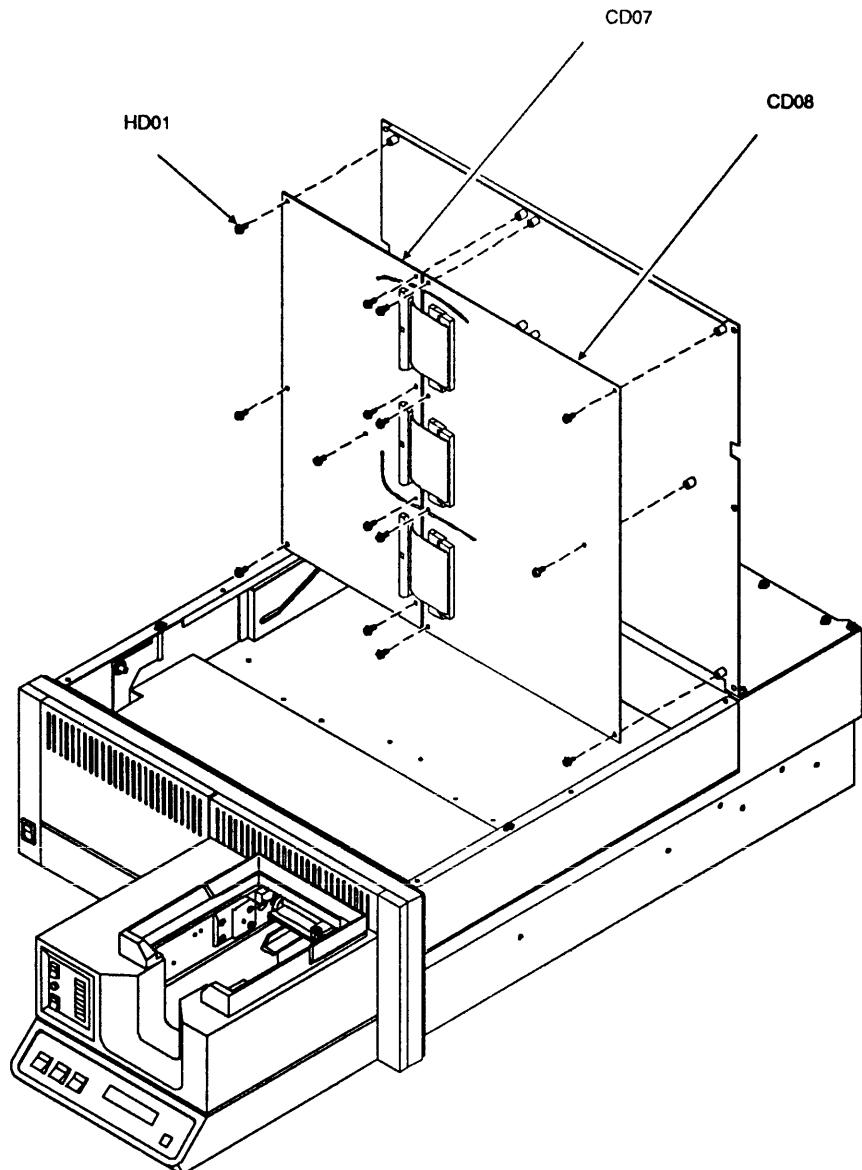


Figure 22. Card Group
SB/SBI and RI Cards

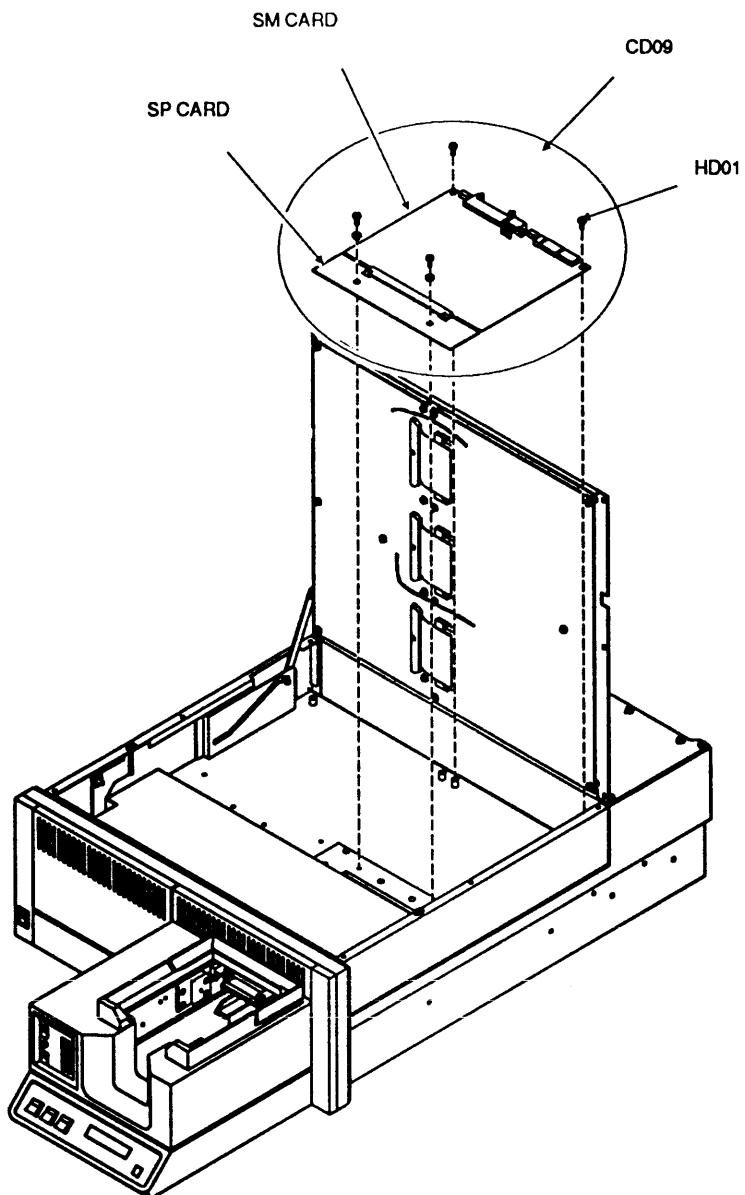
4220 Assembly

Card Group, cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD07	29291XXX	CKT CD RI ASSY	1
CD08	29204XXX	CKT CD SB/SBI ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8	15



NOTE: WHEN THE DRIVE IS ON THE LEFT SIDE,
THE SM AND SP CARDS ARE TRANSPOSED
WITH THE CP CARD.

Figure 23. Card Group
SM and SP Cards

4220 Assembly**Card Group, cont.**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD09	29800XXX	SM/SP FRU KIT	1

The SM and SP cards must be ordered together as a unit.
Replacing only one may cause the failure of the other.

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8	4

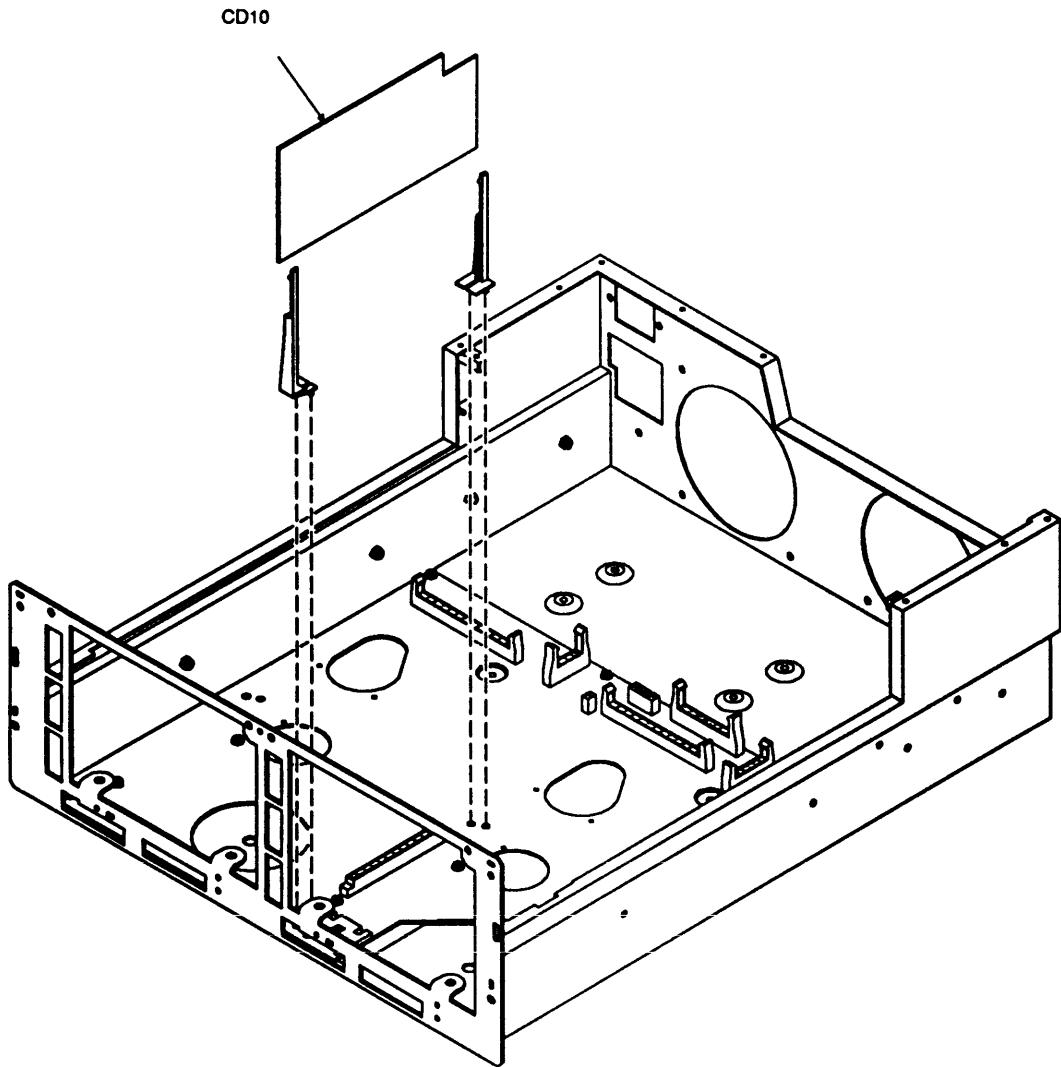


Figure 24. Card Group
HI Card

4220 Assembly**Card Group, cont.**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
CD09	29294XXX	CKT CD HI ASSY	1

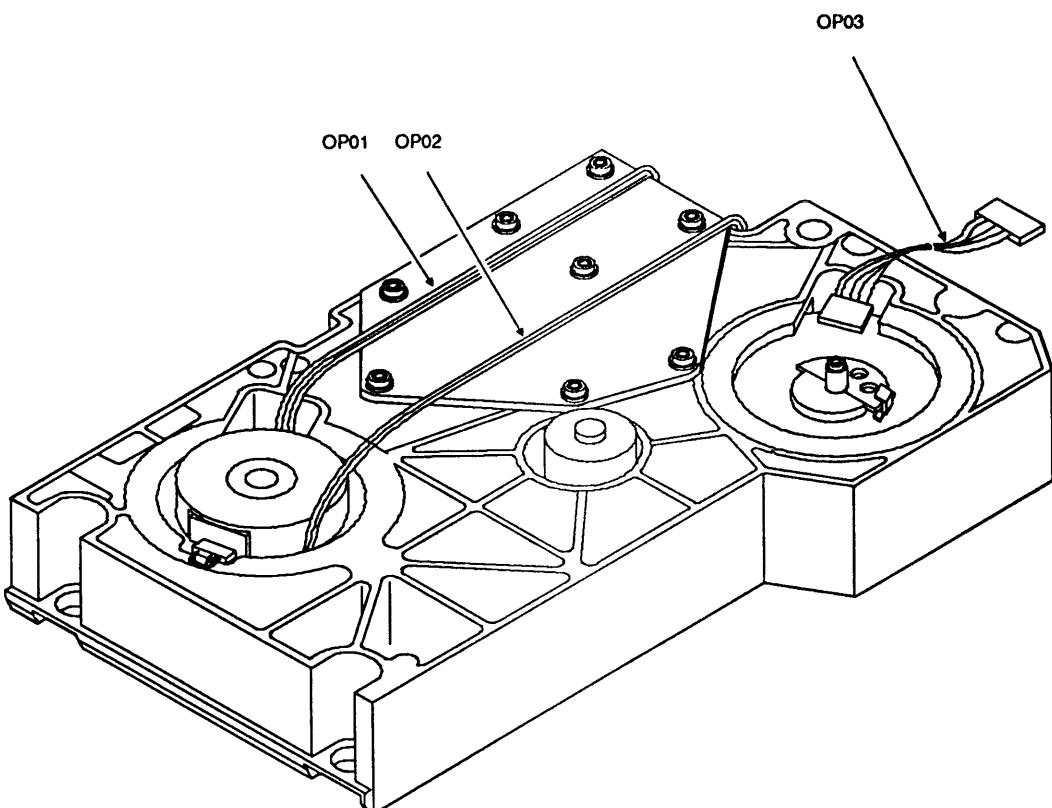


Figure 25. 4220 Orderable Parts
Supply Motor/SM, Take-Up Motor/SM and Tach/ST Cables

4220 Assembly

Orderable Parts (non-FRU)

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP01	289534XX	CBL, SUPPLY MTR/SM	1
OP02	289530XX	CBL, TACH/ST	1
OP03	289532XX	CBL, TAKE UP MTR/SM	1

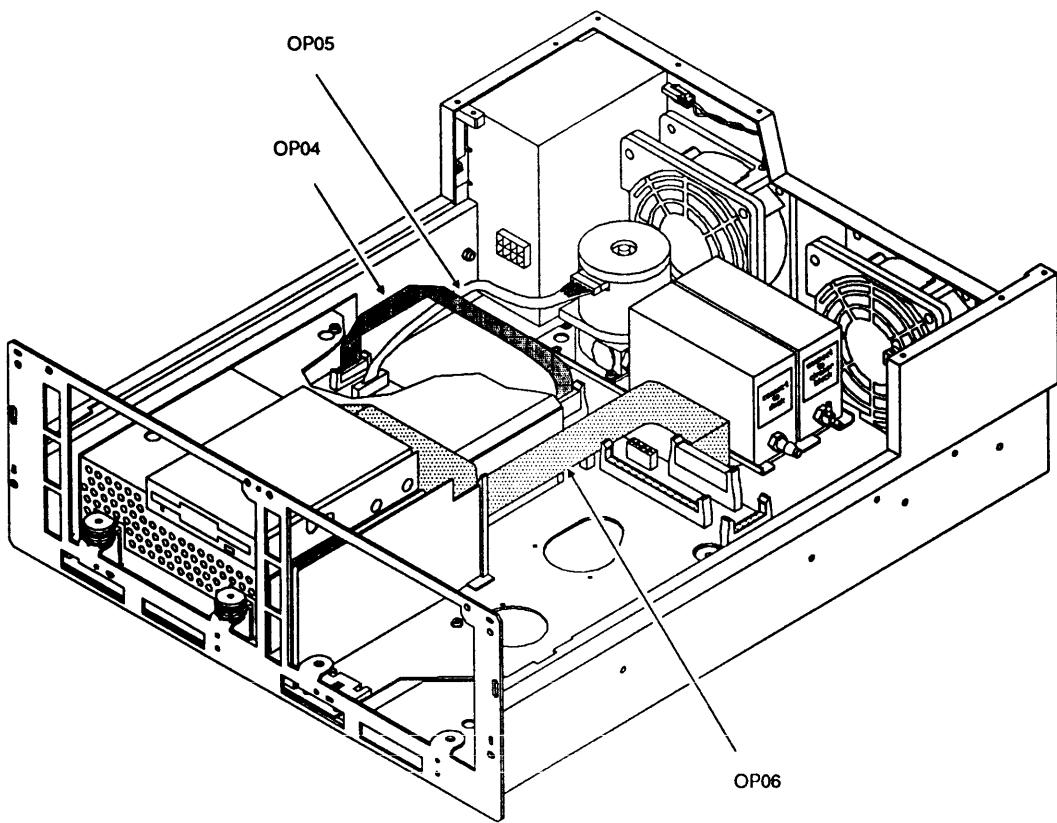


Figure 26. 4220 Orderable Parts
PI/BT, PI/Pump and BT/Floppy Cables

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP04	290504XX	CBL, PI/BT LOGIC	1
OP05	290507XX	CBL, PI/PUMP	1
OP06	290502XX	CBL, BT/FLOPPY	1

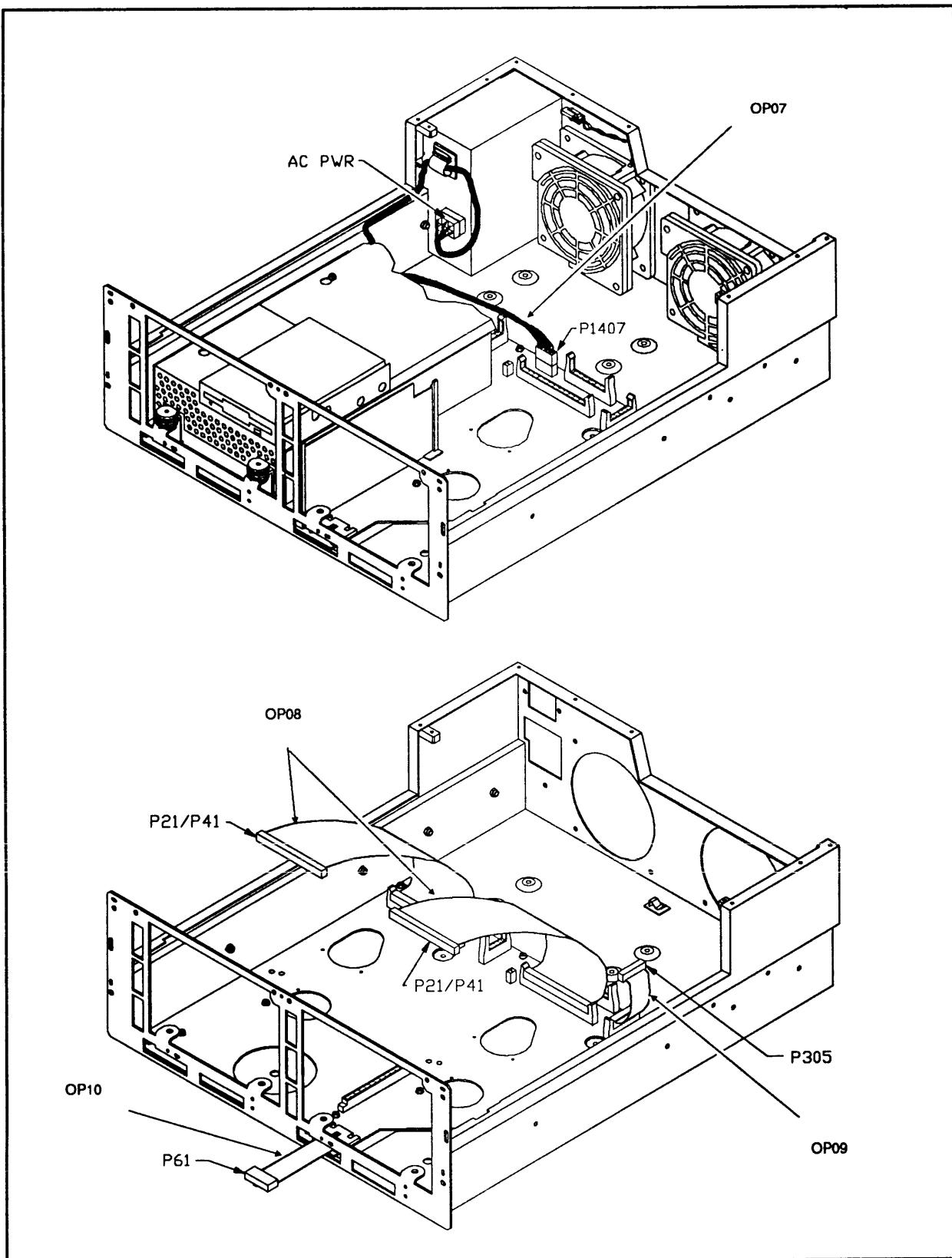


Figure 27. 4220 Orderable Parts
PI/BT Power, RI/BT, ST/BT and ML/BT Cables

4220 Assembly**Orderable Parts (non-FRU), cont.**

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP07	290503XX	CBL, PWR PI/BT	1
OP08	289535XX	CBL, RI/BT	2
OP09	289536XX	CBL, ST/BT	1
OP10	289540XX	CBL, ML DISP/BT	1

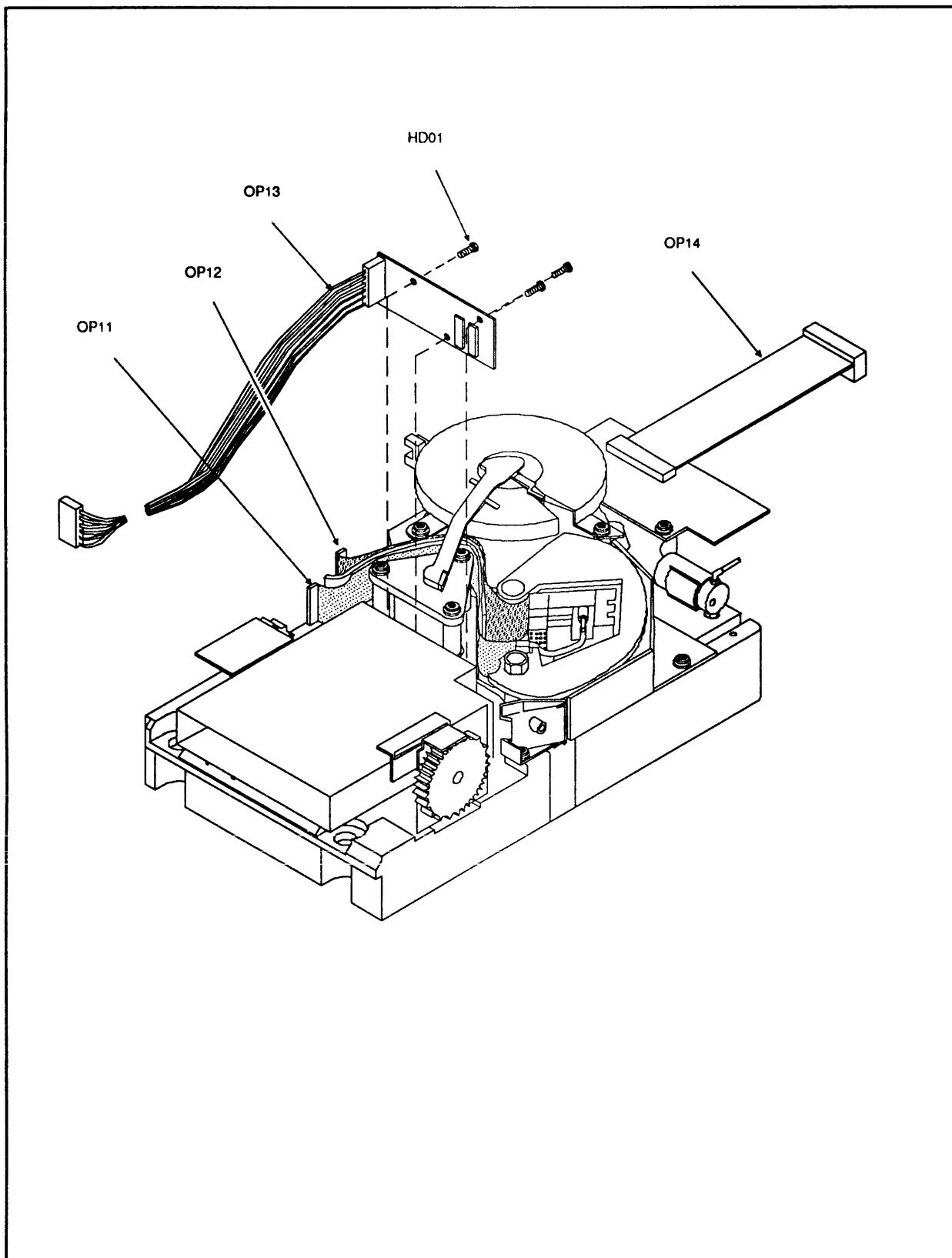


Figure 28. 4220 Orderable Parts
Read/Write Flex Circuits, ML/Display and SM/ST Cables

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP11	290981XX	FLEX CIRCUIT WRITE ASSY	1
OP12	290980XX	FLEX CIRCUIT READ ASSY	1
OP13	289542XX	CBL, ML/DISP	1
OP14	289538XX	CBL, SM/ST	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, THRFM, PHT, 4-20X3/8	3

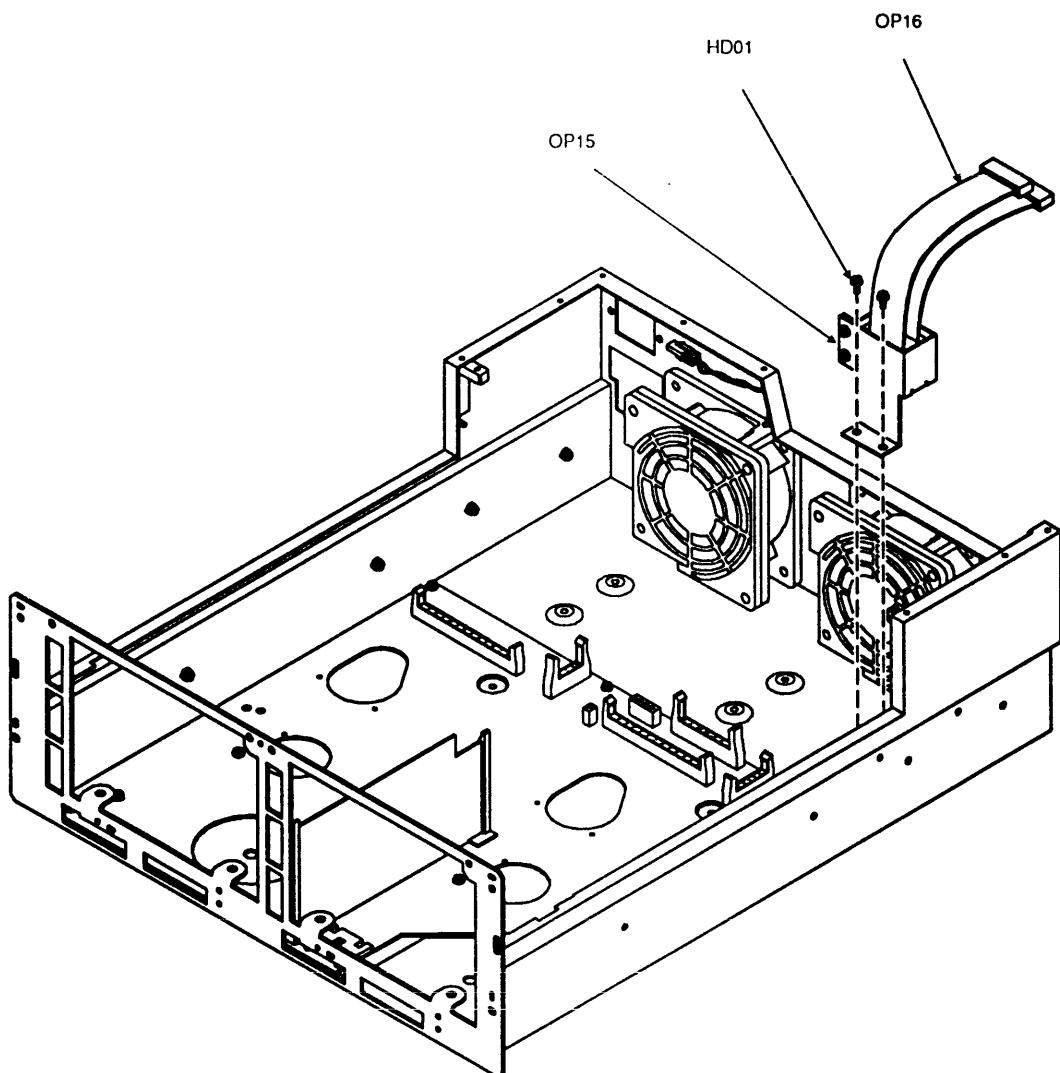


Figure 29. 4220 Orderable Parts
SB/SBI I/O Cable and Ferrite Bracket

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP15	288441XX	FERRITE BRKT	1
OP16	289543XX	CBL, SB/SBI I/O	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X1/4, Z	2

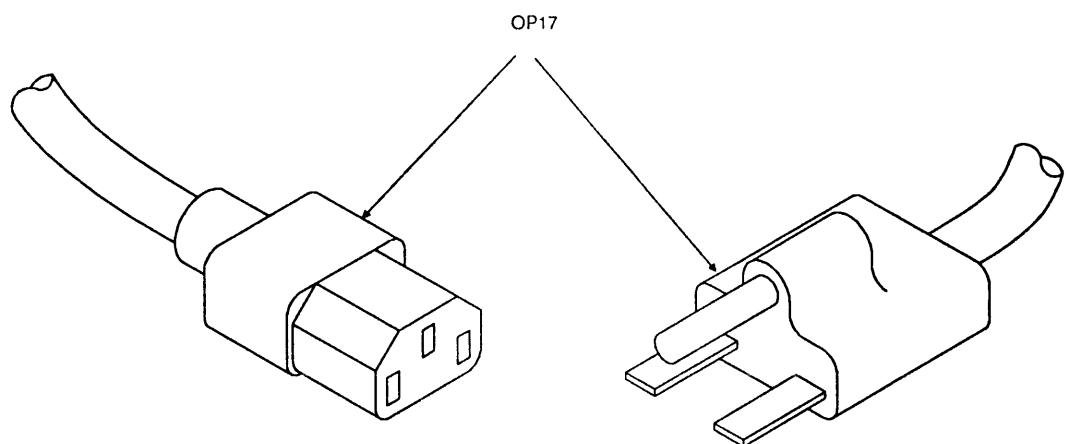


Figure 30. 4220 Orderable Parts
Power Cable

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP17	24055634	POWER CABLE	1

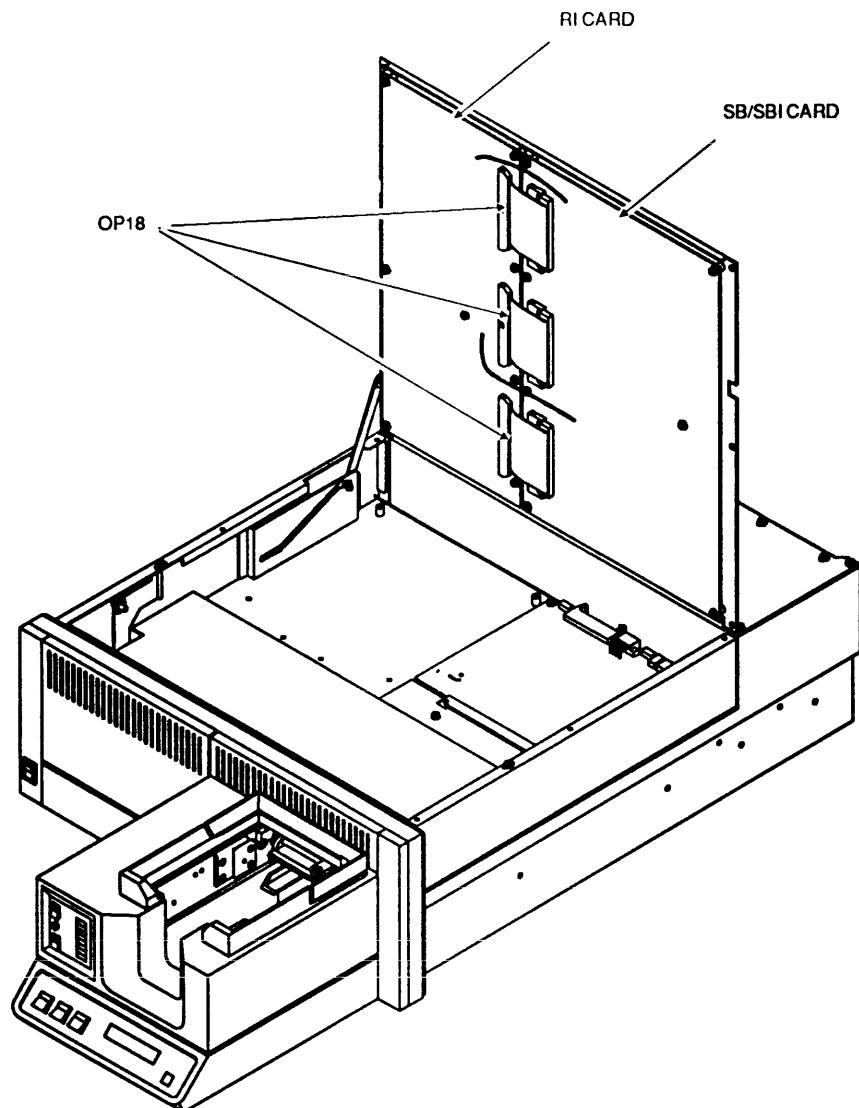


Figure 31. 4220 Orderable Parts
RI/SB/SBI Cables

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP18	289537XX	CBL, RI/SB/SBI	3

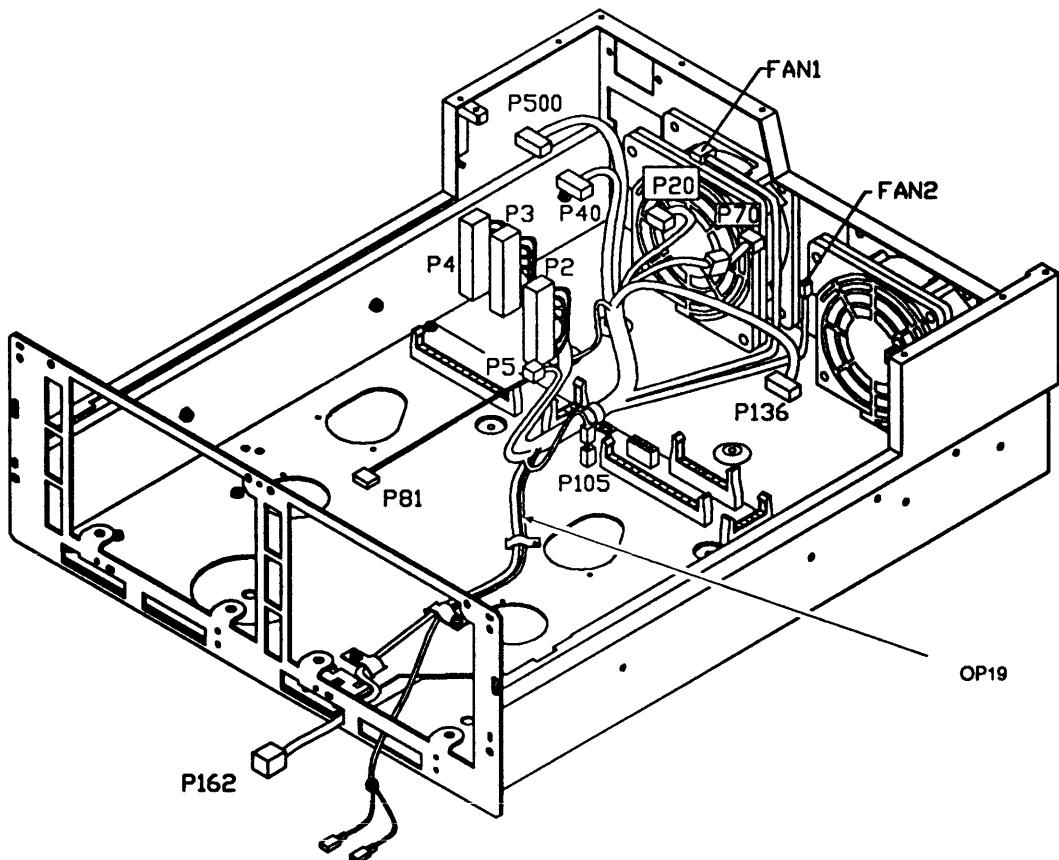


Figure 32. 4220 Orderable Parts
DC Cable

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP19	290500XX	CBL, DC POWER 4220	1

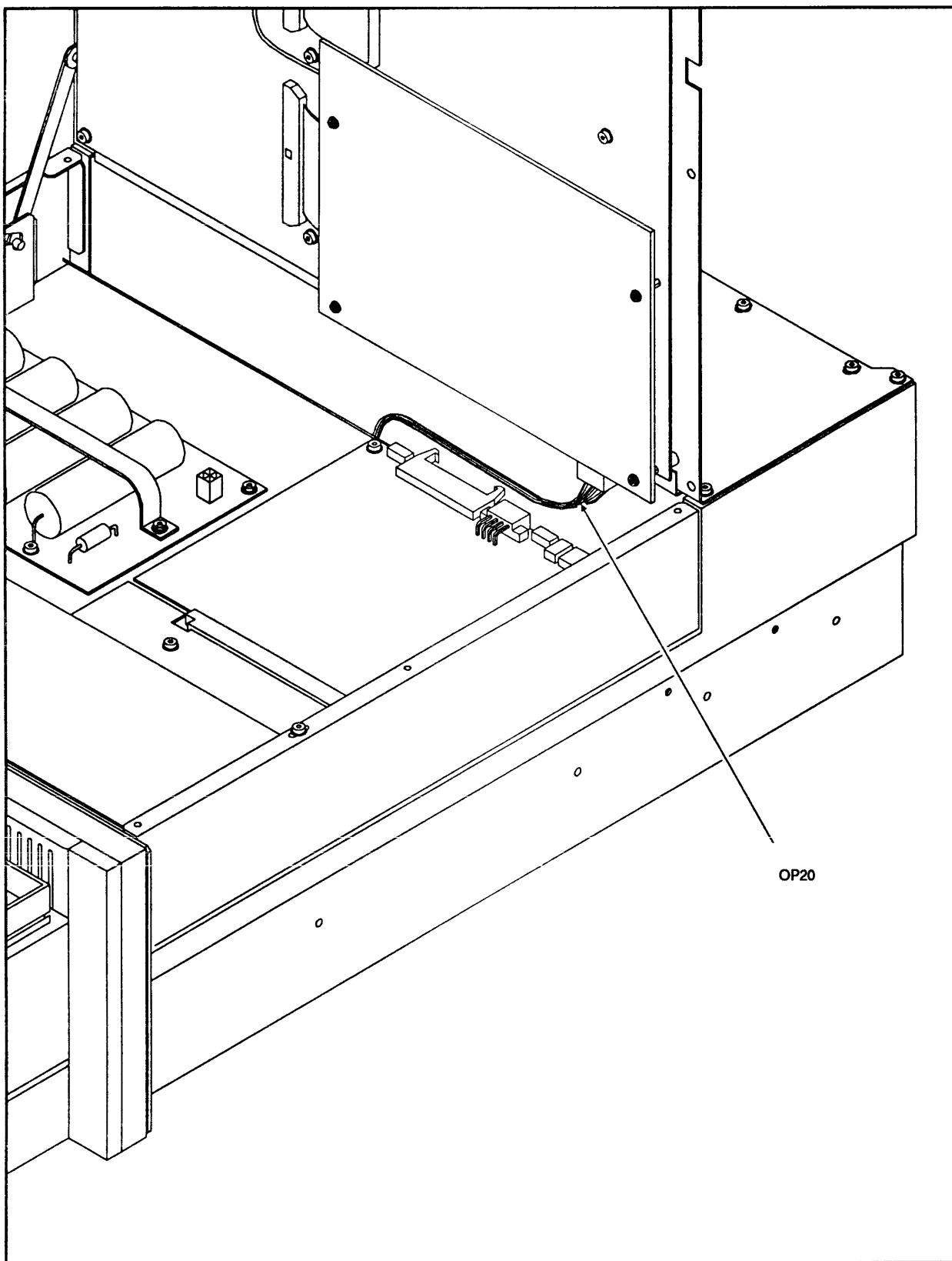


Figure 33. 4220 Orderable Parts
DCI Cable

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP20	289582XX	CBL, DCI PWR	1

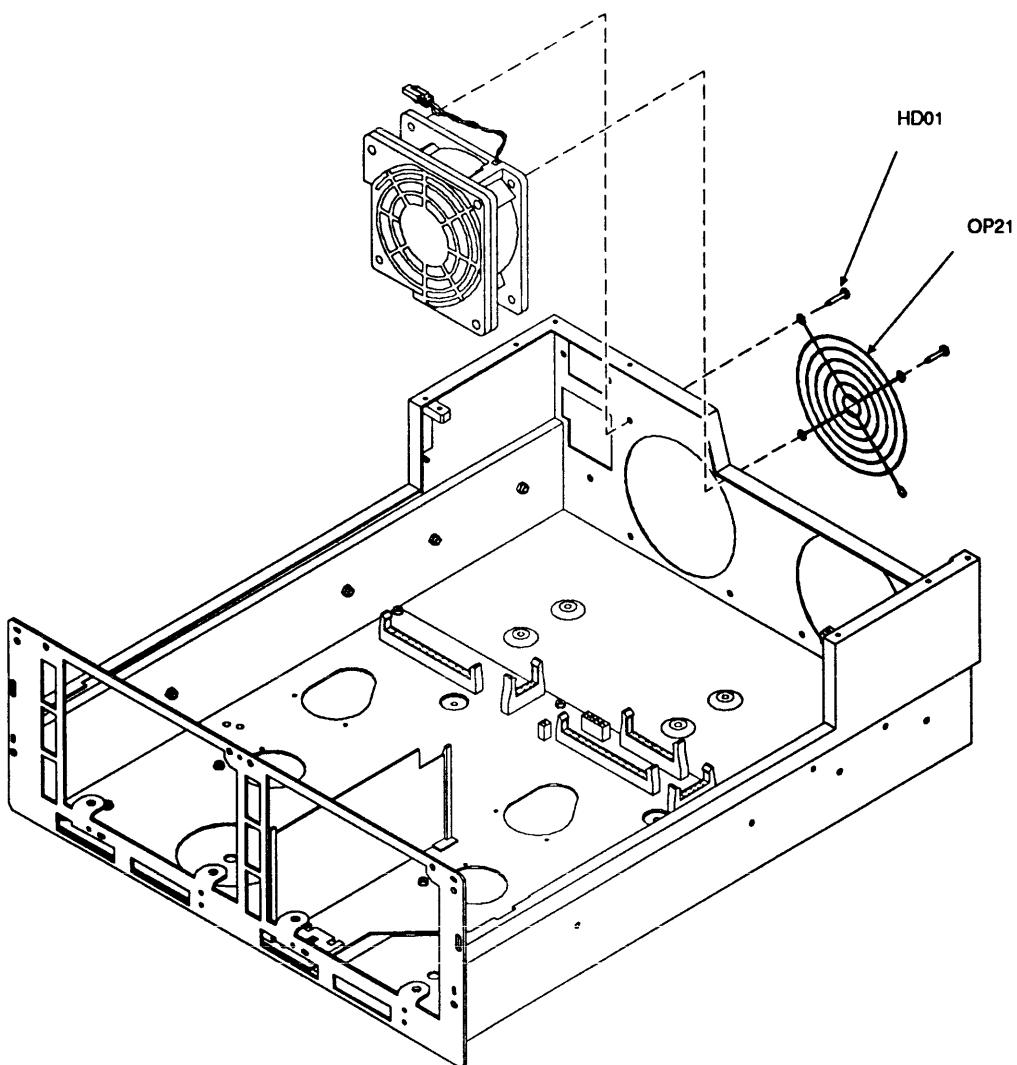


Figure 34. 4220 Orderable Parts
Finger Guard

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP21	24017457	FINGER GUARD, FAN, 4.69 INCH	2

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01	24013201	TAPTITE, TRX PAN HEAD, M5-0.8X12MM	8

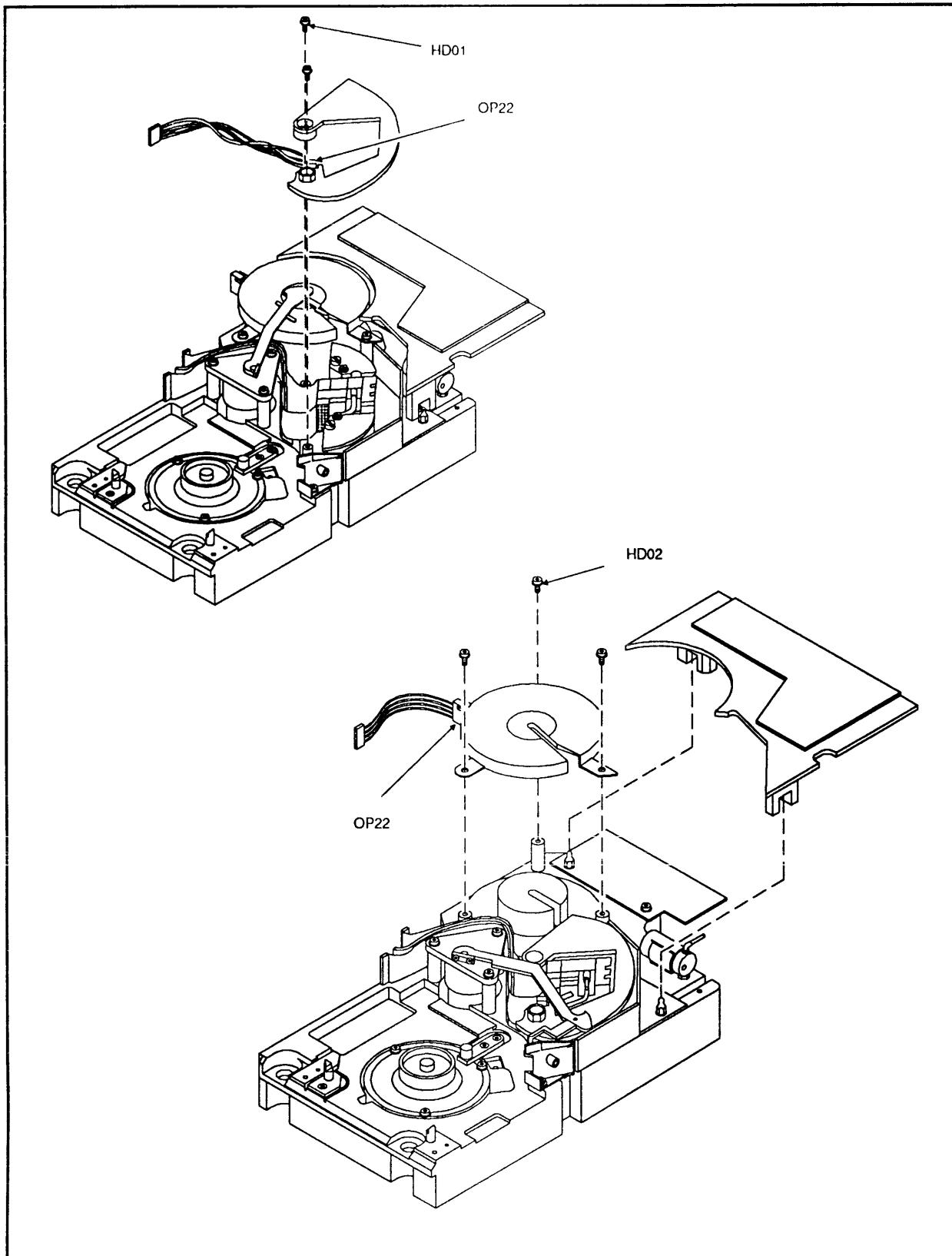


Figure 35. 4220 Orderable Parts
Thread Arm Sensors

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP22	288555XX	THRD ARM SENSOR ASSY	2

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 4-40X1/4, ZINC	1
HD02	SCREW, PHT, SEMS, 4-40X3/8, ZINC	1

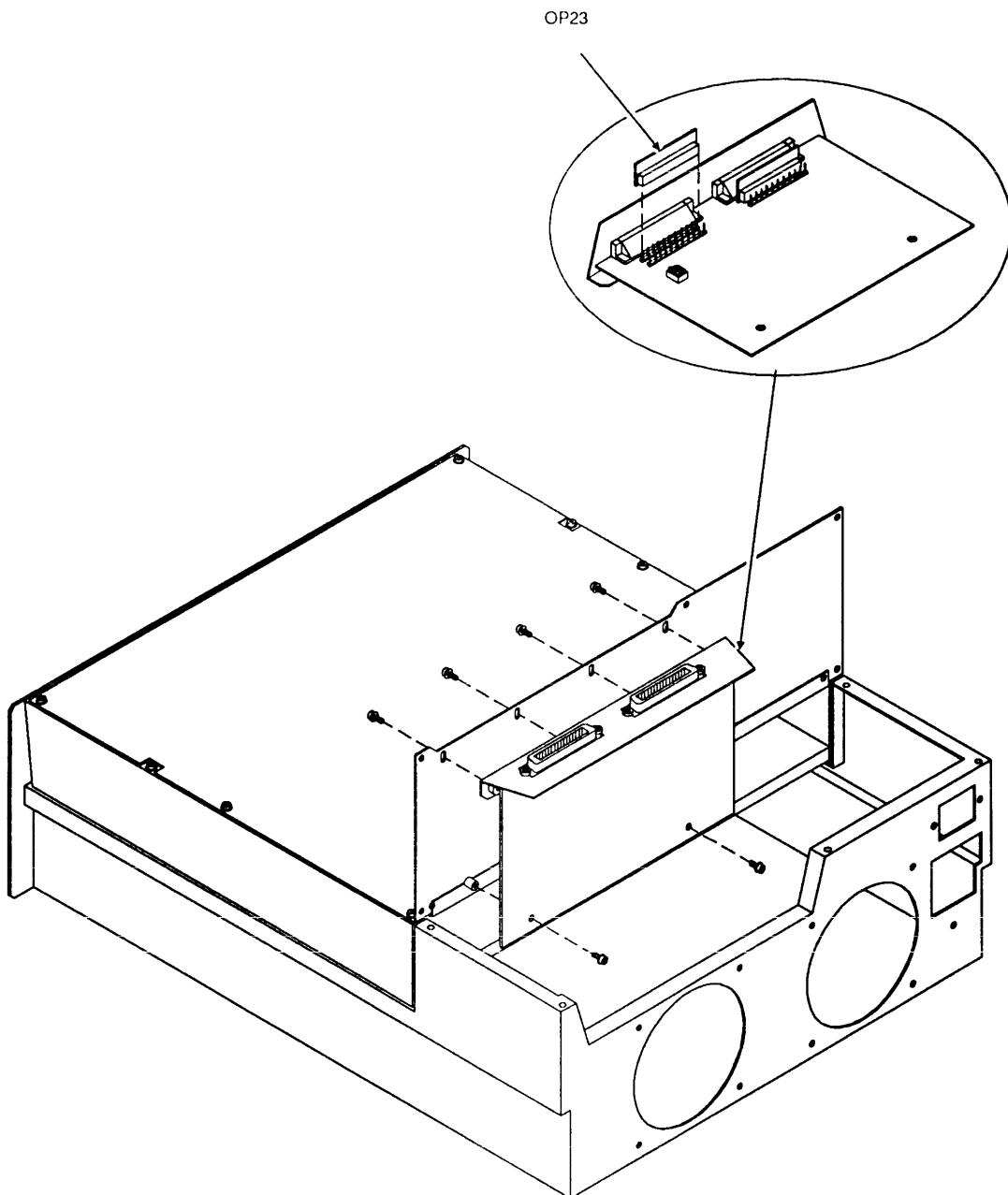


Figure 36. 4220 Orderable Parts
SH Card

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP23	29321XXX	CKT CD SH ASSY	1

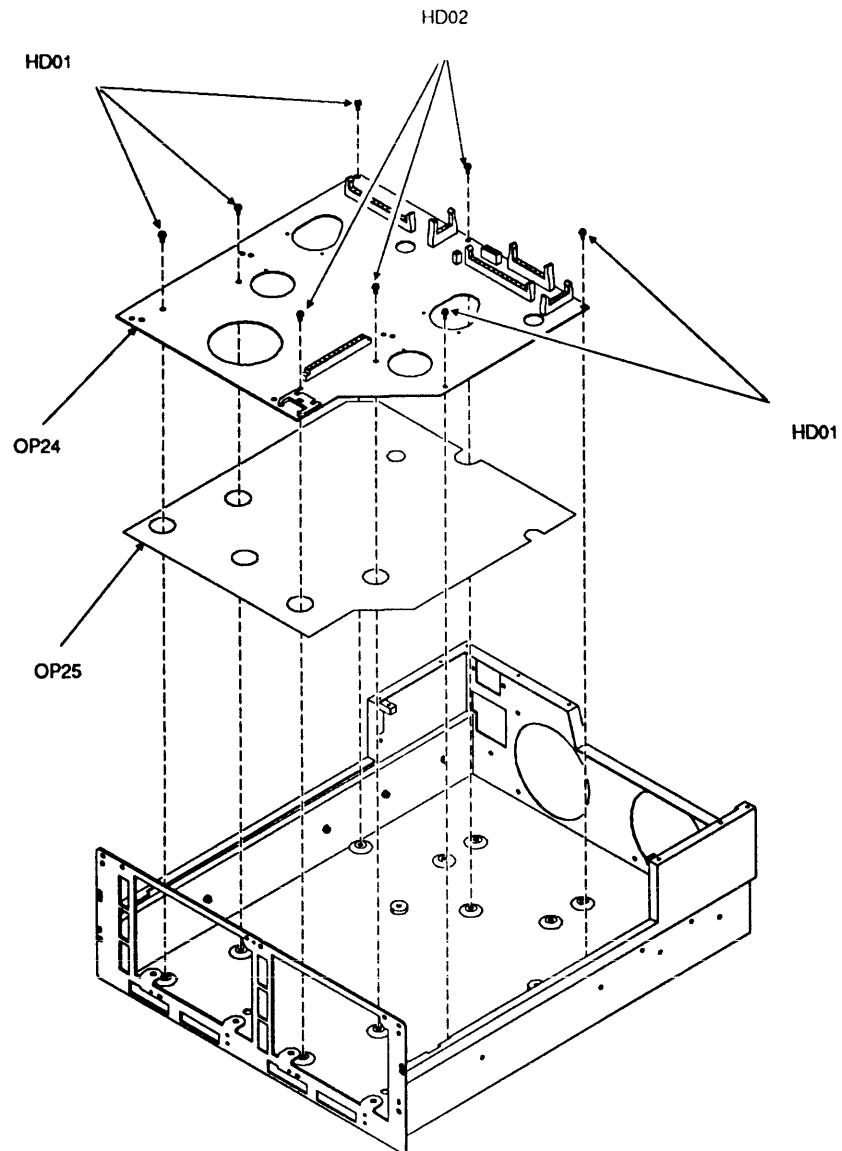


Figure 37. 4220 Orderable Parts
BT Card

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP24	29342XXX	CKT CD BT ASSY	1
OP25	287629XX	INSULATOR, BT/CHASSIS	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X1/4, Z.	5
HDO2	SCREW, PHT, SEMS, 6-32X3/8, Z	3

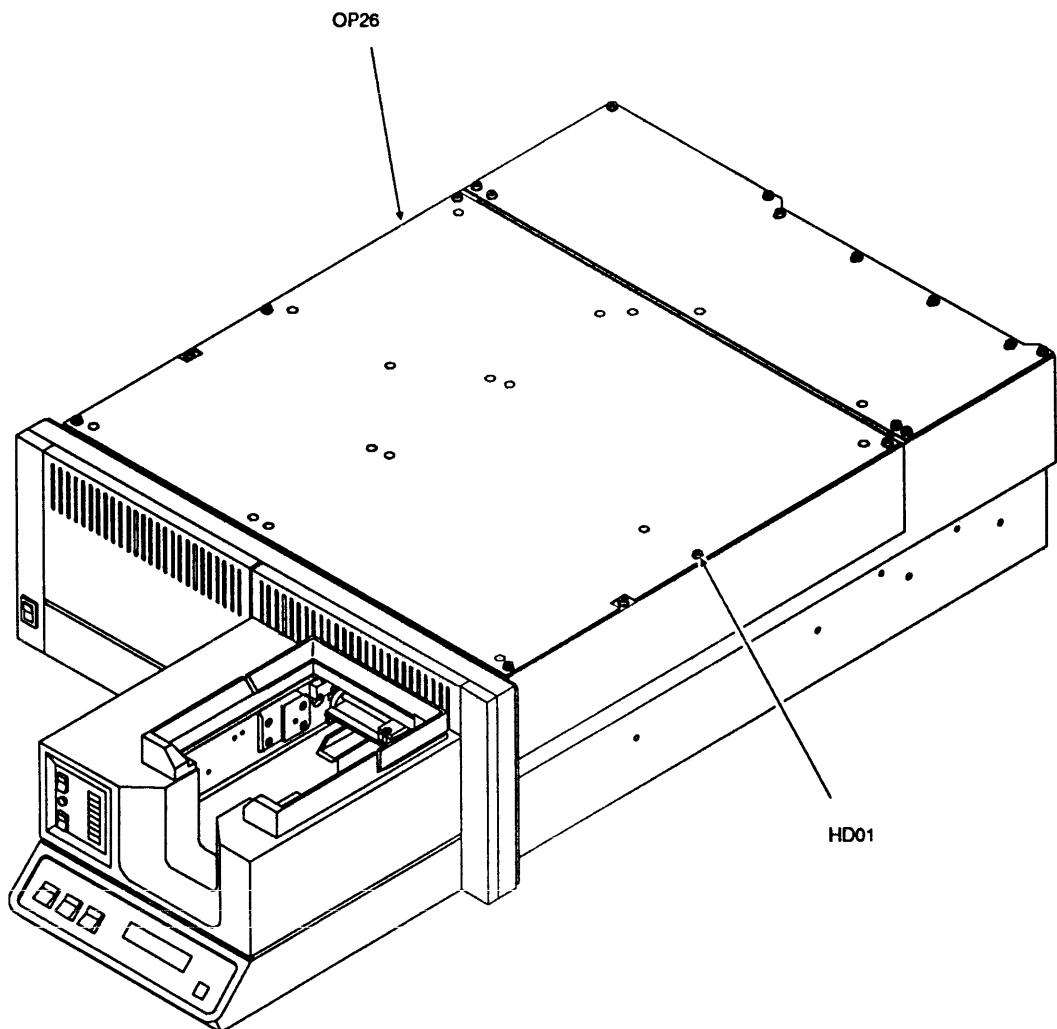


Figure 38. 4220 Orderable Parts
Hinged Top Cover

4220 Assembly**Orderable Parts (non-FRU), cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP26	288433XX	HINGED TOP COVER	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8, Z	13

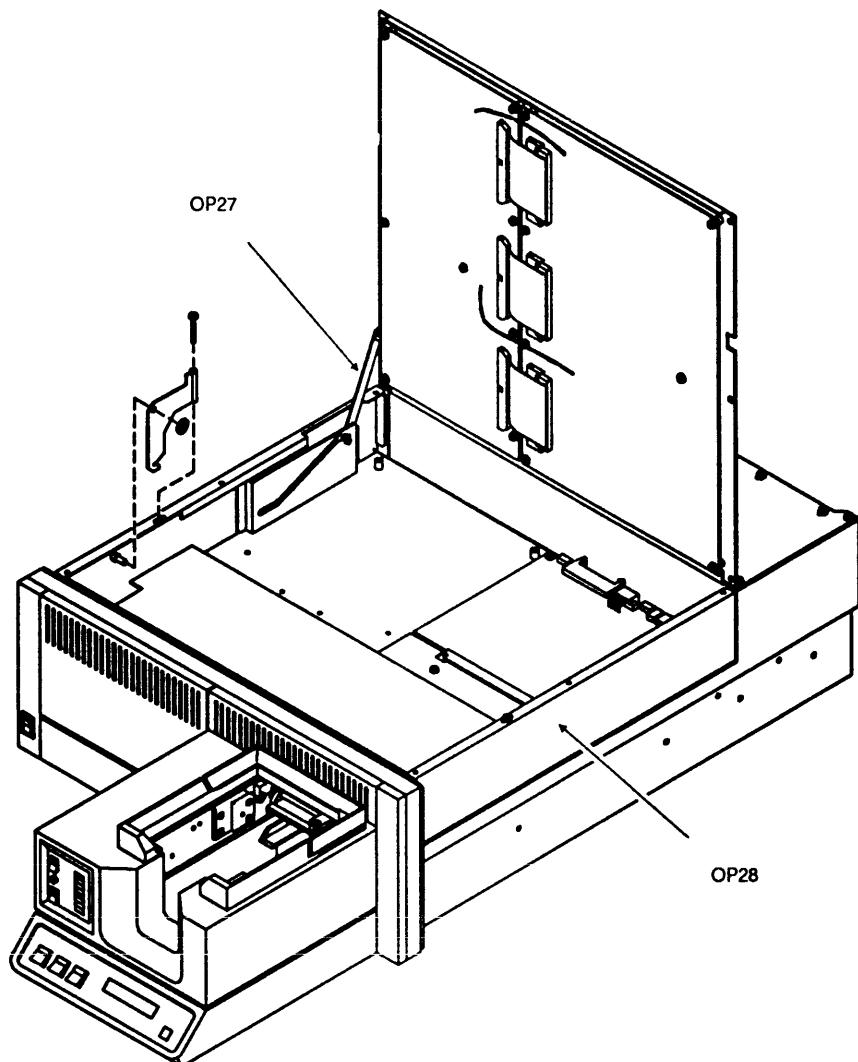


Figure 39. 4220 Orderable Parts
Cover Partition and Support Bar

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP27	287664XX	SUPPORT BAR, TOP	1
OP28	288437XX	COVER, PARTITION	1

NOTE: RETAINERS SNAP INTO PLACE

HI CARD IS SHOWN IN THE POSITION
USED FOR A RIGHT-HAND MOUNTED
UNIT.

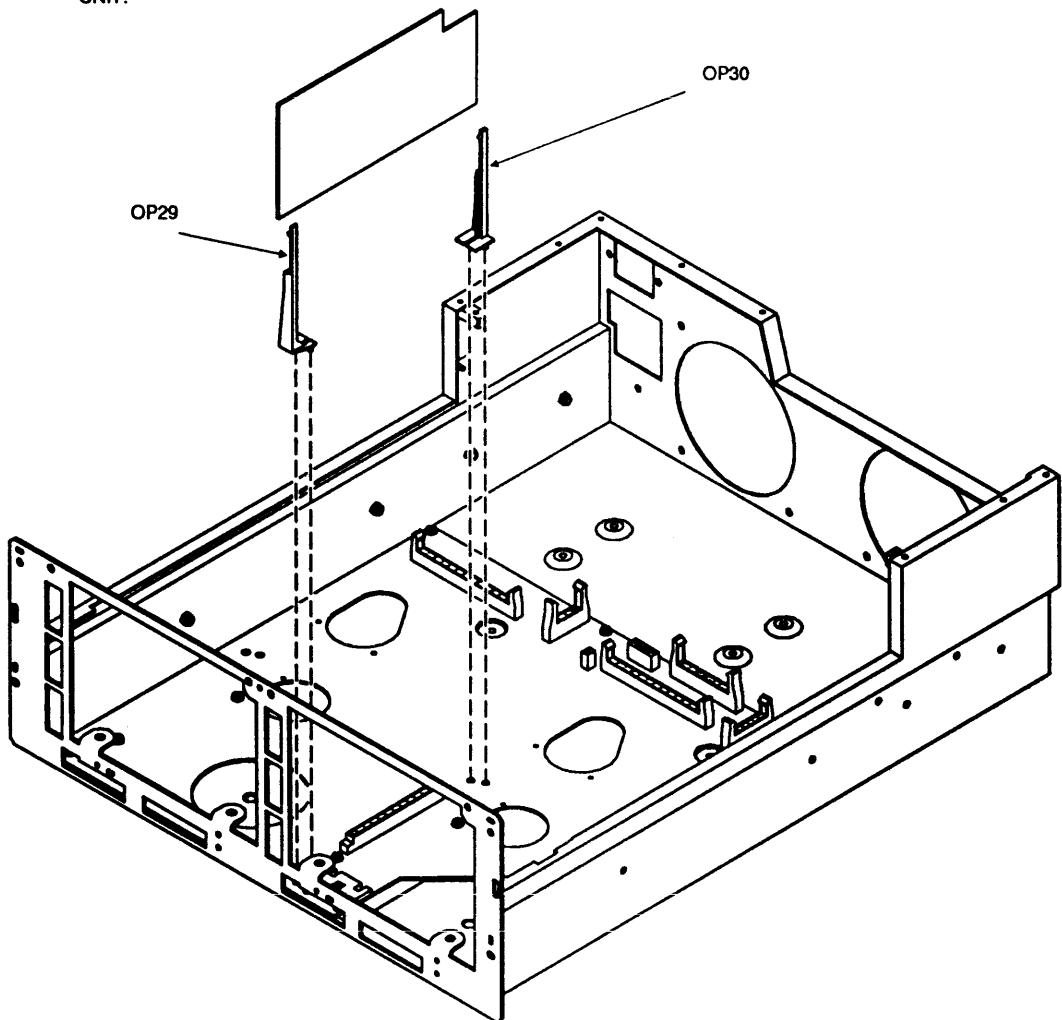


Figure 40. 4220 Orderable Parts
BT/HI Retainers

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP29	288622XX	RETAINER, FRONT, HI	1
OP30	288621XX	RETAINER, BACK, HI	1

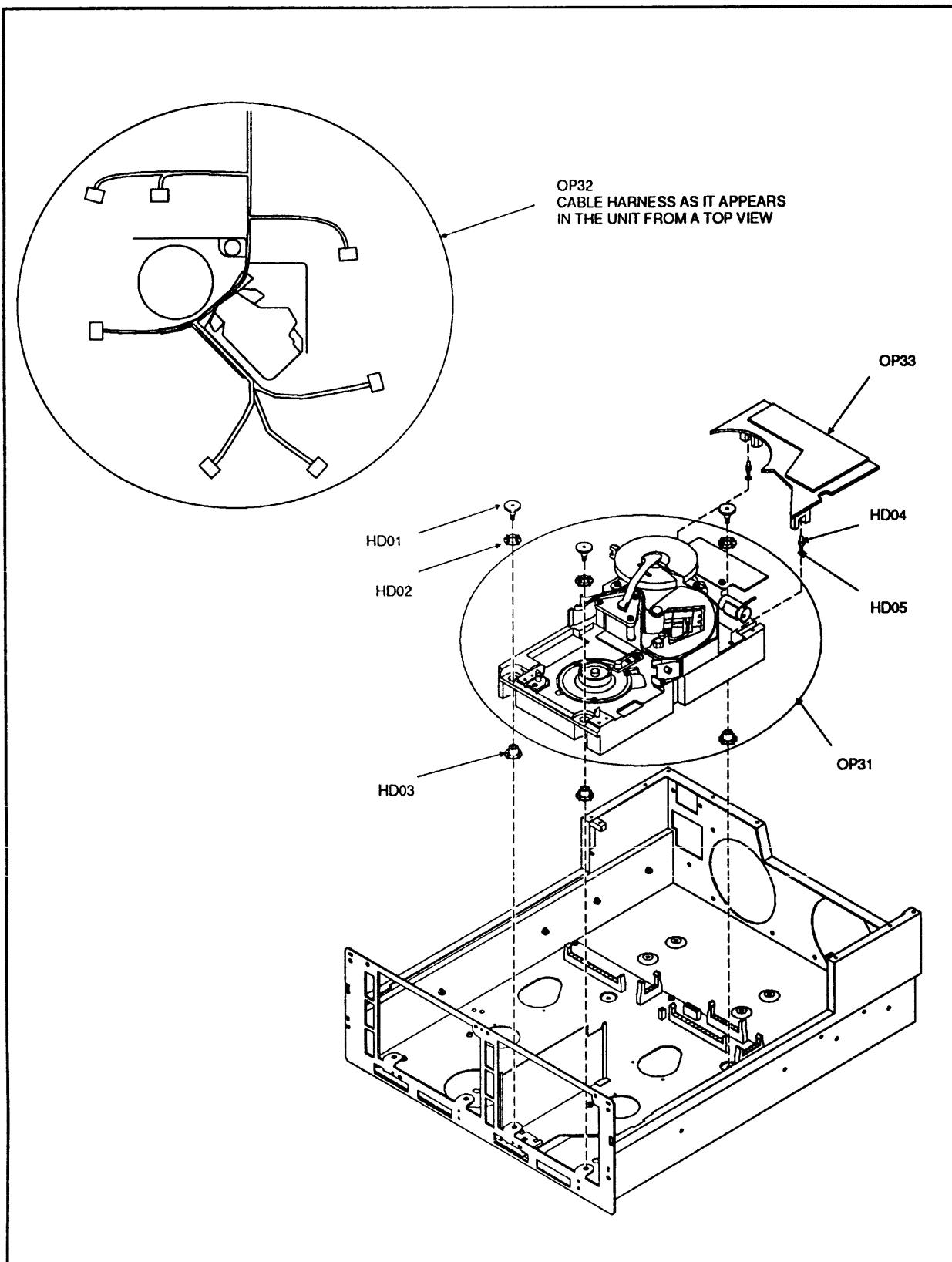


Figure 41. 4220 Orderable Parts
Deckplate Assembly, Deck Cover and SM/ST/Deck Cable

4220 Assembly**Orderable Parts (non-FRU), cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP31	288587XX	DECKPLATE ASSY	1
OP32	289569XX	CBL, SM/ST/DECK (CABLE HARNESS)	1
OP33	288611XX	DECK COVER	1

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01	287663XX	SCREW, ISOLATOR	3
HD02	24020856	RING, ISOLATOR	3
HD03	24020853	BUSHING, ISOLATOR	3
HD04	24022045	BALL STUD, .406X.218	2
HD05		WASHER	2

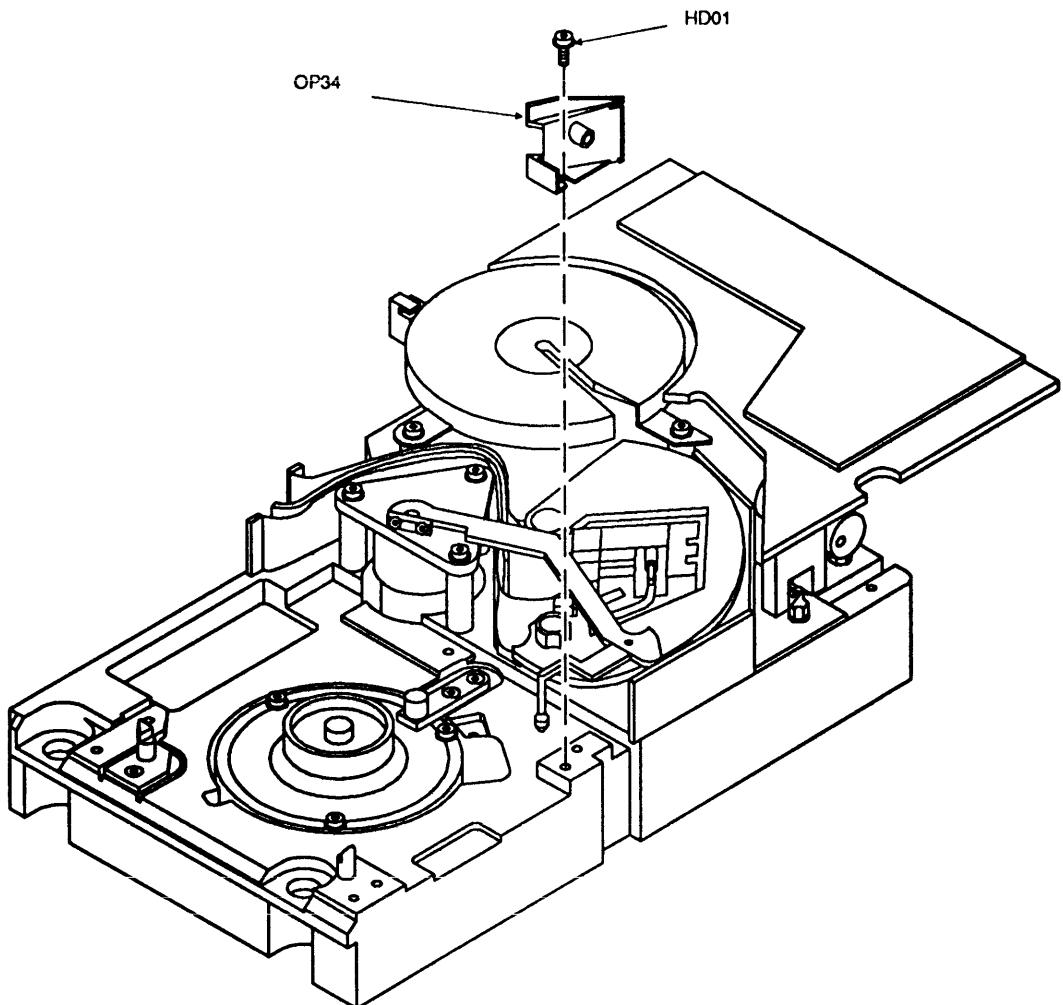


Figure 42. 4220 Orderable Parts
Leader Block Guide

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP34	250590XX	LEADER BLOCK GUIDE	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCR, PHT, SEMS, 6-32X3/8, Z	1

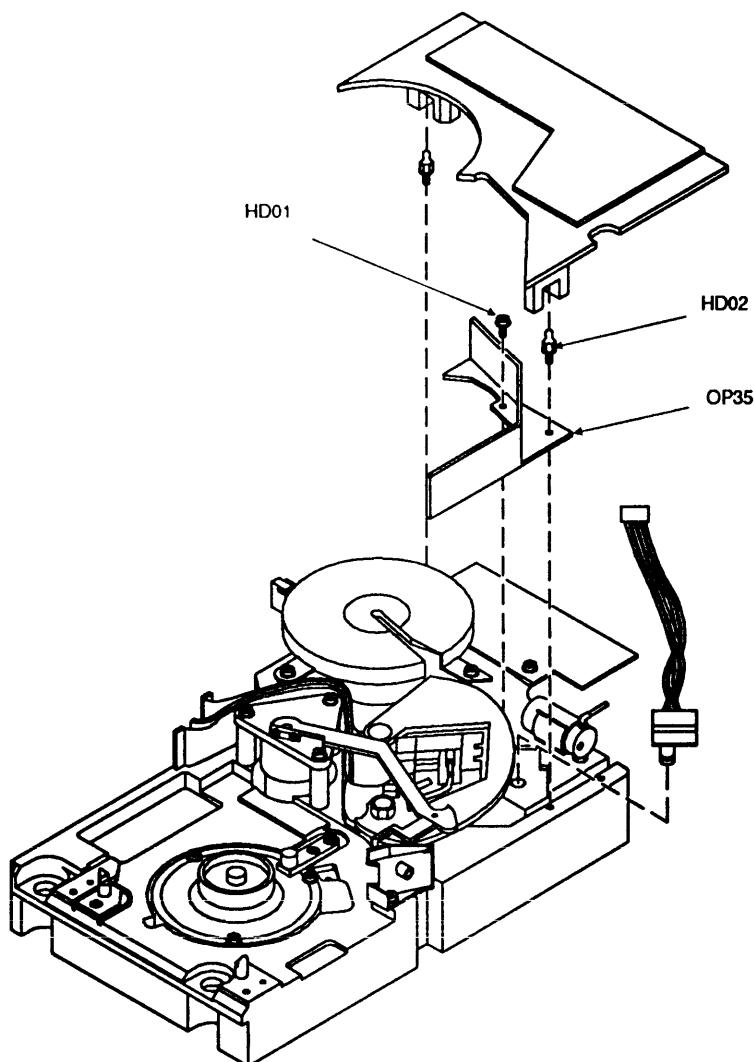


Figure 43. 4220 Orderable Parts
Plate Tape Path

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP35	287533XX	PLATE TAPE PATH	1

Attaching Hardware

<u>Fig Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
HD01		SCREW, PHT, SEMS, 6-32X3/8, ZINC	1
HD02	24022045	BALL STUD, .406X.218 Although two ball studs are present, only one helps hold the plate tape path.	1

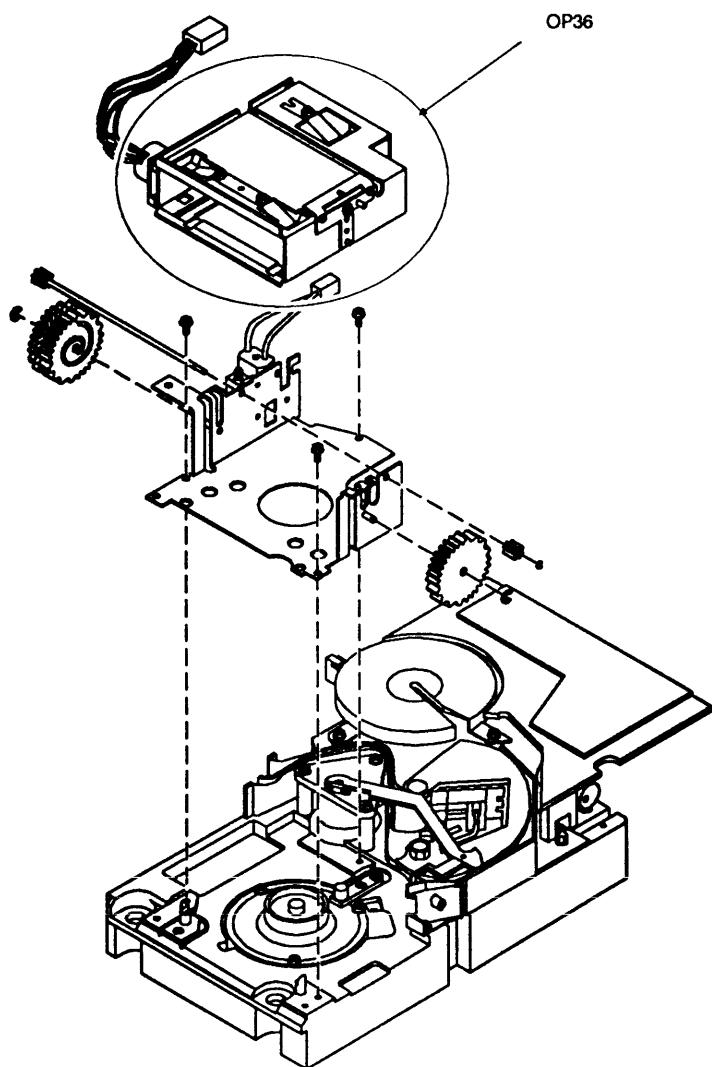


Figure 44. 4220 Orderable Parts
Carrier Assembly

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP36	288561XX	CARRIER, ASSY	1

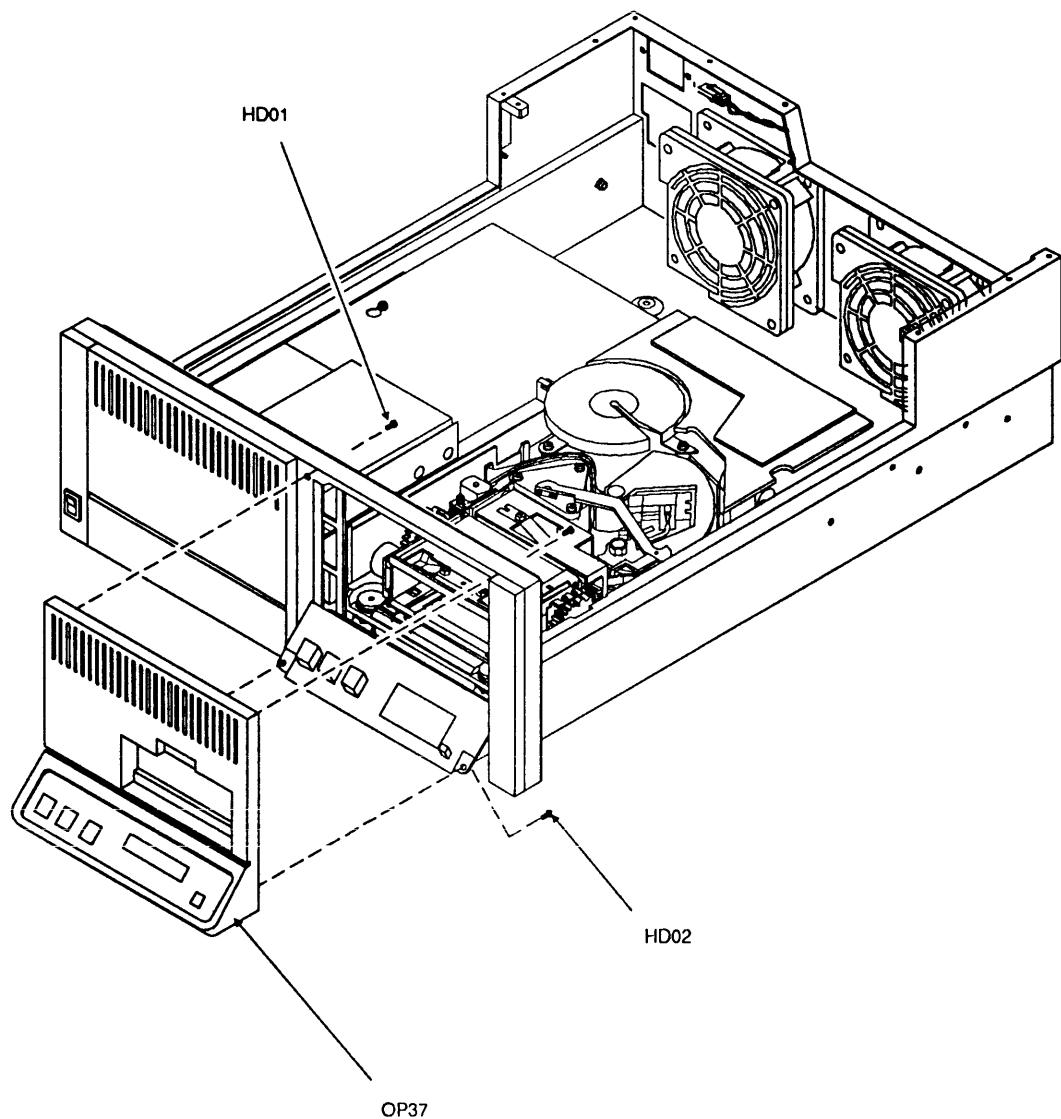


Figure 45. 4220 Orderable Parts
Front Covers (Manual Loader)

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP37	289462XX	PANEL, FRT, ML, PRL	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, MACH TXPH, 6-32X7/8, Z	2
HD02	SCREW, PHT, SEMS, 6-32X3/8	2

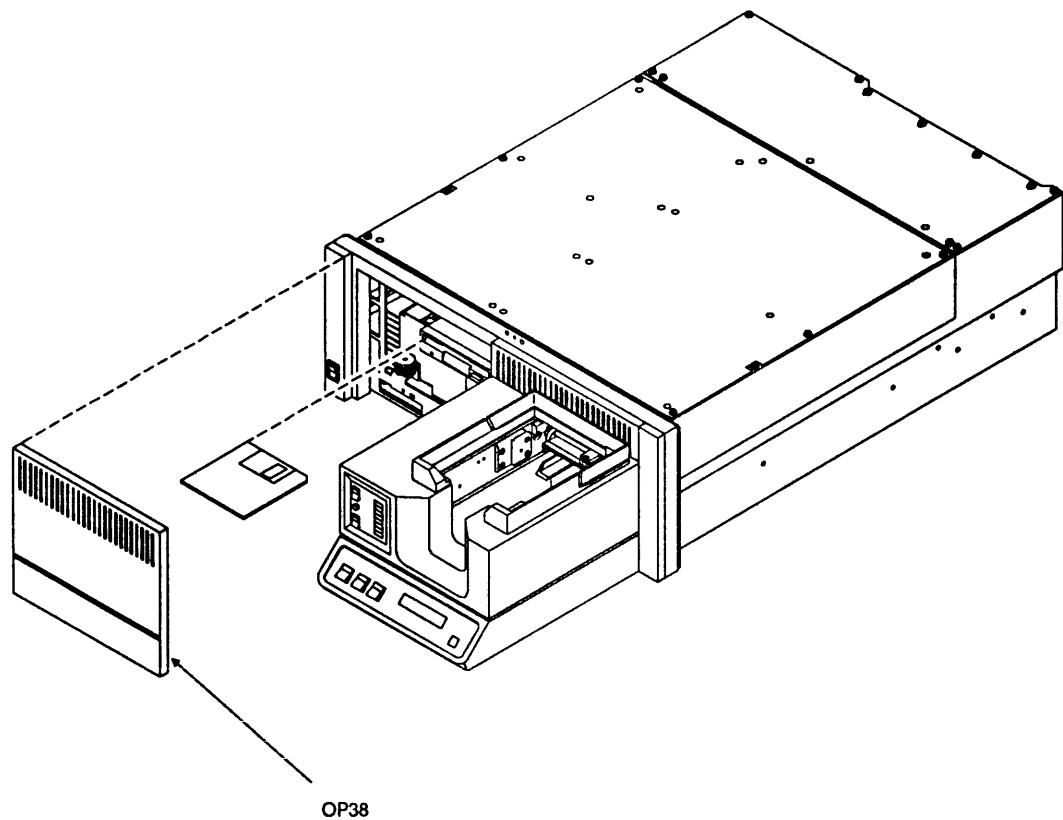


Figure 46. 4220 Orderable Parts
Blank Front Panel

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP38	288596XX	PANEL, FRT, BLANK	1

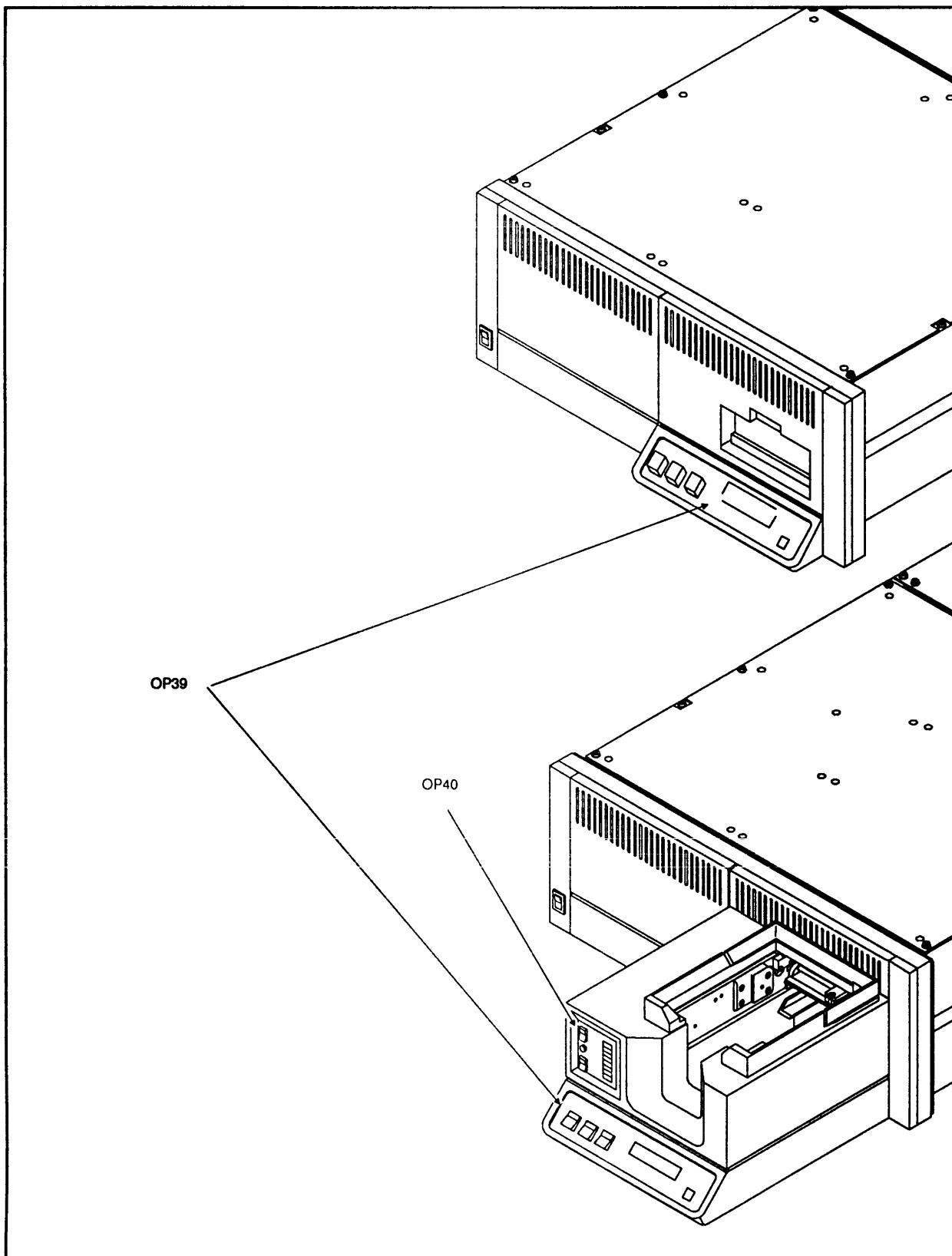


Figure 47. 4220 Orderable Parts
Overlay Assembly

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP39	288596XX	OVERLAY DISPLAY	1
OP40	276961XX	OVERLAY, AUTOLOADER	1

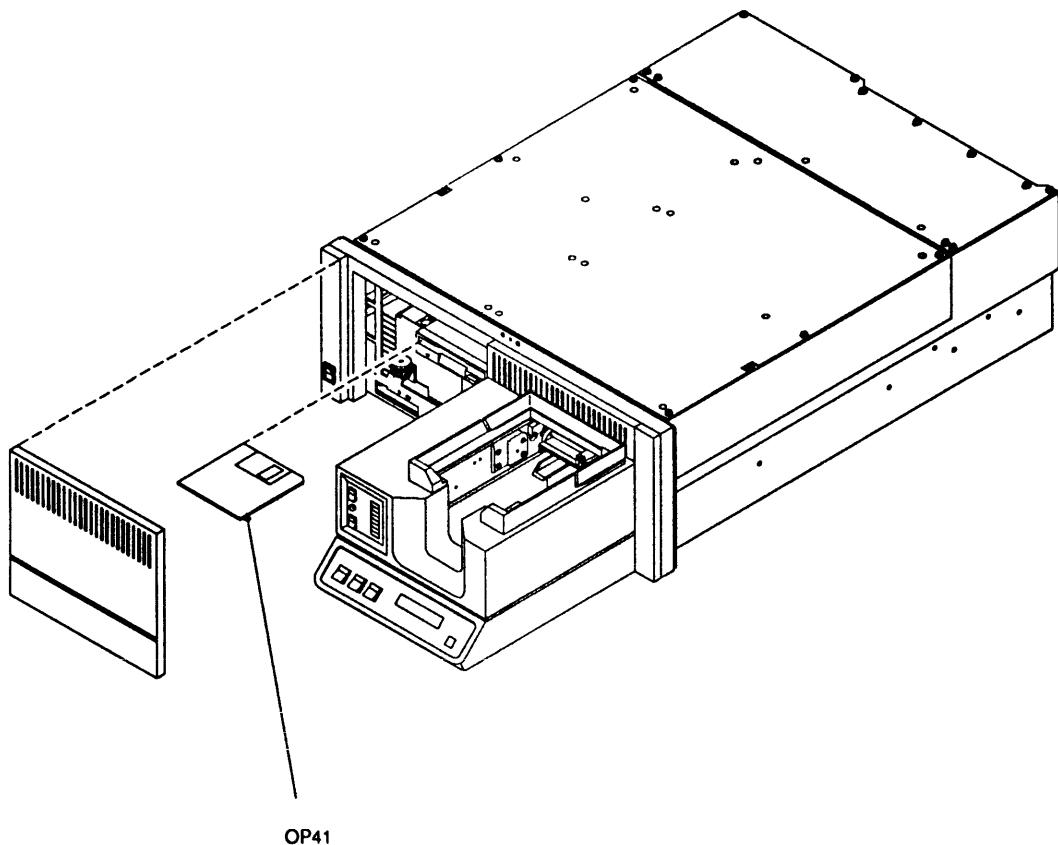


Figure 48. 4220 Orderable Parts
SCSI Floppy

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP41	287300XX	SCSI FLOPPY	1

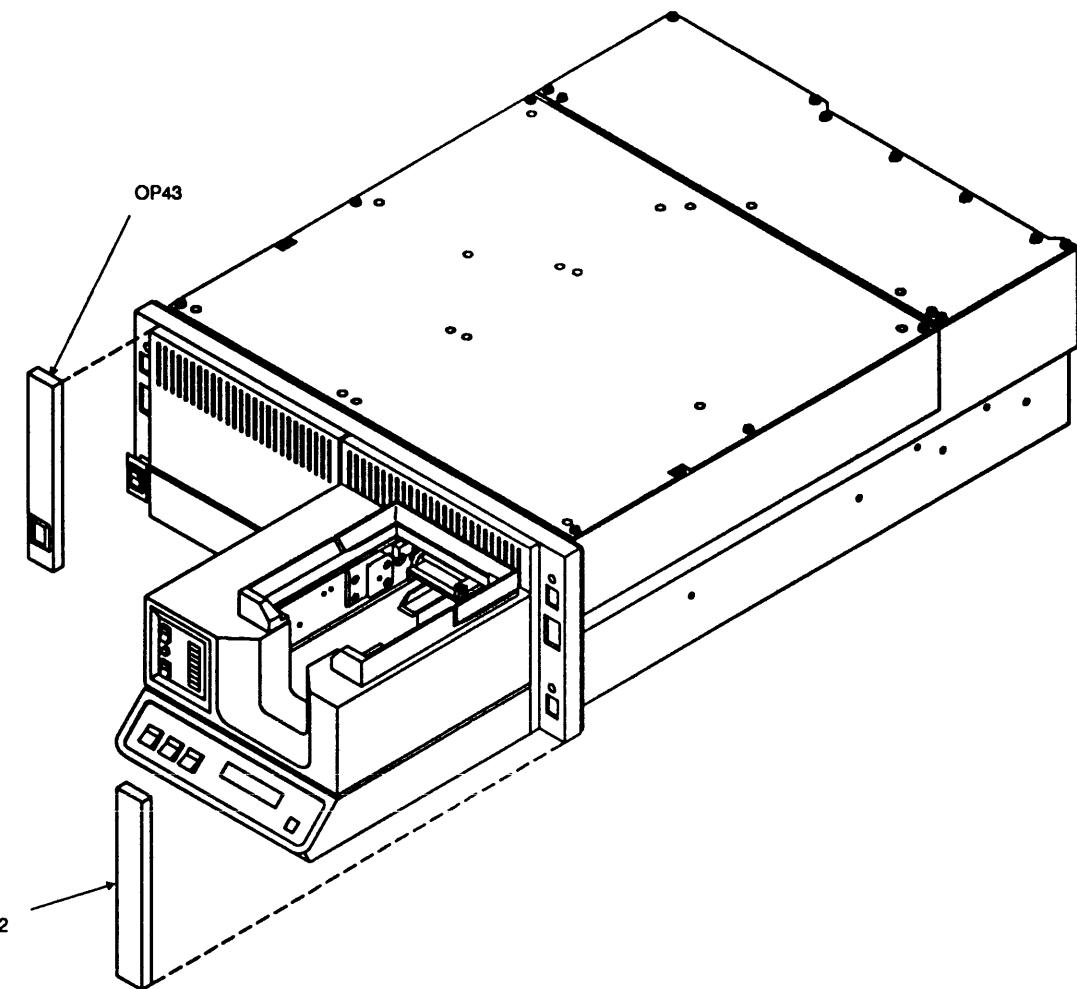


Figure 49. 4220 Orderable Parts
End Caps

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP42	289451XX	END CAP (RIGHT)	1
OP43	289452XX	END CAP (LEFT)	1

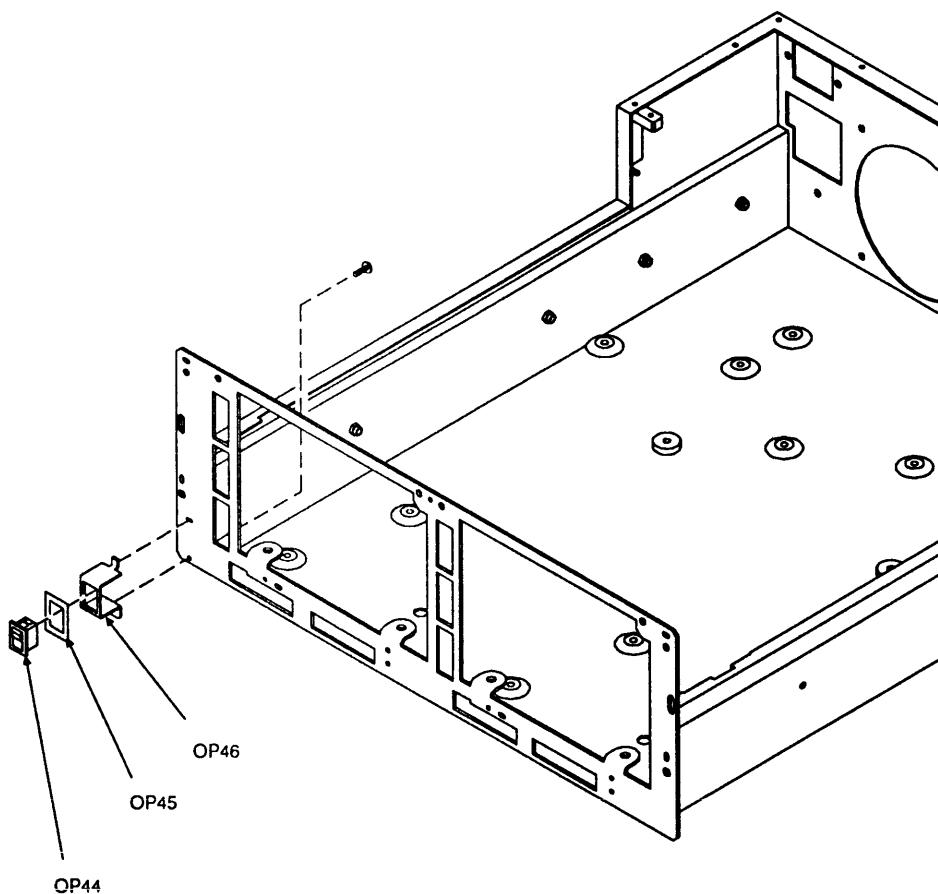


Figure 50. 4220 Orderable Parts
Front Switch

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP44	24050539	FRONT POWER SWITCH	1
OP45	287659XX	BEZEL, FRONT POWER	1
OP46	288475XX	BRACKET, FRONT SWITCH	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8	1

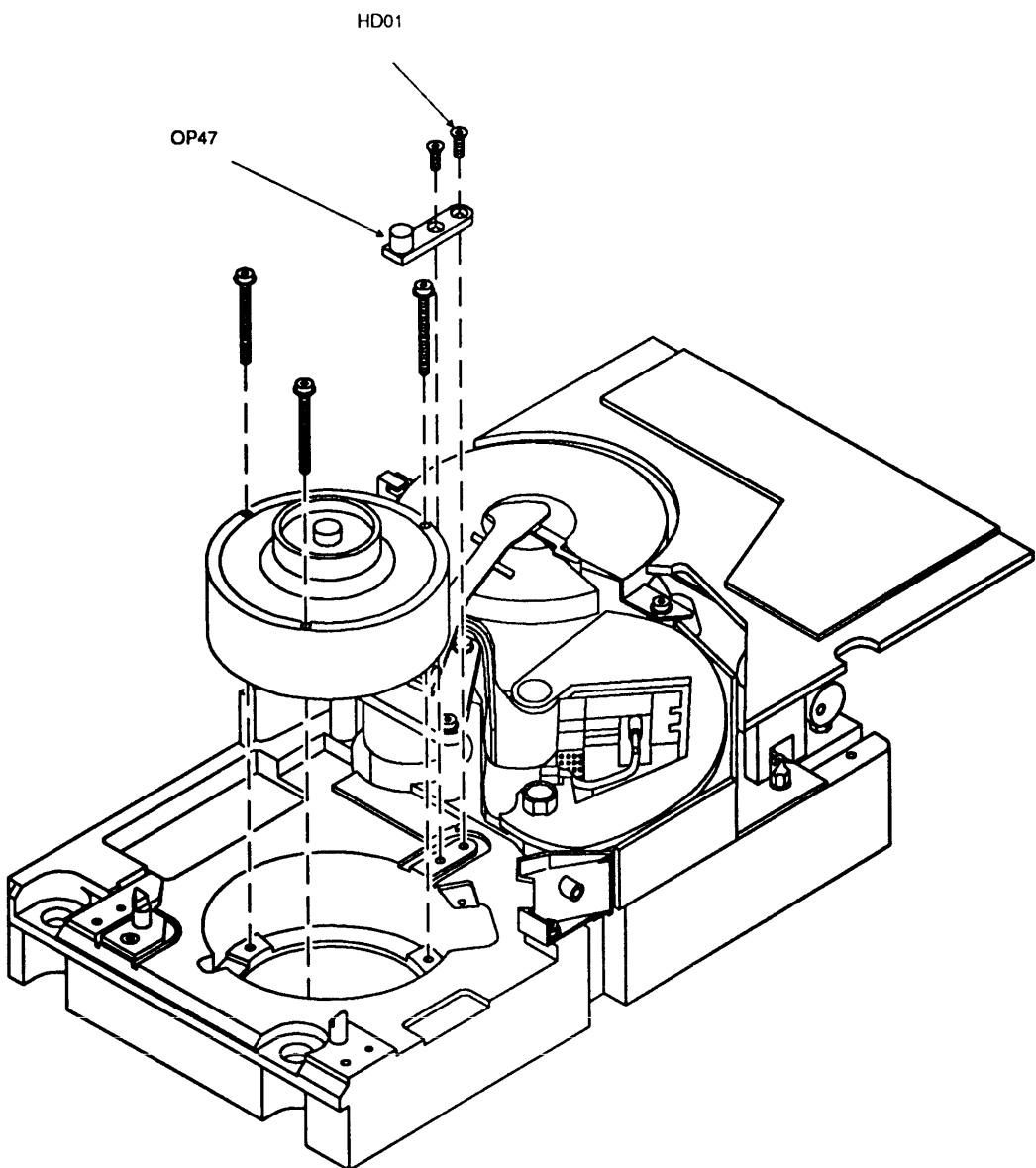


Figure 51. 4220 Orderable Parts
Cartridge Pin

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP47	287566XX	PIN, CARTRIDGE	2

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, FLATHEAD, 6-32X3/8, BO	2

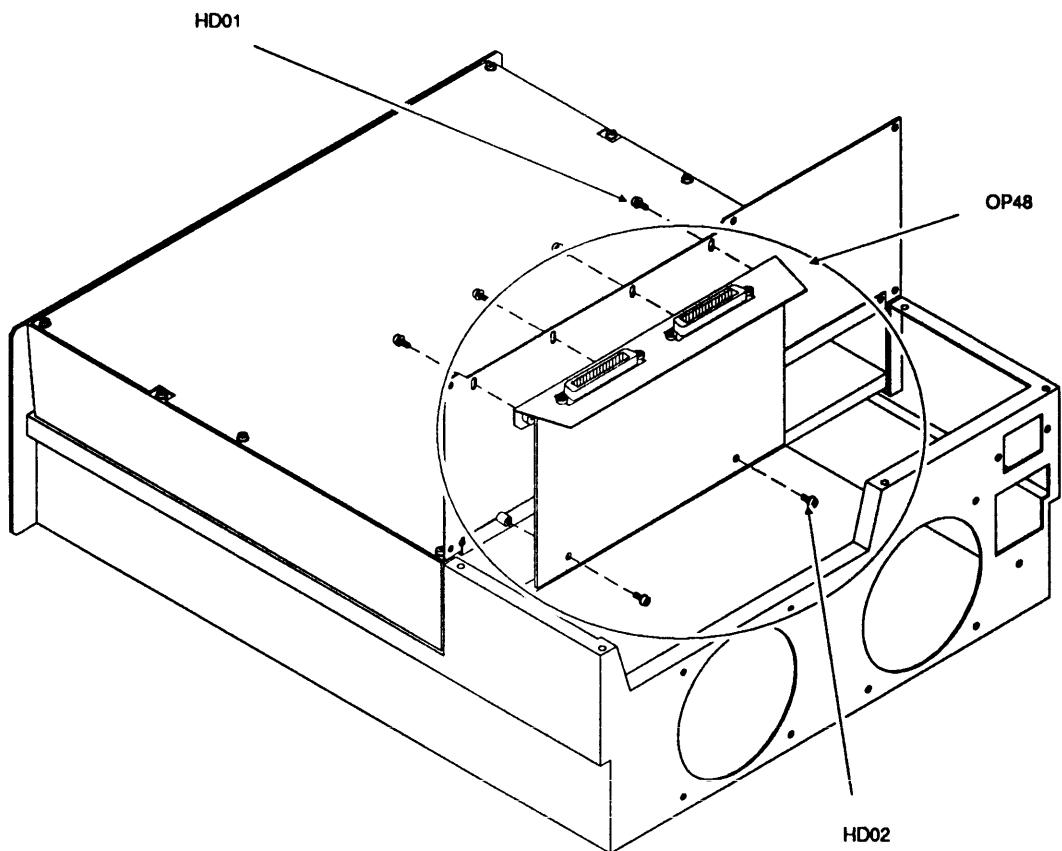


Figure 52. 4220 Orderable Parts
SCSI I/F Assembly

4220 Assembly**Orderable Parts (non-FRU), cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP48	286990XX	SCSI I/F, ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X1/4, Z	4
HD02	SCREW, PHT, SEMS, 6-32X3/8, Z	2

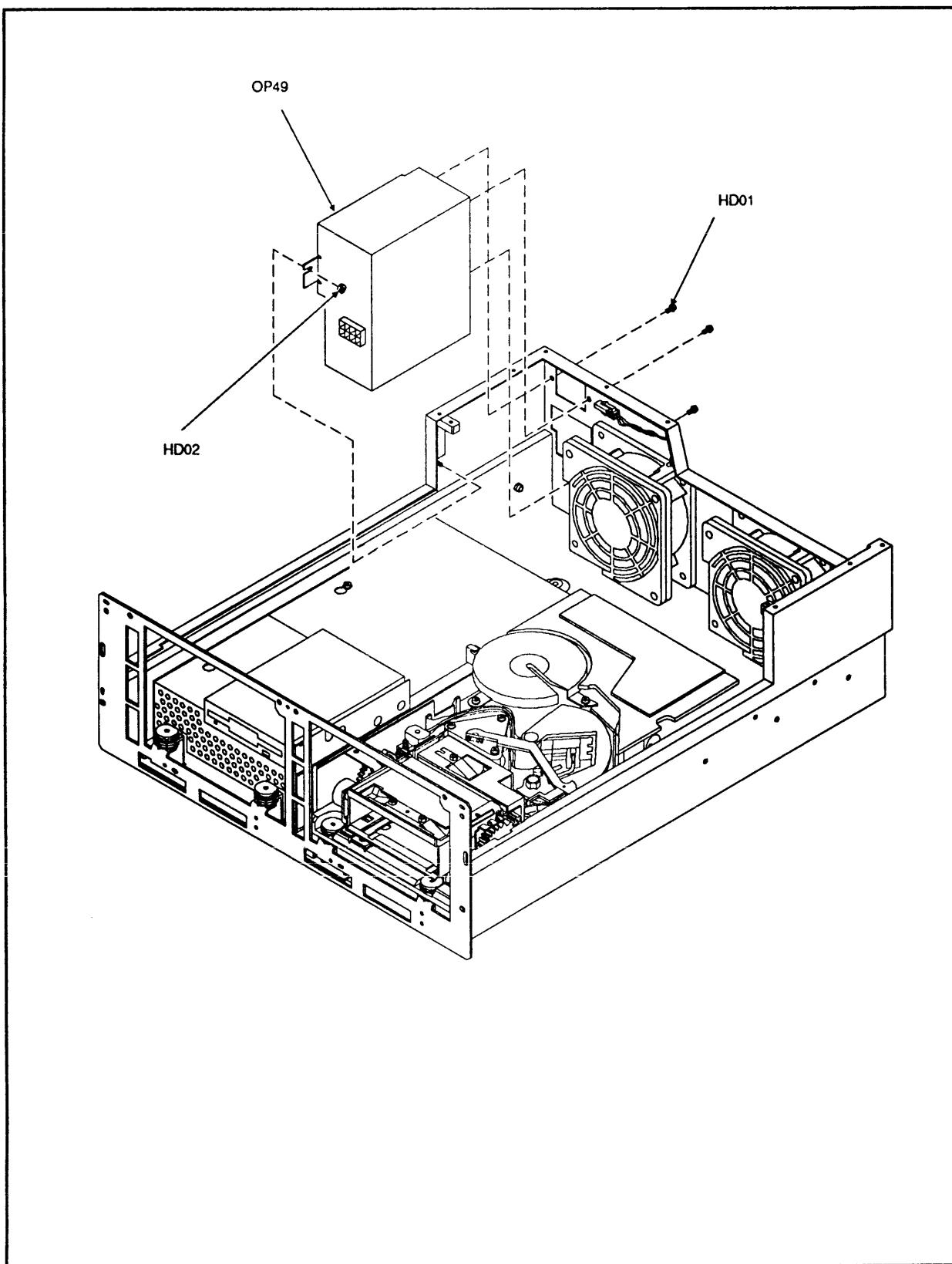


Figure 53. 4220 Orderable Parts
Line Filter

4220 Assembly**Orderable Parts (non-FRU), cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP49	289440XX	LINE FILTER	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8, Z	3
HD02	KEPS NUT, 6-32	1

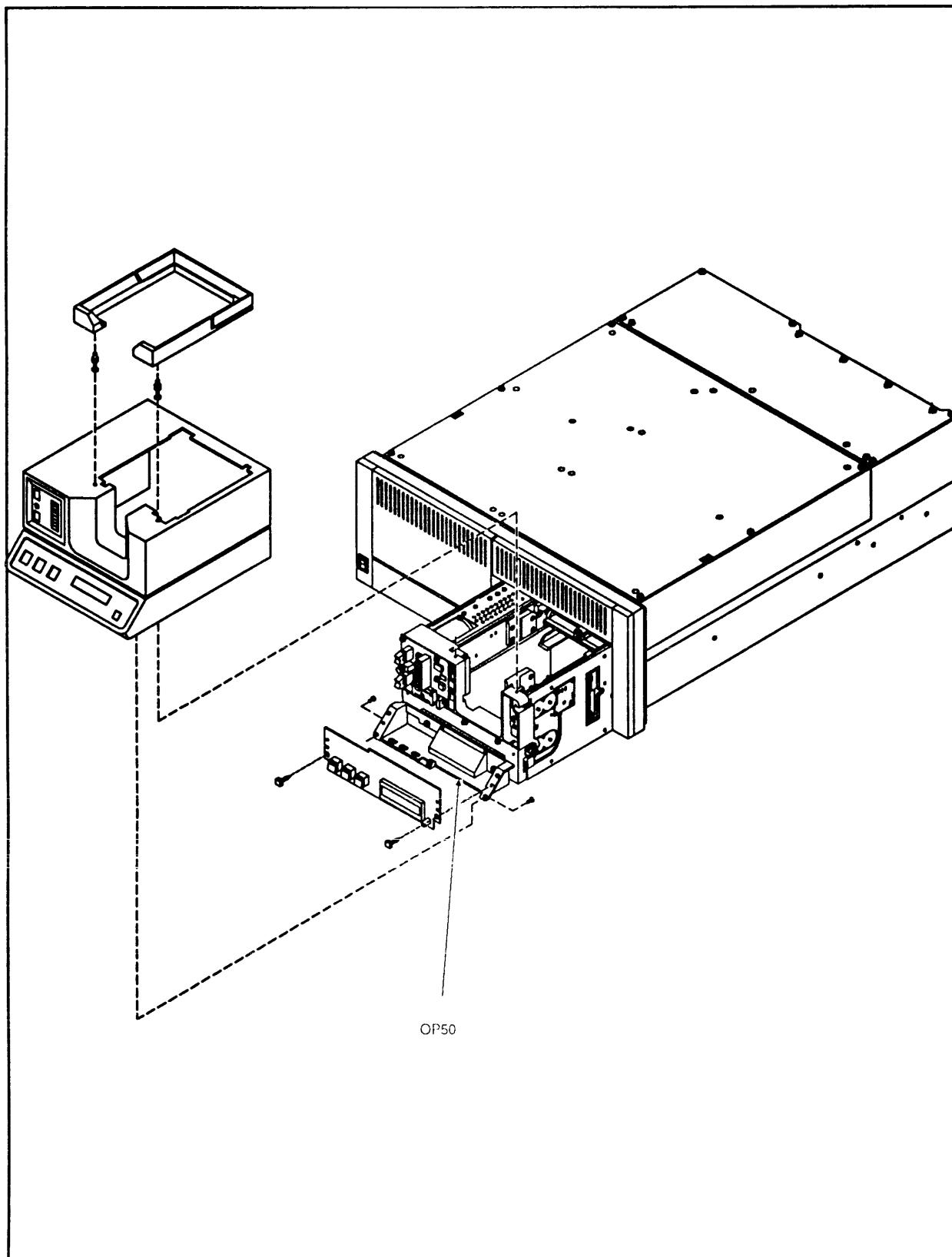


Figure 54. 4220 Orderable Parts
DP Bracket

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP50	288547XX	BRACKET, DP

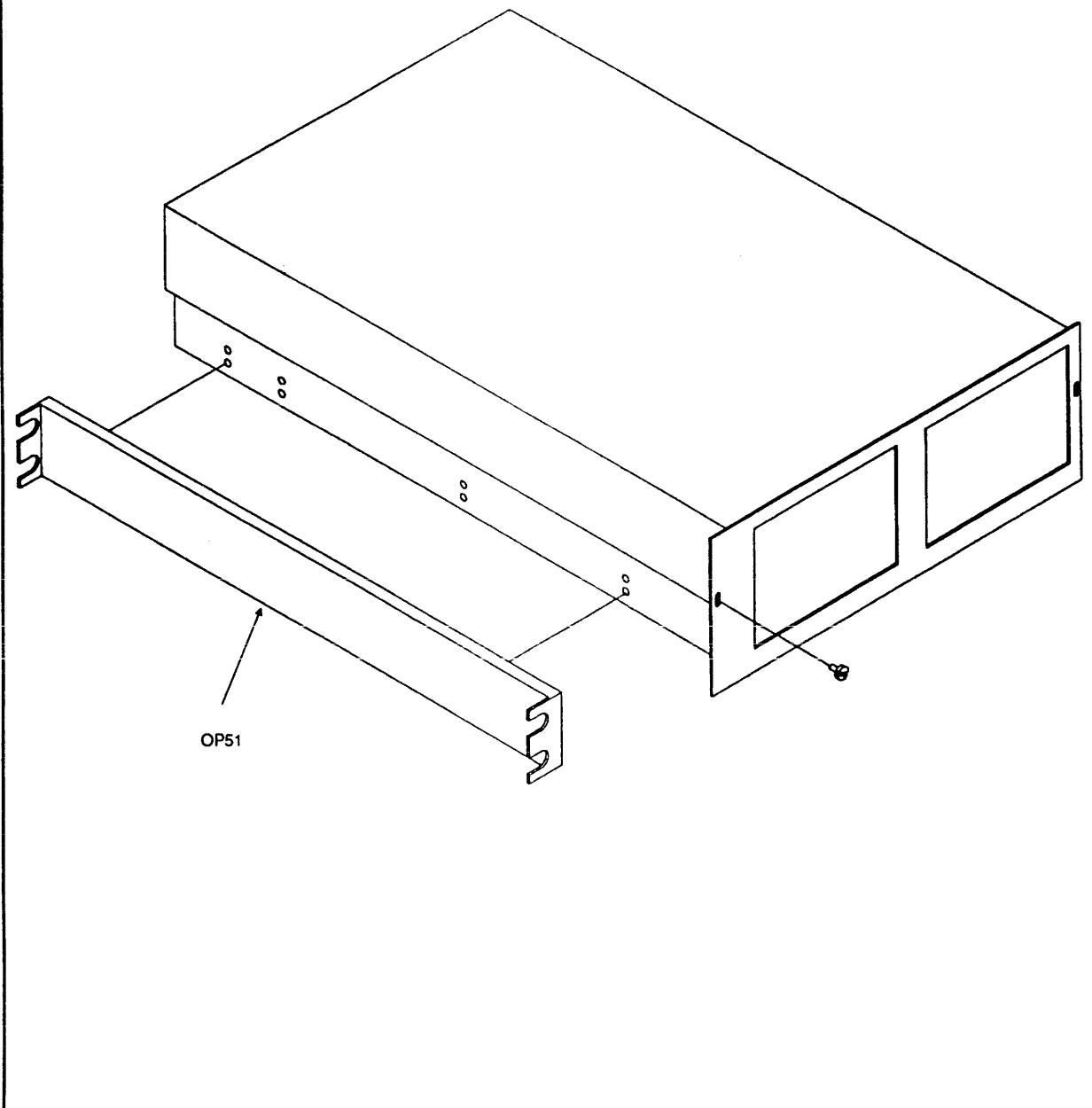


Figure 55. 4220 Orderable Parts
Jonathan Slides

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP51	288465XX	SLIDES, JONATHAN	1

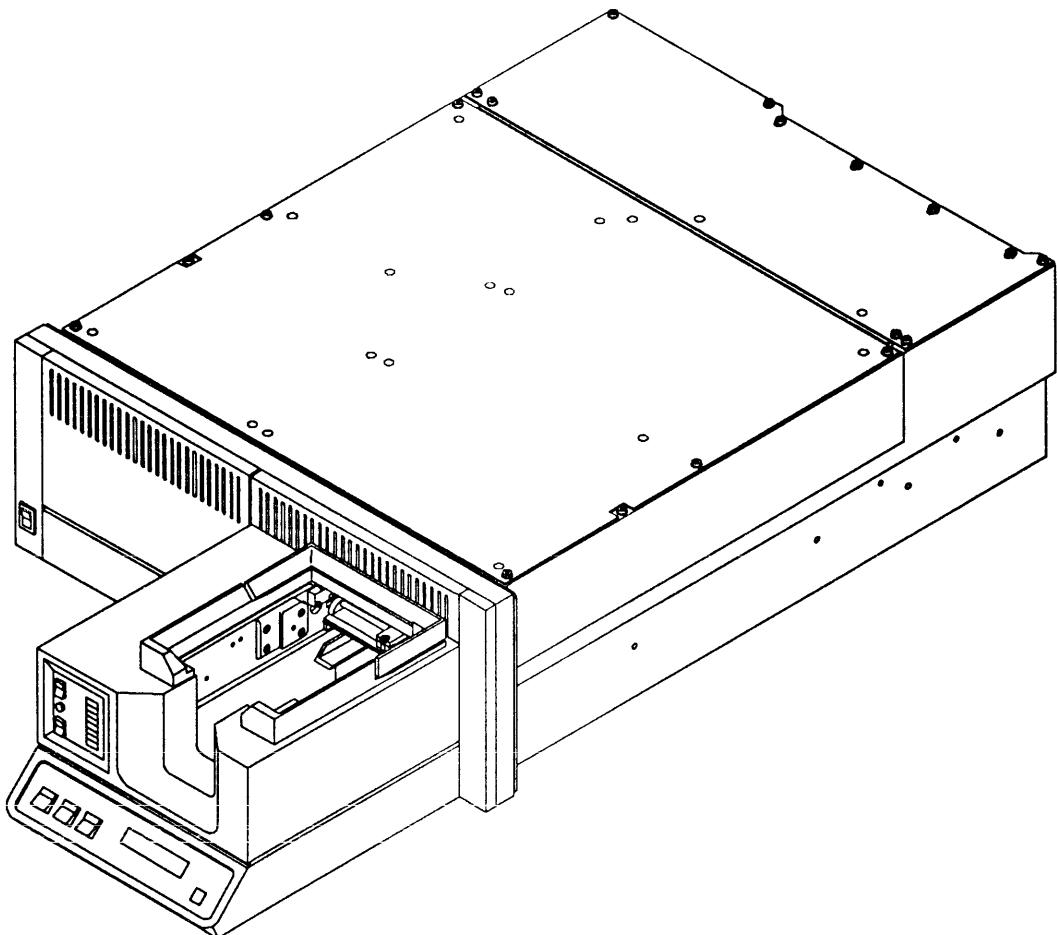


Figure 56. 4220 Orderable Parts
4220 with Autoloader (Right-hand Mount)

4220 Assembly

Orderable Parts (non-FRU), cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
OP51	288465XX	COVER, TABLE TOP	1
OP52	288468XX	BRACKET, TABLE TOP	2

Attaching Hardware

<u>Fig. Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, SHNH 8-32X1/4,Z	6
HD02	WASHER, EXT ST, #8, Z	6

Automatic Cartridge Loader (ACL)

The Automatic Cartridge Loader (ACL) assembly consists of the ACL and all associated hardware and electronic components.

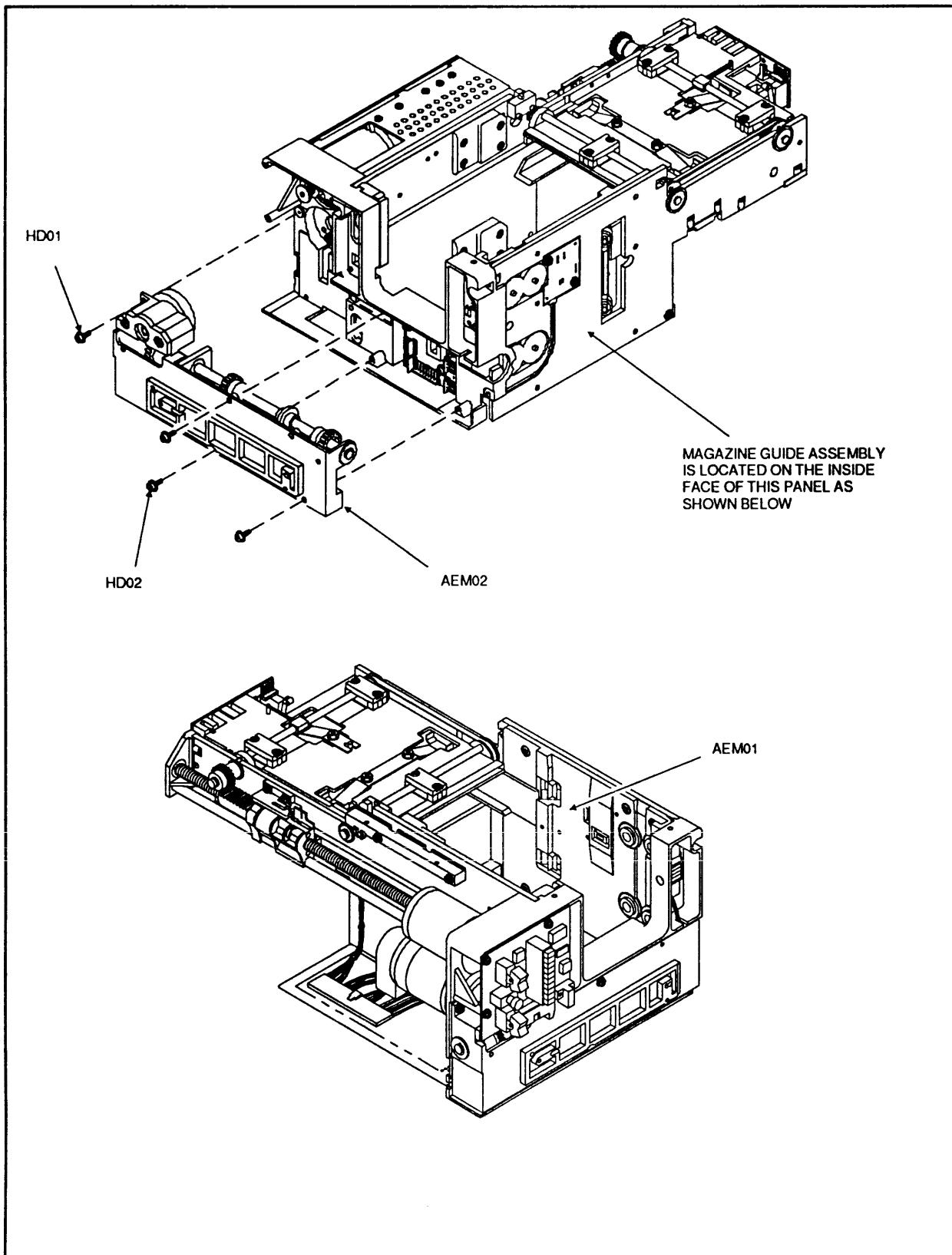


Figure 57. ACL Group
Vertical Transmission and Magazine Guide Assemblies

ACL Assembly**Electro-Mechanical**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM01	277910XX	MAGAZINE GUIDE ASSY	1
AEM02	277904XX	VERT. TRANSMISSION ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, 6-32X1/4, Z	1
HD02	SCREW, PHT, 6-32X1/2, Z	3

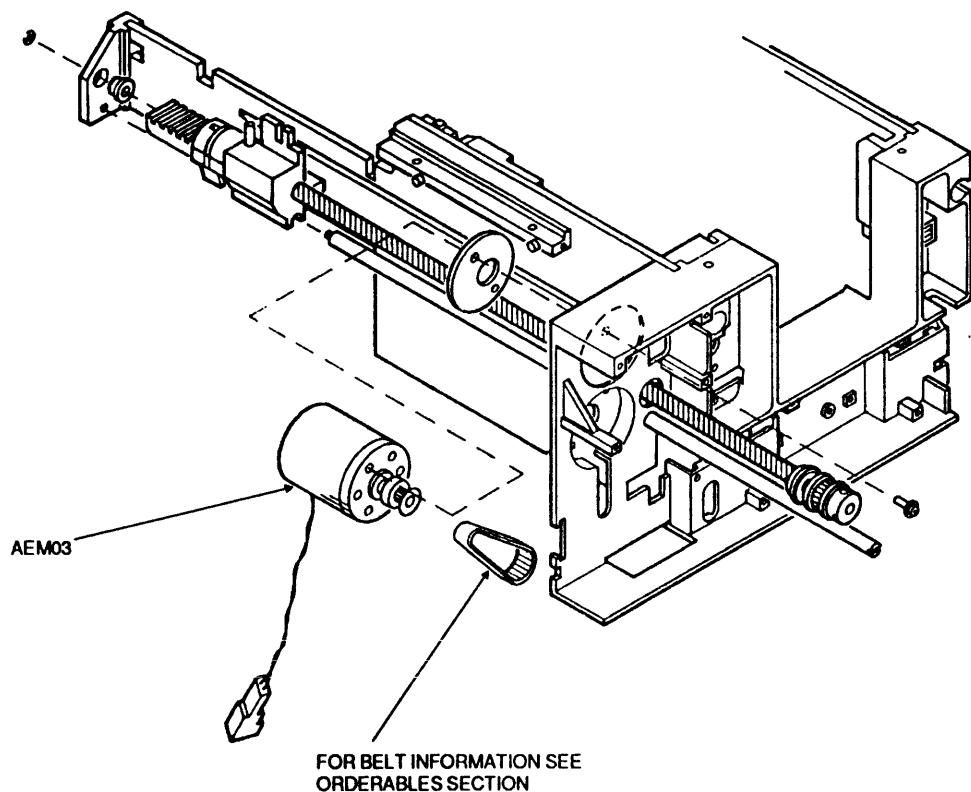


Figure 58. ACL Group
Lead Screw Drive Motor

ACL Assembly**Electro-Mechanical, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM03	277905XX	LEAD SCREW DRIVE MTR ASSY	1

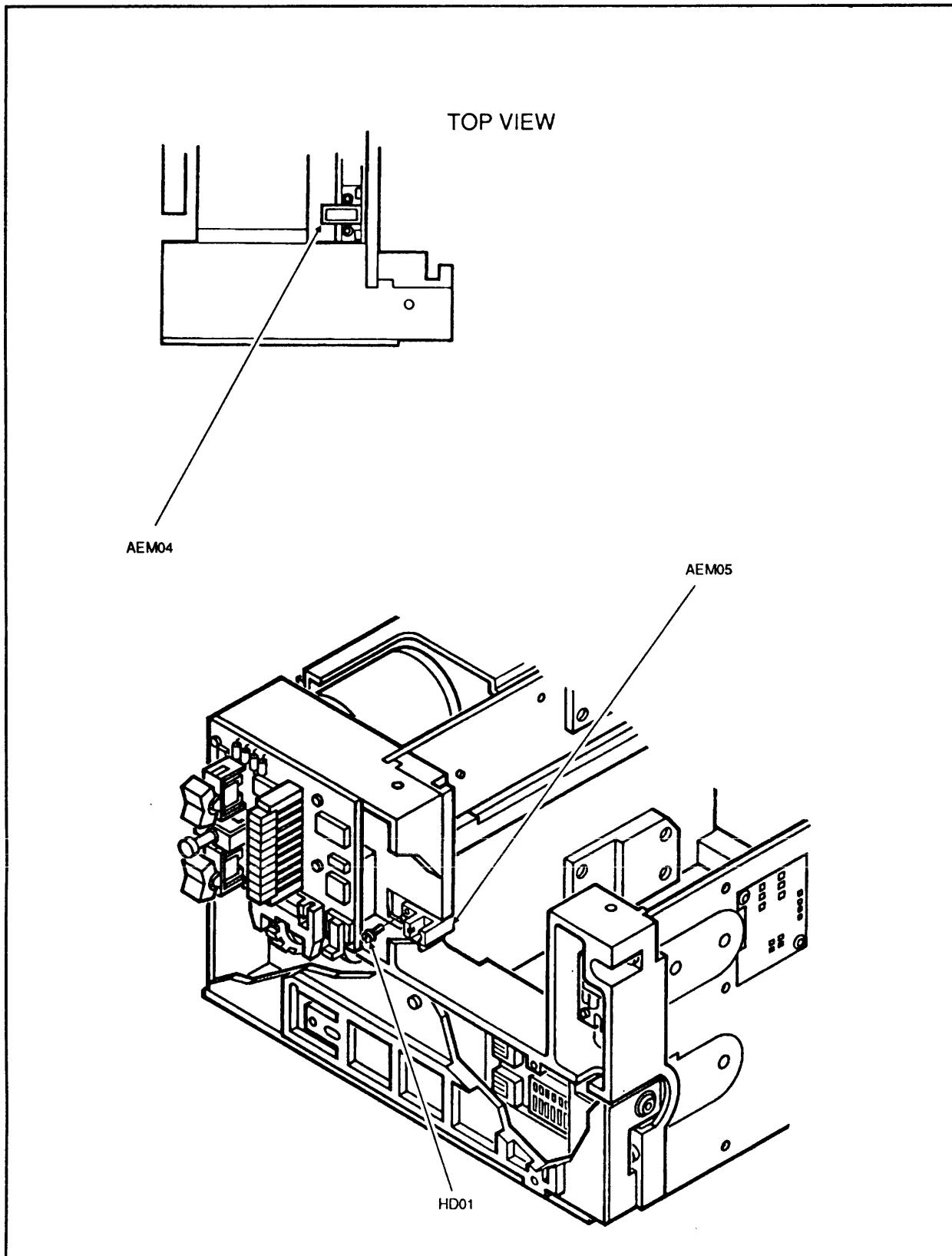


Figure 59. ACL Group
Horizontal Mag. Sensor and Mag. Index Sensor

ACL Assembly**Electro-Mechanical, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM04	277916XX	HORIZONTAL MAG SENSOR ASSY.	1
AEM05	277917XX	MAG INDEX SENSOR ASSY.	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, 4-40X3/8, Z	1

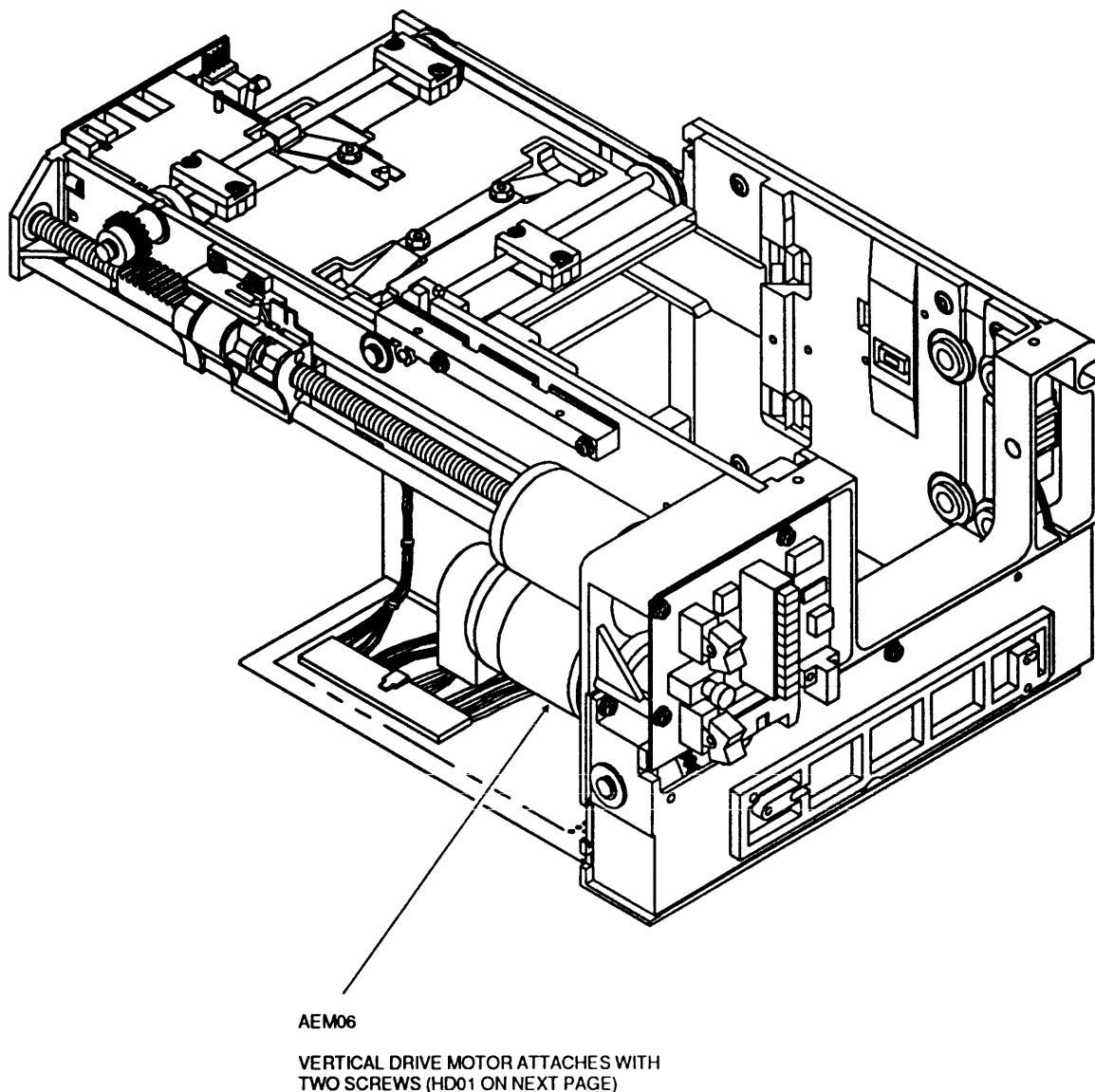


Figure 60. ACL Group
Verticle Drive Motor

ACL Assembly**Electro-Mechanical, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM06	277906XX	VERT DRIVE MOTOR ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 6-32X3/8, Z	2

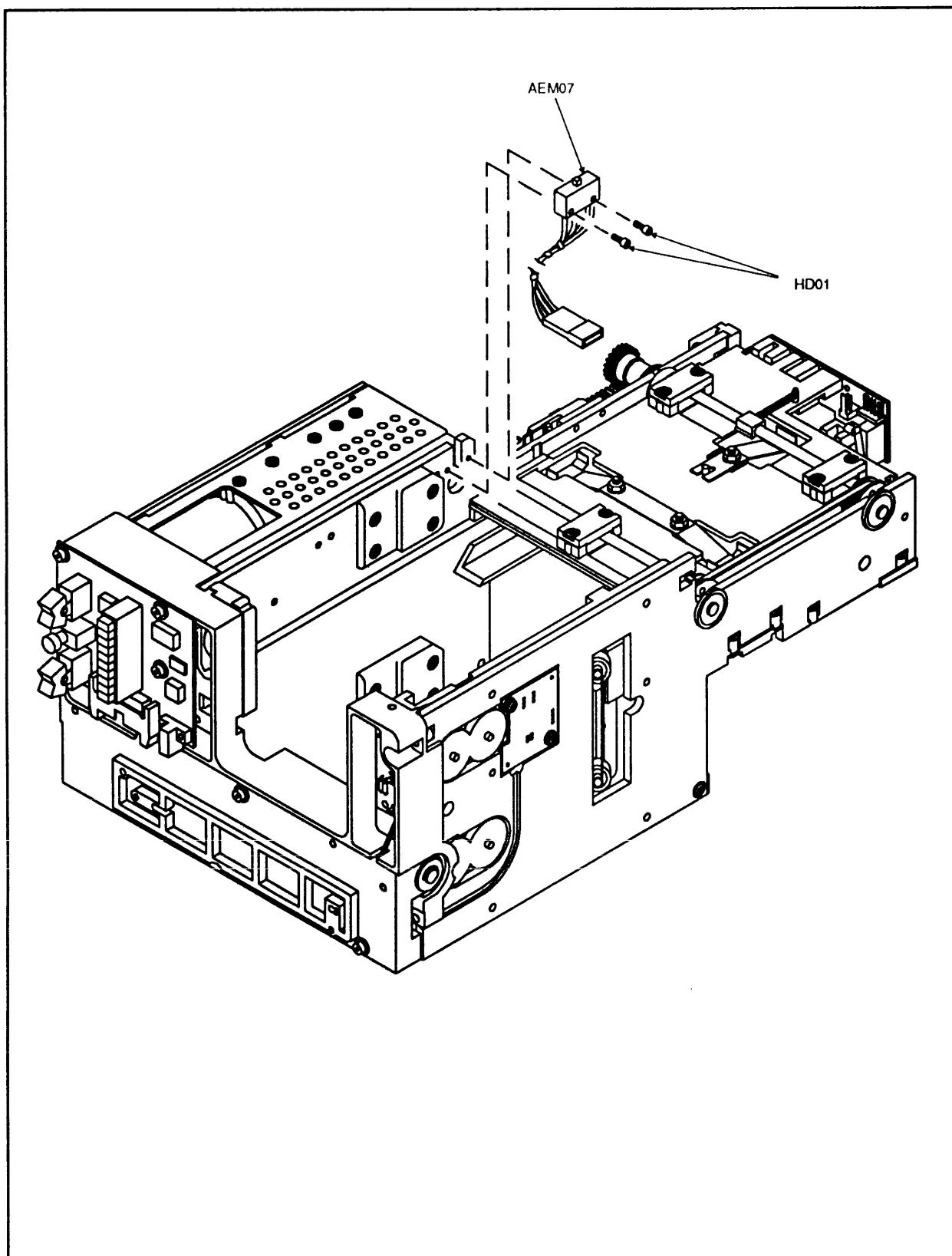


Figure 61. ACL Group
Motor Shut Off Switch

ACL Assembly

Electro-Mechanical, cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM07	278906XX	MOTOR SHUT OFF SWITCH (comes with cable)	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, SKT HD CAP, 2-56X3/8	2

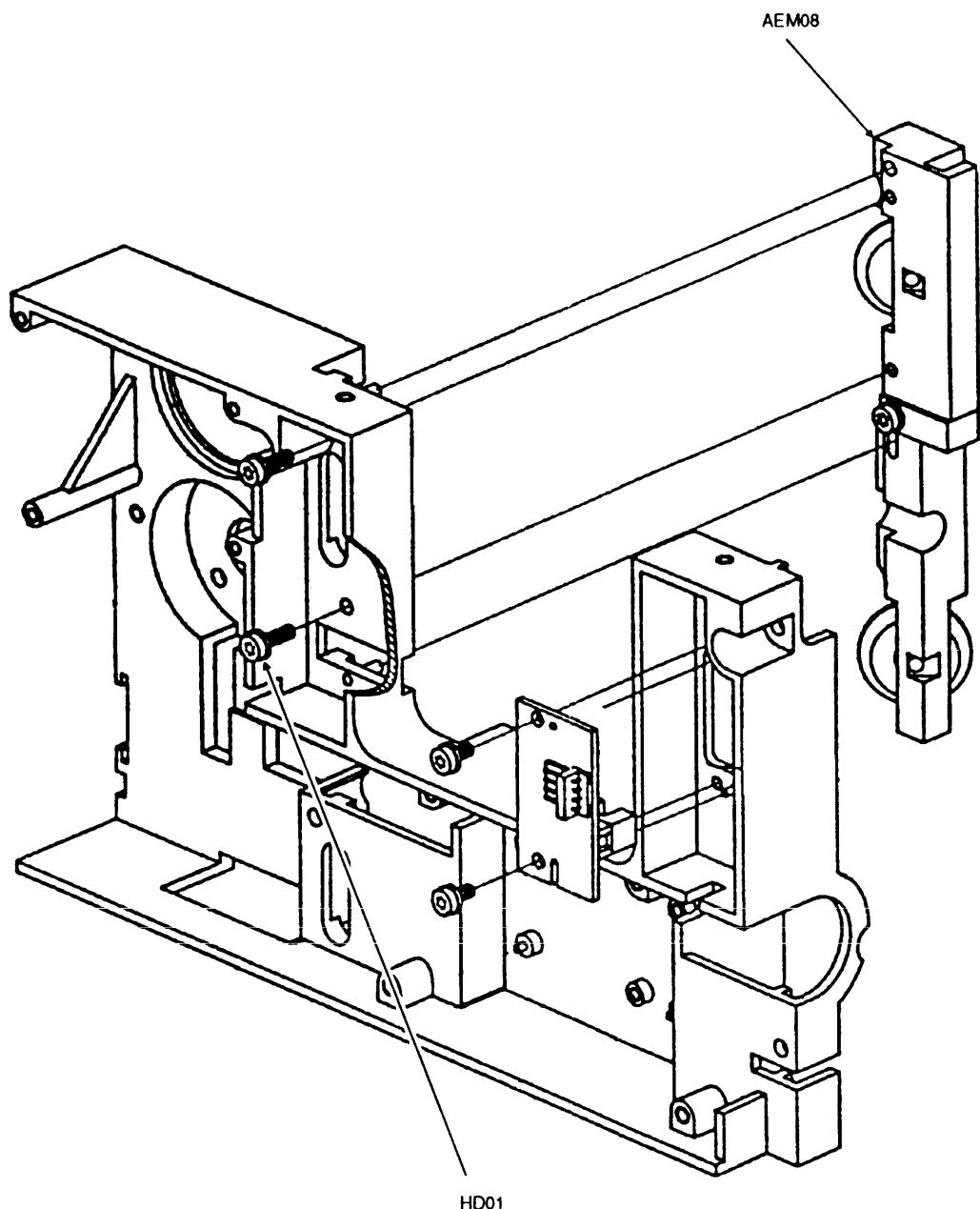


Figure 62. ACL Group
Roller Guide Block Assembly

ACL Assembly**Electro-Mechanical, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM08	277907XX	ROLLER GUIDE BLOCK ASSY	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 4-40X3/8, Z	2

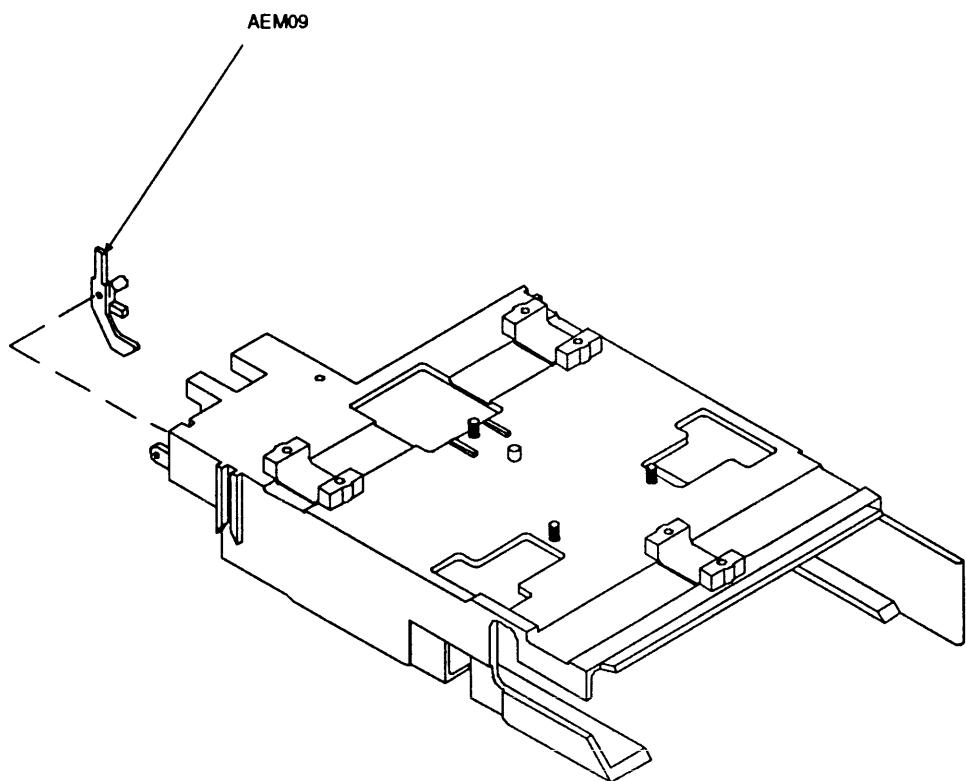


Figure 63. ACL Group
Cleaning Cart Sensor/Flag

ACL Assembly**Electro-Mechanical, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AEM09	276950XX	CLEANING CART SENSOR/FLAG	1

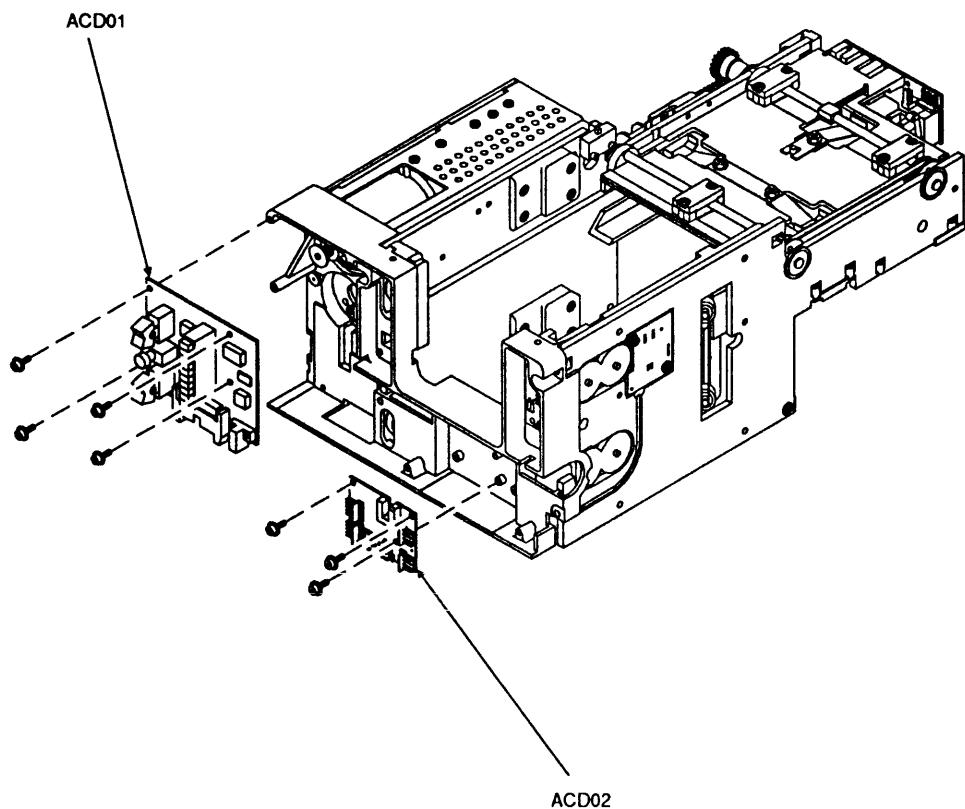


Figure 64. ACL Group
AS and RS Cards

ACL Assembly**Card Group**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
ACD01	28097XXX	CKT CD AS ASSY D/BUS	1
ACD02	28112XXX	CKT CD RS ASSY.	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, 4-40X3/8, Z	4
HD02	SCREW, PHT, SEMS, 4-40X1/4, Z	3

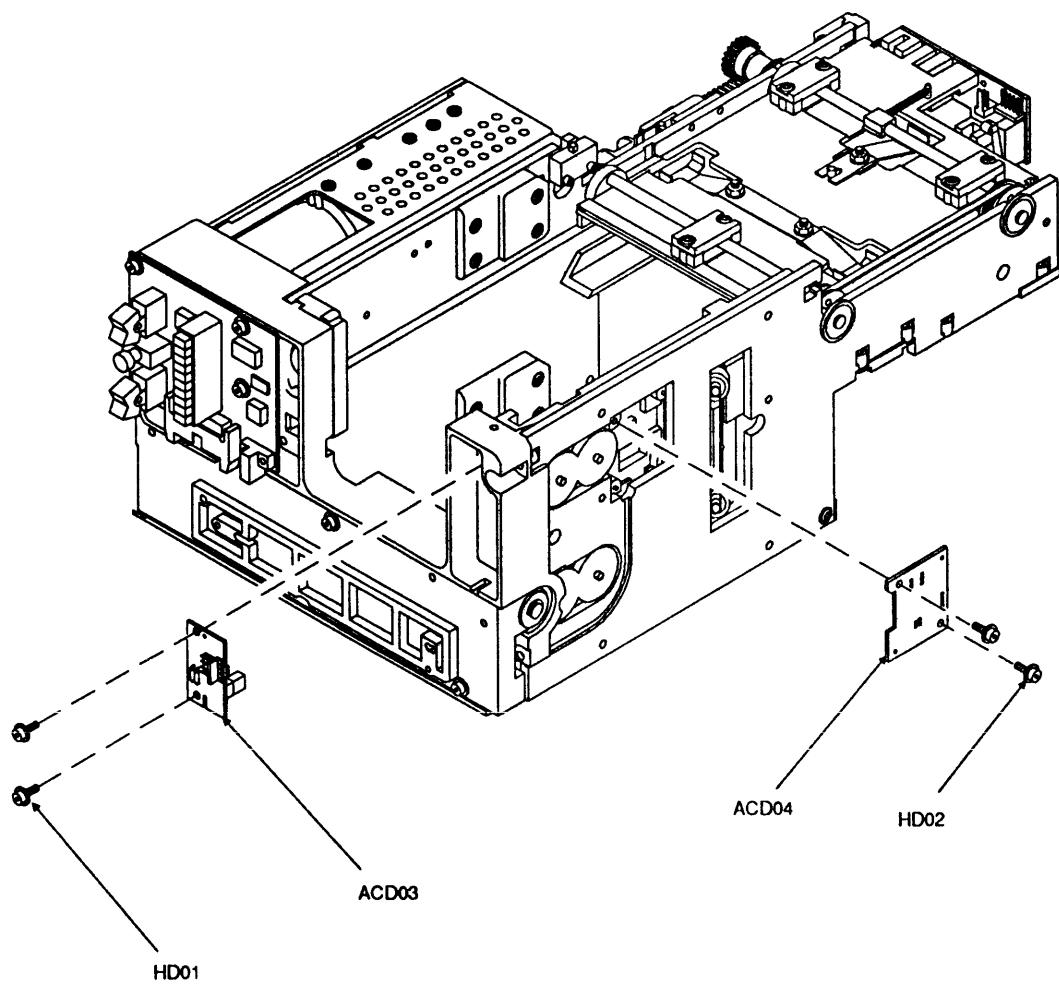


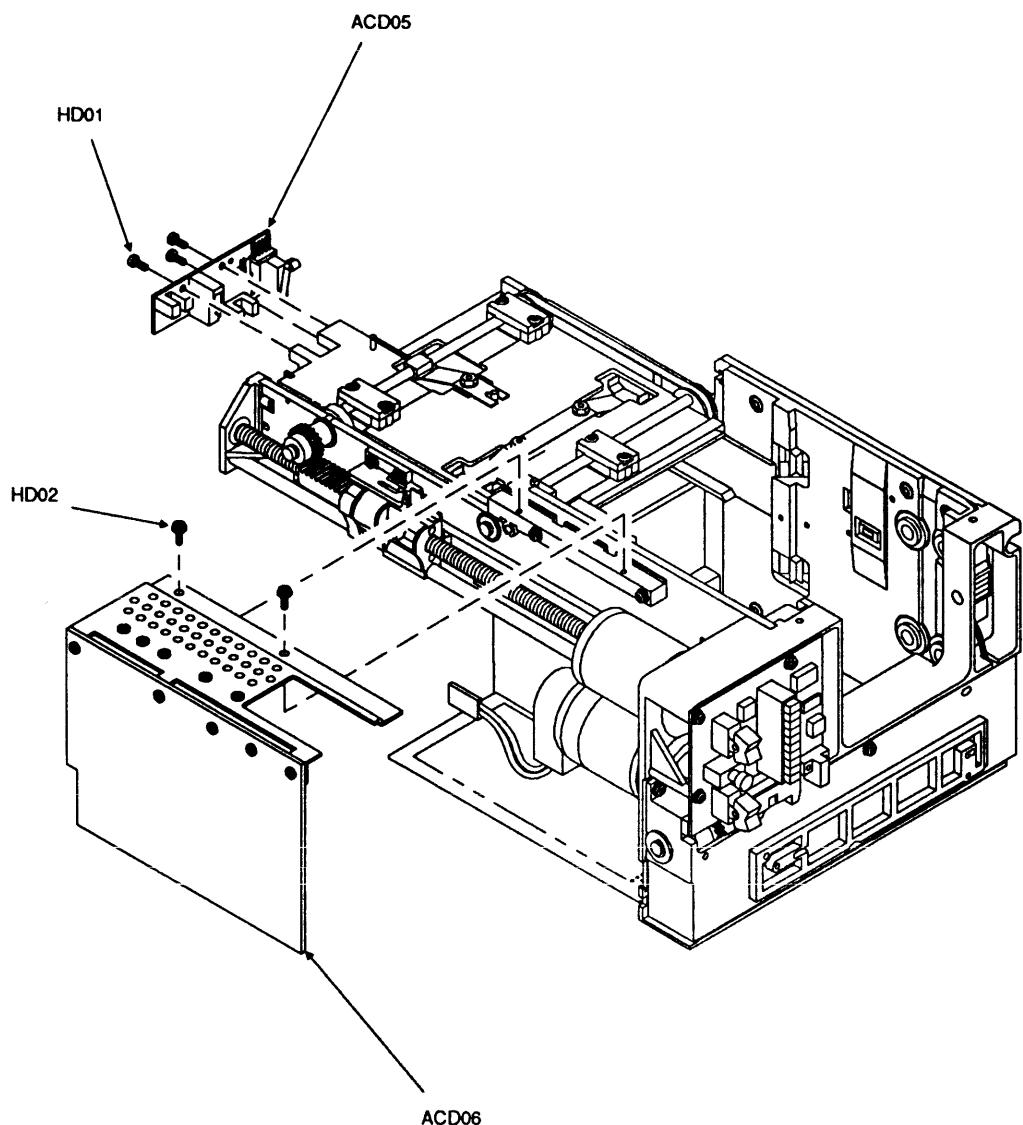
Figure 65. ACL Group
SS and CS Card

ACL Assembly**Card Group, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
ACD03	28106XXX	CKT CD SS ASSY.	1
ACD04	28109XXX	CKT CD CS ASSY.	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 4-40X1/4, Z	2
HD02	SCREW, THR FM, PHT, 4-20X1/4, S	2



**Figure 66. ACL Group
AC and FS Cards**

ACL Assembly

Card Group, cont.

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
ACD05	28103XXX	CKT CD FS ASSY.	1
ACD06	28091XXX	CKT CD AC ASSY. (D/BUS)	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PLASTITE, 4-40X3/8	3
HD02	SCREW, SEMS, 6-32X3/8	2

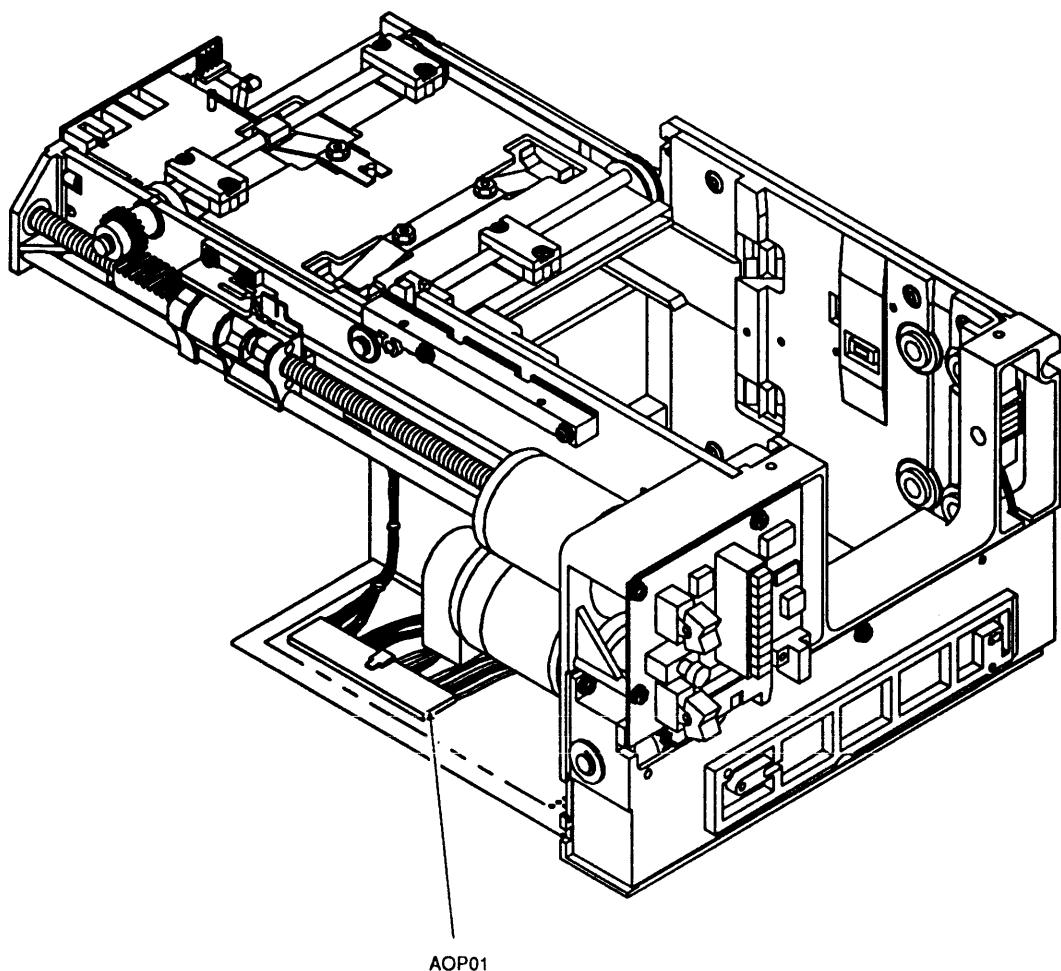


Figure 67. ACL Orderable Parts
AL Interconnect Cable

ACL Assembly**Orderable Parts**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AOP01	278902XX	CBL, AL INTERCONNECT	1

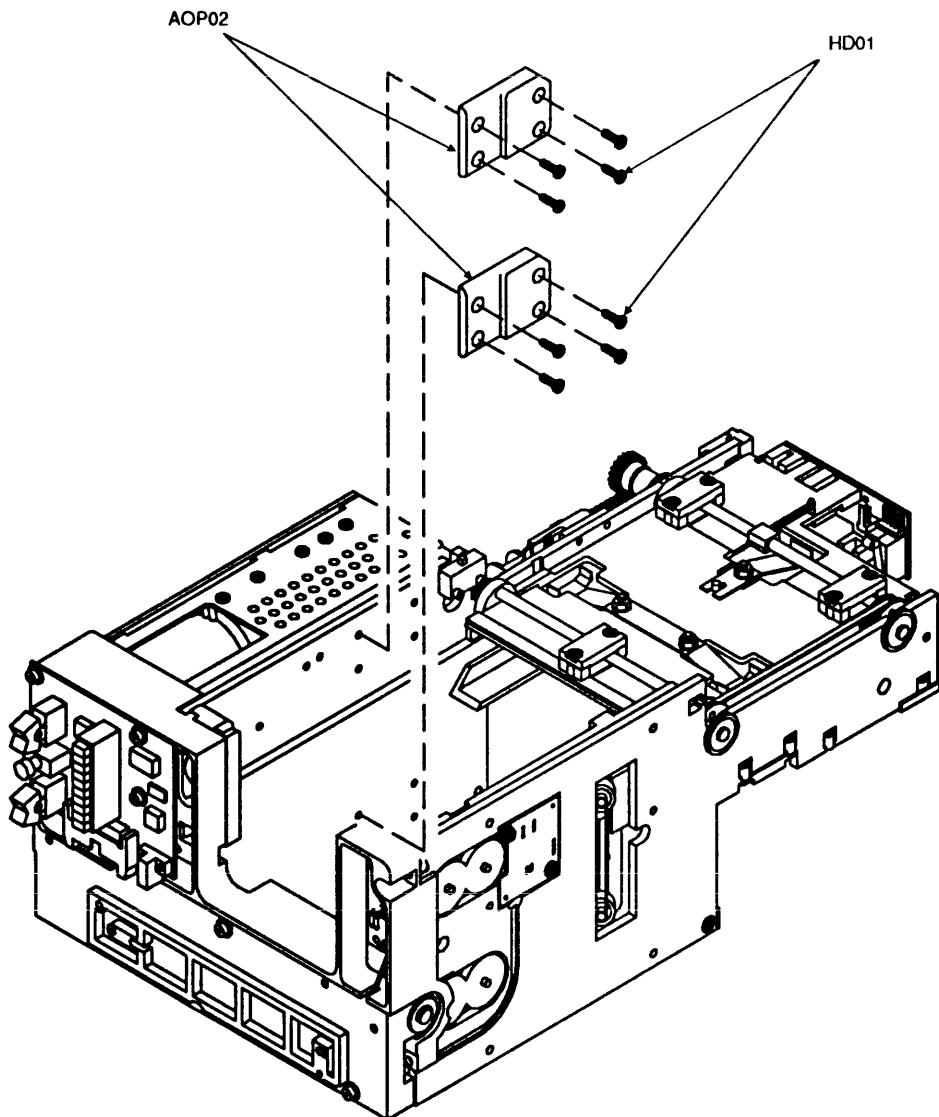


Figure 68. ACL Orderable Parts
Magazine Skid Plate

ACL Assembly**Orderable Parts**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AOP02	276959XX	MAG. SKID PLATE	2

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, 6-32X1/4, Z	8

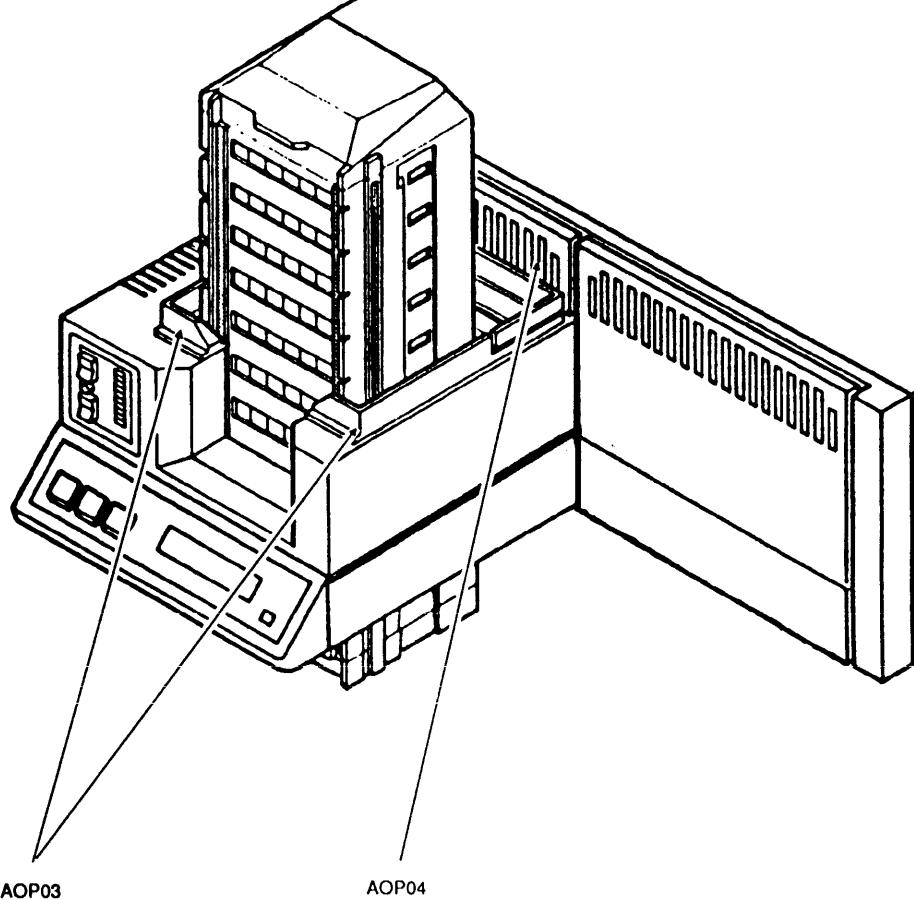
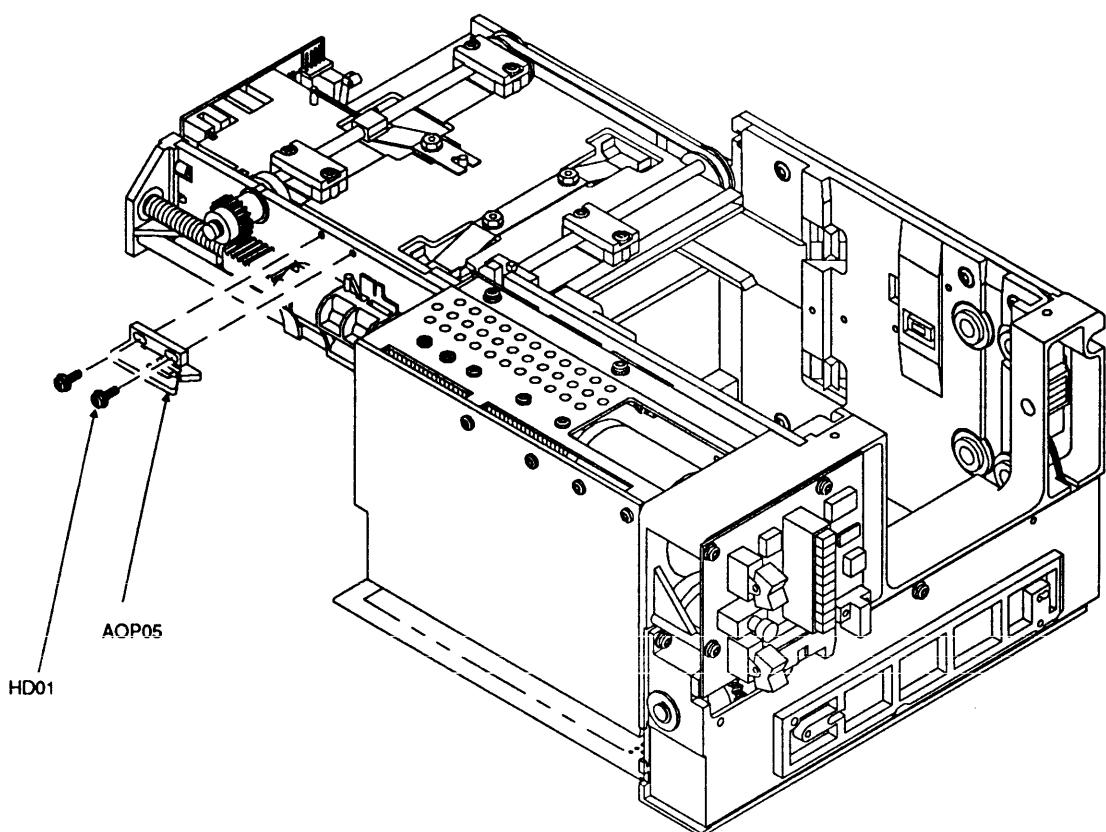


Figure 69. ACL Orderable Parts
Magazine Guide Ring and Bezel Fill Plate

ACL Assembly**Orderable Parts, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AOP03	277915XX	MAGAZINE GUIDE RING	1
AOP04	287631XX	BEZEL, FILL PLATE	1



**Figure 70. ACL Orderable Parts
Caliper Retainer**

ACL Assembly**Orderable Parts,cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AOP05	276986XX	CALIPER RETAINER	1

Attaching Hardware

<u>Fig Number</u>	<u>Description</u>	<u>Qty</u>
HD01	SCREW, PHT, SEMS, 4-40X3/8. Z	2

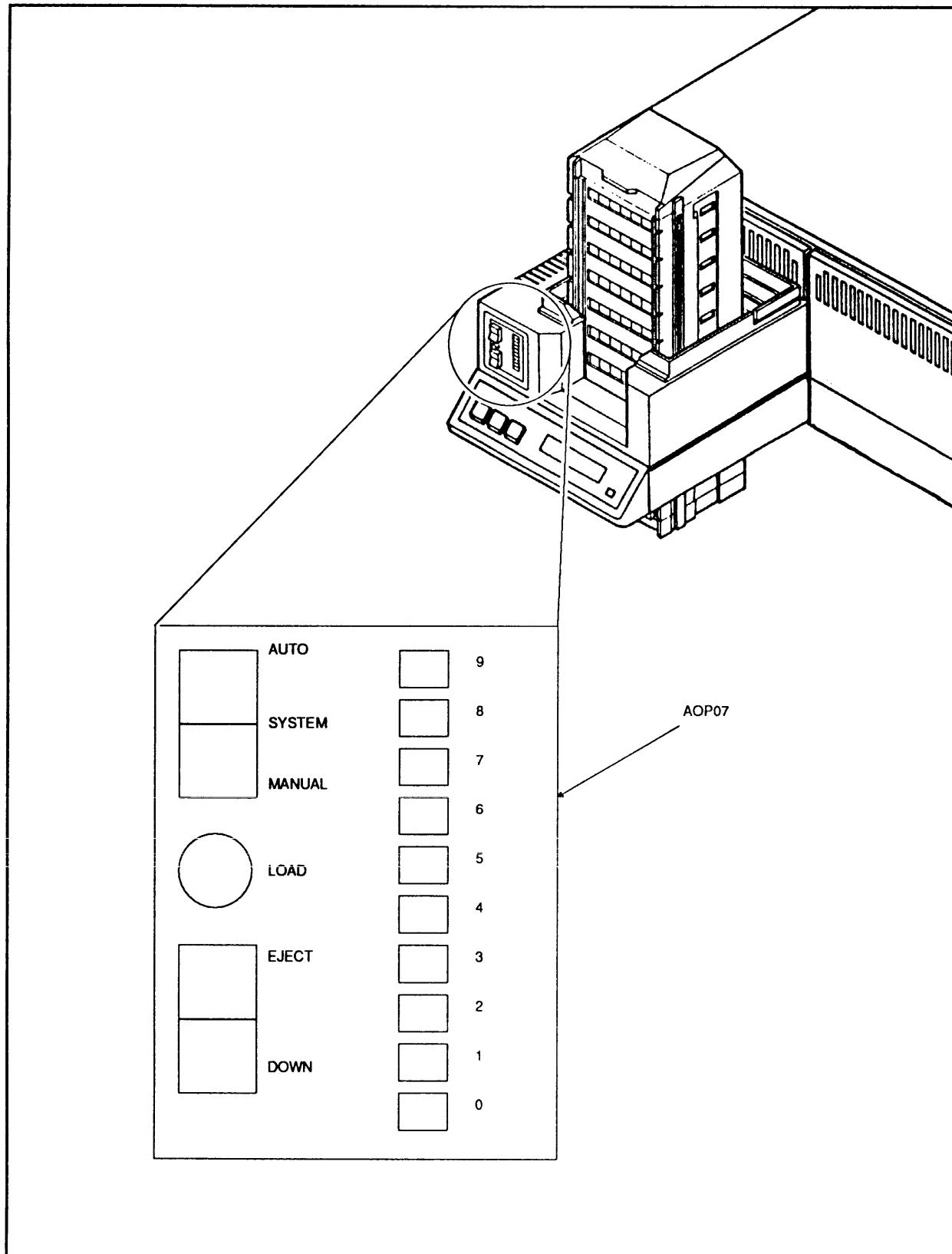


Figure 71. ACL Orderable Part
Overlay Autoloader (ACL)

ACL Assembly**2110 Orderable Parts, cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AOP07	276961XX	OVERLAY AUTOLOADER	1

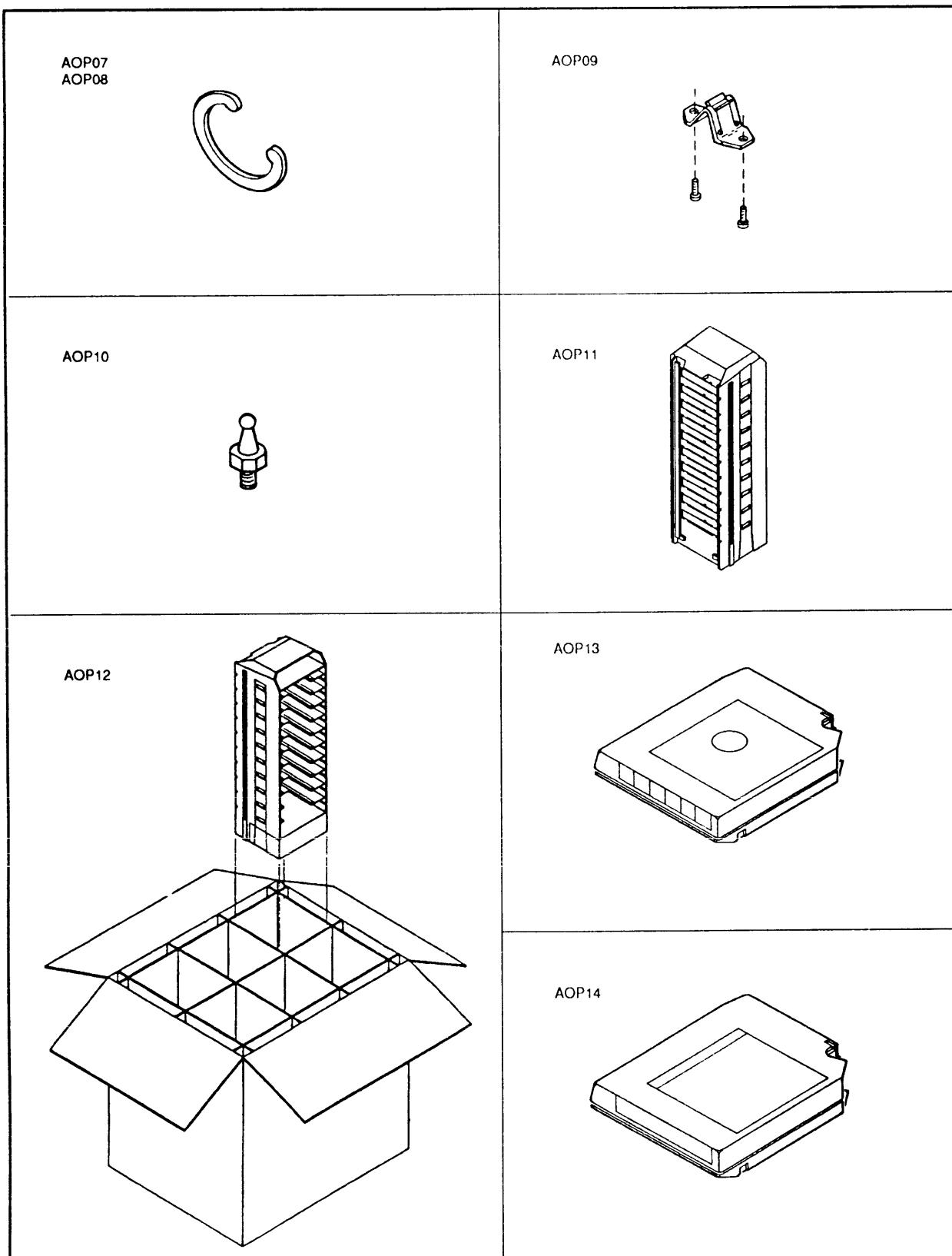


Figure 72. ACL Orderable Parts
Other Orderables

ACL Assembly**Orderable Parts,cont.**

<u>Fig. Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
AOP07	24020104	RING, RETAINER P/O-EXT. .188	1
AOP08	24020101	RING, RETAINER P/O-EXT. .250	1
AOP09	24018012	FASTENER, .125 x .012T	1
AOP10	24022051	BALL STUD, .473 x .312	1
AOP11	277939XX	ACL MAGAZINE ASSY	1
AOP12	277928XX	ACL MAGAZINE (PACK OF 6)	1
AOP13	24024253	BLANK TAPE, MRX	1
AOP14	24024254	CLEANING TAPE, MRX	1



4220 Cartridge Tape Subsystem
ILLUSTRATED PARTS CATALOG

28742001

This Page Intentionally Left Blank.

Index

A			
AC Card D/Bus	133	AS D/Bus	129
ACL Magazine (Pack of 6)	145	BT	75
ACL Magazine Assy	145	CP	39
Air Valve Assy	25	CS	131
AL Interconnect Cable	135	DCI	43
AS Card D/Bus	129	DP	37
		FS	133
		HI	49
		ML	33
		RI	45
		RS	129
		SB/SBI	45
		SH	73
		SM/SP	47
		SS	131
		ST	41
		SZ/SZI	35
		Carrier Assy	89
		Cleaning Cart Sensor/Flag	127
		Cleaning Tape, MRX	145
		Cover, Partition	79
		Covers	
		Deck	83
		Hinged, Top	77
		Panel, Frt, ML, Prl	99
		CP Card	39
		CS Card	131
		D	
		DC Power Cable	65
		DCI Card	43
		DCI Power Cable	67
		Deck Cover	83
		Deckplate Assembly	83
		DP Card	37
		Drive, Floppy, 3.5 Inch	23
		E	
		Electro-Mechanical	
		Fan 24V Assy	7
		Flex Circuit Read Assy	57
		Flex Circuit Write Assy	57
		Head FRU Assy	15

Horizontal Mag. Sensor Assy	119
Latch, Cover	21
Lead Screw Drive Motor Assy	117
Locator Leader Block Assy	11
Mag. Index Sensor Assy	119
Magazine Guide Assy	115
Manual Loader Assy	9
Motor/Thread Arm Assy	17
Power Supply Assembly	5
Supply Motor Assy	19
Take-Up Motor Assy	19
Thread Arm Cam Assy	13
Thread Arm Sensor Assy	71
Vertical Drive Motor Assy	121
Vertical Transmission Assy	115
End Caps	99

F

Fan 24V Assy	7
Fastener, .125 x .012T	145
Ferrite Bracket	59
Finger Guard, Fan, 4.69 Inch	69
Flag Cleaning Cartridge	127
Flex Circuit Read Assy	57
Flex Circuit Write Assy	57
Floppy Disks	
SCSI	97
Floppy Drive Assembly	23
FRU Kits	
SM/SP	47
FS Card	133

H

Head FRU Assy	15
HI Card	49
Hinged Top Cover	77
Horizontal Mag. Sensor Assy	119

I

Input Filter Assy	29
Insulator, BT/Chassis	75

L

Latch, Cover	21
Lead Screw Drive Motor Assy	117
Leader Block Guide	85
Locator Leader Block Assy	11

M	
Magazine Guide Assy	115
Magazine Index Sensor Assy	119
Magazine Skid Plate	137
Magazines	
Pack of Six	145
Single	145
Manual Loader Assy	9
Membrane, Panel Assembly	91
ML Card	33
ML DISP/BT Cable	55
ML/Disp Cable	57
Motor Shut Off Switch	123
Motor/Thread Arm Assy	17
Motors	
Motor/Thread Arm Assy	17
Supply Motor Assy	19
Take-Up Motor Assy	19
Vertical Drive Motor Assy	121
O	
Orderable Parts	
Bezel Assembly	99
Bezel, Front Power	101
Bracket, Front Switch	101
Carrier Assy	89
Cbl, BT/Floppy	53
Cbl, DC Power	65
Cbl, DCI Power	67
Cbl, ML DISP/BT	55
Cbl, ML/Disp	57
Cbl, PI/BT Logic	53
Cbl, PI/Pump	53
Cbl, Pwr PI/BT	55
Cbl, RI/BT	55
Cbl, RI/SB/SBI	63
Cbl, SB/SBI I/O	59
Cbl, SD/BT	55
Cbl, SM/ST	57
Cbl, Supply Mtr/SM	51
Cbl, Tach/ST	51
Cbl, Take Up Mtr/SM	51
Cover, Partition	79
Ferrite Bracket	59
Finger Guard, Fan, 4.69 Inch	69
Insulator, BT/Chassis	75
Leader Block Guide	85

Overlay Display	95	277910XX	115
Overlay, Autoloader	95	277915XX	139
PANEL, FRONT BLANK	93	277916XX	119
Panel, Front, Manual Loader, PRL	91	277917XX	119
Plate Tape Path	87	277928XX	145
Power Cable	61	277939XX	145
Retainer, Back, HI	81	278902XX	135
Retainer, Front, HI	81	278906XX	123
SCSI Floppy	97	28091XXX	133
SH Card	73	28097XXX	129
Support Bar, Top	79	28103XXX	133
Switch, Power Switch	101	28106XXX	131
Orderable Parts, 2110		28109XXX	131
Bezel, Fill Plate	139	28112XXX	129
Blank Tape, MRX	145	286990XX	105
Caliper Retainer	141	287300XX	97
Cbl, AL Interconnect	135	287532XX	21
Cleaning Tape, MRX	145	287533XX	87
Magazine (Pack of 6)	145	287566XX	103
Magazine Assy	145	287578XX	95
Magazine Guide Ring	139	28762900	75
Magazine Skid Plate	137	287631XX	139
Overlay Autoloader	143	287659XX	101
Output Filter Assy	29	28766400	79
Overlay Autoloader	143	288433XX	77
Overlay Display	95	288437XX	79
Overlay, Autoloader	95	288441XX	59
		288475XX	101
		288532XX	19
		288533XX	19
P		288534XX	17
Panel, Front Blank	93	288536XX	25
Part Numbers		288548XX	29
24017457	69	288549XX	29
24018012	145	288551XX	27
24020101	145	288552XX	11
24020104	145	288554XX	13
24022051	145	288555XX	71
24024253	145	288561XX	89
24024254	145	288567XX	7
24050539	101	288589XX	9
24055634	61	288595XX	91
250590XX	85	288596XX	93
276950XX	127	288611XX	83
276959XX	137	288621XX	81
276961XX	95, 143	288622XX	81
276986XX	141	289438XX	31
277904XX	115	289439XX	23
277905XX	117	289440XX	107
277906XX	121	289444XX	83

289451XX	99, 109, 111, 113	
289452XX	99	
289463XX	5	
289530XX	51	
289532XX	51	
289534XX	51	
289535XX	55	
289536XX	55	
289537XX	63	
289538XX	57	
289540XX	55	
289542XX	57	
289543XX	59	
289569XX	83	
289582XX	67	
290500XX	65	
290502XX	53	
290503XX	55	
290504XX	53	
290507XX	53	
290980XX	57	
290981XX	57	
29204XXX	45	
29291XXX	45	
29294XXX	49	
29306XXX	35	
29312XXX	41	
29321XXX	73	
29330XXX	33	
29333XXX	39	
29336XXX	37	
29342XXX	75	
29402XXX	43	
29800XXX	47	
404323101	15	
PI/BT Logic Cable	53	
PI/Pump Cable	53	
Pin, Cartridge	103	
Plate Tape Path	87	
Pneumatics		
Air Valve Assy	25	
Input Filter Assy	29	
Output Filter Assy	29	
Pneumatics Assembly	31	
Pressure Transducer Asy	27	
Pneumatics Assembly	31	
Power Cable	61	
Power Supply Assembly	5	
Pressure Transducer Assy	27	
Pwr PI/BT Cable	55	
		R
	Retainer, Back, HI	81
	Retainer, Front, HI	81
	RI Card	45
	RI/BT Cable	55
	RI/SB/SBI Cable	63
	Ring, Retainer P/O-Ext. .188	145
	Ring, Retainer P/O-Ext. .250	145
	Roller Guide Block Assy	125
	RS Card	129
		S
	SB/SBI Card	45
	SB/SBI I/O Cable	59
	SCSI Floppy	97
	SCSI I/F, Assy	105
	SD/BT Cable	55
	Sensors	
	Cleaning Cart Sensor/Flag	127
	Thread Arm Sensor Assy	71
	SH Card	73
	SM Card	47
	SM/ST Cable	57
	SM/ST/Deck Cable	83
	SP Card	47
	SS Card	131
	ST Card	41
	Supply Motor Assy	19
	Supply Mtr/SM Cable	51
	Support Bar, Top	79
	Switch, Front Power	101
	SZ/SZI Card	35
		T
	Tach/ST Cable	51
	Take Up Mtr/SM Cable	51
	Take-Up Motor Assy	19
	Thread Arm Cam Assy	13
	Thread Arm Sensor Assy	71
		V
	Vertical Drive Motor Assy	121
	Vertical Transmission Assy	115

READER'S COMMENT FORM**StorageTek.**

Account Name: _____ Date: _____

Installation Address: _____

City/State/Zip: _____

Manual Name: _____

Manual PN: _____

Please check or fill in the items, adding explanations/comments in the space provided.

Which of the following terms best describes your job?

- | | | | |
|--|--|---|--|
| <input type="checkbox"/> Field Engineer | <input type="checkbox"/> Engineer | <input type="checkbox"/> Instructor | <input type="checkbox"/> Manager |
| <input type="checkbox"/> Mathematician | <input type="checkbox"/> Operator | <input type="checkbox"/> Programmer | <input type="checkbox"/> Sales Representative |
| <input type="checkbox"/> Student/Trainee | <input type="checkbox"/> Systems Analyst | <input type="checkbox"/> Systems Engineer | <input type="checkbox"/> Other (explain below) |

How did you use this publication?

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> Introductory text | <input type="checkbox"/> Reference manual | <input type="checkbox"/> Student/Trainee | <input type="checkbox"/> Instructor text |
| <input type="checkbox"/> Other (explain below) | | | |

Did you find the material easy to read and understand?

- | | |
|------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No (explain below) |
|------------------------------|---|

Did you find the material organized for convenient use?

- | | |
|------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No (explain below) |
|------------------------------|---|

Specific criticisms (explain below):

Clarifications on pages _____

Additions on pages _____

Deletions on pages _____

Errors on pages _____

Explanations and other comments:

Fold and tape

Please Do Not Staple

Fold and tape

NO POSTAGE
NECESSARY IF
MAILED IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS PERMIT NO. 2 LOUISVILLE, COLORADO

POSTAGE WILL BE PAID BY ADDRESSEE

Storage Technology Corporation
2270 S. 88th St.
Louisville, CO 80028-0237

Fold and tape

Please Do Not Staple

Fold and tape

StorageTek.