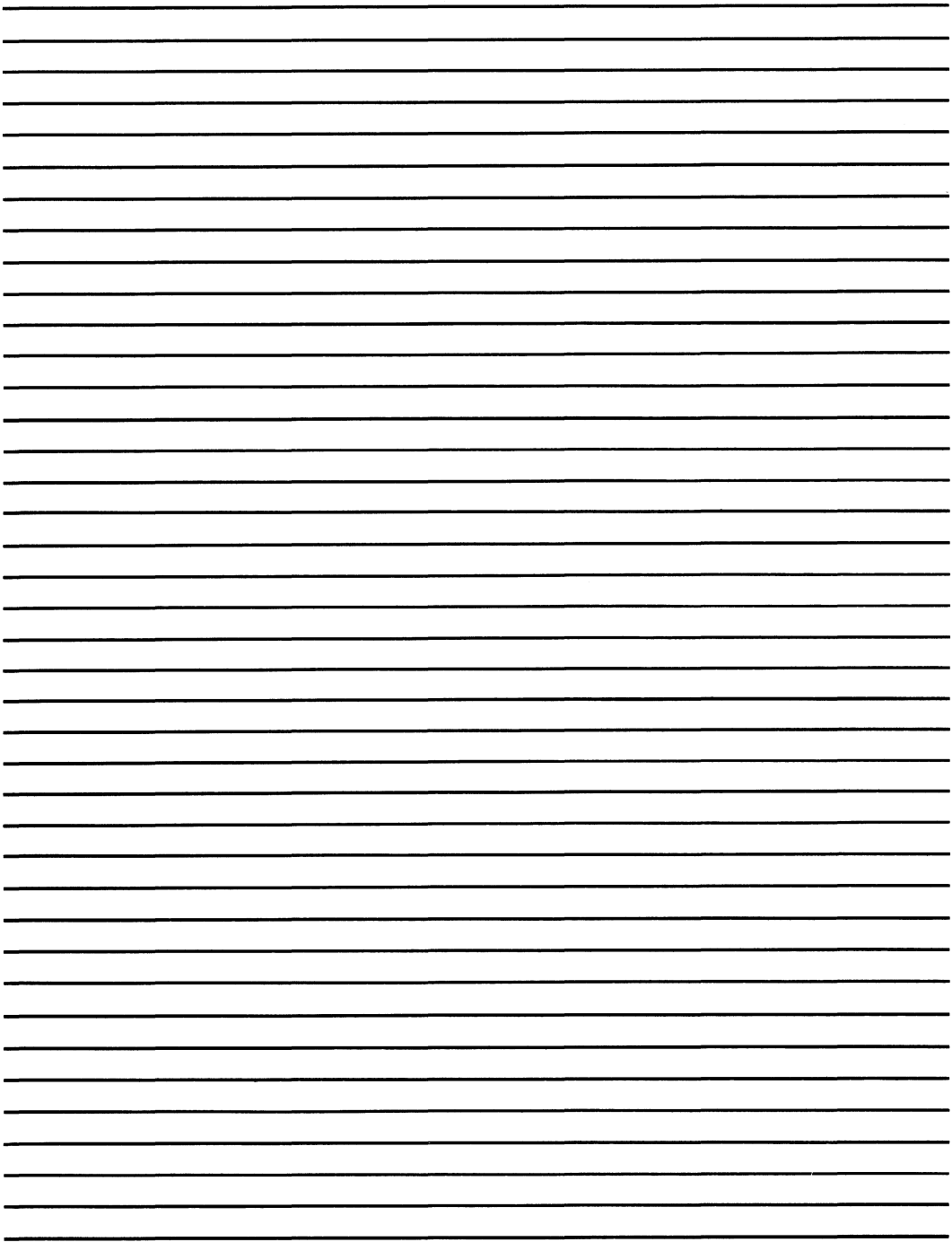


*Repair  
and  
Spare Parts  
Catalog*

EFFECTIVE JULY 25, 1986





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### INTRODUCTION

We, the management and employees of POINT 4 Data Corporation, firmly believe that the quality of the products and services we provide to you, our customer, is the most important aspect of our activity. We always strive to achieve the lowest practical cost to enhance our mutual competitiveness and profitability, but accept no compromise when it comes to quality, reliability, or performance.

This publication describes some of the services that we provide for you after you have received your hardware products, and also the conditions, procedures, and prices that pertain to such services.

If, in spite of our best efforts, we do not provide you with the quality products and services that you expect, please call and remind us of our commitment to quality and to You.

POINT 4 DATA CORPORATION

## WARRANTY POLICIES

### WARRANTY PERIODS

As described in greater detail in POINT 4's distribution agreements, all equipment manufactured by POINT 4 Data Corporation is warranted to be free from defects in materials and workmanship for one full year. Products sold, but not manufactured by POINT 4, such as disk drives, tape streamers, printers, video display terminals etc., are warranted to be free of defects in materials and workmanship for a period of 90 days. Defective products returned to POINT 4 during the warranty period will be repaired or replaced at POINT 4's option.

### 30 DAY EXCHANGES

To alleviate any problems during initial installation POINT 4 will exchange any defective product, at no charge to the customer, during the first 30 days after shipment. This courtesy is extended only to the original purchaser of the equipment.

All prices, terms and conditions in this catalog are subject to change without notice.

## PROCEDURES

### 30 DAY EXCHANGE

In the event of a failure within the first 30 days after shipment, the customer should contact POINT 4 Hardware Technical Support. After verification of the failure, Hardware Technical Support will transfer the customer to Customer Service Administration. Please provide Customer Service with the part number and serial number of the the defective unit and also the ship-to address and required method of shipment for the exchange. The administrator will issue a Return Authorization (R.A.) number for the defective equipment and arrange for shipment of the exchange. When returning the exchanged unit, please note the R.A. number on the outside of the shipping container.

The customer is expected to return the defective unit to POINT 4 within two weeks of the receipt of the exchange unit. An invoice will be sent to the Customer if the defective unit is not received within thirty days.

### REPAIRS

Equipment repaired by POINT 4 is warranted for thirty days. The standard turnaround time for repair of POINT 4 manufactured products is 10 working days. The majority of the peripheral products sold but not manufactured by POINT 4 have a standard turnaround time of 5 days. The manufacturers of these peripheral products require in excess of 4 weeks for their repair cycle. In order to provide timely service to our

customers, POINT 4 will, after verification of a failure on a customer's peripheral unit, exchange their unit with a like unit. The following products are not exchanged and therefore the repair time may be significantly longer: 1/2 inch streamers and their controllers, and video display terminals.

Please pay particular attention to the packaging of peripherals for shipment; see section on packaging.

POINT 4 has available a 72 hour expedited turnaround for an additional 50% of the out-of-warranty repair price. If due to the severity of a problem or in case of a No-Fault-Found when the 72 hour turnaround cannot be met, the customer will be notified prior to the end of the 72 hour period and the expedite charge will be waived.

Before returning any equipment to POINT 4 for repair, please call Customer Service Administration for a Return Authorization (R.A.) number. This number will allow for tracking once the unit arrives at POINT 4. At this time, please provide the Customer Service Administrator with the following information:

1. Your Company's name, address and phone number.
2. Ship to address, if different from above.
3. Part number and serial number of the defective unit.
4. Purchase order number. (if out-of-warranty or expedited)
5. A description of the problem or failure mode.
6. A person to contact at your company who can answer questions relating to the problem.
7. Standard or 72 hour expedited turnaround.
8. Method of return shipment.



When sending the unit in for repair, please note the R.A. number on the outside of the shipping container.

If, in POINT 4's opinion, a unit has been subjected to abnormal use or undue physical or electrical stress, the warranty on the unit will be considered void. Pricing will be on a time and materials basis, \$50.00/hour, with a 2 hour minimum. The customer will be informed prior to any work being done and a Purchase Order will be required.

Units returned for repair in which the reported problem cannot be confirmed after reasonable effort and in which no other fault is found will be subject to a "No Fault Found" fee of \$100.00.

If in POINT 4's opinion a unit under warranty is judged to be unrepairable it will be replaced free of charge with a like unit. The warranty on the replacement will be equal to that remaining on the original unit.

If a unit, judged to be unrepairable by POINT 4, is no longer under warranty, POINT 4 will provide a trade-in allowance toward the purchase of a new unit. The amount of trade-in allowance is dependent upon the length of time the unit was in service and varies from 48% to 4% during the first 4 years. Beyond 4 years there is no trade-in allowance available.

#### **FREIGHT CHARGES**

POINT 4 will ship 30 day exchanges either "second day" or "next day" air, depending on the customer's requirements.

During the remainder of the warranty period, POINT 4 will bear the expense of returning the repaired unit to the customer, surface freight. Units shipped air freight at the request of the customer will be shipped freight collect. When the shipment cannot be sent collect, as with UPS, an invoice for the freight charges will be sent to the customer. In both cases the customer is responsible for all freight and insurance costs when shipping to POINT 4. When an item is out-of-warranty, the customer is responsible for all freight and insurance costs both ways.

#### **PACKAGING**

Any product returned to POINT 4 must be in the original packaging or POINT 4 standard packaging. If the product is returned in a non-standard, non-approved shipping container which results in damage, the warranty will be voided. If the item to be returned is under warranty, POINT 4 will, at the customer's request, ship the required packaging surface freight at no charge. If the item to be returned is out of warranty packaging may be purchased through POINT 4 Production Control.

#### **RENTALS**

A customer with a valid Distribution or VAR Agreement in effect may rent equipment from POINT 4, if it is of the same type as the one being returned for repair. The monthly rental fee is 6% of the full list price for POINT 4 manufactured products and 10% of the full list price for items sold but not manufactured by POINT 4. These fees are not discountable. In addition, there will be a \$40.00 handling fee added to the first month's rental fee. Fees for additional months will be

invoiced every 30 days until the rental unit is returned.

**FUJITSU DISK DRIVES (Out-of-warranty)**

Fujitsu has varying repair prices depending on what is wrong with the drive. In an effort to charge a fair price to our customers while also preserving a quick turnaround, the following procedure has been implemented.

If an out-of-warranty Fujitsu drive is sent to POINT 4 for repair, an exchange will be sent to the customer after the failure has been verified. The exchange will be billed at the maximum charge. The customer's purchase order should also reflect this charge. When the drive is returned from repair by Fujitsu, the actual charge to our customer will be developed and matched to the initial charge. If required, a credit will be issued.

**SPARE PARTS  
POLICIES & PROCEDURES**

Orders for spare parts must be placed with POINT 4 Production Control.

The minimum order is \$50.00 and a purchase order from the customer is required.

Customers with a valid Distribution or VAR Agreement in effect are entitled to a 20% discount on the published price of all spare parts.

Prices and availability are subject to change without notice. All sales are final.

Pricing is per unit unless otherwise specified in the comments section.

Proms are shipped programmed with the latest revision of code, unless otherwise requested by the customer. In the description of the prom's I.D. code, "X" takes the place of the revision level.

All assemblies and peripherals are fully tested and inspected by POINT 4 before shipment.

Spare Parts will be shipped within five working days of the day the order was placed. Parts are shipped FOB from POINT 4's Tustin, California manufacturing facility.

POINT 4 agrees to ship required emergency spares within one business day from receipt of order. There will be an additional fee for this special service, \$50.00 or 25% of the total order whichever is less.

## REPAIR PRICES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
1. 020003	MK2/3 CPU	\$ 375.00
2. 020103	MK2/3 CPU Expansion	100.00
3. 021003	MK3 P.I.B.	275.00
4. 021103	MK2/3 Port Expansion	80.00
5. 021503	MK2 P.I.B.	275.00
6. 024103	MK3 Power Supply	250.00
7. 025003	MK3 Rack Mount Chassis with backplane replacement add 160.00	125.00
8. 026603-XX 026703-XX 026803-XX 026903-XX	Rack Mount Peripheral Subsystems *	200.00
9. 029003	MK3 Tabletop PCB Chassis Assy. with backplane replacement add 160.00	125.00
10. 029303-XX	MK2 Chassis * with backplane replacement add 160.00	250.00
11. 029403	MK2 Power Supply	250.00
12. 029503-XX	MK3 Tabletop Peripheral Chassis * (Priam)	200.00
13. 029603-XX	MK3 Tabletop Peripheral Chassis * (Fujitsu)	200.00
14. 030003	Multiplexer, 8 Port	300.00
15. 030103	Mux Expansion 24 Port	250.00

\* The repair price includes testing of the system's peripherals but does not include their repair or replacement; see repair prices for each individual peripheral.

## REPAIR PRICES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
16. 030113	Mux Expansion 16 Port	\$ 210.00
17. 030123	Mux Expansion 8 Port	170.00
18. 031003	Mighty Mux 310-A8, 8 Port	300.00
19. 031013	Mighty Mux 310-A4, 4 Port	275.00
20. 032203	Connector/Cable	75.00
21. 032213	Connector/Cable, current loop	100.00
22. 034003	External Mighty Mux Power Supply, to 128 Ports	125.00
23. 034013	External Mighty Mux Power Supply, to 64 Ports	100.00
24. 034023	External Mighty Mux Power Supply, to 32 Ports	75.00
25. 034233	External Mighty Mux Power Supply, current loop to 32 Ports	125.00
26. 053000-XX/ 053019-XX	MK4 PIB Expansion	100.00
27. 053001-XX/ 053018-XX	MK4 PIB	325.00
28. 053002-02	MK4 CPU Memory, 512KB	200.00
29. 053003/ 053027	MK4 CPU	400.00
30. 053008	MK12 CPU	500.00
31. 053009-01	MK12 Extended Memory, 2MB	400.00
32. 053009-02	MK12 Extended Memory, 4MB	500.00
33. 053016-01	Lotus Cache Memory 2MB	400.00

## REPAIR PRICES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
34. 053016-02	Lotus Cache Memory 4MB	\$ 500.00
35. 053026-01	MK4, CPU Memory, 1MB	225.00
36. 053026-02	MK4, CPU Memory, 2MB	250.00
37. 060003	MK5 CPU, 128KB	450.00
38. 060013	MK5 CPU, 64KB	350.00
39. 061003	MK5 CPU W/Extended Instruction Set	500.00
40. 061013-00	MK5 CPU, 64KB	350.00
41. 061013-01	MK5 CPU, 128MB	450.00
42. 061903-XX	MK9 CPU	500.00
43. 061923-04	MK9 CPU	500.00
44. 063003	MK5 Power Supply	250.00
45. 063023	MK9 Power Supply	300.00
46. 064003	MK5 Power Supply	300.00
47. 065003	MK5 Chassis with backplane replacement add 576.00	150.00
48. 065013-XX	MK9 Chassis with backplane replacement add 576.00	150.00
49. 069803-XX	MK5 MPS (5/9)	250.00
50. 069903	MK5 MPS	250.00
51. 070003	Lotus 700 Controller	375.00
52. 071003	Lotus 710, SMD/CMD/LMD Controller	350.00
53. 072003	Lotus 720, QIC-02 Interface	250.00
54. 073003	Lotus 730, Multifunction Controller	400.00

## REPAIR PRICES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
55. 080003-00	Lotus Cache Memory 128B	\$ 250.00
56. 080003-01	Lotus Cache Memory 256KB	300.00
57. 080003-02	Lotus Cache Memory 512KB	350.00
58. 080003-03	Lotus Cache Memory 1MB	400.00
59. 081001-XX	MK4 Chassis * with backplane replacement add 190.00	350.00
60. 082012-01 082012-03	MK12 Power Supply W/O BBU	300.00
61. 082012-02 082012-04	MK12 Power Supply W/BBU	350.00
62. 082013-XX	MK12 Chassis with backplane replacement add 1290.00	200.00
63. 087003-13	L.C.M. Power Supply	150.00
64. 901113	Tape Streamer, 8", 20MB (Cipher, 420-90 or Archive, 9020L-2)	400.00
65. 901115	Disk Drive, 8", 35MB (Priam, 3450)	1600.00
66. 901116	Disk Drive, 8", 70MB (Priam, 7050)	2000.00
67. 901117	Disk Drive, 8", 84MB (Fujitsu, M2312)	160.00-1760.00
68. 901118	Disk Drive, 8", 168MB (Fujitsu, M2322)	160.00-2160.00

\* The repair price includes testing of the system's peripherals but does not include their repair or replacement; see repair for each individual peripheral.



## REPAIR PRICES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
69. 901119	Tape Streamer, 1/2" tape, 92MB (Cipher-F880).	\$ 360.00-1960.00
70. 901121	Disk Drive, 8", 337 MB (Fujitsu, M2333)	160.00-2160.00
71. 901122	Magnetic Tape Subsystem, 1/2", 500MB (Megatape, MT-500C)	400.00-800.00
72. 901201	Disk Drive, 5 1/4", 19MB (C.M.I., 5619)	360.00
73. 901202	Tape Streamer, 5 1/4", 20MB (Archive, 5920L-2)	425.00
74. 901203-01	Tape Streamer, 5 1/4", 45MB, 24V (Cipher, 540)	400.00
75. 901204	Disk Drive, 5 1/4", 46MB (Atasi, 3046)	480.00
76. 901206	Disk Drive, 5 1/4", 13MB (C.M.I., 5412)	360.00
77. 901208	Tape Streamer, 5 1/4", 45MB, 12V (Archive, 5945L-2)	425.00
78. 901209	Disk Drive, 5 1/4", 86MB (Fujitsu, M2243)	160.00-800.00
79. 901211	Disk Drive, 5 1/4", 55MB (Fujitsu, M2242)	160.00-720.00
80. 901212	Disk Drive, 5 1/4", 27MB (Fujitsu, M2235)	160.00-600.00
81. 901301	Cassette Tape Unit (A.D.P.I., RS232)	300.00
82. 901703	Model 725 1\2-inch Magnetic Tape Controller	360.00

## REPAIR PRICES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
83. 901705	Lotus 740/745 Controllers	\$ 400.00
84. 904101/ 904101-01	WS100 Video Display Terminal (Lear Siegler, ADM-11)	105.00 keyboard only  265.00 monitor only or w/keyboard

## OPTIONS AND UPGRADES

PART NUMBER	DESCRIPTION/COMMENTS	PRICE
1. 060013/ 061013-00	Memory Upgrade, Mark 5 CPU'S only. (Adds 64KB of memory.)	\$ 950.00
2. 031013	Multiplexer Port Upgrade (Adds additional 4 ports to a 4 port mux, 310-A4)	500.00
3. 0301X3	Multiplexer Expansion port upgrade, (Adds 8 ports to a 301-A8 - 8 port or 301-A16 - 16 port expansion mux.)	500.00
	(Adds 16 ports to a 301-A8 - 8 port expansion mux.)	900.00
4. 021503	Mark 2T P.I.B. upgrade (Adds E.C.O. which allows its use with 86MB drives. This raises the revision level to "C".)	300.00
5. 065003	Mark 5 Chassis upgrade to Mark 9 (upgrades 065003 to 065103-01)	200.00
6. 063003	Mark 5 Power Supply upgrade to Mark 9 (upgrades 063003 to 063023)	150.00
7. 031006	On-Board Power Supply Option for Mighty Mux, 031003	100.00
8. 020003	Mark 3 upgrade for 64KB Memory Expansion Board If microcode prom change is required add \$296.00.	275.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
<b>MARK 2/3 SYSTEM COMPONENTS</b>			
1. 020003	CPU Assembly, (Mark 2 or Mark 3 must be specified due to differing PROM).		\$ 1940.00
2. 021003	Peripheral Interface Assembly (P.I.B.) Mark 3		1160.00
3. 021503	Peripheral Interface Assembly (P.I.B.) Mark 2		1725.00
4. 024103	Power Supply Assembly, Mark 3		1090.00
5. 029403	Power Supply Assembly, Mark 2		1175.00
<b>MARK 2/3 CPU ASSEMBLY PT 4 P/N 020003</b>			
1. PM1CR02	Microcode Proms for Mark 2 CPU Assembly (set of 8 Proms, 212725). Price per each is \$37.00.	8B-11B 13B,14B 9C,10C	296.00
2. PMAN1P2	Manip proms for Mark 2 CPU Assembly (set of 2 Proms, 212729). Price per each is \$19.00.	5E,6E	38.00
3. PM1CR03	Microcode Proms for Mark 3 CPU Assembly (set of 8 Proms, 212725). Price per each is \$37.00.	8B-11B 13B,14B 9C,10C	296.00
4. PMAN1P3C	Manip proms for Mark 3 CPU Assembly - CTU Interface (set of 2 Proms, 212729). Price per each is \$19.00.	5E,6E	38.00
5. PMAN1P3A	Manip proms for Mark 3 CPU Assembly - streamer Interface (Set of 2 Proms, 212729). Price per each is \$19.00.	5E,6E	38.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
6. 202903	I.C., 2903ADC	4BC-7BC	\$ 52.50
7. 204116	I.C., D-RAM 16Kx1	9F-24F 9H-24H	3.00
8. 340005	Crystal, 15MHZ	19D	14.70
<b>Mark 2/3 P.I.B. Assembly PT 4 P/N 021503/021003</b>			
1. 021505	Cable Assembly, 3 Cond. 4 PIN	J15-J16 Mk2 only	65.00
2. 121515-02	Cable Assembly, 40 Cond., ribbon	J7 to J17 Mk2 only	10.50
3. 201488	I.C., 1488, Quad line driver	5H,7H	3.00
4. 201489	I.C., 1489, Quad line receiver	6F,6H	3.00
5. 203450	I.C., MC3450 (021003 only)	9F,15F, 17F 8F, 10F	4.30
6. 206850	I.C., 6850, Asynch comm.	4D, 5.5D 6.5D, 8D	4.80
7. 340006	Oscillator, 9.8304 MHZ	3A	14.40
8. 500012	Board header connector	J1	5.60
9. 500039	Connector, 60 pin (021003 only)	J6	9.40
10. 500201	Friction lock, right angle	J2-J5	3.00
11. 500370	Header, Double Row, 26 pin	MK3 only	4.50
12. 723004	Jumper, movable	J10-16(MK3) J8-14(MK2)	1.00
13. 901800	Disk Control, WD1002	Mark 2 only	440.00
<b>Mark 2/3 Power Supply PT 4 P/N 029403/024103</b>			
1. 124160	Inductor, 3.7 uH	L2	3.75

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
2. 124161	Transformer, Flyback	T5	\$ 27.60
3. 163262	Inductor, 5.5 uH, 3A	L4-6	3.75
4. 163266	Transformer, current	T3	12.60
5. 163268	Transformer, drive	T2,4	12.80
6. 163270	Inductor, 32uH	L1	11.10
7. 311648	Rectifier, Bridge, 10A, 600V	CR1	8.00
8. 313030	Rectifier, dual, 30A, 30V	CR8	14.67
9. 323668	SCR, 2N3668	CR6	6.00
10. 350003	Thermistor, 20 OHM	RT1,RT2	3.00
11. 500048	Connector, 15 pin, right angle	P1	16.20
12. 520003	Transformer, AC	T1	17.85
13. 525004	Inductor, 2 uH	L8	11.10
14. 525007	Inductor, 500 uH	L7	14.10
15. 525008	Inductor, 2.4 uH	L3	3.00
<b>Mark 2 Chassis Assembly</b>			
<b>PT 4 P/N 029303-XX, 029353-XX</b>			
1. 028003	Backplane Assembly		160.00
2. 029213-B	Control Panel Assembly		160.00
3. 029337	A/C Panel Assembly		120.00
4. 029356	Bezel Assembly, front		135.00
5. 029357	Bezel Assembly, rear		135.00
6. 129374	Cable Assembly, Data disk drive		14.30
7. 129375	Cable Assembly, control disk drive		18.80
8. 129377	Cable Assembly, Streamer interface		22.90

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
9. 129390	Wrap		\$ 144.00
10. 330001	Light, indicator	029337	3.00
11. 505006	A.C. line cord (3 wire)		4.70
12. 513410	Power module, Condor-SP1120		145.00
13. 519005	Line filter, LF3		27.80
14. 530001	Fan, 110V, 70 CFM		36.80
15. 901202	Tape Streamer, 5 1/4", 20MB (Archive, 5920L-2)		1060.00
16. 901204	Disk Drive, 5 1/4", 46MB (Atasi, 3046)		1250.00
17. 901206	Disk Drive, 5 1/4", 13MB (CMI, 5412)		650.00
18. 901207	Floppy Drive, 5 1/4", 1MB		275.00
19. 901208	Tape Streamer, 5 1/4", 45MB (Archive, 5945L-2)		1105.00
20. 901209	Disk Drive, 5 1/4", 86MB (Fujitsu, M2243)		2260.00
21. 901211	Disk Drive, 5 1/4", 55MB (Fujitsu, M2242)		1800.00
22. 901212	Disk Drive, 5 1/4", 27MB (Fujitsu, M2235)		980.00
<b>Mark 3 Chassis Assembly - Rackmount PT 4 P/N 025003</b>			
1. 025103	Minipanel Assembly		125.00
2. 028003	Backplane Assembly		160.00
3. 062013	Front Panel Assembly		50.00
4. 507012	Switch, momentary, push	025103	8.40

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
5. 530004	Fan, 115V, 115CFM		\$ 39.30
<b>Mark 3 Chassis Assembly - Table Top PT 4 P/N 029003</b>			
1. 028003	Backplane Assembly		160.00
2. 029203	Sidepanel Assembly		305.00
3. 029213	Minipanel Assembly		140.00
4. 129100	Wrap		120.00
5. 129110	Bezel, front		84.00
6. 129120	Bezel, rear		84.00
7. 505104	Card guide, nylon		1.00
8. 507012	Switch, momentary, push	029213	8.40
9. 530003	Fan, 115V, 50CFM		40.50
<b>Mark 3 Peripheral Chassis Assembly PT 4 P/N 029503-XX, 029603-XX</b>			
1. 029223	Bracket Assembly, A.C.		120.00
2. 129005	"A" Cable Assembly, 60 Conductor		52.50
3. 129015	"B" Cable Assembly, 26 Conductor		24.00
4. 129025	Streamer Cable Assembly, 50 Conductor		36.00
5. 129100	Wrap		120.00
6. 129510	Bezel, front		71.60
7. 129520	Bezel, rear		71.60
8. 129650	Bracket, disk drive mount, Fujitsu only (2 pcs are required per drive)		7.00
9. 513200	Power Supply Module, Datapower DP-200 (Priam drives only, 029503-XX)		510.00



## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
10. 513300	Power Supply Module, Cherokee QM212 (Fujitsu drives only, 029603-XX)		\$ 455.00
11. 519005	Line filter, LF3		27.80
12. 530003	Fan, 115V, 50CFM		40.50
13. 530005	Fan, mini-boxer, 115V		46.50
14. 901113	Tape Streamer, 8", 20MB		965.00
15. 901117	Disk drive, 8", 84MB, (Fujitsu,2312)		4330.00
16. 901118	Disk drive, 8", 168MB, (Fujitsu,2322)		5385.00
<b>Mark 4 System Components</b>			
1. 053000-01 053019-01	Port Expansion Assembly		1200.00
2. 053001-01 053018-01	Peripheral Interface Assembly		2300.00
3. 053002-02	CPU Memory Assembly 512KB		805.00
4. 053003/ 053027	CPU Assembly		3250.00
5. 053019-03	Port Expansion Assembly, Bisync		1250.00
6. 053026-01	CPU Memory Assembly 1MB		1200.00
7. 053026-02	CPU Memory Assembly 2MB		2200.00
<b>Mark 4 CPU Assembly</b>			
<b>PT 4 P/N 053003/053027</b>			
1. PMLCR04	Microcode Proms (set of 10 proms, 212725 except 14D is 212725A). Price per each is \$38.00.	8D-17D	380.00
2. PVECTR4	Vector and Exception Proms (set of 2 Proms, 212729). Price per each is \$19.00	19D,17B	38.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
3. PMANIP4	Manip and Self Test Proms (set of 2 Proms, 212764). Price per each is \$17.50.	4F,6F	\$ 35.00
4. 202903	I.C., 2903A	2D,4D,5D,7D	52.50
5. 202949	I.C., 2949	7A,8A	9.30
6. 340010	Crystal, 25MHZ, OSC	Y1	21.45
7. 500076	Connector, 50 pin, 400 leads, header	J2,J3	4.60
<b>Mark 4 CPU Memory Assembly</b>			
<b>PT 4 P/N 053002-02/053026-01/-02</b>			
1. 203422	I.C., 93422	8F,10F	13.50
2. 204164-12	I.C., 4164, 64X1, DRAM (12ONS) (053002-02 only)	1A-16A, 1B-16B 1C-16C, 1D-16D	3.75
3. 211256	I.C., 1256, 256X1 DRAM (053026-XX only)	1A-16A, 1B-16B 1C-16C, 1D-16D	9.00
4. 500126	Connector, 50 position, vertical mount	P2,P3	6.40
<b>Mark 4 Peripheral Interface Assembly</b>			
<b>PT 4 P/N 053001-XX/053018-XX</b>			
1. 021505	Cable Assembly, 3 cond, 4 pin		65.00
2. 121515-02	Cable Assembly, 40 conductor		10.50
3. 201488	I.C., 1488	6E,10E,13E,17E	3.00
4. 201489	I.C., 1489	7E,9E,11E,12E 14E,16E	3.00
5. 206850	I.C., 68B50	7D-10D,12D-15D	4.80
6. 340000	Crystal, 4.9152 MHZ	Y1	9.75
7. 500065	Connector, 4 pin, right angle	J3	3.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
8. 500076	Connector, 50 pin, straight, double row	J4	\$ 4.60
9. 500340	Connector, 40 pin header, double row	J2	5.30
10. 500349	Connector, 50 pin, right angle header	J5	8.25
11. 500371	Connector, 50 pin male header	J1	8.20
12. 500603	Connector, 16 pin header		3.00
13. 901800	Disc Control, WD10002-05 (ECO'D per 089000 dwg for MK 4 operation)		440.00
<b>Mark 4 Port Expansion Assembly PT 4 P/N 053000-XX</b>			
1. 201488	I.C., 1488	5B,9B, 12B,16B	3.00
2. 201489	I.C., 1489	6B,8B,10B, 11B,13B,15B	3.00
3. 206850	I.C., 68B50	6A,7A,9A,10A 11A,13A,14A,16A	4.80
4. 500126	Connector, 50 position, female	P4	6.40
5. 500349	Connector, 50 pin right angle	J14	8.25
6. 500603	Connector, 16 pin header		3.00
<b>Mark 4 Port Expansion Assembly PT 4 P/N 053019-XX (-03/-04 have Bisync capability)</b>			
1. 201488	I.C., 1488	7B,11B,14B,18B (2A Bisync only)	3.00
2. 201489	I.C., 1489	8B,10B,12B,13B, 15B,17B, (3A,4A Bisync only)	3.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
3. 202661	I.C., 2661-2	7A(Bisync only)	\$37.80
4. 206850	I.C., 68B50	9A,10A,12A,13A, 14A,16A,17A,18A	4.80
5. 500126	Connector, 50 position female	P4	6.40
6. 500171	Connector, 26 pin, straight male header	J15(Bisync only)	4.20
7. 500349	Connector, 50 pin right angle	J16	8.25
8. 500603	Connector, 16 pin header		3.00
<b>MARK 4 CHASSIS ASSEMBLY</b>			
<b>PT 4 P/N 081001-XX</b>			
1. 053004	8 Port I/O Assembly		200.00
2. 053005-01	Backplane Assembly		190.00
3. 053007	Display Panel Assembly		105.00
4. 053011	Power Switch Assembly	082002	115.00
5. 082000	Reset Switch Assembly		60.00
6. 082001	Keyswitch Assembly		85.00
7. 082002	Power Supply Assembly		1050.00
8. 088000-36	Cable Assembly, 50 cond.	053004	60.00
9. 088001	Cable Assembly, D.C. Power		105.00
10. 088002	Cable Assembly, Peripheral D.C.		105.00
11. 088004	Cable Assembly, A/C Control		50.00
12. 088008	Cable Assembly, Disk Data		55.00
13. 088010	Cable Assembly, Disk Drive Control (single drive)		60.00
14. 088011	Cable Assembly, Tape Drive Control		65.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
15. 088014	Cable Assembly, Disk Drive Control (multi-drive)		\$ 80.00
16. 088015	Cable Assembly, Fan Power		35.00
17. 088016	Cable Assembly, Backplane to display control		55.00
18. 088023	Cable Assembly, Disk Drive/L.E.D.		50.00
19. 088050	Cable Assembly, Bisync		85.00
20. 088064	Cable Assembly, Aux. power supply		105.00
21. 142002	Front Bezel		200.00
22. 142011	Overlay, front Bezel		13.20
23. 142012-01	Panel, side-left		109.20
24. 142012-02	Panel, side-right		109.20
25. 142013	Top cover		57.80
26. 163272	Transformer, 24VCT, 115/220V 50/60 HZ Price per each is \$37.50.	053011	13.80
27. 505018	Keyswitch, 3 position	082001	20.90
28. 505021	Power cord 115 VAC		18.80
29. 507018	Switch, line selector, DPDT,	053011	5.60
30. 513410	Power Supply, Condor, SP1120		145.00
31. 513530	Power Supply, 200W, 5 output Power-one, SPL200	082002	442.00
32. 519014	Relay, PCB, 12VDC, DPST	053011	8.80
33. 530009	Fan, 12VDC, 50CFM		46.90
34. 901207	Floppy Drive, 5 1/4", 1MB		275.00
35. 901208	Tape Streamer, 5 1/4", 45MB (Archive, 5945L-2)		1105.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
36. 901209	Disk Drive, 5 1/4", 86MB (Fujitsu, M2243)		\$ 2260.00
<b>Mark 5 Central Processing Unit PT 4 P/N 060013/060003</b>			
1. PM1CR05	Microcode Proms (set of 5 proms, 212727 except 10B is 212726). Price per each is 44.00.	6B, 7B, 8B, 9B, 10B	220.00
2. PSELFT5	Selftest Proms (set of 2 proms, 212729). Price per each is \$19.00.	13C, 16C	38.00
3. PMANIP5P	Manip Proms - Paper Tape interface (set of 2 proms, 212729). Price per each is \$19.00.	14C, 15C	38.00
4. PMANIP5C	Manip Proms - CTU interface (set of 2 proms, 212729). Price per each is \$19.00.	14C, 15C	38.00
5. 069903	Micro Program Sequencer	12B	1250.00
6. 161260	Switch cap, TST		3.00
7. 204116	I.C., 16Kx1 D-RAM	1J-8aJ, 1K-8aK 1L-8aL, 1M-8aM	3.00
8. 208304	I.C., 8304	14B, 15B, 10M, 11M	4.50
9. 218212	I.C., 82S12	13D-16D	42.80
10. 340002	Oscillator, 30MHZ	6D	19.30
11. 50608P	Dipswitch, 8 position, piano	SW1, SW2	5.60
12. 507007	Switch, push button	SW6	8.70
<b>Mark 5 Central Processing Unit PT 4 P/N 061013-XX, 061003</b>			
1. PMICRO5A	Microcode Proms (set of 6 proms, 212725).	6C, 8C-12C	225.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
2. PSELFT5A	Self test proms (set of 2 proms, 212729). Price per each is \$19.00.	20J,22J	\$ 38.00
3. PMANIP5A	Manip proms (set of 2 proms, 212729). Price per each is \$19.00.	19J,21J	38.00
4. PMICR05E	Microcode proms, Mark 5 with extended instr. set (set of 9 proms, 212725 except 13B is 212729). Price per each is \$35.00.	6C,7C,8C,9C 10C,11C,12C 13C, 13B	315.00
5. 069803-01	Micro Program Sequencer		1250.00
6. 069803-04	Micro Program Sequencer with Extended Instruction Set		1250.00
7. 161260	Switch cap, TST		3.00
8. 161261	Switch cap, CONT		3.00
9. 161262	Switch cap, APL		3.00
10. 161263	Switch cap, STOP		3.00
11. 204116	I.C., 16Kx1 D-RAM		3.00
12. 208304	I.C., 8304	19A,20A, 21K,21L	4.50
13. 209705	I.C., 9705	18C,18D 19C,19D	18.80
14. 340002	Oscillator, 30MHZ	3F	19.30
15. 50608P	Dipswitch, 8 position, piano	SW5,SW6	5.60
16. 507007	Switch, push button	SW1	8.70

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
<b>Mark 9 Central Processing Unit PT 4 P/N 0619X3-XX</b>			
1. PMICR09	Microcode Proms (set of 10 proms, 21735A). Price per each is \$44.00	19E-28E	\$ 440.00
2. PSELFT9	Self test proms (set of 2 proms, 212729). Price per each is \$19.00.	5E,7E	38.00
3. PMANIP9	Manip proms (set of 2 proms, 212729). Price per each is \$19.00	6E,8E	38.00
4. PMPSEQ9	Micro Program Sequencer Proms 061923-XX only (set of 2 proms, 21735A). Price per each is \$44.00.	25F, 26F	88.00
5. 069803-03	Micro-Program Sequencer 061903-XX and 061913-XX only		1250.00
6. 161260	Switch cap, TST	SW1	3.00
7. 202600	I.C., INS2600-12 RAM	1G-22G,1H-22H 1I-22I,1J-22J	6.00
8. 202960	I.C., 2960	17F	117.00
9. 203422	I.C., 3422	24G-26G	13.50
10. 208304	I.C., 8304	27A,29A,1E,11E	4.50
11. 209705	I.C., 9705	3A,6A,8A,11A	18.80
12. 21735A	Vector Prom	18E	33.90
13. 272379	I.C., LS379	061903-XX, 061913-XX, only	3.00
14. 340008	Crystal, 40MHZ, K115A	18A	14.20
15. 50608P	Dipswitch, 8 position, piano	SW5,SW6	5.60
16. 507007	Switch, push button	SW1	8.70



## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
<b>MARK 5/9 POWER SUPPLY PT4 P/N 063003/063023</b>			
1. 063103	B.B.U. Regulator Assembly (Specify whether for MK5 or MK9)		\$ 780.00
2. 063203	Main Power Regulator Assembly		950.00
3. 063303	Indicator Assembly		135.00
4. 163205	Cable, BBU to power supply Mark 5 only		23.60
5. 163245	Cable, BBU to power supply Mark 9 only		76.80
6. 163267	Transformer, power	T101	60.90
7. 163271	Filter, 125/250V, line	FL1	40.50
8. 163800	Battery clamp		4.50
9. 440004	Capacitor, 2500UF, 200V	C101,C102	21.50
10. 519003	Battery, 12V, 1.9AH	BT1	42.80
11. 530001	Fan, 70CFM, 115V	B1	36.80
12. 663001	Mark 5/9 Power Supply Cover		28.50
<b>PT 4 P/N 63103</b>			
1. 163262	Inductor, 5.5uh, 3AMP	L1,L2,L3	3.80
2. 163265	Transformer, current drive	T1	12.60
3. 163280	Transformer, flyback inverter	T2	33.80
<b>PT 4 P/N 063203</b>			
1. 163260	Inductor, .25uH, 40A	L4	6.60
2. 163261	Inductor, 19uH, 40AMPS	L8	14.90
3. 163262	Inductor, 5.5uH, 3.0A	L1,L2,L3	3.80

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
4. 163264	Transformer, inverter	T4	\$ 35.20
5. 163266	Transformer, current	T2	12.60
6. 163268	Transformer, Drive	T1, T3	12.80
7. 525001	Inductor, 1.0uH, 1.5A	L5	18.80
8. 525002	Inductor, 500uH, 2.75A	L6, L7	18.80
9. 314937	Rectifier, 1A, 600V	CR13, CR20-CR22	.40
10. 402221	Capacitor, ceramic, 220pf, 200V	C9, C10, C35	.40
11. 406472	Capacitor, polycarb., .0047ufd, 630V	C34	1.00
<b>Mark 5 Power Supply (Obsolete)</b>			
<b>PT 4 P/N 064003</b>			
1. 064103	BO1 Board Assembly		495.00
2. 064303	L.E.D. Board Assembly		56.50
3. 164010	Filter, EMI		72.00
4. 505008	Solid State relay	SSR1	41.00
5. 505103	Head lock, fastener, adhesive backed		.40
6. 510501	Power supply, -5V, 1.2A	PM5	49.00
7. 511503	Power supply, 15V, 3A	PM15	169.00
8. 515E50	Power supply, +5V, switches	PM5S	404.00
9. 519002	Battery	BT-3	34.50
10. 520002	Transformer	T101	40.00
11. 530003	Fan, 115V, 50CFM	B1	40.50

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
<b>Mark 5/9 Chassis</b>			
<b>PT4 P/N 065003/065013-XX</b>			
1. 062013	Front Panel Assembly		\$ 50.00
2. 065103	Minipanel Assembly		330.00
3. 068503	Jumper Saver Assembly		85.00
4. 165090	Retainer Spring		11.70
5. 168205	Cable Assembly, Chassis to power supply, MK 5		135.00
6. 168215	Cable Assembly, Chassis to power supply, MK9		112.00
7. 168403	Backplane Assembly		576.00
8. 505004	Keyswitch and key		14.70
9. 507001	Switch, push button, "APL"		4.30
10. 507002	Switch, push button, "CONT"		4.30
11. 507003	Switch, push button, "STOP"		4.30
12. 530007	Fan, 100 CFM, 115V		35.40
<b>MARK 12 CPU ASSEMBLY</b>			
<b>PT4 P/N 053008</b>			
1. 212167	I.C., 16K Static RAM	1B-8B,1C-8C, 1D-8D,1E-8E, 1F-8F,1G-8G 1H-8H,1J-8J	14.88
2. 212764	I.C., 2764 E PROM, ID Codes 9100X-17B, 9100X-17E	17B,17E	17.35
3. 21719A	I.C., 27S19A, Prom, ID Codes 9100X-26K through 29K	26K,27K,28K, 29K	15.25
4. 217291	I.C., 27S291A, Prom, ID Codes 9100X-25F thru 28F, 24J thru 29J	27F-28F, 24J-29J	42.10

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
5. 2316L8	I.C., PAL, 16L8B, I.D. Codes 92001-27A, 92002-15B, 92003-24C 92004-25C, 92005-15E, 92006-23F 92007-18H, 92008-25K	27A, 15B, 24C 25C, 15E, 23F 18H, 25K	\$ 21.00
6. 2316R8	I.C., PAL, 16R8B, I.D. Code 92009-19A	19A	20.80
7. 273181	I.C. 74F181 Slim line package	13B,14B,13E, 14E,14F,15F, 14J,15J	10.50
<b>MARK 12 MEMORY ASSEMBLY PT4 P/N 053009-XX</b>			
1. 211256	I.C., 1256, 256KX1 DRAM		9.00
2. 212721	I.C., 27S21 PROM ID Code 91001-24D	24D	15.10
3. 22729A	I.C., 27S29A, PROM, I.D. Codes 91002-31B thru 31F	31B,31C,31D 31E,31F	26.70
4. 275632	I.C., 74ALS632, EDAC	23D,23H	215.00
5. 340012	Oscillator/crystal, 12.5MHZ	Y1	18.75
6. 506040	Dip switch, 4 position		3.60
<b>MARK 12 CHASSIS ASSEMBLY PT4 P/N 082013-XX</b>			
1. 053012	Jumper Saver Assembly		88.00
2. 065105-01	Ribbon cable assembly		125.00
3. 082015-01	Side panel assembly 110V		355.00
4. 082020	Bezel assembly for chassis & power supply		190.00
5. 082021	Minipanel assembly		185.00
6. 088026	Cable assembly, main power supply, D.C.		135.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
7. 088033	Cable assembly, power control		\$ 55.00
8. 153013	Backplane assembly		1290.00
9. 505027	Keyswitch, 6A, 125V, 4 position	S1 on 082021	18.40
10. 505028	Extra Key for MK12 keyswitch		2.00
11. 530012	Fan, 104CFM, AC, 115V		120.00
<b>MARK 12 POWER SUPPLY ASSEMBLY</b>			
<b>PT4 P/N 082012-XX</b>			
1. 053014	RS232 Assembly		210.00
2. 053015	Power Monitor Assembly		310.00
3. 082014	Main Power Supply Assembly		1605.00
4. 082018	A.C. Distribution Tray Assembly		390.00
5. 088028	Cable Assembly, 12V regulator		145.00
6. 088029	Cable Assembly, 5V P.S.		205.00
7. 088030	Cable Assembly, Auxilary voltage		145.00
8. 088031	Cable Assembly, A.C. Main Power Supply		95.00
9. 088032	Cable Assembly, Control		65.00
10. 088040	Cable Assembly, A.C. Distribution		65.00
11. 088044	Cable Assembly, P.C.B. Power		130.00
12. 088045	Cable Assembly, BBU jumper plug		145.00
13. 088052	Cable Assembly, mux power		125.00
14. 142041	Assembly cover, top		37.70
15. 513550	Power Supply, C.E.C.	082014	730.00
16. 519015	Power Relay, 12VDC, 10AMP	082018-K1	7.80
17. 519016	RFI filter	082018-FL1	14.40

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
18. 520006	Transformer, 115/230V	082018-T1	\$ 16.50
19. 530011	Fan, 34CFM, D.C.	082014	37.60

**MIGHTY MUX DMA MULTIPLEXER  
PT4 P/N 031003**

1. 031006	Parts required for addition of on board power (30A78M-1, 30A79M-1, 401503-8, 503001-2)		15.00
2. 201488	I.C., 1488	1N,3N,5N,7N	3.00
3. 201489	I.C., 1489	2N,4N,6N,8N	3.00
4. 201502	I.C., 1502, F.I.F.O.	14B/C	33.10
5. 201602	I.C., 1602, UART	1L-8L	10.35
6. 208T38	I.C., 8T38	3A,11E-14E	3.50
7. 209324	I.C., 9324	12C,11M-14M	3.00
8. 209334	I.C., 9334	1H,1J-4J	3.45
9. 209602	I.C., 9602	7A,3F	2.00
10. 290310	I.C., 3601-310E, PROM special character set	9H	5.25
11. 340004	Crystal, 6.75840 MHZ	10N	4.05
12. 500012	Connector, header, 50 pin		5.55
13. 507004	Switch, Rotary, 10 position	SW1	6.60

**EXPANSION MULTIPLEXERS  
PT4 P/N 030123, 030113, 030103**

1. 201488	I.C., 1488	1L-4L	3.00
2. 201489	I.C., 1489	1M-4M	3.00
3. 201602	I.C., 1602-UART Locations depend on # of ports.		10.35

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
4. 209312	I.C., 9312	1E-4E,1F-4F	\$ 3.00
5. 209334	I.C., 9334	1D-4D,5L	3.45
6. 506040	Switch, 4 pos dip	5C	3.60
<b>CONNECTOR CABLE ASSEMBLY (8 PORTS)</b>			
<b>PT4 P/N 032203</b>			
1. 500025	Connector, 25 pin, DBE		5.10
2. 540004	Ribbon cable assembly, 6'		21.55
3. 724021	Screwlock, female		1.00
<b>MUX POWER SUPPLIES</b>			
<b>PT4 P/N 0340XX, 0342XX</b>			
1. 032005	Power distribution cable assembly 2 connectors		95.00
2. 511201	Power supply, 15V 1.5A 64 port		102.50
3. 511503	Power supply, 15V 3A 128 ports		169.15
4. 5115F8	Power Supply, 15V, 0.8A 32 ports + current loop		70.20
5. 512802	Power supply, 28V, 2A 32 port current loop only		86.45
6. 519001	Overvoltage protector	OVP1	19.10
<b>LOTUS 710 SMD/CMD/LMD DISK CONTROLLER</b>			
<b>PT4 P/N 071003</b>			
1. 170005	Cable Assembly, "A", 6'		72.70
2. 170015	Cable Assembly, "B", 6'		43.95
3. 340005	Oscillator, 15MHZ	1B	14.70

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
4. 500039	Connector, 60 pin		\$ 9.40
5. 500040	Connector, 26 pin		4.35
6. 506010	Dip switch, toggle, 4-pin	SW1	5.30
7. 271287	Prom, I.D code 19C	19C	13.75
8. 271287	Prom, Head select Please provide drive type or code per HICS .4	22C	13.75
9. 271287	Prom, I.D. code, L10KRX	10K	13.75
10. 271288	Prom, I.D. codes, L12CRX, L13CRX, L2FRX, L3FRX, L12FRX, L1GRX, L12GRX, L8HRX, L14HRX	12C,13C,2F,3F, 12F,1G,12G,8H 14H	13.00
12. 271471	Prom, I.D. codes, L2ERX, L8ERX, L9ERX, L10ERX	2E,8E,9E,10E	20.95
13. 272366	I.C., 74LS366	7C	2.00
14. 272670	I.C., 74LS670	11H,12H,15H 17H,19H	3.00
15. 271225	I.C., 74S225	15E,17E,21E,23E	9.00
<b>LOTUS 700 DISK CONTROLLER (OBSOLETE)</b>			
<b>PT4 P/N 070003</b>			
1. 271287	Prom, I.D. code 10K	10K	13.75
2. 271287	Prom, I.D. code 19C	19C	13.75
3. 271287	Prom, Head Select (Please provide drive type or code per HICS.4)	22C	13.75
4. 271288	I.C., Prom, I.D. codes 12C, 13C, 2F, 3F, 12F, 1G, 12G, 8H, 14H	12C,13C,2F,3F 12F,1G,12G,8H 14H	13.00
5. 271471	I.C., Prom, I.D. codes 2E, 8E, 9E, 10E	2E,8E,9E,10E	20.95



## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
<b>LOTUS 720 STREAMER CONTROLLER PT4 P/N 072003</b>			
1. 126015	Cable assembly, streamer, 6'		\$ 27.50
2. 271287	Prom, I.D. code 212811	16C	13.75
3. 271471	Prom, I.D. code 27822CA	22C	20.95
4. 271471	Prom, I.D. code 27923CA	23C	20.95
5. 272366	I.C., 74LS366	7B	2.00
<b>LOTUS 730 MULTIFUNCTION CONTROLLER PT4 P/N 073003</b>			
1. 126015	Cable Assembly, Streamer, 6'		27.50
2. 170005	Cable Assembly, "A", 6'		72.70
3. 170015	Cable Assembly, "B", 6'		43.95
4. 203450	I.C., MC3450	8M,23M,25M	4.25
5. 203453	I.C., MC3453	24L,18M-21M	3.00
6. 210131	Prom, I.D. code 2D	2D	16.00
7. 210137	Prom, I.D. code 332-20G	20G	16.00
8. 271225	I.C., 74S225	21F,22F,25F,26F	9.00
9. 271287	Prom, I.D. code 20D, 18H	20D, 18H	13.75
10. 271288	Prom, I.D. codes 12D, 2F, 3F 10F, 11F, 1G, 6H, 19H	12D,2F,3F,10F 11F,1G,6H,19H	13.00
11. 271471	I.C., Prom, I.D. codes 24D, 25D, 7E, 8E, 9E, 8L	24D,25D,7E,8E, 9E,8L	20.95
12. 272366	I.C., 74LS366	1C,3C,17D	2.00
13. 272670	I.C., 74LS670	14H,15H,20K-22K, 12M	3.00
14. 340009	Oscillator, 12MHZ	2C	10.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
15. 500012	Connector, 50 pin	J4	\$ 5.55
16. 500039	Connector, 60 pin	J5	9.40
17. 500040	Connector, 26 pin	J2, J3	4.35
18. 500041	Connector, 26 pin	J1, J6	3.90
19. 50606R	Dip switch, 6 position	10L,12L,14L,17L	4.20
20. 506010	Dip switch, 2 position	SW1	5.30

**LOTUS CACHE MEMORY - 1MB  
PT4 P/N 080003-XX**

1. 204164	RAM, 64K dynamic 080003-02 & 03		3.30
2. 208116	RAM, 16K dynamic 080003-00 & 01		8.70
3. 208304	I.C., AM 8304	18A,23A	4.50
4. 209324	I.C., 9324	5A,22D,24D	3.00
5. 212725	I.C., 27S25, Prom, I.D. codes 6A-X, 7A-X, 8A-X, 9A-X	6A,7A,8A,9A	38.00
6. 290000	I.C., Prom, I.D. codes, 3C-X 4C-X	3C,4C	19.00
7. 340006	Oscillator, 9.8304MHZ	12B	14.40
8. 50608P	Dip switch, 16 pin	24C	5.55

**LOTUS CACHE MEMORY 2MB/4MB  
PT4 P/N 053016-01/02**

1. 211256	I.C., 1256, 256X1 DRAM, 120N		9.00
2. 212721	I.C., 27S21, Prom, I.D. code 91001-24D	24D	15.10
3. 22729A	I.C., 27S29A, Prom I.D. codes 91003-31B thru 31F	31B,31C,31D 31E,31F	26.70

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
4. 275632	I.C., 74ALS632, EDAC	23D,23H	\$ 215.00
5. 340012	Osc/crystal, 12.5MHZ	Y1	18.75
6. 506040	Dip switch, 4 position		3.60

**OPERATOR CONTROL UNIT ASSEMBLY  
PT4 P/N 067003**

1. 062003	Slotted front panel assembly for Mk5/9 Chassis		75.00
2. 067103	Display board assembly		315.00
3. 067203	Interface logic board assembly		515.00
4. 167315	Cable assembly, 50 pin, 1ft		35.10
5. 167500	Switch panel assembly		151.70
6. 203640	I.C., 7 segment LED display	067103-U3-U8 U11-U16	5.65
7. 208857	I.C., DS8857	067103-U17	5.05
8. 208863	I.C., DS8863	067103-U2,U10	8.10
9. 212727	I.C., Prom, I.D. codes U1-X, U2-X U3-X, U4-X	067203 U2-U4 U1	38.90
10. 902101	Carrying case for Operator Control Unit		24.00

**RACK-MOUNTED DISK/STREAMER SUBSYSTEMS  
PT4 P/N'S 026603-XX, 026703-XX, 026803-XX,  
026903-XX, 082022-XX**

1. 026413	Rear panel and fan assembly		295.00
2. 026713	Front Bezel assembly, 8" tape drive		210.00
3. 029505-01	Wire harness assembly, Priam drive (026603-XX, 026703-XX)		150.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
4. 029605-01	Wire harness assembly, Fujitsu w/Cherokee (026803-XX, 026903-XX)	QM212	\$ 140.00
5. 088050	Wire harness assembly, Fujitsu w/Cherokee (082022-XX)	QX6F1	100.00
6. 126015	Cable assembly, streamer, 50 cond., 6'		27.50
7. 126711	Front bezel assembly, 5 1/4" tape drive		108.00
8. 126730	Cover, RPS		41.00
9. 126750	Adaptor, bar slide		10.50
10. 126770-01	Bracket, right, 5 1/4" tape drives only		13.80
11. 126770-02	Bracket, left, 5 1/4" tape drives only		13.80
12. 129650	Bracket, Fujitsu drive mount 2 pieces required per drive		7.00
13. 142071	Front bezel assembly, no tape drive, slotted		152.00
14. 170005-01	Cable Assembly, "A" cable, 50 cond., 5'		65.25
15. 170015-01	Cable Assembly, "B" cable, 26 cond., 5'		35.90
16. 170025-00	Cable assembly, "A" cable dual drive		102.00
17. 505006	A.C. line cord, 3 wire		4.65
18. 513200	Power supply, Datapower, DP200 used in 026603-XX and 026703-XX only		510.00
19. 513300	Power supply, Cherokee, QM212 used in 026803-XX and 026903-XX only		455.00
20. 513560	Power supply, Cherokee, QX6F1 used in 082022-XX only		540.00
21. 519010	Slides rail (please specify side if only ordering one)		60.00
22. 530004	Fan, 115 CFM 110V		39.30

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
23. 901113	Tape streamer, 8", 20MB used in 026803-XX and 026703-XX		\$ 965.00
24. 901203-01	Tape streamer, 5 1/4", 45MB, 24V (Cipher, 540) used in 026603-XX and 026903-XX		1105.00
25. 901208	Tape streamer, 5 1/4", 45MB (Archive, 5945L-2) used in 082022-XX		1105.00
26. 901117	Disk drive, 8", 84MB (Fujitsu, 2312)		4330.00
27. 901118	Disk drive, 8", 168MB (Fujitsu, 2322)		5385.00
28. 901121	Disk drive, 8", 337MB (Fujitsu, 2333)		
<b>POINT 4 LO-BOY AND HI-BOY ASSEMBLIES</b>			
1. 026723-00	Lo-boy assembly for Mark 3		3185.00
2. 026723-02	Hi-boy assembly for Mark 3		4255.00
3. 026733-00	Lo-boy assembly for Mark 5/9		3435.00
4. 026733-02	Hi-boy assembly for Mark 5/9		4755.00
<b>POINT 4 LO-BOY AND HI-BOY COMPONENTS</b>			
1. 903110	Cabinet, Lo-boy with stabilizer		893.00
2. 903111	Cabinet, Hi-boy with stabilizer		1420.00
3. 903110-00	Filler panel, 7"		126.00
4. 903110-01	Filler panel, 5 1/4"		93.00
5. 903110-03	Filler panel, 5 1/4" vented		132.00
6. 903111-00	Filler panel, 1 3/4"		78.00
7. 126721-00	"U" channel, 9.38" long (Mark 3)		29.00
8. 126721-01	"U" channel, 14.63" long (Mark 5/9)		19.60
9. 505016	A/C, multi-outlet strip w/filter		305.00

## SPARE PARTS

PART NUMBER	DESCRIPTION/COMMENTS	LOCATION	PRICE
10. 721018	Allen wrench		\$ .40
11. 900001	Touch-up paint kit - champagne/brown		15.00
<b>MISCELLANEOUS</b>			
1. 902102	Carrying case for Cassette Tape Unit		95.00
2. 977001	Universal head-cleaning kit for 1/4-inch tape cartridge drives. This kit contains one cleaning cassette, ten replacement pads, one 1-oz bottle of cleaning solution, one lever arm extender and side turn key.		36.00
3. 977002	Universal head-cleaning refill kit. This kit contains additional solution and pads.		19.00
4. 977013	Tri-tail switch console assembly.		125.00





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