




MEGAFILE 30 MEGAFILE 60

SERVICE MANUAL


ASSY NO.	DESCRIPTION
CA200001 - 001	120V FOR ST (ASP34-1)(ASPF34-1)
- 002	220V FOR ST (ASP34-2)(ASPF34-2)
- 003	120V FOR SH204 (ASP34-3)
- 004	220V FOR SH204 (ASP34-4)
- 005	120V FOR SH205 (ASPF34-3)
CA200001 - 006	220V FOR SH205 (ASPF34-4)


REV.	REVISIONS DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	7/2/87	[Signature]
B	REVISED PER ECO NO. 00447	7/23/87	[Signature]

DESIGNED BY ASP39 - X ASPF39 - X NEXT ASSY CA200000-XXX /CA200003-XXX MATERIAL	DRAWN BY H. Kawamura 8-11-80 CHECKED DATE K. K. Tagawa 9-9-80 ENGINEER DATE A. Shinagawa 1-2-87 APPROVED DATE H. Otake 1/21/87 APPROVED DATE H. K. S. 3/1/87	 ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105	TITLE PCB ASSY SIZE DRAWING NO B CA200001-XXX SCALE SHEET 1 OF 7	REV B
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NOTES-UNLESS OTHERWISE SPECIFIED :

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A/N: CA200001-XXX		REV. E	TITLE: PCB ASSY		MODEL: ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4		A/N: CA200001-XXX SHEET 4 OF 7
REV	REVISION DESCRIPTION	DATE	APPROVED	 ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105			
SEE SHEET 1.				VERSION	STANDARD	MARKET	
ITEM NO	PART NUMBER	DESCRIPTION			QTY REQUIRED PER VERSION 001-002-003-004-005-006		NOTE
97							
98							
99	C070810	PHOTO COUPLER; PC817 (SHARP)			1 - 1 - 1 -		
100		PC1					
01	C070844	PHOTO COUPLER; CNY65			- 1 - 1 - 1		
102		PC1					
103							
104							
105	C070801	INDUCTOR; 1A, OUTPUT FILTER			1 1 1 1 1 1		
106		L2					
107	C070802	INDUCTOR; 3A, OUTPUT FILTER			1 1 1 1 1 1		
108		L1					
109							
110	C070803	LINE FILTER;			1 1 1 1 1 1		
111		T1					
112							
113							
114							
115	C070805	TRANSISTOR; 2SC1384			1 1 1 1 1 1		
116		Q1					
117	C070806	TRANSISTOR; BU508			1 1 1 1 1 1		
118		Q2					
119							
120							
121	C070807-001	THERMISTOR NTC; 50-11			1 1 1 1 1 1		
122		R1					
123	C070807-002	THERMISTOR NTC; NTH11D5R0LA			ALT ALT ALT ALT ALT ALT		
124		(ALTERNATE FOR ITEM #121)					
125	C070807-003	THERMISTOR NTC;			ALT ALT ALT ALT ALT ALT		
126		(ALTERNATE FOR ITEM #121)					
127							
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129							
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134							
135							
136							
137	C070811	RECTIFIER BRIDGE; G1, W08M			1 1 1 1 1 1		
138		DB1					
139							
140							
141	C070813	SHR; TL431 (TI)			1 1 1 1 1 1		
142		Q3					
143							
144							

A/N: CA200001-XXX		REV. 3	TITLE PCB ASSY		MODEL ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4		A/N: CA200001-XXX SHEET 6 OF 7
REV	REVISION DESCRIPTION		DATE	APPROVED	 ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105		
SEE SHEET 1.							
				VERSION	STANDARD	MARKET	
ITEM NO.	PART NUMBER	DESCRIPTION			QTY. REQUIRED PER VERSION 001-002-003-004-005-006		NOTE
193							
194							
195	C070812-004	FUSE, 5MF, 2A, 250V, 5x20mm			1 1 1 1 1 1		
196		F1					
197							
198							
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202	C070820	TR, CLAMP			1 1 1 1 1 1		
203							
204							
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208							
209	C070821	TR, INSULATOR			1 - 1 - 1 -		
210	C070846	TR, INSULATOR			- 1 - 1 - 1		
211							
212							
213							
214							
215	C070837	CAUTION LABEL (RED)			1 1 1 1 1 1		
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APPENDIX C MEGAFILE SPECIFICATIONS

Because Atari MEGAFILE hard disk drives may use parts from different manufacturers, individual drive specifications may vary. The list below is a summary of the standard MEGAFILE specifications.

	MEGAFILE 30	MEGAFILE 60
Formatted Storage Capacity	32,747,520 bytes	64,616,448 bytes
Disk Platters	2	3
Surfaces	4	6
Recording Heads	4	6
Cylinders	615	809
Number of Tracks	2460	4854
Track Density tracks per inch	588	753
Data Format	RLL	RLL
Data Transfer Speed megabits per second	7.5	7.5
Rotational Speed	3600 rpm \pm 1.0%	3600 rpm \pm 0.5%
Latency Time	8.33 ms	8.33 ms
Seek Time (average)	65 ms	61 ms
Power Supply	120V, 60 Hz (USA) 240V, 50 Hz (UK)	
Power Consumption	14.8 Watts	18.1 Watts

ST412 INTERFACE DRIVES USING RUN LENGTH LIMITED (2,7) ENCODING AT 7.5 MEGABITS/SEC.

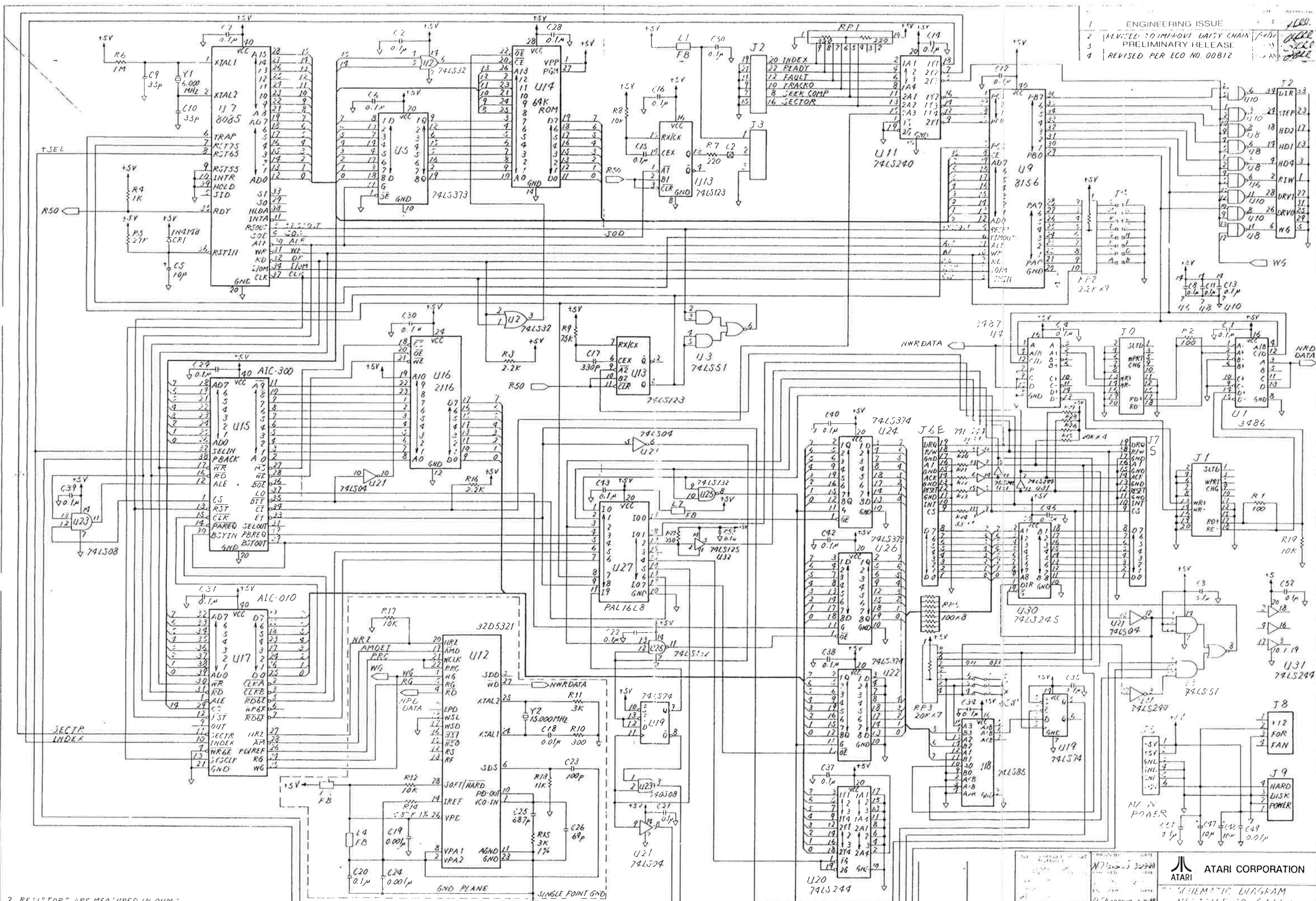
Product Information	ST138R	ST157R	ST238R	ST251R	ST277R	ST4144R
Formatted Capacity (Megabytes):	32	49	31	43	65	122
Read/Write Heads:	4	6	4	4	6	9
Data Cylinders:	615	615	615	820	820	1,024
Step Pulse Range (μ sec.):	3-200	3-200	5-200	3-200	3-200	3-70
Access Time (msec.):	28	28	65	40	40	28
Write Precompensation (cyl.):	N/A	N/A	N/A	N/A	N/A	N/A
Reduced Write Current (cyl.):	N/A	N/A	N/A	N/A	N/A	N/A
Power (Watts):	10	10	14.8	11	11	25.5

SCSI INTERFACE DRIVES

Product Information	ST138N	ST157N	ST225N	ST251N	ST277N
Formatted Capacity (Megabytes):	32	48	21	43	64
Sectors per Drive:	63,139	95,015	41,720	84,254	126,790
Access Time (msec.):	28	28	65	40	40
Power (Watts with termination):	12	12	16.8	13	13

Segate ST 238 R in der Megafile 30

1 ENGINEERING ISSUE
 2 REVISED TO IMPROVE DAISY CHAIN
 3 PRELIMINARY RELEASE
 4 REVISED PER ECO NO 00812



2. RESISTORS ARE MEASURED IN OHMS
 1. CAPACITORS ARE MEASURED IN FARADS.
 NOTES—UNLESS OTHERWISE SPECIFIED