

adaptec, inc.

February 3, 1987 CS

WINCHESTER DRIVE PARAMETERS FOR USE WITH THE FOLLOWING ADAPTEC CONTROLLERS
ACB 2010A, ACB2070, ACB2071, ACB2072, ACB4000A, ACB4070

Please contact your preferred drive manufacturer for more drive information and for exact revision of drive. Adaptec will not accept returned material of the RLL products if running on drives and revisions not on this list and APPROVED by the drive manufacturer.

MANUFACTURER	MODEL	UNFMT CAP	FMT CAP	2,7 RLL	HDS	CYL	STEP	AVG SEEK	
ALPS	3.5"	DRN010A	12.7	10.0	NR	2	615	85ms	
	3.5"	DRN020A	25.5	20.0	NR	4	615	85ms	
	3.5"	DRM010A	12.5	10.0	NR	2	615	80ms	
	3.5"	DRM020A	25.5	20.0	NR	4	615	80ms	
ATASI		3020	20.2	16.8	NR	3	645	2.5-500us	
		3033	33.6	28.1	NR	5	645	2.5-500us	
		3046	47.0	39.3	NR	7	645	2.5-500us	
		3051	51.0	42.9	NR	7	704	2.5-500us	
		3075	85.0	67.1	NR	8	1024	2.5-500us	
		3085	85.0	67.1	NR	8	1024	2.5-500us	
BASF		6185	27.5	23.0	NR	6	440	10-200us	
		6186	18.3	15.3	NR	4	440	10-200us	
		6187	9.2	7.7	NR	2	440	10-200us	
BULL		D530	30.0	25.0	*38.0	3	987		
		D550	51.0	42.9	*63.2	5	987		
		D570	70.0	59.0	*88.4	7	987		
		D585	85.0	67.1	*104.5	7	1166		
CDC		9415-5	36.3	30.3	NR	5	697	8-200us	
		9415-5	21.8	18.2	NR	3	697	8-200us	
CMI		3212			NR	2			
		3426	25.5	21.3	NR	4	612		
		5206	6.4	5.3	NR	2	306	5us	
		5412	12.7	10.7	NR	4	306	5us	
		5616	16.0	13.4	NR	6	258		
		5619	19.1	16.0	NR	6	306	5us	
		6213	13.3	11.1	NR	2	640	10.5us	
		6426	26.7	22.3	NR	4	640	10.5us	
		6640	40.0	33.4	NR	6	640	10.5us	
		7660	60.0	50.1	NR	6	960		
	7880	80.0	66.8	NR	8	960			
COGITO		CG906	6.4	5.3	NR	2	306	5-200us	85ms
		CG912	12.7	10.7	NR	4	306	5-200us	85ms
		PT912	12.7	10.7	NR	2	512		85ms
		PT925	25.5	21.3	NR	4	612		85ms

NR - Not Recommended

* - Approximate 2,7 RLL format capacity

MANUFACTURER	MODEL	UNFMT CAP	FMT CAP	2,7 RLL	HDS	CYL	STEP	AVG SEEK
DISCTRON (RMS)	503	3.2	2.7	NR	2	153	6-200us	
	504	4.5	3.7	NR	2	215	6-200us	
	506	6.4	5.3	NR	4	153	6-200us	
	507	6.4	5.3	NR	2	306	6-200us	
	509	9.0	7.5	NR	4	215	6-200us	
	512	12.7	10.7	NR	8	153	6-200us	
	513	13.4	11.2	NR	6	215	6-200us	
	514	12.7	10.7	NR	4	306	6-200us	
	518	17.9	15.0	NR	8	215	6-200us	
	519	19.1	16.0	NR	6	306	6-200us	
	526	25.5	21.3	NR	8	306	6-200us	
	FUJITSU	M220	6.7	5.6	NR	2	306	
3.5" M2223A		12.7	10	NR	4	306		85ms
3.5" M2224A		19.1	15.0	NR	6	306		85ms
M2230AT		6.7	5.6	NR	2	320	.3us-.3ms	
M2233/AT		13.3	10.5	NR	4	320	.3us-.3msw	95ms
M2234		20.0	15.7	NR	6	320	.33us	83ms
M2235		26.7	21.0	NR	8	320	.33us	83ms
M2241AS		31.4	26.3	NR	4	754	.33-200us	
M2242		59.9	43.2	NR	7	754	.33-200us	33ms
M2244		86.3	67.8	NR	11	754	.33-200us	33ms
HITACHI	DK511-3	30.0		NR				
	DK511-5	50.0		NR				
	DK511-8	80.0		NR				
IMI	2306H	6.4	5.3	NR	2	306	3-200us	85ms
	2312H	12.7	10.7	NR	4	306	3-200us	85ms
	5006H	6.4	5.3	NR	2	306		68ms
	5012H	12.7	10.7	NR	4	306		68ms
	5018H	19.1	16.0	NR	6	306		68ms
LAPINE	3.5" TITAN LT300	25.0	NR	*31:5	4	616		65ms
	3.5" TITAN LT200	25.0	20.0	NR	4	616		65ms
MAXTOR	1065	66.9	55.9	NR	7	918	13us	
	XT1085	85.3	67.1	NR	8	1024		28ms
	XT1105	105.2	82.7	NR	11	918	13us	27ms
	XT1140	143.5	112.8	NR	15	918	13us	27ms
	XT2085	89.2	70.2	NR	7	1224		30ms
	XT2140	140.2	110.3	NR	11	1224		30ms
	XT2190	191.2	150.4	NR	15	1224		30ms
MICROPOLIS	1302	25.9	20.4	NR	3	830	2-200us	
	1303	43.2	34.0	NR	5	830	2-200us	
	1304	51.9	40.8	NR	6	830	2-200us	
	1323	42.7	33.6	NR	4	1024		28ms

MANUFACTURER		MODEL	UNFMT CAP	FMT CAP	2,7 RLL	HDS	CYL	STEP	AVG SEEK
MICROPOLIS		1323A	53.3	41.9	NR	5	1024		28ms
		1324	64.0	50.0	NR	6	1024		28ms
		1324A	74.7	58.7	NR	7	1024		28ms
		1325	85.0	67.1	NR	8	1024		28ms
MICROSCIENCE	3.5"	HH315	12.7	10.7	NR	4	306		
	3.5"	HH325	25.5	21.3	NR	4	612		
	3.5"	HH330	25.5	21.3	*31.0	4	612		
		HH612	12.7	10.7	NR	4	306	10-200us	100ms
		HH625	25.5	21.3	NR	4	612	10-200us	
		HH725	25.5	21.3	NR	4	612		
		HH738	25.5	21.3	*31.0				
	HH1050	55.4	44.0	*66.0	5	1024			
MICROSTORAGE		MS212R	12.7	10.7	*15.6	4	306		95ms
MINISCRIBE		2006	6.4	5.3	NR	2	306	6-200us	85ms
		2012	12.7	10.7	NR	4	306	6-200us	85ms
		3006	6.4	5.3	NR	2	306	6-200us	85ms
		3012	12.7	10.7	NR	2	612	6-200us	155ms
		3212	12.7	10.7	NR	2	612	2-200us	
		3412	12.7	10.7	NR	4	306	2-200us	
		3425	25.5	21.3	NR	4	612	2-500us	
		3438	38.4	NR	*31.0	4	612	2-500us	
		4010	10.0	8.4	NR	2	480	6-200us	
		4020	20.0	16.7	NR	4	480	6-200us	
		5330	30.0	52.1	NR	6	480		85ms
		5338	38.2	32.0	NR	6	612		95ms
		5440	40.0	33.4	NR	8	480		85ms
		5451	51.0	42.6	NR	8	612		95ms
		6032	32.0	26.7	NR	3	1024	2-200us	
		6053	53.3	44.6	NR	5	1024	2-200us	
		6074	74.7	62.4	NR	7	1024	2-200us	
	6128	28.0	NR	20.0					
	3.5"	8438	38.4	21.3	*31.0	4	612		
NEC	3.5"	3126	25.0	20.0	NR	4	615		85ms
	3.5"	D3127	38.4	NR	*31.0	4	615		85ms
		D5124	12.9	10.0	*15.6	4	309		85ms
		D5126	25.5	20.4	*31.0	4	615		85ms
		D5127	38.4	NR	*31.0	4	615		85ms
		D5126H	25.5	20.4	NR	4	615		40ms
		D5127H	38.4	NR	*31.0	4	615		40ms
		D5146	51.24	40.3	NR	8	615		85ms
		D5146H	51.24	40.3	NR	8	615		40ms
		D4127H	76.87	NR	*65.0	8	615		40ms
		5224			NR				
		5244			NR				

MANUFACTURER	MODEL	UNFMT CAP	FMT CAP	2,7 RLL	HDS	CYL	STEP	AVG SEEK
NEWBURY DATA	PENNY	51.9	40.8	NR				
OKIDATA	OD526	25.5	21.3	*31.0	4	612		
	OD540	40.0	33.4	*49.8	6	480		
OLIVETTI	HD662/11	12.75	10.0	NR	2	612		
	HD662/12	25.52	20.0	NR	4	612		
PERIPHERAL TECHNOLOGY (PTI)	PT 325	25.6	20.1	NR	4	615		40ms
	PT 338	38.4	30.3	NR	6	615		40ms
	PT 325R	25.6	20.1	*31.0	4	615		40ms
	PT 338R	38.4	30.3	*45.0	6	615		40ms
PRIAM	502	55.0	46.0	NR	7	755	2-200us	
	504	55.0	46.0	NR	7	755	2-200us	
	514	140.0	117.2	*210.0	11	1224		20ms
	519	191.2	159.8	*285.0	15	1224		20ms
QUANTUM	520	21.3	17.8	NR	4	512	3-200us	45ms
	530	32.0	26.7	NR	6	512	3-200us	45ms
	540	42.7	35.7	NR	8	512	3-200us	45ms
RICOH (DMA)	RH-5130	12.7	10.6	*15.5	2	612		85ms
	RH-5130	25.5	21.0	*32.6	4	612		107ms
RODIME	R0201	6.4	5.3	NR	2	306	5-130us	
	R0201E	13.3	10.5	*15.6	2	640	5-130us	55ms
	R0202	12.7	10.7	NR	4	306	5-130us	
	R0202E	26.7	21.0	*31.0	4	640	5-130us	55ms
	R0203	19.1	16.0	NR	6	306	5-130us	
	R0203E	40.0	*33.0	*47.0	6	640	5-130us	55ms
	R0204	25.5	21.3	NR	8	306	5-130us	
	R0204E	53.3	42.0	*63.0	8	640	5-130us	55ms
	R0251	6.38	5.0	NR	2	306		85ms
	R0252	12.75	10.0	NR	4	306		85ms
	R0342	12.7	10.7	NR	4	306		85ms
	R0351	6.4	5.3	NR	2	306	5-200us	85ms
	R0352	12.7	10.7	*15.6	4	306	5-200us	85ms
SEAGATE	ST212	12.7	10.7	NR	4	306	5-500us	65ms
	ST213	12.7	10.7	NR	2	615	5-500us	65ms
	ST225	25.5	21.4	NR	4	615	5-200us	65ms
	ST238R	38.4	NR	*32.7	4	615	5-500us	65ms
	ST251R	51.2	NR	*43.6	4	820	10-70us	40ms
	ST277R	76.9	NR	*65.5	6	820		40ms
	ST406	6.4	5.3	NR	2	306	5-500us	85ms
	ST412	12.7	10.7	NR	4	306	5-500us	85ms
	ST419	19.1	16.0	NR	6	306	5-500us	85ms
	ST425	25.5	21.3	NR	8	306	5-500us	

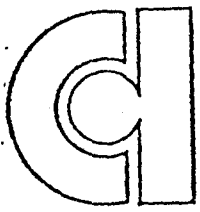
NR - Not recommended

* 2,7 RLL format capacity

MANUFACTURER	MODEL	UNFMT CAP	FMT CAP	2,7 RLL HDS	CYL	STEP	AVG SEEK
SEAGATE	ST506	6.4	5.3	NR	8	153	5-500us
	ST4026	25.6	21.4	NR	4	615	25-50us 40ms
	ST4038	38.1	31.9	NR	5	733	10-70us 40ms
	ST4051	50.8	42.5	NR	5	977	10-70us 40ms
	ST4077R	80.0	NR	*68.2	5	1024	28ms
	ST4096	96.0	80.2	NR	9	1024	3-70us 40ms
	ST4144R	144.0	NR	*122.7	9	1024	28ms
SHUGART	SA604	6.7	5.6	NR	4	160	5-200us
	SA606	10.0	8.4	NR	6	160	5-200us
	SA607	6.5	5.4	NR	2	311	
	SA612	13.0	10.8	NR	4	311	
	SA706	6.4	5.3	NR	2	306	5-200us
	SA712	12.7	10.7	NR	4	306	5-200us
SYQUEST	SQ306R	6.4	5.3	NR	2	306	10-200us 85ms
	SQ312R	12.7	10.7	NR	2	612	10-200us
	SQ319R	12.7	10.7	*15.5	2	612	
	SQ325	25.0	20.0	NR	4	612	
	SQ338	38.0	30.0	NR	6	612	
TANDON	3.5" TM252	12.7	10.7	NR	4	306	
	3.5" TM262	25.0	21.0	NR	4	615	80ms
	3.5" TM263	38.0	NR	*31.0	4	615	80ms
	TM501	6.4	5.3	NR	2	306	5-200us
	TM502	12.7	10.7	*15.6	4	306	5-200us
	TM503	19.1	16.0	NR	6	306	5-200us
	TD703	36.3	30.3	NR	5	695	
TM755	51.4	43.0	*62.0	5	980	35ms	
TOSHIBA	MK56FA	80.0	67.0	*105.0			
TULIN	TL213	13.3	11.1	NR	2	640	5-200us
	TL226	26.7	22.3	NR	4	640	5-200us
	TL240	40.0	33.4	NR	6	640	5-200us
	TL238	38.0	32.0	*48.0	4	640	
	TL258	58.0	48.0	*72.0	6	640	
	TL338	38.0	32.0	*48.0	4	640	
	TL358	58.0	48.0	*72.0	6	640	
VERTEX (PRIAM)	V130	30.8	25.8	NR	3	9876	5-200us
	V150	51.4	43.0	*62.0	5	987	5-200us
	V170	72.0	60.1	*90.3	7	987	5-200us
	V185	85.0	67.1	*100.6	7	1166	

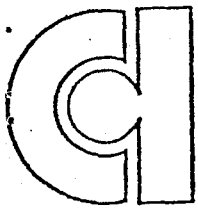
* Approximate 2,7 RLL formatted capacity.
NR - Not Recommended

Drive capacities that format to greater than 64Mbytes and require a partitioning I/O driver to get the full capacity when used with IBM DOS or MS DOS. This driver is available from Ontrack Computer Systems (612) 941-4504 or Chase Technologies at (201) 894-5544.



2.7 RLL QUALIFIED DRIVES

MANUFACTURER	MODEL	2,7 RLL CAPACITY	HDS	CYL	STEP	AVG SEEK
BULL	D530	38.0	3	987		
	D550	63.2	5	987		
	D570	88.4	7	987		
	D585	104.5	7	1166		
LAPINE	3.5" TITAN LT30	31.5	4	616		65ms
MICROSCIENCE	3.5" HH330	31.0	4	612		
	HH738	31.0				
	HH1050	66.0	5	1024		
MINISCRIBE	3438	31.0	4	612	2-500us	
	6128	20.0				
	3.5" 8438	31.0	4	612		
MICROSTORAGE	MS212R	15.6	4	306		95ms
NEC	3.5" D3127	31.0	4	615		85ms
	D5124	15.6	4	309		85ms
	D5126	31.0	4	615		85ms
	D5127	31.0	4	615		85ms
	D5127H	31.0	4	615		40ms
	D4127H	65.0	8	615		40ms
OKIDATA	OD526	31.0	4	612		
	OD540	49.8	6	480		
PERIPHERAL TECHNOLOGY	PT 325R	31.0	4	615		40ms
	PT 338R	45.0	6	615		40ms
PRIAM	514	210.0	11	1224		20ms
	519	285.0	15	1224		20ms
	V150	62.0	5	987	5-200us	
	V170	90.3	7	987	5-200us	
	V185	100.6	7	1166		
RICOH (DMA)	RH-5130	15.5	2	612		85ms
	RH-5130	32.6	4	612		107ms
RODIME	RO201E	15.6	2	640	5-130us	55ms
	RO202E	31.0	4	640	5-130us	55ms
	RO203E	47.0	6	640	5-130us	55ms
	RO204E	63.0	8	640	5-130us	55ms
	RO352	15.6	4	306	5-200us	85ms

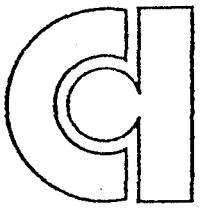


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2/3/87 CS

2,7 RLL QUALIFIED DRIVES

MANUFACTURER	MODEL	2,7 RLL CAPACITY	HDS	CYL	STEP	AVG SEEK
SEAGATE	ST238R	32.7	4	615	5-500us	65ms
	ST251R	43.6	4	820	10-70us	40ms
	ST277R	65.5	6	820		40ms
	ST4077R	68.2	5	1024		28ms
	ST4144R	122.7	9	1024		28ms
SYQUEST	SQ319R	15.5	2	612		
TANDON 3.5"	TM263	31.0	4	615		80ms
	TM502	15.6	4	306	5-200us	
	TM755	62.0	5	980		35ms
TOSHIBA	MK56FA	105.0				
TULIN	TL238	48.0	4	640		
	TL258	72.0	6	640		
	TL338	48.0	4	640		
	TL358	72.0	6	640		



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2/3/87 C.S.

ACB-2010A AND ACB2070A PC SYSTEMS COMPATIBILITY

MANUFACTURER/MODEL

COMMENTS

AT&T 6300	6300 Requires AT&T motherboard ROM version 1.21 or later. To operate with ROM version 1.36 (shipped since 11/1/85), the switch No. 3 on switch block 1 (located on the mother board, closest to the back of the unit) must be put in the "OFF" position. Not compatible with AT&T/Olivetti DOS 2.1. When partitioning the hard disk into two logical units. Use AT&T/Olivetti DOS 3.0 or greater or MS DOS.
6300+	AT&T 6300+ must have motherboard ROM version 2.05 or higher.
COLUMBIA	Not compatible. No Bios support in the Columbia. Some customers have been able to get the ACB-2010A to work in the Columbia model 4220 (56K memory).
COMMODORE PC 10/20	No known problems with either controller.
COMPAQ PORTABLE DESKPRO 286 PORTABLE 286 DESKPRO	No known problems with the ACB-2010A in any of these systems. With the ACB-2070, need to use Compaq DOS 2.0/2.1 or use MS DOS 3.0/3.1. Compaq's 286 PORTABLE DOS 3.0/3.1 does not support the 25 sector/track requirement 286 DESKPRO for the ACB-2070A resulting in no increase in capacity.
CORONA PC (CORDATA)	Older systems will require the 64K motherboard installation instructions to be followed on page B-1 in the Adaptec ACB-2010A or ACB-2070A manual. No problems with the newer Corona systems.
EAGLE	No known problems with either controller.
EPSON EQUITY II	No known problems with the ACB-2010A. ACB-2070 is not compatible. Cannot use the Epson PC DOS (no 25 sector/track support, resulting in no increase in capacity).
ERICSON	Requires special BIOS ROM in the ACB-2002. Not compatible with the ACB-2010A or ACB-2070A. The ACB-2002 controller has been replaced with the ACB-2010A. Contact Ericson for controller availability.

HP VECTRA	No problems with either controller.
IBM PC/XT	No problems with either controller.
ITT-XTRA XP	No known problems with either controller, cannot use fxp disk caching.
XL	ACB-2010A & ACB-2070A not compatible.
LEADING EDGE	No problems with either controller.
MEMOREX	No known problems with either controller.
MITSUBISHI	No known problems with either controller.
NCR PC6	No known problems with either controller.
NOVA	No known problems with either controller.
OLIVETTI M24	M24 is the same as AT&T 6300. See AT&T 6300 notes.
M26	-See AT&T 6300+ notes.
SANYO MBC775	No known problems with either controller.
SPERRY	No known problems with either controller.
TANDY 3000	No known problems with either controller.
VICTOR VPC	No known problems with either controller.
V286	????
ZENITH Z150 PC	No known problems with either controller.
Z151 PC	No known problems with either controller.
Z158 XT	No known problems with either controller.
Z148	ACB-2010A & ACB-2070A not compatible.