

Conner Disk Drives

Quick Installation Guide

Last change 07/Dec/95

Model	Series Name	Capacity (MB)	Physical			Logical			Type	Speed (RPM)	Jumper Table	LED	ISA/CAM
			Heads	Cylinders	Sectors	Heads	Cylinders	Sectors					
CP2024	Kato	21.4	2	654	32	4	615	17	2	3433	3	N/A	ISA only
CP2034	Pancho	32	2	823	38	4	411	38	UT	3486	3	N/A	ISA only
CP2044(PK)	Pancho	42	4	548	38	5	980	17	17/UT	3486	3	N/A	ISA only
CP2064	Pancho	64	4	823	38	4	823	38	UT	3486	3	N/A	ISA only
CP2084	Pancho	85.2	4	1096	38	8	548	38	UT	3486	4	N/A	ISA only
CP2088	Honshu	85	4	1096	38	8	548	38	UT	3486	4	N/A	ISA only
CP2124	Pancho	126.3	4	1164	53	8	762	39	UT	3743	4	N/A	ISA only
CP2124HCD	Pancho	126/3	4	1164	53	8	582	53	UT	3743	4	N/A	ISA only
CP2174	Trigger	168.2	4	1339	47 - 72	16	326	63	UT	4500	5	N/A	Note 6
CP2254	Trigger	252.7	6	1339	47 - 72	16	489	63	UT	4500	5	N/A	Note 6
CP4024	Smith	21.6	2	620	34	4	615	17	2	2913	10	N/A	ISA only
CP4044	Jones	42.6	2	1096	38	5	980	17	17	2905	10	N/A	ISA only
CP322	Toltec	21	2	805	26	4	615	17	2	3600	9	N/A	ISA only
CP324	Toltec	21	2	805	26	4	615	17	2	3600	1	A	ISA only
CP342	Badger	42.6	4	805	26	5	980	17	17	3600	9	N/A	ISA only
CP344	Badger	42.6	4	805	26	5	980	17	17	3600	1	A	ISA only
CP3154	Astec	52.4	4	776	33	4	776	33	UT	3575	1	N/A	ISA only
CP3184	Astec	84.3	6	832	33	6	832	33	UT	3575	1	A	ISA only
CP3104	Astec	104.9	8	776	33	8	776	33	UT	3575	1	A	ISA only
CP3114	Astec	107.3	8	832	33	8	832	33	UT	3575	1	A	ISA only
CP3204F	Rambo	212.6	8	1366	38	16	683	38	UT	3485	6	B	ISA only
CP3304	Summit	340.03	8	1806	46	16	659	63	UT	3828	7	D	ISA only
CP3364	Summit	362.8	8	1808	49	16	702	63	UT	4500	7	C	Note 3
CP3504	Summit	510.4	12	1806	46	16	987	63	UT	3828	7	D	ISA only
CP3544	Summit	544.3	12	1808	49	16	1023	63	UT	4500	7	C	Note 3
CP3024	Hotshot	21.5	2	636	33	4	615	17	2	3575	1	A	ISA only
CP3044	Sierra	42	2	1045	40	5	980	17	17/UT	3557	1	A	ISA only
CP3000	Allegheny	42	2	1045	40	5	980	17	17/UT	3557	1	A	ISA only
CP30064	Hopi	60	2	1524	39	4	762	39	UT	3399	6	B	ISA only
CP30064H	Allegheny	60	2	1524	39	4	762	39	UT	3399	6	B	ISA only
CP30084	Hopi / Tiger	84.1	4	1053	39	8	526	39	UT	3400	6	B	ISA only
CP30084E	Jaguar	85	2	1806	46	4	903	46	UT	3833	5	C/E	Note 1
CP30104	Hopi	120	4	1524	39	8	762	39	UT	3399	6	B	ISA only
CP30104H	Allegheny	120	4	1524	39	8	762	39	UT	3399	6	B	ISA only
CP30124	Mont / Filepro	126	2	1895	62	5	895	55	UT	4542	8	F	Note 4
CP30174	Filepro	172	2	2111	67-91	16	332	63	UT	4011	8	F	Note 4
CP30174E	Jaguar	170	4	1806	46	8	903	46	UT	3833	5	C/E	Note 2
CP30204	Cougar	212.6	4	2124	49	16	683	38	UT	4500	7	C	Note 5
CP30254	Mont / Filepro	251	4	1895	62	10	895	55	UT	4542	8	F	Note 4
CP30254H	Allegheny	250	4	1895	62	10	895	55	UT	4542	8	F	Note 4
CP30344	Filepro	343	4	2111	67-91	16	665	63	UT	4011	8	F	Note 4
CP30544	Aegean	545.9	6	2249	59 - 89	16	1023	63	UT	4500	7	C	Note 6

Model	Series Name	Capacity (MB)	Physical			Logical			Type	Speed (RPM)	Jumper Table	LED	ISA/CAM
			Heads	Cylinders	Sectors	Heads	Cylinders	Sectors					
CFN170A	Trigger	170	4	1339	47-72	16	326	63	UT	4500	8	G	Note 4
CFN250A	Trigger	250	6	1339	47-72	16	489	63	UT	4500	8	G	Note 4
CFN340A	Trigger	340	6	1598	53-89	16	667	63	UT	4000	8	G	Note 4
CFL350A	Kiwi	350	4	2225	54-96	12	905	63	UT	3750	8	G	Note 4
CFL420A	Kiwi	422	4	2393	60-107	16	816	63	UT	3600	8	G	Note 4
CFS210A	Bobcat	210	2	2395	63-100	16	685	38	UT	3600	8	G	Note 4
CFS270A	Cabo	270	2	2595	72-117	14	600	63	UT	3400	8	N/A	CAM only
CFS420A	Bobcat	420	4	2395	63-100	16	826	63	UT	3600	8	G	Note 4
CFS425A	Cabo	425	2	3687	78-144	16	839	62	UT	3600	8	N/A	CAM only
CFS540A	Cabobcat	541	4	3517	79-119	16	1050	63	UT	3600	8	N/A	Note 4
CFS541A	Stingray	540	2	3924	90-170	16	1048	63	UT	3600	8	N/A	CAM only
CFS635A	Stingray	635	3	3640	78-144	16	1238	63	UT	3600	8	N/A	CAM only
CFS850A	Cabobcat	850	4	3640	78-144	16	1651	63	UT	3600	8	N/A	CAM only
CFS1081A	Stingray	1080	4	3924	90-170	16	2097	63	UT	3600	8	N/A	CAM only
CFS1275A	Cabobcat	1278	6	3640	78-144	16	2477	63	UT	3600	8	N/A	CAM only
CFS1621A	Stingray	1620	6	3924	90-170	16	3146	63	UT	3600	8	N/A	CAM only
CFA170A	Filepro II	172	2	2111	67-91	16	332	63	UT	4011	8	G	Note 4
CFA270A	Filepro III	270	2	2805	72-114	10	997	53	UT	4500	8	G	Note 4
CFA340A	Filepro II	343	4	2111	67-91	16	665	63	UT	4011	8	G	Note 4
CFA540A	Filepro III	540	4	2805	72-114	16	1048	63	UT	4500	8	G	Note 4
CFA810A	Bobcat	810	6	2794	72-114	16	1572	63	UT	4500	8	G	Note 4
CFA850A	Steamboat	852	4	3659	80-144	16	1652	63	UT	4500	8	N/A	Note 4
CFA1080A	Cayman	1080	8	2842	72-114	16	2097	63	UT	4500	8	G	Note 4
CFA1275A	Steamboat	1278	6	3659	80-144	16	2479	63	UT	4500	8	N/A	Note 4

All Conner drives are ISA compatible unless noted in the chart on the left. The notes to the left identify which drives are CAM compatible, or CAM/ISA selectable.

CPxxxx4 = IDE/AT (same for all other endings except 9)

CPxxxx9 = MCA

Setup information

All Conner drives are shipped with jumpers to configure the drive in Single (Master) mode.

The CMOS PreComp should be set to 0, the Landing Zone should be set to the number of logical cylinders for all drives.

Conner drives are low-level formatted at the factory, you must not low-level format them yourself. It is only necessary to run SETUP, FDISK and FORMAT.

All Conner 20MB drives can use drive type 2, all Conner 40MB drives can use drive type 17.

All CP2xxx series drives require four 3mm x 0.5mm screws.

All CP3xxx series drives require four 6-32 screws, max screw insertion = 1/8" sides, 1/4" bottom.

The drive may be mounted in any physical orientation.

Jumper Settings for Master/Slave		
Table 1	Single Master	Jumper ACT, C/D Jumper C/D, DSP No Jumpers Installed
Table 2	Single Master Slave	Jumper C/D Jumper C/D, E-1 No Jumpers Installed
Table 3	Single/Master Slave	Jumper E-1 No Jumpers Installed
Table 4	Single/Master Slave	Jumper M/S No Jumpers Installed
Table 5	Single/Master Slave	Jumper C/D No Jumpers Installed
Table 6	Single Master Slave	Jumper C/D Jumper C/D, DSP No Jumpers Installed
Table 7	Single/Master Slave	Jumper C/D, DSP Jumper DSP
Table 8	Single/Master Slave Drive	Jumper J5 1-2 No Jumper J5 1-2
Table 9	Single Drive Master Drive Slave Drive	Jumper E5 & E7 Jumper E6 & E7 Jumper E6
Table 10	Single Drive Master Drive Slave Drive	Jumper E2A Jumper E2A & E1A No Jumpers Installed

ISA/CAM Compatibility	
Note 1	CP30084E, HSE-xx is CAM. STJ-xx is CAM/ISA selectable with CAM jumper. ISA-xx is ISA.
Note 2	CP30174E, HST-xx is CAM. STK-xx is CAM/ISA selectable with CAM jumper. ISI-xx is ISA.
Note 3	CP3364, SCT-xx is CAM. CP3544, STC-xx is CAM.
Note 4	These drives are all CAM/ISA selectable: ISA = J5 3-4 jumper out. CAM = J5 3-4 jumper in.
Note 5	CP30204, STC-xx and STD-xx are CAM.
Note 6	CAM = A/C Jumper in. ISA = A/C Jumper out.

Typical methods of Drive Setup

A. Choose exact match to a drive table entry

B. UT = Universal Translate. Select a drive type that is close to, but does not exceed the maximum capacity of the drive.

C. User Definable = Use logical drive values. Max normal DOS values are 16 heads, 1023 cylinders, 63 sectors.

D. Auto-Install = Your BIOS determines drive values.

CAM drives: CMOS values will match logical values.

ISA drives: Verify CMOS values match logical values.

Model	Series Name	Capacity (MB)	Physical			Speed (RPM)	SCSI ID	LED
			Heads	Cylinders	Sectors			
CP2020	Chico	20	2	643	32	3433	AA	N/A
CP2040	Pancho	42.6	4	548	38	3486	AA	N/A
CP2250	Trigger	252.7	6	1339	47-72	4500	AA	N/A
CP340	Kaitec	42	4	188	26	3600	BB	A
CP3180	Astec	84.3	6	832	33	3575	AA	A
CP3100	Astec	104.9	8	776	33	3575	AA	A
CP3200(F)	Rambo	212.6	8	1366	38	3485	AA	H
CP3360	Summit	362.5	8	1807	49	4498	AA	B
CP5500	Chinook	510	10	2034	49	4498	AA	D
CP3540	Summit	543.7	12	1807	49	4498	AA	B
CP3020	Hotshot	21	2	623	33	3575	AA	A
CP3040	Sierra	42	4	1026	40	3557	AA	A
CP30060	Hopi	60	2	1524	39	3399	AA	B
CP30080	Tiger	84.1	4	1053	39	3400	AA	B
CP30080E	Jaguar	85	2	1806	46	3833	AA	C/E
CP30100	Hopi	120	4	1522	39	3399	AA	B
CP30170	Filepro	172	2	2111	67-91	4011	AA	D
CP30170E	Jaguar	170	4	1806	46	3833	AA	C/E
CP30200	Cougar	212.6	4	2124	49	4500	AA	B
CP30340	Filepro	343	4	2111	67 - 91	4011	AA	D
CP30540	Aegean	545.9	6	2249	59 - 89	5400	AA	B
CP31370	Baja	1371.8	14	2387	52-95	5400	AA	B
CFN170S	Trigger	170	4	1339	47-72	4500	AA	N/A
CFN250S	Trigger	250	6	1339	47-72	4500	AA	N/A
CFN340S	Trigger	340	6	1598	53-89	4000	AA	N/A
CFA170S	Filepro	172	2	2111	67-91	4011	AA	D
CFA270S	Filepro	270	2	2805	72-114	4500	AA	D
CFA340S	Filepro	343	4	2111	67 - 91	4011	AA	D
CFA540S	Filepro	540	4	2805	72-114	4500	AA	D
CFP1060S/E/W	Barbados	1060	8	2757	64-112	5400	AA/CC	D
CFP1080S/E	Antigua	1080	6	3658	66-120	5400	AA	D
CFP2105S/E/W	Cayman	2147	10	3948	67-139	5400	AA/CC	D
CFP2107S/E/W	Cayman	2147	10	4016	69-124	7200	AA/CC	D
CFP4207S/E/W	Cayman	4294	20	4016	69-124	7200	AA/CC	D

Parity is always enabled on the CP3200, CP30060, CP30100, CP30200, CP3500, CP3360, CP30540 and CP31370.

All drives are shipped with parity enabled. To disable parity on the CP340, remove jumper E-1. To disable parity on the CFP drives, remove jumper E-7. On all other drives, remove jumper E-4.

Most SCSI host adapters are compatible with Conner drives.

Software drivers and installation instructions are provided with the host adapter.

The drives are shipped with SCSI ID set to 7 or 6.

To select a different ID, refer to the chart on the right.

LED Configuration Table			
Letter	Connector	LED+	LED-
A	J-4	Pin 1	Pin 2
B	J-1	Pin 3	Pin 4
C	J-5	Pin 3	Pin 4
D	J-3	Pin 3	Pin 4
E	J-7	Pin 1	Pin 2
F	J-5	Pin 7	Pin 8
G	J-4	Pin 5	Pin 6
H	J-1	Pin 1	Pin 2

SCSI ID Jumper Settings				
Chart AA				
ID	E-1	E-2	E-3	
0	Out	Out	Out	
1	In	Out	Out	
2	Out	In	Out	
3	In	In	Out	
4	Out	Out	In	
5	In	Out	In	
6	Out	In	In	
7	In	In	In	
Chart BB				
ID	E-2	E-3	E-4	
0	Out	Out	Out	
1	In	Out	Out	
2	Out	In	Out	
3	In	In	Out	
4	Out	Out	In	
5	In	Out	In	
6	Out	In	In	
7	In	In	In	
Chart CC				
ID	E1	E2	E3	E4
0	Out	Out	Out	Out
1	In	Out	Out	Out
2	Out	In	Out	Out
3	In	In	Out	Out
4	Out	Out	In	Out
5	In	Out	In	Out
6	Out	In	In	Out
7	In	In	In	Out
8	Out	Out	Out	In
9	In	Out	Out	In
10	Out	In	Out	In
11	In	In	Out	In
12	Out	Out	In	In
13	In	Out	In	In
14	Out	In	In	In
15	In	In	In	In