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TO: Distribution

FROM: Tom Carroll/Barry Yarkoni *TPR* *WR for BY*

SUBJECT: Disk Attachment Interconnect Configuration

The release of the 1/2 high flexible disc drive products in January 1983 will allow the user to attach and configure his system with much greater versatility. All disc products will have a DB-25 connector for standard interface. These devices will attach to the Apple II and IIe via a DB-19 connector interface. They will also attach to the AIII via a 26 pin to DB-25 cable ASM and to the AIIIr via a DB-25 connector interface.

The new intelligent controllers for the Apple II, Apple IIe, Apple III and Apple IIIR will attach a Unifile/Duofile disc drive via a DB-25 connector interface at the back panel.

The system/disk interconnect configuration matrix defines the external cable assemblies and interface PCB's required for the various disk drive attachments.

Daisy chain features are available for the single 1/2 High Disk, Disk III and Unifile, only.

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CABLE ASM DESCRIPTION

P/N 590-0114

- DB-19 to DB-25 molded connector round shielded cable assembly. External cable for attachment of 1/2 High single and dual flexible disc drive to AII or AIIe.

P/N 590-0115

DB-25 to DB-25 molded connector round shielded cable assembly. External cable for attachment of 1/2 High single and dual flexible disc drive, unifile and duofile disc drives to AII, AIIe, AIII and AIIIe.

P/N 590-0124

DB-25 to 26 position molded connector round cable ASM (unshielded). External cable for attachment of 1/2 high single and dual disc drive to AIII.

P/N 590-0123

DB-25 to 26 position molded block adapter assembly. External adapter for attachment of Disk III to AIIIe. Not required if judged non-FCC compliant.

P/N 590-0107

20 position to DB-19 ribbon cable assembly. For internal attachment of interface PCB P/N 650-X104 to D-19 outhouse on AII or to back panel of AIIe. This configuration will support the radial attachment of a single 1/2 high flexible disc drive. One cable assembly required for each drive. One outhouse will accommodate two cable assemblies when attached to the AII.

P/N 590-0125

20 conductor ribbon cable to DB-19 connector. For internal attachment of interface PCB P/N 650-XXXX to D-19 outhouse on AII or back panel on AIIe. This configuration will support the attachment of 2 single 1/2 high disc drives daisy chained, or a dual 1/2 high disc drive. This cable ASM is an integral part of the interface PCB.

P/N 590-XXXX

26 position to DB-25 ribbon cable assembly for internal attachment of intelligent INTF PCB. P/N 650-XXXX to D-25 outhouse on AII or to D-25 cutout in back panel of AIIe. Supports radial attachment of one unifile with daisy chain feature, or one duofile.

P/N 590-0113

DB-25 to DB-25 molded connector round shielded cable assembly. External daisy chain cable for attachment of second 1/2 high single drive or second unifile.

INTERFACE PCB DESCRIPTION

P/N 650-X104

Interface PCB will support a maximum of 2 disc II disc drives, direct attachment with ribbon cable. This configuration is for radial interface on AII and AIIe.

P/N 650-XXXX

Interface PCB will support attachment of a maximum of two 1/2 high flexible disc drives. Ribbon cable assembly with D-19 connector is integral part of PCB ASM. This configuration is for daisy chain interface with 2 single 1/2 high drives or 1 dual 1/2 high drive on AII or AIIe.

P/N 650-XXXX

Intelligent interface PCB for AII and AIIe.

P/N 650-XXXX

Intelligent interface PCB for AIII and AIIIe.

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AII RADIAL INTERFACE
DISK II	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-X104 2. Cable ASM P/N 590-0031 (Per Drive) 3. Grounding bracket P/N <p>NOTE: INTF PCB will support 2 drives max. Cable ASM is integral with drive</p>
DISK III (External)	NA
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-X104 2. Internal cable ASM 590-0107 (1 Per Drive) 3. DB-19 outhouse ASM P/N XXX-XXXX 4. External cable ASM P/N 590-0114 (1 Per Drive) 5. Jacknut P/N 835-0006 (2 Per Drive) <p>NOTE: INTF PCB and outhouse will support 2 drives max.</p>
DUAL DRIVE (Chicklet)	NA
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. DB-25 outhouse ASM P/N XXX-XXXX 4. External cable ASM P/N 590-0115 5. Jacknut P/N 835-0006
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. DB-25 outhouse ASM P/N XXX-XXXX 4. External cable ASM P/N 590-0115 5. Jacknut P/N 835-0006 (2)

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AII DAISYCHAIN INTERFACE
DISK II	NA
DISK III (External)	NA
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-XXXX (Int. cable integral) 2. DB-19 outhouse P/N XXX-XXXX 3. External cable ASM P/N 590-0114 4. Jacknut P/N 835-0006 (2) <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Single disk drive (Munchkin) (Drive No. 2) 2. Ext. daisychain cable ASM 590-0113 <p>NOTE: INTF PCB will support 2 drives max.</p>
DUAL DRIVE (Chicklet)	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-XXXX (Int. cable integral) 2. DB-19 outhouse P/N XXX-XXXX 3. External cable ASM P/N 590-0114 4. Jacknut P/N 835-0006 (2) <p>NOTE: INTF PCB will support 2 drives max.</p>
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. DB-25 outhouse ASM P/N XXX-XXXX 4. External cable ASM P/N 590-0115 5. Jacknut P/N 835-0006 (2) <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Unifile (Drive No. 2) 2. Ext. daisychain cable ASM P/N 590-0113
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. DB-25 outhouse ASM P/N XXX-XXXX 4. External cable ASM P/N 590-0115 5. Jacknut P/N 835-0006 (2)

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AIIe RADIAL INTERFACE
DISK II	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-X104 2. Cable ASM P/N 590-0031 (Per Drive) 3. Clamp P/N 805-0115 <p>NOTE: INTF PCB will support 2 drives max. Cable ASM is integral with drive</p>
DISK III (External)	NA
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-X104 2. Internal cable ASM P/N 590-0107 (Per Drive) 3. External cable ASM P/N 590-0114 (Per Drive) 4. Jacknut P/N 835-0006 (2 Per Drive) <p>NOTE: INTF PCB will support 2 drives max.</p>
DUAL DRIVE (Chicklet)	NA
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. External cable ASM P/N 590-0115 4. Jacknut P/N 835-0006
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. External cable ASM P/N 590-0115 4. Jacknut P/N 835-0006 (2)

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AIIe DAISYCHAIN INTERFACE
DISK II	NA
DISK III (External)	NA
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-XXXX (Int. cable integral) 2. External cable ASM P/N 590-0114 3. Jacknut P/N 835-0006 (2) <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Single disk drive (Munchkin) (Drive No. 2) 2. Ext. dsiaychain cable ASM P/N 590-0113 <p>NOTE: INTF PCB will support 2 drives max.</p>
DUAL DRIVE (Chicklet)	<ol style="list-style-type: none"> 1. Interface PCB P/N 650-XXXX (Int. cable integral) 2. External cable ASM P/N 590-0114 3. Jacknut P/N 835-0006 (2) <p>NOTE: INTF PCB will support 2 drives max.</p>
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. External cable ASM P/N 590-0115 4. Jacknut P/N 835-0006 (2) <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Unifile (Drive No. 2) 2. Ext. daisychain cable ASM P/N 590-0113
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. Internal cable ASM P/N 590-XXXX 3. External cable ASM P/N 590-0115 4. Jacknut P/N 835-0006 (2)

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AIII RADIAL INTERFACE
DISK II	NA
DISK III (External)	1. External cable ASM P/N 590-0024 NOTE: Cable ASM is integral to drive
SINGLE DRIVE (Munchkin)	1. External cable ASM P/N 590-0124
DUAL DRIVE (Chicklet)	1. External cable ASM P/N 590-0124
UNIFILE	1. Intelligent controller P/N 650-XXXX 2. External cable ASM P/N 590-0115
DUOFILE	1. Intelligent controller P/N 650-XXXX 2. External cable ASM P/N 590-0115

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AIII DAISYCHAIN INTERFACE
DISK II	NA
DISK III (External)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0024 <p>NOTE: Cable ASM is integral to drive</p> <p>OPTIONAL: (Drive No. 3 or No. 4)</p> <ol style="list-style-type: none"> 1. Disk III 2. Cable ASM P/N 590-0024 <p>NOTE: Cable ASM is integral to drive</p>
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0124 <p>OPTIONAL: (Drive No. 3 and/or No. 4)</p> <ol style="list-style-type: none"> 1. Single drive/dual drive 2. Daisychain cable ASM P/N 590-0113 <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Disk III 2. External cable ASM P/N 590-0024 (Integral to Disk III) 3. Adapter block P/N 590-0123
DUAL DRIVE (Chicklet)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0124
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent controller P/N 650-XXXX 2. External cable ASM P/N 590-0115 <p>OPTIONAL: (Drive No. 3 or No. 4)</p> <ol style="list-style-type: none"> 1. Unifile 2. Daisychain cable ASM P/N 590-0113
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent controller P/N 650-XXXX 2. External cable ASM P/N 590-0115

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AIIIIe RADIAL INTERFACE
DISK II	NA
DISK III (External)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0024 2. Adapter block P/N 590-0123 <p>NOTE: Cable ASM is integral to drive</p>
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0115
DUAL DRIVE (Chicklet)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0115
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. External cable ASM P/N 590-0115
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. External cable ASM P/N 590-0115

FLEXIBLE DISK DRIVE ATTACHMENT CONFIGURATION

DRIVE	AIIIE DAISYCHAIN INTERFACE
DISK II	NA
DISK III (External)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0024 2. Adapter block P/N 590-0123 <p>NOTE: Cable ASM integral to drive</p> <p>OPTIONAL: (Drive No. 3 or No. 4)</p> <ol style="list-style-type: none"> 1. Disk III 2. External cable ASM P/N 590-0024 <p>NOTE: Cable ASM integral to drive</p>
SINGLE DRIVE (Munchkin)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0115 <p>OPTIONAL: (Drive No. 3 and/or No. 4)</p> <ol style="list-style-type: none"> 1. Single Drive/Dual Drive 2. Daisychain cable ASM P/N 590-0113 <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Disk III 2. External cable ASM P/N 590-0024 (integral to Disk III) 3. Adapter block P/N 590-0123
DUAL DRIVE (Chicklet)	<ol style="list-style-type: none"> 1. External cable ASM P/N 590-0115
UNIFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. External cable ASM P/N 590-0115 <p>OPTIONAL:</p> <ol style="list-style-type: none"> 1. Unifile (Drive No. 3) 2. Daisychain cable P/N 590-0113
DUOFILE	<ol style="list-style-type: none"> 1. Intelligent interface PCB P/N 650-XXXX 2. External cable ASM P/N 590-0115