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PICTURE 1

IBM PS/2 5.25-Inch Slim-High Diskette Drive

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Part Number 15F2274

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5.25-Inch Slim-High Diskette Drive

1.0 5.25-Inch Slim-High Diskette Drive

The 5.25-Inch Slim-High Diskette Drive allows data to be copied to and from 5.25-inch diskettes. The drive is capable of reading from and writing to high-capacity and double-density diskettes.

The drive is a direct-access device containing a spindle drive, a head-positioning mechanism, and read, write, and erase logic. The drive is powered by the power supply in the system unit. The signals for operating the diskette drive are generated by the diskette drive controller on the system board. A drive-in-use light indicates when the drive is selected.

The drive uses 5.25-inch single-sided or double-sided diskettes with 40 tracks on each side. Double-sided diskettes have a formatted capacity of 320KB or 360KB depending on the operating system. The drive can also use 5.25-inch high-capacity diskettes with 80 tracks on each side. High capacity diskettes have a formatted capacity of 1.2MB.

Subtopics

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- 1.3 Specifications

Connector Information

1.1 Connector Information

The following table shows the signals and pin assignments for the 34-pin header connector on the drive.

Pin	I/O	Signal	Pin	I/O	Signal
1	N/A	Ground	2	N/A	Reserved
3	N/A	Reserved	4	N/A	Reserved
5	N/A	Ground	6	N/A	Reserved
7	N/A	Ground	8	O	-Index
9	O	Drive Type ID 1	10	N/A	Reserved
11	N/A	Ground	12	I	-Drive Select
13	N/A	Ground	14	N/A	Reserved
15	N/A	Ground	16	I	-Motor Enable
17	N/A	Reserved	18	I	-Direction Select
19	N/A	Ground	20	I	-Step
21	N/A	Ground	22	I	-Write Data
23	N/A	Ground	24	I	-Write Enable
25	N/A	Ground	26	O	-Track 0
27	N/A	Reserved	28	O	-Write Protect
29	N/A	Ground	30	O	-Read Data
31	N/A	Ground	32	I	-Side 1 Select
33	I	DRATE 0	34	O	-Disk Change

The following table shows the voltages and pin assignments for the dc power interface.

Pin	Assignment
1	+12 Vdc
2	+12 Vdc Return
3	+ 5 Vdc Return
4	+ 5 Vdc

5.25-Inch Diskettes and Drive Compatibility

1.2 5.25-Inch Diskettes and Drive Compatibility

Several types of 5.25-inch diskettes and diskette drives are available. The following table provides information concerning the identification of 5.25-inch diskette drives.

Diskette Drive	Identifying Mark
5.25-inch - 360KB	Asterisk (*) on Bezel
5.25-inch - 1.2MB	None or "1.2" on eject button

The following table shows the compatibility of diskettes to diskette drives.

Diskette Capacity	320/360KB Drive	1.2MB Drive
160/180KB	Read/Write	Read*
320/360KB	Read/Write	Read*
1.2MB	Not Compatible	Read/Write

*After these diskettes are written to by a 1.2MB drive, the diskettes can be read only by a 1.2MB drive.

1.3 Specifications

Size

- Depth: 193 mm (7.60 in.)
- Height: 28 mm (1.10 in.)
- Width: 146 mm (5.67 in.).

Weight

1.0 kg (2.30 lb)

Environment

- Temperature:
 - Power on: 10° to 35°C (50° to 95°F)
 - Power off: 0.6° to 60°C (33° to 140°F).
- Humidity:
 - Power on: 8% to 80%
 - Power off: 5% to 80%.
- Maximum altitude: 2134 m (7000 ft).

1.4 Removals and Replacements

See the *Hardware Maintenance Reference* pamphlet for the model you are servicing.

Notes: