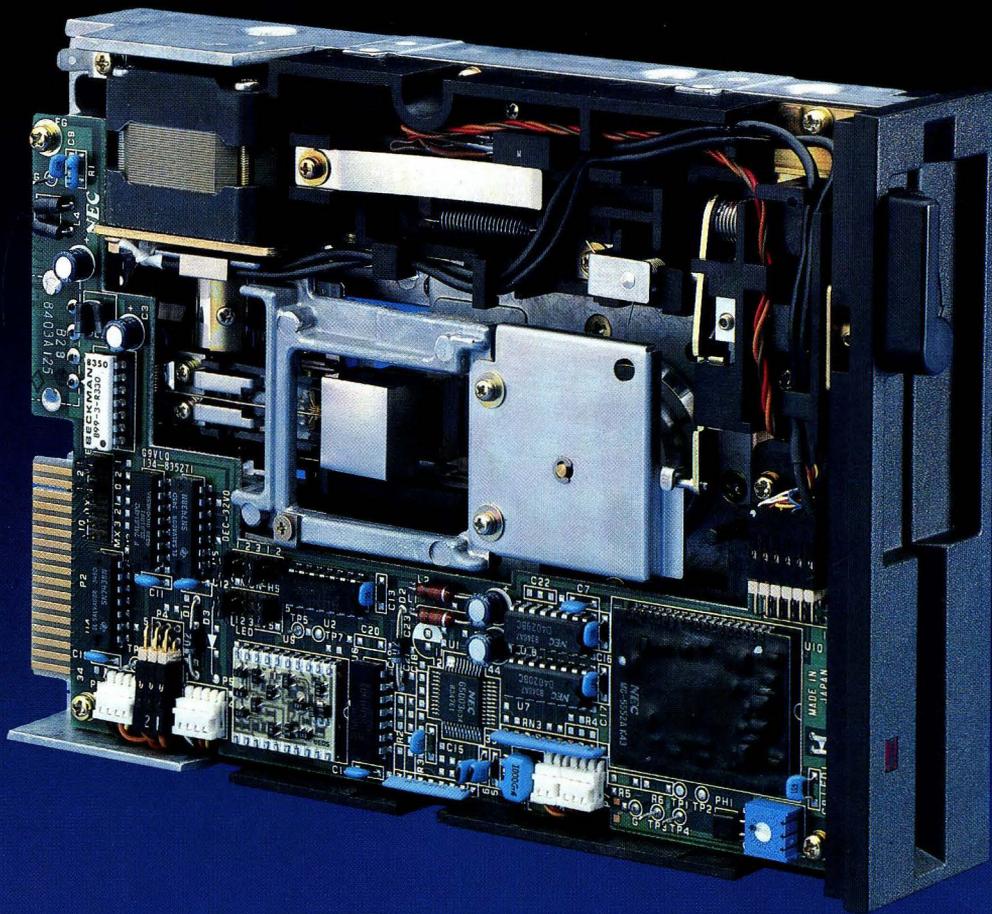


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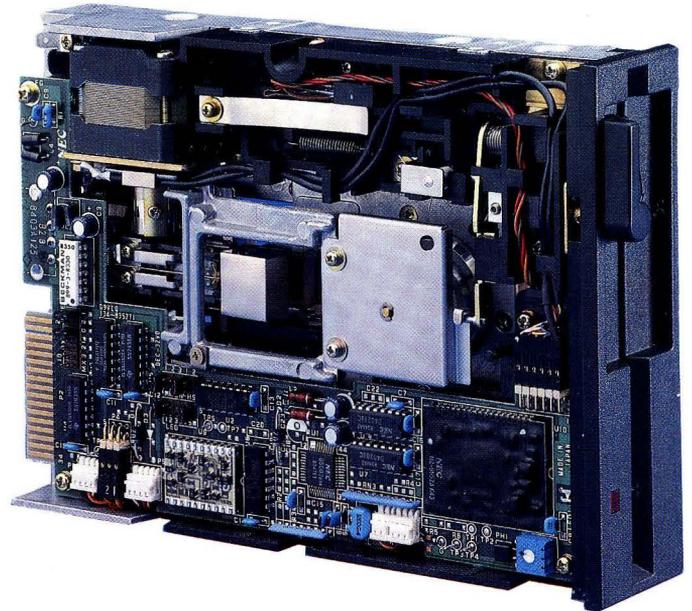
FD1155

5 1/4-Inch Minifloppy Disk Drive



FEATURES

- Compact design — half the height of standard 5 1/4-inch disk drives
- Large storage capacity — 1.6 MB, dual-sided, double-density
- Direct drive, brushless DC motor
- High-speed data transfer — 500 Kbit/sec, compatible with 8-inch drives
- Dual speed control — 360 rpm and 300 rpm
- Outstanding reliability — 12,000 hours MTBF
- Easy maintenance — less than 15 minutes MTTR



DESCRIPTION

The new FD1155 disk drives continue NEC's tradition of outstanding reliability while adding versatility to system design. Because two of our compact drives fit into much less space than a conventional drive, storage capacity is increased. Two FD1155's provide 3.2 MB of storage, compared to only 1.6 MB with a standard 8-inch drive. For even greater versatility, FD1155 drives can be mounted either horizontally or vertically. And their OEM systems compatibility eliminates the need for controller redesign, allowing you to increase your storage capacity at minimal cost.

All design aspects of the FD1155 work together to optimize your investment. Engineering innovations include a direct-drive, brushless DC motor that eliminates the problems associated with belt-driven devices. The disk drive lowers your costs by using only 4.8 watts of power, allowing you to use less expensive power supplies.

The FD1155 incorporates the latest advances in read/write technology. Heads are positioned by a steel band and stepper motor under microprocessor control — making the FD1155 one of the most accurate in the industry. This head-loading mechanism uses an NEC-patented cam that protects media from damage during head loading.

NEC's state-of-the-art technology also produces rapid data access and transfer. Track-to-track access is a quick 3 ms. And the interface transfers data at a remarkable 500 Kbit/sec. In addition, dual-speed control adds versatility by changing the spindle speed from 360 to 300 rpm — thus enabling the drive to read 48 tpi as well as 96 tpi media.

All these features are enhanced by outstanding reliability and easy maintenance — a mean time between failures (MTBF) of 12,000 power-on hours and a mean time to repair (MTTR) of less than 15 minutes. Because fewer service calls are needed and less time is spent on repairs, overall ownership cost is reduced.

NEC's commitment to meeting OEM needs is backed by over 22 years of disk design and manufacturing experience. The new FD1155 disk drives reflect the same high standards of quality, versatility, and reliability you've come to expect from NEC.

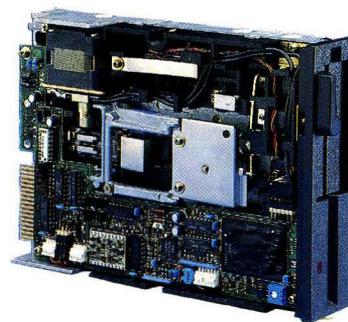
SPECIFICATIONS

● Unformatted capacity	1.6/0.8 MB
● Data transfer rate	500/250 Kbit/sec
● Rotational speed	360/300 rpm
● Seek time (track-to-track)	3 ms
● Seek settling time	15 ms
● Head load time	35 ms
● Track density	96 tpi
● Number of tracks	154/160
● Number of cylinders	77
● Number of heads	2
● Maximum bit density	9646 bpi
● Start time	500 ms
● Dimensions	
Height	1.61 in. (41 mm)
Width	5.75 in. (146 mm)
Depth	7.99 in. (203 mm)
● Weight	3.3 lb. (1.5 kg)
● Power supply requirement	
+12V	390 mA start-up current 210 mA drive-ready current
+5V	460 mA start-up current 460 mA drive-ready current
● Power dissipation	4.8W
● Reliability	
MTBF	12,000 POH
MTTR	0.25 hours
Device life	15,000 POH or 5 years (component life)
Soft error rate	1 x 10 ⁹ bits
Hard error rate	1 x 10 ¹² bits
Seek error rate	1 x 10 ⁶ bits
● Media life	3.0 x 10 ⁶ passes/track
● Disk	5 1/4-inch, double-sided, high-density floppy disk

ENVIRONMENTAL CONDITIONS

CONDITION	OPERATING	STORAGE	TRANSPORTING
Temperature	39° to 114° F (4° to 46° C)	-4° to 140° F (-20° to 60° C)	-40° to 149° F (-40° to 65° C)
Relative humidity (non-condensing)	20% to 80%	10% to 90%	5% to 95%
Maximum wet-bulb temperature	84° F (29° C)	104° F (40° C)	113° F (45° C)
Largest temperature gradient	27° F/hour (15° C/hour)	54° F/hour (30° C/hour)	54° F/hour (30° C/hour)
Allowable vibration point*	0.5G	3G	3G
Allowable shock (less than 10 ms)	10G	15G	40G

*less than 100 Hz, except at resonance point



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819-150173-000 Rev. 00

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