

## 1. OUTLINE

This specification provides a description for the TEAC FD-235HF, dual density (2/1MB, 2-modes), 3.5-inch micro floppy disk drive (hereinafter referred to as FDD). Table 1-1 shows the outline of the FDD, and Table 1-2 shows the signal interface pin-assignment.

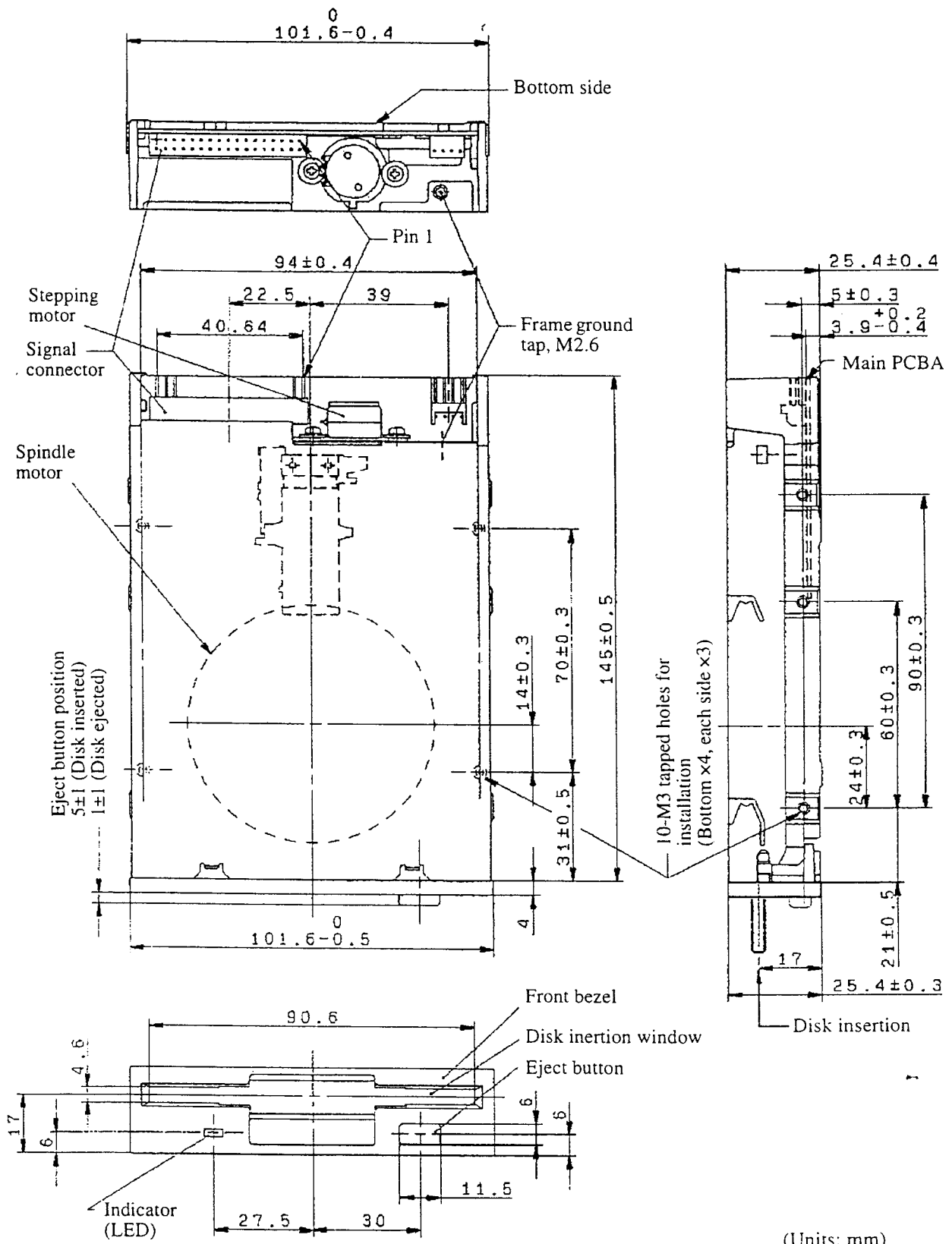
(Table 1-1) Specification outline

Model name	FD-235HF-A291	
Front bezel	Beige (PS)	
Eject button	Beige (PS)	
LED indicator	Green	
Safety standard	UL, CSA & TÜV	
Operation modes	2MB mode Write and read	1MB mode Write and read
3.5 inch disk used	High density (2HD)	Normal density (2DD)
Unformatted data capacity	2M bytes	1M bytes
Data transfer rate	500k bits/s	250k bits/s
Disk rotational speed	300rpm	300rpm
Track density	5.3track/mm (135tpi)	
Track to track time	3ms	
Required power	+5V single (4.5 ~ 5.5V)	
Signal output driver	Open collector TTL	
Input signal pull-up	1k $\Omega$ $\pm$ 30%	
Function setting at delivery	<ol style="list-style-type: none"> <li>1. Interface setting               <ol style="list-style-type: none"> <li>1.1 Pin12: DRIVE SELECT 1 input</li> <li>1.2 Pin34: DISK CHANGE output</li> </ol> </li> <li>2. Other function setting               <ol style="list-style-type: none"> <li>2.1 Automatic density setting for 2DD (1MB) disk or 2HD (2MB) disk.</li> <li>2.2 LED turn on condition: DRIVE SELECT</li> <li>2.3 Motor rotating condition: MOTOR ON</li> <li>2.4 Ready and seek-complete gate (full-mask) for INDEX and READ DATA output pulses.</li> <li>2.5 Auto-chucking at disk installation</li> <li>2.6 Auto-recalibration at power on</li> <li>2.7 Frame is electrically shorted to DC 0V.</li> </ol> </li> </ol>	
Interface connector	34 pin right-angled header connector	
Power connector	Equipped	
Other optional function	Not equipped	

### 3. PHYSICAL SPECIFICATION

(Table 3-1) Physical specification

Width	101.6mm (4.00 in), Nom.
Height	25.4mm (1.00 in), Nom.
Depth	145mm (5.71 in), Nom., excluding front bezel
Weight	345g (0.76lbs), Nom., 360g (0.79 lbs), Max.
External view	See fig.3-1.
Cooling	Natural air cooling
Mounting	Mountings for the following directions are acceptable. (a) Front loading, mounted vertically. (b) Front loading, mounted horizontally with spindle motor down. (c) Mounting angle in items (a) and (b) should be less than 25° with front bezel up or down. Note: As to the other mounting directions than the above will be considered separately.
Installation	With installation holes on the frame of the FDD. Refer to Fig.3-1.
Material of frame	Aluminium die-cast
Material of front bezel	PPHOX (Complying with UL94-5V)



(Fig. 3-1) FDD external view

(Units: mm)