This specification provides a description for the TEAC FD-235HF, double sided, dual density, 3.5 inch floppy disk drive (hereinafter referred to as the FDD). Table 1 shows the outline of the FDD.

		•			
Model name	FD-235HF -62XX				
Safety standard on label	UL, CSA & IEC950 (CB)				
Operation modes	High density mode, Write and read	Normal density mode, Write and read			
3.5" disk used	High density (2HD)	Normal density (2DD)			
Unformatted data capacity	2M bytes	1M bytes			
Data transfer rate	500k bits/sec	250k bits/sec			
Disk rotational speed	300rpm				
Track density	135tpi				
Track to track time	3msec +5V single (4.5 ~ 5.5V)				
Required power					
Front bezel & flap					
Eject button	Green Open collector TTL				
LED indicator color					
Signal output driver					
Input signal terminator	1kΩ ± 5%, unremovable 2 selections, refer to item 11.1. 1. Strap setting 1.1 DS1: DRIVE SELECT 1 on pin 12 2. Other function setting 2.1 Automatic density setting by HD hole 2.2 LED turn-on condition: DRIVE SELECT 2.3 Motor rotating condition: MOTOR ON 2.4 Ready and seek-complete gate (full-mask) for INDEX and READ DATA output pulses 2.5 DISK CHANGE on pin 34 2.6 Auto-chucking, auto-recalibration 2.7 FDD frame is electrically shorted to DC OV.				
Customer selectable strap					
Function setting at delivery					
Interface connector	34 pin right angle header connector and power connector				
Other optional function	Not equipped.	- T			
					

	FDD name	E	Parts Nos.			
	rob name	Front color	Front bezel Ass'y	Button		
*	FD-235HF-6240	PC/AT	17968300-03	16788039-03		
*	FD-235HF+6291	PS/2	17967696-04	16788039-04		

(Table 2B) Parts Nos. of front bezel Ass'y and button

1. OUTLINE

This specification provides a description for the TEAC FD-235HF, double sided, dual density, 3.5 inch floppy disk drive (hereinafter referred to as the FDD). Table 1 shows the outline of the FDD.

	Model name	FD-235HF-6429			
ſ	Safety standard	UL, CSA & IEC950 (CB)			
	Operation modes	High density mode, Write and read	Normal density mode, Write and read		
Ī	3.5" disk used	High density (2HD)	Normal density (2DD) 1M bytes		
	Unformatted data capacity	2M bytes			
ſ	Data transfer rate	500k bits/sec	250k bits/sec		
	Disk rotational speed	300rpm			
	Track density	135tpi			
	Track to track time	3msec			
ľ	Required power	+5V single (4.5 ~ 5.5V)			
	Front bezel & flap	Black			
ľ	Eject button	Black			
	LED indicator color	Green			
	Signal output driver	Open collector TTL			
Ī	Input signal terminator	$1k\Omega \pm 5$ %, unremovable			
	Customer selectable strap	2 selections, refer to item 11.1.			
	Function setting at delivery	1. Strap setting 1.1 DS1: DRIVE SELECT 1 on pin 12 2. Other function setting 2.1 Automatic density setting by HD hole 2.2 LED turn-on condition: DRIVE SELECT 2.3 Motor rotating condition: MOTOR ON 2.4 Ready and seek-complete gate (full-mask) for INDEX and READ DATA output pulses 2.5 DISK CHANGE on pin 34 2.6 Auto-chucking, auto-recalibration 2.7 FDD frame is electrically shorted to DC OV.			
	Interface connector	34 pin right angle header connector and power connector			
	Other optional function	Not equipped.			

(Table 1) Specification outline

NOTE: Jumper settings for models FD235HF-62XX & -64XX (The only difference is the color of the faceplate)

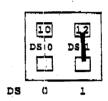
11. CUSTOMER SELECTABLE STRAPS

11.1 Function Summary of Straps

The FDD is equipped with the following selectable straps on the main PCBA.

Insertion of a short bar onto the post pin is defined as the on-state of the strap. Refer to Table 1 in item 1 as to the strap setting at delivery.

Strap	Function						
DSO	DRIVE	SELECT	0	input	on.	pin	10
DS1	DRIVE	SELECT	1	input	ΟĽ	pin	12



Strap-post layout

(Table 6) Function summary of straps

11.2 DSO and DS1 Straps

- (1) In the multiplex control, these straps designate the address of the FDD.
- (2) By the combination with the DRIVE SELECT 0 and 1 signals, two addresses, can be designated. Refer to Fig. 3 and Table 6.

12. TURN ON CONDITION OF INDICATOR AND SPINDLE MOTOR

12.1 Front Bezel Indicator

The indicator (LED) turns-on while the DRIVE SELECT signal is TRUE. However, the indicator keeps off until 3.1msec has passed after the DRIVE SELECTion to avoid the polling operation of the DRIVE SELECT signal.

12.2 Spindle Motor

- (1) The spindle motor rotates while the MOTOR ON signal is TRUE. However, the spindle motor does not rotate at any condition while no disk is installed.
- (2) Auto-chucking operation is executed at each disk installation by rotating the spindle motor for 490msec, approx. (500msec, Max.). All the interface signals are valid according to the explanation in item 8.3 while the auto-chucking operation is in progress.