

COMMAND CODE - E7h

TYPE - The command and each subcommand is optional

PROTOCOL - Non-Data

INPUTS - The Feature register contains a subcommand code as described in Table x.x.

Register	7	8	5	4	3	2	1	0
Features	Subcommand code							
Sector Count								
Sector Number								
Cylinder Low								
Cylinder High								
Device/Head	1		1	D				
Command	E7h							

NORMAL OUTPUTS - None required.

ERROR OUTPUTS - If the command or a subcommand is not supported, the device posts an Aborted Command error. An unrecoverable error encountered during execution of writing results in the termination of the command and the Command Block registers contain the sector address of the sector where the first unrecoverable error occurred.

Status Register					Error Register				
DRDY	DF	CORR	ERR	BBK	UNC	IDNF	ABRT	Trk0NF	AMNF
V	V		V				V		

PREREQUISITES - DRDY set (1)

DESCRIPTION - This command is used by the host to request the device to flush the write caches and optionally disable its write caches so that additional writes will not be cached. If the write caches are to be flushed, all data cached will be written to the media. The Features register contains a subcommand which defines the operation to be performed. Refer to the subcommand definitions in Table x.x for specific details of each subcommand.

Upon receipt of the command, the device will set BSY and begin execution. All data in all write caches will be written to the media. The BSY bit shall remain set until all data has been successfully written or an error occurs. The device should use all error recovery methods available to ensure the data is written successfully. This includes the automatic relocation of bad sectors, provided it is enabled. It should be noted the flushing of write caches may take

several seconds to complete depending upon the amount of data to be flushed and the success of the operation. The host should allow for the maximum execution time.

Table x.x - Subcommand definitions of Flush Cache command

Value	Function
00h	Flush all write caches and disable further write caching.
01h	Flush all write caches and do not disable write caching.
Note: All values not shown are reserved for future definition.	

x.xx.1 Flush write caches and disable

Subcommand code 00h instructs the device to write to the media all data which has been cached for writing. After all data has been written, no further write data will be cached until either write caching is re-enabled by the host, or the device receives a hard or soft reset, or power is removed and reapplied.

x.xx.2 Flush write caches and do not disable

Subcommand code 01h instructs the device to write to the media all data which has been cached for writing. After all data has been written, write caching will continue if enabled.