



**Dell 425/433TE**

**Specifications**

**Processor**

- Intel 80486/25/33MHz

**Memory**

- 4MB standard, expands to 64MB

**I/O Expansion Slots**

- 8-EISA 32-bit expansion slots

**Diskette Drive**

- 1.2MB diskette drive

**Integrated Features**

- Parallel, 2-serial, keyboard, VGA

**Internal Expansion Bays**

- 3-user accessible, 8-internal

**I/O Architecture**

- EISA

**Power Supply**

- 300 Watt

**Diagnostics**

- Normal Post Diags performed on Power UP of system.
- Dell system support diskette
- Troubleshoot according to errors found during test

**CMOS Access**

- QAPIus/FE

**Tools and Software Requirements**

- Flat bladed screwdriver
- Needle nose pliers
- Anti-static wrist strap
- Diagnostics and formatted blank diskettes

**System Board, Switch Settings**

**SW1, Jumper Settings**

Jumper	Position	Function
HDIRQ	OFF*	Works with all ESDI drvs.
	ON	IDE drvs using ext. buffer
VIRQ	OFF*	IRQ9 used f/ vertical retrace
	ON	IRQ9 not used f/ vertical retrace
VGA	OFF	Turns off VGA controller
	ON*	Turns on VGA controller
PASSWD	OFF	Turns on keyboard password
	ON*	Turns off keyboard password

\* Default

**I/O Card Jumpers**

Jumper	Position	Function
JMTR	uninstalled	use w/ std VGA monitors
	installed	use w/ hi-res VGA monitors
MA1	reserved	factory test jumper
G1		2-pin ground not used
G2		2-pin ground not used
G3		2-pin ground not used
J11		8-pin single line socket for system board analysis
J12		8-pin single line socket for system board analysis
J13		2-pin ground not used
J14		2-pin ground not used
J15		2-pin ground not used
J16		2-pin ground not used
J20		2-pin reset jumper

**System Board Chip Locations**

Location	Description
U34	Intel 486 processor
U35	Intel 8235-25 EISA bus controller
U36	Intel 82357 integrated system peripheral
U38	Intel 82352 EISA bus buffer
U98	Intel or Weitek coprocessor

**I/O Chip Locations**

Location	Description
U17	VGA controller
U35	Diskette controller
U61	Keyboard/mouse
UNVRAM	non-volatile RAM
URTC	real time clock
UVBIOS	video bios
USBIOS	system bios
U14	IDE controller

**Removal Procedures**

Before beginning removal complete the following steps.

1. Turn off the computer and any peripheral devices.
2. Disconnect AC power cord from the outlet and system
3. Disconnect all peripheral devices from the computer

**System Cover**

How to remove the cover

1. Unlock the security key lock horizontal position
2. Loosen 5 thumbscrews counterclockwise
3. Pull the cover towards the front of the system

## Field Replaceable Units

Memory	OEM Part	IBM Part
2MB SIMM	22125	22H2720
4MB SIMM	21559	48H8106
4MB SIMM	21618	48H8138
4MB SIMM	22126	22H2724
4MB SIMM 80ns	25192	22H2894
8MB SIMM	25191	22H3599
16MB SIMM	22130	48H8190
16MB SIMM	22131	22H2895

Controller	OEM Part	IBM Part
IDE dual cntl	60548	49H3809
Card dual HD/FD ESDI	16194	22H2857
SCSI Cntrl FS	35837	22H2816
HD, EISA/SCSI No Cache	31846	22H3116
Crđ, Mirror, Mod, EISA/SCSI	32162	22H2664
Crđ, cache .5M, EISA/SCSI	32160	22H2666
2MB Upgrade f/ EISA ctnl	20510	22H2668
EISA ESDI mem upgd 3.5MB	16156	22H2669
Dual 1003V-MM2	42059	48H2558
Dual HD/FD ESDI 1007	41531	48H2568
ESDI 120MHz 15bps	42761	22H2865
SCSI	63612	22H3579
150MB TBU cntrl	42062	22H2520
Cntrl, TBU 40/120MB CMS	19496	22H2555

### Internal Hard Drive

Size	OEM Part	IBM Part
330MB ESDI 5.25	42449	47H8330
650MB ESDI 5.25	42448	22H3012
40MB IDE 5.25	18816	22H2677
40MB IDE 5.25	42069	47H3875
40MB IDE 1:1	42425	48H1903
50MB IDE 5.25	17695	22H2679
80MB IDE CONNER	43200	68H2692
80MB IDE 5.25	19880	49H4942
100MB IDE	42070	47H3863
120MB IDE	29064	22H2683
170MB IDE 5.25	27542	22H2689
190MB 5.25 IDE	42763	22H2691
190MB IDE 5.25 Maxtor	43450	22H2692
230MB IDE 5.25 Maxtor	32814	22H2698
320MB IDE 5.25	30803	22H2700
320MB IDE (FS)	30666	22H2703
500MB IDE	19539	22H2706
200MB SCSI	25484	22H2708
330MB SCSI 5.25	29067	22H2710
650MB SCSI	43122	22H2712
700MB SCSI 5.25	35512	22H2714
1.4GB SCSI	17910	22H2716

CD ROM Drives	OEM Part	IBM Part
CD ROM internal	19875	22H2717

Microprocessors	OEM Part	IBM Part
WTK4167-25 425TE	21305	22H2671
WTK4167-33 433TE	21306	22H2866

System Bds.	OEM Part	IBM Part
425TE w/o BIOS/mem	60719	49H3822
425TE w/o BIOS/mem	60647	49H3814
425TE w/o BIOS/mem	60724	49H3821
425TE w/o BIOS/mem	60739	49H3823

Tape Drives	OEM Part	IBM Part
150/250 tape drive	14861	22H2735
150/250 external	17392	22H2518
adpt card f/ 40MB int/ext	41650	22H2519
40/120MB Int.	19493	22H3142
525MB	28860	68H1326
320/525MB int.	14259	22H2738
4GB DAT Int.	19994	22H2739
2/4GB DAT	16741	22H2808

Diskette Drives	OEM Part	IBM Part
3.5 & 5.25 Combo	27952	48H9208
5.25FS	26590	22H3290

Video Boards	OEM Part	IBM Part
1024/256 color	43072	22H2725
1024/16 color card	43073	22H2552
ATI Ultra video board	17696	22H2798
Vantage Video Board	18692	22H3457
Number 9 GXI	30472	22H2729

BIOS Upgrades	OEM Part	IBM Part
425TE (A08)	21935	66H7675
433TE (A08)	21932	48H7244

I/O Cards	OEM Part	IBM Part
425/433TE (21932 BIOS)	60679	49H3815

Cables	OEM Part	IBM Part
4 wire Y	40012	49H0670
Data ESDI	42935	66H9801
Floppy drive	42936	55H1151
Floppy 3 drive	43042	51H3517
Floppy drive	40471	49H0846
GPX 8'	42922	66H9800
Hard drive	40470	49H0845
Hard drive ESDI	42937	49H1551
Hard drive cntl IDE	42943	66H9802
Hard drive aux LED	42964	66H9805
Hard drive Data IDE card	42087	49H1509
Parallel printer	40019	55H1157
Power extension	42944	49H1553
Power 6ft	40079	22H2567
Power switch	42945	66H9803
Ribbon Wangtek	16637	48H7167
RAD cntrl	42949	66H9804
SCSI 425/433TE	43181	49H1570
Universal cbl, HD/FD/Data	40470	49H0845

Miscellaneous	OEM Part	IBM Part
Pwr supply 300watt	42187	49H1515
Pwr supply 350watt	17914	48H7371
2400bd int modem	43154	22H2740
9600bd int. w/ sw	29801	22H2822
Chip bd mnt, lithium batty	20610	47H4786