Service Manual

Simplified

Notebook Computer

CF-72



This is the Service Manual for the following areas.

T ...for Italy

Model Number Reference

The following models are numbered in accordance with the types of CPU, LCD and HDD etc. featured by product.

Model No. CF-72<u>1</u> <u>2</u> <u>3</u> RD4<u>5</u>

1: CPU type

T: for Intel® Mobile Pentium® III Processor-M 1.06 GHz

2: LCD type

C: for 13.3" TFT Color with Touchscreen

3: HDD type / RAM size

J: 30 GB / 256 MB

4: Operation System

F: Multi-Language (Microsoft® Windows® 2000)

<u>5</u>: Area

T: Refer to above area table

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



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WARNINGS

For U.K.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 3 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark \Leftrightarrow or the BSI mark \Leftrightarrow on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR

HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

Important

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol \perp .

The mains plug on this equipment must be used to disconnect the mains power.

Please ensure that a socket outlet is available near the equipment and shall be easily accessible.

How to replace the fuse

Open the fuse compartment with a screwdriver and replace the fuse.



Warnings

This equipment is not designed for connection to an IT power system.

(An IT system is a system having no direct connections between live parts and Earth; the exposed-conducive-parts of the electrical installation are earthed.

An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)

Disconnect the mains plug from the supply socket when the computer is not in use.

This equipment is produced to BS800/1983.

LASER SAFETY INFORMATION

For U.S.A.

Class 1 LASER-Product

This product is certified to comply with DHHS Rules 21 CFR Subchapter J.

This product complies with European Standard EN60825 (or IEC Publication 825)

For all areas

This equipment is classified as a class 1 level LASER product and there is no hazardous LASER radiation.

Caution:

- (1) Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- (2) The drive is designed to be incorporated into a computer-based system or unit which has an enclosing cover. It should never be used as a stand alone drive.

Danger:

The serviceman should not remove the cover of drive unit and should not service because the drive unit is a non-serviceable part.

Please check DANGER label on PD-drive unit.

- · Unplug the AC power cord to the equipment before opening the top cover of the drive.
- When the power switch it on, do not place your eyes close to the front panel door to look into the interior of the unit.

LASER Specification

Class 1 level LASER Product

Wave Length: DVD $658 \pm 8 \text{ nm}$

CD 775~815 nm

Laser safety information is appropriate only when drive with laser is installed.

- LITHIUM BATTERY riangle -

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacture.

Discard used batteries according to the manufacturer's instructions.

LITHIUMBATTERIES A-

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben order einen vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

PILE AU LITHIUM 🛆 -

ATTENTION: IL Y A DANGER D'EXPLOSION S' IL Y A REMPLACEMENT INCORRECT DE LA PILE. REMPLACER UNIQUEMENT AVEC UNE PILE DU MÈME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES PILES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

Replacement Parts List Comparison Table

Note: Important Safety Notice

Components identified b mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

CF-72TCJRDFT

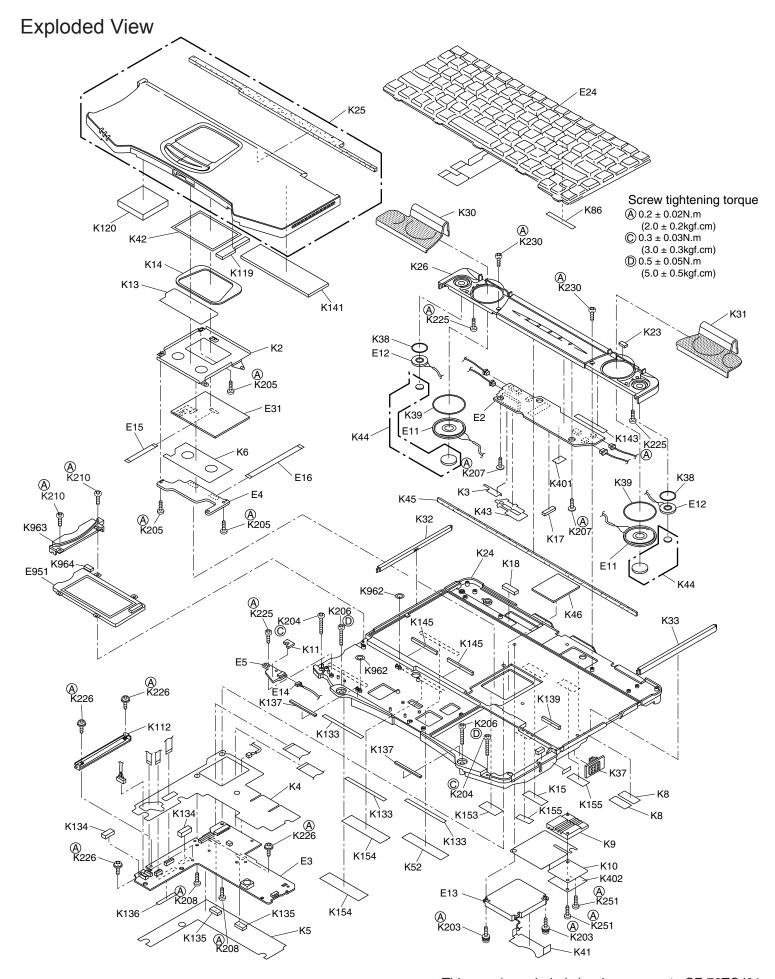
REF. NO. and	PAR	ΓNO.	DESCRIPTION		Q'TY
AREA	CF-72TCJUZxM	CF-72TCJRDFT			-
Main Block Unit	01 121000 <u>2</u> XIII	0. 12.002. 1			
E1	DL3U11156CAA	DL3U11156DAA	PCB, MAIN	RTL	1
E 24 (M)	DFSX1A71UATG		KEYBOARD		1->0
E 24 (T)		DFSX1A75UATG	KEYBOARD		1
E 47	DL2BA1092FAA		DVD UNIT		1
E 47-1	DFWV78A0147		DRIVE, DVD		1
E 47-2	DFJE50N035BH		FPC		1
E 47-3	DL3U11130AAA		PCB, CONNECTOR (A)	RTL	1
E 47-4	DL3U21130AAA		PCB, CONNECTOR (B)	RTL	1
E 47-5	DFMD3064YA		PLATE, DVD		1
E 47-6	DFMX0501YA		INSULATION, PCB, DVD		1
E 47-7	DFMX0561YA		INSULATION SHEET, MP-CN		1
E 47-8	DFHG1161ZA		CONTROL, CONNECTOR		1
E 47-9	DFHE7007ZA		DVD KEY		2
E 47-10	DFKM0253XB-0		CAB, DVD TOP		1
E 47-11	DFGE0027YA		CHASSIS, DVD		1
E 47-12	DFHR7614ZA		SPACER, DVD		1
E 47-13	LMYP0445		BEZEL, DVD		1
	DFGT0834ZA		RATING LABEL		1
E 47-15	JDLB0007ZA		SCREW		2
E 47-16	DFHM0177YA		SCREW		2
E 47-17	DFHE5067YA		SCREW		2
E 47-18	DFHE5086ZA		SCREW		2
E 48	DL1BA1132AAA		FDD UNIT		1
E 48-1	DFJG065ZA-T		DRIVE, FD		1
E 48-2	DFJE9071ZAH		FPC		1
E 48-3	DFMD2113ZA		PLATE, FDD		2
E 48-4	DFMX0561YA		INSULATION SHEET, MP-CN		1
E 48-5	DFDB0004XA		DUMPER		4
E 48-6	DFHM0176ZA		NUT, FDD		2
E 48-7	DFHE0118ZB		GASKET		1
E 48-8	DFKM0253YB-0		CABINET, FDD		1
E 48-9	DFGL0018ZC-3		LENS, LED		1
E 48-10	DFGE0027ZA		CHASSIS		1
E 48-11	DL3UP0982AAA		PCB, FDD	RTL	1
E 48-12	DFQT6234ZA		CAUTION LABEL		1
E 48-13	XYN26+J4FN		SCREW		4
E 48-14	XTB26+6GFN		SCREW		4
E900		N1AA91000006	ANTENNA, ELEMENT		1
E901		DL3MA0150AAA	ASS'Y, ANTENNA		1
E904		K1YBZZ000015	SIM CARD HOLDER		1
E905		K1SZZZAZ0004	CONNECTOR		1
E920		DL3UP1175AAA	PCB, WIRELESS	RTL	1
E921		N5HZZ0000015	GPRS MODULE		1
E922		DFJS762ZA	CABLE		1
E923		DFJE40M20HB	FFC, GPRS		1
E951		K1NA10Z00001	SMART CARD SOCKET		1

Accessories				
	DFJA0047ZAKK		AC CABLE	1->0
A3 (T) 🛆		DFJA0044ZAKK	CABLE, AC	1
A 5(M)	DFQX5280ZB		OPERATING INSTRUCTIONS	1->0
A 5 (T) 🛆			TRUCTION MANUAL	1
			Computer Products Europe (CPE) written be	
Matsushita Ele	ectric (U.K.) Ltd. Co	mputer Products E	Europe (CPE) TEL: +44-1222-736060 FAX: -	+44-
1222-735500				
Mechanical Parts				
K 50	DFKE0570YA-0		COVER, SLOT, PALM	1
K51	DFKF8127XB-0	DFKF8127WB-0	ASS'Y, CASE, PCB	1
K70	DFKE0661ZA-0		COVER, N, ANTENNA	1->0
K 104 (M)	DFGT0812ZA		LABEL-M, UNIT	1->0
K 104 (T)		DFGT0811ZA	LABEL-EU, UNIT	1
K 429	DFQT9675ZAT		LABEL, ENERGY STAR	1->0
K900		DFMX0833ZA	HOLDER, INVERTER CABLE	3
K901		DFMD2130WA	PLATE, CONFIG, LAN/WL	1
K903		DFMD7691UA	ANGLE, GPRS	1
K904		DFMZ0034ZA	LED INSULATOR	1
K905		XTN2+6G	SCREW	1
K907		DFHE5020XA	SCREW	2
K908		DFHE5025XA	SCREW	5
K909		DFGX0282ZA-0	WIRELESS INDICATOR	1
K910		DFGX0292ZA	RIM IND DUMMY	1
K911		DFHR8381ZA	JACK INSULATOR	1
K912		DFHR8384ZA	SPACER, BUS	1
K913		DFHG1457ZA	SPACER, CABLE	2
K916		DFKE0662ZA-0	ANTENNA COVER C	1
K920		DFHP7127ZA	TAPE	1
K921		DFQT9791ZA	CE LABEL	1
K922		DFHE0527ZA	GASKET	1
K923		DFMD7881ZA	ANGLE, GPRS	1
K924		DFMX0960ZA	SHEET, FFC	1
K925		DXQT2+D25FNM	SCREW	7
K926		DFHE0621ZA	SPACER	1
K962		DFHE6015ZA	SPACER	2
K963		DFKE0699ZA-0	SMART CARD BEZEL	1
K964		DFBC0295ZA-0	EJECT KNOB	1
K965		DFHR9058ZA	PROTECTION FILM, TS PANEL	1

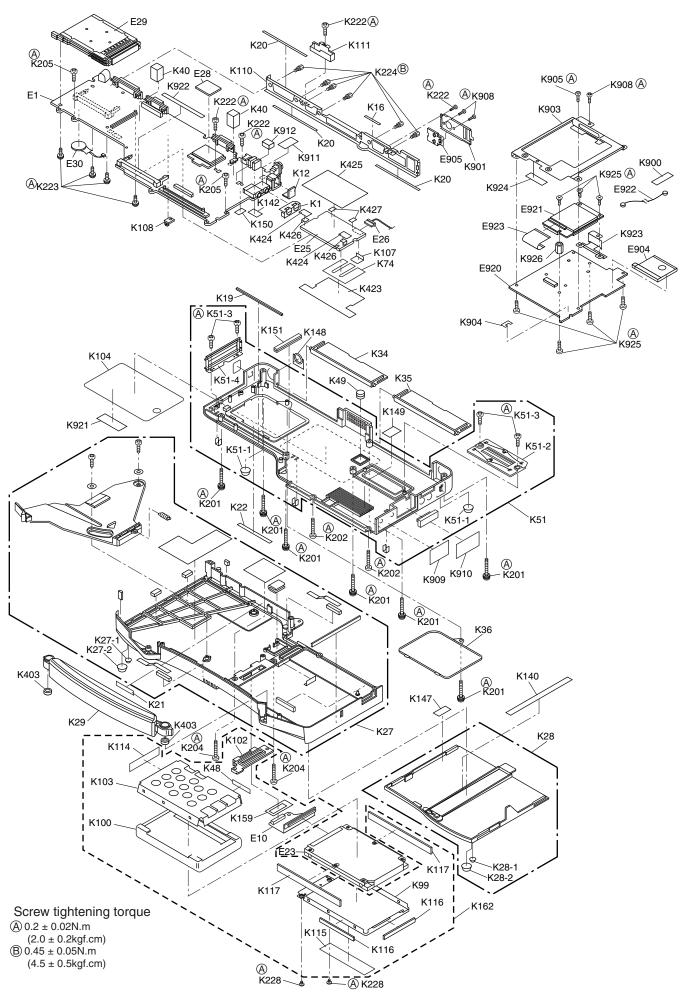
CD-R/RW Drive

REF. NO. and	PART NO.		DESCRIPTION	Q'TY		
AREA	CF-72TCJUZxM	CF-72TCJRDFT				
Main Block Unit	•					
E1		DL3U11130BAA	PCB, CONNECTOR (A) RTL	1		
E2		DFWV48C0591	PCB, CONNECTOR (B) RTL	1		
E3		DFJE50N035BH	FPC	1		
E4		DFWV78A0162	DRIVE, CD-R/RW	1		
E4-1		UJSJDYP0110	BEZEL, CD-R/RW	1		
E4-2		JDLB0007ZA	SCREW, BEZEL	3		
Mechanical	Mechanical					
K1		DFKM0253WA-0	CABINET, TOP	1		
K2		DFGE0027WA	CHASSIS	1		
K3		DFMD3064XA	CLAMP, CD-R/RW DRIVE	1		
K4		DFMX0561YA	SHEET, INSULATION, CONNECTOR PCB	1		
K5		DFHE7007ZA	CD KEY	2		

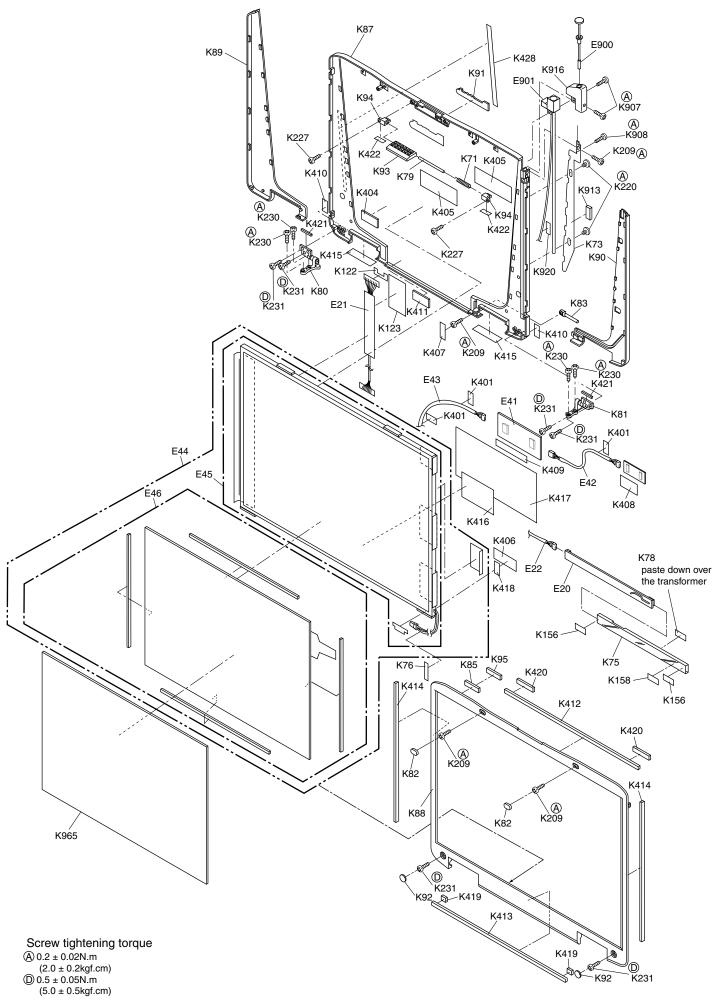
K6 △		DFGT0892ZA	RATING LABEL	1	
K7		DFUS0244XA	EARTH SPRING (A)	1	
K9		DFMX0501YA	SHEET, INSULATION	1	
K10		DFHR7614ZA	SPACER (1)	1	
K101		DFHM0177YA	SCREW	2	
K102		DXQT2+D25FNM	SCREW	2	
K103		DFHE5086ZA	SCREW	2	
Connector (A) PCB					
CN101		DFJS250YA160	CONNECTOR, EXPANSION BUS	1	
CN102		DFJS120ZA050	CONNECTOR, FOR CONNECTOR (B) PCB	1	
Connector (B) PCB					
CN201		DFJS315XA050	CONNECTOR, FOR CD-R/RW DRIVE	1	
CN202		DFJS120ZA050	CONNECTOR, FOR CONNECTOR (A) PCB	1	



This page's exploded view is common to CF-72TCJ01



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CD-R/RW Drive

