ORDER NO. CPD2609248CE

Service Manual

Personal Computer

Model No. FZ-56mk1 Series

TOUGHBOOK

Parts List

DISCLAIMER

This repair information is provided to support maintenance and repair of Panasonic products. Repair procedures may involve disassembly of electrical and electronic components and should be performed only by persons with appropriate technical knowledge, skills, tools, and safety precautions.

Improper repair, modification, or handling of the product may result in personal injury, electric shock, fire, data loss, product malfunction, or other property damage.

Before starting any repair work, ensure that proper electrostatic discharge (ESD) protection measures are in place to prevent damage to electronic components.

Repair procedures, required parts, and product configurations may vary depending on the model, region, or product specification. The procedures and illustrations provided in this document are intended as general guidance and may not represent all product variations.

Panasonic does not assume responsibility for any injury, loss, damage, cost, expense, or product failure arising from repairs, modifications, or servicing performed by users or third parties. Any repair work is performed at the sole risk and responsibility of the person carrying out the repair.

Required Tool:
Refer to the section "Required tools" in the website of "Repair Information and Manual for FZ-56."

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Replacement Parts List

Note 1 : Important Safety Notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Note 2 : NRP is not reusable parts.
NRP stands for "non-reusable part"; once removed, such a part cannot be reused and must be replaced with a new one.
Therefore, when replacing the target component, you must prepare not only the main part itself but also the necessary new NRPs.

FZ-56B0101BM

REF. NO and AREA	PART NO.	DESCRIPTION		Q'TY
1. Battery				
⚠	FZ-VZSU1HU	BATTERY PACK (Accessory model number)		1
E55 ⚠	CR-2032/K5GB	BATTERY (Coin battery)		1
E1-1 ⚠	DHMX1594YA	IO UPGRADE FIX SHEET	NRP	1
E1-12	DHHX3339ZA	LCD CABLE CN FIX CUSHION	NRP	1
E1-13	DHHX3401ZA	BOTTOM FPC CN FIX SHEET	NRP	1
K207	DHHX3292ZA	WLAN CN FIX SHEET	NRP	1
K209 ⚠	DHMC1679ZA	WIFI NOISE REDUCTION SHEET A	NRP	1
K212	DHHX1995ZA	ANT CABLE BLIND SHEET	NRP	1
2. RAM				
	FZ-BAZ2416	DDR5 SODIMM (Accessory model number)		1
3. SSD				
	FZ-VSD560T1	SSD Pack (Accessory model number)		1
4. Keyboard				
E53	N2ABZY001157	FM241 BACKLIT KBD US	NRP	1
E60 ⚠	DHLD1426ZB	KBD_EXTENSION_FPC		1
K54	1ZE10226AAA	KBD CN PLATE KD DISPENSE ASSY		1
K55	DFHR3X65ZBT	10 30 SHEET	NRP	2
K59 ⚠	DHKE1310ZA1	HINGE COVER		2
N1	DRHM0229XAT	SCREW_M2_NYLOK		4
N2	DRQT26+E4KYT	SCREW_M2.6_NYLOK		2
5. Ports and connectors				
E1-13	DHHX3401ZA	BOTTOM FPC CN FIX SHEET	NRP	1
E204 ⚠	DHLD1420ZC	DOCK_FPC_UNIT		1
K204 ⚠	DHKE1294ZA1	DOCKING CN COVER		1
K217 ⚠	DHYE1167ZA1	CONFIG COVER ASSY		1
N2	DRQT26+E4KYT	SCREW_M2.6_NYLOK		2
6. LCD display panel or display assembly				
E301 ⚠	DHWD1284ZA	LCD TS CABLE		1
K59 ⚠	DHKE1310ZA1	HINGE COVER		2
K301	DFWV47H0316	LCD ASSY (TS)		1
K301-1	DHHG1189ZA	LCD RUBBER	NRP	6
K301-2	DHMX1642ZA	TP PCB INSU SHEET	NRP	1
K302	DHGE1494ZA1	SHUTTER SLIDER		1
K303	DHYP1004ZA1	SHUTTER SLIDER COVER ASSY		1
N3	DRQT26+E6KYT	SCREW_M2.6_NYLOK		13
7, 9, PCB system/ motherboard, peripheral boards *fan/cooling radiator				
E1	DFWQ1722AAAP	MAIN PCB UNIT (Ultra 5 with WLAN)		1
E1-1 ⚠	DHMX1594YA	IO UPGRADE FIX SHEET	NRP	1
E1-2	DHHX3476ZA	LEFT EX FPC FIX SHEET	NRP	1
E1-5	DHHX1613ZA	SUPPORT CUSHION TAB	NRP	1
E1-7	DHHX3396ZA	PROTECT SHEET PCB	NRP	1
E1-8 ⚠	DHMX1595ZA	MAIN PWB INSU TOP SHEET	NRP	1
E1-9	DHMH1173ZA	AUDIO CN SLEEVE TAB		1
E1-10 ⚠	DHMX1592ZA	MAIN PWB INSU BOTTOM SHEET	NRP	1
E1-12	DHHX3339ZA	LCD CABLE CN FIX CUSHION	NRP	1
E1-13	DHHX3401ZA	BOTTOM FPC CN FIX SHEET	NRP	1
K1	DHHX1996ZA	DIMM FIX SHEET	NRP	1
K206	DHQT1383XA	GML LABEL	NRP	1
K207	DHHX3292ZA	WLAN CN FIX SHEET	NRP	1

K208	DHHX3344ZA	DUALPASS CN SHEET 2	NRP	1
K209 ⚠	DHMC1679ZA	WIFI NOISE REDUCTION SHEET A	NRP	1
K212	DHHX1995ZA	ANT CABLE BLIND SHEET	NRP	1
N4	DRHM0131VAT	SCREW_M2_NYLOK		10
8, 10 external power connector, external/internal PSU or changer attached				
A1 ⚠	CF-AA5713AM9	AC ADAPTOR		1
A2 ⚠	K2CG3YY00188	AC CORD		1
E1-1 ⚠	DHMX1594YA	IO UPGRADE FIX SHEET	NRP	1
E1-12	DHHX3339ZA	LCD CABLE CN FIX CUSHION	NRP	1
E1-13	DHHX3401ZA	BOTTOM FPC CN FIX SHEET	NRP	1
E57 ⚠	DHJR1025ZA	DC JACK CABLE		1
K56	DHGE1487ZA1	DC SLIDE COVER		1
K78	DHHX3433ZA	DC JACK HOLDER CUSHION	NRP	1
K83 ⚠	DHKJ1022ZA1	DC JACK HOLDER		1
K207	DHHX3292ZA	WLAN CN FIX SHEET	NRP	1
K209 ⚠	DHMC1679ZA	WIFI NOISE REDUCTION SHEET A	NRP	1
K212	DHHX1995ZA	ANT CABLE BLIND SHEET	NRP	1

Main Board Block				
E1		DFWQ1722AAAP	MAIN PCB UNIT (Ultra 5 with WLAN)	1
E1-1	⚠	DHMX1594YA	IO UPGRADE FIX SHEET NRP	1
E1-2		DHHX3476ZA	LEFT EX FPC FIX SHEET NRP	1
E1-4		DHMY1179ZA	HEAT RADIATION SHEET NRP	1
E1-5		DHHX1613ZA	SUPPORT CUSHION TAB NRP	1
E1-6	⚠	L6FCYYYD0071	MPU COOLING FAN	1
E1-7		DHHX3396ZA	PROTECT SHEET PCB NRP	1
E1-8	⚠	DHMX1595ZA	MAIN PWB INSU TOP SHEET NRP	1
E1-9		DHMH1173ZA	AUDIO CN SLEEVE TAB	1
E1-10	⚠	DHMX1592ZA	MAIN PWB INSU BOTTOM SHEET NRP	1
E1-12		DHHX3339ZA	LCD CABLE CN FIX CUSHION NRP	1
E1-13		DHHX3401ZA	BOTTOM FPC CN FIX SHEET NRP	1
E1-14		DRHM0229XAT	SCREW_M2_NYLOK	3
E2		N5ZZ00000657	DDR5 SODIMM	1
K1		DHHX1996ZA	DIMM FIX SHEET NRP	1
TOP Case Block				
E51		2PB11722AAA	POWER SW PCB SUB UNIT	1
E52		3PB11722AAA	PAD CLICK PCB SUB UNIT	1
E53		N2ABZY001157	FM241 BACKLIT KBD US	1
E54	⚠	DHLD1415ZB	RSSD_FPC_UNIT	1
E55	⚠	CR-2032/K5GB	BATTERY	1
E56	⚠	DHJE1089ZA	POWER SW FFC	1
E57	⚠	DHJR1025ZA	DC JACK CABLE	1
E58	⚠	DHLD1168ZC	BATTERY FPC	1
E59	⚠	DHLD1416ZD	PAD_FPC	1
E60	⚠	DHLD1426ZB	KBD_EXTENSION_FPC	1
E61		L0EYAB000003	SPEAKER	1
E62		N2EZYYY00039	TOUCHPAD	1
E63	⚠	DHLD1164ZC	UPGRADEPOCKET FPC UNIT	1
E64	⚠	DHLD1165ZC	CONFIGIO FPC	1
K51		DFHR6731ZA	CAM LATCH	1
K52		DHGE1503ZA1	PEN HOLE CAP	1
K53		DHHR1593ZA	PEN SLIDE PARTS	1
K54		1ZE10226AAA	KBD CN PLATE KD DISPENSE ASSY	1
K55		DFHR3X65ZBT	10 30 SHEET NRP	2
K56		DHGE1487ZA1	DC SLIDE COVER	1
K57		DHHG1191ZA	CABLE WP BUSH	2
K58	⚠	DHKE1298ZA1	FAN LOUVER	1
K59	⚠	DHKE1310ZA1	HINGE COVER	2
K60		DHHG1192ZA	POWER SW BUTTON	1
K61		DHHP1255ZA	FRONT LED FIX TAPE NRP	1
K62		DHHP1276ZA	SPEAKER CABLE HOLD TAPE 1 NRP	1
K63		DHHP1277ZA	SPEAKER CABLE HOLD TAPE 2 NRP	1
K64		DHHP1278ZA	SPEAKER CABLE HOLD TAPE 3 NRP	1
K65		DHHP1279ZA	SPEAKER CABLE HOLD TAPE 4 NRP	2
K66		DHHP1291ZA	SPEAKER HOLD TAPE NRP	2
K67		DHHP1292ZA	BATT CN HOLD TAPE NRP	2
K68		DHHR1572ZA	SSD RELAY FPC HOLDER	1
K69		DHHR1584ZA	BATT CN HOLDER	2
K70		DHHX1584ZB	CABLE PROTECTION SHEET KC NRP	1
K71		DHHX1975ZA	PET SHEET 10X10 NRP	1
K72		DHHX1978ZB	PAD FIX TAPE NRP	1
K73		DHHX3194ZA	RSSD DOCK FPC FIX TAPE NRP	2
K74		DHHX3210ZA	CLICK BUTTON WP SHEET NRP	1
K75		DHHX3289ZA	RSSD FPC BLIND SHEET NRP	1
K76		DHHX3399ZA	BATT FPC ANTI NOISE CUSHION NRP	2
K77		DHHX3429ZA	KBD SUPPORT CUSHION NRP	1
K78		DHHX3433ZA	DC JACK HOLDER CUSHION NRP	1
K79		DHHX3444ZA	LEFT EXP DOC CN CUSHION NRP	1
K80		DHHX3450ZA	PAD IC SPACER NRP	1
K81	⚠	DHKE1311ZA1	CLICK BUTTON	1
K82	⚠	DHKE1335ZA1	PEN HOLDER	1
K83	⚠	DHKJ1022ZA1	DC JACK HOLDER	1
K84		DHMC1359ZA	PAD GASKET (W4XH3XL4) NRP	1

K85	DHMC1513YA	HEAT PIPE GASKET	NRP	2
K86 ⚠	DHMC1656ZA	HDMI GASKET 5X4X4	NRP	2
K87 ⚠	DHYE1165ZA1	TOP CASE ASSY		1
K88 ⚠	DHHR1298ZA	UPGRADE RELAY COMN COVER		1
K89 ⚠	DHHR1299ZA	UPGRADE RELAY FPC HOLDER		1
K90	DHYE1064ZA	IO PACK RELAY FPC HOLDER ASSY		1
K91	DHQT1451ZA	CORE ULTRA 5 VPRO ENTERPRISE ARL SMALL LABEL	NRP	1
K93	DHHX3484ZA	TOP BATTERY CUSHION	NRP	4
N1	DRHM0229XAT	SCREW_M2_NYLOK		6
N2	DRQT26+E4KYT	SCREW_M2.6_NYLOK		4
N3	DRQT26+E6KYT	SCREW_M2.6_NYLOK		13
N4	DRHM0131VAT	SCREW_M2_NYLOK		11
N5	DRSB3+55FKMT	SCREW		6

Bottom Case Block				
E201		4PB11722AAA	BATT DETECT PCB SUB UNIT	1
E202		5PB11722AAA	DUALPASS PCB SUB UNIT	1
E203	⚠	DHLD1430ZB	BATGADGET_FPC	1
E204	⚠	DHLD1420ZC	DOCK_FPC_UNIT	1
K69		DHHR1584ZA	BATT CN HOLDER	1
K71		DHHX1975ZA	PET SHEET 10X10 NRP	1
K201	⚠	DHYE1166ZA1	BOTTOM CASE ASSY	1
K202		DHHR1570ZA	BOTTOM HOLDER	1
K203		DHHX1970ZA	FAN NET MAIN	1
K204	⚠	DHKE1294ZA1	DOCKING CN COVER	1
K205	⚠	DHHR1306ZB	EXT ANTENNA COVER	1
K206		DHQT1383XA	GML LABEL NRP	1
K207		DHHX3292ZA	WLAN CN FIX SHEET NRP	1
K208		DHHX3344ZA	DUALPASS CN SHEET 2 NRP	1
K209	⚠	DHMC1679ZA	WIFI NOISE REDUCTION SHEET A NRP	1
K210	⚠	DHYE1168ZA1	MEMORY COVER 1 ASSY	1
K211	⚠	DHGT1821ZA	RATED LABEL NA NRP	1
K212		DHHX1995ZA	ANT CABLE BLIND SHEET NRP	1
K213	⚠	DHKE1116ZB1	ANTENNA CABLE COVER	1
K214		DHYH1007ZA1	HANDLE ASSY	1
K215		DFQT0058YA	SERIAL LAMINATE SHEET NRP	1
K216		DHHR1573ZA	SIM COVER	1
K217	⚠	DHYE1167ZA1	CONFIG COVER ASSY	1
N1		DRHM0229XAT	SCREW_M2_NYLOK	6
N2		DRQT26+E4KYT	SCREW_M2.6_NYLOK	5
N3		DRQT26+E6KYT	SCREW_M2.6_NYLOK	11
N4		DRHM0131VAT	SCREW_M2_NYLOK	2
N6		DRYN26+J8KYT	SCREW_M2.6_NYLOK	6
N7		DRHM0229ZAT	SCREW	1
SSD Block				
E271		0PB11746AAA	SSD PCB UNIT	1
E272	⚠	N3ZA00000437	SOLID STATE DRIVE	1
K271	⚠	DHGT1826ZA	RSSD PACK RATED LABEL (OPAL) NRP	1
K272	⚠	DHKE1297ZA1	RSSD CASE OUTER	1
K273		DHQT1246ZA	LAMINATE SHEET NRP	1
K274	⚠	DHYE1163ZA1	R-SSD CASE INNER ASSY	1
N8		DRHM0219ZA	SCREW	1
N9		DRHM0177ZAT	GIZATITE 2X6	4
LCD Front Block				
E301	⚠	DHWD1284ZA	LCD TS CABLE	1
K301		DFWV47H0316	LCD ASSY (TS)	1
K301-1		DHHG1189ZA	LCD RUBBER	6
K301-2		DHMX1642ZA	TP PCB INSU SHEET	1
K302		DHGE1494ZA1	SHUTTER SLIDER	1
K303		DHYP1004ZA1	SHUTTER SLIDER COVER ASSY	1
N3		DRQT26+E6KYT	SCREW_M2.6_NYLOK	13
LCD Rear Block				
E351	⚠	DHWD1266ZA	CAMERA CABLE	1
E352		N2JCA0000196	CAMERA MODULE	1
E353	⚠	N1ZYYY000453	WWAN MAIN LDS ANTENNA	1
E354	⚠	N1ZYYY000454	WWAN AUX PCB ANTENNA	1
E355	⚠	N1ZYYY000455	WWAN 3RD PCB ANTENNA	1
E356	⚠	N1ZYYY000456	WWAN 4TH PCB ANTENNA	1
E357	⚠	N1ZYYY000457	WLAN PCB ANTENNA	1
K209	⚠	DHMC1679ZA	WIFI NOISE REDUCTION SHEET A NRP	1
K351		DHHX3205ZA	MIC CUSHION NRP	2
K352		DHHX3208ZA	IR LIGHT BLOCK CUSHION NRP	2
K353		DHMC1550ZA	GASKET_51HW5H6.5_5 NRP	2
K354		DHHN1016ZA	MAGNET	1
K355		DHHX3435ZA	PROTECT SHEET NRP	2
K356		DHHR1577ZA	ANTENNA CABLE HOLDER	1
K357		DHMC1113ZA	LCD CABLE SHIELD SHEET NRP	1
K358	⚠	DHYE1160ZA1	REAR CASE ASSY	1
N1		DRHM0229XAT	SCREW_M2_NYLOK	13

Right Expansion Block			
K401	DHKE1287ZA1	2ND BATT GADGET BLANK	1
Left Expansion Block			
K451 ⚠	DHKE1110XA1	UPGRADE PACK BLANK COVER	1
Right Security Block			
K501 ⚠	DHKE1303ZA1	RIGHT SECURITY CASE BLANK	1
N2	DRQT26+E4KYT	SCREW_M2.6_NYLOK	2
Rear Expansion Block			
K551	DHKE1313ZA1	IO BLANK COVER	1
N2	DRQT26+E4KYT	SCREW_M2.6_NYLOK	2
AC Adaptor and Code Block			
A1 ⚠	CF-AA5713AM9	AC ADAPTOR	1
A2 ⚠	K2CG3YY00188	AC CORD	1
Battery Block			
A21 ⚠	N4HUNSA00134	BATTERY PACK	1