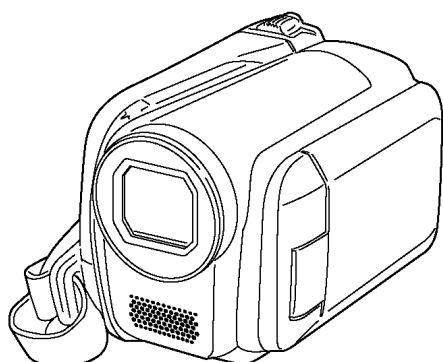


Service Manual

SD Card / Hard Disk Video Camera



Model No. **SDR-H50EB**

SDR-H50EE

SDR-H50EF

SDR-H50EG

SDR-H50EP

SDR-H50E

SDR-H50GC

SDR-H50GJ

SDR-H50GT

SDR-H60P

SDR-H60PC

SDR-H60PL

SDR-H60EB

SDR-H60EE

SDR-H60EF

SDR-H60EG

SDR-H60EP

SDR-H60E

SDR-H60GC

SDR-H60GJ

SDR-H60GN

SDR-H68GK

VOL.1

Colour

(S).....Silver Type

Please use this manual together with the service manual for Model No.SDR-H40, Order No.VM0712053CE.

Panasonic®

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 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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1 Replacement Parts List (SDR-H50)

1.1. Frame & Casing Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	LSEP8445A1	FRONT P.C.B.	1	(RTL)
1-1	LSMA1039	FRONT ANGLE	1	
1-2	LSMG0190	MIC DAMPER	1	
2	LSYK2330	OPERATION U	1	
3	LSYK2350	FRONT/TOP U	1	
5	LSYK2352	GRIP U	1	
B3	XQN16+BJ4FN	SCREW	1	
B4	XQN16+BF4FN	SCREW	1	
B5	XQN16+BF4FN	SCREW	1	
B6	XQN16+BF4FN	SCREW	1	
B7	XQN16+BF4FN	SCREW	1	
B8	XQN16+BF4FN	SCREW	1	
B9	XQN16+BF4FN	SCREW	1	
B10	XQN16+BF4FN	SCREW	1	
B11	XQN16+BF4FN	SCREW	1	
B12	XQN16+BF4FN	SCREW	1	
B13	XQN16+BF4FN	SCREW	1	
B14	XQN16+BF4FN	SCREW	1	
B15	XQN16+BJ5FN	SCREW	1	
B18	XQN16+BJ5FN	SCREW	1	
B19	XQN16+BJ5FN	SCREW	1	
B20	XQN16+BJ5FN	SCREW	1	
B21	XQN16+BJ5FN	SCREW	1	
B22	XQN16+BJ5FN	SCREW	1	
B12	XQN16+BJ5FN	SCREW	1	
101	LSEP8443S1	MAIN P.C.B.	1	(RTL) EB, EE, EF, EG, EP, E, GC, GJ
101	LSEP8443E1	MAIN P.C.B.	1	(RTL) GT
102	LSJB8451	HDD RELAY FPC	1	
103	LSMG0196	HDD CUSHION	1	
104	LSMG0196	HDD CUSHION	1	
105	LSSC1029	HDD SHIELD CASE	1	
106	LSVQ0122	HDD	1	
107	LSYK2320	MAIN PLATE U	1	
110	LSJB8450	FRONT FPC	1	
111	LSEP8444A1	SD P.C.B.	1	(RTL)
112	LSJB8448	SD FPC	1	
113	L0AA02A00083	LOUDSPEAKER	1	
114	LSYK2333	SIDE L CASE U	1	
115	LSEK0838	BATTERY TERMINAL U	1	
116	LSMA1040	SPEAKER ANGLE	1	
B101	XQN16+BF4FN	SCREW	1	
B102	XQN16+BF4FN	SCREW	1	
B103	XQN16+BF4FN	SCREW	1	
B104	XQN16+BF4FN	SCREW	1	
B105	XQN16+BF4FN	SCREW	1	
B106	XQN16+BF4FN	SCREW	1	
B109	XQN16+BJ5FN	SCREW	1	
B110	XQN16+BJ5FN	SCREW	1	
B111	XQN16+BJ5FN	SCREW	1	
B112	XQN16+BJ5FN	SCREW	1	

1.2. LCD Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
201	LSEP8449A1	LCD SHAFT FPC	1	
202	LSXA0946	SHAFT U	1	
203	LSMD0880	SHAFT SW HOLDER	1	
204	LSKM1688	SHAFT CASE A	1	
205	LSKM1689	SHAFT CASE B	1	
206	LSKM1690	LCD CASE B	1	
207	LSSC1057	LCD SHIELD CASE	1	
208	LSXY1249	PANEL HOLDER u	1	
209	LSGL1523	BEF SHEET A WIDE	1	
210	LSGL1524	BEF SHEET B WIDE	1	
211	LSGL1525	DIFFUSION SHEET WIDE	1	
212	LSGL1526	LEAD LIGHT PANEL	1	
213	LSGL1527	REFLECT SHEET WIDE	1	
214	L5BDDXH00032	LCD	1	
215	LSEP8433B1	LCD BACKLIGHT P.C.B.	1	(RTL)
216	LSYK2434	LCD CASE A U	1	EB, EE, EF, EG, EP, E, GC, GJ
216	LSYK2323	LCD CASE A U	1	GT
B201	LSHD0130	SCREW	1	

1.3. Camera Lens Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
401	LSXN0053	LENS U	1	
401-1	L6HA66NB0009	ZOOM MOTOR U	1	
401-2	L6HA66NB0010	FOCUS MOTOR U	1	
401-3	LSEM0111	IRIS U	1	
402	LSDW0122	CCD CASE	1	
403	LSEP8447B1	CCD FPC	1	EB, EE, EF, EG, EP, E, GC, GJ
403	LSEP8447A1	CCD FPC	1	GT
404	LSFL0292	OPTICAL LPF	1	
405	VMX3282	CCD CUSHION RUBBER	1	
B401	LSHD0136	SCREW	1	
B402	LSHD0136	SCREW	1	
B403	XQN16+BJ4FN	SCREW	1	
B404	XQN16+BJ4FN	SCREW	1	
B405	XQN16+BJ4FN	SCREW	1	
B406	XQN16+BJ4FN	SCREW	1	
B407	XQN16+BJ4FN	SCREW	1	

1.4. Packing Parts & Accessories Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
501	LSPG2656	PACKING CASE	1	EB,EF,EG,E
501	LSPG2659	PACKING CASE	1	EE
501	LSPG2657	PACKING CASE	1	EP
501	LSPG2658	PACKING CASE	1	GC,GJ
501	LSPG2660	PACKING CASE	1	GT
502	LSPN0886	PAD	1	
504	DE-A51CA	AC ADAPTOR	1	EB,EE,EF,EG,E P,E,GC,GJ Δ
504	DE-A51EA	AC ADAPTOR	1	GT Δ
505	K2CT3CA00004	AC CORD	1	EB,GC Δ
505	VJA0664	AC CORD	1	EE,EF,EG,EP,E ,GC
505	K2CP2YY00001	AC CORD	1	GJ Δ
505	K2CA2CA00028	AC CORD	1	GT
506	K1HA05CD0016	USB CABLE	1	
507	K2KZ9CB00002	AV CABLE	1	
508	LSFT0758-R	CD-ROM	1	EB,EE,EF,EG,E P,E,GC,GT
508	LSFT0758	CD-ROM	1	GJ
509	LSPF0107	POLY BAG	1	
510	LSQT1340-A	O/I	1	GT
510	LSQT1341-B	O/I	1	EG
510	LSQT1342-B	O/I	1	EG
510	LSQT1343-B	O/I	1	EF
510	LSQT1344-B	O/I	1	E
510	LSQT1345-B	O/I	1	E
510	LSQT1346-B	O/I	1	EP
510	LSQT1347-B	O/I	1	EP
510	LSQT1348-B	O/I	1	EB
510	LSQT1399-A	O/I	1	GC,GJ
510	LSQT1400-A	O/I	1	GC
510	LSQT1401-A	O/I	1	GC
510	LSQT1405-B	O/I	1	EE
511	K2GJ2DC00022	DC CABLE	1	
512	LSPN0899	BOTTOM PAD	1	

1.5. Electrical Replacement Parts List

Note: 1. Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE: Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

3. Unless otherwise specified,

All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=ufF.

4. The P.C. Board units marked with "■" show below the main assembled parts.

5. The marking (RTL) indicates the retention time is limited for this item.

After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	LSEP8444A1	SD P.C.B.		(RTL)
BT7001	ML-621S/F9DE	BATTERY	1	Δ
C6301	F3G0J107A017	C.CAPACITOR CH 6.3V 100U	1	
C6302	ECJ1VB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6303	ECJ1VB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6306	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6307	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6308	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6310	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6311	ECJ1VB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6312	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6313	ECJ1XB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C6315	ECJ1XB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C6316	F1G1A104A012	C.CAPACITOR CH 10V 0.1U	1	
D6301	B3AAB0000137	DIODE	1	
FP6301	K1MN22BA0196	CONNECTOR 22P	1	
IC6301	C0ZBZ0001479	IC	1	
L6301	G1C100KA0031	COIL	1	
P6301	K1KA02BA0014	CONNECTOR 2P	1	
Q6301	2SB09700RL	TRANSISTOR	1	
R6301	ERJ6GEYJ122V	M.RESISTOR CH 1/10W 1.2K	1	
R6302	D0GB103JA057	M.RESISTOR CH 1/10W 10K	1	
R6303	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6304	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6306	ERJ6GEYJ150V	M.RESISTOR CH 1/10W 15	1	
R6307	ERJ3GEYJ561	M.RESISTOR CH 1/10W 560	1	
R6308	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6309	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6310	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6311	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6312	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6313	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
SW6301	K0F111B00074	SWITCH	1	
SW6302	K0F111A00547	SWITCH	1	
SW6303	K0F111A00547	SWITCH	1	
SW6304	K0F111A00547	SWITCH	1	
U6301	K1NA09E00063	CONNECTOR 9P	1	
■	LSEP8433B1	LCD BACKLIGHT P.C.B.		(RTL)
C8104	ECJ1VC1H390J	C.CAPACITOR CH 50V 39P	1	
C8105	ECJ1VC1H390J	C.CAPACITOR CH 50V 39P	1	
C8106	ECJ1VC1H390J	C.CAPACITOR CH 50V 39P	1	
C8107	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C8109	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C8112	ECJ2FB1A225K	C.CAPACITOR CH 10V 2.2U	1	
C8113	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C8120	ECJ2FB0J475K	C.CAPACITOR CH 6.3V 4.7U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8121	ECJ2FB0J475K	C.CAPACITOR CH 6.3V 4.7U	1	
D8101	MAZ80620ML	DIODE	1	
D8102	B3AFB0000215	LED	1	
D8104	B3AFB0000215	LED	1	
D8107	B3AFB0000215	LED	1	
D8109	B3AFB0000215	LED	1	
D8113	MAZ80470ML	DIODE	1	
FP8101	K1MN22BA0197	CONNECTOR 22P	1	
FP8102	K1MN24BA0196	CONNECTOR 24P	1	
L8101	G1C101KA0031	CHIP INDUCTOR 100UH	1	
Q8101	2SC6054J0L	TRANSISTOR	1	
Q8102	2SC6054J0L	TRANSISTOR	1	
Q8104	2SC6054J0L	TRANSISTOR	1	
Q8105	2SC6054J0L	TRANSISTOR	1	
Q8112	2SA2174J0L	TRANSISTOR	1	
Q8113	2SA2174J0L	TRANSISTOR	1	
Q8114	UNR9213J	TRANSISTOR-RESISTOR	1	
Q8115	UNR9213J	TRANSISTOR-RESISTOR	1	
Q8116	UNR9213J	TRANSISTOR-RESISTOR	1	
R8102	ERA3YED271	M.RESISTOR CH 1/16W 270	1	
R8105	ERA3YED271	M.RESISTOR CH 1/16W 270	1	
R8106	ERA3YED271	M.RESISTOR CH 1/16W 270	1	
R8107	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8110	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8112	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8119	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8126	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R8127	D0GB102JA057	M.RESISTOR CH 1/10W 1K	1	
R8135	ERA3YED822V	M.RESISTOR CH 1/16W 8.2K	1	
R8136	ERJ3RBD302	M.RESISTOR CH 1/10W 3K	1	
R8142	ERJ3GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R8144	ERJ3GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R8145	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8148	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8149	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8150	D0GB473JA057	M.RESISTOR CH 1/10W 47K	1	
R8151	D0GB473JA057	M.RESISTOR CH 1/10W 47K	1	
R8152	D0GB473JA057	M.RESISTOR CH 1/10W 47K	1	
■	LSEP8445A1	FRONT P.C.B.		(RTL)
C4801	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4802	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4803	ECJ2FB0J106K	C.CAPACITOR CH 6.3V 10U	1	
C4803	F1J0J106A004	C.CAPACITOR CH 6.3V 10U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4804	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	1	
C4805	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4806	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4808	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4809	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	1	
C4810	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4812	F3F0J226A055	E.CAPACITOR CH 6.3V 22U	1	
C6503	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C6504	F1G1A104A012	C.CAPACITOR CH 10V 0.1U	1	
C6505	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C7801	F1J1A106A023	C.CAPACITOR CH 10V 10U	1	
C7802	F1J1A106A023	C.CAPACITOR CH 10V 10U	1	
C7803	F3F0J226A055	E.CAPACITOR CH 6.3V 22U	1	
C7804	F3F0J226A055	E.CAPACITOR CH 6.3V 22U	1	
D6503	B0ADEJ000038	DIODE	1	
D6504	B3GA00000062	DIODE	1	
FP6501	K1MN16A00077	CONNECTOR 16P	1	
IC4801	C0ABBB000369	IC	1	
IC7801	L2ES00000016	GYROSCOPE	1	
IC7802	L2ES00000017	GYROSCOPE	1	
L7801	G1C100KA0031	COIL	1	
Q4801	2SD2216J08	TRANSISTOR	1	
Q6501	B1ABCF000098	TRANSISTOR	1	
Q6502	B1ADCF000063	TRANSISTORS	1	
R4802	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4803	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4804	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4805	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R4806	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4807	VRE0071E392	M.RESISTOR CH 1/10W 3.9K	1	
R4808	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R4809	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4810	VRE0071E392	M.RESISTOR CH 1/10W 3.9K	1	
R6504	ERJ2GEJ106X	M.RESISTOR CH 1/16W 10M	1	
R6505	ERJ3GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R6506	ERJ2GEJ184	M.RESISTOR CH 1/16W 180K	1	
R6507	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6509	ERJ2GEJ102X	M.RESISTOR CH 1/16W 1K	1	

2 Replacement Parts List (SDR-H60)

2.1. Frame & Casing Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	LSEP8445A1	FRONT P.C.B.	1	(RTL)
1-1	LSMA1039-1	FRONT ANGLE	1	
1-2	LSMG0190	MIC DAMPER	1	
2	LSYK2418	OPERATION U	1	
3	LSYK2417	FRONT/TOP U	1	
5	LSYK2419	GRIP U	1	
B1	XQN2+B5FN	SCREW	1	
B2	XQN2+B5FN	SCREW	1	
B3	XQN16+BJ4FN	SCREW	1	
B4	XQN16+BF4FN	SCREW	1	
B5	XQN16+BF4FN	SCREW	1	
B6	XQN16+BF4FN	SCREW	1	
B7	XQN16+BF4FN	SCREW	1	
B8	XQN16+BF4FN	SCREW	1	
B9	XQN16+BF4FN	SCREW	1	
B10	XQN16+BF4FN	SCREW	1	
B11	XQN16+BF4FN	SCREW	1	
B12	XQN16+BF4FN	SCREW	1	
B13	XQN16+BF4FN	SCREW	1	
B14	XQN16+BF4FN	SCREW	1	
B15	XQN16+BJ5FN	SCREW	1	
B16	XQN16+BJ5FN	SCREW	1	
B17	XQN16+BJ5FN	SCREW	1	
B18	XQN16+BJ5FN	SCREW	1	
B19	XQN16+BJ5FN	SCREW	1	
B20	XQN16+BJ5FN	SCREW	1	
B21	XQN16+BJ5FN	SCREW	1	
B22	XQN16+BJ5FN	SCREW	1	
B23	XQN16+BJ5FN	SCREW	1	
101	LSEP8443R1	MAIN P.C.B.	1	(RTL) EB,EE,EF,EG,E P,E, GC,GJ,GN,GK
101	LSEP8443D1	MAIN P.C.B.	1	(RTL) PC,PL,P
102	LSJB8451	HDD RELAY FPC	1	
103	LSMG0196	HDD CUSHION	1	
104	LSMG0196	HDD CUSHION	1	
105	LSSC1029	HDD SHIELD CASE	1	
106	LSVQ0122	HDD	1	
107	LSYK2320	MAIN PLATE	1	
110	LSJB8450	FRONT FPC	1	
111	LSEP8444A1	SD P.C.B.	1	(RTL)
112	LSJB8448	SD FPC	1	
113	LOAA02A00083	LOUDSPEAKER	1	
114	LSYK2411	SIDE L CASE U	1	
115	LSEK0838	BATTERY TERMINAL U	1	
116	LSMA1040	SPEAKER ANGLE	1	
B101	XQN16+BF4FN	SCREW	1	
B102	XQN16+BF4FN	SCREW	1	
B103	XQN16+BF4FN	SCREW	1	
B104	XQN16+BF4FN	SCREW	1	
B105	XQN16+BF4FN	SCREW	1	
B106	XQN16+BF4FN	SCREW	1	
B108	XQN16+BF4FN	SCREW	1	
B109	XQN16+BJ5FN	SCREW	1	
B110	XQN16+BJ5FN	SCREW	1	
B111	XQN16+BJ5FN	SCREW	1	

2.2. LCD Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
201	LSEP8449A1	LCD SHAFT FPC	1	
202	LSXA0946	SHAFT U	1	
203	LSMD0880	SHAFT SW HOLDER	1	
204	LSKM1761	SHAFT CASE A	1	
205	LSKM1689	SHAFT CASE B	1	
206	LSKM1690	LCD CASE B	1	
207	LSSC1057	LCD SHIELD CASE	1	
208	LSXY1245	PANEL HOLDER U	1	
209	LSGL1523	BEF SHEET A WIDE	1	
210	LSGL1524	BEF SHEET B WIDE	1	
211	LSGL1525	DIFFUSION SHEET WIDE	1	
212	LSGL1526	LEAD LIGHT PANEL	1	
213	LSGL1539	REFLECT SHEET WIDE	1	
214	LSBDDYH00026	LCD	1	
215	LSEP8433C1	LCD BACKLIGHT P.C.B	1	(RTL)
216	LSYK2328	LCD CASE A U	1	EB,EE,EF,EG,E P,E,GC,GJ,GN
216	LSYK2415	LCD CASE A U	1	PC,PL,P
216	LSYK2329	LCD CASE A U	1	GK
B201	LSHD0130	SCREW	1	
B202	XQN16+BJ4FN	SCREW	1	
B203	XQN16+BJ4FN	SCREW	1	
B204	XQN16+BJ4FN	SCREW	1	

2.3. Camera Lens Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
401	LSXN0056	LENS U	1	
401-1	L6HA66NB0009	ZOOM MOTOR U	1	
401-2	L6HA66NB0010	FOCUS MOTOR U	1	
401-3	LSEM0112	IRIS (U)	1	
402	LSDW0122	CCD CASE	1	
403	LSEP8461B1	CCD F.C.B.A.	1	EB,EE,EF,EG,E P,E, GC,GJ,GN,GK
403	LSEP8461A1	CCD F.C.B.A.	1	PC,PL,P
404	LSFL0292	OPTICAL LPF	1	
405	VMX3282	CCD CUSHION RUBBER	1	
B401	LSHD0136	SCREW	1	
B402	LSHD0136	SCREW	1	
B403	XQN16+BJ4FN	SCREW	1	
B404	XQN16+BJ4FN	SCREW	1	
B405	XQN16+BJ4FN	SCREW	1	
B406	XQN16+BJ4FN	SCREW	1	
B407	XQN16+BJ4FN	SCREW	1	

2.4. Packing Parts & Accessories Section Parts List

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
501	LSPG2597	PACKING CASE	1	EB,EF,EG,E
501	LSPG2632	PACKING CASE	1	EE
501	LSPG2617	PACKING CASE	1	EP
501	LSPG2598	PACKING CASE	1	GC,GJ,GN
501	LSPG2590	PACKING CASE	1	PC,PL,P
501	LSPG2599	PACKING CASE	1	GK
502	LSPN0886	PAD	1	
504	DE-A51CA	AC ADAPTOR	1	EB,EE,EF,EG,E P,E,GC,GJ,GN Δ
504	DE-A51BA	AC ADAPTOR	1	PC,PL,P Δ
504	DE-A51DA	AC ADAPTOR	1	GK Δ
505	K2CT3CA00004	AC CORD	1	EB,GC Δ
505	K2CQ2CA00006	AC CORD	1	EE,EF,EG,EP,E ,GC Δ
505	K2CP2YY00001	AC CORD	1	GJ Δ
505	K2CJ2DA00011	AC CORD	1	GN Δ
505	K2CA2CA00029	AC CORD	1	PC,PL,P Δ
505	K2CA2CA00020	AC CORD	1	GK Δ
506	K1HA05CD0016	USB CABLE	1	EB,EE,EF,EG,E P,E, GC,GJ,GN,GK
506	K1HA05CD0018	USB CABLE	1	PC,PL,P
507	K2KZ9CB00002	AV CABLE	1	
508	LSFT0758	CD-ROM	1	
509	LSPF0107	POLY BAG	1	
510	LSQT1341-B	O/I	1	EG
510	LSQT1342-B	O/I	1	EG
510	LSQT1343-B	O/I	1	EF
510	LSQT1344-B	O/I	1	E
510	LSQT1345-B	O/I	1	E
510	LSQT1346-B	O/I	1	EP
510	LSQT1347-B	O/I	1	EP
510	LSQT1348-B	O/I	1	EB
510	LSQT1349-B	O/I	1	GC,GJ
510	LSQT1350-B	O/I	1	GC
510	LSQT1353-B	O/I	1	GN
510	LSQT1354-A	O/I	1	GK
510	LSQT1394-A	O/I	1	PC,P
510	LSQT1395-A	O/I	1	PC
510	LSQT1396-A	O/I	1	PL
510	LSQT1405-A	O/I	1	EE
511	K2GJ2DC00023	DC CABLE	1	
512	LSPN0899	BOTTOM PAD	1	

2.5. Electrical Replacement Parts List

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuf.
4. The P.C. Board units marked with "■" show below the main assembled parts.
5. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	LSEP8444A1	SD P.C.B.	1	(RTL)
BT7001	ML-621S/F9DE	BATTERY	1	Δ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6301	F3G0J107A017	C.CAPACITOR CH 6.3V 100U	1	
C6302	ECJ1VB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6303	ECJ1VB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6306	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6307	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6308	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6310	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6311	ECJ1VB1E103K	C.CAPACITOR CH 25V 0.01U	1	
C6312	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C6313	ECJ1XB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C6315	ECJ1XB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C6316	F1G1A104A012	C.CAPACITOR CH 10V 0.1U	1	
D6301	B3AAB0000137	DIODE	1	
FP6301	K1MN22BA0196	CONNECTOR 22P	1	
IC6301	C0ZBZ0001479	IC	1	
L6301	G1C100KA0031	COIL	1	
P6301	K1KA02BA0014	CONNECTOR 2P	1	
Q6301	2SB09700RL	TRANSISTOR	1	
R6301	ERJ6GEYJ122V	M.RESISTOR CH 1/10W 1.2K	1	
R6302	D0GB103JA057	M.RESISTOR CH 1/10W 10K	1	
R6303	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6304	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6306	ERJ6GEYJ150V	M.RESISTOR CH 1/10W 15	1	
R6307	ERJ3GEYJ561	M.RESISTOR CH 1/10W 560	1	
R6308	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6309	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6310	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6311	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6312	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
R6313	ERJ3GEYJ330	M.RESISTOR CH 1/10W 33	1	
SW6301	K0F111B00074	SWITCH	1	
SW6302	K0F111A00547	SWITCH	1	
SW6303	K0F111A00547	SWITCH	1	
SW6304	K0F111A00547	SWITCH	1	
U6301	K1NA09E00063	CONNECTOR 9P	1	
■	LSEP8433C1	LCD BACKLIGHT P.C.B	1	(RTL)
C8104	ECJ1VC1H390J	C.CAPACITOR CH 50V 39P	1	
C8105	ECJ1VC1H390J	C.CAPACITOR CH 50V 39P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8106	ECJ1VC1H390J	C.CAPACITOR CH 50V 39P	1	
C8107	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C8109	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C8111	ECJ1XB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C8112	ECJ2FB1A225K	C.CAPACITOR CH 10V 2.2U	1	
C8113	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
C8121	ECJ2FB0J475K	C.CAPACITOR CH 6.3V 4.7U	1	
D8101	MAZ80620ML	DIODE	1	
D8102	B3AFB0000239	LED	1	
D8104	B3AFB0000239	LED	1	
D8107	B3AFB0000239	LED	1	
D8109	B3AFB0000239	LED	1	
D8113	MAZ80510ML	DIODE	1	
FP8101	K1MN22BA0197	CONNECTOR 22P	1	
FP8102	K1MN24BA0196	CONNECTOR 24P	1	
L8101	G1C101KA0031	CHIP INDUCTOR 100UH	1	
Q8101	2SC6054J0L	TRANSISTOR	1	
Q8102	2SC6054J0L	TRANSISTOR	1	
Q8104	2SC6054J0L	TRANSISTOR	1	
Q8105	2SC6054J0L	TRANSISTOR	1	
Q8107	2SA2174J0L	TRANSISTOR	1	
Q8112	2SA2174J0L	TRANSISTOR	1	
Q8113	2SA2174J0L	TRANSISTOR	1	
R8102	ERA3YED271V	M.RESISTOR CH 1/16W 270	1	
R8105	ERA3YED271V	M.RESISTOR CH 1/16W 270	1	
R8106	ERA3YED271V	M.RESISTOR CH 1/16W 270	1	
R8107	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8110	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8112	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8114	ERJ3RBD563V	M.RESISTOR CH 1/10W 56K	1	
R8115	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8116	ERA3YED562V	M.RESISTOR CH 1/16W 5.6K	1	
R8119	ERJ3RED270	M.RESISTOR CH 1/10W 27	1	
R8123	D0GB473JA057	M.RESISTOR CH 1/10W 47K	1	
R8126	ERJ3GEYJ104V	M.RESISTOR CH 1/10W 100K	1	
R8127	D0GB102JA057	M.RESISTOR CH 1/10W 1K	1	
R8135	ERA3YED822V	M.RESISTOR CH 1/16W 8.2K	1	
R8136	ERJ3RBD302	M.RESISTOR CH 1/10W 3K	1	
R8143	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8145	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8153	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8154	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8155	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0	1	
	LSEP8445A1	FRONT P.C.B.	1	(RTL)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4801	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4802	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4803	ECJ2FB0J106K	C.CAPACITOR CH 6.3V 10U	1	
C4804	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	1	
C4805	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4806	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4808	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4809	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	1	
C4810	ECJ0EB1A273K	C.CAPACITOR CH 10V 0.027U	1	
C4812	F3F0J226A055	E.CAPACITOR CH 6.3V 22U	1	
C6503	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C6504	F1G1A104A012	C.CAPACITOR CH 10V 0.1U	1	
C6505	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C7801	F1J1A106A023	C.CAPACITOR CH 10V 10U	1	
C7802	F1J1A106A023	C.CAPACITOR CH 10V 10U	1	
C7803	F3F0J226A055	E.CAPACITOR CH 6.3V 22U	1	
C7804	F3F0J226A055	E.CAPACITOR CH 6.3V 22U	1	
D6503	B0ADEJ000038	DIODE	1	
D6504	B3GA00000062	DIODE	1	
FP6501	K1MN16A00077	CONNECTOR 16P	1	
IC4801	C0ABBB000369	IC	1	
IC7801	L2ES00000016	GYROSCOPE	1	
IC7802	L2ES00000017	GYROSCOPE	1	
L7801	G1C100KA0031	COIL	1	
Q4801	2SD2216J08	TRANSISTOR	1	
Q6501	B1ABCF000098	TRANSISTOR	1	
Q6502	B1ADCF000063	TRANSISTOR	1	
R4802	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4803	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4804	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4805	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R4806	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4807	VRE0071E392	M.RESISTOR CH 1/10W 3.9K	1	
R4808	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R4809	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4810	VRE0071E392	M.RESISTOR CH 1/10W 3.9K	1	
R6504	ERJ2GEJ106X	M.RESISTOR CH 1/16W 10M	1	
R6505	ERJ3GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R6506	ERJ2GEJ184	M.RESISTOR CH 1/16W 180K	1	
R6507	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6509	ERJ2GEJ102X	M.RESISTOR CH 1/16W 1K	1	