Portégé 620CT

General Specifications

Model 620CT

Model Number: Portégé 620CT - PA1125U-T9A, limited production

Power: Input Voltage: 100-240V, self-adjusting 50/60 Hz

Output Voltage: 15 V 2.0A

Main Battery: Lithium Ion, 3.6V x 1250mAh x 9 batteries

Processor: Intel Pentium 100Mhz

Integrated Co-processor 16KB internal cache

Memory: 8MB EDO expandable to 40 MB

Drive(s): FDD: 3 1/2" 1.44MB (External bundled w/unit)

HDD: 1.26GB, 13ms

AccuPoint: Integrated Pointing Device

Display: 10.4" TFT Color Active Matrix

800 x 600 pixels

Expansion: Interfaces: Serial, ECP Parallel, SVGA Monitor, PS/2 Mouse, PS/2 Keyboard, Port Replicator,

Microphone/Headphone Jacks

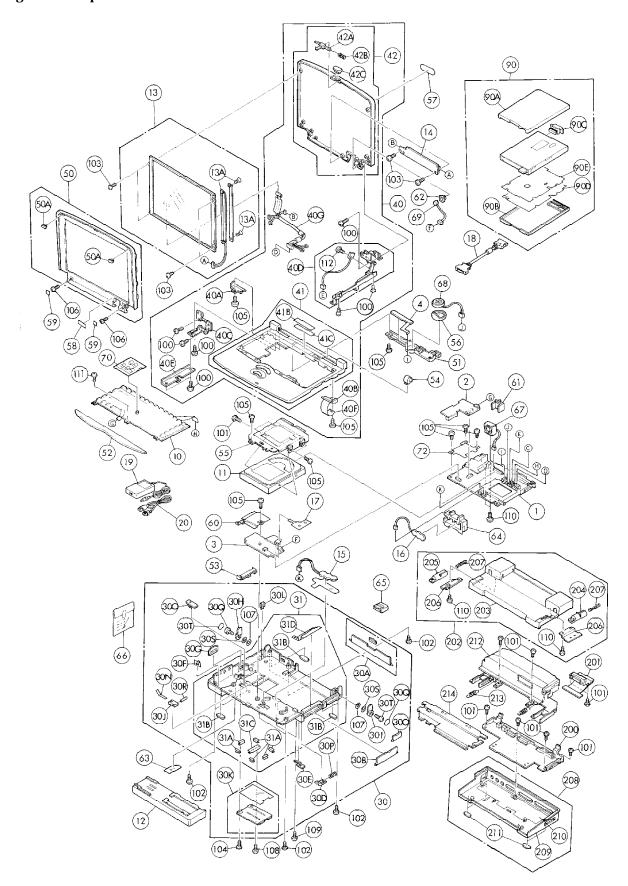
PC Card Slots: 2 Type II or 1 Type III

Memory: 1 dedicated slot

Plug and Play

Warranty: 3 years parts and labor

Portégé 620CT Exploded View



Portégé 620CT Part Numbers

Ref. #	Code	Part #	Description	PIR	Comments
	C815	PA1125UX	620CT/1.2		Port 620CT with 1.26GB HDD
	C815	PA1125U-T9A	620CT/1.26		Port 620CT/1.26
1		PA1125U-T9AB	620CT/1.26 REMFG		Port 620CT/1.26 (Remf.)
1 2		P000220310 P000210080	PCB FM4SY3 PCB FM3PS3		Sys. Board, B36077801011 Pwr Sply Board, B36075941016
3	C815	P000210000 P000210090	PCB FM3SD3		Sound Board, B36075671012
4	C815	P000204570	PCB FM3LE1		LED Board, B36075141010
5-9		(reserved)			
10	C815	P000197540	Kybd UNIT		UE0276P09
11	C815	P000218890	HDD UNIT(1.35GB)		Tosh. MV1200, MK1301MAV, HDD2172B
12 13		PA2489UR P000220320	MAIN Batt. (4000mAh) COLOR LCD Mod.		Lithium-Ion, 10.8V, 4000mAh w/recycle label Tosh. (DTI) 10.4 inch, VF0170P01
13A	C815	P000220320	FL TUBE SET		with cover & screws
14	C815	P000220160	FL INVERTER		UA0392P04
15		P000204630	NI-MH Batt.		Backup Batt., 6.0V, 110mAh
16		P000204640	NI-MH Batt.		RTC Batt., 3.6V, 30mAh
17 18		P000204650 P000203500	MEMBRANE SWITCH FDD CABLE		AccuPoint control button contact UL0196P04
19	C815	PA2438U	AC ADAPTER		Input:100-240VAC,0.7A-0.4A,50-60HZ, Output:15VDC,2A
20	C815	P000182200	AC CORD SET		pa
21-29		(reserved)			
30 N/C	C815	P000204610	BASE Assy		Attached to Door Accus protects react quitely
N/S 30A	C815 C815	P000251740 P000204870	INSULATOR Conn. COVER Assy		Attached to Base Assy, protects reset switch
30B	C815	P000204870	PC CARD COVER		
30C	C815	P000204890	FDD Conn. COVER		
30D		P000204900	Batt. LEVER		Batt. Release Latch
30E	C815	P000204910	Batt. KNOB		Batt. Lock
30F 30G	C815 C815	P000204920 P000196900	LED LENS SWITCH BUTTON		
30H	C815	P000193180	TILT ANGLE, LEFT		
301	C815	P000193190	TILT ANGLE, RIGHT		
30J	C815	P000193300	Batt. STOPPER		
30K	C815	P000204930	Mem. CARD COVER Assy		Mem. Mod. Socket Cover
30L 30N	C815 C815	P000193340 P000193310	KEY PLATE STOPPER SPRING		
300	C815	P000193310 P000193320	SAFETY CONTACT SPRING		
30P	C815	P000204950	SPRING, Batt. LOCK		
30Q	C815	P000193240	BLIND SEAL		
30R	C815	P000193350	SPRING PIN		
30S 30T	C815 C815	P000193260 P000193230	WAVE WASHER TILT SCREW		
31	C815	P000173230 P000204860	BASE SUB Assy		
31A	C815	P000202280	EARTH SPRING		
31B	C815	P000198350	BOTTOM CUSHION		
31C	C815	P000205680	BRG EARTH SPRING		
31D 32-39	C815	P000204940 (reserved)	EJECTOR EARTH SPRING		
40	C815	P000220340	COVER Assy		
40-1	C815	P000223730	COVER Assy	CEE	
40A	C815	P000205010	HINGE COVER, LEFT		
40B 40C	C815 C815	P000205020	HINGE COVER, RIGHT BRAKE HINGE, LEFT		
40D	C815	P000220360 P000220370	SENSOR HARNESS		
40E	C815	P000205050	HINGE BRACKET		
40F	C815	P000205060	INSULATOR CORE HOLDER		
40G	C815	P000220380	LCD HARNESS		LCD Cable, UL0248P06
41 41B	C815	P000204960	COVER SUB Assy		Top Cover
41B 41C	C815 C815	P000193380 P000194670	LED LABEL DISPERSIVE FILM		
42	C815	P000220350	LCD COVER Assy		
42-1	C815	P000223560	LCD COVER Assy	CEE	
42A	C815	P000204990	LATCH HOOK		
42B 42C	C815 C815	P000205000	LATCH KNOB		
42C 43-49	C013	P000180400 (reserved)	SPRING B		
50	C815	P000220390	LCD MASK Assy		
50A	C815	P000204670	LCD CUSHION		
51	C815	P000204680	SPEAKER HOLDER Assy		

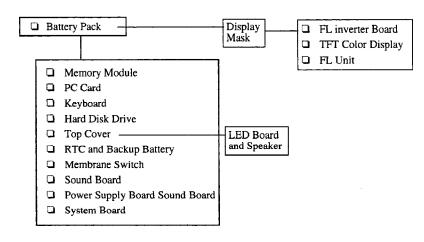
Portégé 620CT Part Numbers, (cont.)

Section	Ref. #	Code	Part #	Description	PIR	Comments
Salic						
September Sept	52					Kybd Cover
December	53 54					
Separation	54 55					
571 C815 P00022040 PC NAME SEAL (C) 581 C815 NP602072 PC NAME SEAL (M) 581 C816 NP602071 PC NAME SEAL (M) 582 C816 NP602071 PC NAME SEAL (M) 582 C816 NP602071 PC NAME SEAL (M) 582 C816 NP602071 PC NAME SEAL (M) 583 C816 NP602071 PC NAME SEAL (M) 583 C816 NP602071 PC NAME SEAL (M) 584 C816 NP602071 PC NAME SEAL (M) 584 C816 NP602071 PC NAME SEAL (M) 585 C816 NP6020	56					Protective Cover for Speaker
Second	57	C815	P000220400	PC NAME SEAL (C)		
Section					CBF	
Call					CDE	
60 C815 P000204760 SOUND SHIELD Assy Sound Board Cover 61 C815 P000204790 CARE LARE					CDF	Rubber Seal
61 C815 P00022180 BLIND FAN SEAL FAN Hole Seal 62 C815 P00020480 MC HOLDER 63 C815 P00020480 RTC Balt HOLDER 64 C815 P00022480 RTC Balt HOLDER 65 C815 P00022480 RTC Balt HOLDER 66 C815 P000224810 PC SC LOT COVER 66 C815 P000224810 PC SC LOT COVER 67 C815 P000204810 SPEAKER B 8 Ohm, 0.5W 68 C815 P000204840 MCROPHONE 70 C815 P00003480 STICK CAP SET 71 (respect) 72 C815 P00002480 STICK CAP SET 71 (respect) 72 C815 P00022480 FD STICK CAP SET 73-89 (respect) 70 C815 P000221820 FD STICK CAP SET 71 (respect) 72 C815 P000221820 FD COVER, LOWER 79 OB C815 P000221830 FD COVER, LOWER 79 OB C815 P00017160 SCREW M2X4 70 C815 P00017160 SCREW M2X5 71 C815 P00020800 SCREW M2X6 71 C816 P00025830 SCREW M2X6 72 C816 P00025830 SCREW M2X6 73 C816 P00025830 SCREW M2X6 74 C816 P00025830 SCREW M2X6 75 C816 P00025830 SCREW M2X6 75 C816 P00025830 SCREW M2X6 76 C816 P00025830 SCREW M2X6 77 C816						
64 C815 P000204900 CARE LABEL 64 C815 P000202170 TRANSFER Conn. 65 C815 P000222170 TRANSFER Conn. 66 C815 P0002024810 (reserved) 67 (reserved) 68 C815 P000204830 SPEAKER 8 Ohm, 0.5W 69 C815 P000204830 SICK CAP SET 71 C815 P000204830 SYSTEM SICK CAP SET 71 C815 P000204840 FDD COVER, LOWER 71 C90 C815 P000221820 FDD COVER, LOWER 71 C90 C815 P000221830 FDD SHELD 71 C815 P0002121830 FDD SHELD 71 C815 P0002121830 FDD SHELD 71 C815 P0002121830 FDD INSULATOR 71 C815 P000121840 SCREW M3X4 71 C815 P00012140 SCREW M3X8 71 C815 P000021740 SCREW M3X8 71 C815 P000017160 SCREW M3X8 71 C815 P000018320			P000222180	BLIND FAN SEAL		Fan Hole Seal
64 C815 P000204800 RTG Batt HOLDER 65 C815 P000204810 PC SLOT COVER 66 C815 P000204810 PC SLOT COVER 67 (reserved) 68 C815 P000204830 SPEAKER 8 6 Ohm, 0.5W 69 C815 P000204840 MICROPHONE 70 C815 P000204840 MICROPHONE 71 (reserved) 72 C816 P000205690 STICK CAP SET 71 (reserved) 72 C818 P000205690 SYSTEM SHIELD Assy 73-89 (reserved) 73-89 (reserved) 74 P000205690 SYSTEM SHIELD Assy 75-89 (reserved) 75 P00021830 PDD COVER, LOWER 76 C815 P00021830 PDD COVER, LOWER 77 C815 P00021830 PDD COVER, LOWER 78 P000 C815 P00021830 PDD COVER, LOWER 78 P000 C815 P00021830 PDD COVER, LOWER 78 P000 C815 P00021830 PDD SHIELD 78 P00021830 PDD SHIELD 78 P00021830 PDD SHIELD 78 SCREW M3X4 78 SCREW M3X5 79 SCREW M3X5 70 SCREW M3X5	62					
66 C815 P000222170 TRANSFER Conn. 66 C815 P000204810 (reserved) 67 (reserved) 68 C815 P000204830 SPEAKER 8 0 hm, 0.5W 69 C815 P000204830 MICROPHONE 71 (reserved) 72 C815 P000205690 SYSTEM SHIELD Assy 73.89 C816 P000221800P00022180 FDD COVER LOPER 73.89 C815 P000221800P00022180 FDD COVER LOPER 74 P000 C 815 P000221810 FDD COVER LOPER 75 P00 C 815 P000221810 FDD COVER LOPER 76 P00 C 815 P000221810 FDD SHELD 77 (reserved) 78 C815 P000221810 FDD SHELD 78 C816 P000221810 FDD SHELD 79 C 815 P000221810 FDD SHELD 79 C 815 P0000221850 FDD INSULATOR 79 C816 P000021850 SCREW M3X4 70 C817 P00004030 SCREW M3X4 70 C818 P000017160 SCREW M3X4 70 C818 P00017180 SCREW M3X4 70 C818 P000172180 SCREW M3X4 710 C818 P000172180 SCREW M3X54 710 C818 P000172180 SCREW M3X54 711 C818 P000172180 SCREW M3X54 711 C818 P000172180 SCREW M3X54 712 C818 P000172180 SCREW M3X54 713 C818 P000172180 SCREW M3X54 714 C818 P000172180 SCREW M3X54 715 C818 P000172180 SCREW M3X54 716 C818 P000172180 SCREW M3X54 717 C818 P000172180 SCREW M3X54 718 C818 P000172180 SCREW M3X54 719 C818 F0000273710 LCD M3X5 SEAL 710 C818 F0000273710 LCD M3X5 SEAL 711 C818 F0000273710 LCD M3X5 SEAL 712 C818 F0000273710 LCD M3X5 SEAL 713 C818 F0000273710 LCD M3X5 SEAL 714 C819 F000029530 LCD M3X6 SEAL 715 C818 F000029530 LCD M3X6 SEAL 716 C818 F000029530 LCD M3X6 SEAL 717 C818 F000029530 LCD M3X6 SEAL 718 C818 F000029530 LCD M3X6 SEAL 718 C818 F000029	63 64					
66 C815 P000204840 MICROPHONE 67 (reserved) 68 C815 P000204840 MICROPHONE 70 C815 P000204840 MICROPHONE 71 (reserved) 72 C815 P000205990 STICK CAP SET 71 (reserved) 73-89 (reserved) 70 C815 P000220790 SYSTEM SHIELD Assy 73-89 (reserved) 70 C815 P000221810 P000220790 70 C815 P000221820 FDD COVER, UPPER 70 C815 P000221810 FDD COVER, LOWER 70 C815 P000221840 FDD SA Inc. 71 C815 P000221840 FDD SA Inc. 71 C815 P000221850 FDD COVER, LOWER 71 C815 P00021850 FDD SA Inc. 71 C815 P000193250 SCREW M2X8 71 C815 P000193250 SCREW M2X4 71 C815 P000193250 WASHER 71 C815 P000193250 SCREW M2X6 71 C815 P00019350 SCREW M2X6 71 C816 P000236805 SCREW M2X6 71 C816 P000236805 SCREW M2X6 71 C817 P000236805 SCREW						
68 C815 P000204840 MICROPHONE 70 C815 P000193060 STICK CAP SET 71 (reseverd) 72 C815 P000205690 SYSTEM SHIELD Assy 73-89 (reseverd) 73-89 P000220190 FDD 3.5 Inch 790 C815 P000220190 FDD COVER, UPPER 90B C815 P000221800 FDD COVER, UPPER 90B C815 P00022180 FDD COVER, LOWER 90C C815 P00022180 FDD COVER, LOWER 90C C815 P00022180 FDD COVER, LOWER 90C C815 P00022180 FDD COVER, LOWER 91-99 (reserved) 100 C815 P00012180 FDD SHIELD 91-99 (reserved) 101 C815 P000172160 SCREW M3X4 102 C815 P00004030 SCREW M2X8 102-1 C815 P00004030 SCREW M2X8 102-1 C815 P00004030 SCREW M2X8 103 C815 P000171940 SCREW M2X4 104 C815 P000171940 SCREW M2X4 105 C815 P000171940 SCREW M2X4 106 C815 P000171940 SCREW M2X4 107 C815 P000171940 SCREW M2X4 108 C815 P000171940 SCREW M2X4 109 C815 P000172160 SCREW M2X4 106 C815 P000172160 SCREW M2X4 107 C815 P000172160 SCREW M2X4 108 C815 P000172160 SCREW M2X4 109 C815 P000172160 SCREW M2X4 109 C815 P00010405 SCREW M2X4 109 C815 P00010405 SCREW M2X6 109 C815 P00010405 SCREW M2X6 109 C815 P00010405 SCREW M2X6 109 C815 P000105970 SCREW M2X6 109 C815 P000109570 SCREW M2X6 109 C815 NW2031U NW, 8MB Mem. Mod. 100 C815 P00010590 SCREW M2X6 111 C815 P000106030 SCREW M2X6 112 C815 P00010750 SCREW M2X6 110 C815 P000108030 SCREW M2X6 111 C815 P000108030 SCREW M2X6 110 C815 P000209520 SCREW M2X6 111 C815 P000209520 SCREW M2X6 112 C815 P000209520 SCREW M2X6 113 C815 P000209520 SCREW M2X6 114 C815 P000209520 SCREW M2X6 115 C815 P000209520 SCREW M2X6 116 C815 P000209520 SCREW M2X6 117 C815 P000209520 SCREW M2X6 118 KTIGO106 SCREW M2X6 119 C815 W2031U NW, 8MB Mem. Mod. 110 C815 P000209520 SCREW M2X6 111 C815 P000209530 SCREW M2X6 112 C816 P000209530 SCREW M2X6 114 C817 P000209530 SCREW M2X6 115 C816 P00020900-V530 SCREW M2X6 116 C817 P000209530 SCREW M2X6 117 C818 P000209530 SCREW M2X6 118 C818 P00020900-V530 SCREW M2X6 119 C818 SCREW M2X6 119 SCREW M2X6 119 SCREW M2X6 119 SCREW M2X6	66					
P000204840 MICROPHONE F000205490 MICROPHONE F000205490 SYSTEM SHIELD ASSY (reserved) F000205490 SYSTEM SHIELD ASSY (reserved) F000207490 F0D 3.5 inch Cilizen, ZA1215P02 F000207490 F0D 3.5 inch F000207490 F0D 5.5 inch F000207490 F00020749		0015		00541/50		0.01
	68 40					8 Ohm, 0.5W
The company						
72		0013		OTION ON OLI		
90	72	C815	P000205690	SYSTEM SHIELD Assy		
908		0045		FDD 2 F Inch		CH-c- 74121FD02
90B						Citizen, ZA1215PU2
90C C815 P000221830 FDD Conn. 90E C815 P000221830 FDD INSULATOR 91-99 100 C815 P000221830 FDD INSULATOR 91-99 101 C815 P000172160 SCREW M2.5462 101 C815 P000172160 SCREW M2.548 102 C815 P000094030 SCREW M2.88 102-1 C815 P000094030 SCREW M2.88 103 C815 P000171690 SCREW M2.84 104 C815 P000171690 SCREW M2.84 105 C815 P000171690 SCREW M2.84 106 C815 P000171690 SCREW M2.84 107 C815 P000172160 SCREW M2.84 108 C815 P000172160 SCREW M2.84 109 C815 P000172160 SCREW M2.84 109 C815 P000189300 SCREW 109 C815 P00018930 SCREW 109 C815 P00018930 SCREW 110 C815 P00029520 SCREW M2.84 111 C815 P000208520 SCREW M2.84 111 C815 P000208650 SCREW 112 C815 P000016830 SCREW 113 C815 P0001016850 SCREW 114 C815 P000208580 SCREW 115 C815 P00020800-V510 SCREW M2.84 116 C815 P00020800-V510 SCREW M2.84 117 C815 P00020800-V510 SCREW M2.84 118 C815 P00020800-V510 SCREW M2.84 119 C815 P00020800-V510 SCREW M2.84 110 C815 P00020800-V510 SCREW M2.84 111 C815 P00020800-V510 SCREW M2.84 111 C815 P00020800-V510 SCREW M2.84 112 C815 P00020800-V510 SCREW M2.84 113 C815 P00020800-V510 SCREW M2.84 114 C816 P00020800 SCREW M2.84 115 C815 P00020800-V510 SCREW M2.84 116 C815 P00020800-V510 SCREW M2.84 117 C815 P00020800-V510 SCREW M2.84 118 C815 P00020800-V510 SCREW M2.84 119 C815 KT161076 KINGSTON, 38MB Mem. Mod. 10P C815 KT161076 KINGSTON, 38MB Mem. 10P C815 KT1610732 KINGSTON, 38MB Mem. 10P C815 KT161076 KINGSTON, 38MB M						
90E C815 P000221850 FDD INSULATOR (91-99						
91-99						
101		C815		FDD INSULATOR		
101		C815		SCREW M2 5X67		
102-1						
103						
104						Grip Type Screw
105						
107						
108						
109						
109-1						
111						Grip Type Screw
112						
OP C815 NW2031U NW, 8MB Mem. Mod. OP C815 KTT610/8 KINGSTON, 8MB Mem. OP C815 NW2032U NW, 16MB Mem. Mod. OP C815 KTT610/16 KINGSTON, 16MB Mem. OP C815 NW2034U NW, 32MB Mem. Mod. OP C815 NW2034U NW, 32MB Mem. Mod. N/S C815 P000220800-V510 SYSTEM BIOS DISK - V5.10 BIOS Disk Version V5.10, marking F36000368000 N/S C815 P000220800-V520 SYSTEM BIOS DISK - V5.20 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000220800-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P0002247320 FIR COVER BIOS DISK Version V5.30 50M C1G1 P000247320 FIR COVER Display Mask 70A C1G1 P000255350 LCD MASK ASSEMBLY Display Mask 72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P000257830 <						
OP C815 KTT610/8 KINGSTON, 8MB Mem. OP C815 NW2032U NW, 16MB Mem. Mod. OP C815 KTT610/16 KINGSTON, 16MB Mem. OP C815 NW2034U NW, 32MB Mem. Mod. OP C815 KTT610/32 KINGSTON, 32MB Mem. N/S C815 P000220800-V510 SYSTEM BIOS DISK - V5.10 BIOS Disk Version V5.10, marking F36000368000 N/S C815 P000220800-V520 SYSTEM BIOS DISK - V5.20 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000220800-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000228000-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000228000-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.10, marking F36000368007 N/S C815 P000228000-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.10, marking F36000368017 P000247320 FIR COVER FIR COVER Display Mask						
OP C815 NW2032U NW, 16MB Mem. Mod. OP C815 KTT610/16 KINGSTON, 16MB Mem. OP C815 NW2034U NW, 32MB Mem. Mod. OP C815 KTT610/32 KINGSTON, 32MB Mem. N/S C815 P000220800-V510 SYSTEM BIOS DISK - V5.10 BIOS Disk Version V5.10, marking F36000368000 N/S C815 P000220800-V520 SYSTEM BIOS DISK - V5.20 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000220800-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P0002247320 FIR COVER BIOS Disk Version V5.30 F1-69 (Reserved) CR FIR COVER BIOS Disk Version V5.30 F1-69 (Reserved) CIG1 P000295350 LCD MASK ASSEMBLY Display Mask 70 C1G1 P000295380 LCD CUSHION Display Mask 71 (Reserved) CIG1 P000295380 LCD MASK SEAL 74 C1G1 P0002273710 LCD EARTH SPRING </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
OP C815 NW2034U NW, 32MB Mem. Mod. OP C815 KTT610/32 KINGSTON, 32MB Mem. N/S C815 P000220800-V510 SYSTEM BIOS DISK - V5.10 BIOS Disk Version V5.10, marking F36000368000 N/S C815 P000220800-V520 SYSTEM BIOS DISK - V5.20 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000220800-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 50M C1G1 P000247320 FIR COVER FIR COVER 51-69 (Reserved) FIR COVER Display Mask 70 C1G1 P000295350 LCD MASK ASSEMBLY Display Mask 71 (Reserved) Display Mask 72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P000258050 LCD MASK SEAL 74 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287800 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A"		C815	NW2032U	NW, 16MB Mem. Mod.		
OP C815 KTT610/32 KINGSTON, 32MB Mem. Reserved N/S C815 P000220800-V510 SYSTEM BIOS DISK - V5.10 BIOS Disk Version V5.10, marking F36000368000 N/S C815 P000220800-V520 SYSTEM BIOS DISK - V5.20 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000220800-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 50M C1G1 P000247320 FIR COVER BIOS Disk Version V5.20, marking F36000368017 51-69 (Reserved) FIR COVER BIOS Disk Version V5.20, marking F36000368017 70 C1G1 P000247320 FIR COVER 71 (Reserved) Display Mask 71 (Reserved) Display Mask 72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P0002586280 FL HARNESS INSULATOR 75 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRA						
N/S C815 P000220800-V510 SYSTEM BIOS DISK - V5.10 BIOS Disk Version V5.10, marking F36000368000 N/S C815 P000220800-V520 SYSTEM BIOS DISK - V5.20 CBA BIOS Disk Version V5.20, marking F36000368017 N/S C815 P000220800-V530 SYSTEM BIOS DISK - V5.30 CBA BIOS Disk Version V5.20, marking F36000368017 50M C1G1 P000247320 FIR COVER BIOS DISK Version V5.20, marking F36000368017 51-69 (Reserved) FIR COVER BIOS DISK Version V5.20, marking F36000368017 70 C1G1 P000247320 FIR COVER 71 (Reserved) Display Mask 71 (Reserved) Display Mask 72 C1G1 P000258050 LCD MASK SEAL 74 C1G1 P000286280 FL HARNESS INSULATOR 75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)						
N/S						BIOS Disk Version V5.10, marking F36000368000
50M	N/S	C815	P000220800-V520	SYSTEM BIOS DISK - V5.20		BIOS Disk Version V5.20, marking F36000368017
51-69 (Reserved) 70 C1G1 P000295350 LCD MASK ASSEMBLY Display Mask 70A C1G1 P000266750 LCD CUSHION 71 (Reserved) 72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P000258050 LCD MASK SEAL 74 C1G1 P000286280 FL HARNESS INSULATOR 75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)					CBA	BIOS Disk Version V5.30
70 C1G1 P000295350 LCD MASK ASSEMBLY Display Mask 70A C1G1 P000266750 LCD CUSHION 71 (Reserved) 72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P000258050 LCD MASK SEAL 74 C1G1 P000286280 FL HARNESS INSULATOR 75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)		CIGI		FIR CUVER		
70A C1G1 P000266750 LCD CUSHION 71 (Reserved) 72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P000258050 LCD MASK SEAL 74 C1G1 P000286280 FL HARNESS INSULATOR 75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)		C1G1	, ,	LCD MASK ASSEMBLY		Display Mask
72 C1G1 P000257830 SPEAKER GUM 73 C1G1 P000258050 LCD MASK SEAL 74 C1G1 P000286280 FL HARNESS INSULATOR 75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)	70A		P000266750			• •
73		C1C1		CDEAVED CUM		
74 C1G1 P000286280 FL HARNESS INSULATOR 75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)						
75 C1G1 P000273710 LCD EARTH SPRING 76 C1G1 P000287280 LCD HARNESS HOLDER 77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)	74					
77 C1G1 P000295360 "LCD BRACKET, LEFT 133A" 78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)	75	C1G1	P000273710	LCD EARTH SPRING		
78 C1G1 P000295370 "LCD BRACKET, RIGHT 133A" 79 (Reserved)						
79 (Reserved)	/ / 78				"	
		Cidi		LOD DIMORET, MIGHT 133A		
		C1G1		BASE ASSEMBLY		

Portégé 620CT Part Numbers, (cont.)

Ref. #	Code	Part #	Description	PIR	Comments
80A 80B	C1G1 C1G1	P000286060 P000286070	BATTERY CASE ASSY POWER SWITCH ASSY		
80C	C1G1	P000286080	MEMORY COVER ASSY		
80D 80E	C1G1 C1G1	P000264210 P000264220	BATTERY SPRING ASSY SWITCH LOCK LEVER		
80F	C1G1	P000264230	PCMCIA LOCK LEVER		
80G 80H 81-89	C1G1 C1G1	P000257770 P000258980 (Reserved)	EARTH SPRING BOTTOM CUSHION		
90 91	C1G1 C1G1	P000286210 P000286220	SHUTTER ASSEMBLY RTC BATTERY HOLDER		PC Card Slot Cover RTC Battery Cover
92	C1G1	P000286230	HDD EJECTOR ASSEMBLY		HDD Bracket
93 94	C1G1	P000295380 Not used	CD-ROM BRACKET		
94 95	C1G1	P000273720	EXPANSION CONN COVER		
96 97	C1G1 C1G1	P000286260 P000286340	BATTERY PCB STUD MODEM COVER		
S01	C1G1		SCREW M2.5X2.6B		
S02	C1G1	P000215140	SCREW M2X3C		
S03 S04	C1G1 C1G1		SCREW M2X6Z GRIP SCREW M2.5X5Z		
S05	C1G1	P000207950	GRIP SCREW M2X4Z		
S06 S07	C1G1 C1G1	P000233430 P000256890	SCREW M2.5X6Z TY SCREW M2.5X6BZ		
S08	C1G1	P000278250	GRIP SCREW M2X5.5Z		
S09 S10	C1G1 C1G1	P000209920 P000261930	SCREW M2.5X4Z GRIP SCREW M2X4BN		
S11	C1G1	P000225470	SCREW M2X10Z		
S12 S13	C1G1 C1G1	P000261220 P000244070	GRIP SCREW M2.5X6BN GRIP SCREW M2.5X8Z		
S14	C1G1	P000254870	GRIP SCREW M3X4Z		
S15 S16	C1G1 C1G1	P000267150 P000295460	GRIP SCREW M2.5X20B TG SCREW M2.5X4Z		
OP01	C1G1	KTT-SO100/32	32MB SDRAM MEMORY		Kingston 32MB SDRAM Memory Module
OP01-A	C1G1	KTT-SO100/64	64MB SDRAM MEMORY		Kingston 64MB SDRAM Memory Module
OP01-B OP02	C1G1 C1G1	KTT-SO100/128 PA2450U	128MB SDRAM MEMORY UNIVERSAL AC ADAPTER		Kingston 128MB SDRAM Memory Module "Input: 100-240VAC 0.95-0.55A 50/60Hz, Output: 15VDC 3A,
(U,C,Z)" OP03	C1G1	PA2487URG	BATTERY PACK		"Lithium-lon, 10.8V, 4,000mAh with Recycle Label"
OP04 OP5	C1G1 C1G1	PA2488U PA2717U	BATTERY CHARGER ENHANCED PORT REP. III		"(U,C,Z)" "U,C,Z"
OP5-A	C1G1	PA2717UN	ENHANCED PORT REP. III		"U,C,Z (Wave Gray)"
OP6 OP7	C1G1 C1G1	PA2730U PA3024U-1PRP	"ADAPTER, ENH PORT REP ENHANCED PORT REP. IV	III"	
OP7 OP8		PA30240-1PRP PA2731U	PORT REPLICATOR		"U,C,Z" BIOS updates can be obtained for the Toshiba Web Site
OP = Option					,
N/S = Not Showr	1				

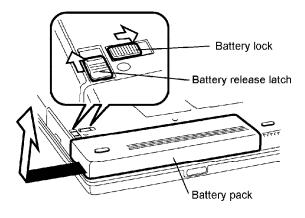
The information offered in this section is an overview of the Maintenance Manual, Chapter 4, Replacement Procedures. If you have any questions or concerns regarding the proper procedure please refer to the Maintenance Manual through the Toshiba Service and Support Website *before* you proceed.



This section explains how to remove Field Replaceable Units (FRUs). It may not be necessary to remove all the FRUs in order to replace one.

The chart is a guide to which FRUs need to be removed in order to remove others. The section numbers on the chart refer to the sections in the Maintenance Manual, Chapter 4.

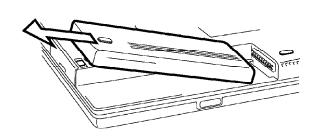
Always start by removing the battery pack, next, optional items such as the optional PC card and optional memory module, then follow the line on the chart to determine which FRU you must remove next in order to repair the one you think is causing the computer to operate improperly.

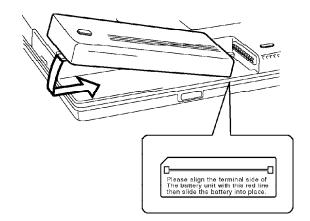


To remove the battery pack, follow the steps below.

- Turn off the power to the computer.
 Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- 2. Close the display if it is open.
- 3. Turn the computer upside down.
- 4. Slide the **battery lock** to free the **battery release latch**, then slide the battery release latch to pop the **battery pack** out about one centimeter to the left.
- A slight gap will open between the right end of the battery pack and the computer. Slip your fingers into the gap and pull the battery pack to the left until it stops (about 1 cm or half an inch).
- 6. Grasp the left end of the battery pack and lift it up to remove it.





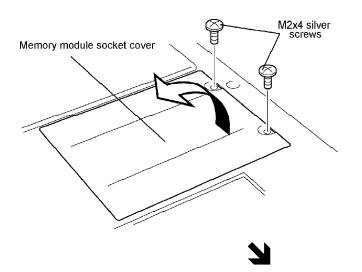


To install the battery pack, follow the steps below.

WARNING: The battery is a lithium ion battery and can explode if not properly replaced, used, handled, or disposed of. Use only batteries recommended by Toshiba as replacements.

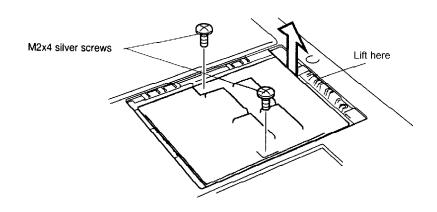
NOTE: Check the battery terminals before you install the battery. If they are dirty, wipe them clean with a dry cloth.

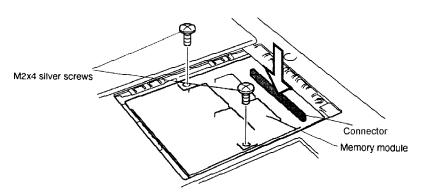
- Place the right end of the battery pack at the **red line** marked on an alignment guide. The battery pack should seat level with the computer.
- 2. Gently press down on the center of the battery pack and at the same time push it to the right. When the battery is nearly seated, you will feel a slight resistance. Press the battery in carefully until you feel it click into place, then lock the battery lock.



To remove the memory module from the computer, follow the steps below.

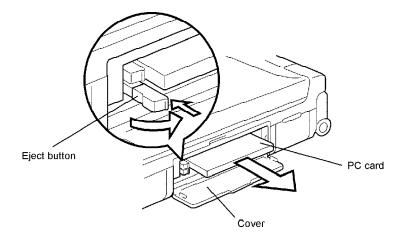
- Turn off the power to the computer.
 Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- 2. Remove the battery pack.
- 3. Turn the computer upside down.
- Remove two M2x4 silver screws securing the memory module socket cover.
- 5. Slide your fingernail or a thin object under the cover and remove it.
- Remove two M2x4 silver screws securing the module to a brace at the center of the module and set them aside.
- Insert a thin object under the upper edge of the module and lift up to disengage the connector, then grasp the module by the edges and remove it.





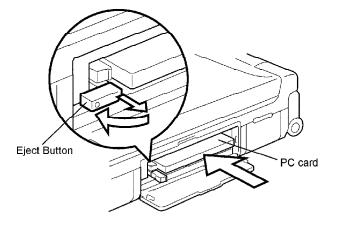
To install the memory module in the computer, follow the steps below.

- Position the connector on the bottom of the module over the corresponding connector on the computer (align the holes on the side of the module over the screw holes on the brace). Place your fingers above the connector and press firmly but gently to assure a solid connection. The module should be seated level.
- 2. Secure the module to the brace with two M2x4 silver screws.
- Lay the cover in place. Secure it with two M2x4 silver screws. If the memory module has a plastic tab, fold it down first then place the cover.
- When you turn the computer on, it should automatically recognize the total memory capacity. Verify that the added memory is recognized.
- Install the battery pack.



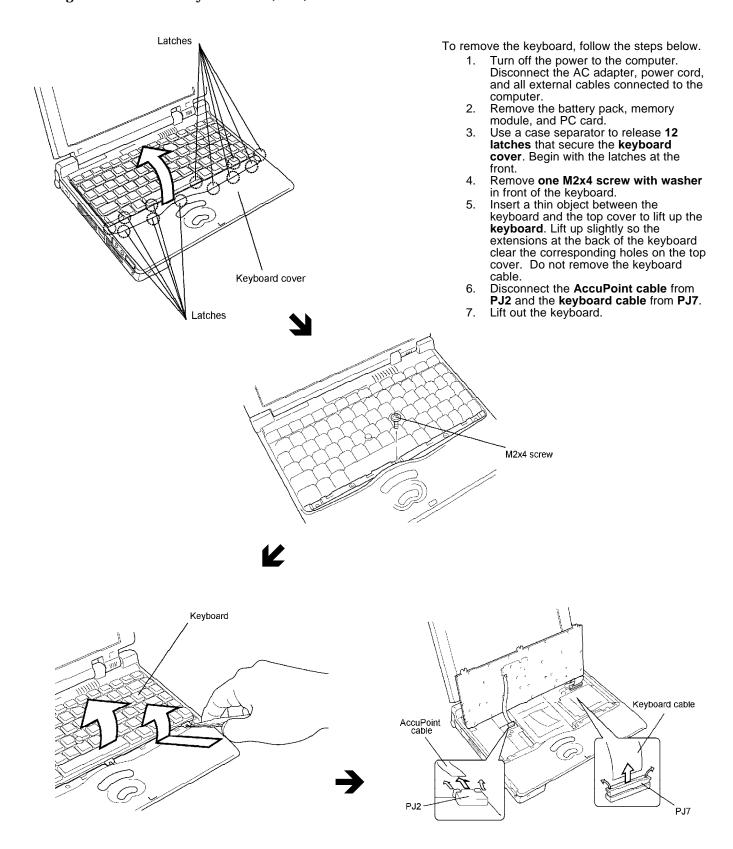
To remove the PC card from the computer, follow the steps below.

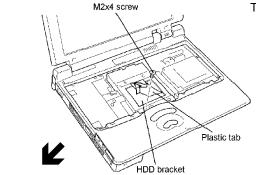
- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack.
 Open the **cover** to the PC card slot.
- Pull out the eject button for the card you want to remove and press the button. The card will pop out slightly. Grasp the **PC card** and pull it out.
- 5.



To install the PC card in the computer, follow the steps below.

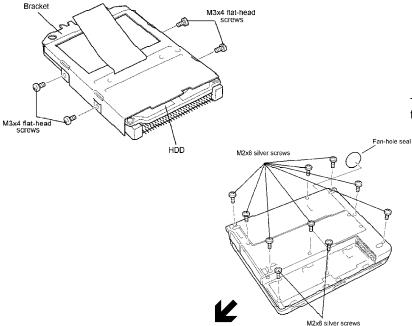
- Insert the PC card. When the card is almost fully seated, you will feel some resistance. Press gently to assure a firm connection, but do not force the card into position.
- When the card is fully seated, an **eject button** will pop out; the top button for the top connector and the bottom button for the bottom connector.
- 3. Pull the eject button slightly and bend it to lock the card.
- Close the cover.
- Install the battery pack.





To remove the HDD, follow the steps below.

- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, and keyboard. 2.
- 3. Remove one M2x4 screw securing the HDD bracket.
- Lift up on the **plastic tab** on the HDD bracket and lift up the HDD. Carefully pull the HDD to disconnect it 4.
- 5. from the connector then remove it.
- Remove four M3x4 flat-head screws 6. securing the bracket to the HDD and remove the bracket.

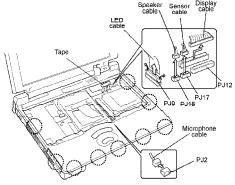


To remove the top cover and display assembly, follow the steps below.

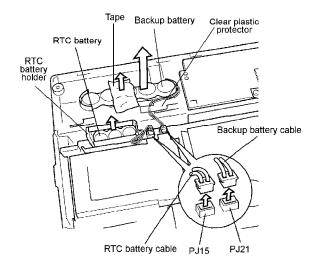
- Turn off the power to the computer.
 Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- 2. Remove the battery pack, memory module, PC card, keyboard, and HDD. Close the display and turn the computer
- 3. upside down.
- 4.
- Remove the fan-hole seal.
 Remove eight M2x8 silver screws from the bottom of the computer and two M2x6 silver screws from the battery seating area. These screws secure the top cover to the bottom cover.

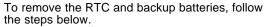
NOTE: If you remove the top cover, be sure to replace the fan hole seal with a new one.

- Turn the computer back over and open the display panel. Remove the tape, then disconnect the following cables: LED from PJ9, display from PJ12, speaker from PJ18, sensor from PJ17, and microphone from PJ2
- 7. Stand the computer on end and release nine latches securing the top cover. Begin with the latches along the front edge as shown.
- Work around to the side latches, then remove the top cover and display assembly.

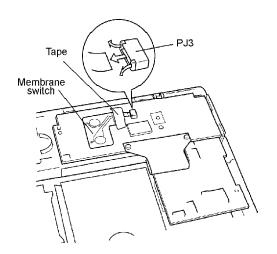






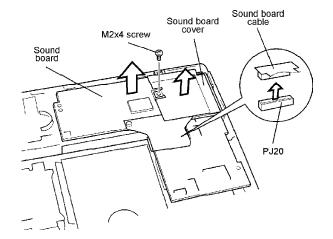


- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, keyboard, top cover and display assembly.
 Peel off the **tape** securing the **backup**
- 3. battery cable.
- 4. Disconnect the RTC battery cable from PJ15 on the system board. Slide the RTC battery and RTC battery
- holder free of the brackets holding it in place and remove the battery and battery holder.
- Use a thin object to carefully work the RTC battery out of the holder.
- Disconnect the backup battery cable from **PJ21** on the power supply board and lift out the battery. Note that the cable is routed under the clear plastic protector.



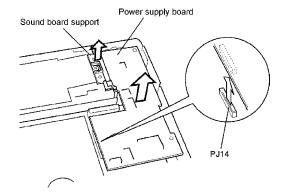
To remove the membrane switch, follow the steps below.

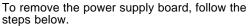
- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, keyboard, HDD, top cover and display assembly, RTC battery, and backup battery.
- Remove the tape from the membrane 3. switch cable.
- Disconnect the cable from PJ3 on the sound board and lift off the membrane switch.



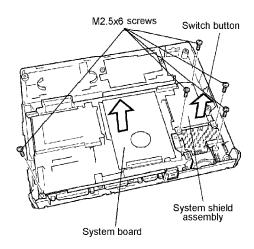
To remove the sound board, follow the steps below.

- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, keyboard, HDD, top cover and display assembly, RTC battery, backup battery, and membrane switch.
- 3. Remove one M2x4 screw.
- Remove the sound board cover.
- Disconnect the sound board cable 5. from PJ20.
- 6. Lift out the sound board.



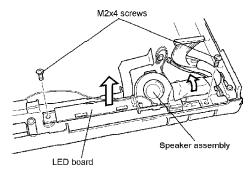


- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, keyboard, HDD, top cover and display assembly, RTC battery, backup battery, membrane switch, and sound board.
- Lift out the sound board support. 3.
- Disconnect the power supply board from PJ14 on the system board.
- 5. Lift out the power supply board.

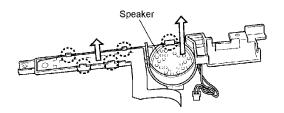


To remove the system board, follow the steps below.

- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, top cover and display assembly, HDD, RTC battery, backup battery, membrane switch, sound board, and power supply board. Remove **five M2x6 screws**.
- 3.
- 4.
- Lift out the system board.
 The system shield assembly will be 5. unattached. Be sure to note its position.
- Remove the switch button. 6.

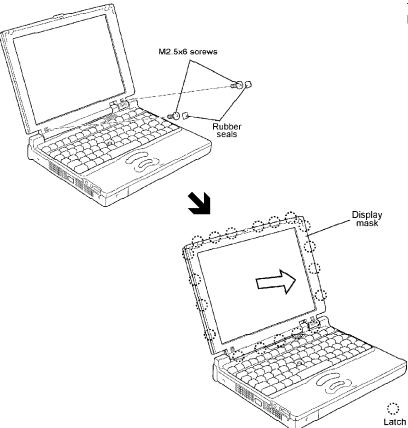






To remove the LED board and speaker, follow the steps below.

- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, keyboard, HDD, and top cover and display assembly.
- Remove two M2x4 screws.
- Remove the LED board and speaker 4. assembly.
 Release four latches to remove the
- 5. LED board.
- 6. Release one latch to remove the speaker.
- Remove the protective rubber cover.



To remove the display mask, follow the steps below.

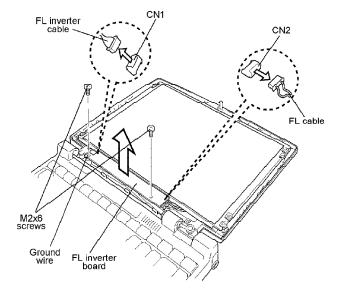
- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, and PC card.

NOTE: You do not have to remove the top cover and display assembly to remove the display mask.

- Remove two rubber seals from the display hinges to expose screws securing the display mask.
 Remove **two M2.5x6 screws** at the
- bottom corners of the display mask.

NOTE: When you remove the screws, support the back of the display panel with your hand.

- Slip your fingers between the top of the display cover and the display mask and pull out gently to release six latches.
- Start with the latches at the center. Continue around the plastic cover to release four latches on each side and five latches at the bottom.



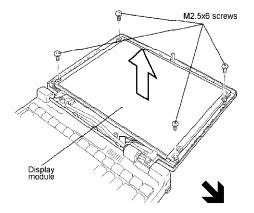
WARNING: If you have to turn on the power to check the FL inverter during disassembly, never touch the exposed areas that carry high-voltage.

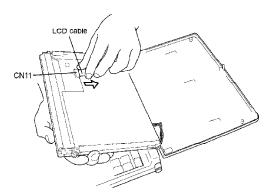
To remove the FL inverter board, follow the steps below.

- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory
- module, PC card, and display mask. Remove **two M2x6 screws** from the **FL** inverter board. Note the ground wire on the left screw.

NOTE: When you remove the screws. support the back of the display with your hand.

Turn the board over and disconnect the FL inverter cable from CN1 and the FL cable from CN2.





To remove the TFT color display module, follow the steps below.

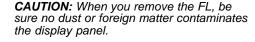
CAUTION: When you remove the FL unit, be careful that dust or other foreign matter does not contaminate the LCD panel. Any contamination can affect the performance of the unit.

- Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, display mask, and FL inverter board.
- Remove four M2x6 screws at each corner of the display module.

NOTE: When you remove the screws, support the back of the display with your hand.

- Rotate the display module partially out of the cover from left to right.
- Carefully disconnect the LCD cable 5. from the display panel.

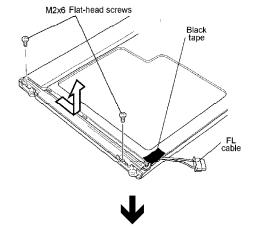
NOTE: When you secure the LCD cable, support the display panel with your hand.

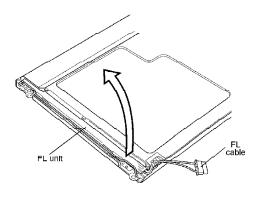


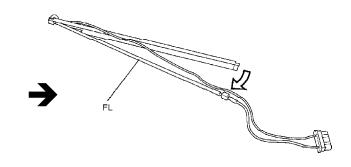
- To remove the FL, follow the steps below.

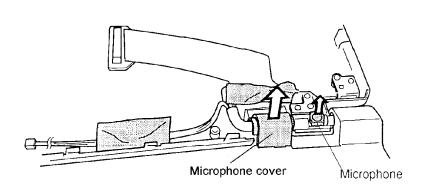
 1. Turn off the power to the computer. Disconnect the AC adapter, power cord, and all external cables connected to the computer.
 - Remove the battery pack, memory module, PC card, display mask, FL inverter board, and display module.
 - Place the **display module** face down and remove **two M2x6 flat-head** 3. screws securing the FL unit cover. Carefully slide the cover to the right,
 - then lift up to remove the FL unit cover.
 - 5. Remove the black tape.
 - Free the FL cable unit and remove it. Note how the FL cable is routed. Remove the **FL unit**.

 - Remove the FL.



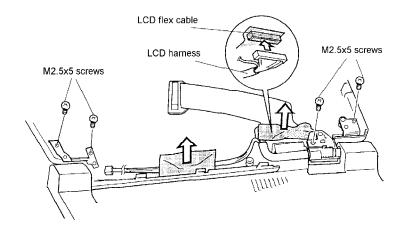






To remove the microphone, follow the steps below.

- Turn off the power to the 620CT.
 Disconnect the AC adapter, power cord,
 and all external cables connected to the
 computer.
- Remove the battery pack, memory module, PC card, display mask, FL inverter board, and display module.
 Pinch the microphone cover to free it
- Pinch the microphone cover to free it from two latches, then remove the cover.
- Remove the microphone.
- 5. Remove the **protective rubber cover** from the microphone.



To remove the display cable, follow the steps below.

- Turn off the power to the 620CT.
 Disconnect the AC adapter, power cord, and all external cables connected to the computer.
- Remove the battery pack, memory module, PC card, display mask, FL inverter board, display module, and microphone.
- Remove four M2.5x5 screws to release the cover assembly from the display assembly.
- Disconnect the LCD harness from the LCD flex cable and remove it from the unit.

Portégé 620CT Interrupts / Memory Map

Interrupt Assignments

Interrupt	Level	Assigned to:		
_	NMI	RAM Parity Error, I/O Channel Error		
	0	Timer		
	1	Keyboard		
	2	PIC 2 for level 8 to 15		
1	3	Secondary Communications (COM 2/4)*		
	4	Primary Communications (COM 1/3)*		
	5	PRT 2* / Sound system*		
	6	FDC		
	7	PRT 1* /Sound system*		
	8	RTC		
	9	sound system*		
	10	sound system*		
2	11	Reserved		
	12	PS/2 Mouse		
	13	Math co-processor		
	14	HDC		
	15	Reserved		

^{*} These I/O assignments are controlled by system setup.

System Memory Map

Address range	Space (Kbytes)	Use
'00000000' to '0009FFFF'	640	Conventional memory
'000A0000' to '000BFFFF'	128	Video RAM
'000C0000' to '000CFFFF'	64	Reserved
'000D0000' to '000DFFFF'	64	Reserved
'000E0000' to '000EFFFF'	64	VGA BIOS
'000F0000' to '000FFFFF'	64	System BIOS ROM (shadow RAM)
'00100000' to '007FFFF'	7,168	System working memory
'00800000' to '027FFFF'	32,768	Optional working memory
'02800000' to '0282FFFF'	192	The rest of system working memory
'02830000' to '07FDFFFF'		Memory expansion in expansion port
07FE0000' to '07FEFFFF	64	System Management RAM
'07FF0000' to '07FFFFF'	64	System BIOS ROM (duplicated)

Portégé 620CT Input/Ouput Port Assignments

Port Map

Port address	Device/function	Port address	Device/function
'000' to '01F'	82C37: DMA Controller 1	'280' to '2AF'	Not used
'020' to '03F'	82C59: PIC 1	'2A8' to '2AF'	Not used
'040' to '05F'	82C54: Timer	'2B0' to '2B7'	Not used
'060' to '06F'	KBC	'2B8' to '2BF'	Not used
'070'	NMI Mask Register	'2C0' to '2DF'	Not used
'070' to '07F	RTC	'2E8' to '2EF'	Not used
'080' to '09F	DMA Page Register	'2E0' to '2E7'	Serial Port 4 (COM 4)*
'0A0' to '0BF	82C59: PIC 2	'2E8' to '2EF'	Not used
'0C0' to '0DF'	82C37: DMA Controller 2	'2F0' to '2F7'	Serial Port 2 (COM 2)*
'0E0' to '0EF'	Special Register	'2F8' to '2FF'	Not used
'0F0' to '0F7'	Math Coprocessor	'320' to '31F	Not used
'100' to '1EF'	VGA	'330' to '33F'	Not used
'1F0' to '1FF'	HDC	'340' to '377'	Not used
'200' to '207'	Not used	'378' to '37F'	Parallel PRT 1*
'208' to '20F'	Not used	'380' to '387'	Not used
'210' to'217'	Not used	'388' to '38B	Sound system (OPL3)
'218' to '21F'	Not used	'38C' to '38F'	Not used
'202' to '20F'	Not used	'390' to '39F'	Not used
'210' to '217'	Not used	'3A0' to '3AF	Not used
'218' to '21F'	Not used	'3B0' to '3BF'	Parallel PRT 3*
'220' to '22F'	Sound system*	'3C0' to '3DF'	CGA, EGA, VGA
'230' to '23F'	Sound system*	'3E0' to '3E7'	Not used
'240' to '24F'	Sound system*	'3E8' to '3EF'	Serial Port 3(COM 3)*
'250' to '25F'	Sound system*	'3F0' to '3F7'	FDC, HDC
'260' to '26F'	Not used	'3F8' to '3FF'	Serial Port 1(COM 1)*
'270' to '277'	Not used	'400' to '47F'	Not used
'278' to '27F'	Parallel PRT 2*	'480' to '49F'	DMA Hi-Page Register

^{*} These port addresses can be specified by System Setup.