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COMPAQ

Maintenance and Service Guide

Compaq Evo Notebook N800c Series Compaq Evo Notebook N800v Series Compaq Evo Notebook N800w Series Compaq Presario 2800 Series Mobile PC

Document Part Number: 268135-004

April 2003

This guide is a troubleshooting reference used for maintaining and servicing the notebook. It provides comprehensive information on identifying notebook features, components, and spare parts, troubleshooting notebook problems, and performing notebook disassembly procedures.

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Product Description

The Compaq Presario 2800 and Evo Notebook N800 Series of Personal notebooks offer advanced modularity, Intel Mobile Pentium 4 processors with SpeedStep technology with 64-bit architecture, industry-leading Accelerated Graphics Port (AGP) implementation, and extensive multimedia support.



Figure 1-1. Compaq Presario 2800 and Evo Notebook N800

1.1 Models

Notebook models are shown in Tables 1-1 through 1-4.

Table 1-1 Compaq Evo Notebook N800c, Evo Notebook N800v, Evo Notebook 800w, and Presario 2800 Model Naming Conventions

						Key	<i>'</i>						
N80	Dw	Р	220	U5	50	W	С	51	0	XXXXXX-XXX			
1		2	3	4	5	6	7	8	9	10			
Key	Des	script	ion		Opti	ons							
1		nd/Se ignate				Evo N Presa	lotebo irio	ok		= 800 Series) = 2800 Series			
2	Pro	cesso	r type		P = 1	Intel F	Pentiur	n 4	•				
3	Pro	cesso	or speed	d	200 190	= 2.2 = 2.0 = 1.9 = 1.8	GHz GHz		160 = 150 =	= 1.7 GHz = 1.6 GHz = 1.5 GHz = 1.4 GHz			
4		play ty e/reso	•		P = 3	SXGA	A (160 A+ (140 (1024	00 × 1	1050)	050) $4 = 14.x$ -inch			
5	Har	d driv	e size			50 G 40 G	-			30 = 30 GB 20 = 20 GB			
6		ical d ignate			R =	CD-R	OM dr W driv ROM d	⁄e	W = DVD-RW drive Z = DVD/CD-RW drive				
7		grate	d cation		M = 0 = r	mode none	em		C = modem/NIC combination card				
8	RAI	М				512 384			25 = 256 MB 12 = 128 MB				
9	Operating system					Windo	ws 20	000		Windows XP Pro Windows XP Home			
10	10 SKU#								1				

Table 1-2 Compaq Evo Notebook N800c Models

The following Compaq Evo Notebook N800c models use config. code **KLMZ** and feature:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.0 Ah lithium ion (Li ion) battery pack
- 32 MB discrete video memory
- 3-year warranty on parts, labor, and on-site, next business day response

N800c	Р	220	P5	40	Z	С	25	2	
Belgium			470	053-7	80	The N	Nether	lands	470053-720
Czech Rep		470	Norw	ay		470053-721			
Denmark			470	053-7	11	Portu	gal		470053-722
European			470	053-7	12	Russ	ia		470053-723
Internati	onal					Saud	i Arabi	ia	470053-707
France			470	053-7	13	Slove	enia		470053-724
Germany			470	053-7	14	Spair			470053-725
Greece/Po	land		470	053-7	16	Swed	len/Fir	nland	470053-726
Hungary				053-7		Switz	erland		470053-727
Israel				053-7		Turke	-		470053-728
Italy			470053-719			Unite	d King	dom	470053-729
N800c	Р	220	P5	40	Z	С	25	0	
Belgium	•		470	052-8	69	The Netherlands			470052-884
Czech Rep	oublic		470	052-8	70	Norw	ay		470052-885
Denmark			470	052-8	75	Portu	gal		470052-886
European			470	052-8	77	Russ	ia		470052-887
Internati	onal					Saud	i Arabi	ia	470052-837
France			470	052-8	78	Slove	enia		470052-888
Germany			470	052-8	79	Spain			470052-889
Greece/Po	land		470	052-8	80	Sweden/Finland			470052-890
Hungary			-	052-8	-	Switzerland			470052-891
Israel							Turkey 4700		
Italy			470	052-8	83	Unite	d King	dom	470052-893

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

N800c	Р	180	P5	30	٧	С	25	2	
Belgium			470	052-8	16	The N	Vether	lands	470052-826
Czech Rep	oublic		470	470052-817			ay		470052-827
Denmark			470	052-8	Portu	gal		470052-828	
European			470	052-8	19	Russ	ia		470052-829
Internati	onal					Saud	i Arabi	a	470052-815
France			470	052-8	20	Slove	nia		470052-830
Germany			470	052-8	21	Spair			470052-832
Greece/Po	land		470	052-8	22		len/Fin		470052-833
Hungary			470	052-8	23	Switz	erland		470052-834
Israel			-	052-8		Turke			470052-835
Italy			470	052-8	25	United Kingdom			470052-836
N800c	Р	180	P5	30	V	С	25	0	
Belgium		•	470	052-7	55	The Netherlands			470052-765
Czech Rep	oublic		470	052-7	56	Norway			470052-766
Denmark			470	052-7	57	Portu	gal		470052-767
European			470	052-7	58	Russ	ia		470052-768
Internati	onal					Saud	i Arabi	а	470052-754
France			470	052-7	59	Slove	nia		470052-769
Germany			470	052-7	60	Spair	1		470052-770
Greece/Po	land		470	052-7	61	Sweden/Finland			470052-771
Hungary			470	052-7	62	Switzerland			470052-772
Israel			470	052-7	63	Turkey			470052-773
Italy			470	052-7	64	Unite	d King	dom	470052-774

Table 1-2
Compaq Evo Notebook N800c Models (Continued)

N800c	Р	180	X5	20	D	С	25	2	
Belgium Czech Rep Denmark European Internation France Germany Greece/Po Hungary Israel Italy	onal		470 470 470 470 470 470 470 470	0052-7 0052-7 0052-7 0052-7 0052-7 0052-7 0052-7 0052-7 0052-7	35 36 37 38 39 40 41 42	Norw Portu Russ Saud Slove Spair Swed Switz Turke	gal ia i Arabi enia n len/Fir erland	a	470052-744 470052-745 470052-746 470052-747 470052-733 470052-748 470052-749 470052-750 470052-751 470052-752 470052-753
N800c	Р	180	X5	20	D	С	20	0	
Denmark European Internation France Germany	elgium 470052-711 zech Republic 470052-712 enmark 470052-713 uropean 470052-716 International rance 470052-717 ermany 470052-718 reece/Poland 470052-719 ungary 470052-720 rael 470052-721				12 13 16 17 18 19 20 21	Norw Portu Russ Saud Slove Spair Swed Switz Turke	gal ia i Arabi enia n len/Fir erland	a nland	470052-723 470052-724 470052-725 470052-726 470052-710 470052-727 470052-728 470052-729 470052-730 470052-731 470052-732
N800c	Р	170	P5	30	V	С	25	2	
United Sta	tes		470	041-4	54				
N800c	Р	170	P5	30	٧	С	25	0	
United Sta	tes		470	041-4	55				
N800c	Р	170	P5	30	0	С	0	2	
United Sta	United States 470041-456								
N800c	Р	170	P5	30	0	С	0	0	
United Sta	tes		470	041-4	57				

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

The following Compaq Evo Notebook N800c models use config. code **KLMZ** and feature:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.0 Ah Li ion battery pack
- 32 MB discrete video memory
- 3-year warranty on parts and labor, 2-year warranty on on-site, next business day response

N800c	Р	200	P5	30	V	С	25	2			
Asia Pacifi	С	•	470	049-1	78	Latin	Ameri	ca	470049-171		
Australia			470	049-1	74	(NA	(NAFTA)				
Belgium			470	049-1	42	The N	Nether	lands	470049-152		
Brazil			470	049-1	72	Norw	ay		470049-154		
Czech Rep	oublic		470	049-1	43	Peop	le's		470049-180		
Denmark			470	049-1	44	Re	public				
European			470	049-1	45	of (China				
Internati	onal					Portu	gal		470049-155		
France			470	049-1	46	Russ	ia		470049-157		
French Ca	nada		470	049-1	39	Saud	i Arabi	а	470049-141		
Germany			470	049-1	47	Slove	enia		470049-158		
Greece/Po	land		470	049-1	48	Spair	ı		470049-159		
Hong Kong	9		470	049-1	82	Swed	len/Fir	land	470049-160		
Hungary			470	049-1	49	Switz	erland		470049-162		
India			470	049-1	79	Taiwa	an		470049-181		
Israel			470	049-1	50	Thaila	and		470049-177		
Italy			470	049-1	51	Turke	y y		470049-167		
Japan			470	049-1	69	Unite	d King	dom	470049-168		
Korea			470	049-1	83	Unite	d State	es	470049-138		
Latin Ame	rica		470	049-1	70						

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

N800c	Р	200	P5	30	٧	С	25	0			
Asia Pacifi	С		470	049-1	23	Latin	Ameri	ca	470049-115		
Australia			470	049-1	17	(NA	(NAFTA)				
Belgium			470	049-0	80	The N	Nether	lands	470049-094		
Brazil			470	049-1	16	Norw	ay		470049-096		
Czech Rep	oublic		470	049-0	81	Peop	le's		470049-129		
Denmark			470	049-0	83	Re	public				
European			470	049-0	84	of (China				
Internati	onal					Portu	gal		470049-097		
France			470	049-0	85	Russ	ia		470049-098		
French Ca	nada		470	049-0	78	Saud	i Arabi	a	470049-079		
Germany			470	049-0	86	Slove	enia		470049-099		
Greece/Po	land		470	049-0	87	Spair	ı		470049-100		
Hong Kong	9		470	049-1	33	Swed	len/Fir	land	470049-101		
Hungary			470	049-0	88	Switz	erland		470049-105		
India			470	049-1	25	Taiwa	an		470049-132		
Israel			470	049-0	89	Thaila	and		470049-120		
Italy			470	049-0	90	Turke	y		470049-107		
Japan			470	049-1	09	Unite	d King	dom	470049-108		
Korea			470	049-1	36	Unite	d State	es	470049-077		
Latin Ame	rica		470	049-1	13						

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

The following Compaq Evo Notebook N800c models use config. code **KLMZ** and feature:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.0 Ah Li ion battery pack
- 32 MB discrete video memory
- 3-year warranty on parts and labor

N800c	Р	180	U5	50	W	С	51	0	
Belgium			470	035-3	93	The Netherlands			470035-436
Czech Rep	oublic		470	470035-396			ay		470035-440
Denmark			470	035-3	99	Portu	gal		470035-449
European			470	035-4	12	Russ	ia		470035-459
Internati	onal					Saud	i Arabi	a	470035-373
France			470	035-4	16	Slove	nia		470035-462
Germany			470	035-4	20	Spair	1		470035-465
Greece/Po	land		470	035-4	24	Swed	len/Fir	ıland	470035-468
Hungary			470	035-4	27	Switz	erland		470035-471
Israel			470	035-4	30	Turkey			470035-474
Italy			470	035-4	33	United Kingdom			470035-477
N800c	Р	180	P5	50	W	С	51	2	
Asia Pacifi	С		470	035-2	64	Latin	Ameri	ca	470035-210
Australia			470	035-2	59	(NA	AFTA)		
Brazil			470	035-2	53	Peop	le's		470035-271
French Ca	French Canada 470035-197								
Hong Kong	470	035-2	80	of China					
Japan			470	035-2	04	Taiwan			470035-274
Korea			470	035-2	84	United States			470035-190
Latin Ame	rica		470	035-2	09				

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

N800c	Р	180	P5	50	W	С	51	0	
	Asia Pacific 470035-30							ca	470035-299
Australia			470035-305			-	AFTA)		
Brazil				035-3	-	Peop			470035-308
French Ca			-	035-2			public		
Hong Kong)			035-3	-		China		
Japan			-	035-2		Taiwa			470035-309
Korea			-	035-3	-	Unite	d State	es	470035-289
Latin Amer	rica		470	035-2	97				
N800c	Р	170	P5	40	W	С	25	2	
Asia Pacifi	С		470	035-3	04	Latin	Ameri	ca	470035-294
Australia			470	035-3	01	(NA	AFTA)		
Brazil			470035-298			People's			470035-311
French Ca	nada		470035-282			Re	public		
Hong Kong)		470035-315			of (China		
Japan			470035-287			Taiwa	an		470035-313
Korea			470	035-3	17	United States		es	470035-278
Latin Amer	rica		470	035-2	90				
N800c	Р	170	P5	40	W	С	25	0	
Asia Pacifi	С		470	035-3	03	Latin	Ameri	ca	470035-292
Australia			470	035-3	00	(NA	AFTA)		
Brazil			470	035-2	96	Peop	le's		470035-306
French Canada 47				035-2	81		public		
Hong Kong 470035-314					14	of China			
Japan 470035-285 Korea 470035-316					85	Taiwa	an		470035-312
Korea	1					Unite	d State	es	470035-276
Latin Amer	rica		470	035-2	88				

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

N800c	Р	170	X5	30	V	С	25	2	
Asia Pacifi	Asia Pacific 470035-260						Ameri	ca	470035-254
Australia	Australia 470035-258								
Belgium			470	035-2	28	The N	Nether	lands	470035-238
Brazil			470	035-2	56	Norw	ay		470035-239
Czech Rep	oublic		470	035-2	29	Peop	le's		470035-262
Denmark			470	035-2	30	Re	public		
European			470	035-2	31	of (China		
Internati	onal					Portu	gal		470035-240
France			470	035-2	32	Russ	ia		470035-241
French Ca	nada		470	035-2	26	Saud	i Arabi	а	470035-227
Germany			470	035-2	33	Slove	nia		470035-243
Greece/Po	land		470	035-2	34	Spair	1		470035-244
Hong Kong)		470	035-2	66	Swed	len/Fir	land	470035-245
Hungary			470	035-2	35	Switz	erland		470035-247
Israel			470	035-2	36	Taiwa	เท		470035-265
Italy			470	035-2	37	Turke	y.		470035-248
Japan			470	035-2	50	Unite	d King	dom	470035-249
Korea			470	035-2	68	United States			470035-225
Latin Amer	rica		470	035-2	52				

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

N800c	Р	170	X5	30	٧	С	25	0	
Asia Pacific	С		470	035-0	33		Ameri	ca	470035-048
Australia			470	035-0	31	(NA	AFTA)		
Belgium			470	035-0	80	The N	Nether	lands	470035-018
Brazil			470	035-0	30	Norw	ay		470035-019
Czech Rep	ublic		470	035-0	09	Peop	le's		470035-035
Denmark			-	035-0	-		public		
European			470	035-0	11		China		
Internation	onal					Portu	_		470035-020
France			-	035-0		Russ			470035-021
French Ca	nada			035-0			i Arabi	а	470035-007
Germany				035-0	_	Slove			470035-022
Greece/Po				035-0		Spair			470035-023
Hong Kong)			035-0			len/Fir		470035-024
Hungary				035-0			erland		470035-025
Israel				035-0	-	Taiwa			470035-036
Italy				035-0		Turke			470035-026
Japan				035-0	-		d King		470035-027
Korea			-	035-0	-	Unite	d State	es	470035-005
Latin Amer	ıca		470	035-0	29				
N800c	Р	160	X5	20	V	С	25	2	
Asia Pacifi	С		470	035-2	03	Latin	Ameri	ca	470035-196
Australia			470	035-2	01	(NA	AFTA)		
Brazil			470035-199			Peop	le's		470035-206
French Ca	nada		470035-192			Republic			
Hong Kong	j		470035-211			of 0	China		
Japan			470035-193			Taiwa	ın		470035-208
Korea			470035-212			United States			470035-191
Latin Amer	rica		470	035-1	94				

Table 1-2 Compaq Evo Notebook N800c Models (Continued)

N800c	Р	160	X5	20	٧	С	25	0	
Asia Pacifi Australia	С		-	035-2 035-2	-		Ameri AFTA)	ca	470035-217
Brazil			470	035-2	18	Peop	le's		470035-221
French Ca	nada		470	035-2	14		public		
Hong Kong	9			035-2			China		
Japan				035-2		Taiwa			470035-222
Korea			-	470035-224 470035-216			d State	es	470035-213
Latin Amer	rica		470	035-2	16				
N800c	Р	160	X5	20	D	С	25	2	
Belgium			470	035-3	75	The N	Nether	lands	470035-434
Czech Rep	oublic		470	035-3	94	Norw	ay		470035-437
Denmark			470	035-3	97	Portu	_		470035-447
European						Russ			470035-457
Internati	onal		-	035-4	-		i Arabi	а	470035-369
France			-	035-4	-	Slove			470035-460
Germany			-	035-4		Spain			470035-463
Greece/Po	land		-	035-4		Sweden/Finland			470035-466
Hungary			-	035-4	-	Switzerland			470035-469
Israel			-	035-4	-	Turke			470035-472
Italy			4/0	035-4	31	Unite	d King	aom	470035-475
N800c	Р	160	X5	20	D	С	25	0	
Belgium			470	035-3	77	The N	Nether	lands	470035-435
Czech Rep	oublic		470	035-3	95	Norw	ay		470035-439
Denmark			470	035-3	98	Portu			470035-448
European			470	035-4	11	Russ			470035-458
Internati	onal						i Arabi	а	470035-370
France			470035-415			Slovenia			470035-461
Germany			470035-418			Spain			470035-464
Greece/Po	land		470035-423 470035-426			Sweden/Finland			470035-467
Hungary			-		-		erland		470035-470
Israel			-	035-4	-	Turkey United Kingdom			470035-473
Italy			470	035-4	32	Unite	a King	aom	470035-476

Table 1-3 Compaq Evo Notebook N800v Models

The following Compaq Evo Notebook N800v models use config. code **KSQZ** and feature:

- TouchPad pointing device
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 1-year warranty on parts and labor

N800v	Р	200	P5	40	W	С	25	0	
French Ca	French Canada			044-4	32	Unite	d State	es	470044-406

The following Compaq Evo Notebook N800v models use config. code **KSQZ** and feature:

- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 32 MB of discrete video memory
- 1-year warranty on parts and labor

N800v	Р	200	P5	40	W	С	25	2	
Belgium			470	70053-885 Norway					470053-898
Czech Rep	oublic		470	053-8	86	Portu	gal		470053-899
Denmark			470	053-8	88	Russ	ia		470053-901
European			470	053-8	89	Saud	i Arabi	а	470053-884
Internati	onal					Slove	enia		470053-902
France			470	053-8	90	Spair	1		470053-903
Greece/Po	land		470	053-8	92	Swed	len/Fir	land	470053-904
Hungary			470	053-8	93	Switz	erland		470053-905
Israel			470	053-8	94	Turke	y y		470053-906
Italy			470	053-8	95	Unite	d King	dom	470053-907
The Nethe	rlands		470	053-8	96				

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	200	P5	40	W	С	25	0	
Belgium			470	053-8	58	Norw	ay		470056-874
Czech Rep	oublic		470	053-8	59	Portu	gal		470053-875
Denmark			470	053-8	60	Russ	ia		470053-876
European			470	053-8	61	Saud	i Arabi	а	470053-877
Internati	onal					Slove	nia		470053-857
France				053-8		Spair			470053-878
Greece/Po	land			053-8	-		len/Fir		470053-879
Hungary				053-8			erland		470053-880
Israel			-	053-8		Turke			470053-881
Italy				053-8		Unite	d King	dom	470053-882
The Nethe	rlands		470	053-8	73				
N800v	Р	180	P5	40	W	С	25	2	
Belgium			470	053-7	70	Norw	ay		470053-788
Czech Rep	oublic		470	053-7	71	Portu	gal		470053-789
Denmark			470	053-7	72	Russ	ia		470053-790
European			470	053-7	75	Saud	i Arabi	a	470053-769
Internati	onal					Slove	nia		470053-791
France			470	053-7	76	Spair			470053-795
Greece/Po	land		470053-779				len/Fir		470053-796
Hungary			470053-780			Switzerland			470053-797
Israel			470053-781			Turkey			470053-798
Italy			470053-786			United Kingdom			470053-800
The Nethe	rlands		470053-787						

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	180	P5	40	W	С	25	0			
Belgium			470	053-7	39	Norw	av		470053-754		
Czech Rep	oublic		-	053-7		Portu	•		470053-755		
Denmark			470	053-7	46	Russ	_		470053-756		
European			470	053-7	47	Saud	i Arabi	ia	470053-738		
Internati	onal					Slove	nia		470053-757		
France			470	053-7	48	Spair	1		470053-758		
Greece/Po	land		470	053-7	49	Swed	len/Fir	nland	470053-759		
Hungary			470	053-7	50	Switz	erland		470053-760		
Israel			470	053-7	51	Turke	y		470053-765		
Italy			470	053-7	52	Unite	d King	dom	470053-766		
The Nethe	The Netherlands				470053-753						
N800v	Р	180	X5	30	٧	С	25	2			
Belgium			470	059-6	54	Norw	ay		470059-665		
Czech Rep	oublic		470	059-6	55	Portu	gal		470059-666		
Denmark			470	059-6	56	Russ	ia		470059-667		
European			470	059-6	57	Saud	i Arabi	ia	470059-653		
Internati	onal					Slove	nia		470059-668		
France			470	059-6	58	Spair	1		470059-669		
Greece/Po	land		470	059-6	59	Swed	len/Fir	nland	470059-670		
Hungary			470059-660			Switzerland			470059-671		
Israel			470059-661			Turkey			470059-673		
Italy			470059-662			United Kingdom			470059-674		
The Nethe	rlands		470	059-6	64						

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	180	X4	30	٧	С	25	2			
Belgium			470	053-8	31	Norw	ay		470053-847		
Czech Rep	oublic		470	053-8	36	Portu			470053-848		
Denmark			470	053-8	38	Russ	ia		470053-849		
European			470	053-8	39	Saud	i Arabi	a	470053-850		
Internati	onal					Slove	nia		470053-830		
France			470	053-8	41	Spair	1		470053-851		
Greece/Po	land		470	053-8	42	Swed	len/Fir	land	470053-852		
Hungary			470	053-8	43	Switz	erland		470053-853		
Israel				053-8		Turke	,		470053-854		
Italy			-	053-8	_	Unite	d King	dom	470053-855		
The Nethe	rlands		470	053-8	46						
N800v	Р	180	X4	30	V	С	25	0			
Belgium			470	053-8	04	Norw	ay		470053-816		
Czech Rep	oublic		470	053-8	06	Portu	gal		470053-817		
Denmark			470	053-8	80	Russ	ia		470053-818		
European			470	053-8	09	Saud	i Arabi	a	470053-803		
Internati	onal					Slove	nia		470053-819		
France			470	053-8	10	Spair	1		470053-820		
Greece/Po	land		470053-811			Sweden/Finland			470053-821		
Hungary			470053-812			Switzerland			470053-822		
Israel			470053-813			Turkey			470053-823		
Italy			470053-814			Unite	d King	dom	470053-827		
The Nethe	rlands		470	053-8	15						

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	170	P5	40	W	С	25	2			
Belgium			470	044-5	31	Norw	ay		470044-541		
Czech Rep	oublic		470	044-5	32	Portu	-		470044-542		
Denmark			470	044-5	33	Russ	ia		470044-543		
European			470	044-5	34	Saud	i Arabi	a	470044-530		
Internati	onal					Slove	enia		470044-544		
France			470	044-5	35	Spair	1		470044-545		
Greece/Po	land		-	044-5		Swed			470044-546		
Hungary				044-5		_ · · · · · · -	erland		470044-547		
Israel				044-5		Turke			470044-548		
Italy				044-5		Unite	d King	dom	470044-549		
The Nethe	Netherlands 470044-54										
N800v	Р	170	P5	40	W	С	25	0			
Belgium	•		470	044-4	86	Norw	ay		470044-512		
Czech Rep	oublic		470	044-4	88	Portu	gal		470044-514		
Denmark			470	044-4	96	Russ	ia		470044-516		
European			470	044-5	01	Saud	i Arabi	a	470044-483		
Internati	onal					Slove	enia		470044-518		
France			470	044-5	03	Spair			470044-520		
Greece/Po	land		470044-505			Sweden			470044-521		
Hungary			470044-506			Switzerland			470044-523		
Israel			470044-507			Turkey			470044-526		
Italy			470044-508 470044-511			United Kingdom			470044-527		
The Nethe	rlands		470	044-5	11						

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	170	X4	30	٧	С	25	2			
Belgium			470	044-7	10	Norw	ay		470044-720		
Czech Rep	oublic		470	044-7	11	Portu	gal		470044-721		
Denmark			470	044-7	12	Russ	ia		470044-722		
European			470	044-7	13	Saud	i Arabi	а	470044-707		
Internati	onal					Slovenia			470044-723		
France			470	044-7	14	Spair	1		470044-724		
Greece/Po	land		470	044-7	15	Swed	len		470044-725		
Hungary			470	044-7	16	Switz	erland		470044-726		
Israel			470	044-7	17	Turke			470044-727		
Italy			470	044-7	18	United Kingdom			470044-728		
The Nethe	rlands		470	044-7	19						
N800v	Р	170	X4	30	٧	С	25	0			
Belgium			470	044-5	51	Norway			470044-561		
Czech Rep	oublic		470	044-5	52	Portu	gal		470044-562		
Denmark			470	044-5	53	Russ	ia		470044-563		
European			470	044-5	54	Saud	i Arabi	а	470044-550		
Internati	onal					Slove	nia		470044-564		
France			470	044-5	55	Spair	1		470044-565		
French Ca	nada		470	035-2	00	Swed	len		470044-566		
Greece/Po	land		470044-556			Switz	erland		470044-567		
Hungary			470044-557			Turkey			470044-568		
Israel			470044-558			United Kingdom			470044-569		
Italy			470044-559			United States			470035-202		
The Nethe	rlands		470	044-5	60						

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	160	P5	30	W	С	25	0	
Belgium			470	035-7	59	Norw	ay		470035-779
Czech Rep	oublic		470	035-7	60	Portu	-		470035-781
Denmark .			470	035-7	63	Russ	ia		470035-782
European			470	035-7	68	Saud	i Arabi	a	470035-757
Internati	onal					Slova	ıkia		470035-784
France			470	035-7	70	Spair	ı		470035-785
Greece/Po	land		470	035-7	71	Swed	len/Fir	land	470035-787
Hungary			470	035-7	73	Switz	erland		470035-788
Israel				035-7		Turke	,		470035-790
Italy				035-7		Unite	d King	dom	470035-791
The Nethe	rlands		470	035-7	78				
N800v	Р	160	X4	20	V	С	25	0	
Belgium	•		470	035-2	07	Norway			470035-270
Czech Rep	oublic		470	035-2	42	Portu	gal		470035-272
Denmark			470	035-2	46	Russ	ia		470035-273
European			470	034-2	51	Saud	i Arabi	a	470035-205
Internati	onal					Slove	enia		470035-275
France			470	035-2	55	Spair	1		470035-277
French Ca	nada			035-1		Swed	len/Fir	land	470035-279
Greece/Po	land		470035-257			Switz	erland		470035-283
Hungary			470035-261			Turkey			470035-286
Israel			470035-263			United Kingdom			470035-703
Italy			470035-267			Unite	d State	es	470035-195
The Nethe	rlands		470	035-2	69				

Table 1-3 Compaq Evo Notebook N800v Models (Continued)

The following Compaq Evo Notebook N800v models use config. code **KSRZ** and feature:

- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 32 MB of discrete video memory
- 2-year warranty on parts and labor

N800v	Р	200	P5	40	W	С	51	2	
Germany			470	053-9	80				
N800v	Р	200	P5	40	W	С	51	0	
Germany			470	053-8	83				
N800v	Р	180	P5	40	W	С	51	2	
Germany			470	053-8	01				
N800v	Р	180	P5	40	W	С	25	0	
Germany			470	053-7	67				
N800v	Р	180	X4	30	V	С	25	2	
Germany			470	053-8	56				
N800v	Р	180	X4	30	V	С	25	0	
Germany			470	053-8	29				
N800v	Р	170	P5	40	W	С	25	2	
Germany			470	045-6	06				
N800v	Р	170	P5	40	W	С	25	0	
Germany			470	045-6	05				

Table 1-3
Compaq Evo Notebook N800v Models (Continued)

N800v	Р	170	X4	30	V	С	25	2	
Germany			470	045-6	08				
N800v	Р	170	X4	30	V	С	25	0	
Germany			470	045-6	07				
N800v	Р	160	X4	20	٧	С	25	0	
Germany			470	035-2	91				
N800v	Р	180	X5	30	V	С	25	0	

The following Compaq Evo Notebook N800v models use config. code **LLYZ** and feature:

- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 32 MB of discrete video memory
- 1-year warranty on parts and labor

N800v	Р	180	X5	30	٧	С	25	0	
Belgium	Į.		470	059-6	34	Norw	ay		470059-644
Czech Rep	oublic		470	059-6	35	Portu	gal		470059-645
Denmark			470	059-6	36	Russ	ia		470059-646
European			470	059-6	37	Saud	i Arabi	а	470059-633
Internati	onal					Slove	nia		470059-647
France			470	059-6	38	Spair	ı		470059-648
Greece/Po	land		470	059-6	39	Swed	len/Fir	land	470059-649
Hungary			470	059-6	40	Switz	erland		470059-650
Israel			470	059-6	41	Turke	ey .		470059-651
Italy			470	059-6	42	Unite	d King	dom	470059-652
The Nethe	rlands		470	059-6	43				

Table 1-4 Compaq Evo Notebook N800w Models

The following Compaq Evo Notebook N800w models use config. code **LDF1** and feature:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 3-year warranty on parts, labor, and on-site, next business day response

N800w	Р	220	U5	50	W	С	51	2	
French Ca	rench Canada 470043-588						d State	es	470043-584
N800w	Р	220	U5	50	W	С	51	0	
French Ca	nada		470	043-5	75	Unite	d State	es	470043-574

The following Compaq Evo Notebook N800w models use config. code **LDFZ** and feature:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 3-year warranty on parts and labor

N800w	Р	220	U5	50	W	С	51	2	
Asia Pacific			470	043-6	80	Latin	Ameri	ca	470043-605
Australia			470	043-6	06	The N	Nether	lands	470043-599
Belgium			470	043-5	92	Peop	le's		470043-609
European			470	047-4	93	Re	public		
Internation	onal					of (China		
France			470	043-5	96	Spair	1		470043-600
Germany			470	043-5	97	Swed	len/Fir	land	470051-457
Hong Kong	l		470	043-6	11	Switz	erland		470043-602
Italy			470	043-5	98	Taiwa	an		470043-610
Japan			470	051-4	59	Unite	d King	dom	470043-604
Korea			470	043-6	12				

Table 1-4
Compaq Evo Notebook N800w Models (Continued)

N800w	Р	220	U5	50	W	С	51	0	
Asia Pacifi Australia Belgium European Internati France Germany Hong Kong Italy	onal		470 470 470 470 470 470	0043-5 0043-5 0047-4 0043-5 0043-5 0043-5	89 76 95 78 79	Latin America The Netherlands People's Republic of China Sweden/Finland Spain Switzerland Taiwan			470043-587 470043-581 470043-591 470051-460 470043-583 470043-585 470043-593
Korea				043-5			d King	dom	470043-586
N800w	Р	200	P5	50	D	С	51	2	
Japan			470	051-4	63				
N800w	Р	200	P5	40	W	С	25	2	
Belgium European Internation France Germany Italy	onal		470 470 470	0043-6 0043-6 0043-6 0043-6	96 15 16	Spair Swed Switz	Nethern Nen/Fir Nerland Nerland	nland	470043-618 470043-619 470051-461 470043-620 470043-621
N800w	Р	200	P5	40	W	С	25	0	
Belgium European Internation France Germany Italy	onal		470 470 470	0043-6 0043-6 0043-6 0043-6	97 24 25	The Netherlands Spain Sweden/Finland Switzerland United Kingdom			470043-633 470043-634 470051-462 470043-635 470043-636

Table 1-4 Compaq Evo Notebook N800w Models (Continued)

The following Compaq Evo Notebook N800w model uses config. code **LMBZ** and features:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 3-year warranty on parts, labor, and on-site, next business day response

N800w	Р	220	U5	50	W	С	51	0	
French Ca	nada		470	052-4	22	Unite	d State	es	470052-361
N800w	Р	220	U5	50	W	С	51	2	
French Ca	nada		470	052-4	21	Unite	d State	es	470052-128

The following Compaq Evo Notebook N800w model uses config. code **LMBZ** and features:

- Dual pointing device (TouchPad and pointing stick)
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 3-year warranty on parts and labor

N800W	Р	200	P5	40	W	С	25	2	
Norway			470	060-0	60				
N800W	Р	200	P5	40	W	С	25	0	
Norway			470	060-0	61				

Table 1-5 Compaq Presario 2800 Models

The following Compaq Presario 2800 models use config. code **KSQZ** and feature:

- Diskette drive
- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 1-year warranty on parts and labor

N800w	Р	220	U5	50	W	С	51	2	
A : D :			470	050.0	00				470050 000
Asia Pacific			-	052-3	-	Latin America The Netherlands			470052-388
Australia			-	052-3				lands	470052-368
Belgium			-	052-3	-	Norw	-		470060-058
Denmark			-	052-3		Peop			470052-393
European			470	052-3	64		public		
Internation	onal						China		
France			470	052-3	65	Spair	1		470052-369
Germany			470	052-3	66	Swed	len/Fir	nland	470052-375
Hong Kong			470	052-3	97	Switz	erland		470052-385
Italy			470	052-3	67	Taiwa	an		470052-396
Japan			470	052-4	01	Unite	d King	dom	470052-387
Korea			470052-399						
N800w	Р	220	U5	50	W	С	51	0	
Asia Pacific			470	052-4	16	Latin	Ameri	ca	470052-414
Australia			470	052-4	15	The Netherlands			470052-409
Belgium			470	052-4	02	Norw	ay		470060-059
Denmark			470	052-4	03	Peop	le's		470052-417
European			470	052-4	04	Re	public		
Internation	onal					of (China		
France			470	052-4	05	Spair	ı		470052-410
Germany			470	052-4	06	Sweden/Finland			470052-411
Hong Kong	l		470	052-4	19	Switzerland			470052-412
Italy			470	052-4	80	Taiwan			470052-418
Japan			470	059-0	58	United Kingdom			470052-413
Korea			470	052-4	20				

Table 1-5	
Compaq Presario 2800 Models (Continue	ed)

P2838	Р	220	P5	50	W	С	25	E	
Taiwan	ı	l	470	048-5	47				
P2868	Р	220	P5	40	Z	С	25	Е	
Korea			470	057-6	43				
P2832	Р	220	P5	40	W	С	51	Е	
Hong Kong)		470	048-5	42				
P2838	Р	220	X5	40	W	С	51	Е	
Asia Pacifi	С		470	047-5	39	Austr	alia		470047-533
P2844	Р	220	X4	40	W	С	25	Е	
Asia Pacifi	С		470	050-9	12				
P2830	Р	200	U5	50	W	С	51	Е	
Asia Pacifi	С		470	045-9	96	Austr	alia		470045-995
P2867	Р	200	P5	40	Z	С	25	Е	
Korea			470	057-6	42				
P2822	Р	200	P5	40	W	С	51	Е	
Hong Kong	9		470	044-6	92		•		
P2827	Р	200	P5	40	W	С	25	Е	
Taiwan			470	044-6	97				
P2837	Р	200	P5	40	٧	С	25	Е	
Taiwan			470	048-5	46				
P2845	Р	200	X5	40	W	С	51	Е	
Korea			470	051-4	66	Thail	and		470051-465
P2837	Р	200	X5	40	W	С	25	Е	
Asia Pacifi India	С			047-5 050-9	-	Korea Thail			470048-533 470047-515

Table 1-5
Compaq Presario 2800 Models (Continued)

P2871	Р	200	X5	30	٧	С	25	Е	
Hong Kong	9		470	057-6	46				
P2831	Р	200	X5	40	٧	С	25	Е	
People's R of China			470						
P2840	Р	200	X4	40	W	С	51	Е	
Hong Kong	9		470	050-9	10				
P2866	Р	200	X4	30	Z	С	25	Е	
Korea			470	057-6	41				
P2820	Р	190	U5	40	W	С	51	Е	
Asia Pacifi Korea	С	1	-	044-5		Thailand			470044-579
P2840	Р	190	P5	40	W	С	51	Е	
Korea			470	048-5	34				
P2825	Р	190	P5	40	W	С	51	Е	
European Internati France Greece/Po			470	044-5 045-9 045-9	92		i Arabi erland y		470044-574 470046-565 470046-566
P2820	Р	190	P5	40	W	С	25	Е	
Korea	I	I	470	044-6	83				
P2826	Р	190	P5	30	W	С	25	Е	
Taiwan	1	I	470	044-6	96				
2830	Р	190	X5	40	٧	С	25	Е	
People's R of China			470	047-5	04				

Table 1-5	
Compaq Presario 2800 Models (6	Continued)

2836	Р	190	X5	30	W	С	25	Е	
Asia Pacific 470047-512 India 470048-514							and		470047-513
P2870	Р	190	X5	30	V	С	25	E	
Hong Kong		470							
P2869	Р	190	X5	30	D	С	25	E	
Hong Kong		470							
P2820	Р	190	X4	40	W	С	25	E	
People's Republic 470044-698 of China									
P2865	Р	190	X4	30	V	С	25	Е	
Korea	orea 470057-640								
P2832	Р	190	X4	30	V	С	25	Е	
People's Republic 470051-464 of China									
P2864	Р	190	X4	30	D	С	25	Е	
Korea 470057-639									
P2820	Р	180	U5	40	W	С	51	E	
Asia Pacific 470036-651 Korea 470037-983						Thailand			470037-984
P2828	Р	180	P5	40	W	С	51	Е	
Korea 470044-630									
P2821	Р	180	P5	40	W	С	51	Е	
Hong Kong 470038-884									
P2821	Р	180	P5	40	W	С	51	Е	
Australia 470044-686									

Table 1-5	
Compaq Presario 2800 Models ((Continued)

P2810	Р	180	P5	40	W	С	51	Е	
People's Republic 470037-116 of China									
P2830	Р	180	P5	40	W	С	25	Е	
Australia			470	047-5	18				
P2823	Р	180	P5	40	W	С	25	E	
India			470	044-6	25				
P2815	Р	180	P5	40	W	С	25	Е	
Australia			47	0037-	986				
P2820	Р	180	P5	40	R	С	25	Е	
Taiwan			47	0036-	661				
P2822	Р	180	X5	40	W	С	25	Е	
France 470046-890									
P2863	Р	180	X5	40	D	С	25	Е	
Korea 470057-638									
P2831	Р	180	X4	40	W	С	25	Е	
Hong Kong 470048-541									
P2835	Р	180	X4	30	W	С	25	Е	
Asia Pacific 470047-511 Hong Kong 470048-532						Thailand			470047-509
P2821	Р	180	X4	30	W	С	25	Е	
Hong Kong 470044-691									
P2821	Р	180	X4	30	٧	С	25	Е	
People's Republic 470044-699 of China									

Table 1-5	
Compaq Presario 2800 Models (6	Continued)

P2814	Р	170	P5	40	W	С	51	Е	
Australia	alia 470036-653						a		470037-985
P2816	Р	170	P5	30	W	С	51	Е	
European International France Greece/Poland Hungary Israel			470034-897 470034-898 470034-900 470034-902 470034-904			Russia Saudi Arabia Switzerland Turkey United Kingdom			470034-910 470034-893 470034-962 470034-924 470034-925
P2808	Р	170	P5	30	W	С	51	0	
European Internati	European 470036-402 International								
P2817	Р	170	P5	30	V	С	25	Е	
Taiwan			470	036-6	60				
P2818	Р	170	X5	40	W	С	25	Е	
France	France 470040-192								
P2806	Р	170	X4	40	V	С	25	Е	
People's Republic 470036-655 of China									
P2816	Р	170	X4	30	W	С	25	Е	
Taiwan 470037-123									
P2818	Р	160	P5	40	W	С	25	Е	
India 470036-647									
P2817	Р	160	X4	40	W	С	25	E	
Hong Kong 470037-371									
P2819	Р	160	X4	30	V	С	25	E	
Hong Kong 470037-372									

Table 1-5	
Compaq Presario 2800 Models (Continued	I)

P2804	Р	160	X4	30	V	С	25	Ε	
People's R of China	036-6	54							

The following Compaq Presario 2800 models use config. code **KSQZ** and feature:

- Diskette drive
- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 32 MB of discrete video memory
- 1-year warranty on parts and labor

•									
P2820	Р	200	X5	40	W	С	51	E	
United Stat	470								
P2836	Р	200	X4	40	٧	С	25	Е	
Taiwan			470	048-5	45				
P2839	Р	190	X4	40	٧	С	25	Е	
Taiwan	Taiwan 470050-109								
P2811	Р	180	X5	40	W	С	51	Е	
United States 470037-370									
P2841	Р	180	X5	30	W	С	25	Е	
Korea			470	048-5	35				
P2821	Р	180	X5	30	W	С	25	Е	
Asia Pacific			470	044-5	83	Thaila	and		470044-582
P2820	Р	180	X5	30	W	С	25	Е	
European			470	044-5	71	Russ	ia		470046-887
•	International					Saud	i Arabi	a	470044-570
Greece/Pol	Greece/Poland 470044-572				72	Switzerland			470052-338
Hungary				75				470046-562	
Israel			470	044-5	73		,		

Table 1-5
Compaq Presario 2800 Models (Continued)

P2821	Р	180	X5	30	W	С	25	0	
European Internati	European 470047-498 International								
P2834	Р	180	X4	40	٧	С	25	Е	
Taiwan			470	048-5	44				
2843	Р	180	X4	30	٧	С	25	Е	
Hong Kong	9		470	048-5	38	Korea	a		470048-539
P2825	Р	180	X4	30	٧	С	25	Е	
Taiwan			470	044-6	95				
2839	Р	180	X4	30	٧	С	12	Е	
Asia Pacifi	a Pacific 470052-501								470047-520
P2830	Р	180	X4	30	D	С	25	E	
Korea			470	048-5	40				
P2833	Р	180	X4	20	٧	С	25	Е	
Taiwan			470	048-5	43				
P2825	Р	170	X5	30	W	С	25	Е	
Korea			470	044-6	27				
P2819	Р	170	X5	30	W	С	25	E	
Asia Pacifi	С		470	037-1	19	Thaila	and		470037-988
P2824	Р	170	X5	30	٧	С	12	Е	
India			470	044-6	26				
P2826	Р	170	X5	30	R	С	25	Е	
Korea			470	044-6	28				
P2820	Р	170	X5	20	W	С	25	Е	
United Sta	tes		470	052-5	00				

Table 1-5
Compaq Presario 2800 Models (Continued)

P2827	Р	170	X5	20	٧	С	25	Е	
Korea			470	044-6	29				
P2830	Р	170	X4	30	W	С	25	Е	
Saudi Arab	oia		470	044-5	76	Turke	y		470046-569
P2828	Р	170 X4 30 W				С	25	Е	
Hong Kong	3		470	045-9	97				
P2837	Р	170	X4	30	W	С	25	0	
Turkey			470	048-1	88				
P2835	Р	170	X4	30	V	С	25	Е	
European Internati	European 470044-578 International						Saudi Arabia 4700		
P2832	Р	170	X4	30	٧	С	25	Е	
Korea			470	046-8	95				
P2829	Р	170	X4	30	٧	С	25	E	
Taiwan			470	046-9	01				
P2820	Р	170	X4	30	V	С	25	Е	
Hong Kong	9		470	044-6	90				
P2831	Р	170	X4	30	D	С	25	Е	
Korea			470	046-8	97				
P2822	Р	170	X4	20	W	С	25	Е	
Asia Pacifi	С		470	044-6	24	Thaila	and		470044-623
P2820	Р	170	X4	20	W	С	25	Е	
United Sta	tes		470	052-4	99				
P2824	Р	170	X4	20	V	С	25	Е	
Taiwan			470	044-6	94				

	Table 1-5 Compaq Presario 2800 Models <i>(Continued)</i>												
P2823	Р	170	X4	20	R	С	25	Е					
Australia			470	044-6	88				I				
P2829	Р	170	X4	20	D	С	25	Е					
Korea	II.	l	470	044-6	31			ı					
P2823	Р	170	X4	20	D	С	25	Е					
Taiwan			470	044-6	93								
P2810	Р	160	P5	40	W	С	51	Е					
Asia Pacifi	a Pacific 470033-264					Korea	a		470033-266				
P2802	Р	160	P5 40 W			С	51	Е					
People's R of China	C	47	470033-179										
P2810	Р	160	P5	40	R	С	25	Е					
Hong Kong	9		47	0033-	190	Taiwan			470033-186				
P2818	Р	160	X5	30	W	С	25	E					
Korea			470	037-9	82								
P2811	Р	160	X5	30	W	С	25	Е					
European International France Greece/Poland Hungary Israel			470 470 470	470034-949 470034-950 470034-951 470034-952 470034-953			ia i Arabi erland y d King		470034-955 470034-947 470034-958 470034-959 470034-960				
P2806	Р	160	X5	30	W	С	25	0					
European Internati	European 470036-400 International												
P2816	Р	160	X5	30	٧	С	12	Е					
India		•	470	036-6	46								

Table 1-5
Compaq Presario 2800 Models (Continued)

P2817	Р	160	X5	30	R	С	25	Е	
Korea			470	037-9	80				
P2811	Р	160	X5	20	W	С	25	Е	
Switzerlan	d		47	0037-	978				
P2816	Р	160 X5 20 V			С	25	Е		
Korea			470	037-9	79				
P2817	Р	160	X4	30	W	С	25	E	
France			47	0040-	689				
P2813	Р	160	X4	30	W	С	25	Е	
Hong Kong	9		47	0038-	960				
P2815	Р	160	X4	30	V	С	25	E	
Hong Kong	Hong Kong 470041-601								470036-659
P2813	Р	160	X4	30	R	С	25	Е	
Australia			4700	36-65	2				
P2817	Р	160	X4	20	W	С	25	Е	
Saudi Aral	oia		47	0038-	963				
P2814	Р	160	X4	20	W	С	25	Е	
Asia Pacifi	С		47	0037-	987	Thaila	and		470036-656
P2801	Р	160	X4	20	W	С	25	Е	
Turkey			47	0043-	744				
P2801	Р	160	X4	20	V	С	25	Е	
European			470	034-9	11	Russ		_	470034-919
Internati France	onai		470	034-9	12	Saudi Arabia Switzerland			470034-903 470034-961
Greece/Po	land			034-9		Turkey			470034-922
Hungary			470	034-9	15				470034-923
Israel			470	034-9	16				

Со	Table 1-5 Compaq Presario 2800 Models (Continued)										
Р	160	X4	20	V	С	25	0				
		47	0036-								

P2804	Р	160	X4	20	٧	С	25	0	
European Internation	onal		47	/ 0036-	398				
P2812	Р	160	X4	20	R	С	25	Е	
Australia	l.	11	470	040-8					
P2815	Р	160	X4	20	D	С	25	Е	
Asia Pacifi	С	1	47	0041-	560	Korea	a		470036-648
P2812	Р	160	X4	20	D	С	25	Е	
Taiwan			47	0036-	658				
P2810	Р	150	P5	40	W	С	51	Е	
Australia			470	033-2					
P2809	Р	150	P5	40	W	С	25	Е	
India			470	65					
P2815	Р	150	P5	30	W	С	51	Е	
European Internati France	International 470033-226 France 470033-227 Greece/Poland 470033-228 Hungary 470033-229 Israel 470033-232 Portugal 470033-233						ia i Arabi enia n erland ey d King		470033-239 470033-222 470033-240 470033-241 470033-242 470033-244 470033-245
Hong Kong]		47	0033-	191	Taiwa	an		470033-185
P2803	Р	150	P5	30	W	С	25	Е	
Hong Kong]		47	0033-	199	Taiwan			470033-183
P2807	Р	150	X5	30	W	С	25	Е	
Asia Pacifi	С		470	033-1	70	Korea	a		470033-173

Table 1-5	
Compaq Presario 2800 Models	(Continued)

P2804	Р	150	X5	30	٧	С	25	Е	
Hong Kong	9		47	0033-	198	Taiwan			470033-184
P2806	Р	150	X5	30	R	С	25	Е	
Asia Pacifi	С		47	0033-	176	Korea	a		470033-174
P2801	Р	150	X4	40	V	С	25	E	
People's R of China	•		47	0033-	178				
P2802	Р	150	X4	30	٧	С	25	Е	
Hong Kong	9		47	0033-	200	Taiwa	an		470033-182
P2805	Р	150	X4	30	R	С	25	Е	
Australia			47	0033-	267				
P2812	Р	140	X5	30	W	С	25	E	
Sweden/Fi	nland		47	0035-	708				
P2810	Р	140	X5	30	W	С	25	Е	
Czech Rep	oublic	•	470	033-1	92	Russ	ia		470033-209
European			470	033-1	93	Saud	i Arabi	а	470033-189
Internati	onal					Slove			470033-210
France				033-1	-	Spair			470033-211
Greece/Po	land			033-1			erland		470033-212
Hungary				033-1		Turke			470033-213
Israel				033-2	-	Unite	d King	dom	470033-214
Portugal			4/(033-2	08				
P2804	Р	140	X5	30	٧	С	25	Е	
India			470	033-2	69				

Table 1-5
Compaq Presario 2800 Models (Continued)

P2805	Р	140	X5	20	W	С	25	E	
European	Czech Republic 470033-135 European 470033-136 International						ia i Arabi enia	а	470033-143 470033-133 470033-144
France Greece/Po Hungary Israel	land		470033-137 470033-138 470033-139 470033-140			Spain Switzerland Turkey United Kingdom			470033-145 470033-146 470033-147 470033-148
Portugal	T		470	033-1	41				
P2805	Р	140	X5	20	V	С	25	E	
Asia Pacifi	С		47	0033-	268	Korea			470033-270
P2812	Р	140	X4	40	W	С	25	Е	
Asia Pacifi	С		470	035-1	88				
P2811	Р	140	X4	30	V	С	25	Е	
Asia Pacifi	С		470	035-1	89				
P2801	Р	140	X4	30	٧	С	25	Е	
Hong Kong	9		47	0033-	205	Taiwa	เท		470033-181
P2800	Р	140	X4	30	٧	С	25	Е	
	People's Republic 470033-177 of China								
P2801	Р	140	X4	30	٧	С	12	Е	
India	ı	1	470	033-2	59			1	

Table 1-5
Compaq Presario 2800 Models (Continued)

P2810	Р	140	X4	20	W	С	25	E	
Latin Ame	Latin America 47033-256						Ameri AFTA)	ca	470034-524
P2802	Р	140	X4	20	W	С	25	Е	
Spain			47	0035-	707				
P2800	Р	140	X4	20	V	С	25	Е	
Czech Rep European Internati France Greece/Po Hungary Israel Portugal	onal		470 470 470 470 470	0033-1 0033-1 0033-1 0033-1 0033-1 0033-1	12 13 14 15 16	Slove Spair Switz Turke	i Arabi enia n erland		470033-118 470033-110 470033-119 470033-120 470033-121 470033-122 470033-123
P2800	Р	140	X4	20	D	С	25	Е	
Asian Paci Hong Kong	Asian Pacific 470033-258 Hong Kong 470033-206						a an		470033-261 470033-180 and 470033-260
P2800	Р	140	X4	20	R	С	25	Е	
Australia	•		470	033-1	68				

The following Compaq Presario 2800 models are available in the United States and feature:

- TouchPad pointing device
- 8-cell, 4.0 Ah Li ion battery pack
- 32 MB discrete video memory
- 1-year warranty on parts and labor

P2800	Р	170	P5	30	W	С	25	Е	281630-001			
This mode communication diskette dr		config. code KSQ1										
P2810	Р	150	P5	30	W	С	51	E	470033-094			
	This model includes a MultiPort 802.11b wireless communication device and a MultiBay battery pack.											
P2800	Р	140	X5	30	W	С	51	E	470033-089			
	config. code											
									KSQ2			
P2801	Р	140	X5	30	W	С	38	E	•			
P2801	Р	140	X5	30	W	С	38	E	KŠQ2			
P2801	P	140	X5	30	W	С	38	E	KSQ2 470034-500 config. code			

The following Compaq Presario 2800 models use config. code **KSRZ** and feature:

- Diskette drive
- TouchPad pointing device
- 8-cell, 4.0 Ah Li ion battery pack
- 32 MB discrete video memory
- 2-year warranty on parts and labor

		1							
P2821	Р	180	X5	30	W	С	51	Е	
Denmark			470	046-5	68				
P2820	Р	180	X5	30	W	С	25	E	
Germany Portugal				045-6 045-6		Spair	1		470045-611
P2836	Р	180	X4	30	W	С	25	Е	
Spain			470	045-6	15				
P2811	Р	160	X5	30	W	С	25	Е	
Belgium			470	034-9	46	Norw	ay		470034-940
Denmark			470	034-9	45	Portugal			470041-458
Germany			470	034-9	44	Spain			470040-193
Italy			470	034-9	43	Sweden/Finland			470034-938
The Nethe	rlands		470	034-9	42				
P2812	Р	160	X4	20	W	С	25	Е	
Spain			470	038-3	87				
P2801	Р	160	X4	20	٧	С	25	Е	
Belgium			470	034-9	26	The N	Nether	lands	470034-933
Denmark			470	034-9	27	Norway			470034-934
Germany			470	034-9	29	Sweden/Finland			470034-936
Italy			470	034-9	31				

Table 1-5
Compaq Presario 2800 Models (Continued)

P2815	Р	150	P5	30	W	С	25	Е	
Belgium Denmark Germany Italy		470033-246 470033-247 470033-250 470033-252				The Netherlands Norway Sweden/Finland			470033-253 470033-254 470034-319
P2810	Р	140	X5	30	W	С	25	E	
Belgium Denmark Germany Italy			470 470	033-2 033-2 033-2 033-2	16 17	The Netherlands Norway Sweden/Finland			470033-219 470033-220 470034-318
P2805	Р	140	X5	20	V	С	25	E	
Belgium Denmark Germany Italy			470 470	033-1 033-1 033-1 033-1	50 51	The Netherlands Norway Sweden/Finland			470033-153 470033-154 470034-317
P2800	Р	140	X4	20	٧	С	25	Е	
Belgium Denmark Germany Italy		,	470 470	033-1 033-1 033-1 033-1	25 26	The Netherlands Norway Sweden/Finland			470033-128 470033-131 470033-459

The following Compaq Presario 2800 models use config. code **KSRZ** and feature:

- Diskette drive
- TouchPad pointing device
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB discrete video memory
- 2-year warranty on parts and labor

P2825	Р	190	P5	40	W	С	51	Е	
Denmark Germany	ı			046-8 045-6		Italy Swed	len/Fir	nland	470045-614 470046-889
P2826	Р	190	P5	40	W	С	51	0	
European Internati	onal		470	047-5	00				
P2822	Р	180	X5	40	W	С	25	Е	
Sweden/Fi	nland		470	047-5	03				
P2816	Р	170	P5	30	W	С	51	Е	
Belgium Denmark Germany Italy			470 470	0034-9 0034-9 0034-9 0034-9	30 32	The Netherlands Norway Sweden/Finland			470034-937 470034-939 470034-941
P2817	Р	160	X5	30	W	С	25	Е	
Sweden/Fi	nland		470	039-4	66				

The following Compaq Presario 2800 models use config. code **LLXZ** and feature:

- Diskette drive
- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 64 MB of discrete video memory
- 1-year warranty on parts and labor

P2884	Р	240	U5	50	W	С	51	Е	
Korea			470	060-0	36				
P2875	Р	240	P5	50	W	С	51	Е	
Asia Pacifi	С		470	060-0	21	India			470060-022
P2880	Р	240	P5	50	W	С	25	Е	
Taiwan			470	060-0	30				
P2873	Р	220	U5	40	Z	С	51	E	
Korea			470	059-0	57				
P2872	Р	220	P5	40	Z	С	51	Е	
Australia			470	059-0	54				
P2860	Р	220	P5	40	Z	С	51	Е	
Hong Kong	9		470	054-6	80				
P2878	Р	220	P5	40	W	С	51	Е	
Hong Kong	9		470	060-0	26				
P2886	Р	220	X5	40	W	С	25	Е	
People's Republic of 470060-039 China									
P2874	Р	220	X5	40	W	С	25	E	
India			470	060-0	17				

Table 1-5
Compaq Presario 2800 Models (Continued)

P2883	Р	220	X5	40	٧	С	25	Е	
Korea	Korea 470060-035								
P2859	Р	220	X5	40	V	С	25	Е	
People's R of China		0	470	054-6	79				
P2885	Р	220	X4	40	W	С	25	Е	
People's R China	epublic	c of	470	060-0	38				
P2858	Р	200	P5	40	Z	С	51	Е	
Korea			470	054-6	78				
2877AP	Р	200	P5	40	W	С	25	Е	
Hong Kong	9		470	060-0	25				
P2857	Р	200	X5	40	Z	С	25	Е	
Asia Pacifi India	С)054-6)054-6		Taiwa Thaila			470054-677 470054-674
2876AP	Р	200	X5	30	٧	С	25	Е	
Hong Kong	9		470	060-0	24				
P2856	Р	200	X4	40	V	С	25	Е	
People's Republic 470054-673 of China									
2879AP	Р	200	X4	30	V	С	25	Е	
Taiwan 470060-027									
2882AP	Р	200	X4	30	D	С	25	Е	
Korea			470	060-0	34				

Table 1-5
Compaq Presario 2800 Models (Continued)

P2855	Р	190	X5	40	Z	С	25	Е	
Asia Pacifi Hong Kong India	-		470054-669 470054-672 470054-670		Taiwa Thail			470054-671 470054-668	

The following Compaq Presario 2800 models use config. code **LLXZ** and feature:

- Diskette drive
- TouchPad
- 8-cell, 4.4 Ah Li ion battery pack
- 32 MB of discrete video memory
- 1-year warranty on parts and labor

P2854	Р	190	X5	30	Z	С	25	Е	
Hong Kong)		470	054-6	66	Korea	a		470054-667
P2853	Р	190	X5	30	٧	С	25	Е	
Hong Kong	long Kong 470054-665				Korea	a		470057-637	
P2852	Р	190	X4	30	V	С	25	Е	
Korea			470	054-6	64				
P2851	Р	190	X4	30	D	С	25	E	
Korea	a 470054-663				63				
P2850	Р	190	X4	30	D	С	12	E	
Asia Pacifi India	С	470054-660 470054-661			Thaila	and		470054-659	

The following Compaq Presario 2800 models are available in North America and feature:

- TouchPad pointing device
- 8-cell, 4.0 Ah Li ion battery pack
- 32 MB discrete video memory
- 1-year warranty on parts and labor

P2811	Р	160	X5	30	W	С	25	Е	
Canada (English)			470	470037-115		French Canada			470037-114
P2810	Р	150	P5	40	W	С	51	Е	
French Ca	nada		470033-095			United States			470033-096
P2800	Р	140	X5	30	W	С	25	E	
French Ca	nada	•	470033-090			United States			470033-091

1.2 Features

- The following processors are available, varying by notebook model:
 - ☐ Intel Mobile Pentium 4 2.4-, 2.2-, 2.0-, 1.9-, 1.8-, 1.7-, 1.6-, 1.5-, or 1.4-GHz processor with SpeedStep technology, with 256-KB integrated L2 cache or
 - ☐ Intel Mobile Pentium 4 2.0-, 1.8-, 1.6-, or 1.5-GHz processor (non-SpeedStep technology), with 256-KB integrated L2 cache
- ATI Mobile Radeon 9000 or ATI P7 graphics controller with 32 to 64 MB of shared SDRAM and 4X AGP graphics card, varying by notebook model
- 128-MB high-performance Synchronous DRAM (SDRAM), expandable to 1.0 GB
- Microsoft Windows 2000, Windows XP Home, or Windows XP Professional, varying by notebook model
- 15.0-inch UXGA (1600 × 1200), SXGA+ (1400 × 1050), or XGA (1024 × 768), or 14.1-inch XGA (1024 × 768), TFT display with over 16.7 million colors, varying by notebook model
- Full-size Windows 98 keyboard with:
 - ☐ TouchPad pointing device (Presario 2800 and Evo Notebook N800c models)
 - ☐ TouchPad and point stick (Evo Notebook N800c models only)
- Network interface card (NIC) integrated on the system board, with a mini PCI V.92 modem
- Integrated wireless support of 802.11b and Bluetooth devices through MultiPort
- Support for one Type I or II PC Card slot with support for both 32-bit CardBus and 16-bit PC Cards
- External 65 W AC adapter with power cord

■ 8-cell lithium ion (Li ion) battery pack 50-, 40-, 30-, or 20-GB high-capacity hard drive, varying by notebook model Support for the following drives through the MultiBay: □ 1.44-MB diskette drive □ 24X Max CD-ROM drive ■ 8X Max CD-RW drive ■ 8X Max DVD-ROM drive ■ 8X Max DVD-CDRW combination drive □ 40- or 30-GB hard drive □ LS-120 drive 8-cell battery pack ■ JBL Pro stereo speakers with bass reflex ■ Dolby Digital certified sound Connectors for: □ RJ-45 network □ RJ-11 modem Universal Serial Bus □ Parallel devices □ External monitor ☐ AC power ☐ Stereo line out/headphone ☐ Mono microphone

S-video

□ Port replicator Infrared

1.3 Clearing a Password

If the notebook you are servicing has an unknown password, follow these steps to clear the password. These steps also clear CMOS:

- 1. Prepare the notebook for disassembly (refer to Section 5.3, "Preparing the Notebook for Disassembly," for more information).
- 2. Remove the real time clock (RTC) battery (refer to Section 5.17, "Disk Cell RTC Battery").
- 3. Wait approximately five minutes.
- 4. Replace the RTC battery and reassemble the notebook.
- 5. Connect AC power to the notebook. Do **not** reinsert any battery packs at this time.
- 6. Turn on the notebook.

All passwords and all CMOS settings have been cleared.

1.4 Power Management

The notebook comes with power management features that extend battery operating time and conserve power. The notebook supports the following power management features:

- Standby
- Hibernation
- Setting customization by the user
- Hotkeys for setting level of performance
- Smart battery that provides an accurate battery power gauge
- Battery calibration
- Lid switch Standby/resume
- Power/Standby button
- Advanced Configuration and Power Management (ACP) compliance

1.5 Notebook External Components

The external components on the front and right side of the notebook are shown in Figure 1-2 and described in Table 1-6.

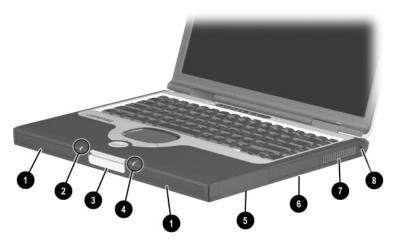


Figure 1-2. Front and Right Side Components

Table 1-6 Front and Right Side Components

Item	Component	Function			
1	Stereo speakers (2)	Produce stereo sound.			
2	Power/Standby light	On: Power is turned on.			
		Off: Power is turned off.			
		Blinking: Notebook is in Standby mode.			
3	Display release latch	Opens the notebook.			
4	Battery light	On: A battery pack is charging.			
		Blinking: A battery pack that is the only available power source has reached a low-battery condition.			
5	Battery bay	Accepts an 8-cell lithium ion (Li ion) battery pack.			
6	Hard drive bay	Supports the removable primary hard drive. The hard drive is secured to the notebook by one screw.			
7	Vent	Allows airflow to cool internal components.			
	CAUTION: To prevent damage, the notebook shuts down if an overheating condition occurs. Do not block the cooling vent. Avoid placing the notebook on a blanket, rug, or other flexible surface that may cover the vent area.				
8	Security cable slot	Attaches an optional security cable to the notebook.			

The notebook rear panel and left side components are shown in Figure 1-3 and described in Table 1-7.

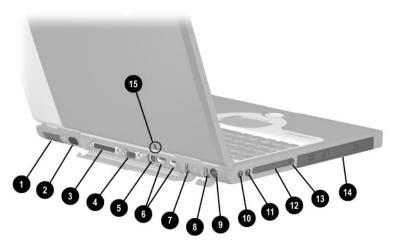


Figure 1-3. Rear Panel and Left Side Components

Table 1-7 Rear Panel and Left Side Components

Item	Component	Function		
1	Vent	Allows airflow to cool internal components.		
	CAUTION: To prevent damage, the notebook shuts down if an overheating condition occurs. Do not block the cooling vent. Avoid placing the notebook on a blanket, rug, or other flexible surface that may cover the vent area.			
2	Infrared port	Provides wireless communication between the notebook and another infrared-equipped device using an infrared beam.		
3	Parallel connector	Connects a parallel device.		

Table 1-7
Rear Panel and Left Side Components (Continued)

Item	Component	Function
4	External monitor connector	Connects an external monitor or overhead projector.
5	S-Video connector	Connects a television, VCR, camcorder, or overhead projector.
6	USB connectors (2)	Connect USB 2.0- and 1.1-compliant devices.
7	RJ-11 modem jack	Connects the modem cable to an internal modem. A modem cable is included with internal modem models.
8	RJ-45 network jack	Connects the network cable. A network cable is not included with the notebook.
9	DC power jack	Connects any one of the following:
		AC adapter
		 Optional automobile power adapter/charger
		 Optional aircraft power adapter
10	Mono microphone jack	Connects a monoaural microphone, disabling the built-in microphone.
11	Stereo speaker/ headphone jack	Connects stereo speakers, headphones, headset, or television audio.
12	PC Card slot	Supports a 32-bit (CardBus) or 16-bit PC Card.
13	PC Card eject button	Ejects a PC Card from the PC Card slot.
14	MultiBay	Accepts MultiBay devices, such as a diskette drive, optical drive, hard drive, or optional battery pack.

The notebook keyboard components are shown in Figure 1-4 and described in Table 1-8.

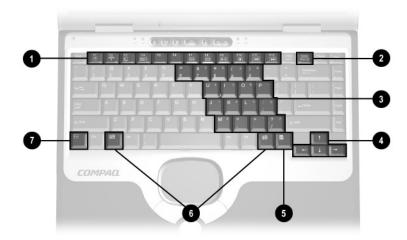


Figure 1-4. Keyboard Components

Table 1-8 Keyboard Components

Item	Component	Function
1	F1 through F12 function keys	Perform preset functions.
2	Num lock key	On: Num lock is on and the internal keypad is enabled.
3	Internal keypad	Converts keys to numeric keypad.
4	Cursor control keys	Move the cursor around the screen.
5	Windows application key	Displays a menu when using a Microsoft application. The menu is the same one that is displayed by pressing the right mouse button.
6	Windows logo keys	Display the Windows Start menu.
7	Fn key	Used with hotkeys to perform preset hotkey functions.

The notebook top components are shown in Figure 1-5 and described in Table 1-9.

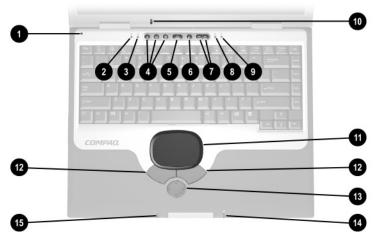


Figure 1-5. Top Components

Table 1-9
Top Components

Item	Component	Function
1	Display lid switch	Turns off the notebook display if the notebook is closed while on.
2	Power light	On: Power is turned on.
		Blinking: Notebook is in Standby mode. The power light also blinks if a battery pack that is the only available power source reaches a low-battery condition.
3	Num lock light	On: Num lock is on and the internal keypad is enabled.
4	Easy Access Buttons (3)	Provide quick access to the Internet. Refer to the <i>Hardware Guide</i> that ships with the notebook for information about these buttons.

Table 1-9
Top Components (Continued)

Item	Component	Function
5	Power button	Turns on the notebook. Use the operating system Shut Down command to turn off the notebook.
6	Digital audio button	Launches Windows Media Player to play MP3 music.
7	Volume control buttons	Adjust the volume of the stereo speakers.
8	Caps lock light	On: Caps lock is on.
9	Drive indicator light	Turns on when the hard drive, CD-, or DVD-ROM drive is accessed.
10	Microphone	Allows for audio input.
11	TouchPad	Moves the mouse cursor, selects, and activates.
12	TouchPad buttons	Function like the left and right mouse buttons on an external mouse.
13	EasyScroll	Scrolls the screen left, right, up, and down.
14	Battery power light	On: A battery pack is charging. Blinking: A battery pack that is the only available power source has reached a low-battery condition.
15	Power/Standby light	On: Power is turned on. Off: Power is turned off. Blinking: Notebook is in Standby mode.

The external components on the bottom of the notebook are shown in Figure 1-6 and described in Table 1-10.

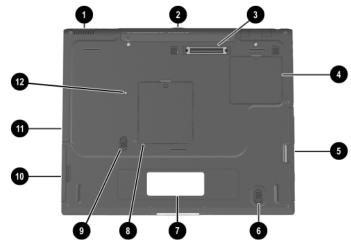


Figure 1-6. Bottom Components

Table 1-10 Bottom Components

Item	Component	Function
1	Vent	Allows airflow to cool internal components.
	CAUTION: To prevent damage, the notebook shuts down if an overheating condition occurs. Do not block the cooling vent. Avoid placing the notebook on a blanket, rug, or other flexible surface that may cover the vent area.	
2	Connector cover	Protects the parallel, external monitor, external keyboard/mouse, and USB connectors.
3	Docking connector	Connects the notebook to an optional port replicator.

Table 1-10
Bottom Components (Continued)

Item	Component	Function
4	Mini PCI communications compartment	Contains the mini PCI modem card.
5	MultiBay	Accepts a diskette drive, optical drive, hard drive, or battery pack.
6	MultiBay release switch	Releases the MultiBay device from the connector.
7	Serial number	Identifies the notebook; needed when you call Compaq customer support.
8	Memory expansion compartment	Covers the memory expansion compartment that contains two memory expansion slots for memory expansion boards.
9	Battery pack release switch	Releases the battery pack from the battery compartment.
10	Battery bay	Accepts an 8-cell lithium ion (Li ion) battery pack.
11	Hard drive bay	Supports the primary hard drive. The hard drive is secured to the notebook by one screw.
12	Hard drive retention screw	Secures the hard drive to the notebook.

1.6 Design Overview

This section presents a design overview of key parts and features of the notebook. Refer to Chapter 3, "Illustrated Parts Catalog," to identify replacement parts, and Chapter 5, "Removal and Replacement Procedures," for disassembly steps. The system board provides the following device connections:

- Memory expansion board
- Hard drive
- Display
- Keyboard/TouchPad or pointing stick
- Audio
- Intel Mobile Pentium 4 processors with SpeedStep technology
- Fan
- PC Card
- Modem or modem/NIC

The notebook uses an electrical fan for ventilation. The fan is controlled by a temperature sensor and is designed to turn on automatically when high temperature conditions exist. These conditions are affected by high external temperatures, system power consumption, power management/battery conservation configurations, battery fast charging, and software applications. Exhaust air is displaced through the ventilation grill located on the left side of the notebook.



CAUTION: To properly ventilate the notebook, allow at least a 7.6 cm (3-inch) clearance on the left and right sides of the notebook.

Troubleshooting



WARNING: Only authorized technicians trained by Compaq should repair this equipment. All troubleshooting and repair procedures are detailed to allow only subassembly/module level repair. Because of the complexity of the individual boards and subassemblies, no one should attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs can create a safety hazard. Any indication of component replacement or printed wiring board modification may void any warranty or exchange allowances.

2.1 Computer Setup and Diagnostics Utilities

The notebook features two Compaq system management utilities:

■ Computer Setup—A system information and customization utility that can be used even when your operating system is not working or will not load. This utility includes settings that are not available in Windows.

	Compaq Diagnostics —A system information and diagnostic utility that is used within your Windows operating system. Use this utility whenever possible to:	
		Display system information.
		Test system components.
		Troubleshoot a device configuration problem in Windows 2000, Windows XP Professional, or Windows XP Home.
It i	s no	t necessary to configure a device connected to a USB

It is not necessary to compare a connector on the notebook or an optional docking base.

Using Computer Setup

Information and settings in Computer Setup are accessed from the File, Security, or Advanced menus:

1. Turn on or restart the notebook. Press **F10** while the

- F10 = ROM Based Setup message is displayed in the lower-left corner of the screen. To change the language, press **F2**. To view navigation information, press **F1**. To return to the Computer Setup menu, press esc. 2. Select the File, Security, or Advanced menu. 3. To close Computer Setup and restart the notebook: Select File > Save Changes and Exit and press **enter.** or Select File > Ignore Changes and Exit and press enter.
- 4. When you are prompted to confirm your action, press **F10**.

Selecting from the File Menu

Table 2-1 File Menu		
Select	To Do This	
System Information	View identification information about the notebook, a docking base, and any battery packs in the system.	
	 View specification information about the processor, memory and cache size, and system ROM. 	
Save to Floppy	Save system configuration settings to a diskette.	
Restore from Floppy	Restore system configuration settings from a diskette.	
Restore Defaults	Replace configuration settings in Computer Setup with factory default settings. (Identification information is retained.)	
Ignore Changes and Exit	Cancel changes entered during the current session, then exit and restart the notebook.	
Save Changes and Exit	Save changes entered during the current session, then exit and restart the notebook.	

Selecting from the Security Menu

Table 2-2 Security Menu			
Select	To Do This		
Setup Password	Enter, change, or delete a setup password. (The setup password is called an administrator password in Compaq Computer Security, a program accessed from the Windows Control Panel.)		
Power-on Password	Enter, change, or delete a power-on password.		
DriveLock Passwords	Enable/disable DriveLock; change a DriveLock User or Master password.		
	DriveLock Settings are accessible only when you enter Computer Setup by turning on (not restarting) the notebook.		
Password Options	Enable/Disable:		
Password options can be	■ QuickLock		
selected only when a power-on password has	QuickLock on Standby		
been set.	■ QuickBlank		
	To enable QuickLock on Standby or QuickBlank, you must first enable QuickLock.		
Device Security	Enable/Disable:		
	■ Ports or diskette drives*		
	■ Diskette write*		
	■ CD-ROM or diskette startup		
	Settings for a DVD-ROM can be entered in the CD-ROM field.		
System IDs	Enter identification numbers for the notebook, a docking base, and all battery packs in the system.		
*Not applicable to SuperDis	*Not applicable to SuperDisk LS-120 drives.		

Selecting from the Advanced Menu

	Table 2-3 Advanced Menu		
Select	To Do This		
Language	Change the Computer Setup language.		
Boot Options	Enable/Disable:		
	 QuickBoot, which starts the notebook more quickly by eliminating some startup tests. (If you suspect a memory failure and want to test memory automatically during startup, disable QuickBoot.) 		
	MultiBoot, which sets a startup sequence that can include most bootable devices and media in the system.		
Device Options	Enable/disable the embedded numeric keypad at startup.		
	Enable/disable multiple standard pointing devices at startup. (To set the notebook to support only a single, usually nonstandard, pointing device at startup, select Disable.)		
	Enable/disable USB legacy support for a USB keyboard. (When USB legacy support is enabled, the keyboard works even when a Windows operating system is not loaded.)		
	Set an optional external monitor or overhead projector connected to a video card in a docking base as the primary device. (When the notebook display is set as secondary, the notebook must be shut down before undocking from a docking base.)		

Table 2-3 Advanced Menu (Continued)

Select	To Do This		
Device Options (continued)	■ Change the parallel port mode from EPP (Enhanced Parallel Port [default]) to standard, bidirectional, EPP or ECP (Enhanced Capabilities Port).		
	Set video-out mode to NTSC (default), PAL, NTSC-J, or PAL-M.*		
	 Enable/disable all settings in the SpeedStep window. (When Disable is selected, the notebook runs in Battery Optimized mode.) 		
	Specify how the notebook recognizes multiple identical docking bases that are identically equipped. (Select Disable to recognize the docking bases as a single docking base; select Enable to recognize the docking bases individually, by serial number.)		
	Enable/disable the reporting of the processor serial number by the processor to the software.		
HDD Self Test Options	Run a quick comprehensive self test on hard drives in the system that support the test features.		
*Video modes vary even within regions. However, NTSC is common in North America; PAL, in Europe, Africa, and the Middle East; NTSC-J, in Japan; and PAL-M, in Brazil. Other South and Central American regions may use NTSC,			

PAL, or PAL-M.

2.2 Using Compaq Diagnostics

When you access Compaq Diagnostics, a scan of all system components is displayed on the screen before the Compaq Diagnostics window opens.

You can display more or less information from anywhere within Compaq Diagnostics by selecting Level on the menu bar.

Compaq Diagnostics is designed to test Compaq components. If non-Compaq components are tested, the results may be inconclusive.

Obtaining, Saving, or Printing Configuration Information

- Access Compaq Diagnostics by selecting Start > Settings >
 Control Panel > Compaq Diagnostics.
- 2. Select Categories, then select a category from the drop-down list.
 - ☐ To save the information, select File > Save As.
 - ☐ To print the information, select File > Print.
- 3. To close Compaq Diagnostics, select File > Exit.

Obtaining, Saving, or Printing Diagnostic Test Information

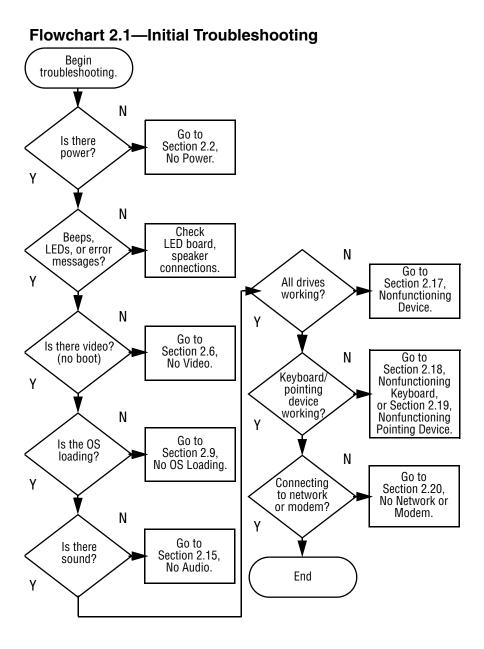
- 1. Access Compaq Diagnostics by selecting Start > Settings > Control Panel > Compaq Diagnostics.
- 2. Select the Test tab.
- 3. In the scroll box, select the category or device you want to test.
- 4. Select a test type:
 - Quick Test—Runs a quick, general test on each device in a selected category.
 - ☐ Complete Test—Performs maximum testing on each device in a selected category.
 - ☐ Custom Test—Performs maximum testing on a selected device.
 - ◆ To run all tests for your selected device, select the Check All button.
 - ◆ To run only the tests you select, select the Uncheck All button, then select the checkbox for each test you want to run.

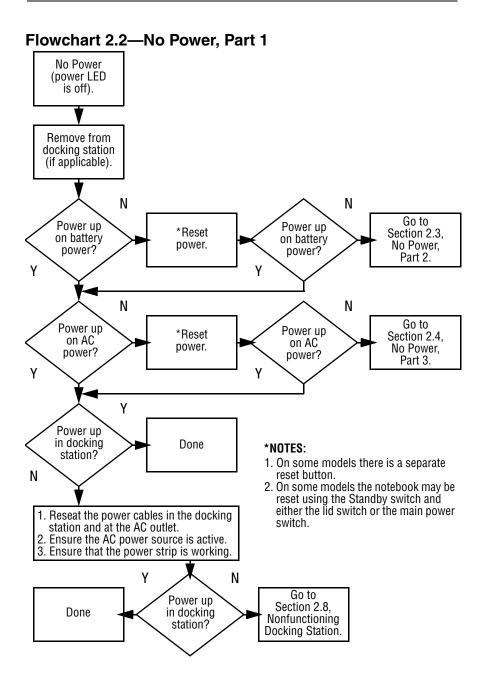
5.	. Select a test mode:			
		Interactive Mode —Provides maximum control over the testing process. You determine whether the test was passed or failed and may be prompted to insert or remove devices.		
		Unattended Mode —Does not display prompts. If errors are found, they are displayed when testing is complete.		
6.	Sel	ect the Begin Testing button.		
7.	7. Select a tab to view a test report:			
		Status tab —Summarizes the tests run, passed, and failed during the current testing session.		
		Log tab —Lists tests run on the system, the number of times each test has run, the number of errors found on each test, and the total run time of each test.		
		Error tab —Lists all errors found in the notebook with their error codes.		
8.	Sel	ect a tab to save the report:		
		Log tab—Select the Log tab Save button.		
		Error tab—Select the Error tab Save button.		
9. Select a tab to print the report:				
		Log tab —Select File > Save As, then print the file from your folder.		

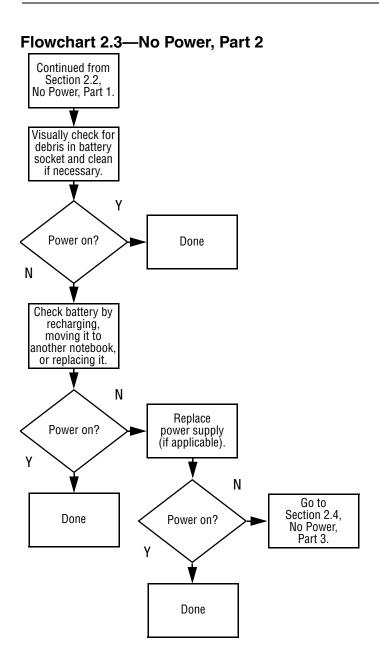
2.3 Troubleshooting Flowcharts

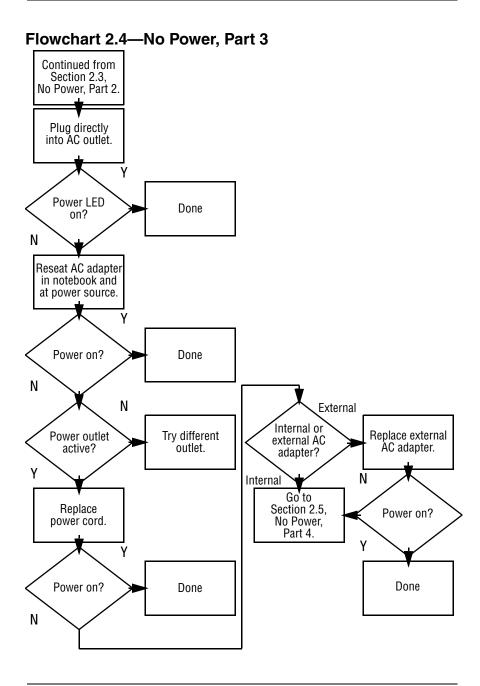
Table 2-4 Troubleshooting Flowcharts Overview

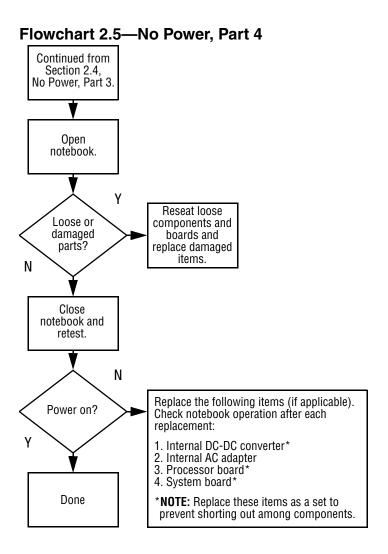
Flowchart	Description
2.1	Initial troubleshooting
2.2	No power, part 1
2.3	No power, part 2
2.4	No power, part 3
2.5	No power, part 4
2.6	No video, part 1
2.7	No video, part 2
2.8	Nonfunctioning docking station
2.9	No operating system (OS) loading
2.10	No OS loading from hard drive, part 1
2.11	No OS loading from hard drive, part 2
2.12	No OS loading from hard drive, part 3
2.13	No OS loading from diskette drive
2.14	No OS loading from CD- or DVD-ROM drive
2.15	No audio, part 1
2.16	No audio, part 2
2.17	Nonfunctioning device
2.18	Nonfunctioning keyboard
2.19	Nonfunctioning pointing device
2.20	No network or modem connection

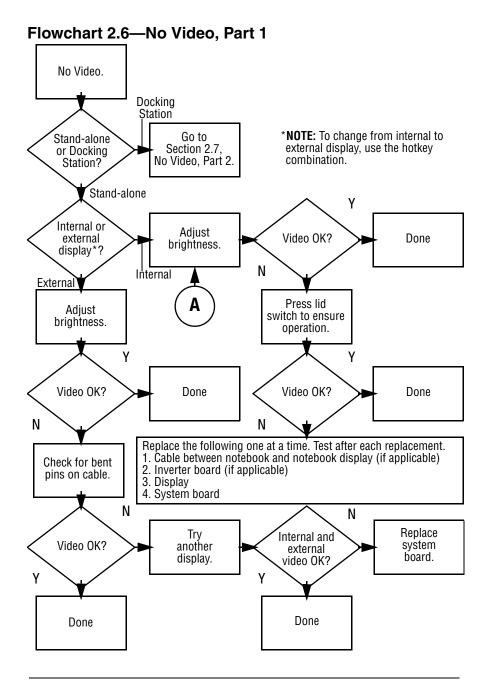


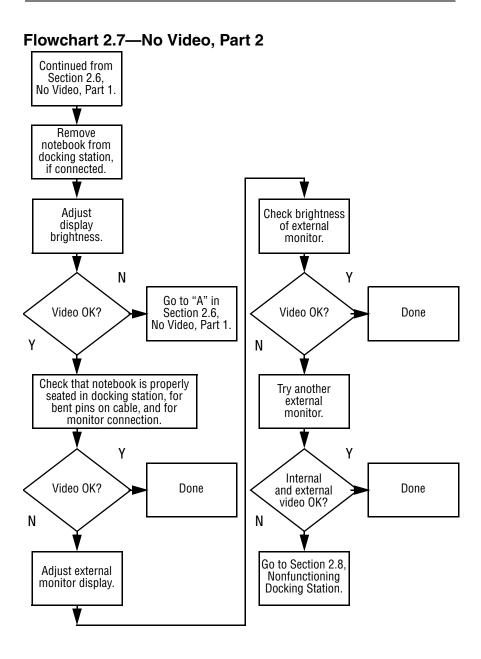




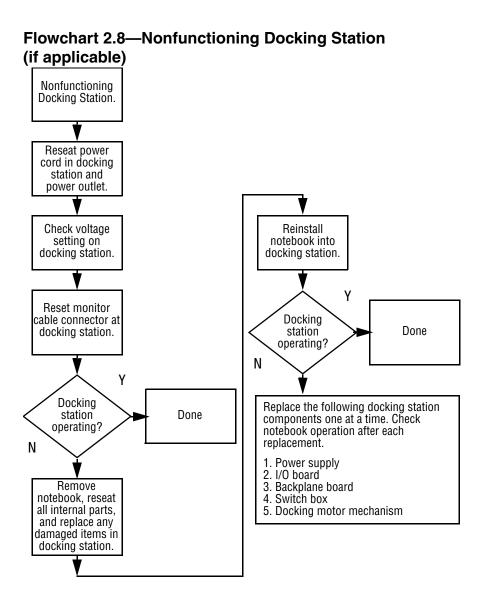




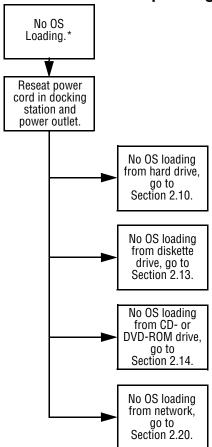




2-18

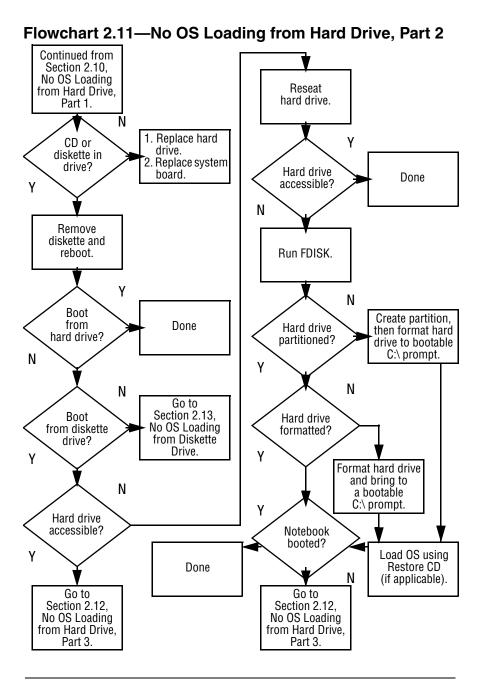


Flowchart 2.9—No Operating System (OS) Loading

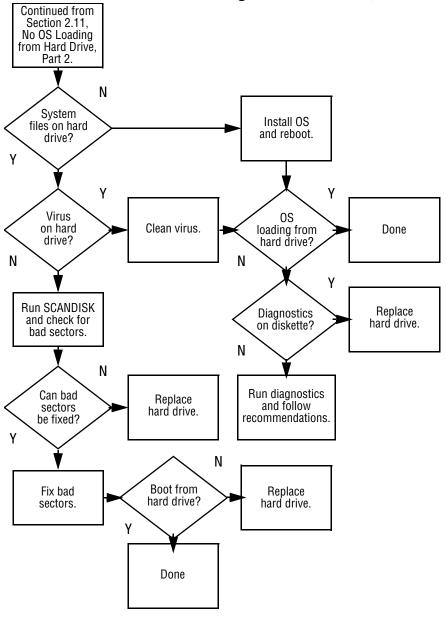


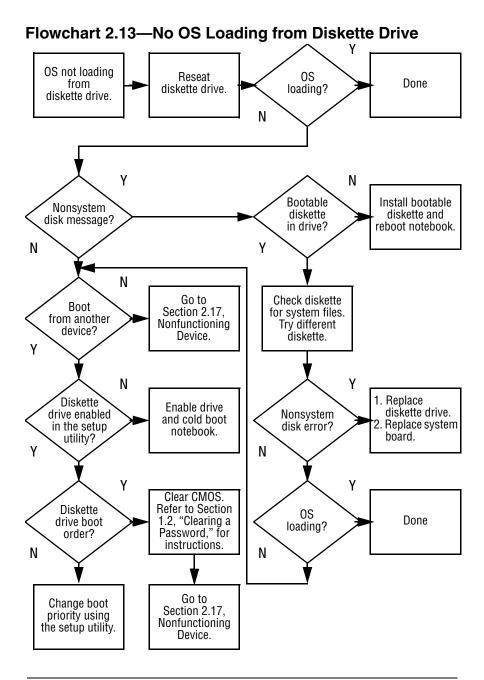
*NOTE: Before beginning troubleshooting, always check cable connections, cable ends, and drives for bent or damaged pins.

Flowchart 2.10—No OS Loading from Hard Drive, Part 1 OS not loading from hard drive. Go to Section 2.11. Nonsystem No OS Loading disk méssage? from Hard Drive, Part 2. Ν Reseat external hard drive. Υ OS loading? Done N N **Boot** from CD? N Go to Section 2.13, Boot from No OS Check the setup diskette? Loading from utility for correct Diskette Drive. Υ booting order. N Change boot priority through Boot the setup utility from and reboot. hard drive? N Go to Boot Section 2.17, from Nonfunctioning hard drive? Done Device.

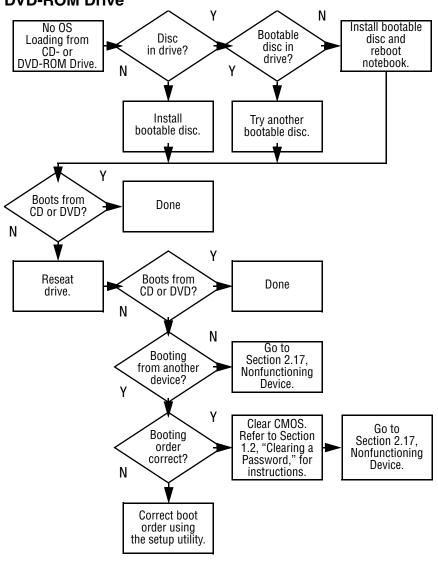


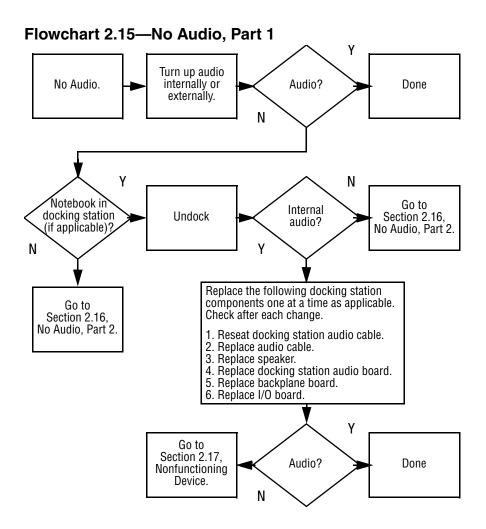
Flowchart 2.12—No OS Loading from Hard Drive, Part 3

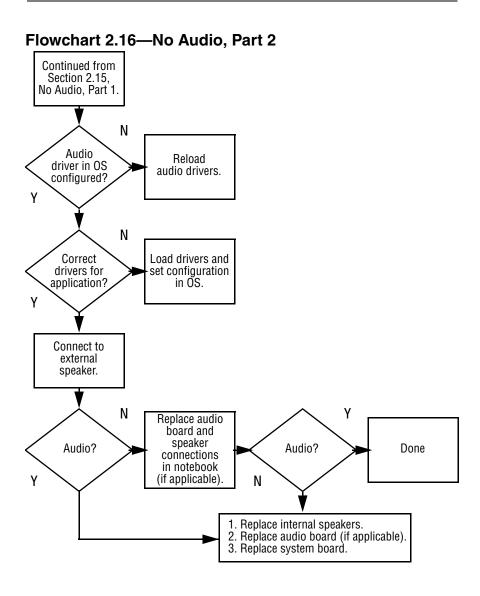


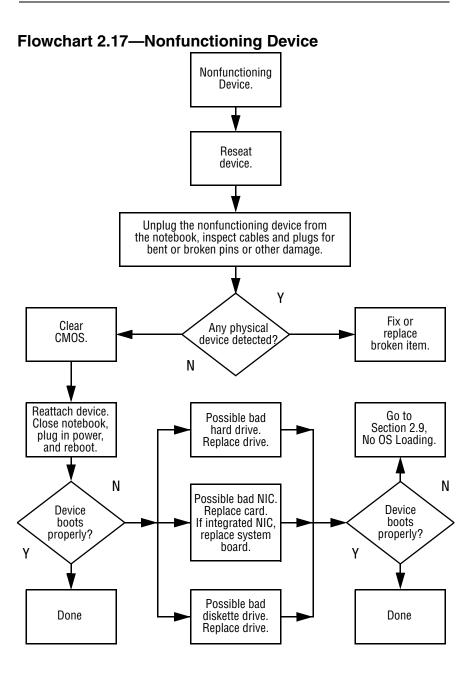


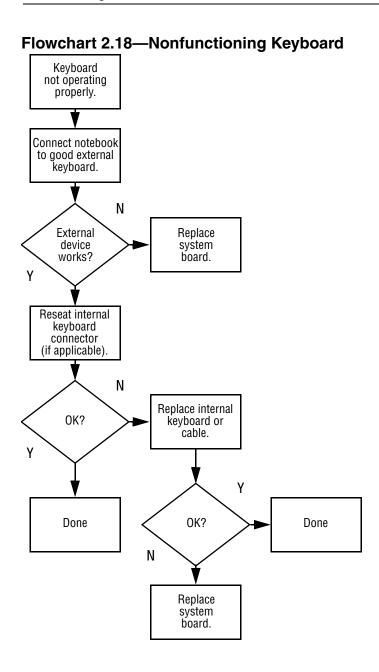
Flowchart 2.14—No OS Loading from CD- or DVD-ROM Drive



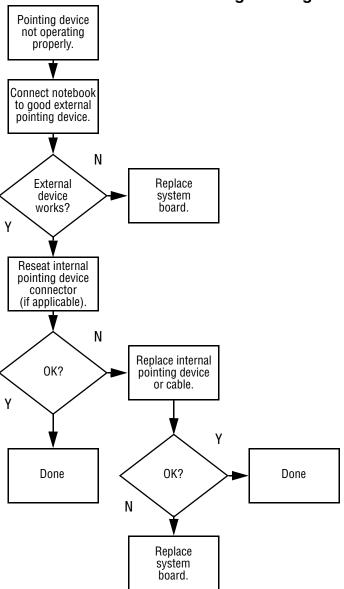






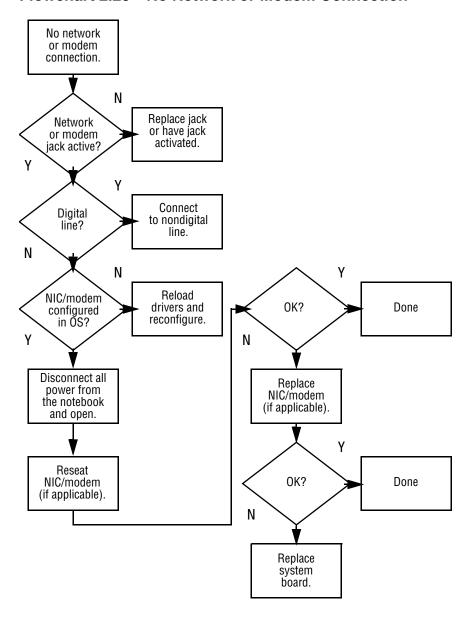


Flowchart 2.19—Nonfunctioning Pointing Device



2-30

Flowchart 2.20—No Network or Modem Connection



Illustrated Parts Catalog

This chapter provides an illustrated parts breakdown and a reference for spare part numbers and option part numbers.

3.1 Serial Number Location

When ordering parts or requesting information, provide the notebook serial number and model number located on the bottom of the notebook (Figure 3-1).

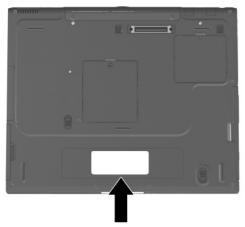


Figure 3-1. Serial Number Location

3.2 Notebook System Major Components

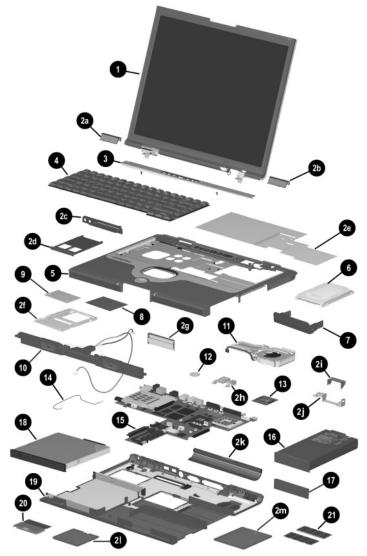


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components

Item	Description	Spare Part Number
1	Displays	
	Contain parts with carbon finish for use with Evo Note N800v, and N800w models	ebook N800c,
	15-inch, UXGA WVA	322511-001
	15-inch, UXGA	286872-001
	15-inch, SXGA+	286871-001
	15-inch, XGA	286870-001
	14-inch, XGA	286869-001
	Contain parts with silver finish for use with Presario 2	800 models
	15-inch, UXGA WVA	322510-001
	15-inch, UXGA	285265-001
	15-inch, SXGA+	285264-001
	15-inch, XGA	285263-001
	14-inch, XGA	285262-001
	MultiPort cover	289037-001

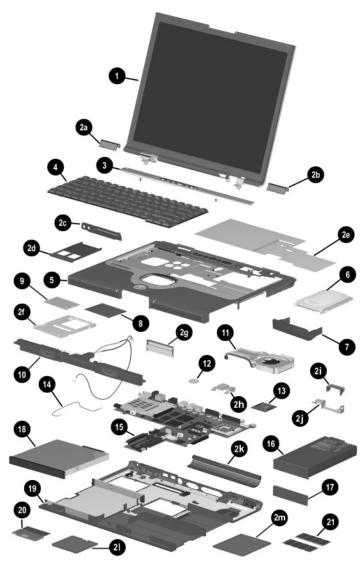


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components (Continued)

Item	Description		Spare Part Number
	Miscellaneous Plastics/Hardw	are Kit	
	Contains parts with silver finis	h for use with	285261-001
	Presario 2800 models		
	Contains parts with carbon fin		286868-001
	Evo Notebook N800c, N800 Includes:	v, and N800w models	
	includes:		
2a	Left hinge cover	not illustrated:	
2b	Right hinge cover	Notebook feet	
2c	PC Card bezel	MultiBay weight sa	
2d	PC Card slot space saver	Docking connector	cover
2e	Keyboard shield		
2f	TouchPad bracket		
2g	Display assembly release		
2h 2i	Left display support Fan channel		
	Right display support		
2j 2k	Connector cover		
2l	Mini PCI compartment		
_,	cover		
2m	Memory expansion		
	compartment cover		
3	LED cover		288503-001

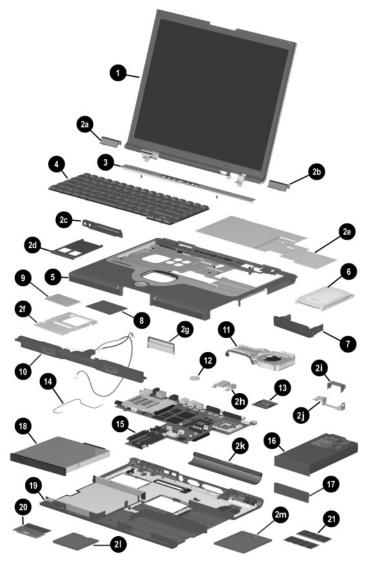


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components (Continued)

Item	Description			Spare Part Number
4	Keyboards (for use with TouchPad models only)			
	Arabic Belgian	285280-171 285280-181	Korean Latin American	285280-AD1
	Brazilian	285280-201	Spanish	285280-161
	Chinese	285280-AA1	Norwegian	285280-091
	Czech	285280-221	Portuguese	285280-131
	Danish	285280-081	Russian	285280-251
	French	285280-051	Slovakian	285280-231
	French		Spanish	285280-071
	Canadian	285280-121	Swedish	285280-101
	German	285280-041	Swiss	285280-111
	Greek	285280-151	Taiwanese	285280-AB1
	Hebrew	285280-BB1	Thai	285280-281
	Hungarian	285280-211	Turkish	285280-141
	International	285280-002	U.K. English	285280-031
	Italian	285280-061	U.S. English	285280-001
	Keyboards with	pointing stick		
	Arabic	285281-171	Latin American	285281-161
	Belgian Brazilian	285281-181 285281-201	Spanish Norwegian	285281-091
	Czech	285281-201	Portuguese	285281-131
	Danish	285281-081	Russian	285281-251
	French	285281-051	Slovakian	285281-231
	French	200201 001	Spanish	285281-071
	Canadian	285281-121	Swedish	285281-101
	German	285281-041	Swiss	285281-111
	Greek	285281-151	Taiwanese	285281-AB1
	Hebrew	285281-BB1	Thai	285281-281
	Hungarian	285281-211	Turkish	285281-141
	International	285281-002	U.K. English	285281-031
	Italian	285281-061	U.S. English	285281-001
	Korean	285281-AD1		

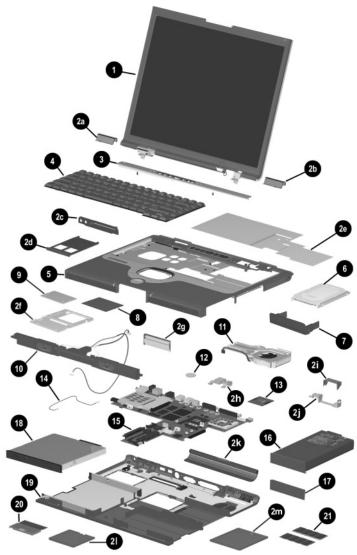


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components (Continued)

Item	Description	Spare Part Number
5	Top cover	
	For Dual Point (TouchPad and Point Stick; for use only with Evo Notebook N800w models)	322504-001
	For Dual Point (TouchPad and Point Stick; for use only with Evo Notebook N800c and Evo Notebook N800v models)	322502-001
	For TouchPad only (silver finish for use with Presario 2800 models)	322503-001
	For TouchPad only (carbon finish for use with Evo Notebook N800c, N800v, and N800w models)	323747-001
6	Hard drives	
	60 GB 50 GB, 5400 RPM 40 GB 40 GB (does not include hard drive bezel) 30 GB	285277-001 333488-001 285276-001 301245-001 285275-001
	20 GB	285274-001
7	Hard drive bezels	
	Hard drive bezel with silver finish for use with Presario 2800 models	286874-001
	Hard drive bezel with carbon finish for use with Evo Notebook N800c, N800v, and N800w models	286875-001
8	TouchPad	285258-001
9	TouchButton boards	
	For Dual Point (TouchPad and Point Stick) For TouchPad only	285259-001 285260-001

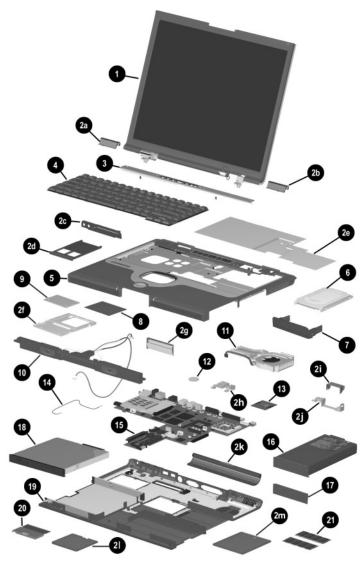


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components (Continued)

Item	Description	Spare Part Number
10	Speaker assembly	285266-001
11	Fan	322499-001
12	Disk cell RTC battery	198718-001
13	Processors	
	Intel Mobile Pentium 4 with SpeedStep technology	
	2.4-GHz processor	322507-001
	2.2-GHz processor	308420-001
	2.0-GHz processor	305075-001
	1.9-GHz processor	305074-001
	1.8-GHz processor	285295-001
	1.7-GHz processor	285294-001
	1.6-GHz processor	285293-001
	1.5-GHz processor	285292-001
	1.4-GHz processor	285291-001
	Intel Mobile Pentium 4 (non-SpeedStep technology)	
	2.0-GHz processor	322506-001
	1.8-GHz processor	322505-001
	1.6-GHz processor	306704-001
	1.5-GHz processor	306703-001
	Thermal pad	314626-001
-	Miscellaneous Cable Kit, includes:	285268-001
14a	Modem cable	

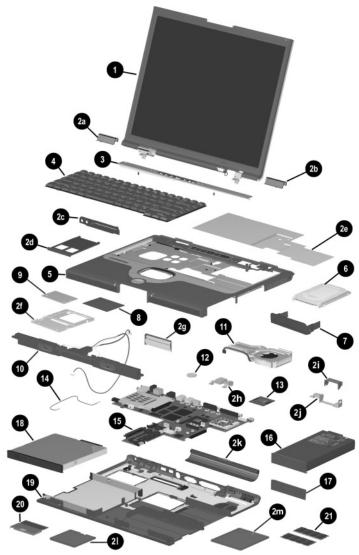


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components (Continued)

Item	Description	Spare Part Number
15	System boards (do not contain memory)	
	With the ATI Mobile Radeon 9000 graphics controller for use only with the 90-watt AC adapter 64-MB of video memory 32-MB of video memory	322498-001 322497-001
	With the ATI Mobile Radeon 9000 graphics controller 64-MB of video memory 32-MB of video memory	310784-001 310783-001
	With the ATI P7 graphics controller 64-MB of video memory 32-MB of video memory	285254-001 285253-001
16	Battery pack, 8 cell, 4.0 Ah (4,0 Ah), 62 WH	281234-001
17	Battery bezels	
	Battery bezel with silver finish for use with Presario 2800 models Battery bezel with carbon finish for use with Evo Notebook N800c, N800v, and N800w models	286876-001 286877-001
18	MultiBay devices	
	Diskette drive 24X Max CD-ROM drive 24X Max CD-RW drive 16X Max CD-RW drive 8X Max CD-RW drive 8X Max DVD-ROM drive 24X Max DVD-ROM/CD-RW combination drive 8X Max DVD-ROM/CD-RW combination drive LS-120 drive Battery pack	285278-001 285282-001 322509-001 301244-001 285284-001 285283-001 301294-001 285285-001 285279-001 281235-001

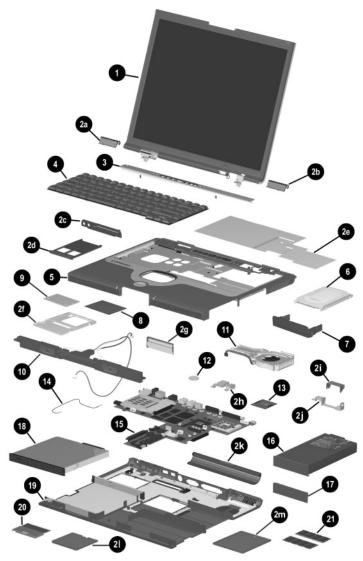


Figure 3-2. Notebook System Major Components

Table 3-1
Spare Parts: Notebook System Major Components (Continued)

Item	Description	Spare Part Number
19	Base enclosures (includes shield)	
	With silver finish (Presario 2800 models only) With carbon finish (Evo Notebook N800c, N800v, and N800w models)	322500-001 322501-001
20	Mini PCI communications boards	
	Modem, type III, mini PCI, 56 Kbps (United States) Modem, type III, mini PCI, 56 Kbps (International) Modem, type III, mini PCI, 56 Kbps	285286-001 285287-002 259489-001
21	Memory expansion boards	
	1024 MB 512 MB 256 MB 128 MB	322508-001 285273-001 285272-001 285271-001

3.3 Miscellaneous Plastics/Hardware Kit Components

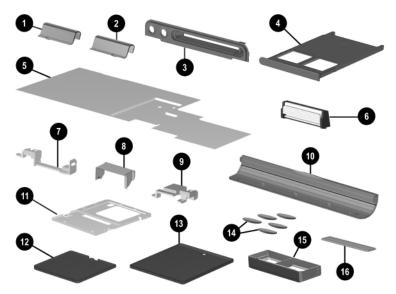


Figure 3-3. Miscellaneous Plastics/Hardware Kit Components

Table 3-2 Miscellaneous Plastics/Hardware Kit Components Spare Part Number 285261-001

(contains parts with silver finish for use with Presario 2800 models)

Spare Part Number 286868-001

(contains parts with carbon finish for use with Evo Notebook N800c, N800v, and N800w models)

Item	Description	Item	Description
1	Left hinge cover	9	Right display support
2	Right hinge cover	10	Connector cover
3	PC Card bezel	11	TouchPad bracket
4	PC Card slot space saver	12	Mini PCI compartment cover
5	Keyboard shield	13	Memory expansion compartment cover
6	Display release assembly	14	Notebook feet (5)
7	Left display support	15	MultiBay weight saver
8	Fan channel	16	Docking connector cover

3.4 Mass Storage Devices

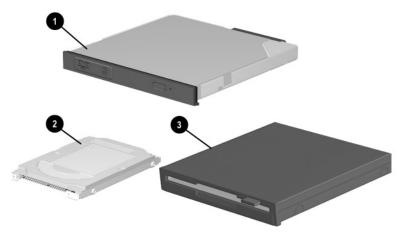


Figure 3-4. Mass Storage Devices

Table 3-3 Mass Storage Devices

Item	Description	Spare Part Number
1	Optical drives	_
	24X Max CD-ROM drive	285282-001
	16X Max CD-RW drive	301244-001
	8X Max CD-RW drive	285284-001
	8X Max DVD-ROM drive	285283-001
	24X Max DVD-ROM/CD-RW combination drive	301294-001
	8X Max DVD-ROM/CD-RW combination drive	285285-001
2	Hard drives	
	60 GB	285277-001
	50 GB, 5400 RPM	333488-001
	40 GB	285276-001
	40 GB (does not include hard drive bezel)	301245-001
	30 GB	285275-001
	20 GB	285274-001
3	Diskette drive	285278-001

3.5 Miscellaneous

Table 3-4
Spare Parts: Miscellaneous (not illustrated)

Description			Spare Part Number
AC adapters			
90 watt 65 watt			287515-001 285288-001
Bluetooth MultiPort N	Module with cover		288504-001
802.11b Wireless Loc Module with cover	802.11b Wireless Local Area Network (LAN) MultiPort Module with cover		
Logo Kit			288501-001
Port replicators			
Advanced Port Replicator			331740-001 and 288502-001
Common Port Replicator			331741-001, 285289-001, and 316193-001
Power cord, 2-wire			
Australian Chinese International	174120-011 174120-AA1 174120-002	Swiss U.K. English U.S. English	174120-115 174120-031 174120-001

Table 3-4
Spare Parts: Miscellaneous (not illustrated) (Continued)

Description			Spare Part Number
Power cord, 3-wire			
Australian	198723-011	Swedish	198723-101
Chinese	198723-AA1	Swiss	198723-BG1
International	198723-B31	Taiwanese	198723-AB1
Italian	198723-061	U.K. English	198723-031
Japanese	198723-291	U.S. English	198723-001
Korean	198723-AD1		
Screw Kit (includes the following screws; refer to Appendix C, "Screw Listing," for more information on screw specifications and usage.) 285290-001			
■ Phillips M3.0 × 4.0		■ Phillips M	2.0 × 8.0
■ Phillips M2.5 × 9.0		■ Phillips M	2.0 × 5.5
■ Phillips M2.0 × 10.0		■ Phillips M	2.0×4.0
Three-button USB mou	se		333355-001

Removal and Replacement Preliminaries

This chapter provides essential information for proper and safe removal and replacement service.

4.1 Tools Required

You will need the following tools to complete the removal and replacement procedures:

- Magnetic screwdriver
- Phillips P0 screwdriver
- Tool kit (includes connector removal tool, loopback plugs, and case utility tool)

4.2 Service Considerations

The following sections include some of the considerations that you should keep in mind during disassembly and assembly procedures.



As you remove each subassembly from the notebook, place the subassembly (and all accompanying screws) away from the work area to prevent damage.

Plastic Parts

Using excessive force during disassembly and reassembly can damage plastic parts. Use care when handling the plastic parts. Apply pressure only at the points designated in the maintenance instructions.

Cables and Connectors

Cables must be handled with extreme care to avoid damage. Apply only the tension required to unseat or seat the cables during removal and insertion. Handle cables by the connector whenever possible. In all cases, avoid bending, twisting, or tearing cables. Ensure that cables are routed in such a way that they cannot be caught or snagged by parts being removed or replaced. Handle flex cables with extreme care; these cables tear easily.



CAUTION: When servicing the notebook, ensure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the notebook.

4.3 Preventing Damage to Removable Drives

Removable drives are fragile components that must be handled with care. To prevent damage to the notebook, damage to a removable drive, or loss of information, observe the following precautions:

- Before removing or inserting a hard drive, shut down the notebook. If you are unsure whether the notebook is off or in Hibernation, turn the notebook on, then shut it down.
- Before removing a diskette drive or optical drive, ensure that a diskette or disc is not in the drive. Ensure that the optical drive tray is closed.
- Before handling a drive, ensure that you are discharged of static electricity. While handling a drive, avoid touching the connector.
- Handle drives on surfaces that have at least one inch of shock-proof foam.
- Avoid dropping drives from any height onto any surface.
- After removing a hard drive, CD-ROM drive, or a diskette drive, place it in a static-proof bag.
- Avoid exposing a hard drive to products that have magnetic fields, such as monitors or speakers.
- Avoid exposing a drive to temperature extremes or to liquids.
- If a drive must be mailed, place the drive in a bubble pack mailer or other suitable form of protective packaging and label the package "Fragile: Handle With Care."

4.4 Preventing Electrostatic Damage

Many electronic components are sensitive to electrostatic discharge (ESD). Circuitry design and structure determine the degree of sensitivity. Networks built into many integrated circuits provide some protection, but in many cases the discharge contains enough power to alter device parameters or melt silicon junctions.

A sudden discharge of static electricity from a finger or other conductor can destroy static-sensitive devices or microcircuitry. Often the spark is neither felt nor heard, but damage occurs.

An electronic device exposed to electrostatic discharge may not be affected at all and can work perfectly throughout a normal cycle. Or the device may function normally for a while, then degrade in the internal layers, reducing its life expectancy.

4.5 Packaging and Transporting Precautions

Use the following grounding precautions when packaging and transporting equipment:

- To avoid hand contact, transport products in static-safe containers, such as tubes, bags, or boxes.
- Protect all electrostatic-sensitive parts and assemblies with conductive or approved containers or packaging.
- Keep electrostatic-sensitive parts in their containers until the parts arrive at static-free workstations.
- Place items on a grounded surface before removing items from their containers.
- Always be properly grounded when touching a sensitive component or assembly.

- Store reusable electrostatic-sensitive parts from assemblies in protective packaging or nonconductive foam.
- Use transporters and conveyors made of antistatic belts and roller bushings. Ensure that mechanized equipment used for moving materials is wired to ground and that proper materials are selected to avoid static charging. When grounding is not possible, use an ionizer to dissipate electric charges.

4.6 Workstation Precautions

Use the following grounding precautions at workstations:

- Cover the workstation with approved static-shielding material (refer to Table 4-2).
- Use a wrist strap connected to a properly grounded work surface and use properly grounded tools and equipment.
- Use conductive field service tools, such as cutters, screwdrivers, and vacuums.
- When using fixtures that must directly contact dissipative surfaces, only use fixtures made of static-safe materials.
- Keep the work area free of nonconductive materials, such as ordinary plastic assembly aids and Styrofoam.
- Handle electrostatic-sensitive components, parts, and assemblies by the case or PCM laminate. Handle these items only at static-free workstations.
- Avoid contact with pins, leads, or circuitry.
- Turn off power and input signals before inserting or removing connectors or test equipment.

4.7 Grounding Equipment and Methods

Grounding equipment must include either a wrist strap or a foot strap at a grounded workstation.

- When seated, wear a wrist strap connected to a grounded system. Wrist straps are flexible straps with a minimum of one megohm ±10% resistance in the ground cords. To provide proper ground, wear a strap snugly against the skin at all times. On grounded mats with banana-plug connectors, connect a wrist strap with alligator clips.
- When standing, use foot straps and a grounded floor mat. Foot straps (heel, toe, or boot straps) can be used at standing workstations and are compatible with most types of shoes or boots. On conductive floors or dissipative floor mats, use foot straps on both feet with a minimum of one-megohm resistance between the operator and ground. To be effective, the conductive strips must be worn in contact with the skin.

Other grounding equipment recommended for use in preventing electrostatic damage includes:

- Antistatic tape
- Antistatic smocks, aprons, and sleeve protectors
- Conductive bins and other assembly or soldering aids
- Nonconductive foam
- Conductive tabletop workstations with ground cords of one-megohm resistance
- Static-dissipative tables or floor mats with hard ties to the ground
- Field service kits
- Static awareness labels
- Material-handling packages

- Nonconductive plastic bags, tubes, or boxes
- Metal tote boxes
- Electrostatic voltage levels and protective materials

Table 4-1 shows how humidity affects the electrostatic voltage levels generated by different activities.

Table 4-1 **Typical Electrostatic Voltage Levels**

	Rei	lative Humidit	ty
Event	10%	40%	55%
Walking across carpet	35,000 V	15,000 V	7,500 V
Walking across vinyl floor	12,000 V	5,000 V	3,000 V
Motions of bench worker	6,000 V	800 V	400 V
Removing DIPS from plastic tube	2,000 V	700 V	400 V
Removing DIPS from vinyl tray	11,500 V	4,000 V	2,000 V
Removing DIPS from Styrofoam	14,500 V	5,000 V	3,500 V
Removing bubble pack from PCB	26,500 V	20,000 V	7,000 V
Packing PCBs in foam-lined box	21,000 V	11,000 V	5,000 V
A Product can be degraded by as little as 700 volts.			

Table 4-2 lists the shielding protection provided by antistatic bags and floor mats.

Table 4-2 Static-Shielding Materials

Material	Use	Voltage Protection Level
Antistatic plastic	Bags	1,500 V
Carbon-loaded plastic	Floor mats	7,500 V
Metallized laminate	Floor mats	5,000 V

Removal and Replacement Procedures

This chapter provides removal and replacement procedures.

Phillips P1 screws are removed during disassembly. There are 48 screws, in nine different sizes, that must be removed, replaced, and loosened when servicing the notebook. Make special note of each screw size and location during removal and replacement.

Refer to Appendix C, "Screw Listing," for detailed information on screw sizes, locations, and usage.

5.1 Serial Number

Report the notebook serial number to Compaq when requesting information or ordering spare parts. The serial number is located on the bottom of the notebook (Figure 5-1).

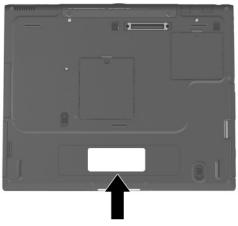


Figure 5-1. Serial Number Location

5.2 Disassembly Sequence Chart

Use the chart below to determine the section number to be referenced when removing notebook components.

Table 5-1		
Disassembly Sequence	Chart	

Section	Description	# of Screws Removed
5.3	Preparing the notebook for disassembly	
	Battery pack	0

Table 5-1
Disassembly Sequence Chart (Continued)

Section	Description	# of Screws Removed
5.3 (continued)	MultiBay device	0
	Hard drive	to remove hard drive to separate hard drive bezel from hard drive
5.4	Notebook feet	0
5.5	Memory expansion board	1 loosened
5.6	Mini PCI communications board	1 loosened
5.7	Connector cover	2
5.8	LED cover	2
5.9	Keyboard	2 to remove keyboard shield
5.10	Display	4
5.11	Top cover	16
5.12	Speaker assembly	0
5.13	Display release assembly	2
5.14	TouchPad	4
5.15	Fan	4 loosened
5.16	Processor	0
5.17	Disk cell RTC battery	0
5.18	System board	5
5.19	Modem cable	0

5.3 Preparing the Notebook for Disassembly

Perform the following steps before disassembling the notebook:

- 1. Turn off the notebook.
- 2. Disconnect the AC adapter and all external devices.
- 3. Remove the battery pack by following these steps:
 - a. Turn the notebook bottom side up with the left side facing forward.
 - b. Slide and hold the battery release latch toward the back of the notebook (Figure 5-2).
 - c. Use the notch in the battery bay to slide the battery pack out of the battery bay **2**.
 - d. Remove the battery pack.

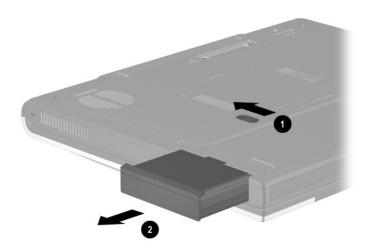


Figure 5-2. Removing the Battery Pack

Reverse the above procedure to install the battery pack.

4. To remove the battery bezel, slide the bezel straight down (Figure 5-3).

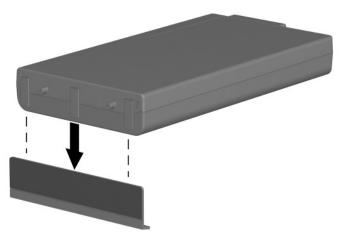


Figure 5-3. Removing the Battery Bezel

Spare Part Number Information	
Battery bezel with silver finish for use with	

Battery Bezel

Battery bezel with carbon finish for use with Evo Notebook N800c, N800v, and N800w models

Presario 2800 models

286876-001 286877-001

Reverse the above procedure to install the battery bezel.

- 5. Remove the MultiBay device by following these steps:
 - a. Turn the notebook bottom side up with the right side facing forward.
 - b. Slide and hold the MultiBay release latch toward the front of the notebook **①** (Figure 5-4).
 - c. Use the notch in the MultiBay device to slide the device out of the MultiBay ②.
 - d. Remove the MultiBay device.

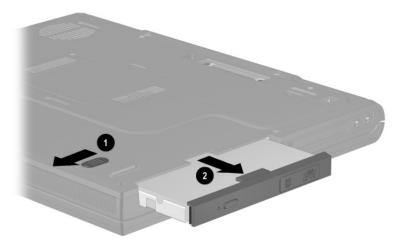


Figure 5-4. Removing a MultiBay Device

Reverse the above procedure to install a MultiBay device.

- 6. Remove the hard drive by following these steps:
 - a. Turn the notebook bottom side up with the left side facing forward.
 - b. Remove the PM3.0 \times 4.0 hard drive retention screw **(Figure 5-5)**.
 - c. Slide the hard drive forward **②** to unseat the hard drive connector from the system board.
 - d. Remove the hard drive.

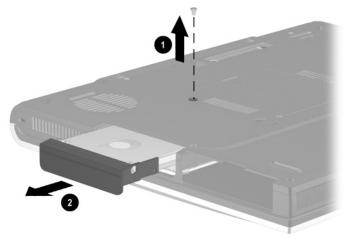


Figure 5-5. Removing the Hard Drive

- 7. Remove the two PM3.0 \times 4.0 screws **1** that secure the hard drive bezel to the hard drive (Figure 5-6).
- 8. Slide the hard drive bezel forward to separate it from the hard drive **2**.

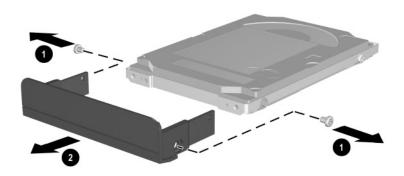


Figure 5-6. Removing the Hard Drive Bezel

Spare Part Number Information		
Hard drive bezel with silver finish for use with Presario 2800 models	286874-001	
Hard drive bezel with carbon finish for use with Evo Notebook N800c, N800v, and N800w models	286875-001	

Reverse the above procedure to install the hard drive and hard drive bezel.

5.4 Notebook Feet

The notebook feet are adhesive-backed rubber pads. The notebook feet are included in the Miscellaneous Plastics/Hardware Kit, spare part numbers 285261-001 and 286868-001. The notebook feet attach to the base enclosure as illustrated in Figure 5-7.

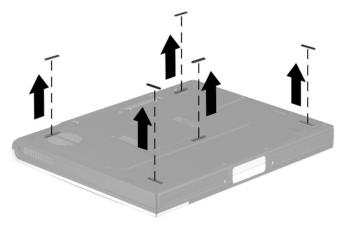


Figure 5-7. Replacing the Notebook Feet

5.5 Memory Expansion Board

	Memory Expansion Boards Spare Part Number Information	
1024 MB		322508-001
512 MB		285273-001
256 MB		285272-001
128 MB		285271-001

- 1. Prepare the notebook for disassembly (Section 5.3).
- 2. Turn the notebook bottom side up with the rear panel facing forward.
- 3. Remove the PM2.0 × 5.0 screw **①** that secures the memory expansion compartment cover to the base enclosure (Figure 5-8).
- 4. Lift the front edge of the cover and swing it back **2**.
- 5. Remove the cover **3**.

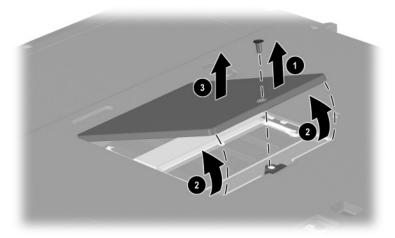


Figure 5-8. Removing the Memory Expansion Compartment Cover



Memory expansion compartment covers are available with silver finish for Presario 2800 models and carbon finish for Evo Notebook N800c, N800v, and N800w models. These covers are included in the Miscellaneous Plastics/Hardware Kit, spare part number 285261-001 for Presario 2800 models, and spare part number 286868-001 for Evo Notebook N800c, N800v, and N800w models

- 6. Spread the memory expansion slot retaining tabs to release the memory expansion board **①**. The board tilts up at a 45-degree angle (Figure 5-9).
- 7. Remove the board by pulling it away from the connector at a 45-degree angle **2**.

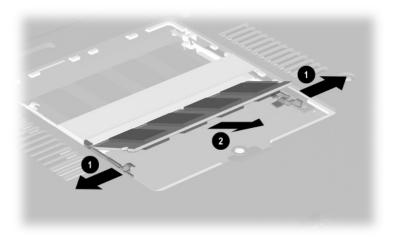


Figure 5-9. Removing a Memory Expansion Board

Reverse the above procedure to install a memory expansion board.

5.6 Mini PCI Communications Board

Mini PCI Communication Boards Spare Part Number Information

 U.S. modem
 285286-001

 International modem
 285287-001

- 1. Prepare the notebook for disassembly (Section 5.3).
- 2. Turn the notebook bottom side up with the rear panel facing forward.

- 3. Remove the PM2.0 × 5.0 screw that secures the mini PCI compartment cover to the base enclosure (Figure 5-10).
- 4. Lift the front edge of the cover and swing it back **2**.
- 5. Remove the cover **3**.

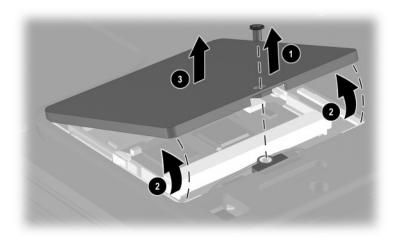


Figure 5-10. Removing the Mini PCI Communications Slot Cover



Mini PCI compartment covers are available with silver finish for Presario 2800 models and carbon finish for Evo Notebook N800c, N800v, and N800w models. These covers are included in the Miscellaneous Plastics/Hardware Kit, spare part number 285261-001 for Presario 2800 models, and spare part number 286868-001 for Evo Notebook N800c, N800v, and N800w models.

6. Disconnect the modem cable from the modem board **(**Figure 5-11).



The modem cable spare part number is 285268-001.

- 7. Spread the retaining tabs to release the mini PCI communications board ②. The board tilts up at a 45-degree angle.
- 8. Remove the board by pulling it away from the connector at a 45-degree angle **3**.

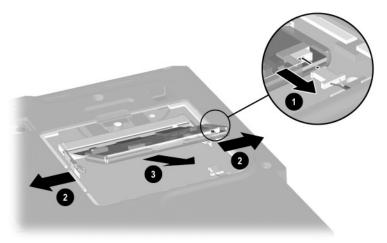


Figure 5-11. Removing a Mini PCI Communications Board

Reverse the above procedure to install a mini PCI communications board.

5.7 Connector Cover



The connector cover is available with silver finish for Presario 2800 models and carbon finish for Evo Notebook N800c, N800v, and N800w models. This cover is included in the Miscellaneous Plastics/Hardware Kit, spare part number 285261-001 for Presario 2800 models, and spare part number 286868-001 for Evo Notebook N800c, N800v, and N800w models.

- 1. Prepare the notebook for disassembly (Section 5.3).
- 2. Turn the notebook bottom side up with the rear panel facing forward.
- 3. Remove the two PM2.0 \times 5.5 screws \bullet that secure the connector cover to the base enclosure (Figure 5-12).
- 4. Open the connector cover.
- 5. Remove the connector cover from the base enclosure **2**.

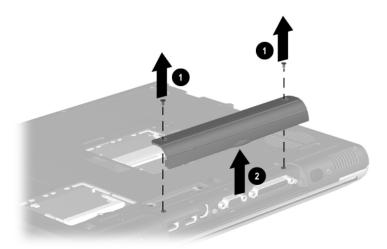


Figure 5-12. Removing the Connector Cover

Reverse the above procedure to install the connector cover.

5.8 LED Cover

LED Cover Spare Part Number Information

LED cover 288503-001

- 1. Prepare the notebook for disassembly (Section 5.3).
- 2. Turn the notebook bottom side up with the rear panel facing forward.
- 3. Remove the two black PM2.0 \times 10.0 screws that secure the LED cover to the base enclosure (Figure 5-13).

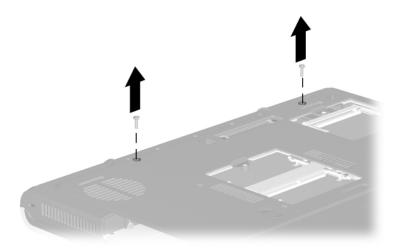


Figure 5-13. Removing the LED Cover Screws

- 4. Turn the notebook top side up with the front facing forward.
- 5. Open the notebook.

- 6. Use a flat-bladed tool to pry forward the four clips on the LED cover **1** (Figure 5-14).
- 7. Press the **esc** and **F1** keys to reveal the left notch ② in the LED cover.
- 8. Insert a flat-bladed tool into the left notch and lift the left side of the LED cover **3**.
- 9. Press the **Pause** and **Del** keys to reveal the right notch **4** in the LED cover.
- 10. Insert a flat-bladed tool into the right notch and lift the right side of the LED cover **6**.
- 11. Remove the LED cover **6**.

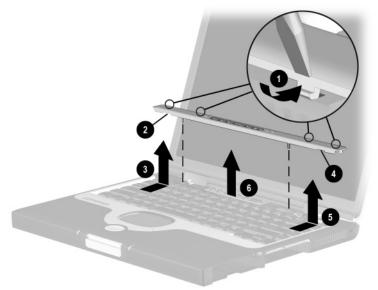


Figure 5-14. Removing the LED Cover

Reverse the above procedure to install the LED cover.

5.9 Keyboard

Keyboards Spare Part Number Information

Keyboards (for use v	with TouchPad n	nodels only)	
Arabic	285280-171	Korean	285280-AD1
Belgian	285280-181	Latin American Spanish	285280-161
Brazilian	285280-201	Norwegian	285280-091
Chinese	285280-AA1	Portuguese	285280-131
Czech	285280-221	Russian	285280-251
Danish	285280-081	Slovakian	285280-231
French	285280-051	Spanish	285280-071
French Canadian	285280-121	Swedish	285280-101
German	285280-041	Swiss	285280-111
Greek/Polish	285280-151	Taiwanese	285280-AB1
Hebrew	285280-BB1	Thai	285280-281
Hungarian	285280-211	Turkish	285280-141
International	285280-002	U.K. English	285280-031
Italian	285280-061	U.S. English	285280-001
Keyboards with poi	nting stick		
Arabic	285281-171	Latin American Spanish	285281-161
Belgian	285281-181	Norwegian	285281-091
Brazilian	285281-201	Portuguese	285281-131
Czech	285281-221	Russian	285281-251
Danish	285281-081	Slovakian	285281-231
French	285281-051	Spanish	285281-071
French Canadian	285281-121	Swedish	285281-101
German	285281-041	Swiss	285281-111
Greek/Polish	285281-151	Taiwanese	285281-AB
Hebrew	285281-BB1	Thai	285281-281
Hungarian	285281-211	Turkish	285281-141
International	285281-002	U.K. English	285281-031
Italian	285281-061	U.S. English	285281-001
Korean	285281-AD1	-	

- 1. Prepare the notebook for disassembly (Section 5.3).
- 2. Remove the LED cover (Section 5.8).
- 3. Lift the back edge of the keyboard **①** (Figure 5-15).
- 4. Slide the keyboard toward the back of the notebook **②**.
- 5. Lift the back edge of the keyboard and swing it forward **3** until it rests on the palm rest.

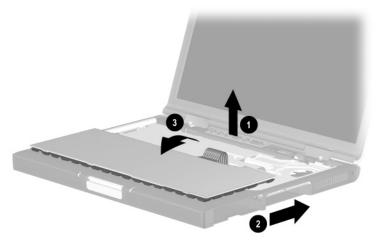


Figure 5-15. Releasing the Keyboard

- 6. Remove the two PM2.0 × 4.0 screws **●** that secure the keyboard shield to the base enclosure (Figure 5-16).
- 7. Remove the keyboard shield **2**.

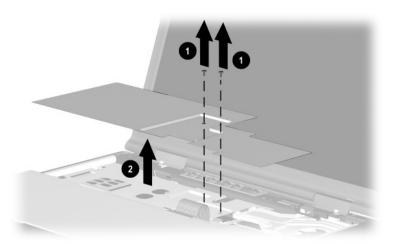


Figure 5-16. Removing the Keyboard Shield



The keyboard shield is included in the Miscellaneous Plastics/Hardware Kit, spare part numbers 285261-001 and 286868-001.

- 8. Release the ZIF connector **①** to which the keyboard cable is connected and disconnect the keyboard cable **②** from the system board (Figure 5-17).
- 9. Remove the keyboard.

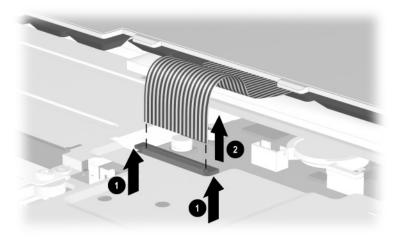


Figure 5-17. Removing the Keyboard

Reverse the above procedure to install the keyboard.

5.10 Display

Displays Spare Part Number Information

Contain parts with carbon finish for use with Evo Notebook N800c, N800v, and N800w models

15-inch, UXGA WVA	322511-001
15-inch, UXGA	286872-001
15-inch, SXGA+	286871-001
15-inch, XGA	286870-001
14-inch, XGA	286869-001

Contain parts with silver finish for use with Presario 2800 models

15-inch, UXGA WVA	322510-001
15-inch, UXGA	285265-001
15-inch, SXGA+	285264-001
15-inch, XGA	285263-001
14-inch, XGA	285262-001
MultiPort cover	289037-001

- 1. Prepare the notebook for disassembly (Section 5.3).
- 2. Remove the LED cover (Section 5.8).
- 3. Close the notebook and position the notebook so the rear panel faces forward.

4. Remove the two PM2.5 \times 9.0 screws that secure the display hinges to the base enclosure (Figure 5-18).

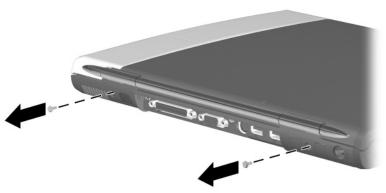


Figure 5-18. Removing the Display Screws

- 5. Position the notebook so the front faces forward and open the notebook.
- 6. Disconnect the display video **1** and display inverter **2** cables from the system board (Figure 5-19).
- 7. Remove the two PM2.0 × 10.0 screws **③** that secure the display hinges to the base enclosure.
- 8. Lift the display straight up **4** and remove it from the base enclosure.

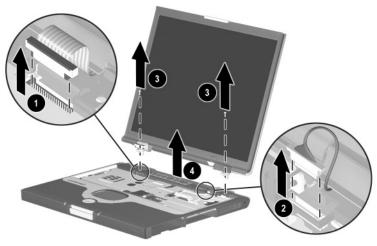


Figure 5-19. Removing the Display

9. Remove the hinge covers from the display (Figure 5-20).

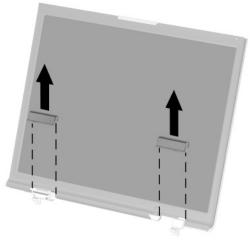


Figure 5-20. Removing the Hinge Covers



The display hinge covers are included in the Miscellaneous Plastics/Hardware Kit, spare part numbers 285261-001 and 286868-001.



Install the hinge covers on the display before installing the display on the base enclosure.

Reverse the above procedure to install the display.

5.11 Top Cover

Top Cover Spare Part Number Information	
For Dual Point (TouchPad and Point Stick; for use only with Evo Notebook N800w models)	322504-001
For Dual Point (TouchPad and Point Stick; for use only with Evo Notebook N800c and Evo Notebook N800v models)	322502-001
For TouchPad only (silver finish for use with Presario 2800 models)	322503-001
For TouchPad only (carbon finish for use with Evo Notebook N800c, N800v, and N800w models)	323747-001

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
- 2. Turn the notebook bottom side up with the front facing forward.

- 3. Remove the nine PM2.0 \times 8.0 screws securing the top cover to the base enclosure (Figure 5-21).
- 4. Remove the PM2.0 \times 4.0 screw 2 securing the top cover to the base enclosure in the hard drive bay.



Do not remove the screw in the middle of the hard drive bay **3**.

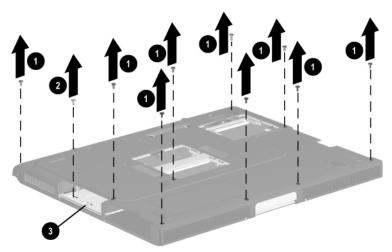


Figure 5-21. Removing the Top Cover Screws

5. Turn the notebook top side up with the rear panel facing forward.

- 6. Disconnect the drive activity light and battery power light cable from the system board **①** (Figure 5-22).
- 7. Release the ZIF connector ② to which the TouchPad cable is connected and disconnect the TouchPad cable ③ from the system board.
- 8. Disconnect the speaker cable **4** from the system board.

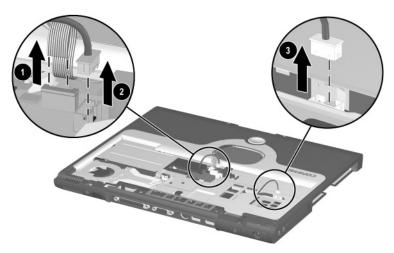


Figure 5-22. Disconnecting the Drive Activity Light/Battery Power Light, TouchPad, and Speaker Cables

9. Remove the following screws:

- a. Two PM2.0 × 5.5 screws **①** that secure the top cover to the base enclosure on the notebook rear panel (Figure 5-23)
- b. Two PM2.0 × 4.0 screws ② that secure the top cover to the base enclosure through the metal tabs on the top cover shield
- c. Two PM2.0 \times 8.0 screws **3** that secure the top cover to the base enclosure through the plastic tabs on the top cover

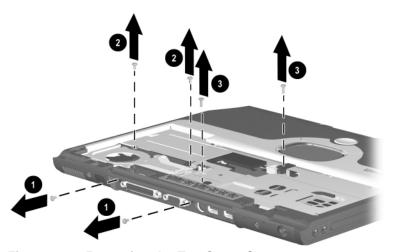


Figure 5-23. Removing the Top Cover Screws

10. Remove the top cover (Figure 5-24).

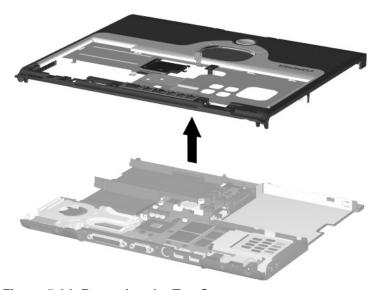


Figure 5-24. Removing the Top Cover

Reverse the above procedure to install the top cover.

5.12 Speaker Assembly

Speaker Assembly Spare Part Number Information

Speaker assembly

285266-001

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)
- 2. Position the top cover bottom side up with the front facing forward.

- 3. Remove the drive activity light/battery power light cable and speaker cable from the retaining clips in the top cover **1** and **2** (Figure 5-25).
- 4. Remove the strip of tape **3** that secures the speaker assembly and TouchPad cables to the top cover and TouchPad assembly.
- 5. Remove the PM2.0 \times 4.0 screw 4 that secures the speaker assembly to the top cover.
- 6. Lift the speaker assembly straight up **6** and remove it from the top cover.

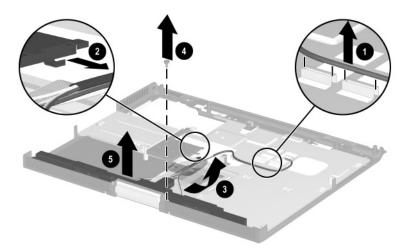


Figure 5-25. Removing the Speaker Assembly

Reverse the above procedure to install the speaker assembly.

5.13 Display Release Assembly



The display release assembly is available with silver finish for The display release assembly is a Presario 2800 models and carbon finish for Evo Notebook N800c, N800v, and N800w models. This assembly is included in the Miscellaneous Plastics/Hardware Kit, spare part number 285261-001 for Presario 2800 models, and spare part number 286868-001 for Evo Notebook N800c, N800v, and N800w models.

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - LED cover (Section 5.8)
 - Keyboard and shield (Section 5.9) h.
 - c. Display (Section 5.10)
 - Top cover (Section 5.11)
- 2. Position the top cover bottom side up with the front facing forward.

- 3. Remove the two PM2.0 \times 4.0 screws \bullet that secure the display release assembly to the top cover (Figure 5-26).
- 4. Lift the display release assembly straight up ② and remove it from the top cover.

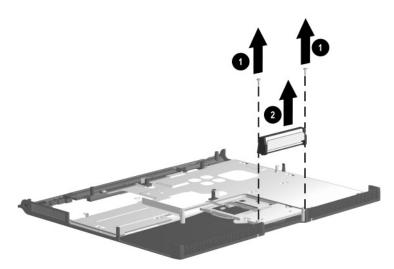


Figure 5-26. Removing the Display Release Assembly

Reverse the above procedure to install the display release assembly.

5.14 TouchPad

TouchPad and TouchButton Board Spare Part Number Information

285258-001
285259-001
285260-001

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)
 - e. Speaker assembly (Section 5.12)

- 2. Remove the four PM2.0 × 4.0 screws **①** that secure the TouchPad bracket to the top cover (Figure 5-27).
- 3. Disconnect the TouchPad cable ② from the low insertion force (LIF) connector on the TouchPad.
- 4. Slide the TouchPad bracket toward the back of the top cover **3**.
- 5. Lift the TouchPad bracket straight up 4 and remove it.

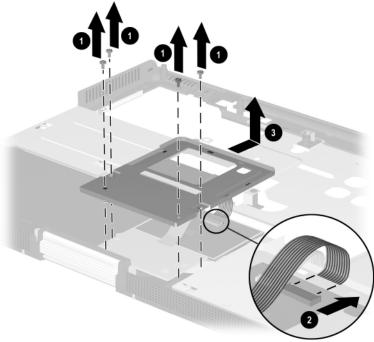


Figure 5-27. Removing the TouchPad

6. Remove the TouchPad **1** and the TouchButton board **2** from the top cover (Figure 5-28).



The TouchPad cables are part of the TouchButton board.

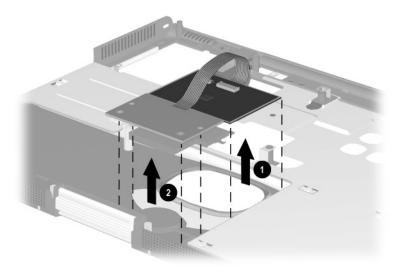


Figure 5-28. Removing the TouchPad and the TouchButton Board

Reverse the above procedure to install the TouchPad and the TouchButton board.

5.15 Fan

Fan Spare Part Number Information

Fan 322499-001

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)

- 2. Disconnect the fan cable from the system board **①** (Figure 5-29).
- 3. Loosen the four PM2.0 \times 9.0 shoulder screws 2 that secure the fan to the processor mounting bracket.



These screws are secured to the fan and should not be removed.

4. Lift the fan straight up to remove it from the base enclosure **3**.

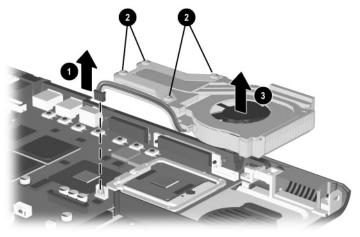


Figure 5-29. Removing the Fan

Reverse the above procedure to install the fan.

5.16 Processor

Processors Spare Part Number Information

Intel Mobile Pentium 4 with SpeedStep technology	
2.4-GHz processor	322507-001
2.2-GHz processor	308420-001
2.0-GHz processor	305075-001
1.9-GHz processor	305074-001
1.8-GHz processor	285295-001
1.7-GHz processor	285294-001
1.6-GHz processor	285293-001
1.5-GHz processor	285292-001
1.4-GHz processor	285291-001
Intel Mobile Pentium 4 (non-SpeedStep technology)	
2.0-GHz processor	322506-001
1.8-GHz processor	322505-001
1.6-GHz processor	306704-001
1.5-GHz processor	306703-001
Thermal pad	314626-001



CAUTION: Before removing the processor, make special note of the orientation of the printing on the processor. The gold triangle should be in the lower right corner when installing the processor. The processor must be installed in the same orientation in which it was removed.

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)
 - e. Fan (Section 5.15)

- 2. Use a flat-bladed tool to turn the processor locking screw **o** one-half turn counterclockwise (Figure 5-30).
- 3. Lift the processor straight up and remove it **②**.



Make sure the gold triangle **3** is in the lower right corner when installing the processor.

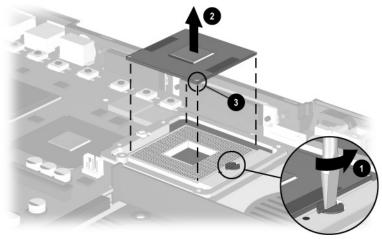


Figure 5-30. Removing the Processor

Reverse the above procedure to install the processor.

5.17 Disk Cell Real Time Clock (RTC) Battery

Disk Cell RTC Battery Spare Part Number Information

Disk cell RTC battery

198718-001

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)

- 2. Use a flat-bladed tool to release the RTC battery from its socket **1** (Figure 5-31).
- 3. Remove the RTC battery **②**.

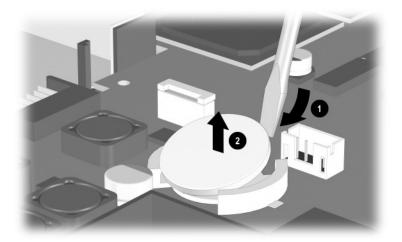


Figure 5-31. Removing the Disk Cell RTC Battery



When replacing an RTC battery, insert the battery with the "+" sign facing up.

5.18 System Board

System Boards Spare Part Number Information

With the ATI Mobile Radeon 9000 graphics controller for use only with the 90-watt AC adapter 64-MB of video memory 32-MB of video memory	322498-001 322497-001
With the ATI Mobile Radeon 9000 graphics controller 64-MB of video memory 32-MB of video memory	310784-001 310783-001
With the ATI P7 graphics controller 64-MB of video memory 32-MB of video memory	285254-001 285253-001



When replacing the system board, ensure that the following components are removed from the old system board and installed on the new system board:

- Memory expansion boards (Section 5.5)
- Mini PCI communications board (Section 5.6)
- Processor (Section 5.16)
- Disk cell RTC battery (Section 5.17)
- Modem cable (Section 5.19)
 - 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)
 - e. Fan (Section 5.15)
 - 2. Position the notebook so the front faces forward.

- 3. Remove the two PM2.0 × 8.0 screws **①** that secure the left **②** and right **③** display supports to the base enclosure (Figure 5-32).
- 4. Remove the left and right display supports from the base enclosure.

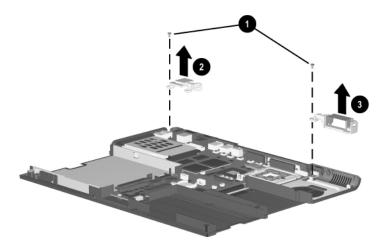


Figure 5-32. Removing the Display Supports



A plastic fan channel **1** attaches to the right display support. A plastic ran channel • attaches to the light The channel has two slots ② on either end that fit around two tabs 3 on the display support. The fan channel is included in the Miscellaneous Plastics/Hardware Kit, spare part numbers 285261-001 and 286868-001 (Figure 5-33).

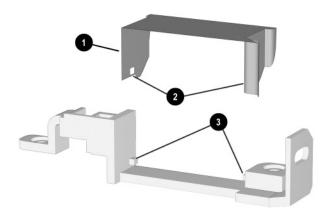


Figure 5-33. Replacing the Fan Channel on the Right Display Support

- 5. Remove the two PM2.0 × 5.5 screws that secure the system board to the base enclosure on either side of the MultiBay connector (Figure 5-34).
- 6. Remove the two PM2.0 × 8.0 screws ② that secure the system board to the base enclosure through the processor support bracket.

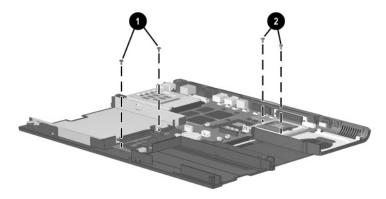


Figure 5-34. Removing the System Board Screws

- 7. Use the MultiBay connector **1** to lift **2** the front of the system board until the board rests at an angle (Figure 5-35).
- 8. Slide the system board forward at an angle **3** and remove it from the base enclosure.
- 9. Remove the PC Card bezel **4** from the system board.

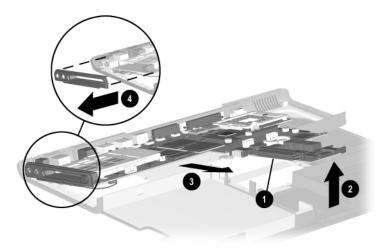


Figure 5-35. Removing the System Board

Reverse the above procedure to install the system board.

5.19 Modem Cable



The modem cable is included in the Miscellaneous Cable Kit, spare part number 285268-001.

- 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components
 - a. LED cover (Section 5.8)
 - b. Keyboard and shield (Section 5.9)
 - c. Display (Section 5.10)
 - d. Top cover (Section 5.11)
 - e. Fan (Section 5.15)
 - f. System board (Section 5.18)
- 2. Turn the system board bottom side up with the rear panel facing forward.

- 3. If the modem is installed on the system board, disconnect the modem cable from the modem **1** (Figure 5-36).
- 4. Disconnect the modem cable from the system board **2**.
- 5. Remove the modem cable.

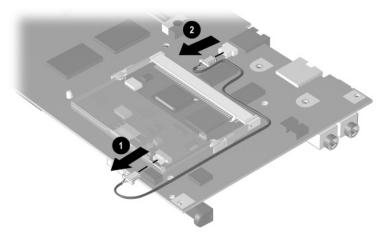


Figure 5-36. Removing the Modem Cable

When installing the modem cable, route the cable as shown in Figure 5-36.

Specifications

This chapter provides physical and performance specifications.

Table 6-1 Notebook			
Dimensions			
Height Width Depth	3.3 cm 31.7 cm 25.0 cm	1.30 in 12.48 in 10.10 in	
Weight (varies by configu	ıration)		
15.0-inch display, MultiBay device, 1 memory expansion board	2.92 kg	6.40 lb	
14.1-inch display, MultiBay weight saver, 1 memory expansion board	2.47 kg	5.45 lb	
Stand-alone power requirements			
Nominal operating voltage	14.8 VDC		
Average operating power	15.8 W		
Peak operating power Power in Standby mode Power in Hibernation	38 W < 800 mW		
mode	< 100 mW		

Table 6-1
Notebook (Continued)

Temperature			
Operating	10° to 35° C	50° to 95° F	
Nonoperating	-10° to 60° C	14° to 140° F	
Relative humidity (none	condensing)		
Operating	10% to 90%		
Nonoperating	5% to 95%, 38.7° C (101.6° F) maximum wet bulb temperature		
Altitude (unpressurized)			
Operating	0 to 3,048 m	0 to 10,000 ft	
Nonoperating	0 to 9,144 m	0 to 30,000 ft	
Shock			
Operating	10 G, 11 ms, half-sine	•	
Nonoperating	60 G, 11 ms, half-sine		
Vibration			
Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate		
Nonoperating	1.0 G zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate		



Applicable product safety standards specify thermal limits for plastic surfaces. The notebook operates well within this range of temperatures.

Table 6-2			
15.0-inch	UXGA,	TFT	Display

Dimensions		
Height	22.86 cm	9.00 in
Width	30.33 cm	11.94 in
Diagonal	38.10 cm	15.0 in
Number of colors	up to 16.8 million	
Contrast ratio	150:1	
Brightness	120+ nit typical	
Pixel resolution		
Pitch	0.264 × 0.264 mm	
Format	1600 × 1200	
Configuration	RGB vertical stripe	
Backlight	Edge lit	
Character display	80 × 25	
Total power consumption	4.20 W	

Table 6-3		
15.0-inch SXGA+, TFT Display		

Dimensions				
Height	22.86 cm	9.00 in		
Width	30.33 cm	11.94 in		
Diagonal	38.10 cm	15.0 in		
Number of colors	up to 16.8 million			
Contrast ratio	150:1			
Brightness	120+ nit typical			
Pixel resolution				
Pitch	0.264 × 0.264 mm	0.264 × 0.264 mm		
Format	1280 × 1024			
Configuration	RGB vertical stripe			
Backlight	Edge lit			
Character display	80 × 25			
Total power consumption	4.20 W			

Table 6-4			
15.0-inch XGA, TFT Display			

Dimensions			
Height	22.86 cm	9.00 in	
Width	30.33 cm	11.94 in	
Diagonal	38.10 cm	15.0 in	
Number of colors	up to 16.8 million		
Contrast ratio	150:1		
Brightness	120+ nit typical		
Pixel resolution			
Pitch	0.264 × 0.264 mm		
Format	1024 × 768		
Configuration	RGB vertical stripe		
Backlight	Edge lit		
Character display	80 × 25		
Total power consumption	4.20 W		

Total power

consumption

Table 6-5 14.1-inch XGA, TFT Display			
Dimensions			
Height	20.50 mm	11.22 in	
Width	21.49 mm	8.46 in	
Diagonal	35.81 mm	14.1 in	
Number of colors	up to 16.8 million		
Contrast ratio	150:1		
Brightness	120+ nits typical		
Pixel resolution			
Pitch	0.264 × 0.264 mm		
Format	1024 × 768		
Configuration	RGB vertical stripe		
Backlight	Edge lit		
Character display	racter display 80 × 25		

4.2 W

Н	ard Drives		
	40 GB	30 GB	20 GB
	40.0 GB	30.0 GB	20.0 G
	9.5 mm	9.5 mm	9.5 mm

	60 GB	40 GB	30 GB	20 GB
User capacity per drive ¹	60.0 GB	40.0 GB	30.0 GB	20.0 GB
Drive height	9.5 mm	9.5 mm	9.5 mm	9.5 mm
Drive width	70 mm	70 mm	70 mm	70 mm
Interface type	ATA-5	ATA-5	ATA-5	ATA-5
Seek times (typical	read, including	setting)		
Single track Average Full stroke	3 ms 13 ms 24 ms			
Logical blocks ³	117,210,240	78,140,160	58,605,120	39,070,080
Logical configuration				
Cylinders Heads Sectors per track	16,383 16 63	16,383 16 63	16,383 16 63	16,383 16 63

Table 6-6

co CB

Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

¹1 GB = 1,073,741,824 bytes.

²System capability may differ.

³Actual drive specifications may differ slightly.

Table 6-6 Hard Drives (Continued)

	60 GB	40 GB	30 GB	20 GB
Physical configura	ition			
Cylinders ³ Heads Sectors per track ³	22,784 6 293 to 560	22,784 4 293 to 560	25,800 2 398 to 731	22,784 4 293 to 560
Bytes per sector	512	512	512	512
Buffer size ³	2 MB	2 MB	512 KB	512 KB
Disk rotational speed	4200 rpm	4200 rpm	4200 rpm	4200 rpm
Transfer rate				
Interface max (MB/s) ²	66.6	66.6	100	66.6
Media (MB/s) ³	109 to 203	109 to 203	155 to 256	109 to 203

 $^{^{1}}$ 1 GB = 1,073,741,824 bytes.

Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

²System capability may differ.

³Actual drive specifications may differ slightly.

Table 6-7 Diskette Drive		
Diskette size	3.5 in	
Light	On system	
Height	0.5 in (12.7 mm)	
Bytes per sector	512	
Sectors per track		
High density Low density	18 (1.44 MB) 9	
Tracks per side		
High density Low density	80 80	
Read/write heads	2	
Average seek times		
Track-to-track (high/low) Average (high/low) Settling time Latency average	3 to 6 ms 95 to 174 ms 15 ms 100 ms	

Table 6-8 CD-ROM Drive				
Applicable disk	CD-ROM (Mode 1, 2, and 3) CD-XA ready (Mode 2, Form 1 and 2) CD-I ready (Mode 2, Form 1 and 2) CD-R (read only) CD Plus Photo CD (single/multisession) CD-Extra Video CD CD-WO (fixed packets only) CD-Bridge			
Center hole diameter	1.5 cm	0.59 in		
Disk diameter	12 cm, 8 cm			
Disk thickness	1.2 mm	0.047 in		
Track pitch	1.6 µm			
Access time				
Random	< 150 ms			
Full stroke	< 300 ms			
Cache buffer	128 KB			
Data transfer rate				
Sustained, 16X Variable Normal PIO Mode 4 (single burst)	150 KB/s at 1X 1500 to 3600 KB/s 16.66 KB/s	s (10X to 24X)		
Startup time	< 8 seconds			

Stop time

< 4 seconds

Table 6-9 DVD-ROM Drive				
Applicable disk	DVD-5, DVD-9, DVD-10 CD-ROM (Mode 1 and 2) CD Digital Audio CD-XA ready (Mode 2, Form 1 and 2) CD-I ready (Mode 2, Form 1 and 2) CD-R (read only) CD Plus Photo CD (single/multisession) CD-Bridge			
Center hole diameter	1.5 cm 0.59 in			
Disk diameter	12 cm, 8 cm			
Disk thickness	1.2 mm 0.047 in			
Track pitch	0.74 μm			
Access time				
Random Full stroke	< 150 ms < 225 ms			
Audio output level	Line-out, 0.7 Vrms			
Cache buffer	512 KB			
Data transfer rate				
Max 24X CD Max 8X DVD Normal IO Mode 4 (single burst)	3600 KB/s (150 KB/s at 1X CD rate) 10,800 KB/s (1352 KB/s at 1X DVD rate) 16.6 MB/s			
Startup time	< 12 seconds			
Stop time	< 3 seconds			

Table 6-10 CD-RW Drive				
Center hole diameter	0.39 cm	0.59 in		
Disk diameter	12 cm, 8 cm			
Disk thickness	1.19 cm	0.47 in		
Track pitch	0.74 μm			
Access time				
Random Full stroke	< 150 ms < 225 ms			
Audio output level	Line-out, 0.7 Vrm	ıs		
Cache buffer	128 KB			
Data transfer rate				
Sustained, 16X Sustained, 4X CD-RW Normal PIO Mode 4 (single burst)	150 KB/s 5,520 KB/s 16.6 MB/s			
Startup time	< 15 seconds			
Stop time	< 6 seconds			

Table 6-11		
External AC Adapter		

	<u>- </u>	
Weight	0.21 kg	0.45 lb
Power supply		
Rated input voltage	90 to 264 VAC (auto-s	witching)
Rated input current	< 60 W	
Rated frequency	50 to 60 Hz	

Table 6-12 8-cell, Li ion Battery Pack

Dimensions				
Height	21 mm	0.82 in		
Width	144 mm	5.67 in		
Depth	77 mm	3.03 in		
Weight	0.43 kg	0.94 lb		
Energy				
4.0 Amp hour				
Voltage	14.4 V			
Amp-hour capacity	4.0 Ah (4,0 Ah)			
Watt-hour capacity	57.6 Wh			
3.6 Amp hour				
Voltage	14.4 V			
Amp-hour capacity	3.6 Ah (3,6 Ah)			
Watt-hour capacity	51.8 Wh			
Temperature				
Operating	10 to 40° C	50 to 104° F		
Nonoperating	-20 to 60° C	-4 to 104° F		

Table 6-13 System DMA

Hardware DMA	System Function	
DMA0	Available for audio	
DMA1*	Entertainment audio	
	(default; alternate = DMA0, DMA3, none)	
DMA2*	Diskette drive	
DMA3	ECP parallel port LPT1	
	(default; alternate = DMA0, none)	
DMA4	DMA controller cascading (not available)	
DMA5*	Available for PC Card	
DMA6	Not assigned	
DMA7	Not assigned	
*PC Card controller can use DMA 1, 2, or 5.		

Table 6-14 System Interrupts

Hardware IRQ	System Function
IRQ0	System timer
IRQ1	Keyboard controller
IRQ2	Cascaded
IRQ3	COM2
IRQ4	COM1
IRQ5	Audio (default)*
IRQ6	Diskette drive
IRQ7	Parallel port
IRQ8	Real time clock (RTC)
IRQ9	Infrared
IRQ10	System use
IRQ11	System use
IRQ12	Internal point stick or external mouse
IRQ13	Coprocessor (not available to any peripheral)
IRQ14	IDE interface (hard drive and optical drive)
IRQ15	System use



PC Cards may assert IRQ3, IRQ4, IRQ5, IRQ7, IRQ9, IRQ10, IRQ11, or IRQ15. Either the infrared or the serial port may assert IRQ3 or IRQ4.

^{*}Default configuration; audio possible configurations are IRQ5, IRQ7, IRQ9, IRQ10, or none.

Table 6-15 System I/O Addresses

I/O Address (hex)	System Function (shipping configuration)
000 - 00F	DMA controller no. 1
010 - 01F	Unused
020 - 021	Interrupt controller no. 1
022 - 024	Opti chipset configuration registers
025 - 03F	Unused
02E - 02F	87334 "Super I/O" configuration for CPU
040 - 05F	Counter/timer registers
044 - 05F	Unused
060	Keyboard controller
061	Port B
062 - 063	Unused
064	Keyboard controller
065 - 06F	Unused
070 - 071	NMI enable/real time clock
072 - 07F	Unused
080 - 08F	DMA page registers
090 - 091	Unused
092	Port A
093 - 09F	Unused
0A0 - 0A1	Interrupt controller no. 2

Table 6-15
System I/O Addresses (Continued)

I/O Address (hex)	System Function (shipping configuration)
0A2 - 0BF	Unused
0C0 - 0DF	DMA controller no. 2
0E0 - 0EF	Unused
0F0 - 0F1	Coprocessor busy clear/reset
0F2 - 0FF	Unused
100 - 16F	Unused
170 - 177	Secondary fixed disk controller
178 - 1EF	Unused
1F0 - 1F7	Primary fixed disk controller
1F8 - 200	Unused
201	Joystick (decoded in ESS1688)
202 - 21F	Unused
220 - 22F	Entertainment audio
230 - 26D	Unused
26E - 26	Unused
278 - 27F	Unused
280 - 2AB	Unused
2A0 - 2A7	Unused
2A8 - 2E7	Unused
2E8 - 2EF	Reserved serial port

Table 6-15
System I/O Addresses (Continued)

I/O Address (hex)	System Function (shipping configuration)
2F0 - 2F7	Unused
2F8 - 2FF	Infrared port
300 - 31F	Unused
320 - 36F	Unused
370 - 377	Secondary diskette drive controller
378 - 37F	Parallel port (LPT1/default)
380 - 387	Unused
388 - 38B	FM synthesizer—OPL3
38C - 3AF	Unused
3B0 - 3BB	VGA
3BC - 3BF	Reserved (parallel port/no EPP support)
3C0 - 3DF	VGA
3E0 - 3E1	PC Card controller in CPU
3E2 - 3E3	Unused
3E8 - 3EF	Internal modem
3F0 - 3F7	"A" diskette controller
3F8 - 3FF	Serial port (COM1/default)
CF8 - CFB	PCI configuration index register (PCIDIVO-1)
CFC - CFF	PCI configuration data register (PCIDIVO-1)

Table 6-16 System Memory Map

Size	Memory Address	System Function
640 KB	00000000-0009FFFF	Base memory
128 KB	000A0000-000BFFFF	Video memory
48 KB	000C0000-000CBFFF	Video BIOS
160 KB	000C8000-000E7FFF	Unused
64 KB	000E8000-000FFFFF	System BIOS
15 MB	00100000-00FFFFF	Extended memory
58 MB	01000000-047FFFF	Super extended memory
58 MB	04800000-07FFFFF	Unused
2 MB	08000000-080FFFF	Video memory (direct access)
4 GB	08200000-FFFEFFF	Unused
64 KB	FFFF0000-FFFFFFF	System BIOS

Connector Pin Assignments

Table A-1 RJ-45 Network Interface



Pin	Signal	Pin	Signal
1	Transmit +	5	Unused
2	Transmit –	6	Receive –
3	Receive +	7	Unused
4	Unused	8	Unused

Table A-2 RJ-11 Modem



Pin	Signal	Pin	Signal
1	Unused	4	Unused
2	Tip	5	Unused
3	Ring	6	Unused

Table A-3 Universal Serial Bus



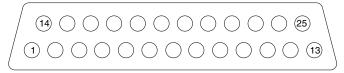
Pin	Signal	Pin	Signal
1	+5 VDC	3	Data +
2	Data –	4	Ground

Table A-4 S-Video



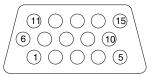
Pin	Signal	Pin	Signal
1	Ground (Y)	3	Y-Luminance (Intensity)
2	Ground (C)	4	C-Chrominance (Color)

Table A-5 Parallel



Pin	Signal	Pin	Signal
1	Strobe*	10	Acknowledge*
2	Data bit 0	11	Busy
3	Data bit 1	12	Paper out
4	Data bit 2	13	Select
5	Data bit 3	14	Auto line feed*
6	Data bit 4	15	Error*
7	Data bit 5	16	Initialize printer*
8	Data bit 6	17	Select in*
9	Data bit 7	18-25	Signal ground
*Signa	al is active low.		

Table A-6 External Monitor



Pin	Signal	Pin	Signal
1	Red analog	9	+5 VDC
2	Green analog	10	Ground
3	Blue analog	11	Monitor detect
4	Not connected	12	DDC 2B data
5	Ground	13	Horizontal sync
6	Ground analog	14	Vertical sync
7	Ground analog	15	DDC 2B clock
8	Ground analog		

Table A-7 Stereo Speaker/Headphone



Pin	Signal	Pin	Signal
1	Audio out	2	Ground

Table A-8 Microphone



Pin	Signal	Pin	Signal
1	Audio in	2	Ground

Power Cord Set Requirements

3-Conductor Power Cord Set

The notebook's wide range input feature permits it to operate from any line voltage from 100 to 120 or 220 to 240 volts AC.

The power cord set received with the notebook meets the requirements for use in the country where the equipment is purchased.

Power cord sets for use in other countries must meet the requirements of the country where the notebook is used. For more information on power cord set requirements, contact a Compaq authorized reseller or service provider.

General Requirements

The requirements listed below are applicable to all countries:

- The length of the power cord set must be at least 5.00 feet (1.5 m) and a maximum of 6.50 feet (2.0 m).
- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be used.
- The power cord set must have a minimum current capacity of 10 amps and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system.
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C13 connector, for mating with the appliance inlet on the back of the notebook.

Country-Specific Requirements

3-Conductor Power Cord Set Requirements

Country	Accredited Agency	Applicable Note Number
Australia	EANSW	1
Austria	OVE	1
Belgium	CEBC	1
Canada	CSA	2
Denmark	DEMKO	1
Finland	FIMKO	1
France	UTE	1
Germany	VDE	1
Italy	IMQ	1
Japan	METI	3
The Netherlands	KEMA	1
Norway	NEMKO	1
Sweden	SEMKO	1
Switzerland	SEV	1

3-Conductor Power Cord Set Requirements

Country	Accredited Agency	Applicable Note Number
United Kingdom	BSI	1
United States	UL	2

Notes

- The flexible cord must be <HAR> Type HO5VV-F, 3-conductor, 1.0 mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country where it will be used.
- The flexible cord must be Type SPT-3 or equivalent, No. 18 AWG,
 3-conductor. The wall plug must be a two-pole grounding type with a
 NEMA 5-15P (15 A, 125 V) or NEMA 6-15P (15 A, 250 V) configuration.
- 3. The appliance coupler, flexible cord, and wall plug must bear a "T" mark and registration number in accordance with the Japanese Dentori Law. The flexible cord must be Type VCT or VCTF, 3-conductor, 1.00 mm² conductor size. The wall plug must be a two-pole grounding type with a Japanese Industrial Standard C8303 (7 A, 125 V) configuration.

Screw Listing

This appendix provides specification and reference information for the screws used in the notebook. All screws listed in this appendix are available in the Miscellaneous Screw Kit, spare part number 285290-001.

Table C-1 Phillips M3.0 × 4.0 Screw

Color	Qty.	Length	Thread	Head Width
Black	3	4.0 mm	3.0 mm	5.0 mm

Where used:

One screw that secures the hard drive to the notebook (documented in Section 5.3)

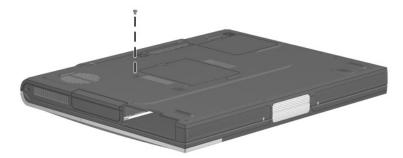


Figure C-1. Phillips M3.0 × 4.0 Screw Location

Table C-1
Phillips M3.0 × 4.0 Screw (Continued)

•	Color	Qty.	Length	Thread	Head Width
	Black	3	4.0 mm	3.0 mm	5.0 mm

Where used:

Two screws that secure the hard drive bezel to the hard drive (documented in Section 5.3)

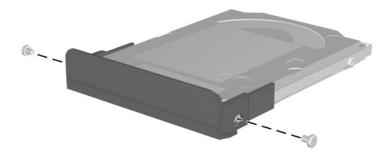


Figure C-2. Phillips M3.0 × 4.0 Screw Locations

Table C-2							
Phillips	M2.0 >	< 5.5	Screw				

Color	Qty.	Length	Thread	Head Width
Silver	2	5.5 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the connector cover to the notebook (documented in Section 5.7)

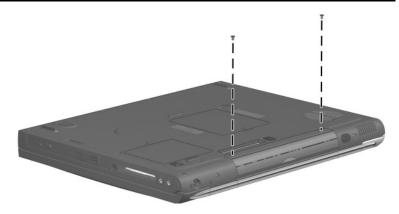


Figure C-3. Phillips M2.0 \times 5.5 Screw Locations

Table C-2 Phillips M2.0 × 5.5 Screw (Continued)

•	Color	Qty.	Length	Thread	Head Width
	Black	2	5.5 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the system board to the base enclosure on each side of the MultiBay connector (documented in Section 5.18)

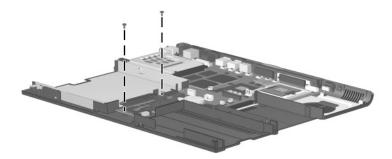


Figure C-4. Phillips M2.0 × 5.5 Screw Locations

Table C-3 Phillips M2.0 × 10.0 Screw

Color	Qty.	Length	Thread	Head Width
Black	4	10.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the LED cover to the notebook (documented in Section 5.8)

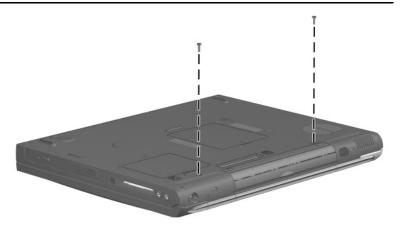


Figure C-5. Phillips M2.0 × 10.0 Screw Locations

Table C-3 Phillips M2.0 × 10.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Black	4	10.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the display hinge covers and display assembly to the notebook (documented in Section 5.10)

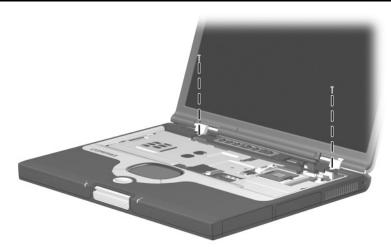


Figure C-6. Phillips M2.0 × 10.0 Screw Locations

Table C-4 Phillips M2.0 × 4.0 Screw

Color	Qty.	Length	Thread	Head Width
Gold	14	4.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the keyboard shield to the notebook (documented in Section 5.9)

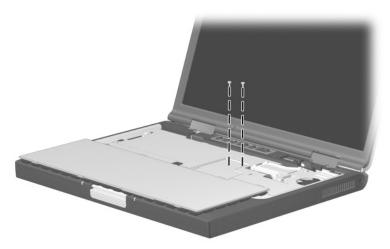


Figure C-7. Phillips M2.0 × 4.0 Screw Locations

Table C-4
Phillips M2.0 × 4.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Gold	14	4.0 mm	2.0 mm	4.0 mm

Where used:

One screw that secures the top cover to the base enclosure in the hard drive bay (documented in Section 5.11)



Figure C-8. Phillips M2.0 × 4.0 Screw Locations

Table C-4 Phillips M2.0 × 4.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Gold	14	4.0 mm	2.0 mm	4.0 mm

Where used:

- Two screws that secure the top cover to the base enclosure near the fan assembly (documented in Section 5.11)
- Two screws that secure the top cover to the base enclosure through the rear panel (documented in Section 5.11)

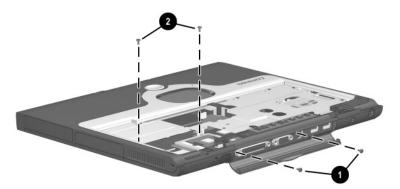


Figure C-9. Phillips M2.0 × 4.0 Screw Locations

Table C-4
Phillips M2.0 × 4.0 Screw (Continued)

(Color	Qty.	Length	Thread	Head Width
	Gold	14	4.0 mm	2.0 mm	4.0 mm

Where used:

One screw that secures the speaker assembly to the top cover (documented in Section 5.12)

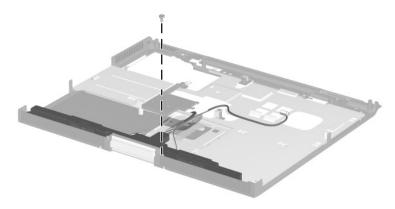


Figure C-10. Phillips M2.0 × 4.0 Screw Locations

Table C-4
Phillips M2.0 × 4.0 Screw (Continued)

₹ @	Color	Qty.	Length	Thread	Head Width
	Gold	14	4.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the display release assembly to the top cover (documented in Section 5.13)

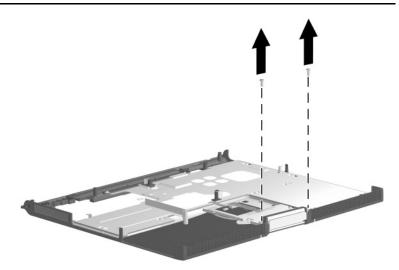


Figure C-11. Phillips M2.0 × 4.0 Screw Locations

Table C-4 Phillips M2.0 × 4.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Gold	14	4.0 mm	2.0 mm	4.0 mm

Where used:

Four screws that secure the TouchPad bracket to the top cover (documented in Section 5.14)

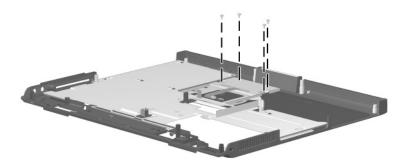


Figure C-12. Phillips M2.0 × 4.0 Screw Locations

Table C-5 Phillips M2.5 × 9.0 Screw

Color	Qty.	Length	Thread	Head Width
Black	2	9.0 mm	2.5 mm	4.0 mm

Where used:

Two screws that secure the display assembly to the notebook through the rear panel (documented in Section 5.10)



Figure C-13. Phillips M2.5 × 9.0 Screw Locations

Table C-6					
Phillips	$M2.0 \times$	8.0	Screw		

Color	Qty.	Length	Thread	Head Width
Black	15	8.0 mm	2.0 mm	4.0 mm

Where used:

Nine screws that secure the top cover to the base enclosure through the bottom of the notebook (documented in Section 5.11)

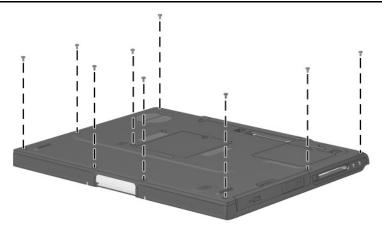


Figure C-14. Phillips M2.0 × 8.0 Screw Locations

Table C-6 Phillips M2.0 × 8.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Black	15	8.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the top cover to the base enclosure (documented in Section 5.11)

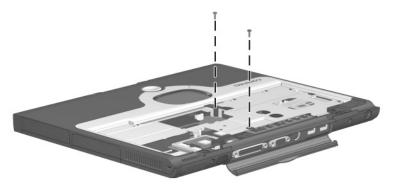


Figure C-15. Phillips M2.0 × 8.0 Screw Locations

Table C-6 Phillips M2.0 × 8.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Black	15	8.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the left and right display supports to the base enclosure (documented in Section 5.18)

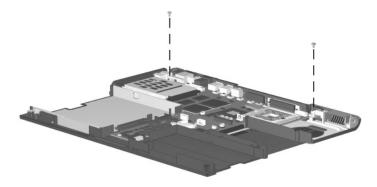


Figure C-16. Phillips M2.0 × 8.0 Screw Locations

Table C-6 Phillips M2.0 × 8.0 Screw (Continued)

Color	Qty.	Length	Thread	Head Width
Black	15	8.0 mm	2.0 mm	4.0 mm

Where used:

Two screws that secure the system board to the base enclosure through the processor support bracket (documented in Section 5.18)

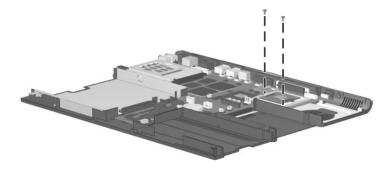


Figure C-17. Phillips M2.0 × 8.0 Screw Locations

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