Chapter Descriptions

1 Product Information

Contains printer features and product overview, tray capacities and sizes, media specifications, service approach, and how to get technical assistance.

2 Site Requirements

Contains space and environmental requirements.

3 Operating Overview

Contains details about control panel menus, restoring factory defaults, and resetting and testing the printer.

4 Maintenance and Adjustments

Contains cleaning and preventive maintenance information, and adjustment procedures for Tray 2, Tray 3, and Tray 4.

5 Functional Overview

Contains block diagrams and basic theory of operation for the printer systems, paper paths, and paper handling accessories.

6 Removal and Replacement

Contains step-by-step procedures for replacing field replaceable units (FRUs) in the printer, 2000-Sheet Input Unit, Multi-Bin Mailbox, and the Mailbox with Stapler.

7 Troubleshooting

Contains a preliminary troubleshooting table, a table with descriptions and recommended actions for all control panel messages, image defect samples, and troubleshooting checks and tools.

8 Parts and Diagrams

Contains exploded view drawings and part number listings for all replaceable parts in the printer, 2000-Sheet Input Unit, Multi-Bin Mailbox, and Mailbox with Stapler.

A Parts Index

Contains two replaceable parts tables: one sorted alphabetically by part name, and one sorted numerically by part number. Both tables are cross referenced to the diagrams in Chapter 8.

B I\O Information

Contains basic cabling and configuration information for connecting the printer to supported networks.

C Regulatory Information

Contains required safety and compliance statements.

Subject Index

Contains an alphabetical, cross referenced listing of information found in the main body of the manual.

Index

•		configuration menu		E	
2000-sheet input unit		3-13		EconoMode 1-3, 5-9	
components	5-23	features	1-3, 3-3	electrical specifications	
operation	5-26	I/O menu	3-17	1-9	Olis
see "tray 4"	6-67	job menu	3-11	electrostatic dischar	oe sensitive
	0 07	keys	3-3	(ESD)	6-5
A	c 10	layout	3-3	emissions	0.5
ac access cover	6-19	lights	3-4	acoustic	1-10
ac power distribution	on 5-6	menu map	3-9	engine test	7-8
accessories	. 7	menus	3-8	button location	7-8
user installable	6-7	MIO 1 and 2 mer		printing	7-8
accessories and opti	ions	3-18		engine test microswitch	
1-17	1 10	printing menu	3-5	5-11	11011
acoustic emissions	1-10	selecting a menu	3-8	envelope feeder	
adding	. 7	setting defaults	3-5	paper paths	5-20
memory	6-7	test menu	3-12	replacing	6-11
personalities	6-7	tray menu	3-10	envelope specificati	
adhesive labels	1-12	covers	6-19	1-11	Olis
anti-static wrist wra	p6-/	ac access	6-19	environment, operat	inσ
В		back	6-20	2-3	6
back cover	6-20	front	6-21	environmental requi	irements
black lines	7-67	lower left	6-23	2-4	irements
blank (white) page	7-64	top	6-24	2 7	
bubble print	7-71	1	0 24	ESD caution	6-5
C		D	5 10	exchange program	1-21
cartridge slots	1-3	dc controller system		exhaust	1 21
character voids	7-70	default settings	3-5	fan 1	6-32
cleaning	7 70	defaults	2.5	fan 3	6-35
printer	4-3	factory	3-5	fan 4	6-36
spilled toner	4-5	delivery unit	6-26	exhuast	0-30
clutches	5-10	detector		fan 2	6-34
cold reset	3-6	toner cartridge	5-7	external paper hand	
printer memory	3-28	determining memor	•	controller	iiig
cold reset default	3 20	requirements	1-20	replacing	6-12
paper size	3-22	dimensions, printer	1-8		0 12
components	3 22	disk drive		F	2.5
2000-sheet input	unit	replacing	6-8	factory defaults	3-5
(tray 4)	5-23	display language	3-6	settings list	3-7
multi-bin mailbo		diverter assembly	6-28	factory settings	2 -
configuration me		documentation, rela	ted	restoring	3-6
3-13		1-24		fan 1	6-32
consumables		door assembly	6.00	fan 1 housing	6-32
printer	1-22	diverter	6-29	fan 1 housing assem	ibly
control panel	3-3, 6-18	right lower	6-30	6-32	6.22
control panel	5 5, 6 16	draft mode	5 0	fan 1 motor	6-33
		see EconoMode	5-9	fan 2 (lvps)	6-34
		dropout	7-67	fan 3 (formatter)	6-35
		drum cleaning	5-14	fan 3 housing	6-35
		drum conditioning	5-15	fan 3 housing assem	ıbly
		drum rotation functi		6-35	- 25
		check	7-75 5-20	fan 3 motor	6-35
		duplex printing	5-39	fan 4 (delivery unit))
		duplex unit	7.20	6-36	5 11
		paper paths	5-20	fan motors	5-11
		replacing	6-10	faulty image examp	ies
		Duty Cycle	1-28	7-16, 7-63	7.70
				faulty registration	7-70
				fax information serv	rice (HP

EIDCT)	1 25	:				
FIRST) features	1-25 1-3	image defects black lines	7-67	memory printer	1-3	
control panel	1-3	blank (white) pag		• .	6-7	
feed roller	1-3	7-64	gC .	upgrade memory requiremen		
tray 1	6-58	bubble print	7-71	1-20	11.5	
tray 2	6-60	character voids	7-70	menu map	3-9	
tray 3	6-60	dropout	7-67	menus	3 /	
feeder assembly	6-37	faulty registration		control panel	3-8	
fonts	00,	improperly formed	. , , ,	selecting	3-8	
internal	1-3	characters	7-70	Menus, key	3-3	
formatter assembly		line at edge of pa	per	MIO		
6-39		7-69	1	Jet Direct	1-3	
formatter system	5-8	partial blank pag	e 7-72	MIO 1 and 2 menus	3-18	
front cover	6-21	repetitive defects	7-69	model number	1-7	
functional block dia	gram	•		motors	5-11	
5-4		image formation		fan	5-11, 6-33,	
functional overview	5-1 - 5-42	system	5-12	6-35		
fusing assembly	6-41	troubleshooting	7-63	main	5-11	
G		image skew	7-71	main assembly	6-46	
guidelines		image skew		scanner	5-11	
media selection	1-11	specification	7-81	tray 2 & 3 pick-u		
Н		indicator lights	3-4	multi-bin mailbo		
half self test functio	nal	input sources	5-38	blind cover	6-98	
check	7-74	interfaces		components	5-28	
hardware table	6-16	standard	1-3	covers	6-80	
high voltage power	0-10	internal typefaces	1-3	delivery head ass	embly	
distribution	5-7	Items, key	3-3	6-81		
high voltage power		J		encoder assembly 6-96		
6-54	з и ррг <i>ј</i>	job menu	3-11	flipper assembly		
high-voltage power	supply	L		input paper guide		
check	7-76	labels, adhesive	1-12	interlock switch		
HPASAP	1-25	languages		jam access door a	issembly	
HPAUDIO-TIPS	1-25	setting the displa	v 3-6	6-87	llov	
HP CompuServe Forum		languages, printer	1-3	lower elevator pulley assemblies 6-90		
1-26		laser drive	5-10	metallic tape and housing		
HP FIRST (Fax Info	ormation	laser/scanner		assembly 6-92		
Retrieval Support	t	assembly	6-42	motor	6-96	
Technology)	1-25	fan	6-32	motor, delivery head		
HP Resller Sales and	d Service	left cover	6-23	6-95	Position	
Support Line	1-26	lights		operation	5-31	
HP's Distribution C	enter	control panel	control nonel 2.4		6-98	
1-21		low voltage power		paper paths	5-28	
HPD, HP's Distribu		system	5-5	PCA, controller	6-99	
Center	1-21, 1-24	low voltage power s	supply	replacing	6-14	
hvps	5-7	5-6, 6-55	c 22	strings, anti-curl	6-100	
see "high voltage		lower left cover	6-23	transport belt	6-96	
supply"	6-54	lvps	5-5	N		
I		see "low voltage		NARC	1-26	
I/O menu	3-17	supply"	0-33	North American Res		
identification, printe	er 1-7	M		Center (NARC)		
image		main gear assembly		0		
developing	5-17	main motor	5-11	On Line key	3-3	
fusing	5-19	main motor assemb	ly	operating	3-3	
transfering	5-18	6-46	4.14.10	environment	2-3	
writing	5-16	maintenance	4-1 - 4-10	optional printer mer		
image defaults	7.71	preventive	4-6	1-3	nory	
white stripes 7-71 maintenance count, setting		-	ordering			
3-21,			6-40	parts	1-21	
		media selection guidelines		related documentation		
		1-11 media separation 5-18		1-24		
		media separation	J-10	overcurrent protection	on	
				5-6		

overhead transparence	cy	PIU		printing	
specifications	1-12	See "paper input u	ınit"	from the envelope	feeder
overvoltage protection	on	6-47		5-39	
5-6		power control	1-3	from tray 1	5-39
P		power distribution sy	ystem	from tray 2	5-38
page count		5-5		from tray 3	5-38
setting	3-21, 6-40	power save	5-8	from tray 4	5-39
verification	3-19	power save mode	1-3, 1-9,	two-sided	5-39
page usage, monthly	1-3	3-22		printing menu	3-5
paper capacities	1-4	power supply		default settings	3-5
paper curl	7-85	high voltage	6-54	product information	
paper input unit		low voltage	6-55	product overview	1-14
sensor	6-61	preventive maintena	nce	PS1	
paper input unit (PIU	T)	4-6		see "registration so	ensor"
6-47	,	print capacity, toner		6-62	
paper jam detection	5-40	print density adjustn	nent	PS2	
paper jams	7-77	5-7		see "paper input u	
paper motion		print media		sensor"	6-61
monitoring and co	ntrol	shipping	1-13	R	
5-10		specifications	1-11	recycling toner cartri	dges
paper paths		storing	1-13	1-23	ages
2000-sheet input u	ınit	print quality		reference diagrams	7-86
5-23		cleaning printer	4-3	refilled toner cartridg	
duplex unit	5-20	HP LaserJet toner		1-23	500
envelope feeder	5-20	cartridges	1-23	registration assembly	z6-56
multi-bin mailbox		refilled toner carti	idges	registration sensor	
muni-om manoox	3-20	1-23		related documentatio	
printer	5-20	transfer roller	4-3	1-24	,11
paper paths and com		print resolution	1-3	remanufactured asser	mhlies
5-20	policitis	print speed	1-3	1-21	illones
paper size switches	5 29	printer		removal and replacer	mont
paper sizes	1-4	accessories and of	otions	•	6-5
paper specifications		1-17		strategy repair philosophy	1-21
parts	1-11	adjustments	4-1 - 4-10	repetitive defects	7-69
HPD	1-24	cleaning	4-3	repetitive image defe	
	1-24	external view	1-14	7-71	ct ruiei
ordering PDO, Parts Direct Or		fonts	1-3	replacing	
1-24	ideilig	formatter assembl	ies	disk drive	6-8
	torials	1-16			6-10
SME, Support Ma		functional block d	liagram	duplex unit	
Europe	1-24	5-4		envelope feeder	6-11
	8-1 - 8-32	functionality	5-3	external paper han	
pca	c 10	identification	1-7	controller	6-12
dc controller	6-48	input sources	5-38	multi-bin mailbox	
output paper senso	DΓ	maintenance	4-1 - 4-10	tray 4	6-13
6-49	6.50	model number	1-7	required tools	6-6
paper size	6-52	optional memory		requirements	2.4
PCL configuration pa	ige	paper paths	5-20	space	2-4
3-23		serial number	1-7	reset, cold	3-28
PDO, Parts Direct On	rdering	specifications	1-8	Resolution Enhancer	
1-24		standard memory		technology	1-3, 5-9
personality		testing	3-23	resolution, print	.1-3
upgrade	6-7	timing	5-40	restoring factory sett	ıngs
phone numbers		printer dimensions	1-8	3-6	
parts sources	1-21	printer difficulties	1-3	REt	
technical assistance	e	comparison	1-3	see "Resolution E	
1-25		1	1-1 - 1-28	technology"	1-3, 5-9
photosensitive drum		printer information		REt, Resolution Enh	
cleaning	5-14	printer languages	1-3	technology	1-3
conditioning	5-15	printer space require	ments	roller	
pick-up motor	5-11	2-4		transfer	6-64
pickup roller					
tray 2	6-60				
tray 3	6-60				

rollers		toner cartridge		troubleshooting	
tray 1	6-58	cleaning spills	4-5	drum rotation fund	ctional
tray 2	6-60	defective	4-5	check	7-75
tray 3	6-60	detector	5-7	engine test	7-8
\mathbf{S}		hvps contacts	5-13	faulty image exan	npes
saving menu selection	nne	image formation s	system	7-63	•
3-8	J115	5-13	•	faulty image exan	nples
scanner drive	5-10	life expectancy	1-22	7-16	1
scanner motor	5-10	photosensitive dru	ım	half self test functional	
		5-13		check 7-74	
scanner/laser assemble 6-42	ory	print quality	1-23	high-voltage power	er suppl
screwdrivers	6-6	recycling	1-23	check	7-76
	0-0	refilled	1-23	image formation	
screws	6-16	troubleshooting	7-16, 7-63	paper curl	7-85
descriptions	3-3	used	1-23	paper jams	7-77
Select, key	3-3	warranty	1-23	troubleshooting chec	eks
sensor	6 61	tools	6-6	7-78	
paper input unit	6-61	top cover	6-24	troubleshooting tools	s
registration	6-62	training media	1-24	repetitive image d	
separation pad	c 50	transfer roller assem		ruler	7-72
tray l	6-58	6-64	oly	two-sided printing	5-39
separation roller		transparency specific	cations	typefaces	5-57
tray 2	6-60	1-12	cations	internal	1-3
tray 3	6-60			micinai	1-3
serial number	1-7	tray 1	6 65	U	
setting	3-21, 6-40	assembly	6-65	upgrading	
service approach	1-21	feed roller	6-58	memory	6-7
service mode	3-19, 7-79	media guidelines		personalities	6-7
settings and defaults	3-5	separation pad	6-58	user installable acces	ssories
shipping print media	ı 1-13	tray 2	•	6-7	
site requirements	2-1 - 2-4	adjustment proced	lure	\mathbf{W}	
SL3		4-7		warranty	1-27
See "solenoid asse	embly"	assembly	6-66	warranty limitations	
6-63	· ·	media guidelines		white stripes	7-71
slots		rollers	6-60	winte surpes	/-/1
cartridge	1-3	tray 3			
SME, Support Mate	rials	adjustment procedure			
Europe	1-21, 1-24	4-7			
SMO, Support Mate		assembly	6-66		
Organization	1-21	media guidelines	1-6		
solenoid assembly	6-63	rollers	6-60		
space requirements		tray 4	6-67		
specifications	2 .	back cover	6-67		
adhesive labels	1-12	left cover	6-68		
electrical	1-9	main drive assem	bly		
paper	1-11,	6-70			
1-24	1-11,	media guidelines	1-6		
printer	1-8	paper quantity sw			
•		assembly	6-77		
standard interfaces	1-3	paper size switch			
standard printer memory		assembly	6-77		
1-3	1 12	paper tray	6-71		
storing print media		pca controller	6-72		
Support Materials E	urope	photosensors	6-74		
1-21		pickup assembly	6-73		
Support Materials	1 01	power supply	6-75		
Organization	1-21	replacing	6-13		
T		right cover	6-69		
technical assistance	1-25	rollers	6-76		
temporary settings	3-5	transfer assembly	6-78		
test menu	3-12	•			
tests		tray menu	3-10		
printer	3-23				
T.	-				



Copyright© 1997 Hewlett-Packard Co. Printed in USA 7/97

Manual Part No. C4077-90960





C4077-90960