

HP 82240B Infrared Printer



Infrarot-
Taschendrucker

Impresora a rayos
infrarroja

Imprimante à
transmission
infrarouge

Stampante a
raggi infrarossi

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Stampante a raggi infrarossi HP 82240B

Notice

For warranty and regulatory information for this printer, see pages 24 and 26.

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Printing History

Edition 1

August 1989

Mfg. No. 82240-90015

Contents

Inhaltsverzeichnis

Contenido

Table des matières

Indice

English	3	Operating Instructions
	20	Additional Information

Deutsch	3	Bedienungsanleitung
	28	Zusatzinformationen

Español	3	Instrucciones operativas
	36	Información adicional

Français	3	Instructions d'utilisation
	45	Informations supplémentaires

Italiano	3	Istruzioni operative
	53	Informazioni aggiuntive

Operating Instructions Bedienungsanleitung Instrucciones operativas Instructions d'utilisation Istruzioni operative

Batteries Batterien Baterías Piles Batterie

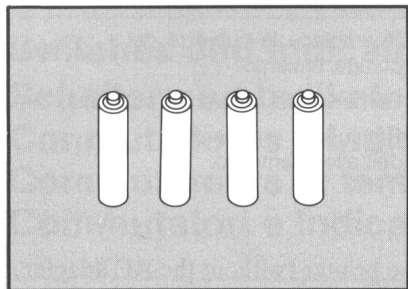
Refer to page 20 for important information about batteries.

Beziehen Sie sich für wichtige Informationen über Batterien auf Seite 28.

Véase la página 36 para información importante sobre las baterías.

Vous trouverez en page 45 des informations importantes sur les piles.

Per informazioni sulle batterie, vedi pagina 53.



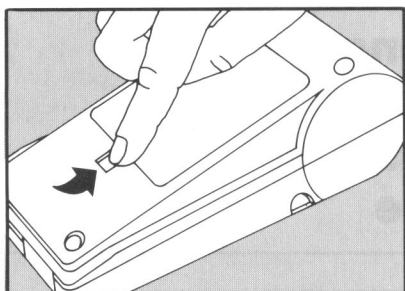
Use 4, 1.5 V alkaline AA batteries.

Verwenden Sie vier 1,5 V AA Alkali-Batterien.

Utilice 4 baterías alcalinas AA de 1,5 V.

Utilisez 4 piles alcalines de 1,5 V (taille R 06 ou AA).

Usate 4 batterie alcaline AA da 1,5 V.



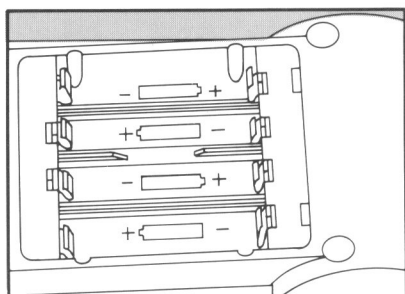
Remove battery compartment door.

Entfernen Sie die Batteriefach-
Abdeckung.

Quite la cubierta del compartimiento
de las baterías.

Enlevez le couvercle du compartiment
des piles.

Rimuovete il coperchio
dell'alloggiamento.



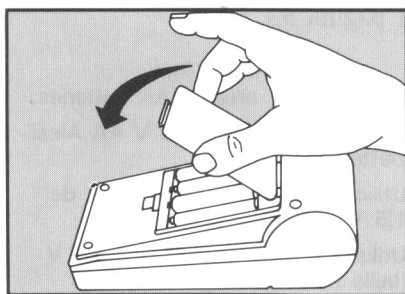
Install fresh batteries as shown.

Setzen Sie die neuen Batterien wie
abgebildet ein.

Instale baterías nuevas tal como se
muestra.

Installez les piles neuves comme
indiqué.

Installate le batterie nuove come
illustrato.



Replace battery compartment door.

Setzen Sie die Batteriefach-
Abdeckung wieder auf.

Reemplace la cubierta del
compartimiento.

Remettez le couvercle en place.

Richiudete il coperchio
dell'alloggiamento.

After about 10 minutes of inactivity, the printer (without the AC adapter) will switch to low-power mode to conserve batteries. To further extend battery life, shut the printer off when not in use, set contrast to lowest comfortable setting, and use an AC adapter.

Bei Betrieb ohne Netzteil schaltet der Drucker nach einer etwa 10-minütigen Inaktivität in einen Stromspar-Modus um, um die Batterien zu schonen. Zur weiteren Verlängerung der Batterielebenszeit sollte der Druckkontrast auf den niedersten akzeptablen Wert eingestellt und der Drucker nach Gebrauch ausgeschaltet werden. Außerdem ist das Netzteil, falls möglich, zu verwenden.

Después de aproximadamente 10 minutos de no utilizar la impresora, ésta se cambiará al modo de bajo consumo de energía para conservar las baterías (si no cuenta con adaptador de C.A.). Para extender aún más la vida útil de las baterías, apague la impresora cuando no la esté utilizando, fije el contraste en el valor mínimo que produzca texto legible, y utilice un adaptador de C.A.

Après 10 minutes d'activité environ, l'imprimante (si elle n'est pas munie de l'adaptateur pour courant alternatif) passera en mode basse-puissance pour conserver l'énergie de ses piles. Pour prolonger encore la vie des piles, n'oubliez pas d'éteindre l'imprimante lorsque vous ne l'utilisez pas et utilisez un adaptateur).

Dopo circa 10 minuti di inattività la stampante (senza l'adattatore CA) commuta nel modo basso consumo per conservare le batterie. Per prolungare ulteriormente la vita delle batterie, spegnete la stampante quando non la usate, scegliete il contrasto di stampa più basso possibile ma tale da permettervi ancora una lettura confortevole e usate un adattatore CA.

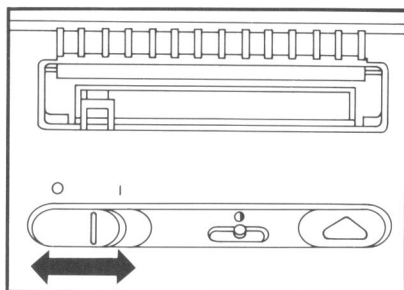
Switches and Indicators

Schalter und Indikatoren

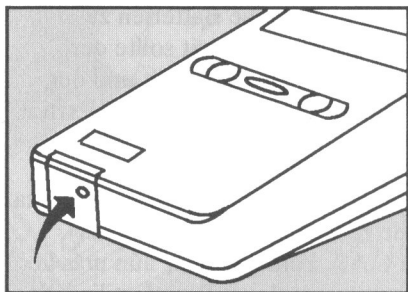
Conmutadores e indicadores

Commutateurs et témoins

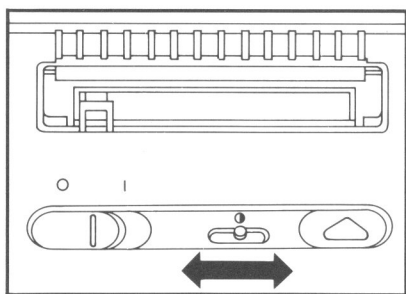
Commutatori e indicatori



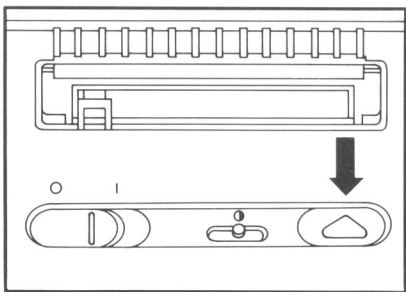
OFF (0) ↔ ON (1)
AUS (0) ↔ EIN (1)
APAGADO (0) ↔ ENCENDIDO (1)
ARRET (0) ↔ MARCHÉ (1)
ACCESO (0) ↔ SPENTO (1)



Power-on indicator light.
 Einschalt-Kontrollampe.
 Luz indicadora de encendido
 Témoïn de mise sous tension.
 Indicatore luminoso di accensione.



Print contrast, LOW ↔ HIGH.
 Druckkontrast, NIEDER ↔ HOCH.
 Contraste de impresión,
 MINIMO ↔ MAXIMO.
 Contraste : MINIMUM ↔ MAXIMUM.
 Contrasto: BASSO ↔ ALTO.



Paper advance.
 Papiervorschub.
 Alimentación del papel.
 Avance du papier.
 Avanzamento carta.

Loading Paper

Einlegen der Papierrolle

Carga del papel

Chargement du papier

Caricamento della carta

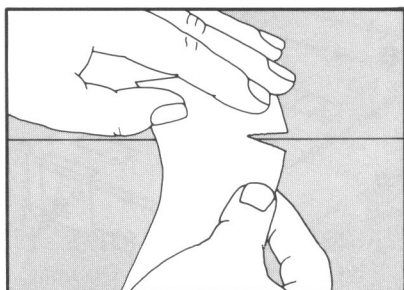
Do not operate printer without paper. For best results, use HP 82175 black-printing thermal paper. Do not pull on paper — use . Do not pull paper backward through printer. Do not run paper to end of roll if paper is attached to its inner core (HP paper is not attached).

Betreiben Sie den Drucker nie ohne Papier. Um die beste Druckqualität zu erhalten, ist schwarz druckendes Thermopapier HP 82175 zu verwenden. Ziehen Sie das Papier nicht nach vorne — drücken Sie dazu ; ziehen Sie das Papier nicht nach hinten aus dem Drucker. Benutzen Sie das Papier nicht bis zum Ende der Papierrolle, falls das Ende an den inneren Kern geklebt ist (HP Papier ist nicht festgeklebt).

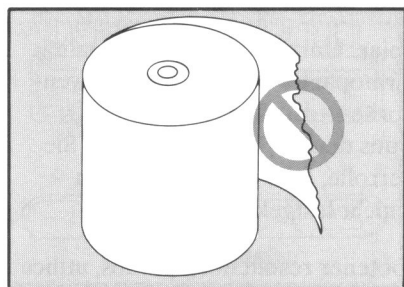
No utilice la impresora sin papel. Para obtener resultados óptimos, utilice el papel térmico HP 82175 para la impresión en color negro. No tire del papel para extraerlo; más bien, utilice . No tire del papel de modo que pase por la impresora al revés. No utilice el papel hasta llegar al final del rollo si éste está adherido al papel (el papel HP no está adherido al rollo).

N'utilisez jamais l'imprimante sans papier. Vous obtiendrez les meilleurs résultats avec le papier noir HP 82175. Ne tirez pas sur le papier pour le faire avancer — utilisez plutôt la touche . N'utilisez pas le papier jusqu'au bout si le papier est fixé au rouleau central de carton (le papier de marque HP n'est pas fixé au rouleau central).

Non usate la stampante senza carta. Per risultati migliori usate la carta termica nera HP 82175. Non tirate la carta, usate . Non tirate la carta dal retro. Non utilizzate la carta alla fine se questa è attaccata al rotolo (la carta HP non è attaccata).



Tear or cut paper evenly.
 Schneiden Sie das Papier glatt ab.
 Corte el papel uniformemente.
 Déchirez le papier régulièrement.
 Tagliate un bordo uniforme.



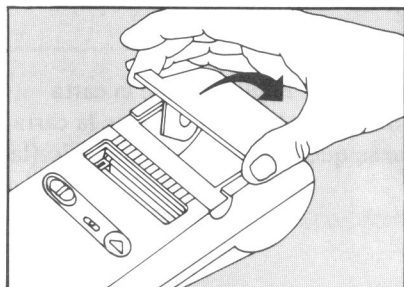
Do not use paper with folds or uneven edges. Do not allow obstructions to contact the print mechanism.

Verwenden Sie kein Papier mit Falten oder zerfransten Abrißkanten. Vermeiden Sie jegliche Behinderung des Druckmechanismus.

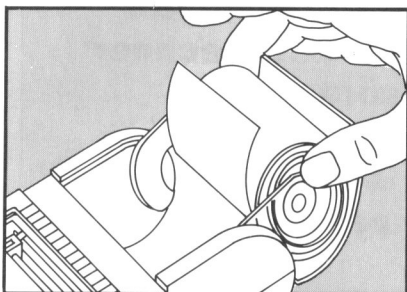
No utilice papel con pliegues o con bordes dispares. No permita que nada toque el mecanismo de impresión de manera que lo obstruya.

N'utilisez pas de papier froissé ou dont l'extrémité est irrégulière. Evitez toute obstruction du mécanisme d'impression.

Non usate carta con pieghe o bordo non uniforme. Evitate che il supporto della carta venga a contatto con il meccanismo di stampa.



Open door.
 Öffnen Sie die Papierschutzhülse.
 Abra la compuerta.
 Ouvrez le couvercle.
 Aprite il coperchio.



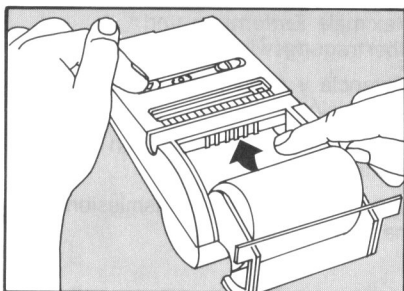
Position paper in door as shown.

Positionieren Sie das Papier wie abgebildet.

Posicione el papel en la compuerta como se muestra.

Placez le rouleau de papier dans le couvercle comme indiqué.

Posizionate la carta come illustrato.



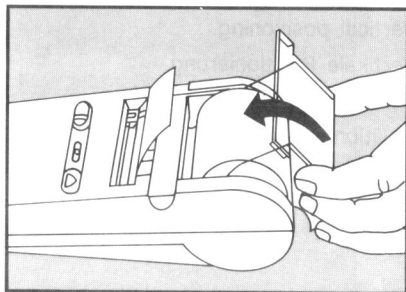
While pushing paper into slot, hold down  until paper emerges. If paper jams, pull backwards **very** slowly.

Halten Sie  gedrückt (bis das Papier erscheint), während Sie das Papier in den Schlitz schieben. Bei Papierstau ist es **sehr** langsam zurückzuziehen.

Mientras alimenta el papel en la ranura, detenga  hasta que salga el papel. Si el papel se atora, tírelo muy lentamente hacia atrás.

Tout en appuyant sur , poussez le papier dans la fente jusqu'à ce qu'il ressorte. S'il se coince, tirez-le en arrière **très** lentement.

Mentre spingete la carta nella fessura, tenete premuto  fino ad aggancio avvenuto. Se la carta si inceppa, estraetela dal retro **molto** lentamente.



Place paper in compartment. Close door.

Legen Sie die Papierrolle ein und schließen Sie die Schutzklappe.

Coloque el papel en el compartimiento. Cierre la compuerta.

Placez le rouleau de papier dans le compartiment. Refermez le couvercle.

Ponete la carta nell'alloggiamento. Chiudete il coperchio.

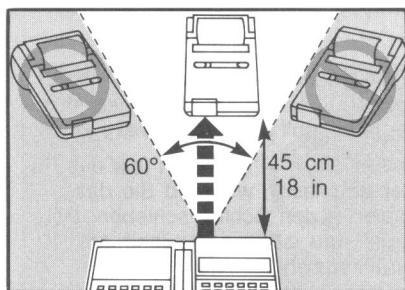
Positioning the Printer and Calculator

Positionieren von Drucker und Rechner

Colocación de la impresora y de la calculadora

Positionner imprimante et calculateur

Posizionamento di stampante e calcolatore



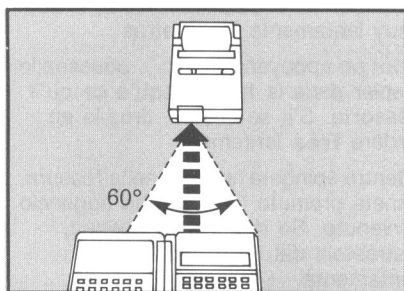
Maximum transmitting distance and angle.

Maximale Entfernung und Übertragungswinkel.

Distancia y ángulo máximos de transmisión.

Distance et angle d'émission maximaux.

Distanza e angolo di trasmissione massimi.



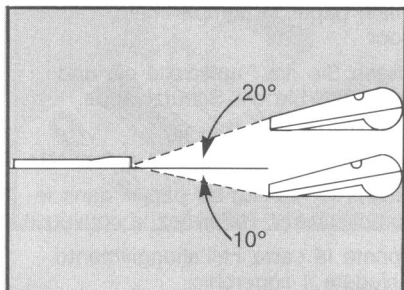
Maximum receiving angle.

Maximaler Empfangswinkel.

Angulo máximo de recepción.

Angle de réception maximal.

Angolo massimo di ricezione.



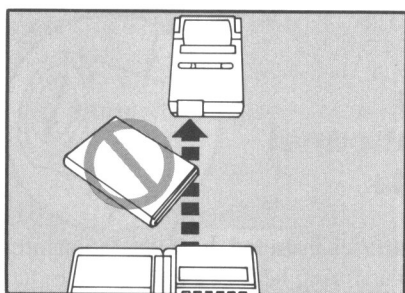
Vertical positioning.

Vertikale Positionierung.

Colocación vertical.

Positionnement vertical.

Posizionamento verticale.



Do not obstruct infrared beam.

Versperren Sie nicht den
Übertragungsweg.

No obstruya el rayo infrarrojo.

Pas d'obstacles dans le rayon
infrarouge.

Non ostruite il fascio di raggi
infrarossi.

Optional AC Adapter

Optionales Netzteil

Adaptador CA optativo

Adaptateur secteur optionnel

Adattatore ca opzionale

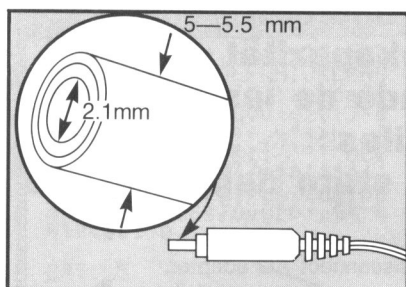
Do not use the AC adapter without batteries installed, because the printer may require supplemental battery power during heavy printing. Use either the HP AC adapter designed for the printer or one that meets the specifications on page 13. Slight battery depletion does occur during printing using the AC adapter.

Verwenden Sie das Netzteil nie ohne eingesetzte Batterien, da der Drucker bei extremen Druckanforderungen auf zusätzliche Stromversorgung durch die Batterien angewiesen ist. Verwenden Sie entweder das von HP vorgesehene Netzteil oder eines, welches den auf Seite 13 dargestellten Spezifikationen genügt. Es tritt ein geringer Batterieverbrauch ein, selbst wenn der Drucker über das Netzteil betrieben wird.

No debe utilizar el adaptador de C.A. sin haber instalado primero las baterías, ya que la impresora recurre a las baterías como fuente suplementaria durante períodos de alto consumo de energía. Puede utilizar el adaptador de C.A. de Hewlett-Packard, el cual ha sido diseñado para esta impresora, o bien, puede utilizar uno que satisfaga las especificaciones de la página 13. Las baterías se agotarán lentamente, aun cuando se utilice el adaptador de C.A.

N'utilisez pas l'adaptateur pour courant alternatif sans piles à l'intérieur de l'imprimante : il se peut que l'imprimante ait besoin de l'alimentation supplémentaire que fournissent les piles lors de travaux lourds d'impression. Utilisez soit l'adaptateur HP conçu pour l'imprimante, soit un adaptateur qui corresponde aux spécifications décrites en page 13. Une légère utilisation de la puissance des piles a lieu lors des impressions réalisées lorsque l'adaptateur est branché.

Non usate l'adattatore CA senza le batterie installate perché la stampante può richiedere energia supplementare dalle batterie durante stampe continue. Potete usare sia l'adattatore CA HP designato per la stampante, sia un qualsiasi altro adattatore che possieda le caratteristiche riportate a pagina 13. Utilizzando l'adattatore CA si prolunga la durata delle batterie.



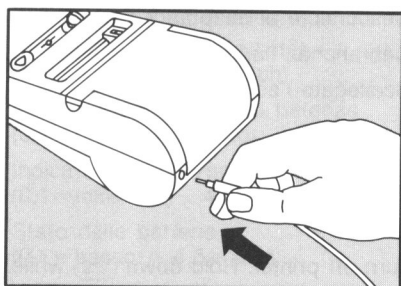
Specifications: 9—12 V AC or DC;
500—1500 mA.*

Spezifikationen: 9—12 V AC oder DC;
500—1500 mA.*

Especificaciones: 9—12 V CA o CC;
500—1500 mA.*

Spécifications : 9—12 V ca ou cc ;
500—1500 mA.*

Specifiche: 9—12 V ca o cc; 500—
1500 mA.*



Connect adapter to printer.

Schließen Sie das Netzteil an den
Drucker an.

Conecte el adaptador a la impresora.

Branchez l'adaptateur à l'imprimante.

Collegate l'adattatore alla stampante.

* U.S.A./Canada: HP 82241A; elsewhere: HP 82241Ax where x is a letter designating various models for other countries. For additional information, refer to page 20.

USA/Kanada: HP 82241A; ansonsten: HP 82241Ax, wobei x als Kennzeichen für das länderspezifische Netzteil dient. Beziehen Sie sich für weitere Informationen dazu auf Seite 28.

EE.UU./Canadá: HP 82241A; en otros lugares: HP82241Ax, donde x es una letra que designa varios modelos para otros países. Para información adicional, véase la página 36.

U.S.A./Canada : HP 82241A ; ailleurs : HP 82241Ax, où x est une lettre identifiant les différents modèles pour les autres pays. Voir page 45 pour plus de renseignements.

U.S.A./Canada: HP 82241A; altrove: HP 82241Ax dove x è la lettera che designa i modelli per i vari paesi. Per ulteriori informazioni, vedi pagina 53.

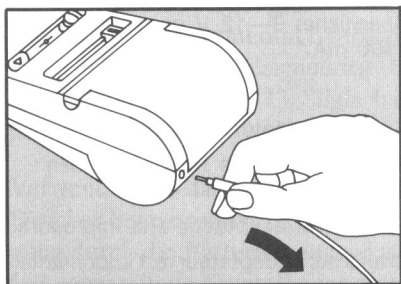
Self-Test and Battery Condition

Selbsttest und Batteriekapazität

Autoverificación y estado de las baterías

Auto-test et état des piles

Test autodiagnostico e stato delle batterie



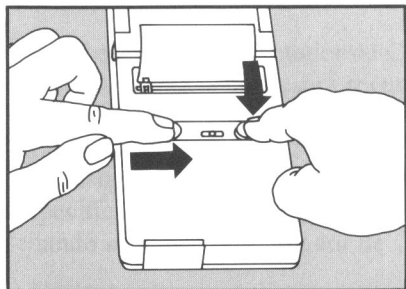
Disconnect AC adapter.

Ziehen Sie den Anschlußstecker des Netzteils ab.

Desconecte el adaptador CA.

Débranchez l'adaptateur secteur.

Scollegate l'adattatore ca.



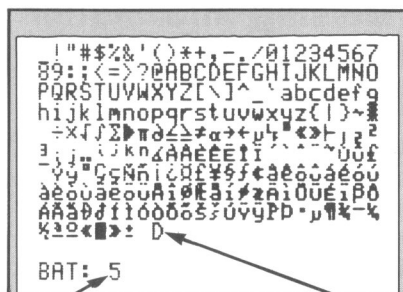
Turn off printer. Hold down  while turning printer on, then release .

Schalten Sie den Drucker aus. Halten Sie  gedrückt, während Sie den Drucker einschalten, und geben Sie danach  wieder frei.

Apague la impresora. Detenga  mientras enciende la impresora, luego libere .

Eteignez l'imprimante. Appuyez ensuite sur  tout en rallumant l'imprimante, puis relâchez .

Spegnete la stampante. Tenete premuto  ed accendete la stampante, poi rilasciate .



Self-test.

Selbsttest.

Autoverificación.

Auto-test.

Test autodiagnostico.

Battery condition index
(0,1=low — 4,5=high).

Status für Batteriekapazität
(0,1=nieder — 4,5=hoch).

Indice de estado de las baterías
(0,1=bajo — 4,5=alto).

Indicateur de charge des piles
(0,1=minimum — 4,5=maximum).

Stato delle batterie
(0,1=basso — 4,5=alto).

Identification letter; for factory use
only.

Identifikationszeichen; (nur für
Wartungszwecke)

Letra de identificación; Para el uso
técnico de la fábrica solamente.

Lettre d'identification ; utilisée en
usine uniquement.

Lettera di identificazione; ad uso
esclusivo della fabbrica.

For additional information, refer to page 21.

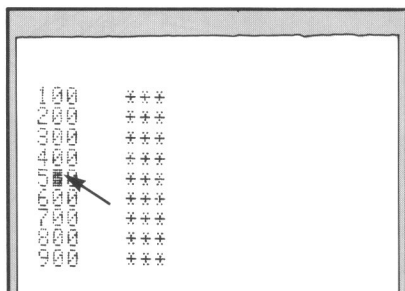
Beziehen Sie sich für weitere Informationen auf Seite 29.

Para información adicional, véase la página 37.

Voir page 46 pour plus de renseignements.

Per ulteriori informazioni, vedi pagina 54.

Detecting Incorrect or Missing Information
Falsche oder fehlende Informationen
Información incorrecta o faltante.
Données incorrectes ou manquantes
Informazioni mancanti o non corrette



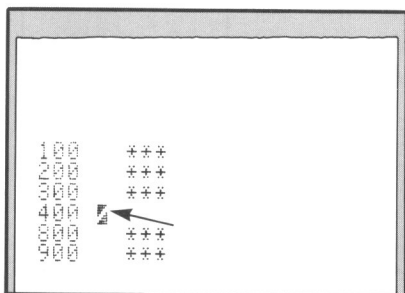
A character was received incorrectly.

Ein Zeichen wurde fehlerhaft
empfangen.

Se recibió un carácter
incorrectamente.

Réception incorrecte d'un caractère.

Ricezione non corretta di un
carattere.



Information has been lost.
Information ging verloren.
Se ha perdido información.
Des données ont été perdues.
Perdita di informazioni.

For additional information, refer to page 21.

Beziehen Sie sich für weitere Informationen auf Seite 29.

Para información adicional véase la pagina 38.

Voir page 46 pour plus de renseignements.

Per ulteriori informazioni, vedi pagina 54.

Character Codes

Zeichencodes

Códigos de carácter

Valeurs décimales des caractères

Codice dei caratteri

		ROMAN 8 ECMA 94		ROMAN 8 ECMA 94		ROMAN 8 ECMA 94	
C→	4	53	5 5	78	N N	103	g g
LF	10	54	6 6	79	O O	104	h h
ESC	27	55	7 7	80	P P	105	i i
ROMAN 8 ECMA 94		56	8 8	81	Q Q	106	j j
32		57	9 9	82	R R	107	k k
33	!	58	: :	83	S S	108	l l
34	"	59	; ;	84	T T	109	m m
35	#	60	< <	85	U U	110	n n
36	\$	61	= =	86	V V	111	o o
37	%	62	> >	87	W W	112	p p
38	&	63	? ?	88	X X	113	q q
39	'	64	@ @	89	Y Y	114	r r
40	(	65	A A	90	Z Z	115	s s
41	)	66	B B	91	[	116	t t
42	*	67	C C	92	\	117	u u
43	+	68	D D	93	]	118	v v
44	,	69	E E	94	^	119	w w
45	-	70	F F	95	_	120	x x
46	.	71	G G	96	`	121	y y
47	/	72	H H	97	a a	122	z z
48	0	73	I I	98	b b	123	(
49	1	74	J J	99	c c	124	
50	2	75	K K	100	d d	125	)
51	3	76	L L	101	e e	126	~
52	4	77	M M	102	f f	127	⌘

ROMAN ECMA 8 94		ROMAN ECMA 8 94		ROMAN ECMA 8 94		ROMAN ECMA 8 94	
128	Δ	160	Δ	192	Ǻ	224	Ǻ
129	÷	161	Ǻ	193	Ǻ	225	Ǻ
130	×	162	Ǻ	194	Ǻ	226	Ǻ
131	√	163	Ǻ	195	Ǻ	227	Ǻ
132	∫	164	Ǻ	196	Ǻ	228	Ǻ
133	Σ	165	Ǻ	197	Ǻ	229	Ǻ
134	►	166	Ǻ	198	Ǻ	230	Ǻ
135	π	167	Ǻ	199	Ǻ	231	Ǻ
136	ð	168	Ǻ	200	Ǻ	232	Ǻ
137	∠	169	Ǻ	201	Ǻ	233	Ǻ
138	≥	170	Ǻ	202	Ǻ	234	Ǻ
139	≠	171	Ǻ	203	Ǻ	235	Ǻ
140	α	172	Ǻ	204	Ǻ	236	Ǻ
141	→	173	Ǻ	205	Ǻ	237	Ǻ
142	+	174	Ǻ	206	Ǻ	238	Ǻ
143	μ	175	Ǻ	207	Ǻ	239	Ǻ
144	↳	176	Ǻ	208	Ǻ	240	Ǻ
145	□	177	Ǻ	209	Ǻ	241	Ǻ
146	«	178	Ǻ	210	Ǻ	242	Ǻ
147	»	179	Ǻ	211	Ǻ	243	Ǻ
148	†	180	Ǻ	212	Ǻ	244	Ǻ
149	‡	181	Ǻ	213	Ǻ	245	Ǻ
150	£	182	Ǻ	214	Ǻ	246	Ǻ
151	¢	183	Ǻ	215	Ǻ	247	Ǻ
152	³	184	Ǻ	216	Ǻ	248	Ǻ
153	¼	185	Ǻ	217	Ǻ	249	Ǻ
154	½	186	Ǻ	218	Ǻ	250	Ǻ
155	¾	187	Ǻ	219	Ǻ	251	Ǻ
156	⅞	188	Ǻ	220	Ǻ	252	Ǻ
157	⅘	189	Ǻ	221	Ǻ	253	Ǻ
158	⅙	190	Ǻ	222	Ǻ	254	Ǻ
159	⅓	191	Ǻ	223	Ǻ	255	Ǻ

Additional Information

Operating Information

Automatic Power-Down. To conserve battery power, the printer will switch to a low-power mode about 10 minutes after you stop using it. To reactivate the printer, press the paper advance button. Everything previously accumulated in the printer is retained. Power-down will not occur if the AC adapter is used.

Batteries. Battery life for alkaline batteries is approximately 6000 print lines of continuous printing. To prolong battery life,

- Set print contrast to the lightest comfortable setting.
- Turn the printer off when it is not in use.
- Use the optional AC adapter (refer to pages 12 and 13 for additional information).

You should install fresh batteries when any of the following conditions occur:

- The print contrast is uncomfortably low, even when the print contrast control is set to highest contrast.
- Printing slows because the print head moves across the paper at a much slower speed. (When a large amount of information—over 200 characters—is transmitted by the calculator, printing slows because the printer pauses momentarily before printing each new line. However, the print head moves across the paper at normal speed. This is *not* a symptom of low batteries.)
- Printing halts before all information on a line has been printed.
- The battery condition index printed at the end of the self test is 1 or 0.

If you are not planning to use the printer in the near future, you should remove the batteries before storing the printer.

You can use rechargeable batteries, but they cannot be recharged inside the printer. Battery life for a single charge is less than for alkaline batteries.

Self-Test and Battery Condition Index. If you suspect that the printer is not operating properly, run the self-test (refer to page 14.) If the printer fails the self-test, rerun the test to verify the results. If the printer fails again, it requires service. The self-test can be run using the optional AC adapter; however, the battery condition index will not be accurate.

The battery condition index is a number from 0 to 5 that describes how much useful battery life remains. Regardless of the battery condition index, you should install new batteries when any of the symptoms of low batteries appear. If you anticipate needing to operate the printer from batteries without interruption for an extended period of time, you may want to install new batteries before the index has dropped to 1.

Controlling the print head. If you turn the printer off while it is printing, the print head may stop in the middle of the line. To return the print head to the left side of the paper, turn the printer on, then off. Leaving the print head in the middle of a line causes *temporary* lightening of characters in that column; continued printing restores the print contrast in that position.

Incorrect or missing characters. The ■ character is printed if the printer detects incorrect data due to interference with or interruption of the stream of incoming information. Common causes for incorrect data are improper positioning of the printer with respect to the calculator (distance and/or angle), obstruction of the infrared beam, or interference from another infrared source.

The ▣ character is printed if information is lost because the printer cannot print fast enough to keep up with incoming data.

Environmental Limits. You should observe the following temperature and humidity limits to preserve product reliability—operating temperature: 0° to 50°C (32° to 122°F), storage temperature: –40° to 60°C (–40 to 140°F), humidity: 5% to 95% relative humidity at 40°C (104°F).

Control Codes, Escape Sequences, and Graphics

This information applies only to those calculators capable of sending control characters. If your calculator is capable of sending control characters, the necessary keystrokes are covered in the calculator owner’s documentation.

The following table lists control characters and escape sequences accepted by the printer. The printer interprets the character with decimal value 27 plus the character following it as an escape sequence.

Control Codes and Escape Sequences

Character(s)*	Meaning
10	End of line; print line and perform carriage return/line feed.
4	Print line and leave print head at right; use before each line of graphics to ensure that multiple lines of graphics line up vertically.
27 255	Reset printer.
27 254	Start self-test.
27 253	Start printing expanded characters.
27 252	Return to normal-width characters.
27 251	Start printing underlined characters.
27 250	Stop underlining.
* Numbers represent decimal values of characters.	

Control Codes and Escape Sequences (Continued)

Character(s)*	Meaning
27 249	ECMA 94 character set.
27 248	Roman 8 character set.
27 x_{char} $C_1, C_2, \dots, C_x$	Print x dot columns of graphics; x_{char} represents the character with decimal value x ($x = 1$ through 166). $C_1, C_2, \dots, C_x$ are characters whose decimal values determine where dots are printed in each column. The decimal value of C_x equals the sum of the values of the dots in column x.
* Numbers represent decimal values of characters.	

Value of dot in
this position.

•	1
•	2
•	4
•	8
•	16
•	32
•	64
•	128

$C_1 C_2 \dots C_x$

Example column

•	1
•	4
•	8
•	64

Decimal value of column = 77
(Character = M)

Warranty and Service

Limited One-Year Warranty. The printer (except for the batteries and damage caused by the batteries) is warranted by Hewlett-Packard against defects in materials and workmanship for one year from the date of original purchase. If you sell your unit or give it as a gift, the warranty is automatically transferred to the new owner and remains in effect for the original one-year period. During the warranty period, we will repair or, at our option, replace at no charge a product that proves to be defective, provided you return the product, shipping prepaid, to a Hewlett-Packard service center. *Batteries, and damage caused by the batteries, are not covered by the Hewlett-Packard warranty. Check with the battery manufacturer about battery and battery leakage warranties.* This warranty does not apply if the product has been damaged by accident or misuse or as the result of service or modification by other than an authorized Hewlett-Packard service center.

No other express warranty is given. The repair or replacement of a product is your exclusive remedy. **ANY OTHER IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE ONE-YEAR DURATION OF THIS WRITTEN WARRANTY.** Some states, provinces, or countries do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. **IN NO EVENT SHALL HEWLETT-PACKARD COMPANY BE LIABLE FOR CONSEQUENTIAL DAMAGES.** Some states, provinces, or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province, or country to country.

Products are sold on the basis of specifications applicable at the time of manufacture. Hewlett-Packard shall have no obligation to modify or update products once sold.

If you have any questions concerning this warranty, please contact an authorized Hewlett-Packard dealer or a Hewlett-Packard sales and service office. Should you be unable to contact them, please contact one of the entities listed on page 60.

Warranty for Consumer Transactions in the United Kingdom.

This warranty shall not apply to consumer transactions and shall not affect the statutory rights of a consumer. In relation to such transactions, the rights and obligations of Seller and Buyer shall be determined by statute.

Service. Hewlett-Packard maintains service centers in most major countries throughout the world. You may have your printer serviced at a Hewlett-Packard service center any time it malfunctions, whether the unit is under warranty or not. There is a charge for service after the one-year warranty period.

Obtaining Service in the United States: Ship the printer to the U.S. Calculator Service Center, 1030 N E Circle Blvd., Corvallis, OR 97330 (Telephone: (503) 757-2002).

Obtaining Service in Europe: Contact an HP entity listed on page 61 for the address of the nearest service center. **Do not** ship the printer to one of these addresses without first contacting them.

Obtaining Service in Countries Outside the United States and Europe: Not all Hewlett-Packard service centers offer service for all HP calculator products. However, if you bought your printer from an authorized HP dealer, you can be sure that service is available in the country where you bought it. If you are outside the country where you bought the printer, you can contact one of the entities listed on page 61 or a local HP service center to see if service is available for it. If service is unavailable, please ship the unit to the United States Calculator Service Center. A list of service centers for other countries can be obtained by writing to that address. All shipping, reimportation arrangements, and customs costs are your responsibility.

When shipping the printer for service, you should include your return address and description of the problem. If the one-year warranty has not expired, also include a sales receipt or other documentary proof of purchase date.

The printer and accompanying information should be packaged in adequate protective packaging. In-transit damage is not covered by the one-year limited warranty; Hewlett-Packard suggests that you insure the shipment to the service center. It is your responsibility to pay shipping charges for delivery to the Hewlett-Packard service center. The serviced printer is returned to you with postage prepaid.

There is a standard charge for out-of-warranty service that includes labor and materials. In the United States, the full charge is subject to the customer's local sales tax. In European countries, the full charge is subject to Value Added Tax (VAT) and similar taxes wherever applicable. All such taxes will appear as separate items on invoiced amounts. Any out-of-warranty service is warranted against defects in materials and workmanship for a period of 90 days from the date of service.

Calculator products damaged by accident or misuse are not covered by the fixed service charges. In these situations, service charges will be individually determined based on time and material.

A service support agreement is available for your product. Refer to the literature included in the box. For additional information, please contact the Calculator Service Center; the address and phone number are listed on the previous page.

Safety and Regulatory Information

For your protection, the printer has been tested to various national and international regulatory standards. This regulatory testing includes electrical/mechanical safety, radio interference, ergonomics, acoustics, and hazardous materials. Where required, approvals obtained from third-party test agencies are shown on bottom of the product. (Certain regulatory information for other countries is provided in this manual in other languages.)

Potential for Radio/TV Interference (United States). The printer generates and uses radio frequency energy and may cause interference to radio and television reception. Although the printer has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation, there is no guarantee that interference will not occur in a particular installation. In the unlikely event that there is interference to radio or television reception (which can be determined by turning the printer off and on, disconnecting the AC adapter, or removing the batteries), you are encouraged to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the product with respect to the receiver.
- Plug the AC adapter into an outlet on a different branch line than the receiver.

If necessary, you should consult your dealer or an experienced radio/television technician for additional suggestions. You may find the following booklet, prepared by the Federal Communications Commission, helpful: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock Number 004-000-00345-4. At the first printing of this manual, the telephone number was (202) 783-3238.

Contacting Hewlett-Packard

For Information About Using the Printer. If you have questions about how to use the printer, contact the Calculator Support department:

Hewlett-Packard
Calculator Support
1000 N.E. Circle Blvd.
Corvallis, OR 97330, U.S.A.

(503) 757-2004
8:00 a.m. to 3:00 p.m. Pacific time
Monday through Friday

For Service. If you are in the United States and your printer requires service, mail it to the Calculator Service Center:

Hewlett-Packard
Calculator Service Center
1030 N.E. Circle Blvd.
Corvallis, OR 97330, U.S.A.
(503) 757-2002

If you are outside the United States, refer to page 61 for information on locating the nearest service center.

Hewlett-Packard
Corvallis Division
1000 N.E. Circle Blvd.
Corvallis, OR 97330

In Europe: Hewlett-Packard S.A.
150, Route du Nant-d'Avril
P.O. Box
CH-1217 Meyrin 2
Geneva, Switzerland

Other international locations:
Hewlett-Packard Intercontinental
3495 Deer Creek Road
Palo Alto, CA 94304 U.S.A.



Reorder Number

82240-90014

82240-90015 Multilingual

Printed in Singapore 8/89

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