EPSON
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ESC/Label Command List

CW-C4000 Series

M00141501
Rev. B

Cautions

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About this document

This document provides the command information indicated in the ESC/Label Command Reference Guide (Rev. I) listed alphabetically according to the command name and includes model information.

REVISION SHEET

Revision	Summary
A	Enactment
B	Changed the lists of printer errors and warnings

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^A		Font	Sets the font used to render character strings in the field.	Text	^Afo,h,w	f: Font identifier	0 ≤ f ≤ 9, Capital letter of the alphabet (A to Z)	0 ≤ f ≤ 9, Capital letter of the alphabet (A to Z)		^A	Low
						o: Field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)			
						h: Character height [dot]	0 ≤ h ≤ 9999	0 ≤ h ≤ 3000			
						w: Character width [dot]	0 ≤ w ≤ 9999	0 ≤ w ≤ 3000			
^A@		Font file	Sets the font used to render character strings in the field.	Text	^A@o,h,w,d:f.x	o: Field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^A@	Low
						h: Character height [dot]	0 ≤ h ≤ 9999	0 ≤ h ≤ 3000			
						w: Character width [dot]	0 ≤ w ≤ 9999	0 ≤ w ≤ 3000			
						d: Font storage drive	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory			
						f: Font file name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = FNT/TTF/TTE/DAT	x = FNT/TTF/TTE/DAT			
^B(Q		Micro QR Code	Creates a Micro-QR Code symbol with a smaller symbol size than the QR Code.	Barcode	^B(Qo,v,s	o: Micro QR Code field orientation	o = N (Fixed) N: Normal	o = N (Fixed) N: Normal			Low
						v: Micro QR Code version	v = 0/1/2/3/4 0: Auto 1: M1 (11 × 11) 2: M2 (13 × 13) 3: M3 (15 × 15) 4: M4 (17 × 17)	v = 0: Auto			
						s: Micro QR Code module size [dot]	1 ≤ s ≤ 99	1 ≤ s ≤ 20			

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								Definition range	Factory-set initial value		
^B(R		GS1 Databar (HRI character attachable)	^B(R command generates GS1 DataBar as well as ^BR command. HRI character is attachable.	Barcode	^B(Ra,b,c,d,e,f,g	a: Field orientation	a = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	a = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)			Low
						b: Type of barcode or symbol	1 ≤ b ≤12 1: GS1 DataBar 2: GS1 DataBar Truncated 3: GS1 DataBar Stacked 4: GS1 DataBar Stacked Omnidirectional 5: GS1 DataBar Limited 6: GS1 DataBar Expanded 7: UPC-A 8: UPC-E 9: EAN-13 10: EAN-8 11: UCC/EAN-128 and CC-A/CC-B 12: UCC/EAN-128 and CC-C	1 ≤ b ≤12 1: GS1 DataBar 2: GS1 DataBar Truncated 3: GS1 DataBar Stacked 4: GS1 DataBar Stacked Omnidirectional 5: GS1 DataBar Limited 6: GS1 DataBar Expanded 7: UPC-A 8: UPC-E 9: EAN-13 10: EAN-8 11: UCC/EAN-128 and CC-A/CC-B 12: UCC/EAN-128 and CC-C			
						c: Magnification factor of barcode or symbol	1 ≤ c ≤ 99	1 ≤ c ≤ 20			
						d: Height of separator	d = 1/2	d = 1/2			
						e: Height of barcode part [dot]	1 ≤ e ≤ 32000	1 ≤ e ≤ 9600			
						f: Number of segments	2 ≤ f ≤ 22, even numbers only	2 ≤ f ≤ 22, even numbers only			
						g: Set/cancel of HRI character addition	g = Y/N Y: Set N: Cancel	g = Y/N Y: Set N: Cancel			
^B(V		Set barcode printing validation function	Use the ^B(V command to enable/disable the barcode printing validation function.	Barcode	^B(Va	a: Barcode printing validation function	a = Y/N Y: Enabled N: Disabled	a = Y/N Y: Enabled N: Disabled			Low
^B0		Aztec Code	Sets the Aztec Code symbol to the field.	Barcode	^B0o,m,e,t,i,n,id	o: Aztec Code field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^B0	Low
						m: Aztec Code module size	1 ≤ m ≤ 99	1 ≤ m ≤ 20			
						e: Aztec Code extended channel interpretation (ECI) enabled/disabled	e = Y/N Y: Enabled N: Disabled	e = N N: Disabled			
						t: Aztec Code mode type and data layer count	t = 0 01 ≤ t ≤ 99 101 ≤ t ≤ 104 201 ≤ t ≤ 232 t = 300	t = 0 01 ≤ t ≤ 99 101 ≤ t ≤ 104 204 ≤ t ≤ 232			
						i: Aztec Code leader initialization symbol	i = Y/N Y: Yes N: No	i = N N: No			
						n: Number of symbols for structured append with Aztec Code	1 ≤ n ≤ 26	1 ≤ n ≤ 26			
						id: Aztec Code message ID	ASCII code within 24 characters	ASCII code within 24 characters			

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								Definition range	Factory-set initial value		
^B2		Interleaved 2 of 5 barcode	Sets Interleaved 2 of 5 barcode to the field.	Barcode	^B2o,h,i,a,c	o: Interleaved 2 of 5 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^B2	Low
						h: Interleaved 2 of 5 barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for Interleaved 2 of 5	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of Interleaved 2 of 5 barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
						c: Set/cancel check digit printing for Interleaved 2 of 5	c = Y/N Y: Set N: Cancel	c = Y/N Y: Set N: Cancel			
^B3		Code 39 barcode	Sets Code 39 barcode to the field.	Barcode	^B3o,c,h,i,a	o: Code 39 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^B3	Low
						c: Set/cancel check digit printing for Code 39	c = Y/N Y: Set N: Cancel	c = Y/N Y: Set N: Cancel			
						h: Code 39 barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for Code 39	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of Code 39 barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
^B7		PDF417 barcode	Sets the PDF417 symbol to the field.	Barcode	^B7o,h,e,c,r,t	o: PDF417 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^B7	Low
						h: PDF417 row height [dot]	1 ≤ h ≤ Label length	1 ≤ h ≤ 9600			
						e: PDF417 error correction level	0 ≤ e ≤ 8	0 ≤ e ≤ 8			
						c: PDF417 column count	c = 0 (Auto) 1 ≤ c ≤ 30	c = 0 (Auto) 1 ≤ c ≤ 30			
						r: PDF417 row count	r = 0 (Auto) 3 ≤ r ≤ 90	r = 0 (Auto) 3 ≤ r ≤ 90			
						t: Truncate right row indicators and stop pattern for PDF417	t = Y/N Y: Set N: Cancel	t = Y/N Y: Set N: Cancel			

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								Definition range	Factory-set initial value		
^B8		EAN-8 barcode	Sets EAN-8 barcode to the field.	Barcode	^B8o,h,i,a	o: EAN-8 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^B8	Low
						h: EAN-8 barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for EAN-8	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of EAN-8 barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
^B9		UPC-E barcode	Sets UPC-E barcode to the field.	Barcode	^B9o,h,i,a,c	o: UPC-E field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^B9	Low
						h: UPC-E barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for UPC-E	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of UPC-E barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
						c: Set/cancel check digit printing for UPC-E	c = Y/N Y: Set N: Cancel	c = Y/N Y: Set N: Cancel			
^BA		Code 93 barcode	Sets Code 93 barcode to the field.	Barcode	^BAo,h,i,a,c	o: Code 93 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BA	Low
						h: Code 93 barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for Code 93	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of Code 93 barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
						c: Set/cancel check digit printing for Code 93	c = Y/N Y: Set N: Cancel	c = Y/N Y: Set N: Cancel			

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[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^BC		Code 128 barcode	Sets Code 128 barcode to the field.	Barcode	^BCo,h,i,a,c,m	o: Code 128 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BC	Low
						h: Code 128 barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for Code 128	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of Code 128 barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
						c: Addition of a Mod10 check digit for Code 128	c = Y/N Y: Yes N: No	c = Y/N Y: Yes N: No			
						m: Code 128 mode	m = N/U/A/D N: Normal U: UCC Case A: Automatic D: UCC/EAN	m = N/U/A/D N: Normal U: UCC Case A: Automatic D: UCC/EAN			
^BD		MaxiCode	Sets the MaxiCode symbol to the field.	Barcode	^BDm,n,q	m: MaxiCode mode	m = 2/3/4/5/6 2: Structured carrier message: numeric postal code (U.S.A.) 3: Structured carrier message: alphanumeric postal code (International) 4: Standard symbol 5: Full EEC 6: Reader program	m = 2/3/4/5/6 2: Structured carrier message: numeric postal code (U.S.A.) 3: Structured carrier message: alphanumeric postal code (International) 4: Standard symbol 5: Full EEC 6: Reader program		^BD	Low
						n: Number in the MaxiCode structured append	1 ≤ n ≤ 8	1 ≤ n ≤ 8			
						q: Total number of symbols in the MaxiCode structured append	1 ≤ q ≤ 8	1 ≤ q ≤ 8			
^BE		EAN-13 barcode	Sets EAN-13 barcode to the field.	Barcode	^BEo,h,i,a	o: EAN-13 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BE	Low
						h: EAN-13 barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for EAN-13	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of EAN-13 barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
^BF		Micro PDF417	Sets the Micro PDF417 symbol to the field.	Barcode	^BFo,h,m	o: Micro PDF417 field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BF	Low
						h: Micro PDF417 symbol height [dot]	1 ≤ h ≤ 9999	1 ≤ h ≤ 9999			
						m: Micro PDF417 mode	0 ≤ m ≤ 33	0 ≤ m ≤ 33			

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								Definition range	Factory-set initial value		
^BK		Codabar barcode	Sets Codabar barcode to the field.	Barcode	^BKo,c,h,i,a,b,e	o: Codabar field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BK	Low
						c: Printing of a Codabar check digit	c = N (Fixed) N: No	c = N (Fixed) N: No			
						h: Codabar barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for Codabar	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of Codabar barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
						b: Codabar start character	b = A/B/C/D/T/N/E/*	b = A/B/C/D/T/N/E/*			
						e: Codabar stop character	e = A/B/C/D/T/N/E/*	e = A/B/C/D/T/N/E/*			
^BO		Aztec Code	Sets the Aztec Code symbol to the field.	Barcode	^BOo,m,e,t,i,n,id	o: Aztec Code field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BO	Low
						m: Aztec Code module size	1 ≤ m ≤ 99	1 ≤ m ≤ 20			
						e: Aztec Code extended channel interpretation (ECI) enabled/disabled	e = Y/N Y: Enabled N: Disabled	e = N N: Disabled			
						t: Aztec Code mode type and data layer count	t = 0 01 ≤ t ≤ 99 101 ≤ t ≤ 104 201 ≤ t ≤ 232 t = 300	t = 0 01 ≤ t ≤ 99 101 ≤ t ≤ 104 204 ≤ t ≤ 232			
						i: Aztec Code leader initialization symbol	i = Y/N Y: Yes N: No	i = N N: No			
						n: Number of symbols for structured append with Aztec Code	1 ≤ n ≤ 26	1 ≤ n ≤ 26			
						id: Aztec Code message ID	ASCII code within 24 characters	ASCII code within 24 characters			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^BQ		QR Code	Sets the QR Code symbol to the field.	Barcode	^BQo,m,s	o: QR Code field orientation	o = N (Fixed) N: Normal	o = N (Fixed) N: Normal		^BQ	Low
						m: QR Code model	m = 1/2 1: Model 1 2: Model 2	m = 1/2 1: Model 1 2: Model 2			
						s: QR Code module size	1 ≤ s ≤ 99	1 ≤ s ≤ 20			
^BR		GS1 DataBar	Sets the GS1 DataBar, the UPC, or the EAN barcode, or Composite symbol to the field.	Barcode	^BRo,t,m,s,h,n	o: GS1 DataBar field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BR	Low
						t: GS1 DataBar symbol type	1 ≤ t ≤ 12 1: GS1 DataBar Standard 2: GS1 DataBar Truncated 3: GS1 DataBar Stacked 4: GS1 DataBar Stacked Omnidirectional 5: GS1 DataBar Limited 6: GS1 DataBar Expanded 7: UPC-A 8: UPC-E 9: EAN-13 10: EAN-8 11: UCC/EAN-128 and CC-A/CC-B 12: UCC/EAN-128 and CC-C	1 ≤ t ≤ 12 1: GS1 DataBar Standard 2: GS1 DataBar Truncated 3: GS1 DataBar Stacked 4: GS1 DataBar Stacked Omnidirectional 5: GS1 DataBar Limited 6: GS1 DataBar Expanded 7: UPC-A 8: UPC-E 9: EAN-13 10: EAN-8 11: UCC/EAN-128 and CC-A/CC-B 12: UCC/EAN-128 and CC-C			
						m: GS1 DataBar module size	1 ≤ m ≤ 99	1 ≤ m ≤ 20			
						s: GS1 DataBar separator section height	1 ≤ s ≤ 2	1 ≤ s ≤ 2			
						h: UCC/EAN-128 and CC-A/CC-B/CC-C barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						n: Number of segments per line in GS1 DataBarExpanded	2 ≤ n ≤ 22, even numbers only	2 ≤ n ≤ 22, even numbers only			
^BU		UPC-A barcode	Sets the UPC-A barcode to the current field.	Barcode	^BUo,h,i,a,c	o: UPC-A field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BU	Low
						h: UPC-A barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						i: Set/cancel of HRI character addition for UPC-A	i = Y/N Y: Set N: Cancel	i = Y/N Y: Set N: Cancel			
						a: Set/cancel of HRI character addition for top of UPC-A barcode	a = Y/N Y: Set N: Cancel	a = Y/N Y: Set N: Cancel			
						c: Set/cancel check digit printing for UPC-A	c = Y/N Y: Set N: Cancel	c = Y/N Y: Set N: Cancel			

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								Definition range	Factory-set initial value		
^BX		Data Matrix	Sets the Data Matrix symbol to the field.	Barcode	^BXo,s,e,c,r,d,i,f	o: Data Matrix field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^BX	Low
						s: Data Matrix module size [dot]	1 ≤ s ≤ 32000	1 ≤ s ≤ 9600			
						e: Data Matrix error correction level	e = 0/50/80/100/140/200 0: ECC000 50: ECC050 80: ECC080 100: ECC100 140: ECC140 200: ECC200	e = 200 200: ECC200			
						c: Data Matrix column count	9 ≤ c ≤ 49 If e = 200, then 10 ≤ c ≤ 144	square (f = 1): c = 10/12/14/16/18/20 /22/24/26/32/36/40 /44/48/52/64/72/80/88 /96/104/120/132/144 rectangular (f = 2): r = 8: c = 18/32 r = 12: c = 26/36 r = 16: c = 36/48			
						r: Data Matrix line count	9 ≤ r ≤ 49 If e = 200, then 10 ≤ r ≤ 144	square (f = 1): r = 10/12/14/16/18/20 /22/24/26/32/36/40/ 44/48/52/64/72/80/88 /96/104/120/132/144 rectangular (f = 2): r = 8/12/16			
						d: Data Matrix data type	d = 1/2/3/4/5/6 1: Numerals and blank characters 2: Capital letters of the alphabet (A to Z) and blank characters 3: Numerals, capital letters of the alphabet (A to Z), blank characters, periods <.>, commas <,>, dashes <->, and slashes </>. 4: Numerals, capital letters of the alphabet (A to Z), and blank characters 5: ASCII code (00H to 7EH) 6: ASCII code (00H to FFH)	d = 1/2/3/4/5/6 1: Numerals and blank characters 2: Capital letters of the alphabet (A to Z) and blank characters 3: Numerals, capital letters of the alphabet (A to Z), blank characters, periods <.>, commas <,>, dashes <->, and slashes </>. 4: Numerals, capital letters of the alphabet (A to Z), and blank characters 5: ASCII code (00H to 7EH) 6: ASCII code (00H to FFH)			
						i: Data Matrix ECC200 escape sequence identifier	Any ASCII single character	Any ASCII single character			
						f:Data Matrix ECC200 symbol shape	f = 1/2 1: Square 2: Rectangle	f = 1/2 1: Square 2: Rectangle			
^BY		Set barcode parameters default values	Sets the default values for parameters used in barcodes.	Barcode	^BYx,n,h	x: Module width [dot]	1 ≤ x ≤ 9999	1 ≤ x ≤ 85		^BY	Low
						n: Bar width ratio	2.0 ≤ n ≤ 3.0	2.0 ≤ n ≤ 3.0			
						h: Barcode height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			

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								Definition range	Factory-set initial value		
^C(D		Delete image of drawing canvas saved temporarily	The ^C(D command deletes the image of drawing canvas of format which was temporarily saved by using ^C(S command.	Graphic	^C(D	None	None	None			Low
^C(L		Load temporary saved image of drawing canvas	The ^C(L command loads the image of drawing canvas of format which was temporarily saved by using ^C(S command, and puts the image onto the current format.	Graphic	^C(L	None	None	None			Low
^C(S		Save image of drawing canvas temporarily	The ^C(S command temporarily saves the image of drawing canvas of current format.	Graphic	^C(Sa	a: Print image after saving	a = Y/N Y = Set N = Cancel	a = Y/N Y = Set N = Cancel			Low
^CC		Set prefix character for format command	Sets the prefix character which indicates the format command.	Miscellaneous	^CCp	p: Prefix character for format command	One ASCII code character excluding <C>, <D>, and <T>	One ASCII code character excluding <C>, <D>, and <T>		^CC	High
~CC		Set prefix character for format command	Sets the prefix character which indicates the format command.	Miscellaneous	~CCp	p: Prefix character for format command	One ASCII code character excluding <C>, <D>, and <T>	One ASCII code character excluding <C>, <D>, and <T>		~CC	High
^CD		Set command parameter delimiter	Sets the character which indicates a break between command parameters.	Miscellaneous	^CDs	s: Parameter separator character	One ASCII code character excluding <C>, <D>, and <T>	One ASCII code character excluding <C>, <D>, and <T>		^CD	High
~CD		Set command parameter delimiter	Sets the character which indicates a break between command parameters.	Miscellaneous	~CDs	s: Parameter separator character	One ASCII code character excluding <C>, <D>, and <T>	One ASCII code character excluding <C>, <D>, and <T>		~CD	High
^CF		Default font specification	Specifies the default font used to render character strings in the field.	Text	^CFf,h,w	f: Default font identifier	0 ≤ f ≤ 9, Capital letter of the alphabet (A to Z)	0 ≤ f ≤ 9, Capital letter of the alphabet (A to Z)		^CF	Low
						h: Default character height [dot]	0 ≤ h ≤ 9999	0 ≤ h ≤ 9999			
						w: Default character width [dot]	0 ≤ w ≤ 9999	0 ≤ w ≤ 9999			
^CI		Set international font/encoding	Sets the link between the input character code and the rendered characters.	Text	^CIa,s1,d1,s2,d2,…	a: Character code set	<International character set> 0 ≤ a ≤ 12 <Code page> a = 13/27/31/33/34/35/36 <Encode> a = 14/15/16/17/24/26/28/29/30	0 ≤ a ≤ 12 a = 13/14/15/16/ 17/24/26/27/28/ 31/33/34/35		^CI	Low
						s1: Source 1 (character output image)	0 ≤ s1 ≤ 255	0 ≤ s1 ≤ 255			
						d1: Destination 1 (character input image)	0 ≤ d1 ≤ 255	0 ≤ d1 ≤ 255			
						...					

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^CM		Set drive character allocation	Sets the allotment of drive character for accessing memory devices.	Miscellaneous	^CMb,e,r,a,m	b: Memory device to allot drive character B to	b ,e ,r ,a = B/E/R/A B: Optional memory device E: Internal non-volatile memory device R: Internal volatile memory device A: Optional memory device	b = E/R E: Internal non-volatile memory device R: Internal volatile memory device		^CM	Low
						e: Memory device to allot drive character E to	b ,e ,r ,a = B/E/R/A	e = E/R			
						r: Memory device to allot drive character R to	b ,e ,r ,a = B/E/R/A	r = E/R			
						a: Memory device to allot drive character A to	b ,e ,r ,a = B/E/R/A	a = E/R			
						m: Enable/disable multiple drive allotment	m = M/No character input M: Enable multiple drive allotment No character input: Disabled	m = M/No character input M: Enable multiple drive allotment No character input: Disabled			
^CT		Set prefix character for control commands	Sets the prefix character which indicates the control command.	Miscellaneous	^CTp	p: Prefix character for control commands	One ASCII code character excluding <C>, <D>, and <T>	One ASCII code character excluding <C>, <D>, and <T>		^CT	High
~CT		Set prefix character for control commands	Sets the prefix character which indicates the control command.	Miscellaneous	~CTp	p: Prefix character for control commands	One ASCII code character excluding <C>, <D>, and <T>	One ASCII code character excluding <C>, <D>, and <T>		~CT	High
^CV		Barcode validation	Enables/disables the barcode validation.	Barcode	^CVe	e: Enabled/disable barcode validation	e = Y/N Y: Enabled N: Disabled	e = Y/N Y: Enabled N: Disabled		^CV	Low
^CW		Set font identifier allocation	Allots a font identifier to the font file saved to the printer.	Text	^CWf,d:o.x	f: Font identifier alloted to the font file	0 ≤ f ≤ 9, Capital letter of the alphabet (A to Z)	0 ≤ f ≤ 9, Capital letter of the alphabet (A to Z)		^CW	Low
						d: Drive where the font file is stored	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory			
						o: Font file name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = FNT/TTF/TTE/DAT	x = FNT/TTF/TTE/DAT			
~DE		Download a character code conversion table	Downloads the character code conversion table to the printer.	Text	~DEd:o.x,s,data	d: Storage memory device	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		~DE	Low
						o: Character code conversion table file name	ASCII code within 8 characters (20H to 7EH)	ASCII code within 8 characters (20H to 7EH)			
						x: Extension	x = CNV	x = CNV			
						s: Data size (bytes) of the character code conversion table	Numerical value The maximum size depends on the model.	Numerical value The maximum size depends on the model.			
						data: Character code conversion table data	Binary data in CNV format	Binary data in CNV format			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^DF		Save label format	Saves the commands in the label format to the label format file.	Format	^DFd:o.x	d: Drive for storing the label format file	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^DF	Low
						o: Label format file name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = FMT (Fixed)	x = FMT (Fixed)			
~DG		Save graphic	Downloads a monochrome bitmap graphic to the printer.	Graphic	~DGd:o.x,s,w,data	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		~DG	Low
						o: Graphic file name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = GRF (Fixed)	x = GRF (Fixed)			
						s: Graphic data size [byte]	s > 0	s > 0			
						w: Horizontal width [8 dots]	w > 0	w > 0			
						data: Graphic data	Hexadecimal character string	Hexadecimal character string			
~DN		Cancel graphic save	Cancels the graphic data download and restarts normal command analysis.	Graphic	~DN	None	None	None		~DN	High
~DU		Save TrueType fonts	Downloads TrueType fonts to the printer.	Text	~DUd:o.x,s,data	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		~DU	Low
						o: Character code conversion table file name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = FNT	x = FNT			
						s: TrueType font data size [byte]	s > 0	s > 0			
						data: TrueType font data	Hexadecimal character string	Hexadecimal character string			
~DY		Save file	Downloads the graphic or font data to the printer.	Graphic	~DYd:o,f,x,t,w,data	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		~DY	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						f: Data format	f = A/B/P A: ASCII/ZB64 B: Binary P: PNG(ZB64)	f = A/B/P A: ASCII/ZB64 B: Binary P: PNG(ZB64)			
						x: Extension type	x = E/G/P/T/BGD/UCL E: TTE G: GRF P: PNG T: TTF BGD: BGD UCL: UCL	x = E/G/P/T/BGD E: TTE G: GRF P: PNG T: TTF BGD: BGD			
						t: Graphic data size [byte]	t > 0	t > 0			
						w: Data size per line [byte]	w > 0	w > 0			
						data: Data	ASCII or binary (Varies based on Parameter f)	ASCII or binary (Varies based on Parameter f)			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^F(C		Field color settings	Sets the color and opacity for the foreground and for the background of text or graphics.	Format	^F(Cr1,g1,b1,a1,i1,r2,g2,b2,a2,i2	r1: Foreground red component g1: Foreground green component b1: Foreground blue component	0 ≤ r1 ≤ 255 0 ≤ g1 ≤ 255 0 ≤ b1 ≤ 255	0 ≤ r1 ≤ 255 0 ≤ g1 ≤ 255 0 ≤ b1 ≤ 255			Low
						a1: Foreground opacity	0 ≤ a1 ≤ 255	0 ≤ a1 ≤ 255			
						i1: Foreground reversal specified/canceled	i1 = D/N/R D: Specified by "^FR"(field reverse)/ "^LR"(label reverse) N: Reversal canceled R: Reversal specified	i1 = D/N/R D: Specified by "^FR"(field reverse)/ "^LR"(label reverse) N: Reversal canceled R: Reversal specified			
						r2: Background red component g2: Background green component b2: Background blue component	0 ≤ r2 ≤ 255 0 ≤ g2 ≤ 255 0 ≤ b2 ≤ 255	0 ≤ r2 ≤ 255 0 ≤ g2 ≤ 255 0 ≤ b2 ≤ 255			
						a2: Background opacity	0 ≤ a2 ≤ 255	0 ≤ a2 ≤ 255			
						i2: Background reversal specified/canceled	i2 = D/N/R D: Specified by "^FR"(field reverse)/ "^LR"(label reverse) N: Reversal canceled R: Reversal specified	i2 = D/N/R D: Specified by "^FR"(field reverse)/ "^LR"(label reverse) N: Reversal canceled R: Reversal specified			
^FB		Field block	Sets wrap for rendering character strings in the field.	Format	^FBw,l,s,j,h	w: Width of wrap [dot]	0 ≤ w ≤ 9999	0 ≤ w ≤ 9999		^FB	Low
						l: Maximum number of wrapped lines	1 ≤ l ≤ 9999	1 ≤ l ≤ 9999			
						s: Adjustment value for space between lines [dot]	-9999 ≤ s ≤ 9999	-9999 ≤ s ≤ 9999			
						j: Text justification	j = L/C/R/J L: Align left C: Align center R: Align right J: Justified (Final line aligned left)	j = L/C/R/J L: Align left C: Align center R: Align right J: Justified (Final line aligned left)			
						h: Hanging indent [dot]	0 ≤ h ≤ 9999	0 ≤ h ≤ 9999			
^FC		Set clock identifier	Sets the identifier used when calling the date and time of the real-time clock in the field data.	Clock	^FCf,s,t	f: Primary clock identifier	1 character in ASCII code	1 character in ASCII code		^FC	Low
						s: Secondary clock identifier	1 character in ASCII code	1 character in ASCII code			
						t: Tertiary clock identifier	1 character in ASCII code	1 character in ASCII code			
^FD		Field data	Renders the field data to the field.	Format	^FDdata	data: Field data	Up to 3,072 bytes of ASCII code, excluding characters set for the prefix	Up to 3,072 bytes of ASCII code, excluding characters set for the prefix		^FD	Low
^FH		Set hexadecimal identifier	Sets the hexadecimal identifier to the field.	Format	^FHi	i: Hexadecimal identifier	1 character in ASCII code	1 character in ASCII code		^FH	Low

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^FM		Multiple field origin locations in PDF417	Divides a PDF-417 or micro PDF-417 barcode and renders it at each specified coordinate.	Format	^FMx1,y1,x2,y2,…	x1: X coordinate of the 1st symbol [dot]	0 ≤ x1 ≤ 32000, x1 = e e: Remove from rendering target	0 ≤ x1 ≤ 32000, x1 = e e: Remove from rendering target		^FM	Low
						y1: Y coordinate of the 1st symbol [dot]	0 ≤ y1 ≤ 32000, y1 = e e: Remove from rendering target	0 ≤ y1 ≤ 32000, y1 = e e: Remove from rendering target			
						x2: X coordinate of the 2nd symbol [dot]	0 ≤ x2 ≤ 32000, x2 = e e: Remove from rendering target	0 ≤ x2 ≤ 32000, x2 = e e: Remove from rendering target			
						y2: Y coordinate of the 2nd symbol [dot]	0 ≤ y2 ≤ 32000, y2 = e e: Remove from rendering target	0 ≤ y2 ≤ 32000, y2 = e e: Remove from rendering target			
						...	(max 60pairs)	(max 60pairs)			
^FN		Field number	Allots a field number to the field.	Format	^FNn	n: Field number	0 ≤ n ≤ 9999	0 ≤ n ≤ 9999		^FN	Low
^FO		Field origin location	Sets the field origin location relative to the home position.	Format	^FOx,y,j	x: X coordinate of field origin on label [dot]	0 ≤ x ≤ 32000	0 ≤ x ≤ 32000		^FO	Low
						y: Y coordinate of field origin on label [dot]	0 ≤ y ≤ 32000	0 ≤ y ≤ 32000			
						j: Specifies field origin location	j = 0/1/2 0: Left 1: Right 2: Auto	j = 0/1/2 0: Left 1: Right 2: Auto			
^FP		Set field text format	Sets the format for character string rendering in the current field.	Format	^FPd,s	d: Field character string rendering direction	d = H/V/R H: Horizontal (Left-to-right) V: Vertical (Top-to-bottom) R: Horizontal (Right-to-left)	d = H/V/R H: Horizontal (Left-to-right) V: Vertical (Top-to-bottom) R: Horizontal (Right-to-left)		^FP	Low
						s: Added amount of space between characters [dot]	0 ≤ s ≤ 9999	0 ≤ s ≤ 9999			
^FR		Set field reverse print	Sets monochrome reversal for field rendering.	Format	^FR	None	None	None		^FR	Low
^FS		Field separator	Ends the field definition.	Format	^FS	None	None	None		^FS	Low
^FT		Field origin location	Sets the field's rendering origin relative to the home position.	Format	^FTx,y,j	x: X coordinate of field rendering origin on label [dot]	0 ≤ x ≤ 32000	0 ≤ x ≤ 32000		^FT	Low
						y: Y coordinate of field rendering origin on label [dot]	0 ≤ y ≤ 32000	0 ≤ y ≤ 32000			
						j: Rendering origin in the field	j = 0/1/2 0: Left 1: Right 2: Auto	j = 0/1/2 0: Left 1: Right 2: Auto			
^FV		Field variable	Renders the field data to the field.	Format	^FVdata	data: Variable field data	Up to 3,072 bytes of ASCII code, excluding characters set for the prefix	Up to 3,072 bytes of ASCII code, excluding characters set for the prefix		^FV	Low

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^FW		Set default field orientation	Sets the default field orientation and origin position.	Format	^FWo,j	o: Default field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^FW	Low
						j: Default field origin location	j = 0/1/2 0: Left 1: Right 2: Auto	j = 0/1/2 0: Left 1: Right 2: Auto			
^FX		Comment	Defines a character string that does not affect label format printing.	Miscellaneous	^FXdata	data: Comment character string	Up to 3,072 bytes of ASCII code, excluding characters set for the prefix	Up to 3,072 bytes of ASCII code, excluding characters set for the prefix		^FX	Low
^GB		Graphic box	Renders a rectangle to the field.	Graphic	^GBw,h,t,c,r	w: Rectangle width [dot]	1 ≤ w ≤ 32000	1 ≤ w ≤ 2551		^GB	Low
						h: Rectangle height [dot]	1 ≤ h ≤ 32000	1 ≤ h ≤ 9600			
						t: Outline thickness [dot]	1 ≤ t ≤ 32000	1 ≤ t ≤ 2551			
						c: Outline color	c = B/W B: Black (Color set if color is set to field) W: White	c = B/W B: Black (Color set if color is set to field) W: White			
						r: Size of corner rounding	0 ≤ r ≤ 8	0 ≤ r ≤ 8			
^GC		Graphic circle	Renders a circle to the field.	Graphic	^GCd,t,c	d: Circle diameter [dot]	3 ≤ d ≤ 32000	3 ≤ d ≤ 2551		^GC	Low
						t: Outline thickness [dot]	2 ≤ t ≤ 32000	2 ≤ t ≤ 2551			
						c: Outline color	c = B/W B: Black (Color set if color is set to field) W: White	c = B/W B: Black (Color set if color is set to field) W: White			
^GD		Graphic diagonal line	Renders a diagonal line to the field.	Graphic	^GDw,h,t,c,d	w: Diagonal line width [dot]	3 ≤ w ≤ 32000	3 ≤ w ≤ 2551		^GD	Low
						h: Diagonal line height [dot]	3 ≤ h ≤ 32000	3 ≤ h ≤ 9600			
						t: Diagonal line thickness [dot]	1 ≤ t ≤ 32000	1 ≤ t ≤ 2551			
						c: Diagonal line color	c = B/W B: Black (Color set if color is set to field) W: White	c = B/W B: Black (Color set if color is set to field) W: White			
						d: Diagonal line orientation	d = R/L/</>/<\> R, </>: Top-right to bottom-left L, <\>: Top-left to bottom-right	d = R/L/</>/<\> R, </>: Top-right to bottom-left L, <\>: Top-left to bottom-right			
^GE		Graphic ellipse	Renders an ellipse to the field.	Graphic	^GEw,h,t,c	w: Ellipse width [dot]	3 ≤ w ≤ 32000	3 ≤ w ≤ 2551		^GE	Low
						h: Ellipse height [dot]	3 ≤ h ≤ 32000	3 ≤ h ≤ 9600			
						t: Outline thickness [dot]	2 ≤ t ≤ 32000	2 ≤ t ≤ 2551			
						c: Outline color	c = B/W B: Black (Color set if color is set to field) W: White	c = B/W B: Black (Color set if color is set to field) W: White			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^GF		Bitmap graphic	Renders the black and white bitmap graphic to the field.	Graphic	^GFf,t,s,w,data	f: Data format	f = A/B/C A: Hexadecimal character string B: Binary C: Compressed binary	f = A/B/C A: Hexadecimal character string B: Binary C: Compressed binary		^GF	Low
						t: Graphic data size [byte]	0 ≤ t ≤ 9999999	0 ≤ t ≤ 3062400			
						s: Graphic size [byte]	0 ≤ s ≤ 9999999	0 ≤ s ≤ 3062400			
						w: Horizontal width (Number of horizontal dots, divided by 8. Fractions are cut off.)	0 ≤ w ≤ 9999999	0 ≤ w ≤ 3062400			
						data: Graphic data	Hexadecimal character string or binary (Specified in Parameter f)	Hexadecimal character string or binary (Specified in Parameter f)			
^GS		Special font	Sets a symbol mark to the field.	Graphic	^GSo,h,w	o: Field orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^GS	Low
						h: Character height [dot]	0 ≤ h ≤ 32000	0 ≤ h ≤ 9999			
						w: Character width [dot]	0 ≤ w ≤ 32000	0 ≤ w ≤ 9999			
~H(C	BB	Send barcode information	Sends information related to barcode size.	Barcode	~H(CBB,b	b=M: Default value of magnification	None	None			High
~H(C	BW	Send bar width correction value	Sends the bar width correction value applied when printing barcodes.	Barcode	~H(CBW,b	b=C: Bar width correction value [dot]	None	None			High
~H(C	CA	Send an alias for the drive	Sends an alias for the drive.	Miscellaneous	~H(CCA,b	b=A: Alias for the drive A	None	None			High
						b=B: Alias for the drive B	None	None			
						b=E: Alias for the drive E	None	None			
						b=R: Alias for the drive R	None	None			
~H(C	FE	Send valid character code conversion table	Sends the file name of the character code conversion table file that links the designated character code with the character code that makes up the font.	Text	~H(CFE,b	b=T: File name of the valid character code conversion table	None	None			High
~H(C	LB	Send background image setting file name	Sends the setting file name which specify the image file for the background image loaded in the overlay function.	Graphic	~H(CLB,b	b=I: Background image setting file	None	None			High
						b=X: Background image X position [dot]	None	None			
						b=Y: Background image Y position [dot]	None	None			
~H(C	LE	Send paper edge adjustment	Sends the adjustment value for paper edge (left edge or leading edge) position. Sends the adjustment value for the black mark position for the leading edge of the label.	Media configuration	~H(CLE,b	b=L: Logical label left edge position adjustment [dot]	None	None			High
						b=M: Physical label left edge position adjustment [dot]	None	None			
						b=T: Physical label leading edge position adjustment [dot]	None	None			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
~H(C	LM	Send media type	Sends media type (label edge detection, media form, media source, media shape, or media coating type).	Media configuration	~H(CLM,b	b=D: Label edge detection	None	None			High
						b=F: Media form	None	None			
						b=P: Media source	None	None			
						b=S: Media shape	None	None			
						b=T: Media coating type	None	None			
~H(C	LP	Send paper feeding adjustment	Sends paper feed amount, or cut position adjustment.	Media configuration	~H(CLP,b	b=O: Cut position adjustment [dot]	None	None			High
						b=T: Continuous paper leading edge adjustment [dot]	None	None			
~H(C	LR	Send resolution settings	Sends resolution settings (printing, rendering, or rendering of background image loaded with the overlay function).	Printer setting	~H(CLR,b	b=B: Background image rendering resolution [dpi]	None	None			High
						b=M: Print resolution magnification	None	None			
						b=P: Print resolution [dpi]	None	None			
						b=R: Format base in dots per inch [dpi]	None	None			
						b=Z: Print resolution of replaced printer [dpi]	None	None			
~H(C	LS	Send media setting	Sends media layout (gap between labels, left gap, label length, or label width).	Media configuration	~H(CLS,b	b=C: Gap between labels [dot]	None	None			High
						b=G: Left gap [dot]	None	None			
						b=L: Label length [dot]	None	None			
						b=P: Label width [dot]	None	None			
~H(C	LV	Send media size error	Sends setting value for media size error detection.	Media configuration	~H(CLV,b	b=H: Media size error (width) detection	None	None			High
						b= V: Media size error (length) detection	None	None			
~H(C	MF	Send feed operation	Sends the setting of the media feed sequence when the power is turned on and the media is changed, or the setting of the media suction strength.	Printer setting	~H(CMF,b	b=H: Operation at change media	None	None			High
						b=M: Manual paper suction strength	None	None			
						b=P: Operation at power on	None	None			
						b=S: Paper suction strength	None	None			
~H(C	MN	Send nozzle clogging recovery enabled/disabled	Sends whether the automatic nozzle clogging recovery function is enabled/disabled.	Printer setting	~H(CMN,b	b=S: Enable/disable nozzle clogging recovery	None	None			High
~H(C	MP	Send print operation mode settings	Sends print operation settings (print operation mode, basic printer unit system, or printing direction).	Printer setting	~H(CMP,b	b=M: Print operation mode	None	None			High
						b=U: Basic printer unit system	None	None			
						b=D: Printing direction	None	None			
~H(C	MS	Send printing control adjustment amount	Sends setting value for printing control adjustment amount.	Printer setting	~H(CMS,b	b=C: Wait time adjustment for closing caps [sec]	None	None			High
						b=H: Drying time per head pass [sec]	None	None			
~H(C	MT	Send auto cleaning on designated time setting	Sends settings for auto cleaning on designated time (auto cleaning on designated time or time to start auto cleaning).	Printer setting	~H(CMT,b	b=T: Time to start auto cleaning	None	None			High

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
~H(C	MV	Send nozzle self-test setting	Sends nozzle self-test operation settings (cleaning after self-test, permitted clogged nozzle number, self-test interval in printing (number of labels), operation at clogged nozzle detection, or enable/disable nozzle self-test).	Printer setting	~H(CMV,b	b=A: Cleaning after self-test	None	None			High
						b=C: Permitted clogged nozzle number	None	None			
						b=I: Self-test interval in printing (number of labels)	None	None			
						b=O: Operation at clogged nozzle detection	None	None			
						b=S: Enable/disable nozzle self-test	None	None			
~H(C	PC	Send image correction settings	Sends correction settings for image to be printed (saturation, type of color correction, ink profile level correction value, tone (yellow), tone (magenta), tone (cyan), contrast, ratio of black to composite, print quality, or brightness).	Printer setting	~H(CPC,b	b=A: Saturation	None	None			High
						b=C: Type of color correction	None	None			
						b=D: Ink profile level correction value	None	None			
						b=L: Tone (yellow)	None	None			
						b=M: Tone (magenta)	None	None			
						b=N: Tone (cyan)	None	None			
						b=O: Contrast	None	None			
						b=P: Ratio of black to composite	None	None			
						b=Q: Print quality	None	None			
						b=R: Brightness	None	None			
~H(C	UB	Send buzzer setting	Sends the buzzer settings for printing operations, or the volume level.	Printer setting	~H(CUB,b	b=E: Enable/disable buzzer sound after error	None	None			High
						b=F: Enable/disable continuous buzzer sound after error	None	None			
						b=S: Buzzer timing	None	None			
						b=Z: Buzzer volume	None	None			
~H(C	UI	Send enable/disable buttons	Sends enable/disable buttons.	Control panel	~H(CUI,b	b=B: Enable/disable cancel button	None	None			High
						b=C: Enable/disable cut button	None	None			
						b=F: Enable/disable feed button	None	None			
						b=P: Enable/disable pause button	None	None			
~H(C	UL	Send panel settings	Sends panel language	Control panel	~H(CUL,b	b=L: Panel language	None	None			High
~H(C	WR	Send error reprinting setting	Sends the setting for the function to reprint label printing that was stopped due to an error mid-printing.	Configuration	~H(CWR,b	b=P: Set/cancel error reprinting function	None	None			High
^H(E		Echo back	The character string specified by a parameter is returned.	Status	^H(Ea	a: Echo character string	0- to 18-character ASCII string	0- to 18-character ASCII string			Low
~H(I	MF	Send firmware version	Sends the firmware version or font version.	Status	~H(IMF,b	b=V: Firmware version	None	None			High
~H(I	MM	Send model information	Sends the model information.	Status	~H(IMM,b	b=I: Ink model	None	None			High
~H(I	MP	Send printer individual information	Sends the printer individual information.	Status	~H(IMP,b	b=S: Serial number	None	None			High

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
~H(Q	IQ	Send remaining ink	Sends the remaining ink for all colors in the printer.	Status	~H(QIQ	None	None	None			High
~H(Q	MN	Send available capacity in maintenance box	Sends the available capacity in the maintenance box.	Status	~H(QMN	None	None	None			High
~H(Q	WN	Send warnings	Sends all types of warnings that occurred at the point in time when the printer received the command.	Status	~H(QWN	None	None	None			High
~H(S	CM	Send maintenance counter	Sends maintenance counter value to the host.	Status	~H(SCM,b	b=C : Auto cutter counter	None	None			High
						b=O : Operating time (hour)	None	None			
~H(S	CN	Send non-resettable counter	Sends non-resettable counter value to the host.	Status	~H(SCN,b	b=C: Non-resettable counter (centimeter)	None	None			High
						b=I: Non-resettable counter (inch)	None	None			
						b=L: Non-resettable counter (printed label number)	None	None			
~H(S	DS	Send available capacity in the drive	Sends the available capacity in the drive accessible by the user.	Status	~H(SDS,b	b=A: Available capacity in drive A	None	None			High
						b=B: Available capacity in drive B	None	None			
						b=E: Available capacity in drive E	None	None			
						b=R: Available capacity in drive R	None	None			
~H(S	EA	Send error status	Sends the error status (error name).	Status	~H(SEA,b	b=E: Error status	None	None			High
						b=F: Fatal error status	None	None			
~H(S	LS	Send media detection	Sends the size of the media detected by the printer.	Media configuration	~H(SLS,b	b=H: Media width	None	None			High
						b=V: Media length	None	None			
~H(S	MA	Send printer operation status	Sends the printer operation status.	Status	~H(SMA,b	b=S: Printer operation status	None	None			High
~H(S	PA	Send print stopping status	Sends the status in which factors that stop printing occurred.	Status	~H(SPA,b	b=C: Cover open status	None	None			High
						b=O: Panel operation waiting status	None	None			
						b=P: Paper out status	None	None			
						b=S: Pause status	None	None			
~H(S	PB	Send buffer full status	Sends the buffer full status.	Status	~H(SPB,b	b=F: Buffer full status	None	None			High
^HF		Transmit label format file	Transmits the label format file data to the host.	Format	^HFd: o.x	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^HF	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = FMT (Fixed)	x = FMT (Fixed)			

Command List of the Alphabetical Order

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Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^HG		Transmit bitmap file	Transmits the data of the black and white raster graphic file to the host.	Graphic	^HGd: o.x	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^HG	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = GRF (Fixed)	x = GRF (Fixed)			
^HH		Transmit label configuration	Transmits the label configuration to the host.	Status	^HH	None	None	None		^HH	Low
~HI		Transmit identification	Transmits the printer status to the host.	Status	~HI	None	None	None		~HI	High
~HM		Transmit RAM capacity	Transmits the printer's RAM capacity to the host.	Status	~HM	None	None	None		~HM	High
~HS		Transmit printer status	Transmits the printer status to the host.	Status	~HS	None	None	None		~HS	High
^HW		Transmit directory list	Transmits the file information saved on the target drive to the host in list format.	Status	^HWd:o.x.f	d: Target drive	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory		^HW	Low
						o: File name	ASCII code within 8 characters Wild card (Asterisk <*>)	ASCII code within 8 characters Wild card (Asterisk <*>)			
						x: Extension	All extensions Wild card (Asterisk <*>)	All extensions Wild card (Asterisk <*>)			
						f:Format	f = c/d c: Column mode d: Basic mode	f = c/d c: Column mode d: Basic mode			
^HY		Transmit files	Transmits the data of the graphic file to the host.	Graphic	^HYd:o.x	d: Storage drive	d=R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d=R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^HY	Low
						o: File name	1- to 8-character ASCII string	1- to 8-character ASCII string			
						x: Extension	ZB64-format transmission: G/P G: GRF P: PNG	ZB64-format transmission: G/P G: GRF P: PNG			
^ID		Delete files	Deletes files stored in the memory device.	Miscellaneous	^IDd:o.x	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^ID	Low
						o: File name	ASCII code within 8 characters Wild card (Asterisk <*>)	ASCII code within 8 characters Wild card (Asterisk <*>)			
						x: Extension	All extensions Wild card (Asterisk <*>)	All extensions Wild card (Asterisk <*>)			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^IL		Draw graphic file	Renders the graphic file to the label format.	Graphic	^ILd:o.x	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^IL	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = GRF/PNG	x = GRF/PNG			
^IM		Draw graphic file with position	Renders the graphic file to the field.	Graphic	^IMd:o.x	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^IM	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = GRF/PNG	x = GRF/PNG			
^IS		Save drawing canvas	Saves the drawing canvas when ending the label format with "^XZ".	Graphic	^ISd:o.x,p	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^IS	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = GRF/PNG	x = GRF/PNG			
						p: Print after saving print image	p =Y /N Y: Print N: Do not print	p =Y /N Y: Print N: Do not print			
~J(C		Execute cleaning	Executes head cleaning.	Printer control	~J(C	None	None	None			High
~J(M	CL	Execute cleaning	Specifies the cleaning type and executes head cleaning.	Printer control	~J(MCL,a	a: Cleaning type	ASCII single character	a = A/H A: Auto H: Power Cleaning			High
~JA		Cancel all formats	Deletes all label formats in the printer.	Printer control	~JA	None	None	None		~JA	High
^JB		Initialize drive	Initializes the target drive.	Miscellaneous	^JBd	d: Target drive	d = E/B/A E: Non-volatile memory B: Optional memory A: Optional memory	d = E E: Non-volatile memory		^JB	Low
~JC		Media calibration	Calibrates the media.	Printer setting	~JC	None	None	None		~JC	High
^JM		Set resolution magnification	Sets the print resolution magnification for the label format.	Printer setting	^JMd	d: Print resolution magnification	d = A/B A: Normal resolution B: Low resolution	d = A/B A: Normal resolution B: Low resolution		^JM	Low
~JP		Pause and cancel format	Deletes the oldest label format among those not finished printing, and transitions to the paused status.	Printer control	~JP	None	None	None		~JP	High
~JR		Soft reset	Resets the printer.	Printer control	~JR	None	None	None		~JR	High

Command List of the Alphabetical Order

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Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^JU		Update non-volatile configuration	Initializes or saves to non-volatile memory the printer configuration.	Printer setting	^JUf	f: Save or read out configuration	f = F/N/R/S F: Initialize printer configuration to factory default N: Initialize transmission configuration to factory default R: Initialize printer configuration to latest configuration saved to non-volatile memory S: Save current printer configuration to non-volatile memory	f = F/R/S F: Initialize printer configuration to factory default R: Initialize printer configuration to latest configuration saved to non-volatile memory S: Save current printer configuration to non-volatile memory		^JU	Low
~JX		Cancel label format definition	Deletes label formats still being defined.	Printer control	~JX	None	None	None		~JX	Low
^JZ		Set reprint after error	Enables/disables reprinting for labels where printing was canceled due to an error.	Printer setting	^JZe	e: Enable/disable error reprinting function	e = Y/N Y: Enabled N: Disabled	e = Y/N Y: Enabled N: Disabled		^JZ	Low
^KL		Set panel language	Sets the language used to display the panel information.	Control panel	^KLl	l: Set panel language	1: English 2: Spanish 3: French 4: German 5: Italian 7: Portuguese 11: Dutch 13: Japanese 14: Korean 15: Simplified Chinese 16: Traditional Chinese 17: Russian 18: Polish 100: Greek 101: Turkish	1: English 2: Spanish 3: French 4: German 5: Italian 7: Portuguese 11: Dutch 13: Japanese 14: Korean 15: Simplified Chinese 16: Traditional Chinese 17: Russian 18: Polish 100: Greek 101: Turkish		^KL	Low
^LH		Set label home position	Sets the home position, which is the basis for the print position.	Format	^LHx,y	x: Home position x coordinate [dot]	0 ≤ x ≤ 32000	0 ≤ x ≤ 32000		^LH	Low
						y: Home position y coordinate [dot]	0 ≤ y ≤ 32000	0 ≤ y ≤ 32000			
^LR		Set monochrome reverse print	Sets reversed printing for the whole label.	Format	^LRe	e: Set/cancel label reverse print	e = Y/N Y: Set N: Cancel	e = Y/N Y: Set N: Cancel		^LR	Low
^LS		Shift horizontal position	Sets the amount to adjust the position of the label's left edge.	Media configuration	^LSl	l: Label left edge position adjustment [dot]	-9999 ≤ l ≤ 9999	-2551 ≤ l ≤ 2551		^LS	Low
^LT		Shift vertical position	Sets the amount to adjust the position of the label's leading edge.	Media configuration	^LTd	d: Label leading edge position adjustment [dot]	-9999 ≤ d ≤ 9999	-258 ≤ d ≤ 258		^LT	Low
^MC		Set drawing deletion after print	Sets deletion for the drawing canvas after printing.	Format	^MCe	e: Set/cancel drawing canvas deletion	e = Y/N Y: Set N: Cancel	e = Y/N Y: Set N: Cancel		^MC	Low

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Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^MF		Set recover operation	Sets the operation for when turning the power on and when changing the media.	Printer setting	^MFo,s	o: Power on operation	o = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration	o = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration		^MF	Low
						s: Media change operation	s = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration	s = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration			
^MM		Set print mode	Sets the printer operation for when printing is completed.	Printer setting	^MMm	m: Print mode	m = T/P/R/A/C T: No cutting P: Manual peeling and application R: Rewind A: Automatic peeling and application C: Cutting performed	m = C/P/R/T C: Cutting performed P: Manual peeling and application R: Rewind T: No cutting		^MM	Low
^MN		Set label edge detection	Sets the label edge detection method.	Media configuration	^MNs	s: Label edge detection	s = N/Y/W/M N: Continuous paper (Does not detect label edge) Y, W: Gap detection M: Black mark detection	s = N/Y/W/M N: Continuous paper (Does not detect label edge) Y, W: Gap detection M: Black mark detection		^MN	Low
^MP		Enable/disable button	Enables/disables buttons.	Control panel	^MPo	o: Disabled button	o = W/F/X/M/S/E W: Disable pause button F: Disable feed button X: Disable cancel button M: Disable menu button S: Disable all buttons E: Enable all buttons	o = W/F/X/S/E W: Disable pause button F: Disable feed button X: Disable cancel button S: Disable all buttons E: Enable all buttons		^MP	Low
^MU		Set units of measurement	Sets the unit for specifying the rendering position and size.	Printer setting	^MUu,i,o	u: Basic printer unit system	u = D/I/M D: Dots I: Inches M: Millimeters	u = D/I/M D: Dots I: Inches M: Millimeters		^MU	Low
						i: Rendering resolution [dpi]	i = 150/200/300/600	i = 150/200/300/600			
						o: Print resolution [dpi]	o = 200/300/600	o = 200/300/600 200 [dpi] is to be used only when 200 [dpi] was specified for ^S(CLR,Z: print resolution of replaced printer.			
^P(M	BZ	Execute buzzer	Eexecutes buzzer.	Printer control	^P(MBZ	None	None	None			Low
^P(M	CT	Execute cut	Executes cut.	Printer control	^P(MCT	None	None	None			Low
^PH		Feed to home position	Feeds paper for 1 label.	Printer control	^PH	None	None	None		^PH	Low
~PH		Feed to home position	Feeds paper for 1 label.	Printer control	~PH	None	None	None		~PH	High

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Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^PM		Set mirror image print	Sets/cancels mirror image print.	Format	^PMe	e: Set/cancel mirror image print	e = Y/N Y: Set N: Cancel	e = Y/N Y: Set N: Cancel		^PM	Low
^PO		Set 180° rotation print	Sets 180° rotation print.	Format	^POe	e: Set/cancel 180° rotation printing	e = N/I N: Cancel I: Set	e = N/I N: Cancel I: Set		^PO	Low
^PP		Paused	Transitions the printer to the paused status.	Printer control	^PP	None	None	None		^PP	Low
~PP		Paused	Transitions the printer to the paused status.	Printer control	~PP	None	None	None		~PP	High
^PQ		Set print quantity	Sets the print quantity for the label format.	Printer setting	^PQt,i,c,p	t: Total print quantity	1 ≤ t ≤ 99,999,999	1 ≤ t ≤ 99,999,999		^PQ	Low
						i: Printer interval for pause and cut	0 ≤ i ≤ 99,999,999	0 ≤ i ≤ 99,999,999			
						c: Serialized label print quantity	0 ≤ c ≤ 99,999,999	0 ≤ c ≤ 99,999,999			
						p: Set/cancel pause suppression	p = Y/N Y: Set N: Cancel	p = Y/N Y: Set N: Cancel			
~PS		Cancel pause	Cancels the printer's paused status.	Printer control	~PS	None	None	None		~PS	High
~RO		Reset counters	Resets a counter.	Miscellaneous	~ROc	c: Counter to be reset	c = 1/2 1: Counter 1 2: Counter 2	c = 1/2 1: Counter 1 2: Counter 2		~RO	High
^S(C	BB	Set barcode size	Sets barcode size.	Barcode	^S(CBB,b,c	b=M: Default value of magnification	1 ≤ c ≤ 20	1 ≤ c ≤ 20	None		Low
^S(C	BW	Set barcode bar width correction value	Sets the bar width correction value that is used when printing barcodes.	Barcode	^S(CBW,b,c	b=C: Bar width correction value [dot]	-9999 ≤ c ≤ 9999	-2 ≤ c ≤ 2	0		Low
^S(C	CA	Set an alias for the drive	Sets an alias for the drive.	Miscellaneous	^S(CCA,b,c	b=A: Alias for the drive A	c=A/B/E/R A: Optional memory B: Optional memory E: Non-volatile memory R: Volatile memory	c=E/R E: Non-volatile memory R: Volatile memory	E	^CM	Low
						b=B: Alias for the drive B	c=A/B/E/R	c=E/R	E	^CM	
						b=E: Alias for the drive E	c=A/B/E/R	c=E/R	E	^CM	
						b=R: Alias for the drive R	c=A/B/E/R	c=E/R	R	^CM	
^S(C	FE	Set valid character code conversion table	Sets the character code conversion table file which relate the character code to the font data.	Text	^S(CFE,b,c	b=T: File name of the valid character code conversion table	c=d: o.x d = A/B/E/R/Z o = ASCII code within 8 characters x = BGD/CNV	c=d: o.x d = A/B/E/R/Z o = ASCII code within 8 characters x = BGD/CNV	None		Low

Command List of the Alphabetical Order

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Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^S(C	LB	Set background image setting file	Sets the setting file to specify the image file for the background image loaded in the overlay function.	Graphic	^S(CLB,b,c	b=I: Background image setting file	c=d: o.x d = A/B/E/R/Z o = ASCII code within 8 characters x = BGD/PNG	c=d: o.x d = A/B/E/R/Z o = ASCII code within 8 characters x = BGD/PNG	None		Low
			Sets the background image application position on the [X-axis]			b=X: Background image X position [dot]	0 ≤ c ≤ 32000	0 ≤ c ≤ 32000	0		
			Sets the background image application position on the [Y-axis]			b=Y: Background image Y position [dot]	0 ≤ c ≤ 32000	0 ≤ c ≤ 32000	0		
^S(C	LE	Set paper edge adjustment	Sets the paper edge (left edge or leading edge) position adjustment.	Media configuration	^S(CLE,b,c	b=L: Logical label left edge position adjustment [dot]	-9999 ≤ c ≤ 9999	-2551 ≤ c ≤ 2551	0	^LS	Low
						b=M: Physical label left edge position adjustment [dot]	-9999 ≤ c ≤ 9999	-36 ≤ c ≤ 36	0		
						b=T: Physical label leading edge position adjustment [dot]	-9999 ≤ c ≤ 9999	-258 ≤ c ≤ 258	0	^LT	
^S(C	LM	Select media type	Selects media type (label edge detection, media form, media source, media shape, or media coating type).	Media configuration	^S(CLM,b,c	b=D: Label edge detection	c=M/W/N M: Black mark detection W: Gap detection N: No detection	c=M/W/N M: Black mark detection W: Gap detection N: No detection	W	^MN	Low
						b=F: Media form	c=CP/DL/CL/WB CP: Continuous paper DL: Die-cut label CL: Continuous label WB: Wristband	c=CP/DL/CL/WB CP: Continuous paper DL: Die-cut label CL: Continuous label WB: Wristband	DL		
						b=P: Media source	c = IR/ER IR: Internal roll ER: External feed	c = IR/ER IR: Internal roll ER: External feed	IR		
						b=S: Media shape	c = RP/FP RP: Roll paper FP: Fanfold paper	c = RP/FP RP: Roll paper FP: Fanfold paper	RP		
						b=T: Media coating type	c= P1/P2/P3: Plain Paper M1/ M2 M3: Matte Paper S1/S2/S3: Synthetic G1/G2/G3: Glossy Paper GS1/GS2/GS3: Glossy Film PG1/PG2/PG3: High Glossy Paper T1/T2/T3: Texture Paper WB1/WB2/WB3: Wristband	c= P1: Plain Paper M1: Matte Paper S1: Synthetic G1: Glossy Paper GS1: Glossy Film PG1: High Glossy Paper T1: Texture Paper WB1: Wristband	M1		
^S(C	LP	Set paper feeding adjustment	Sets paper feed amount, or cut position adjustment.	Media configuration	^S(CLP,b,c	b=O: Cut position adjustment [dot]	-255 ≤ c ≤ 255	-255 ≤ c ≤ 255	0	~TA	Low
						b=T: Continuous paper leading edge adjustment [dot]	-9999 ≤ c ≤ 9999	0 ≤ c ≤ 71	0		

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								Definition range	Factory-set initial value		
^S(C	LR	Set resolution	Sets resolution (printing, rendering, or rendering of background image loaded with the overlay function).	Printer setting	^S(CLR,b,c	b=B: Background image rendering resolution [dpi]	c = 200/300/600	c = 200/300/600	600		Low
						b=M: Print resolution magnification	c = A/B A: Normal resolution B: Low resolution	c = A/B A: Normal resolution B: Low resolution	A	^JM	
						b=P: Print resolution [dpi]	c = 200/300/600	c = 200/300/600 200 [dpi] is to be used only when 200 [dpi] was specified for ^S(CLR,Z: print resolution of replaced printer.	600	^MU	
						b=R: Format base in dots per inch [dpi]	c = 150/ 200/300/600	c = 150/ 200/300/600	600	^MU	
						b=Z: Print resolution of replaced printer [dpi]	c = 200/300/600	c = 200/300/600	600		
^S(C	LS	Set media	Sends media layout (gap between labels, left gap, label length, or label width).	Media configuration	^S(CLS,b,c	b=C: Gap between labels [dot]	0 ≤ c ≤ 9999	0 ≤ c ≤ 142	71		Low
						b=G: Left gap [dot]	0 ≤ c ≤ 9999	0 ≤ c ≤ 48	48		
						b=L: Label length [dot]	0 ≤ c ≤ 99999	188 ≤ c ≤ 9600	4129		
						b=P: Label width [dot]	0 ≤ c ≤ 9999	506 ≤ c ≤ 2551	2551		
^S(C	LV	Set media size error	Enables/disables media size error detection.	Media configuration	^S(CLV,b,c	b=H: Media size error (width) detection	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	D		Low
						b= V: Media size error (length) detection	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	D		
^S(C	MF	Set feed operation	Sets the media feed sequence when the power is turned on and the media is changed, or the media suction strength.	Printer setting	^S(CMF,b,c	b=H: Operation at change media	c = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration	c = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration	F	^MF	Low
						b=M: Manual paper suction strength	1 ≤ c ≤ 10	1 ≤ c ≤ 10	10		
						b=P: Operation at power on	c = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration	c = C/F/L/N/S C: Calibration F: Feed L: Measure media length N: No feed S: Short calibration	N	^MF	
						b=S: Paper suction strength	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	D		
^S(C	MN	Enable/disable nozzle clogging recovery function	Sets whether the automatic nozzle clogging recovery function is enabled/disabled.	Printer setting	^S(CMN,b,c	b=S: Enable/disable nozzle clogging recovery	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E		Low

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^S(C	MP	Set print operation mode	Sets print operations (print operation mode, basic printer unit system, or printing direction).	Printer setting	^S(CMP,b,c	b=M: Print operation mode	c=T/P/R/A/C/D/F/L/U/K T: No cutting P: Manual peeling and application R: Rewind A: Automatic peeling and application C: Cutting performed D/F/L/U/K: Reserved	c=C/P/R/T C: Cutting performed P: Manual peeling and application R: Rewind T: No cutting	T	^MM	Low
						b=U: Basic printer unit system	c = D/I/M D: Dots I: Inches M: Millimeters	c = D/I/M D: Dots I: Inches M: Millimeters	D	^MU	
						b=D: Printing direction	c = B/U B: Bidirectional or Unidirectional U: Unidirectional	c = B/U B: Bidirectional or Unidirectional U: Unidirectional	B		
^S(C	MS	Set printing control adjustment amount	Sets printing control adjustment amount.	Printer setting	^S(CMS,b,c	b=C: Wait time adjustment for closing caps [sec]	0.0 ≤ c ≤ 60.0	1.0 ≤ c ≤ 15.0	3.0		Low
						b=H: Drying time per head pass [sec]	0.0 ≤ c ≤ 60.0	0.0 ≤ c ≤ 5.0	0		
^S(C	MT	Set auto cleaning on designated time	Sets auto cleaning on designated time (auto cleaning on designated time or time to start auto cleaning).	Printer setting	^S(CMT,b,c	b=T: Time to start auto cleaning	hh:mm hh & mm are number within two digits hh = 00 to 23 mm = 00 to 59	hh:mm hh & mm are number within two digits hh = 00 to 23 mm = 00 to 59 If a time within 10 minutes of the current time is specified, cleaning is performed starting at the given time 24 hours later.	00:00		Low
^S(C	MV	Set nozzle self-test operation	Sets nozzle self-test operations (cleaning after self-test, permitted clogged nozzle number, self-test interval in printing (number of labels), operation at clogged nozzle detection, or enable/disable nozzle self-test).	Printer setting	^S(CMV,b,c	b=A: Cleaning after self-test	c = N/E N: None E: Automatic execution	c = N/E N: None E: Automatic execution	E		Low
						b=C: Permitted clogged nozzle	0 ≤ c ≤ 9999	0 ≤ c ≤ 16	2		
						b=I: Self-test interval in printing (number of labels)	0 ≤ c ≤ 99999999 0: Job separator only	1 ≤ c ≤ 9999	100		
						b=O: Operation at clogged nozzle detection	c = C/N C: Continue printing N: Notify	c = C/N C: Continue printing N: Notify	C		
						b=S: Enable/disable nozzle self-test	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E		

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^S(C	PC	Set image correction	Sets correction for image to be printed (saturation, type of color correction, ink profile level correction value, tone (yellow), tone (magenta), tone (cyan), contrast, ratio of black to composite, print quality, or brightness).	Printer setting	^S(CPC,b,c	b=A: Saturation	-99 ≤ c ≤ 99	-25 ≤ c ≤ 25	0		Low
						b=C: Type of color correction	c = ASCII single character	c = D/N/V D: None N: Epson preferred color V: Epson vivid color	V		
						b=D: Ink profile level correction value	-9999 ≤ c ≤ 9999	-6 ≤ c ≤ 4	0		
						b=L: Tone (yellow)	-99 ≤ c ≤ 99	-25 ≤ c ≤ 25	0		
						b=M: Tone (magenta)	-99 ≤ c ≤ 99	-25 ≤ c ≤ 25	0		
						b=N: Tone (cyan)	-99 ≤ c ≤ 99	-25 ≤ c ≤ 25	0		
						b=O: Contrast	-99 ≤ c ≤ 99	-25 ≤ c ≤ 25	0		
						b=P: Ratio of black to composite	-9999 ≤ c ≤ 9999	-6 ≤ c ≤ 0	0		
						b=Q: Print quality	ASCII single character	c = D/S/N/Q/M D: Max Speed S: Speed N: Normal Q: Quality M: Max Quality	Depends on the media coating type		
						b=R: Brightness	-99 ≤ c ≤ 99	-25 ≤ c ≤ 25	0		
^S(C	UB	Set buzzer	Sets the buzzer settings for printing operations, as well as the volume level.	Printer setting	^S(CUB,b,c	b=E: Enable/disable buzzer sound after error	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E		Low
						b=F: Enable/disable continuous buzzer sound after error	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	D		
						b=S: Buzzer timing	c = N/E/L N: None E: Each label L: Last label	c = N/E/L N: None E: Each label L: Last label	None		
						b=Z : Buzzer volume	c = N/S/M/L/X N: OFF S: Soft M: Medium L: Loud X: Max	c = N/S/M/L/X N: OFF S: Soft M: Medium L: Loud X: Max	X		
^S(C	UI	Enable/disable button	Enables/disables buttons.	Control panel	^S(CUI,b,c	b=B: Enable/disable cancel button	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E	^MP	Low
						b=C: Enable/disable cut button	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E		
						b=F: Enable/disable feed button	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E	^MP	
						b=P: Enable/disable pause button	c = E/D E: Enabled D: Disabled	c = E/D E: Enabled D: Disabled	E	^MP	

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^S(C	UL	Set panel	Sets panel language	Control panel	^S(CUL,b,c	b=L: Panel language	c = 1: English 2: Spanish 3: French 4: German 5: Italian 7: Portuguese 11: Dutch 13: Japanese 14: Korean 15: Simplified Chinese 16: Traditional Chinese 17: Russian 18: Polish 100: Greek 101: Turkish	c = 1: English 2: Spanish 3: French 4: German 5: Italian 7: Portuguese 11: Dutch 13: Japanese 14: Korean 15: Simplified Chinese 16: Traditional Chinese 17: Russian 18: Polish 100: Greek 101: Turkish	Depends on the destination	^KL	Low
^S(C	WR	Set/cancel error reprinting function	Sets whether to set the function to reprint label printing that was stopped due to an error mid-printing.	Configuration	^S(CWR,b,c	b=P: Set/cancel error reprinting function	c = Y/N Y: Set N: Cancel	c = Y/N Y: Set N: Cancel	Y	^JZ	Low
^SE		Select character code conversion table	Sets a valid character code conversion table.	Text	^SEd:o.x	d: Storage drive	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory		^SE	Low
						o: Character code conversion table file name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = CNV (Fixed)	x = CNV (Fixed)			
^SF		Serialization field	Sets the serialization field.	Format	^SFt,i	t: Character string for serialization	t = Character string comprised of D/H/O/A/N/% D: Decimal H: Hexadecimal O: Octal A: Letters of the alphabet N: Alphanumeric %: Character to be ignored	t = Character string comprised of D/H/O/A/N/% D: Decimal H: Hexadecimal O: Octal A: Letters of the alphabet N: Alphanumeric %: Character to be ignored		^SF	Low
						i: Increment	Numerals or letters of the alphabet	Numerals or letters of the alphabet			

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^SL		Set date and time print	Sets the language for the date and time and the timing to use for the date and time to be rendered to the label.	Clock	^SLt,l	t: Timing to be set to date and time	t = S S: When the label format starts	t = S S: When the label format starts		^SL	Low
						l: Language to print date and time in	1 ≤ l ≤ 18 1 = English 2 = Spanish 3 = French 4 = German 5 = Italian 6 = Norwegian 7 = Portuguese 8 = Swedish 9 = Danish 10 = Spanish 2 11 = Dutch 12 = Finnish 13 = Japanese 14 = Korean 15 = Simplified Chinese 16 = Traditional Chinese 17 = Russian 18 = Polish	1 ≤ l ≤ 18 1 = English 2 = Spanish 3 = French 4 = German 5 = Italian 6 = Norwegian 7 = Portuguese 8 = Swedish 9 = Danish 10 = Spanish 2 11 = Dutch 12 = Finnish 13 = Japanese 14 = Korean 15 = Simplified Chinese 16 = Traditional Chinese 17 = Russian 18 = Polish		
^SN		Serialization data	Renders the serialization data to the current field.	Format	^SNi,d,z	i: Initial value	Numerals and letters of the alphabet	Numerals and letters of the alphabet		^SN	Low
						d:Increment or decrement	Numerals and minus symbols <-> within 12 digits	Numerals and minus symbols <-> within 12 digits			
						z: Zero < 0 > padding	z = Y/N Y: Yes (Does not delete zeros) N: No (Deletes zeros)	z = Y/N Y: Yes (Does not delete zeros) N: No (Deletes zeros)			
^SO		Set date and time offset	Sets the date and time for the secondary or tertiary clock. In this case, set the date and time using the difference from the primary clock.	Clock	^SOt,mo,d,y,h,mi,s	t: Clock set	t = 2/3 2: Secondary clock 3: Tertiary clock	t = 2/3 2: Secondary clock 3: Tertiary clock		^SO	Low
						mo: Month (offset amount)	-32000 ≤ mo ≤ 32000	-32000 ≤ mo ≤ 32000			
						d: Day (offset amount)	-32000 ≤ d ≤ 32000	-32000 ≤ d ≤ 32000			
						y: Year (offset amount)	-32000 ≤ y ≤ 32000	-32000 ≤ y ≤ 32000			
						h: Hour (offset amount)	-32000 ≤ h ≤ 32000	-32000 ≤ h ≤ 32000			
						mi: Minute (offset amount)	-32000 ≤ mi ≤ 32000	-32000 ≤ mi ≤ 32000			
						s: Second (offset amount)	-32000 ≤ s ≤ 32000	-32000 ≤ s ≤ 32000			
^ST		Set date and time	Sets the date and time for the primary clock.	Clock	^STmo,d,y,h,mi,s,f	mo: Month	01 ≤ mo ≤ 12	01 ≤ mo ≤ 12		^ST	Low
						d: Day	01 ≤ d ≤ 31	01 ≤ d ≤ 31			
						y: Year	2000 ≤ y ≤ 2099	2000 ≤ y ≤ 2099			
						h: Hour	00 ≤ h ≤ 23	00 ≤ h ≤ 23			
						mi: Minute	00 ≤ mi ≤ 59	00 ≤ mi ≤ 59			
						s: Second	00 ≤ s ≤ 59	00 ≤ s ≤ 59			
						f: Time format	f = A/P/M A: AM P: PM M: 24-hour clock	f = A/P/M A: AM P: PM M: 24-hour clock			
~TA		Adjust tear-off position	Sets the value to adjust the tear-off position.	Media configuration	~TAd	d: Value to adjust tear-off position [dot]	-255 ≤ d ≤ 255	-255 ≤ d ≤ 255		~TA	High

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^TB		Text blocks	Sets wrap for rendering character strings in the field.	Format	^TBo,w,h	o: Block orientation	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)	o = N/R/I/B N: Normal R: 90° rotation (clockwise) I: 180° rotation B: 270° rotation (clockwise)		^TB	Low
						w: Block width [dot]	1 ≤ w ≤ 9999	1 ≤ w ≤ 9999			
						h: Block height	1 ≤ h ≤ Label length	1 ≤ h ≤ Label length			
^TO		Copy files	Copies files stored in the memory device.	Miscellaneous	^TOd1:o1.x1,d2:o2.x2	d1: Drive to be copied from	d1 = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d1 = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^TO	Low
						o1: Name of file to be copied	ASCII code within 8 characters Wild card (Asterisk <*>)	ASCII code within 8 characters Wild card (Asterisk <*>)			
						x1: Extension of file to be copied	All extensions Wild card (Asterisk <*>)	All extensions Wild card (Asterisk <*>)			
						d2: Drive to be copied to	d2 = R/E/B/A	d2 = R/E/B/A			
						o2: Name of copied file	ASCII code within 8 characters Wild card (Asterisk <*>)	ASCII code within 8 characters Wild card (Asterisk <*>)			
						x2: Extension to add to copied file	All extensions Wild card (Asterisk <*>)	All extensions Wild card (Asterisk <*>)			
~W(P	NC	Print nozzle check pattern	Prints the pattern for confirming the operation of the printer.	Printer control	~W(PNC	None	None	None			Low
~WC		Print setting label	Prints multiple pieces of information in a list format.	Miscellaneous	~WC	None	None	None		~WC	Low
^WD		Print directory label	Prints the file information saved in the memory device.	Miscellaneous	^WDd:o.x	d: Storage drive	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory	d = R/E/B/A/Z R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory Z: Non-rewritable memory		^WD	Low
						o: File name	ASCII code within 8 characters Wild card (Asterisk <*>)	ASCII code within 8 characters Wild card (Asterisk <*>)			
						x: Extension	All extensions Wild card (Asterisk <*>)	All extensions Wild card (Asterisk <*>)			
^XA		Start label format	Starts the label format.	Format	^XA	None	None	None		^XA	Low
^XB		Suppress backfeed	Suppresses backfeed when printing is completed.	Printer setting	^XB	None	None	None		^XB	Low

Command List of the Alphabetical Order

[1]"Priority" indicates the function is executed with priority.

Command	Function identifier	Command name	Description	Classification	Command code	Description of parameters	Definition range for ESC/Label	CW-C4000 series		Corresponding ZPL II command	Priority [1]
								Definition range	Factory-set initial value		
^XF		Load label format file	Load label format file	Format	^XFd:o.x	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^XF	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = FMT (Fixed)	x = FMT (Fixed)			
^XG		Draw graphic file with magnification	Renders the graphic file to the field.	Graphic	^XGd:o.x,mx,my	d: Storage drive	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory	d = R/E/B/A R: Volatile memory E: Non-volatile memory B: Optional memory A: Optional memory		^XG	Low
						o: File name	ASCII code within 8 characters	ASCII code within 8 characters			
						x: Extension	x = GRF/PNG	x = GRF/PNG			
						mx: Magnification factor in x axis	1 ≤ mx ≤ 10	1 ≤ mx ≤ 10			
						my: Magnification factor in y axis	1 ≤ my ≤ 10	1 ≤ my ≤ 10			
^XZ		End format	Ends the format.	Format	^XZ	None	None	None		^XZ	Low

- Use the "~H(S" (Get printer operation status) command to get the printer error status.
- Use the "~H(Q" (Get printer status) command to get the printer warning status.

The lists of printer errors and warnings of the CW-C4000 series are indicated in Tables A-1 and A-2.

Table A-1 List of Printer Errors

Definition Range Value	Error Description
NE	No error
FE	Fatal error
CO	Cover open error (paper cover) *1
IE	Replace Ink cartridge, or No Ink cartridge error
SJ	Paper jam error
SN	Paper out error
MF	Replace maintenance box error
SS	Media size error
ST	Media source error
SR	Paper recognition error
CI	Ink cartridge cover open error
MN	No maintenance box error
CM	Maintenance box cover open error
SE	Paper removal error
LT	Maintenance error (tube life)
SC	Sensor calibration error
IC	Cleaning not available due to low remaining ink
MC	Cleaning not available due to insufficient waste ink capacity

*1 In the CW-C4000 series, the roll cover and paper cover have been integrated as a paper cover.

Table A-2 List of Printer Warnings

Definition Range Value	Warning Description
IC1	Cyan ink cartridge low warning
IM1	Magenta ink cartridge low warning
IY1	Yellow ink cartridge low warning
IK1	Black ink cartridge low warning
MNF	Maintenance box near full warning
NSU	Nozzle check disabled
WSC	Service call warning
WNC	Nozzle clog warning