





RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTION



Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.

Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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1. Safety Caution

For higher reliability and safety, consider the following precautionary measures. Read and follow the instructions carefully before running of the product.

Indication



Prohibition



Must follow



Do not disassemble



Unplug the power from the outlet



Grounding to prevent electric shock



Do not handle the product with wet hands



WARNING

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage





Do not pull or touch the power plug with wet hands.

(Potential risk of electric shock or fire)





Do not bend the wire and do not allow the wire to be pressed by heavy object.

(Potential risk of electric shock or fire)





Do not overload the power plug into one outlet.

(Potential risk of electric shock or fire)





If a power plug is broken or a plug is cut or worn, do not use it.

(Potential risk of electric shock or fire)

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WARNING

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage





Do not pull out the power plug to turn off the product.

(Turn off the power at installation, transportation, wiring and inspection.)





Do not disassemble, repair or modify the product.

(Potential risk unit malfunction, electric shock or fire. When the product needs to be repaired, please contact in place where you ordered.inspection.)



CAUTION

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage





Do not install the product in uneven or inclined surface.

(You may get hurt and it can be broken when it falls)





Keep product away from the water and other material.

(Potential risk of discoloration or electric shock)





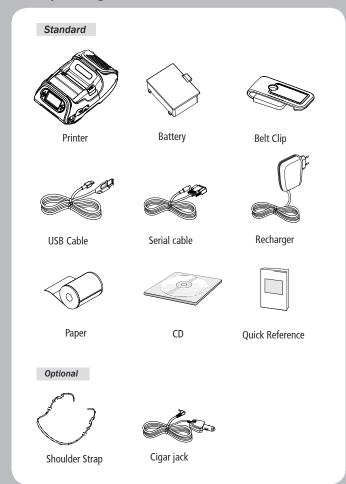
If the product that needs to be repaired, please contact in place where you ordered. (Potential risk of fire or unit malfunction)



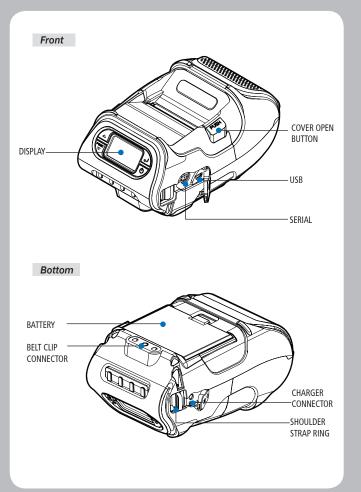


Please do not give excessive shock. (Potential risk of fire or unit malfunction)

2. Unpacking

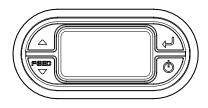


3. Product overview



4. Setting Up the Product

4-1. Display

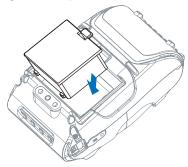


Button	Name	function	
FEED	Paper Feed/ Down button	Advances the supply. Clears error message. Moves down through menu options. 1. Refer to "3-10" for Diagnostic Test information. 2. Refer to the service manual regarding Hexadecimal Dumping.	
	Enter button	Selects the highlighted menu option.	
\triangle	Up button Moves up through menu options.		
O	Power button	Turns the printer on and off. Press to turn power on. Press for three seconds to turn power off. Wakes the printer from sleep mode.	

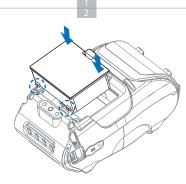
▼ NOTE

- The battery status LEDs indicate amount of power remaining. Actual run-time remaining depends on factors such as the contents of output, distance to computer, etc.
- 2. When the battery level is very low, high density printing can result in the printer switching off during printing resulting in possible loss of data.

4-2. Installing the Battery



Remove the battery. Insert the battery as shown.



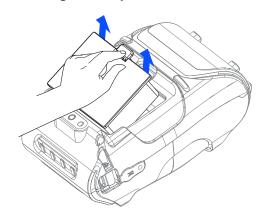
Replace the battery.

√ NOTE

You must fully charge the battery when you receive the printer.

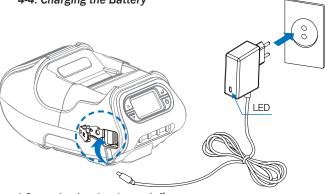
Batteries can be charged in the printer or in an optional external cradle

4-3. Removing the Battery



Remove the battery. Lift out the battery.

4-4. Charging the Battery



- 1. Be sure that the printer is turned off
- 2. After open the DC JACK cover, insert DC JACK into the printer.
- 3. Plug the power code to electrical outlet.

4-4-1 The status of lamp in charging

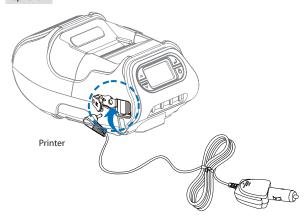
Status	charging	charging complete	
Charging Lamp	Red	Green	

√ NOTE

If there is trouble while charging the battery, the charge indicator LED blinks green. Try unplugging and reconnecting charger, charging should resume. Charging is complete when the LED changes to solid green.

4-5 Usage of Cigar Jack Charger

Optional



Connect the vehicle charger to the printer.

Input	12 ~ 24V
Output	8.4V 0.8 ~ 1.2A

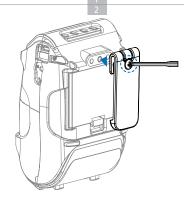
√ NOTE

Connect the vehicle charger to the printer.

4-6. Belt clip Usage



Insert screw into belt clip.



Tighten the screw with driver as shown.

V NOTE

The belt clip is included with the printer but is not required to be used or installed!

4-7. Roll Paper installation



Open the Paper cover by pressing the Open button and set the width of paper guide by turning the knob with finger.



Put the stock in so it unrolls from the bottom. Remove the stock core when it is empty. Pull a short length of stock out of the printer.



Close the cover.



Close the paper with both hands and run the paper line up by pressing feed button.

√ NOTE

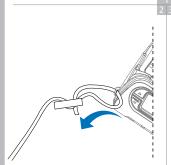
If the users close the cover with one hand, it would not be closed completely.
Please use both hands to close.

4-8. Shoulder Strap Installation

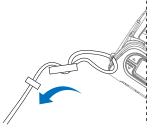
Optional



Insert the strap into the hook of the printer.



Place the end of the strap into the hook of shoulder strap.



After pulling out the end of the strap tightly, put it into the clip to be fastened.

4-9. Diagnostic Test

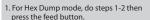


Turn off the printer.



Press and hold the feed button and power button.

V NOTE



- 2. After printing ASCII pattern, the diagnostic test is complete.
- 3. If the feed button is not pressed to go to Hex Dump mode, the printer exits diagnostics after three seconds.



The information label prints.

The sample of self test printout



Upon initial installation or for troubleshooting, you can run the diagnostic test to get information about:

Firmware version, emulation, codepage, sensor settings, interface settings, etc.

If no issues are found with diagnostic test, examine other devices and software.

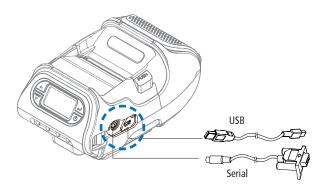
The diagnostic test is working independent of devices and software.

Do not overheat the motor

To prevent the motor from overheating, stop the printer for at least 30 seconds after continuously printing 1.5 meters.

5. Peripherals Connection

5-1. Interface Cable Connection



1. Connect the USB or Serial cable to the cable connector on the printer.

√ NOTE

Use only the cables offered by the printer manufacturer.

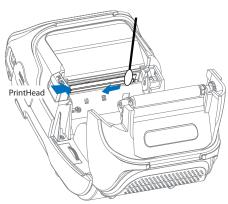
2. Connect the interface cable into the USB or Serial port of the device (PDA, PC, etc.)

6. Printer cleaning

If the interior of the printer is dusty, printing quality can be lowered. In this case, follow the instructions below to clean the printer.

6-1. PrintHead Cleaning

- 1. Use an applicator swab moistened with an isopropyl alcohol to clean the print head and remove any dust.
- 2. Once cleaning is complete, allow the printer to dry then install the stock and close the cover.

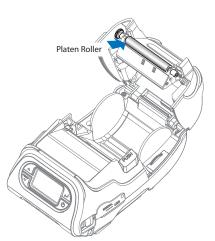


V NOTE

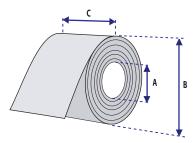
- 1. Make sure to turn the printer power off prior to cleaning
- The printhead can become very hot during printing; allow the printer approximately 10 minutes to cool before cleaning.
- 3. Do not touch the printhead, it can be damaged by static electricity.
- 4. Take care not to allow the print head to become scratched and /or damaged in any way.

6-2. Platen Roller Cleaning

- 1.Clean the platen roller with a clean soft cloth moistened with isopropyl alcohol or a cleaning pen.
- 2. Turn the platen roller with your finger to clean the entire surface.



7. Roll media specification



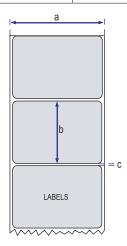
Core		
Diameter(A)	12.7mm +/-0.5mm	
Roll		
Max.diameter(B)	Max. 56mm	
Max.media width(C)	58±0.5mm	
Min.media width(C)	17±0.5mm	
Max.media thickness	0.18mm	
Min.media thickness	0.06mm	



Protect the media against sand, grit, and other hard particles during printing and storage. Keep the cover closed. Even very small foreign particles may cause severe harm to the delicate printhead.

8. Label specification

< a> Media width (inch, liner)		
Maximum	54±0.5mm	
Minimum	13±0.5mm	
< b> Label length		
Minimum	12.7~300 mm	
< c> Label gap height		
Maximum	8.3 mm	
Minimum	1.8 mm	
Liner		
Opacity	50~75%	



7. Printer Specification

7-1. Specification

Printing Method Printing Speed Resolution		Direct Thermal 80mm/sec	
		Character	
Barcode One-Dimensional Barcodes		UPCA +2/+5, UPCE +2/+5, EAN8 +2/+5, EAN13 +2/+5, EAN 128, Interleaved 2 of 5, Extended Code 39, Codabar (NW7), Code 128, Code 93, PostNet	
	Two-Dimensional Barcodes	PDF417, MaxiCode, Aztec, QR Code (Quick Response), Datamatrix	
Stacked One- Dimensional Barcodes		GS1 Databar (RSS or Composite Code)	
Emulation		ESC/POS, ZPL, CPCL Command compatible	
Driver Sensor		Window CE 4.2&5.0, Window Mobile 5.0	
		Black-Mark Upper/Lower, Gap, Cover open, Media-Width Detect	
Paper paper type		Thermal Paper	
	width	12.7~58mm	
	thickness	0.06 ~ 0.18 mm	
	External Diameter	Max. Ø 56mm	
	Internal Diameter	12.5mm±0.5mm	
Reliability	TPH	50km	
Battery		Continuous Printing 54min Standby for 11hours Printing length: 249.8M	
Communications	standard	Serial(RS-232C), USB	

Patton Charger input		AC100~240V, 50/60Hz	
Battery Charger input		AC100~240V, 50/60H2	
	output	8.4V, 800~1200mA	
Battery	Battery type	Li-ion	
	output	7.4V, 2600mAh/19.24Wh	
	Charging time	3.7 Hrs Charging	
Size	WXDXH(mm)	104 X 85 X 158	
	WXDXH"	3.9 X 3.3 X 6.2	
Weight		570g	
Environmental sealing		IP42	
Temperature	operation	5~50℃	
	storage	-20~60℃	
Humidity	operation	35 ~ 80%	
	storage	10 ~ 90%	

8. CPCL Command Compatibility

▼ NOTE

Compatible	Compatible with only commanders provided by the manufacturer.	Partially Compatible	Not Compatible
0	•	Δ	х

Printer Commands	Compatibility
PRINT	0
FORM	0
JOURNAL	0
UNITS	0
USING COMMENTS	0
TEXT	Compatibility
TEXT	0
FONT-GROUP(FG)	0
TEXT CONCATENATION	0
MULTILINE(ML)	0
COUNT	0
SETMAG	0
SCALABLE TEXT	Compatibility
SCALE-TEXT	0
SCALABLE CONCATENATION	0
LINEAR BARCODES	Compatibility
BARCODE	0
BARCODE-TEXT	0
COUNT	0
Two-Dimensional Bar Codes	Compatibility
PDF417 (PORTABLE DATA FILE)	0
MICROPDF-417	•
MAXICODE	0
QRCODE	0

DATAMATRIX	•
GS1(RSS-14)	0
AZTEC	0
GRAPHICS	Compatibility
BOX	0
LINE	0
INVERSE-LINE	0
PATTERN	0
GRAPHICS	0
PCX	0
Advanced Commands	Compatibility
CONTRAST	0
TONE	0
JUSTIFICATION	0
PAGE-WIDTH	0
PACE	0
NO-PACE	0
WAIT	0
SPEED	0
SETSP	0
ON-FEED	0
PREFEED	0
POSTFEED	0
COUNTRY/CODE PAGE	0
FORMAT FILES	0
BEEP	0
Line Print Mode	Compatibility
SETLP	0
SETLF	0
Moving With X and Y Coordinates	0
LMARGIN	0

SETBOLD	0
SETSP	0
Special ASCII Characters	0
SETFF	0
SET-TOF	0
SETLP-TIMEOUT	0
ADVANCED UTILITIES	Compatibility
VERSION	0
CHECKSUM	0
DEL	0
DIR	0
DEFINE-FILE	0
TYPE	0
BAUD	0
COUNTRY / CODE-PAGE	0
TIMEOUT	0
BEED	0
ON-LOW-BATTERY	0
LT	0
SET-TIME	0
GET-TIME	0
SET-DATE	0
GET-DATE	0
PRINTING A TIME STAMP	0
PRINTING A DATE STAMP	0
PAPER-JAM	0
PRINTER ESCAPE	Compatibility
SET AND READ CODE	Δ
STATUS / INFROMATION	0
USER LABEL COUNT	0
POWER OFF	0

9. ESC/POS Command Compatibility

LF Print and line feed CR Print and carriage return FF Print end position label to start printing CAN Cancel print data in page mode DLE EOT Real-time status transmission DLE ENQ Real-time request to printer ESC FF Print data in page mode ESC SP Set character right-side spacing ESC! Set print mode ESC \$ Set absolute print position ESC \$ Set absolute print position ESC \$ Set bit image mode ESC \$ Set line spacing using minimum units ESC \$ Set of Select double-strike mode ESC \$ Select double-strike mode ESC \$ Select tharacter font ESC \$ Select tharacter font ESC \$ Select standard mode ESC \$ Select print direction in page mode	Command	Function	Compatibility
CR Print and carriage return FF Print end position label to start printing CAN Cancel print data in page mode DLE EOT Real-time status transmission CESC FF Print data in page mode ESC FF Print data in page mode ESC SP Set character right-side spacing ESC ! Set print mode ESC \$ Set absolute print position ESC \$ Set absolute print position ESC \$ Set Define user-defined character set ESC \$ Set bit image mode ESC \$ Set bit image mode ESC \$ Set line spacing ESC 2 Set 1/6 inch line spacing ESC 3 Set line spacing using minimum units ESC \$ Cancel user-defined characters ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of set of spacing ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of spacing using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of set of space using minimum units ESC \$ Set of space using unimum units ESC \$ Set of space	HT	Horizontal tab	0
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CAN Cancel print data in page mode DLE EOT Real-time status transmission CESC FF Print data in page mode ESC SP Set character right-side spacing ESC ! Set print mode ESC \$ Set absolute print position ESC \$ Set absolute print position ESC \$ Set before user-defined character set ESC \$ Set bit image mode ESC \$ Set bit image mode ESC \$ Set bit image mode ESC \$ Set lit image mode ESC \$ Set over the print position CO Second S	CR	Print and carriage return	0
DLE EOT Real-time status transmission DLE ENQ Real-time request to printer ESC FF Print data in page mode ESC SP Set character right-side spacing ESC! Set print mode ESC \$ Set absolute print position ESC \$ Select/cancel user-defined character set ESC & Define user-defined characters ESC * Set bit image mode ESC - Turn underline mode on/off ESC 2 Set 1/6 inch line spacing ESC 3 Set line spacing using minimum units ESC ? Cancel user-defined characters ESC @ Initialize printer ESC D Set horizontal tab positions ESC E Select double-strike mode ESC J Print end feed paper using minimum units ESC C Select page mode ESC L Select page mode ESC M Select character font ESC R Select standard mode ESC S Select standard mode ESC S Select power of the receiver of the control of the c	FF	Print end position label to start printing	0
DLE ENQ Real-time request to printer ESC FF Print data in page mode ESC SP Set character right-side spacing ESC! Set print mode ESC \$ Set absolute print position ESC \$ Select/cancel user-defined character set ESC & Define user-defined characters ESC * Set bit image mode ESC - Turn underline mode on/off ESC 2 Set 1/6 inch line spacing ESC 3 Set line spacing using minimum units ESC ? Cancel user-defined characters ESC @ Initialize printer ESC @ Initialize printer ESC D Set horizontal tab positions ESC E Select emphasized mode ESC G Select double-strike mode ESC J Print end feed paper using minimum units ESC C Select page mode ESC M Select character font ESC R Select international character set ESC S Select standard mode ESC S Select power of the page mode ESC S Select standard mode ESC S Select power of the page mode ESC S Select power of the page mode ESC S Select standard mode ESC S Select power of the page mode ESC S Select power of the page mode ESC S Select standard mode ESC S Select power of the page mode ESC S Select power of the page mode ESC S Select standard mode	CAN	Cancel print data in page mode	0
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ESC SP Set character right-side spacing ESC ! Set print mode ESC \$ Set absolute print position ESC \$ Select/cancel user-defined character set ESC \$ Define user-defined characters ESC \$ Set bit image mode ESC - Turn underline mode on/off ESC 2 Set 1/6 inch line spacing ESC 3 Set line spacing using minimum units ESC ? Cancel user-defined characters ESC © Initialize printer ESC D Set horizontal tab positions ESC E Select emphasized mode ESC G Select double-strike mode ESC J Print end feed paper using minimum units ESC L Select page mode ESC M Select character font ESC R Select international character set ESC S Select standard mode ESC T Select print direction in page mode ESC V Set/cancel 90cw rotated character	DLE ENQ	Real-time request to printer	0
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ESC & Define user-defined characters ESC * Set bit image mode ESC - Turn underline mode on/off ESC 2 Set 1/6 inch line spacing ESC 3 Set line spacing using minimum units ESC 7 Cancel user-defined characters ESC 8 Initialize printer ESC D Set horizontal tab positions ESC E Select emphasized mode ESC G Select double-strike mode ESC J Print end feed paper using minimum units ESC L Select page mode ESC M Select character font ESC R Select international character set ESC S Select standard mode ESC S Select standard mode ESC T Select pint direction in page mode	ESC \$	Set absolute print position	0
ESC * Set bit image mode ESC - Turn underline mode on/off ESC 2 Set 1/6 inch line spacing ESC 3 Set line spacing using minimum units ESC ? Cancel user-defined characters ESC @ Initialize printer ESC D Set horizontal tab positions ESC E Select emphasized mode ESC G Select double-strike mode ESC J Print end feed paper using minimum units ESC L Select page mode ESC M Select character font ESC R Select international character set ESC S Select standard mode ESC T Select print direction in page mode ESC T Select print direction in page mode ESC V Set/cancel 90cw rotated character	ESC %	Select/cancel user-defined character set	0
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ESC J Print end feed paper using minimum units ESC L Select page mode ESC M Select character font ESC R Select international character set ESC S Select standard mode ESC T Select print direction in page mode ESC V Set/cancel 90cw rotated character	ESC E	Select emphasized mode	0
ESC L Select page mode C ESC M Select character font C ESC R Select international character set C ESC S Select standard mode C ESC T Select print direction in page mode C ESC V Set/cancel 90cw rotated character C	ESC G	Select double-strike mode	0
ESC M Select character font C ESC R Select international character set C ESC S Select standard mode C ESC T Select print direction in page mode C ESC V Set/cancel 90cw rotated character C	ESC J	Print end feed paper using minimum units	0
ESC R Select international character set C ESC S Select standard mode C ESC T Select print direction in page mode C ESC V Set/cancel 90cw rotated character C	ESC L	Select page mode	0
ESC S Select standard mode C ESC T Select print direction in page mode C ESC V Set/cancel 90cw rotated character C	ESC M	Select character font	0
ESC T Select print direction in page mode C ESC V Set/cancel 90cw rotated character C	ESC R	Select international character set	0
ESC V Set/cancel 90cw rotated character C	ESC S	Select standard mode	0
	ESC T	Select print direction in page mode	0
	ESC V	Set/cancel 90cw rotated character	0
ESC W Set printing area in page mode C	ESC W	Set printing area in page mode	0

Command	Function	Compatibility
ESC\	Set relative position	0
ESC a	Align position	0
ESC d	Print and feed paper n lines	0
ESC t	Select character code table	0
ESC {	Set/cancel upside-down character printing	0
FS p	Print NV bit image	0
FS q	Define NV bit image	0
GS!	Select character size	0
GS \$	Set absolute vertical print position in page mode	0
GS *	Define downloaded bit image	0
GS /	Print down-loaded bit image	0
GS B	Turn white/black reverse printing mode on/off	0
GS H	Select printing position of HRI characters	0
GS I	Transmit printer ID	0
GS L	Set left margin	0
GS W	Set printing area width	0
GS\	Set relative vertical print position in page mode	0
GS a	Enable/disable Automatic Status Back(ASB)	0
GS f	Select font for HRI characters	0
GS h	Set bar code height	0
GS k	Print bar code	0
GS r	Transmit status	0
GS v 0	Print raster bit image	0
GS w	Set bar code width	0
GS S C	Set Serial Baudrate	0
DLE EOT n	Selects card read mode / Cancel card read mode	0
GS S P	Power Save Mode	0

10. ZPL Command Compatibility

Command	Compatibility
^A	0
^B0	0
^B1	0
^B2	0
^B3	0
^B4	0
^B5	0
^B6	0
^B7	0
^B8	0
^B9	0
^BA	0
^BB	0
^BC	0
^BD	0
^BE	0
^BF	0
^BI	0
^BJ	0
^BK	0
^BL	0
^BM	0
^BO	0
^BP	0
^BQ	0
^BR	0
^BS	0
^BT	0
^BU	0

Command	Compatibility
^BX	0
^BY	0
^BZ	0
^CC ~CC	0
^CD	0
^CF	0
^Cl	0
^CT ~CT	0
~DF	0
~DG	0
^FB	0
^FC	0
^FD	0
^FH	0
^FN	0
^F0	0
^FP	0
^FR	0
^FS	0
^FT	0
^FV	0
^FW	0
^FX	0
^GB	0
^GC	0
^GD	0
^GE	0
^GF	0
^GS	0

Command	Compatibility
^ID	0
^IL	0
^IM	0
^IS	0
~JR	0
^JS	0
~JS	0
^KL	0
^LH	0
^LL	0
^LR	0
^LS	0
^LT	0
^MC	0
^MD	0
^MN	0
^PM	0
^PO	0
^PQ	0
^PR	0
~PR	0
^PW	0
^SC	0
^SD	0
^SF	0
^SL	0
^SN	0
^\$0	0
^ST	0

Command	Compatibility
~TA	0
^XA	0
^XF	0
^XG	0
^XZ	0
^ZZ	0