

GS100

CCD Barcode Scanner

User Manual

PROGRAMMING MENU



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Ch. 1 Description

1.1 General

Thank you for purchasing this linear imager barcode scanner. The user friendly functions make it easily to be operated to accommodate variety of environment. It also provides users with the most cost-effective solution in the market. The scanner is perfectly suitable and definitely the best choice for any retail and logistic environment.

1.2 Introduction

The decoder is an advanced and versatile decoding facility for barcoding systems. It works with variety of barcode types and reading devices.

This menu provides an easy way to configure the decoding options and interface selections by scanning barcodes listed in the menu.

1.3 Codes Read

The scanner supports following barcode types:
UPC/EAN/JAN, Code 39, Code 39 Full ASCII,
Code 128, Interleave 25, Industrial 25,
Codabar/NW7, MSI/Plessey, Code 93, China Post,
Code32/Italian Pharmacy, GS1 Databar.

1.4 Installation

Unpacking -

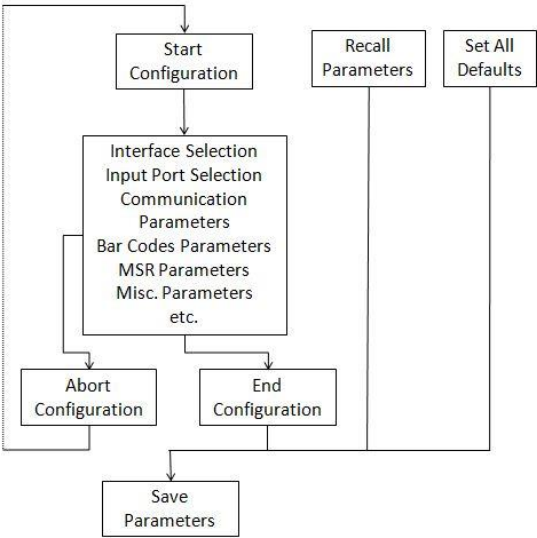
Remove the scanner from its packing and check it for damage. If the scanner is defected in transit, please contact your vendor immediately. Be sure that keep the packing materials with all accessories contained in the package for returning of service.

Connecting the scanner -

Connect the 10-pins RS-45 male connector to the bottom of scanner and you will hear a “click” when the connection is made.

Ch. 2 Configuration

2.1 Flow Chart



2.2 Loop of Programming

The procedure of programming parameters is shown on the flow chart. Basically it is implemented by:

1. Scan “Start Configuration”.
2. Scan all necessary barcodes for parameters that meet applications.
3. Scan “End Configuration” to end the programming.
4. To permanently save the parameters, scan “Save Parameters”.

2.3 Factory Default Settings

The factory default settings are shown with <> and bold in the following sections. Make your own settings by following the procedures in this manual. To save the settings permanently, scan the barcode of “Save Parameters” on “Main Page of Configuration”. Otherwise the settings will be lost after the decoder power is off, and all settings will go back to previous saved settings.

By scanning “Set All Default” then scan “Save Parameters” barcodes, the settings will go back to the factory default settings.

2.4 Main Page of Configuration

Save Parameters



Recall Stored Parameters



Set All Defaults



Start Configuration



End Configuration



Abort Configuration



Version Information



Save Parameters -

The parameters will be saved permanently.

Recall Stored Parameters -

Replace the current parameters by the parameters saved last time.

Set All Defaults -

Set all the parameters to the factory default settings.

Abort Configuration -

Terminate the current programming procedure.

Version Information -

Display the decoder version and date code.

Ch. 3 Interface and Reading Mode

3.1 Interface Selection

Keyboard Mode



%00U0

RS232 Mode



%00U8

WAND Emulation



%00M2

<USB Mode>



%0X08

Virtual COM



%0088

(Driver required)

3.2 Reading Mode Selection

<Good Read OFF>



%0271

Trigger ON/OFF



%0270

Continuous/Trigger OFF



%0272

Testing



%0275

Continuous/Auto Power On



%0273

Flash



%0274

Flash/Auto Power On



%0276

Presentation



%09F8

Ch. 4 Communication Parameters

4.1 RS232 Communication Parameters

A> Setup Baud Rate

2400



%0Y72

1200



%0Y71

<9600>



%0Y77

4800



%0Y73

38400



%0Y75

19200



%0Y74

B> Setup Data Bits

7 Data Bits



%0Y80

<8 Data Bits>



%0Y88

C> Setup Stop Bits

<1 Bit>



%0Y08

2 Bits



%0Y00

D> Setup Parity Check

<None>



%0YN7

Even



%0YN2

Odd



%0YN3

Mark



%0YN1

Space



%0YN0

E> Setup Handshaking

RTS/CTS Enable



%0188

<RTS/CTS Disable>



%0180

ACK/NAK Enable



%0144

<ACK/NAK Disable>



%0140

XON/XOFF Enable



%03K4

<XON/XOFF Disable>



%03K0

4.2 Keyboard Wedge Mode Parameters

A> Terminal Type

<IBM PC/AT, PS/2>



%0ZF0

IBM PC/XT



%0ZF1

IBM PS/2 25, 30



%0ZF2

NEC 9800



%0ZF3

Apple Desktop Bus(ADB)



%0ZF4

IBM 5550



%0ZF5

IBM 122 Key (1)



%0ZF6

IBM 102 Key



%0ZF7

IBM 122 Key (2)



%0ZF8

B> Upper/Lower Case

<No Change>



%03 3 0

Upper Case



%03 3 1

Lower Case



%03 3 2

C> Caps Lock Detection

Enable



%0 X88

<Disable>



%0 X80

D> Send Character by ALT Method

Enable



%0 308

<Disable>



%03 0 0

E> Select Numerical Pad

ON



%01 K4

<OFF>



%01 K0

4.3 Output Character Parameters

A> Select Terminator

<CR+LF>



%7S2+

None



%7S7+

CR



%7S0+

LF



%7S1+

Space



%7S4+

HT (TAB)



%7S3+

STX-ETX



%7S5+

B> Time-out Between Characters

<0 ms>



% 0070

5 ms



%0071

10 ms



% 0072

25 ms



%0073

50 ms



%0074

100 ms



%0075

200 ms



% 0076

300 ms



%0077

4.4 Wand Emulation Mode Parameters

A> TTL Level Representation

<Bar Equals High>



Bar Equals Low



B> Scan Speed Selection

<Fast>



Slow



C> Output Format Selection

<Output as Code 39>



Output as Code 39
Full ASCII



Output as Original
Code Format



Ch. 5 Barcodes & Others

5.1 Symbology Selection

UPC-A <ON>



%0A44

OFF



%0A40

UPC-E <ON>



%0B08

OFF



%0B00

EAN-13/JAN-13<ON>



%0A22

OFF



%0A20

EAN-8/JAN-8 <ON>



%0A11

OFF



%0A10

CODE 39 <ON>



%0E08

OFF



%0E00

CODE 128 <ON>



%0F08

OFF



%0F00

Codabar/NW7 <ON>



%0J08

OFF



%0J00

Interleaved 25 <ON>



%0GO8

Industrial 25 ON



%0HO8

CODE 93 ON



%0KO8

China Post ON



%CMO8

MSI/Plessey ON



%CNO8

OFF



%0GO0

<OFF>



%0HO0

<OFF>



%0KO0

<OFF>



%0MO0

<OFF>



%0NO0

GS1 Databar-Omnidirectional ON



%0U08

<OFF>



%0U00

GS1 Databar-Limited ON



%0V08

<OFF>



%0V00

GS1 Databar-Expanded ON



%0W08

<OFF>



%0W00

Select All Barcodes



%1A/+

5.2 UPC/EAN/JAN Parameters

A> Reading Type

UPCA=EAN13 ON



%0AK4

ISSN Enable



%0B44

UPCA=EAN13<OFF>



%0AK0

ISSN <Disable>



%0B40

Decode with Supplement



%0100

<Auto discriminate
Supplemental>



%0108

Expand UPC-E
Enable



%0BH1

Expand UPC-E
<Disable>



%0BH0

EAN8=EAN13
Enable



%0AO8

EAN8=EAN13
<Disable>



%0AO0

GTIN Format
Enable



%0X44

GTIN Format
<Disable>



%0X40

B> Supplemental Setup

<Not Transmit>



%0B33

Transmit 5 Digits



%0B32

Transmit 2 Digits



%0B31

Transmit 2&5 Digits



%0B30

C> Check Digit Transmission

UPC-A Check Digit Transmission <ON>



%0A12

OFF



%0A10

UPC-E Check Digit Transmission <ON>



%0B12

OFF



%0B10

EAN-8 Check Digit Transmission <ON>



%0A88

OFF



%0A80

EAN-13 Check Digit Transmission <ON>



%0AH1

OFF



%0AH0

ISSN Check Digit Transmission <ON>



OFF



%0BK4

5.3 Code 39 Parameters

A> Type of Code

<Standard>



%0EH1

Full ASCII



%0EH0

Italian Pharmacy/Code 32

<OFF>



%0E80

**Italian Pharmacy/
Code 32 ON**



%0E88

B> Check Digit Transmission

**<Do Not Calculate
Check Digit>**



%0EM2

**Calculate Check Digit
& Transmit**



%0EM 6

**Calculate Check Digit
& Not Transmit**



%0EM4

C> Output Start/Stop Character

Enable



%0E44

<Disable>



%0E40

D> Decode Asterisk

Enable



%0E22

< Disable>



%0E20

E> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4E1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4E00

2. Decimal Value
(Appendix A)

3. 1st Set Complete



%4E01

1. 2nd Set Begin



%4E00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete



%4E02

Minimum Length

1. Begin



%2+- /

2. Decimal Value
(Appendix A)

3. Complete



%2C0+

5.4 Code 128 Parameters

A> Reading Type

UCC/EAN-128

Enable



%0 F4 4

**<UCC/EAN-128
Disable>**



%0F40

Enable ']'C1' Code
Format



%0F22

**<Disable']C1' Code
Format>**



%0F20

Enable Code128
Group Separators(GS)



%0F11

**<Disable Code128
Group Separators(GS)>**



%0F10

B> Check Digit Transmission

Do Not Calculate

Check Digit



%0FN1

Calculate Check
Digit & Transmit



%0FN7

**<Calculate Check Digit
& Not Transmit>**



%0FN5

Do Not Calculate Check
Digit & Transmit



%0FN3

C> Append FNC2

ON



%0F88

<OFF>



%0F80

D> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4F1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4F00

2. Decimal Value
(Appendix A)

3. 1st Set Complete



%4F01

1. 2nd Set Begin



%4F00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete



%4F02

Minimum Length

1. Begin



%2+- /

2. Decimal Value
(Appendix A)

3. Complete



%2C1+

5.5 Interleaved 2 of 5 Parameters

A> Check Digit Transmission

<Do Not Calculate
Check Digit>



%0GN3

Calculate Check Digit
& Transmit



%0GN7

Calculate Check Digit
& Not Transmit



%0GN5

B> Setup Number of Character

<Even>



%0G88

Odd



%0G80

C> Brazilian Bank Code

<Disable>



%0G40

Enable



%0G44

D> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4G1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4G00

2. Decimal Value
(Appendix A)

3. 1st Set Complete



%4G01

1. 2nd Set Begin



%4G00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete



%4G0 2

Minimum Length

1. Begin



%2+ - /

2. Decimal Value
(Appendix A)

3. Complete



% 2C2 +

5.6 Industrial 2 of 5 Parameters

A> Reading Type

IATA25 Enable



%0H44

IATA25 <Disable>



%0H40

B> Check Digit Transmission

<Do Not Calculate
Check Digit>



%0HN3

Calculate Check Digit
& Transmit



%0HN7

Calculate Check Digit
& Not Transmit



%0HN5

C> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value (Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value (Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value (Appendix A)

3. Complete



5.8 Codabar/NW7 Parameters

A> Setup Start/Stop Characters Upon Transmission

ON



%C J H1

<OFF>



%0J H0

B> Check Digit Transmission

<Do Not Calculate Check Digit
& Transmit>



%0JM2

Calculate Check Digit
& Transmit



%0JM6

Calculate Check Digit
& Not Transmit



%0JM4

C> Transmission Type of Start/Stop

<A/B/C/D> <Start>



%04 V F

<A/B/C/D> <Stop>



%04 FF

A Start



%04 V 1

A Stop



%04 F 1

B Start



%04 V 2

B Stop



%04 F 2

C Start



%04 V 4

C Stop



%04 F 4

D Start



%04 V 8

D Stop



%04 F 8

C> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4J 1 +

Fix Length (2 Sets Available)

1. 1st Set Begin



%4J00

2. Decimal Value
(Appendix A)

3. 1st Set Complete



%4J01

1. 2nd Set Begin



%4J00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete



%4J02

Minimum Length

1. Begin



%2+ - /

2. Decimal Value
(Appendix A)

3. Complete



%2C5+

5.9 Code 93 Parameters

A> Check Digit Transmission

**<Calculate 2 Check Digits
& Not Transmit>**



%0KN4

**Do Not Calculate
Check Digits**



%0KN3

B> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4K1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4K00

2. Decimal Value (Appendix A)

3. 1st Set Complete



%4K01

1. 2nd Set Begin



%4K00

2. Decimal Value (Appendix A)

3. 2nd Set Complete



%4K02

Minimum Length

1. Begin



%2+- /

2. Decimal Value (Appendix A)

3. Complete



%2C6+

5.11 MSI/Plessey Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit



Calculate Check Digit
& Transmit



<Calculate Check Digit
& Not Transmit>



B> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4N1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4N00

2. Decimal Value (Appendix A)

3. 1st Set Complete



%4N01

1. 2nd Set Begin



%4N00

2. Decimal Value (Appendix A)

3. 2nd Set Complete



%4N02

Minimum Length

1. Begin



%2+- /

2. Decimal Value (Appendix A)

3. Complete



%2C9+

5.15 GS1 Databar Parameters

A> GS1 Databar-Omnidirectional

<Transmit Check Digit>



Don't Transmit
Check Digit



<Transmit
Application ID>



Don't Transmit
Application ID



Transmit Symbology ID



<Don't Transmit
Symbology ID>



B> GS1 Databar-Limited

<Transmit Check Digit>



Don't Transmit
Check Digit



<Transmit Application ID>



%0V88

Don't Transmit
Application ID



%0V80

Transmit Symbology ID



%0V44

<Don't Transmit
Symbology ID>



%0V40

C> GS1 Databar-Expanded

Transmit Symbology ID



%0W44

<Don't Transmit
Symbology ID>



%0W40

Ch. 6 Miscellaneous Parameters

6.1 Language Selection

<US English>



%0ZV0

UK English



%0ZV1

Italian



%0ZV2

Spanish



%0ZV3

French



%0ZV4

German



%0ZV5

Swedish



%0ZV6

Swiss



%0ZV7

Hungarian



%0ZV8

Japanese



%0ZV9

Belgium



%0ZVA

Portuguese



%0ZVB

Danish



%0ZVC

Dutch



%0ZVD

Turkish_Q



%0ZVE

6.2 Barcode ID

ON



%0 0 H1

<OFF>



%0 0 H0

Default



%9 13 +

With this function ON, a leading character, barcode ID, will be added to the output string while scanning barcodes.

Refer to the following table to check what type of barcode is scanned.

Code Type	ID	Code Type	ID
UPC-A	A	UPC-E	B
EAN-8	C	EAN-13	D
CODE 39	E	CODE 128	F
Interleaved 25	G	Industrial 25	H
Matrix 25	I	Codabar/NW7	J
CODE 93	K	CODE 11	L
China Post	M	MSI/Plessey	N
Code 2 of 6	P	LCD 25	Q
Telepen	T	GS1 Databar-	U
GS1 Databar-Limited	V	Omnidirectional	
		GS1 Databar-Expanded	W

User Define Code ID

To set desired code ID:

1. Scan the symbology barcode.
2. Go to the ASCII Tables in Appendix B, scan label that represents the desired code ID.

Note:

User define code ID will override default value. Program will not check the conflict. It is possible to have more than two symbologies with the same code ID.

UPC-A



%91A+

UPC-E



%91B+

EAN-13/JAN-13



%91Y+

EAN-8/JAN-8



%91Z+

CODE 39



%91E+

CODE 128



%91F+

Codabar/NW7



%91J+

Interleaved 25



%91G+

Industrial 25



%91H+

Matrix 25



%91I+

CODE 93



%91K+

CODE 11



%91L+

China Post



%91M+

MSI/Plessey



%91N+

Code 2 of 6



%91P+

Telepen



%91T+

LCD25



%91Q+

GS1 Databar-
Omnidirectional



%91U+

GS1 Databar-
Limited



%91V+

GS1 Databar-
Expanded



%91W+

Reserved5



%91R+

Reserved6



%91S+

6.3 Reading Level

Bar Equals High



%031 2

<Bar Equals Low>



%031 0

6.4 Accuracy

<1 Time>



%0130

2 Times (V-1040/LG700)



%0131

3 Times



%0132

4 Times



%0133

6.5 Buzzer Tone

<High>



%01J3

Medium



%01J2

Low



%01J1

OFF



%01J0

6.6 Power On Beep

<High>



%A4J3

Low



%A4J1

OFF



%A4J0

6.9 Sensitivity of Continuous Reading Mode

A> Quick Setting:

<Fast>



%0388

Slow



%0380

B> Same Code Delay Reading Interval

This is to configure the length of delay time prior to an identical barcode can be rescanned. The value is defined from 1-50 that represents 100ms - 5 seconds in 100ms interval. The default value is 3 (0.3 seconds).

This setting is only applicable to continuous and flash reading modes.

To setup same code delay reading interval:

1. Scan "Begin".
2. Go the Decimal Value Tables in Appendix A. Scan barcodes(s) that represents the delay reading interval. The range is from 1 to 50. An interval represents 0.1 second. Therefore, the available range is from 0.1 to 5 seconds.
3. Scan "Complete".

1. Begin



%3000

2.Decimal Value (1-50) (Appendix A)

3. Complete



%3001

6.10 Reverse Output Characters

<Disable>



%03H0

Enable



%03H1

6.11 Setup Deletion

Setup the deletion of output characters:

1. Scan the desired set number
2. Scan the desired symbology
3. Go to the Decimal Value Table in Appendix A, scan barcode(s) that represents the desired position to be deleted.
4. Scan “Complete” of “Character Position to be Deleted”.
5. Go to the Decimal Value Table in Appendix A, scan barcode(s) that represents the number of characters to be deleted.
6. Scan “Complete” of “Number of Characters to be Deleted”.

Repeat steps 1 - 6 to configure additional deletion set.

A> Select Deletion Set Number

1. 1st Set



%800+

2. 2nd Set



%801+

3. 3rd Set



%802+

4. 4th Set



%803+

5. 5th Set



%804+

6. 6th Set



%805+

B> Symbology Selection

UPC-A



%81A+

UPC-E



%81B+

EAN-13/JAN-13



%81Y+

EAN-8/JAN-8



%81Z+

CODE 39



%81E+

CODE 128



%81F+

Codabar/NW7



%81J+

Interleaved 25



%81G+

Industrial 25



%81H+

MSI/Plessey



%81N+

CODE 93



%81K+

China Post



%81M+

GS1 DataBar-
Omnidirectional



%81U+

GS1 DataBar-
Expanded



% 81W+

None



% 814+

GS1 DataBar-
Limited



%81V+

All Barcodes



%81S+

C> Character Position to be Deleted

1. Decimal Value
(Appendix A)

2. Complete



%8 20+

D> Number of Characters to be Deleted

1. Decimal Value
(Appendix A)

2. Complete



%8 30+

6.12 Setup Insertion

Setup the insertion of output characters:

1. Scan the desired set number.
2. Scan the desired symbology.
3. Go to the Decimal Value Table in Appendix A, scan barcode(s) that represents the desired position to be inserted.
4. Scan “Complete” of “Character Position to be Inserted”.
5. Go to the ASCII Table in Appendix B or Function Key Table in Appendix C, scan barcode(s) that represents the desired characters to be inserted.
6. Scan “Complete” of “Characters to be Inserted”.

Repeat steps 1 - 6 to configure additional insertion set.

A> Select Insertion Set Number

1. 1st Set



%500+

2. 2nd Set



%501+

3. 3rd Set



%502+

4. 4th Set



%503+

5. 5th Set



%504+

6. 6th Set



%505+

B> Symbology Selection

UPC-A



%51A+

UPC-E



%51B+

EAN-13/JAN-13



%51Y+

EAN-8/JAN-8



%51Z+

CODE 39



%51E+

CODE 128



%51F+

Codabar/NW7



%51J+

Interleaved 25



%51G+

Industrial 25



%51H+

MSI/Plessey



%51N+

CODE 93



%51K+

China Post



%51M+

GS1 Databar-
Omnidirectional



%51U+

GS1 Databar-
Limited



%51V+

GS1 Databar-
Expanded



%51W+

All Barcodes



%51S+

None



%514+

C> Character Position to be Inserted

1. Decimal Value
(Appendix A)

2. Complete



%520+

D> Characters to be Inserted

1. ASCII Table
(Appendix B)

2. Complete



%530+

Appendix A Decimal Value Table

0



1



2



3



4



5



6



7



8



9



Appendix B ASCII Table

NULL



00

ETX



03

ACK



06

HT



09

FF



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c  63	e  65	d  64
f  66	h  68	g  67
i  69	k  6B	j  6A
l  6C	n  6E	m  6D
o  6F	q  71	p  70
r  72	t  74	s  73
u  75	w  77	v  76
x  78	z  7A	y  79
{  7B	}  7D	  7C
~  7E	DEL  7F	

Appendix C Function Key Table

F1



C0

F2



C1

F3



C2

F4



C3

F5



C4

F6



C5

F7



C6

F8



C7

F9



C8

F10



C9

F11



CA

F12



CB

Insert



CC

Delete



CD

Home



CE

Page Up



CF

Page Down



D0

End



D1

Left



D2

Right



D3

Up



D4

Down



D5

ESC



D6

BS



D7

Tab



D8

Shift



D9

Ctrl



DA

Alt



DB

All the above programming materials are subject to change without prior notice.

Save Parameters



%%\$+/0

Recall Stored
Parameters



%%\$+/1

Set All Defaults



%%\$+/2

Start Configuration



%%\$+/3

End Configuration



%%\$+/4

Abort Configuration



%%\$+/6

Version Information



%%\$+/5

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