

Modelo LINQ Li-M280

## INTRODUCTION

### Feature/Benefits

1. Fast Performance at 100scans/per sec / Increased productivity resulting in shorter checkout lines and better customer service
2. Multiple Interfaces On Board / Ensure flexible connectivity, allowing for host "future proofing"
3. Bright LED and beeper with adjustable volume / Multiple modes of confirmation ensure positive user feedback
4. Hands-free with stand (Optional) / Enables presentation scanning and easy switching between hands-held and handfree modes
5. Ergonomic design / Reduces user fatigue with sleek balanced form for maximum comfort and productivity
6. High-end Appearance Mould / Delicate and Exquisite Appearance
- bring you the enjoyment of you distinguished
7. Imported Laser Engine &CK push-button / 10,000 hours reliability for the engine ,
- 300,000 times reliability for the pushbutton
8. Superb scanning Ability / Enable to scan all the ID bar code , composite component bar code, colorful Bar code, bar code covered by thin film

## Why do you choose our products?

### 1.Maximum Productivity at an Affordable price

Handheld laser bar code scanner form us delivers performance features at an acceptably affordable price to made you buying decision easier than ever before .From the checkout line to the back room ,our products help you make the most of your application-specific solution in a variety of ways including :Transform your Retail ,

Transportation&Logistics and Industrial Application.

### 2.Transform you Retail Transportation&Logistics and Industrial A pplication

Adding bar code scanning to your application-specific solution is convenient and flexible .You can configure the bar code scanner by scanning the bar code we offer to realize your wanted function in Retail , Transportation&Logistics and Industry.

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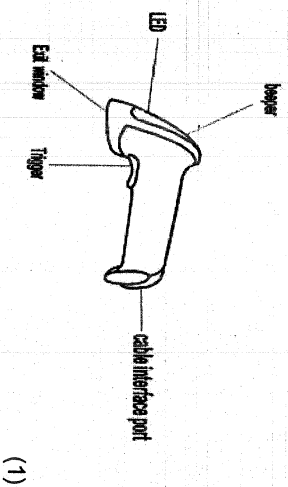
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## BARCODE SCANNER INTERFACE CABLE INSTALLING AND REMOVING

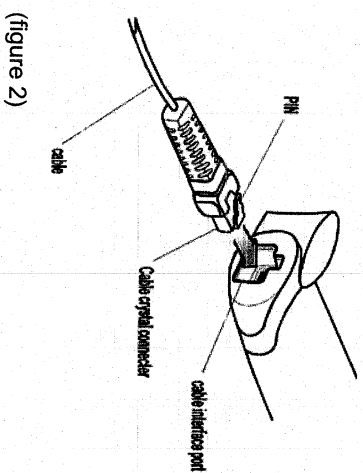
### Appearance:



### 2.Installing the interface cable (figure 2)

- 1.Plug the interface cable modular connector into the cable interface port on the bottom of the scanner handle(see figure2)
- 2.Gently tug the cable to ensure the connector is properly secured
- 3.Connect the other end of the interface cable to the host

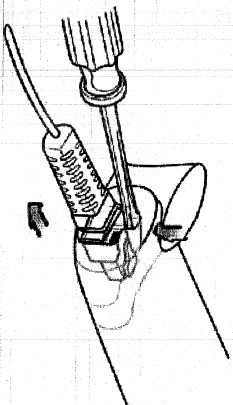
6



### Removing the interface cable (figure 3)

- 1.Unplug the installed cable's modular connector by depressing the connector clip with the tip of a screwdriver
- 2.Carefully slide out the cable
- 3.Follow the steps for the interface cable on page to connect a new cable

7

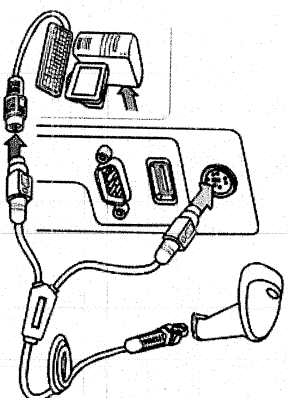


(figure 3)

### Cable Connection

KBW Connection with Y-cable(figure 4)

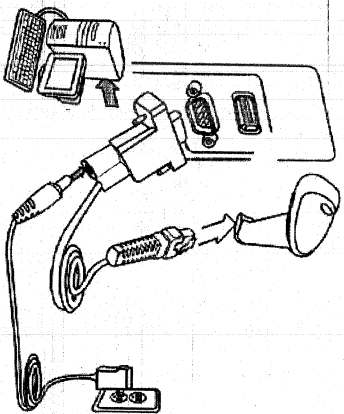
1. Switch off the host and unplugging the keyboard connector
2. Connect the host female DIN keyboard connector of the Y-cable to the keyboard
3. Connect the round made DIN connector of the Y-cable to the keyboard port on the host device
4. Switch on your host system . The buzzer and led of scanner will have the remind signal of all connections are secure



(figure 4)

RS-232 Direct Connection (figure 5)

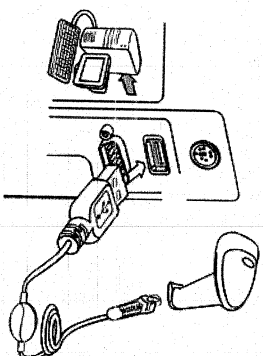
1. Switch off the host
2. Connect the RS-232 interface cable to bottom of the scanner
3. Connect the other end of the interface cable to the serial port on the host
4. If the equipment haven't power supply, please use the 5V power supply to the cable
5. Switch on your host system. The buzzer and led of scanner will have the remind signal if all connections are secure



(figure 5)

#### USB connection (figure 6)

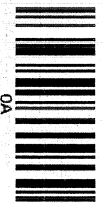
1. Connect the USD interface cable to the bottom of the scanner
1. Connect the other end of the interface cable to the host
2. The buzzer and LED of scanner will have the remind signal if all connections are secure
3. Windows will check the USB equipment automatically



(figure 6)

## Multiscan Functions

DISPLAY THE VERSION NO



0A

RESTORE TO MANUFACTURER SETTING



0B

OUTPUT MODE

KBW MODE



000690

SERIAL MODE



000601

WAND EMULATION  
MODE



000602

RESET  
MODE



080006

BUZZER/LED

MUTE



014200

TURN ON



08142

12

MEDIUM TONE



014301

POWER MODE



01431

### IMAGE SETUP

DECODE OPTIONS

DECODE OPTIONS REVERSE

REVERSE GE-ENABLE

IMAGE-DISABLE



01391



01390

### ADD CODE ID

BEFORE CLOSE

BEFORE OPEN BARCODE

BARCODE TO ADD ID

TO ADD ID



01400



01401

AFTER CLOSE BARCODE

BEFORE OPEN BARCODE

TO ADD ID

TO ADD ID



08140



01402

13

## SCANNING MODE

LASER/CCD MODE-  
RESET



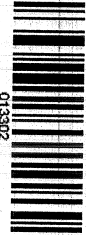
013300

LASER/CCD MODE-SINGLE  
SCAN NO TRIGGER



013301

LASER/CCD  
MODE-MULTISCAN



013302

SER/CCD MODE-MULTISCAN  
NO TRIGGER



013303

LASER/CCD MODE-AUTOM  
ATIC CONTINUOUS SCAN



013304

LASER/CCD  
MODE-AUTOMATIC TWINKLE



013305

## Interface-KBW PC INPUT MODE

WEDGE  
MODE-AUTODETECT



000200

WEDGE MODE-SCAN SET2PASS  
THRU



000204

14

## Transmit Speed

TRANSMIT SPEED 0



0000000

TRANSMIT SPEED 25



0000025

## KBW LANGUAGE

KEYBOARD COUNTRY-USA



0005000

KEYBOARD COUNTRY-GERMANY



0005010

KEYBOARD COUNTRY-FRANCE



0005009

KEYBOARD COUNTRY-RESET



0005025

## Interface - Serial-1

### BAUD RATE

2400



000703

4800



000704

9600



000705

19200



000706

15

## HAND SHAKE PROTOCOL

SERIAL HANDSHAKE-NONE



007200

SERIAL HANDSHAKE-XON/OFF



007201

SERIAL HANDSHAKE-  
RTS/CTS



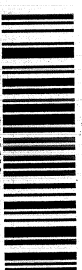
007202

SERIAL HANDSHAKE-  
ACK/NAK



007203

SERIAL HANDSHAKE  
TIMEOUT-2 SECONDS



0073020

SERIAL HANDSHAKE  
TIMEOUT-5 SECONDS



0073050

### Interface-Serial-2

#### DATA BIT

SERIAL DATA BITS-8



00081

SERIAL DATA BITS -7



00080

16

## END BIT

SERIAL STOP BITS - 1



00090

SERIAL STOP BITS - 2



00091

### PARITY CHECK

SERIAL PARITY - NONE



007000

SERIAL PARITY - ODD



007001

SERIAL PARITY - EVEN



007002

SERIAL PARITY - MARK



007003

SERIAL PARITY - SPACE



007004

SERIAL PARITY - RESET



08010

### Interface-WAND

#### BARCODE 128

CODE 128 WAND EMULATION - ON



007141

CODE 128 WAND EMULATION -OFF



007140

17

# SPEED

WAND EMULATION  
SPEED-FASTEST ( 0 )



001500

WAND EMULATION  
SPEED-SLOWEST ( 3 )



001503

## BAR LEVEL

WAND EMULATION-BAR=1 (HIGH)



00161

WAND EMULATION-BAR=0 (LOW)



00160

## CODE 11

CODE 11-ON



01261

CODE 11 - OFF



01260

## CODE 39

CODE 39 ON



00221

CODE 39 - OFF



00220

18

FULL ASCII ON



00231

FULL ASCII OFF

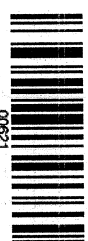


00230

## BARCODE On/Off

### CODE 93

CODE 93 - ON



00621

CODE 93 - OFF



00620

### CODE128

CODE 128 - ON



00691

CODE 128 - OFF



00690

CODE 128 ISBT - ON



00701

CODE 128 ISBT - OFF



00700

## CODABAR

CODABAR - ON



008951

CODABAR - OFF



00850

19

# INTERLEAVED 2 OF 5

12 OF 5 - ON



00361

12 OF 5 - OFF



00360

## INDUSTRIAL 2 OF 5

ID2OF5- ON



01061

ID2OF5- OFF



01060

## MSI/PLESSEY

MSI - ON



01151

MSI - OFF



01150

## UPC/EAN

UPC-A ON



00341

UPC-A OFF



00340

UPC-E ON



00361

UPC-E OFF



00360

20

EAN-13 ON



00361

EAN-13 OFF



00360

EAN-8 ON



00371

EAN-8 OFF



00370

## BARCODE SYBOL Set Up - 1

CODE 11

CODE 11 ID  
CHARACTER<sup>1</sup>m'



0131m

CODE 11 ID  
CHARACTER<sup>2</sup>



0131z

CODE 11 LASER/CCD  
REDUNDANCY - ON



01321

CODE 11 LASER/CCD  
REDUNDANCY - OFF



01320

21

# CODE 39

CODE 39 SS CHAR - NONE



002700

CODE 39 SS CHAR '+'



002704

CODE 39 SEND STAR/STOP  
CHARS ON



00281

CODE 39 SEND  
STAR/STOP CHARS OFF



00280

CODE 39 ID CHARACTER 'a'



0031a

CODE 39 ID CHARACTER 'z'



0031z

CODE 39 LASER/CCD  
REDUNDANCY ON



00331

CODE 39 LASER/CCD  
REDUNDANCY OFF



00330

# BARCODE SYMBOL Set Up - 2

## CODE 93

CODE 93 ID CHARACTER 'h'



0066h

CODE 93 ID CHARACTER 'z'



0066z

CODE 93 LASER/CCD  
REDUNDANCY-ON



00661

CODE 93 LASER/CCD  
REDUNDANCY-OFF



00660

## CODE 128

CODE 128 ID CHARACTER 'g'



0081g

CODE 128 ID CHARACTER 'z'



0081z

CODE 128 LASER/CCD  
REDUNDANCY-ON



00841

CODE 128 LASER/CCD  
REDUNDANCY- OFF

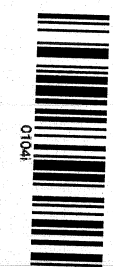


00840

# CODABAR

# Interleaved 2 of 5

CODABARSENDSTART CODABAR SEND START/STOP  
STOP CHARS-ON CHARS-OFF



CODABAR WIDE GAPS  
ALLOWED-ON

CODABAR WIDE GAPS  
ALLOWED-OFF



12OF5 LASER/CCD  
REDUNDANCY-ON

CODABAR LASER/CCD  
REDUNDANCY-OFF



## BARCODE SYMBOL Set Up - 3

## Industrial 2 of 5

### CODABAR

CODABAR ID CHARACTER-k CODABAR ID CHARACTER-z



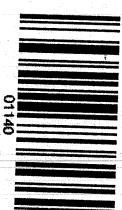
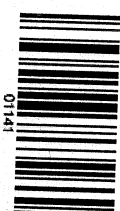
CODABAR LASER/CCD  
REDUNDANCY-ON

CODABAR LASER/CCD  
REDUNDANCY-OFF



ID2OF5 LASER/CCD  
REDUNDANCY-ON

ID2OF5 LASER/CCD  
REDUNDANCY-OFF



# **BARCODE SYMBOL Set Up - 4** **MSI/PLESSEY**

MSI ISBN ID  
CHARACTER-f



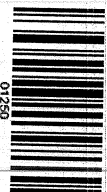
MSI ISBN ID  
CHARACTER-z



MSI LASER/CCD  
REDUNDANCY-ON



MSI LASER/CCD  
REDUNDANCY-OFF

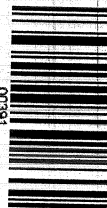


## **UPC/EAN**

EXPAND UPC-E TO  
UPC-A ON



EXPAND UPC-A TO  
EAN-13 ON



EXPAND UPC-E TO  
UPC-A OFF



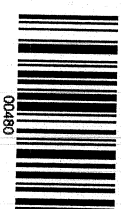
EXPAND UPC-A TO  
EAN-13 -OFF



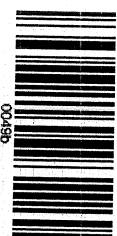
CONVERT EAN-13  
TO ISBN ON



CONVERT EAN-13 TO  
ISBN -OFF



UPC-A ID CHARACTER-b



UPC-A ID CHARACTER-z



## **BARCODE SYMBOL Set Up-5** **UPC/EAN**

UPC-E ID CHARACTER-c



UPC-E ID CHARACTER-z



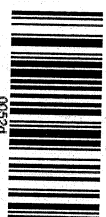
EAN-13 ID CHARACTER-e



EAN-13 ID CHARACTER-z



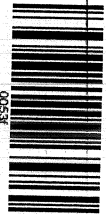
EAN-8 ID CHARACTER-d



EAN-8 ID CHARACTER-z



ISBN ID CHARACTER -f



ISBN ID CHARACTER -z



**EDIT SETUP BARCODES**

EDIT #1-STRIP 1 LEADING CHARACTER ON ALL BARCODES THAT  
START WITH '12345'



EDIT #1 - OFF

020001010000000100000000112345

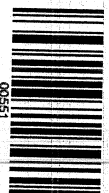
UPC/EAN

SUPPLEMENTS-OFF



UPC/EAN S UPPLEMENTS-

2DIGIT ONLY



UPC/EAN SUPPLEMENT  
S-5DIGIT ONLY



UPC/EAN SUPPLEMENTS-  
2DIGIT ONLY



EDIT #2-STRIP 1 TRAILING  
CHARACTER



CHARACTER

EDIT #2

- OFF



EDIT #1-FILTER  
LEADING SPACES



EDIT #1

- OFF



**BARCODE SYBOL Set Up-6**  
**UPC/EAN**

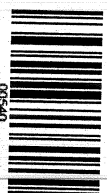
UPC/EAN LASER/CCD

REDUNDANCY ON



UPC/EAN LASER/CCD

REDUNDANCY OFF



EDIT #1-FILTER TRAILING  
SPACES



EDIT #1

- OFF



EDIT FILTER  
CHARACTERS

EDIT-DISABLE FILTERING OF  
ALL CHARS



02000050000046

0B20000300000045

EDIT-INSERT LEADING ZERO



0200006000000046

EDIT-DISABLE INSERT LEADING ZERO



0B2000060000000046

### MACRO/SPECIAL KEYS SETUP BARCODES

MACRO #1-FIND'1'AND PRPLACE WITH'ONE'



02010101011ONE

30

MACRO #1-DISABLED



0B20101

MACRO #2-FIND'2'AND REPLACE WITH 'TWO'FOR CODE 39 ONLY



02010203012TWO

MACRO #2-DISABLED 換



0B20102

MACRO-FIND'0'AND REPLACE WITH'A'



020100001010A

MACRO-FIND'0'AND REPLACE WITH'A'-DISABLE



0B2010001010A

31

SPECIAL KEY-MAP  
F3 TO '0'



0162048

SPECIAL KEY-DISABLE  
F3 KEY MAPPING



08182

SPECIAL KEY-MAP  
KEYPAD ENTER TO '2'



0182050

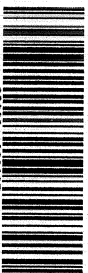
SPECIAL KEY-DISABLE  
KEYPAD ENTER MAPPING



08182

### TERMINATION STRING SETUP BARCODES

STRING#1-TERMINATION CHAR-CR



0202011000\$0D

STRING#1-TERMINATION-LF



0202011000\$0A

STRING#1-TERMINATION CR+L F



0202011000\$0D\$0A

32

STRING#1-DISABLED



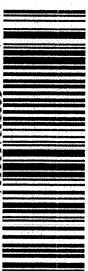
0820201

STRING#2-CODE128TERMINATION CHAR-CR



0202021080\$0D

STRING#2-CODE 128TERMINATION CHAR-LF



0202021080\$0A

STRING#2-CODE128 TERMINATION CHAR-CR+LF



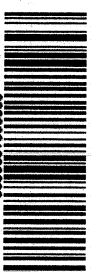
0202021080\$0D\$0A

STRING#2-CODE 128TERMINATION CHAR-LF



0820202

STRING-CODE 39 TERMINATION CHAR-TAB



020201020\$09

33

# STRING-CODE39 TERMINATION CHAR-TAB-REMOVED



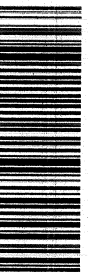
052020010220S03

## STRING-ALL CODES PREAMBLE-STX



02020020000\$02

## STRING-ALL CODES POSTAMBLE-ETX



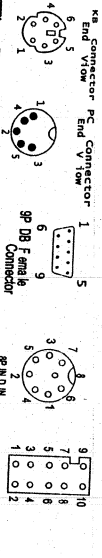
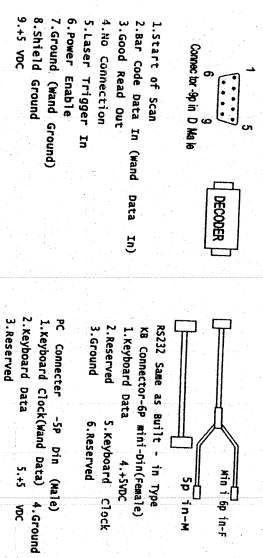
02020030000\$03

Appendix C  
The special characters table is a list of all of the characters that can be entered with the \$ special character designator. The special character can be used in any of the string inputs in the decode table. Locate the key that you want to embed and enter the value in the Hex column of the table.

| Hex | Dec | Description       | Hex | Dec | Description         | Hex | Dec | Description        |
|-----|-----|-------------------|-----|-----|---------------------|-----|-----|--------------------|
| #00 | 0   | NUL(CTRL. @)      | #81 | 129 | F2                  | #A3 | 163 | 5 Keypad           |
| #01 | 1   | SON(CTRL. A)      | #82 | 130 | F3                  | #A4 | 164 | 6 Keypad           |
| #02 | 2   | STX(CTRL. B)      | #83 | 131 | F4                  | #A5 | 165 | 7 Keypad           |
| #03 | 3   | ETX(CTRL. C)      | #84 | 132 | F5                  | #A6 | 166 | 8 Keypad           |
| #04 | 4   | EO(CTRL. D)       | #85 | 133 | F6                  | #A7 | 167 | 9 Keypad           |
| #05 | 5   | ENQ(CTRL. E)      | #86 | 134 | F7                  | #A8 | 168 | Insert Keypad      |
| #06 | 6   | ACK(CTRL. F)      | #87 | 135 | F8                  | #A9 | 169 | Delete Keypad      |
| #07 | 7   | BEI(CTRL. G)      | #88 | 136 | F9                  | #AA | 170 | Home Keypad        |
| #08 | 8   | BS(backspace)     | #89 | 137 | F10                 | #AB | 171 | end Keypad         |
| #09 | 9   | HT(tab)           | #8A | 138 | F11                 | #AC | 172 | Page Up Keypad     |
| #0A | 10  | LF(CTRL. J)       | #8B | 139 | F12                 | #AD | 173 | Page Down Keypad   |
| #0B | 11  | VT(CTRL. K)       | #8C | 140 | Left shift mark     | #AE | 174 | Up Arrow Keypad    |
| #0C | 12  | FF(CTRL. L)       | #8D | 141 | Left shift mark     | #AF | 175 | Down Arrow Keypad  |
| #0D | 13  | CR(enter)         | #8E | 142 | Right shift mark    | #80 | 176 | Left Arrow Keypad  |
| #0E | 14  | SO(CTRL. N)       | #8F | 143 | Right shift mark    | #81 | 177 | Right Arrow Keypad |
| #0F | 15  | SI(CTRL. O)       | #90 | 144 | Left ALT mark       | #82 | 178 | Center Keypad      |
| #10 | 16  | DL(CTRL. P)       | #91 | 145 | Left ALT break      | #83 | 179 | Insert             |
| #11 | 17  | DC(CTRL. Q)       | #92 | 146 | Right ALT mark      | #84 | 180 | Delete             |
| #12 | 18  | DO(CTRL. R)       | #93 | 147 | Right ALT break     | #85 | 181 | Home               |
| #13 | 19  | DC(CTRL. S)       | #94 | 148 | Left control mark   | #86 | 182 | End                |
| #14 | 20  | DO(CTRL. T)       | #95 | 149 | Right control mark  | #87 | 183 | Page Up            |
| #15 | 21  | NA(CTRL. U)       | #96 | 150 | Right control break | #88 | 184 | Page Down          |
| #16 | 22  | STX(CTRL. V)      | #97 | 151 | Keypad              | #89 | 185 | Up Arrow           |
| #17 | 23  | ETX(CTRL. W)      | #98 | 152 | Keypad              | #8A | 186 | Down Arrow         |
| #18 | 24  | CA(CTRL. X)       | #99 | 153 | Keypad              | #8B | 187 | Left Arrow         |
| #19 | 25  | EM(CTRL. Y)       | #9A | 154 | Keypad              | #8C | 188 | Right Arrow        |
| #1A | 26  | SI(CTRL. Z)       | #9B | 155 | Keypad              | #8D | 189 | Num Lock           |
| #1B | 27  | ESC(ESC)          | #9C | 156 | Keypad              | #8E | 190 | Cursor Lock        |
| #1C | 28  | FS(CTRL. \)       | #9D | 157 | enter Keypad        | #8F | 191 | Scroll Lock        |
| #1D | 29  | OS(CTRL. J)       | #9E | 158 | Keypad              | #C0 | 192 | Screen             |
| #1E | 30  | RS(CTRL. ^)       | #9F | 159 | Keypad              | #C1 | 193 | Print Screen       |
| #1F | 31  | US(CTRL. _)       | #A0 | 160 | Keypad              | #C2 | 194 | Pause              |
| #7F | 127 | DEL(CTRL. Backsp) | #A1 | 161 | Keypad              |     |     |                    |
| #80 | 128 | F1                | #A2 | 162 | Keypad              |     |     |                    |

The \$ designator is used to output any character code between 1 and 226. The following table shows the keypad sequence sent to the computer for the keypad code entered. The actual character displayed will depend upon the software running and the country setting of your computer. IN some cases, no actual character is displayed.

## Appendix-A : Interfacedescription & Specification



| Color  | Type | Function      | Spin down (°) | Spin 0 (m) | Spin 0 (m) | Spin 1 (m) | Spin 2 (m) |
|--------|------|---------------|---------------|------------|------------|------------|------------|
| Brown  |      | Start of scan | 1             | -          | 6          | 6          | 6          |
| Yellow |      | Signal data   | 2             | -          | 2          | 4          | -          |
| Green  |      | LED indicator | 3             | -          | -          | -          | -          |
| Red    |      | TT trigger    | 5             | 5          | 5          | 5          | 5          |
| Blue   |      | Power fiddle  | 6             | 6          | 4          | 4          | 4          |
| Black  |      | GND           | 7             | 7          | 3          | 3          | 3          |
| White  |      | GND shield    | 8             | 8          | 3          | 3          | 3          |
| Orange |      | VCC5V         | 9             | 9          | 1          | 1          | 1          |

| Color  | Function | 9Pin<br>BDM/MPF | 25Pin<br>DSMG |
|--------|----------|-----------------|---------------|
| Brown  | GND      | 5               | 7             |
| Yellow | CTS      | 7               | 4             |
| Green  | RTS      | 8               | 5             |
| Orange | RX       | 3               | 2             |
| Blue   | TX       | 2               | 3             |
| White  | VCC+5V   | 9               | 25,16         |

| Color  | Function    | 1 Pin<br>(M) | 3 Pin<br>(B) | 10 Pin<br>(DSG) |
|--------|-------------|--------------|--------------|-----------------|
| Black  | Clcd Return | 4            | 1            | 3               |
| Green  | Clcd        | 3            | 2            | 9               |
| Yellow | Data Return | 1            | 4            | 5               |
| Red    | Data        | 2            | 3            | 7               |
| White  | VCC+5V      | 5            | 7            | 10              |
| Brown  | GND         | 7            | 8            | 1               |

| Color | Function    | 9-pin<br>DSUB/AMP(F) | 5-pin<br>DIN(A) | 9-pin<br>DIN |
|-------|-------------|----------------------|-----------------|--------------|
| Blue  | Signal Data | 2                    | 2               | 3            |
| Brown | GND         | 7, 8                 | 3               | 3            |
| White | Vcc +5V     | 9                    | 1               | 1            |

| Color  | Function | 9 Pin<br>DSUB/AMP (F) | 25 Pin<br>DSUB<br>(F) |
|--------|----------|-----------------------|-----------------------|
| Brown  | GND      | 5                     | 7                     |
| Blue   | TX       | 3                     | 3                     |
| White  | VCC +5V  | 9                     | 25, 16                |
| Orange | RX       | 2                     | 2                     |