TT-DCAP Quick Guide

QUICK GUIDE FOR DMS
(DUAL SESSION) SWITCH ACCESS TERMINALS
PN # TT-DCAP-DMSKIT & TT-DCAP-DMSKIT2

CONTENTS:

TAG INC.
Telecom Assistance Group, Inc.
856-753-8585
www.tagcords.com

TT-DCAP Quick Guide

TERMINAL KIT CONFIGURATION FOR DMS SWITCH ACCESS

PN # TT-DCAP-DMSKIT & TT-DCAP-DMSKIT2

FIGURE 1

* PRESS THE AUTO BUTTON <u>TWICE</u> TO AUTOMATICALLY OPTIMIZE THE DISPLAY POSITION, FOCUS AND CLOCK OF YOUR DISPLAY.
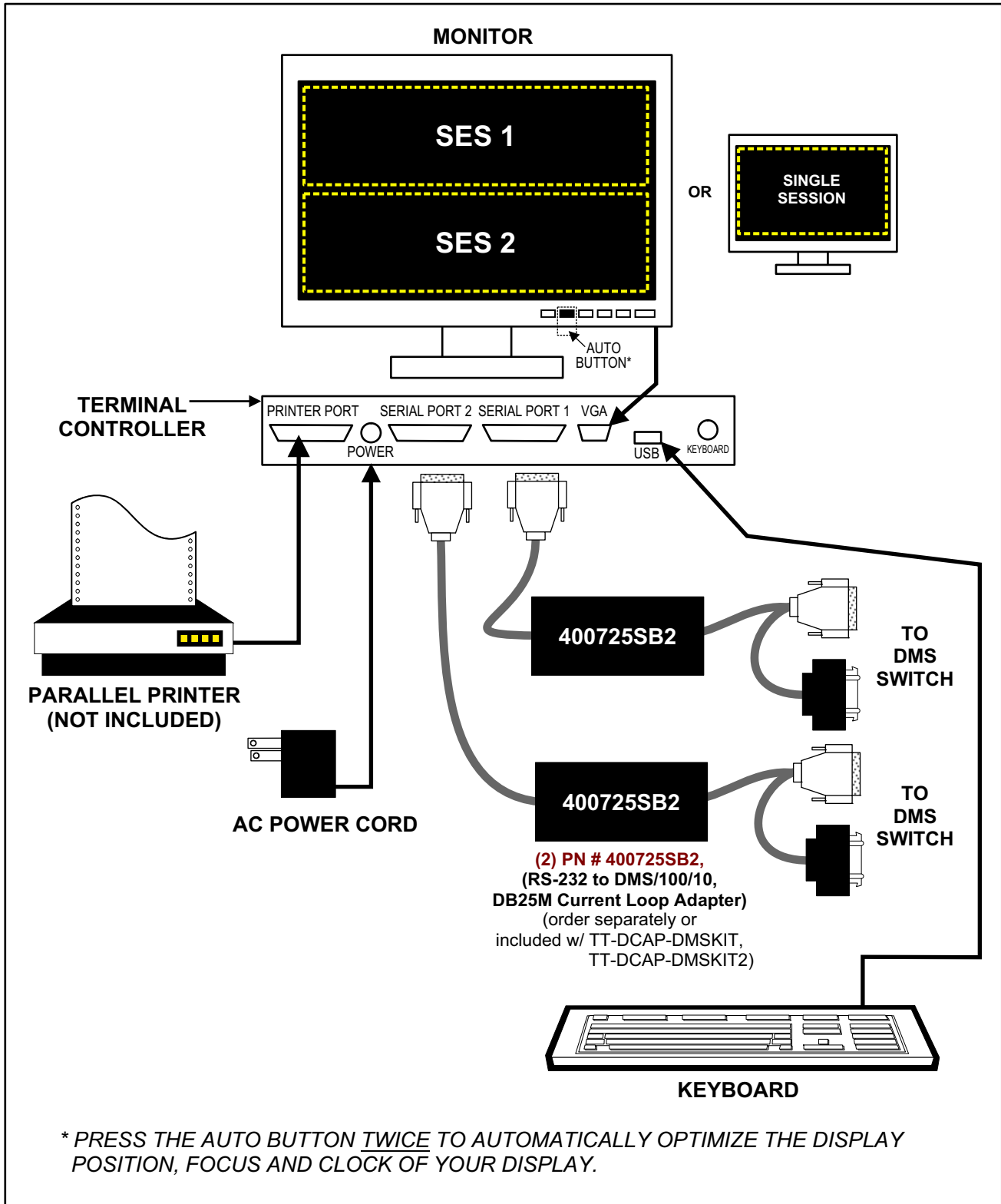
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TERMINAL COMMAND KEYS

FIGURE 2
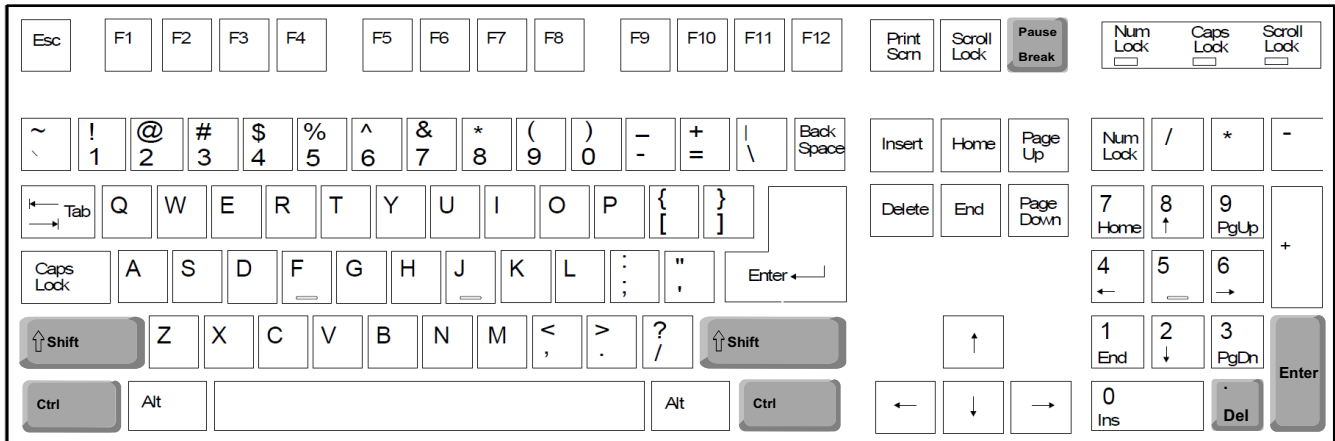
SWITCH SESSIONS (for dual sessions only)	Press **Ctrl + Enter** *(Enter on the Number Pad)*	
PRINT	Press **Ctrl + Shift + ●** *(Decimal on the Number Pad)*	
SEND BREAK	Press **Ctrl + Pause/Break Key**	

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GENERAL SETTINGS NOTE

Terminals are supplied pre-configured for your DMS switch. Some local settings may need to be adjusted. Example: Baud Rate, Function Keys etc.

The following pages show how to make adjustments to the terminal when required.
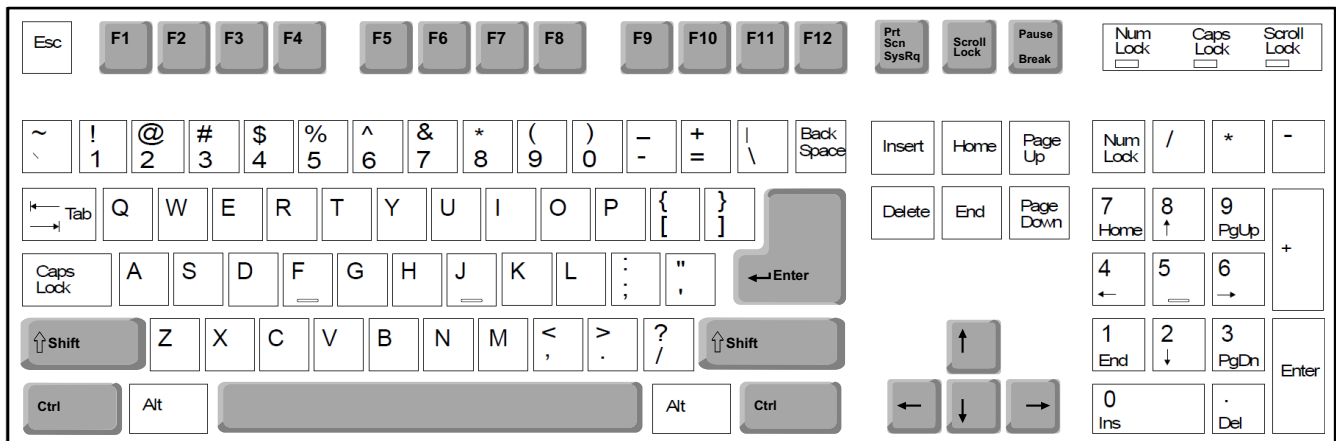
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TERMINAL SETUP

FIGURE 3

F1 Quick	F2 Genrl	F3 Displ	F4 Kybd	F5 Keys	F6 Ports	F7 Host	F8 Print	F9 Emul	F10 Tabs	F11 AnsBk	F12 Prog	PrtSc Exec

Save all? (Y/N)

PARAMETERS

Parameters

Emulation=VT-100

Comm Mode=Full Duplex

Enhanced=On

Host/Printer=SER1/Para

SER1 Baud Rate = 9600

SER2 Baud Rate=9600

Language=U.S.

SER1 Data Format=8/1/N

SER2 Data Format=8/1/N

Sessions=Two

CHOICES

Choices

300   600   1200   2400   4800   **9600**   19200

Select

↑ → ↓ ← : Parameter   Enter/S-Enter   :   Next/Prev Choice   Exit : Pause Key

SESSION

Session 1   Press <Control> <EnterKpd> to Toggle Session

FIGURE 4

ENTER SETUP SCREEN	Press **Ctrl + Scroll Lock**

SELECT MENU	Press **F1 - Prt Scn** *(see pg.9 for DMS Default Setup)*

NAVIGATE PARAMETERS	Press the **Arrow Keys**

| NAVIGATE CHOICES | Press **Enter** or **Spacebar** (moves forward)   **or** |
| | Press **Shift + Enter** (moves backward) |

EXIT SETUP SCREEN	Press the **Pause/Break Key** (when prompted to "Save all", press **Y** key to **Save** or **N** key to **discard**)

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CHANGING THE SERIAL PORT SETTINGS

FIGURE 5A
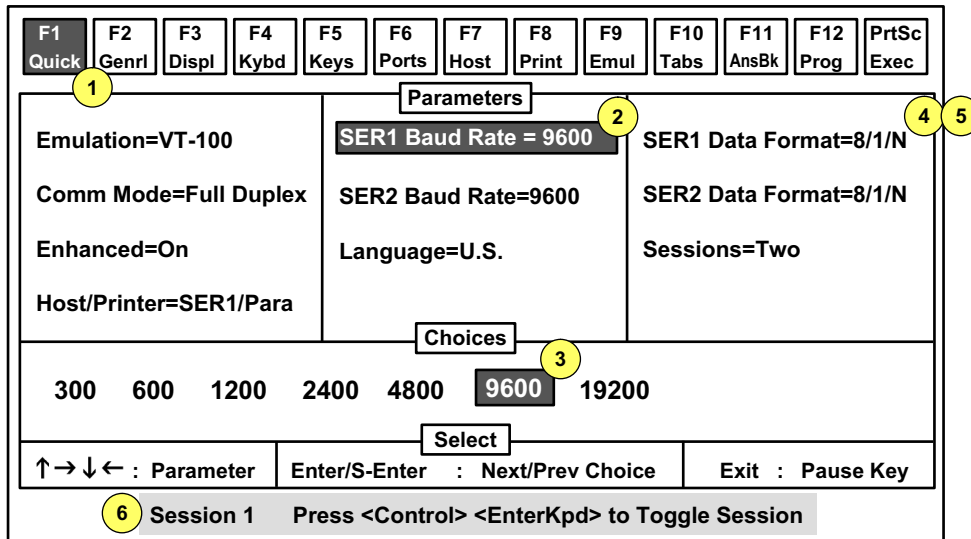
1. Press the **F1** button

FOR SESSION 1

2. Use the **Arrow Keys** to move to **SER1 Baud Rate (SER1 = Serial Port 1)**
3. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (9600 for DMS)
4. Use the **Arrow Keys** to move over to **SER1 Data Format**
5. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (8/1/N for DMS)
6. Press **<Control> <EnterKpd> to Toggle to Session 2** *(see page 2 - "Switching Sessions")*

FIGURE 5B
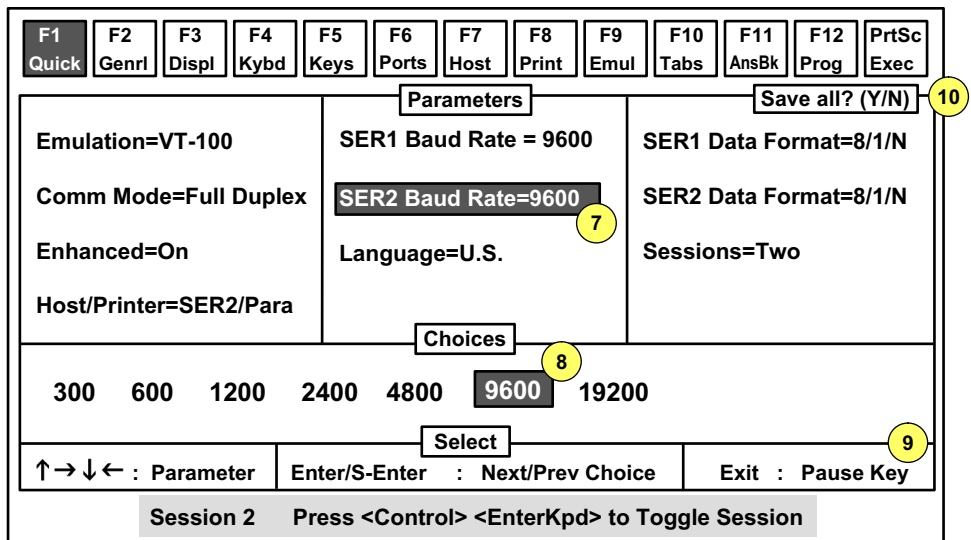
FOR SESSION 2

7. Use the **Arrow Keys** to move to **SER2 Baud Rate (SER2 = Serial Port 2)**
8. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (9600 for DMS)
9. When finished, press the **Pause Key** at the top right of the keyboard
10. When prompted with "**Save all?**", click **Y** to save the new **Parameters**

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CHANGING THE SCREEN DISPLAY TO FULL OR SPLIT SCREEN*

Note: Applies to dual sessions only.

FIGURE 6

| F1 Quick | F2 Genrl | F3 Displ | F4 Kybd | F5 Keys | F6 Ports | F7 Host | F8 Print | F9 Emul | F10 Tabs | F11 AnsBk | F12 Prog | PrtSc Exec |

Parameters

Emulation=VT-100	Enhanced=On	Auto Wrap=Off
Screen Saver=5-min	Auto Page=Off	Auto Scroll=On
Warning Bell=On	Bell Length=350 ms	Bell Volume=5
Host/Printer=SER1/Para	Sessions=Two	Session Display=Split

Choices

Full   Split

Select

↑ → ↓ ← : Parameter   Enter/S-Enter   : Next/Prev Choice   Exit : Pause Key

Session 1   Press <Control> <EnterKpd> to Toggle Session

1. Press the **F2** button
2. Use the **Arrow Keys** to move over to **Session Display**
3. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (Full / Split)

FIGURE 7

| F1 Quick | F2 Genrl | F3 Displ | F4 Kybd | F5 Keys | F6 Ports | F7 Host | F8 Print | F9 Emul | F10 Tabs | F11 AnsBk | F12 Prog | PrtSc Exec |

Save all? (Y/N)

Parameters

Page Length=24	Screen Length=49 Lines	Screen Video=Normal
Display Cursor=On	Cursor=Blink Block	Auto Adjust Cursor=On
Columns=80	Erase Color=Black	Scroll Speed=Full

Choices

26 Lines   49 Lines

Select

↑ → ↓ ← : Parameter   Enter/S-Enter   : Next/Prev Choice   Exit : Pause Key

Session 1   Press <Control> <EnterKpd> to Toggle Session

4. Press the **F3** button
5. Use the **Arrow Keys** to move over to **Screen Length**
6. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (49 Lines for Split Screen)
                                                             (26 Lines for Full Screen)
7. When finished, press the **Pause Key** at the top right of the keyboard
8. When prompted with "**Save all?**", click **Y** to save the new **Parameter**
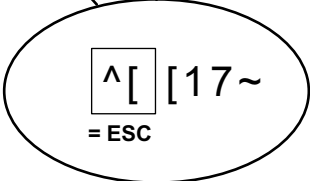
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PROGRAMMING FUNCTION KEYS*

*Each function key has (4) programmable registers per session such as **F/key, sh-F/key, ctrl-F/key & ctrl-sh-F/key**
(These can be selected from the "Choices" located in the "**Program**" Parameter)*

FIGURE 8
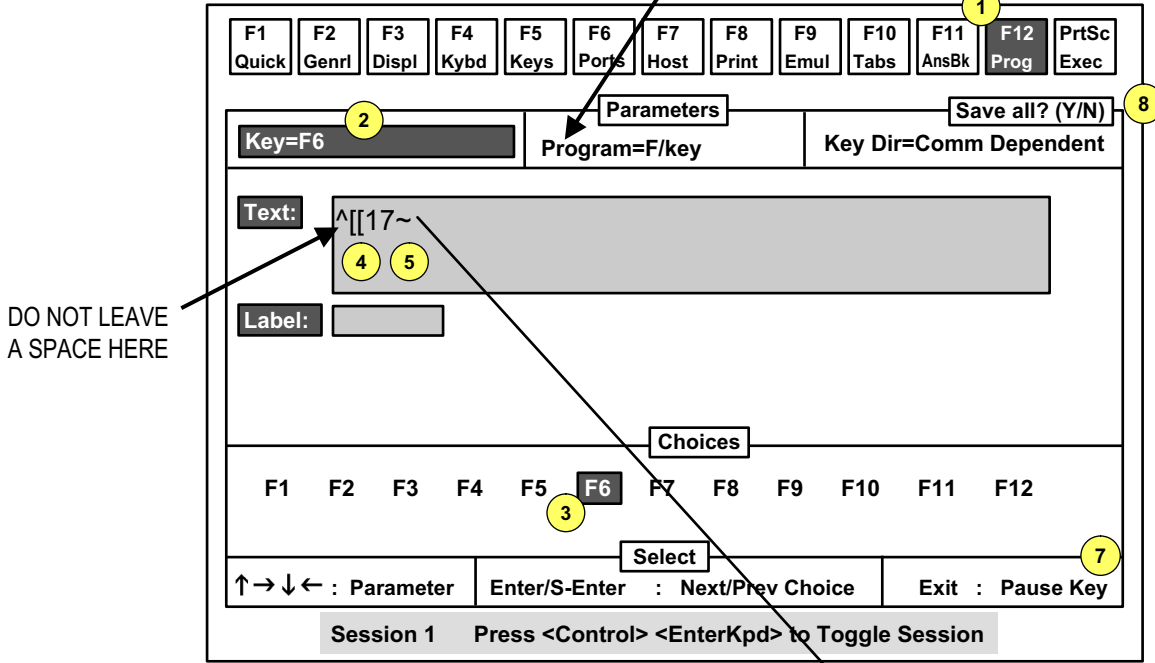
DO NOT LEAVE
A SPACE HERE

^[[17~
= ESC

Note:
For ^ press Shift+6

1. Press the **F12** button

2. The curser will appear in the "Key" Field with F1 as the default **(<u>DO NOT</u> change F1-F4)**

3. Select a new function key to program by pressing **Enter** or **Spacebar** until the correct **Choice** is highlighted (for example choose F6)

4. Arrow down to move to the "Text" Field

5. Type in the "Function" for the key.   *CAUTION: The first character in the Text Field cannot be left blank*

   Example: To program **ESC[17~**   Type: **Shift+6** **[[17** **Shift+`**   = (**^[[17~**)

6. To program another function, arrow back up to the "Key" Field & repeat steps 3-5

7. When finished, press the **Pause Key** at the top right of the keyboard

8. When prompted with "**Save all?**", click **Y** to save the new **Parameter**
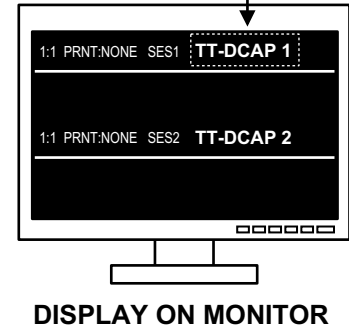
<u>DO NOT CHANGE THE FUNCTIONS OF F1, F2, F3 & F4</u>

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CHANGING THE SCREEN TITLE

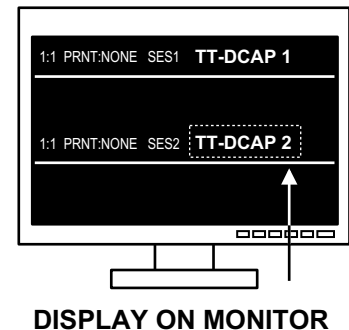*Note: This will change the title at the top of each Session.*

FIGURE 9A

F1 Quick	F2 Genrl	F3 Displ	F4 Kybd	F5 Keys	F6 Ports	F7 Host	F8 Print	F9 Emul	F10 Tabs	**F11 AnsBk**	F12 Prog	PrtSc Exec

Parameters

Answerback Mode=Off   Answerback Conceal

Answerback Message:

Screen Title: TT-DCAP 1_

Choices

<Backspace> : Delete Character   <Shift><Backspace> : Default Field

Select

↑ → ↓ ← : Parameter | Enter/S-Enter   :   Next/Prev Choice | Exit : Pause Key

Session 1   Press <Control> <EnterKpd> to Toggle Session

Display on Monitor:
1:1 PRNT:NONE SES1 **TT-DCAP 1**
1:1 PRNT:NONE SES2 **TT-DCAP 2**

DISPLAY ON MONITOR

1. Press the **F11** button

FOR SESSION 1
2. Use the **Arrow Keys** to move the curser down to **Screen Title**
3. Type in a Title for Session 1 (Example: TT-DCAP 1)
4. Press **<Control> <EnterKpd> to Toggle to Session 2** *(see page 2 - "Switching Sessions")*

FIGURE 9B

F1 Quick	F2 Genrl	F3 Displ	F4 Kybd	F5 Keys	F6 Ports	F7 Host	F8 Print	F9 Emul	F10 Tabs	**F11 AnsBk**	F12 Prog	PrtSc Exec

Parameters   **Save all? (Y/N)**

Answerback Mode=Off   Answerback Conceal

Answerback Message:

Screen Title: TT-DCAP 2_

Choices

<Backspace> : Delete Character   <Shift><Backspace> : Default Field

Select

↑ → ↓ ← : Parameter | Enter/S-Enter   :   Next/Prev Choice | Exit : Pause Key

Session 2   Press <Control> <EnterKpd> to Toggle Session

Display on Monitor:
1:1 PRNT:NONE SES1 **TT-DCAP 1**
1:1 PRNT:NONE SES2 **TT-DCAP 2**

DISPLAY ON MONITOR

FOR SESSION 2
5. Use the **Arrow Keys** to move the curser down to **Screen Title**
6. Type in a Title for Session 2 (Example: TT-DCAP 2)
7. When finished, press the **Pause Key** at the top right of the keyboard
8. When prompted with "**Save all?**", click **Y** to save the new **Parameters**

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DMS DEFAULT SETTINGS*

Note: Items in **Bold** may require Local Settings.

***Note:** When using Dual Sessions, parameters must be set for both sessions.*

FIGURE 10

Menu	Key	Parameters Available (Not all will display for a given emulation, keyboard, or video mode)		
Quick	**F1**	Emulation = VT-100 Comm Mode = Full Duplex Enhanced = On Host/Printer = SER1/Para SER2/Para	**SER1 Baud Rate = 9600** **SER2 Baud Rate = 9600** Language = U.S.	**SER1 Data Format = 8/1/N** **SER2 Data Format = 8/1/N** Sessions = Two
General	**F2**	Emulation = VT-100 Screen Saver = 5-min Warning Bell = On Host/Printer = SER1/Para SER2/Para	Enhanced = On Auto Page = Off Bell Length = 350 ms Sessions = Two	Auto Wrap = Off Auto Scroll = On Bell Volume = 5 Session Display=Split
Display	**F3**	Page Length = 24 Display Cursor = On Columns = 80	Screen Length = 49 Lines Cursor = Blink Block Erase Color = Black	Screen Video = Normal Auto Adjust Cursor = On Scroll Speed = Full
Keyboard	**F4**	Language = U.S. Key Click = On Num Lock = Toggle	Char Set Mode = ANSI Key Repeat = On Key Lock = Reverse	Margin Bell = Off Key Rate = 20 cps Caps Lock = Toggle
Keys	**F5**	Enter Key = <CR> Alt Key = Compose UDKS = Emul Dependent	Return Key = <CR> Disconnect = Pause	Backspace = <BS>/<DEL> Return Key Repeat = Off
Ports	**F6**	SER1 Baud Rate = 9600 SER2 Baud Rate = 9600 SER1 Xmt = Xon-Xoff SER2 Xmt = Xon-Xoff SER1 Break = 250 ms SER2 Break = 250 ms	SER1 Data Format = 8/1/N SER2 Data Format = 8/1/N SER1 Recv = Xon-Xoff(XPC) SER2 Recv = Xon-Xoff(XPC) SER1 Modem Control = Off SER2 Modem Control = Off	SER1 Parity Check = Off SER2 Parity Check = Off SER1 Xmt Pace = Baud SER2 Xmt Pace = Baud SER1 Disconnect = 2 sec SER2 Disconnect = 2 sec
Host	**F7**	Comm Mode = Full Duplex Recv <DEL> = Ignore Send Region = Screen	Local = Off Null Suppress = On Send End = Region	Recv <CR> = <CR> Send Block Term = None
Print	**F8**	Prnt Mode = Normal	Prnt Region = Screen	Prnt Block = None
Emulation	**F9**	Numeric Kpd = Numeric ANSI-ID = VT320 Status Line = Indicator	Cursor Kpd = Cursor Feature Lock = Off	Send Data = All Function Key Lock = Off
Tabs	**F10**	Auto Init Tabs = Off	Default Tabs	
Answerback	**F11**	Answerback Mode = Off	Answerback Conceal	
Program	**F12**	Key = F1	Program = F/Key	Key Dir = Comm Dependent
Execute	**Prt Sc**	Save Terminal Save Session Reset Terminal Clear Screen Terminal Version	Recall Terminal Recall Session Reset Session Default Session UDKS	Default Terminal Default Session Reset Ports Update Terminal
Exit Setup	**Pause**	Save all? (Y/N)		

SER1 = SERIAL PORT 1   SER2 = SERIAL PORT 2

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NOTES & TIPS

NOTES & TIPS   DMS CURRENT LOOP INSTALLATION NOTES

IF YOU HAVE:

FLAT DEC CONNECTOR FROM THE SWITCH

- USE 400725SB2 CURRENT LOOP ADAPTERS

FIGURE 11
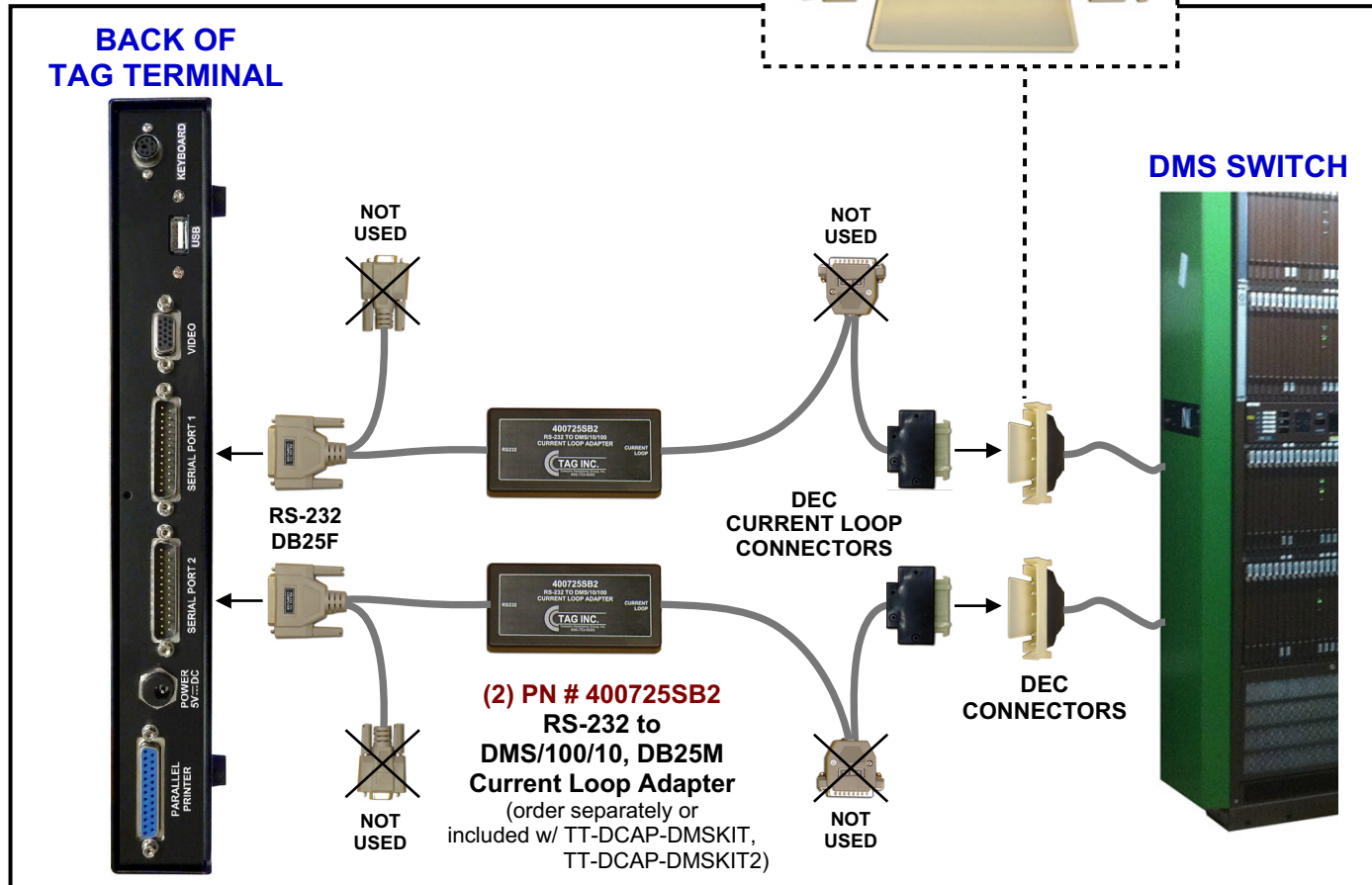
BACK OF TAG TERMINAL

DMS SWITCH

KEYBOARD

USB

VIDEO

SERIAL PORT 1

NOT USED

NOT USED

400725SB2
RS-232 TO DMS/100/10
CURRENT LOOP ADAPTER

RS232   CURRENT LOOP

TAG INC.

RS-232
DB25F

DEC CURRENT LOOP CONNECTORS

SERIAL PORT 2

400725SB2
RS-232 TO DMS/100/10
CURRENT LOOP ADAPTER

RS232   CURRENT LOOP

TAG INC.

POWER 5V DC

PARALLEL PRINTER

NOT USED

(2) PN # 400725SB2
RS-232 to DMS/100/10, DB25M Current Loop Adapter
(order separately or included w/ TT-DCAP-DMSKIT, TT-DCAP-DMSKIT2)

NOT USED

DEC CONNECTORS

150 Cooper Rd. (F-15)
W. Berlin, NJ 08091

www.tagcords.com
Telecom Assistance Group

Telephone: (856) 753-8585
Fax : (856) 768-7645

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NOTES & TIPS

DMS CURRENT LOOP INSTALLATION NOTES

IF YOU HAVE:

A CURRENT LOOP TO MMJ ADAPTER FROM THE SWITCH

- USE THE 400725SB2 CURRENT LOOP ADAPTERS

FIGURE 12

1 CURRENT LOOP TO MMJ ADAPTER

DB25F FROM DMS SWITCH

2 **REMOVE** CURRENT LOOP TO MMJ ADAPTER

DB25F FROM DMS SWITCH

BACK OF TAG TERMINAL

3 CONNECT DB25F FROM DMS SWITCH TO DB25M ON PN # 400725SB2

DMS SWITCH

NOT USED

(2) PN # 400725SB2
RS-232 to DMS/100/10, DB25M Current Loop Adapter
(order separately or included w/ TT-DCAP-DMSKIT, TT-DCAP-DMSKIT2)

NOT USED

KEYBOARD

USB

VIDEO

SERIAL PORT 1

400725SB2
RS-232 TO DMS/10/100
CURRENT LOOP ADAPTER
CURRENT LOOP
TAG INC.
RS232

DB25M

DB25F FROM DMS SWITCH

RS-232 DB25F

SERIAL PORT 2

400725SB2
RS-232 TO DMS/10/100
CURRENT LOOP ADAPTER
CURRENT LOOP
TAG INC.
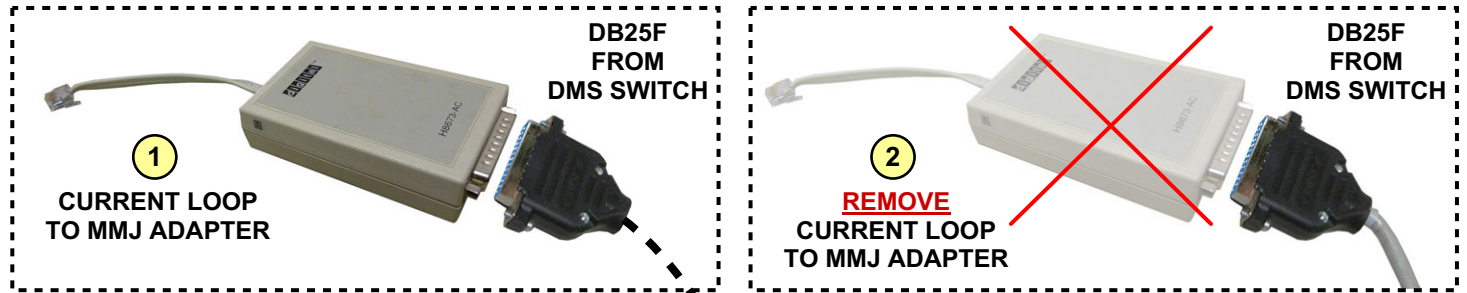RS232

POWER 5V=DC

PARALLEL PRINTER

NOT USED

NOT USED

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W. Berlin, NJ 08091

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Fax :   (856) 768-7645

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NOTES & TIPS

DMS CURRENT LOOP INSTALLATION NOTES

IF YOU HAVE:

**BARE WIRE FROM THE SWITCH
OR A BROKEN CONNECTOR**

- USE THE 400725SB2
CURRENT LOOP ADAPTERS
w/ THE 400725SBW HARDWIRE ADAPTERS

WIRING DETAIL*:

T+	ORANGE / WHITE — **PAIR**
T-	WHITE / ORANGE
R+	WHITE / BLUE — **PAIR**
R-	BLUE / WHITE

* Most common - Colors may vary

If colors are different, - __DO NOT__ SEPERATE PAIRED WIRES

FIGURE 13

**BACK OF
TAG TERMINAL**

KEYBOARD
USB
VIDEO
SERIAL PORT 1
SERIAL PORT 2
POWER 5V⎓DC
PARALLEL PRINTER

NOT USED

NOT USED

NOT USED

NOT USED

**RS-232
DB25F**

DB25M

DMS SWITCH

BARE WIRE

**(2) PN # 400725SB2
RS-232 to
DMS/100/10, DB25M
Current Loop Adapter**
(order separately or
included w/ TT-DCAP-DMSKIT,
TT-DCAP-DMSKIT2)

**(2) PN # 400725SBW
Hardwire Adapter
for 400725SB2**
(order separately or
included w/
TT-DCAP-DMSKIT2)

400725SB2
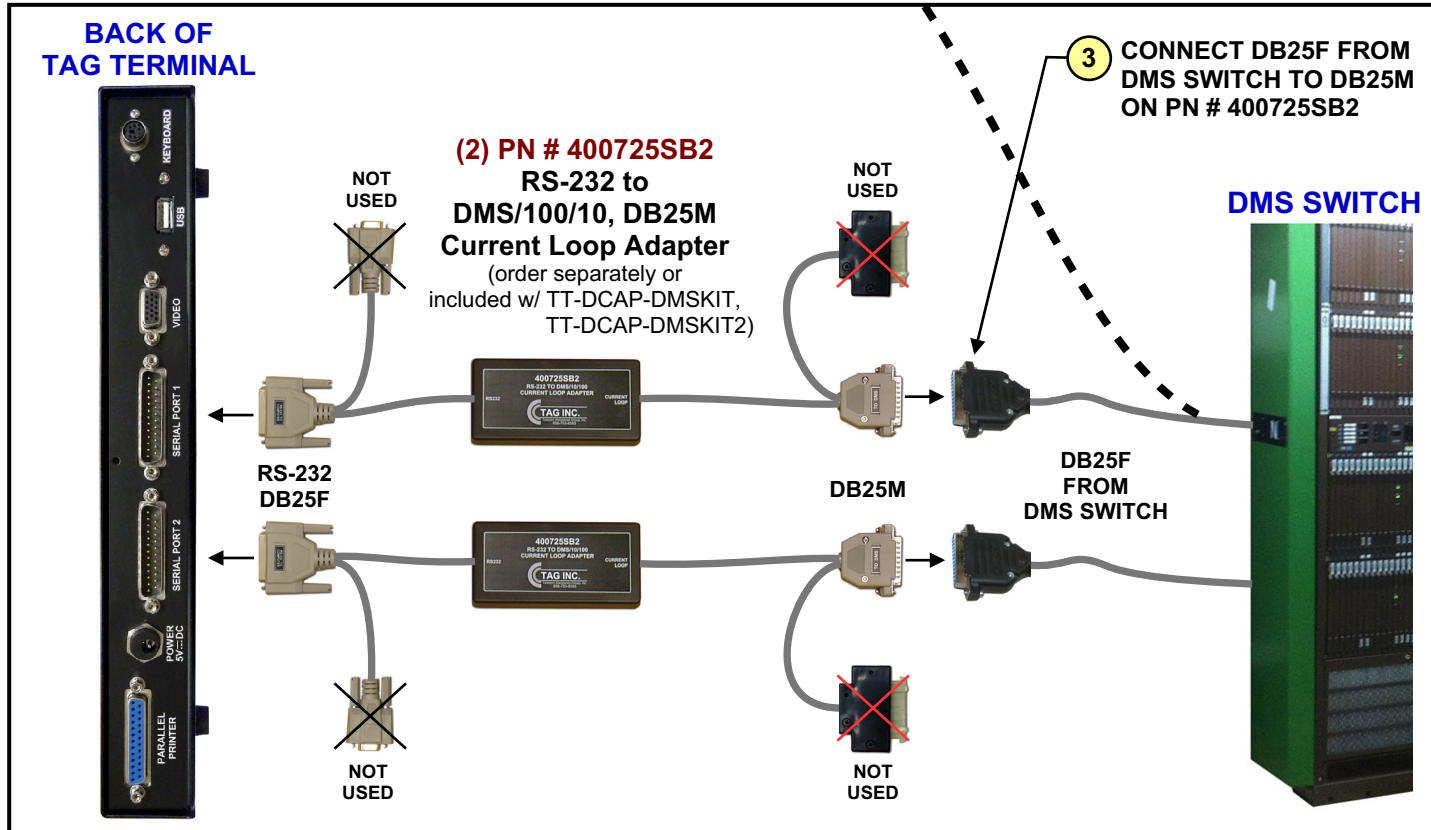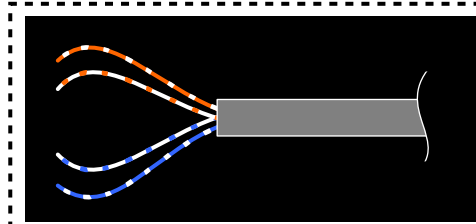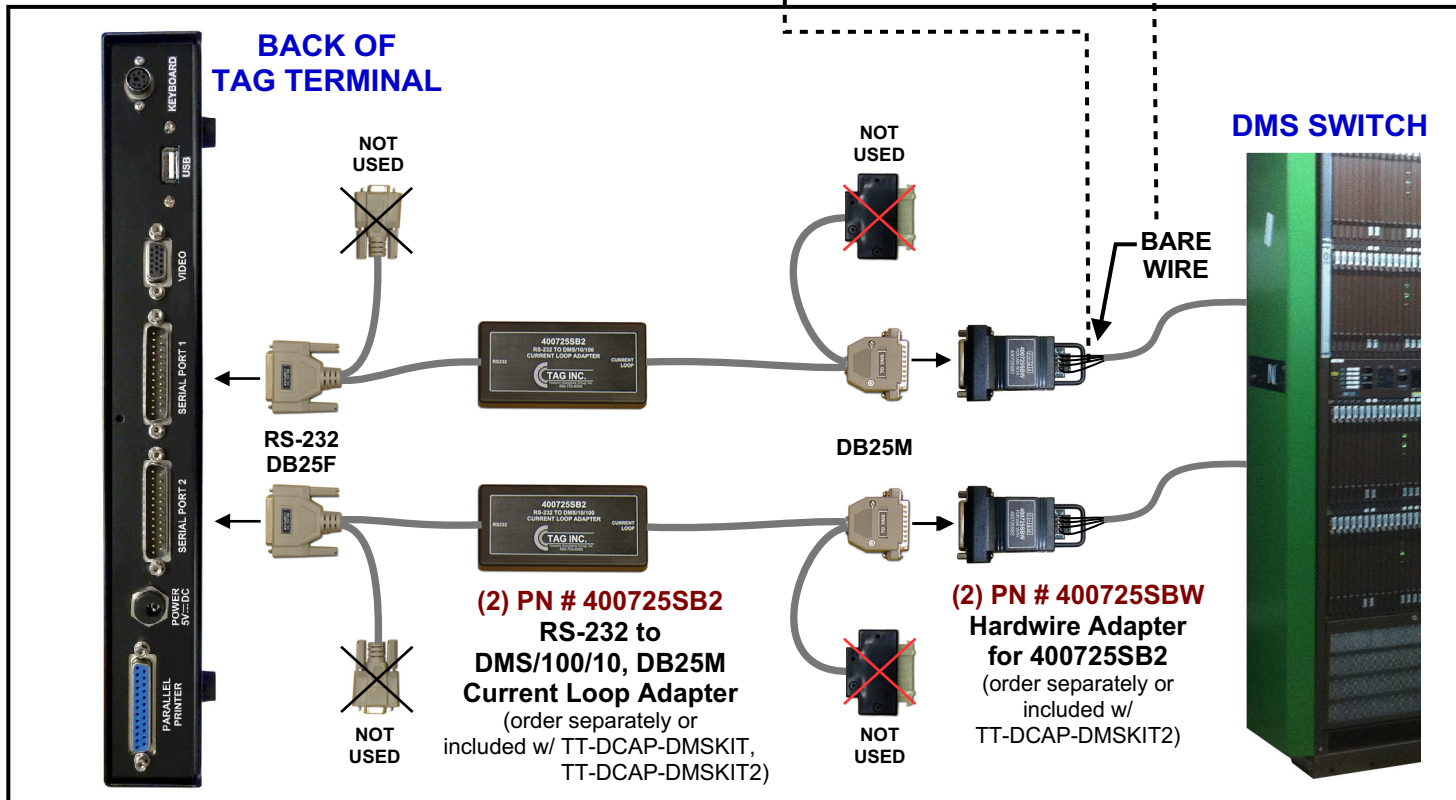RS-232 TO DMS/10/100
CURRENT LOOP ADAPTER
TAG INC.
RS232   CURRENT LOOP

150 Cooper Rd. (F-15)
W. Berlin, NJ 08091

www.tagcords.com
Telecom Assistance Group

Telephone: (856) 753-8585
Fax : (856) 768-7645

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NOTES & TIPS   DMS CURRENT LOOP INSTALLATION NOTES

CURRENT LOOP PAIR DETERMINATION:

(1) SET VOLT-OHM METER TO DCV SETTING
(WITH THE WIRES DISCONNECTED)

(2) CONNECT THE (+) RED PROBE TO THE ORANGE / WHITE WIRE
& THE (-) BLACK PROBE TO THE WHITE / ORANGE WIRE

(3) COMPARE THE READINGS & POLARITIES (AS SHOWN BELOW)
(VOLTAGES SHOWN ARE APPROXIMATE & ACTUAL VALUES MAY BE DIFFERENT)

(4) REPEAT STEPS 2 & 3 FOR
THE WHITE / BLUE PAIR

(5) NOTE: RECEIVE PAIR VOLTAGE
IS SLIGHTLY LOWER THAN
TRANSMIT PAIR VOLTAGE

(6) ATTACH THE WIRES TO
PN # 400725SBW ACCORDING
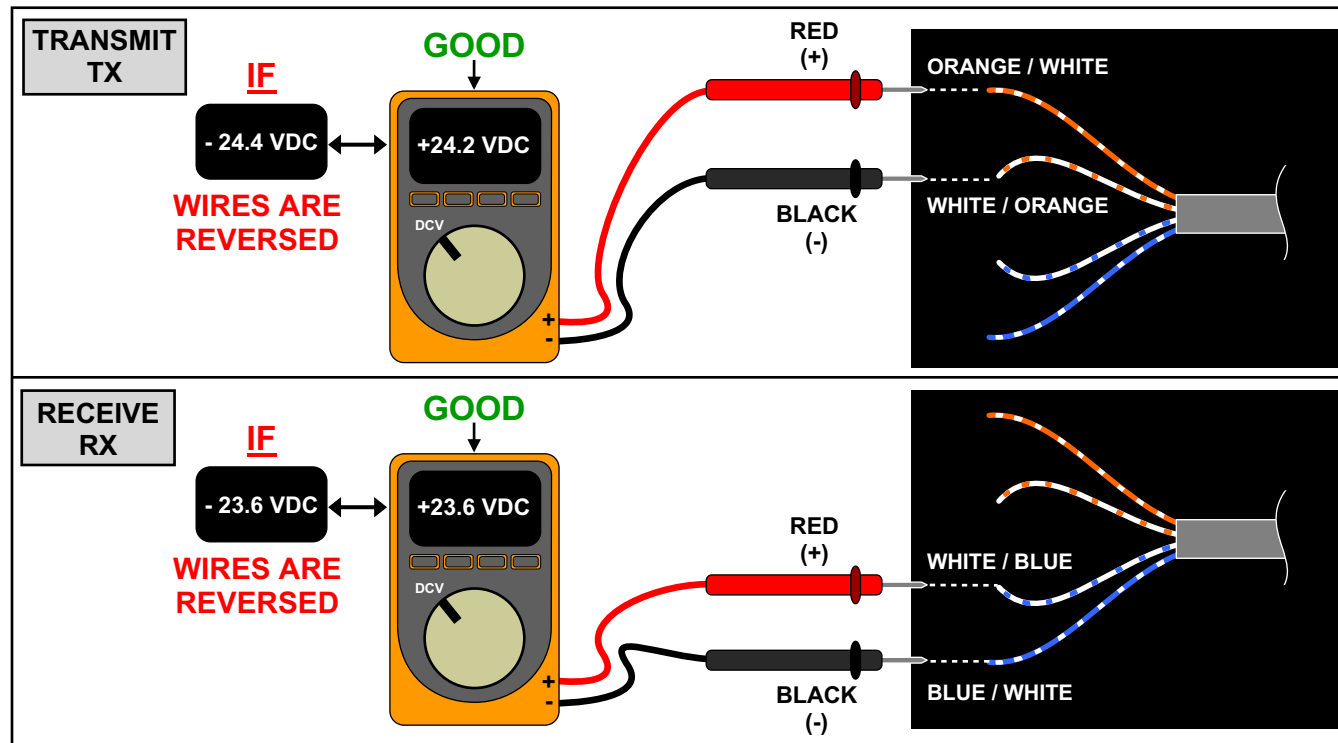TO THE POLARITY FOUND IN
THE WIRING DETAIL

- TRANSMIT (+) TO T+
- TRANSMIT (-) TO T-
- RECEIVE (+)   TO R+
- RECEIVE (-)   TO R-

WIRING DETAIL*:

T+	ORANGE / WHITE	PAIR
T-	WHITE / ORANGE	
R+	WHITE / BLUE	PAIR
R-	BLUE / WHITE	

* Most common - Colors may vary

If colors are different, - <u>DO NOT</u> SEPERATE PAIRED WIRES

FIGURE 14

TRANSMIT TX

GOOD

IF - 24.4 VDC ↔ +24.2 VDC

WIRES ARE REVERSED

DCV

RED (+) ORANGE / WHITE
BLACK (-) WHITE / ORANGE

RECEIVE RX

GOOD

IF - 23.6 VDC ↔ +23.6 VDC

WIRES ARE REVERSED

DCV

RED (+) WHITE / BLUE
BLACK (-) BLUE / WHITE

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Fax : (856) 768-7645

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NOTES & TIPS

DMS CURRENT LOOP INSTALLATION NOTES

IF YOU HAVE:

AN EXISTING TERMINAL w/ DB25 CONNECTOR

- USE THE 400725LB

FIGURE 15

BACK OF TAG TERMINAL

RD (GREEN)

DSR (RED)

CTS (RED)
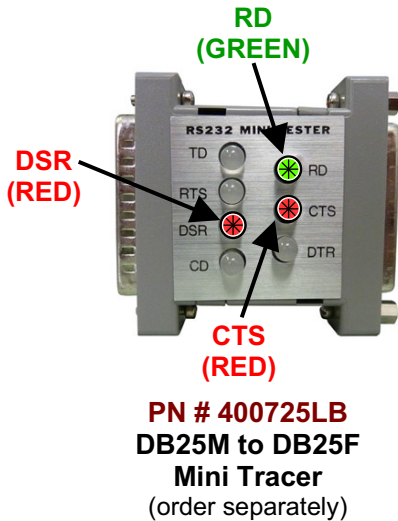
1 TO DETERMINE IF THE CABLE FROM THE DMS SWITCH IS RS232, USE PN # 400725LB MINI TRACER

DB25

PN # 400725LB DB25M to DB25F Mini Tracer (order separately)
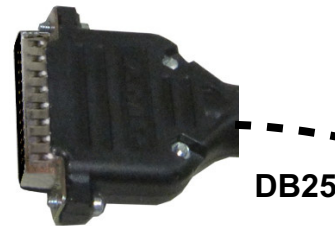
2 - IF THE TRACER LIGHTS AS SHOWN, THE CABLE **IS** RS232. CONTINUE TO INSTALL - SEE STEP 3.

- IF RS232 **IS NOT** PRESENT, CALL TAG FOR ASSISTANCE @ 856-753-8585

DMS SWITCH

DB25 (RS-232) FROM DMS SWITCH

(2) PN # 400700 DB25F Gender Changer (INCLUDED - IF NEEDED)

3 IF RS232 **IS** PRESENT, CONNECT THE DB25 TO THE BACK OF THE TERMINAL.

IF NECESSARY, USE THE SUPPLIED GENDER CHANGERS (PN # 400700).

150 Cooper Rd. (F-15)
W. Berlin, NJ 08091

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Fax : (856) 768-7645

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NOTES & TIPS   UPGRADED IOM INSTALLATION NOTES

FIGURE 16

**BACK OF
TAG TERMINAL**

DMS SWITCH

*CUSTOMER
SUPPLIED

PN # 400725NTFX
DB25F
Null Adapter Cable, (2')

NORTEL NTFX34AA*
(IOM TO 232 ADAPTER)

<u>DO NOT</u> UNPLUG
(SEE PAGE 17)

**SER1:
SERIAL PORT 1
(MAP - SESSION 1)**

**MAP
PORT**

**SER2:
SERIAL PORT 2
(RTIF - SESSION 2)**

**RS-232
DB25F**

400725SB2
RS-232 TO DMS10/100
CURRENT LOOP ADAPTER

**RTIF
PORT**

**NOT
USED**

PN # 400725SB2
RS-232 to
DMS/100/10, DB25M
Current Loop Adapter

**DB25F
FROM
CS2K
SWITCH**

**NOT
USED**

Preferred IOM terminal configuration:

SESSION 1 - MAP
SESSION 2 - RTIF

<u>**NOTES**</u>**:**
SETUP SAME AS DMS BUT WITH HARDWARE HANDSHAKE
   -SOME RTIF APPLICATIONS DO NOT NEED CURRENT LOOP ADAPTER (PN # 400725SB2)
   - HANDSHAKE COULD BE NONE
   - BAUD 2400 TO 9600
   - WHEN ATTACHING THE MAP TERMINAL (NEW OR OLD), THE PORT NEEDS TO BE DEACTIVATED AND
     REACTIVATED TO START OPERATION. THIS IS DONE FROM THE REMOTE COMMAND (NETWORK ACCESS) TERMINAL

NOTES & TIPS   UPGRADED IOM INSTALLATION NOTES

* WARNING *

DO NOT UNPLUG THE RJ48 CABLE FROM THE NORTEL ADAPTER.

 - IF IT IS NECESSARY TO DISCONNECT THIS CABLE, THE ADAPTER WILL
   LOSE ITS SET UP INFORMATION. FOLLOW THE STEPS BELOW TO
   RESTART THE ADAPTER (PORT).

TO RE-SYNC THE NORTEL NTFX34AA* ADAPTER -
THE FOLLOWING SWITCH SETUP STEPS MAY BE HELPFUL:

  1. BUSY PORT
  2. TAKE OFFLINE
  3. BUSY PORT AGAIN
  4. THEN "RTS" THE PORT

THIS SHOULD RE-ACTIVATE THE MAP TERMINAL.

NOTE: THE GREEN LIGHT ON THE NORTEL NTFX34AA ADAPTER SHOULD BE <u>ON</u>.

*NTFX34AA ADAPTER IS CUSTOMER SUPPLIED

GREEN LIGHT

150 Cooper Rd. (F-15)   *www.tagcords.com*   Telephone: (856) 753-8585
W. Berlin, NJ 08091   **Telecom Assistance Group**   Fax : (856) 768-7645