

TT-DCAPSS Quick Guide

QUICK GUIDE FOR NORTEL CS2K SOFTSWITCH (DUAL SESSION) SWITCH ACCESS TERMINALS PN # TT-SSRTM-KIT1

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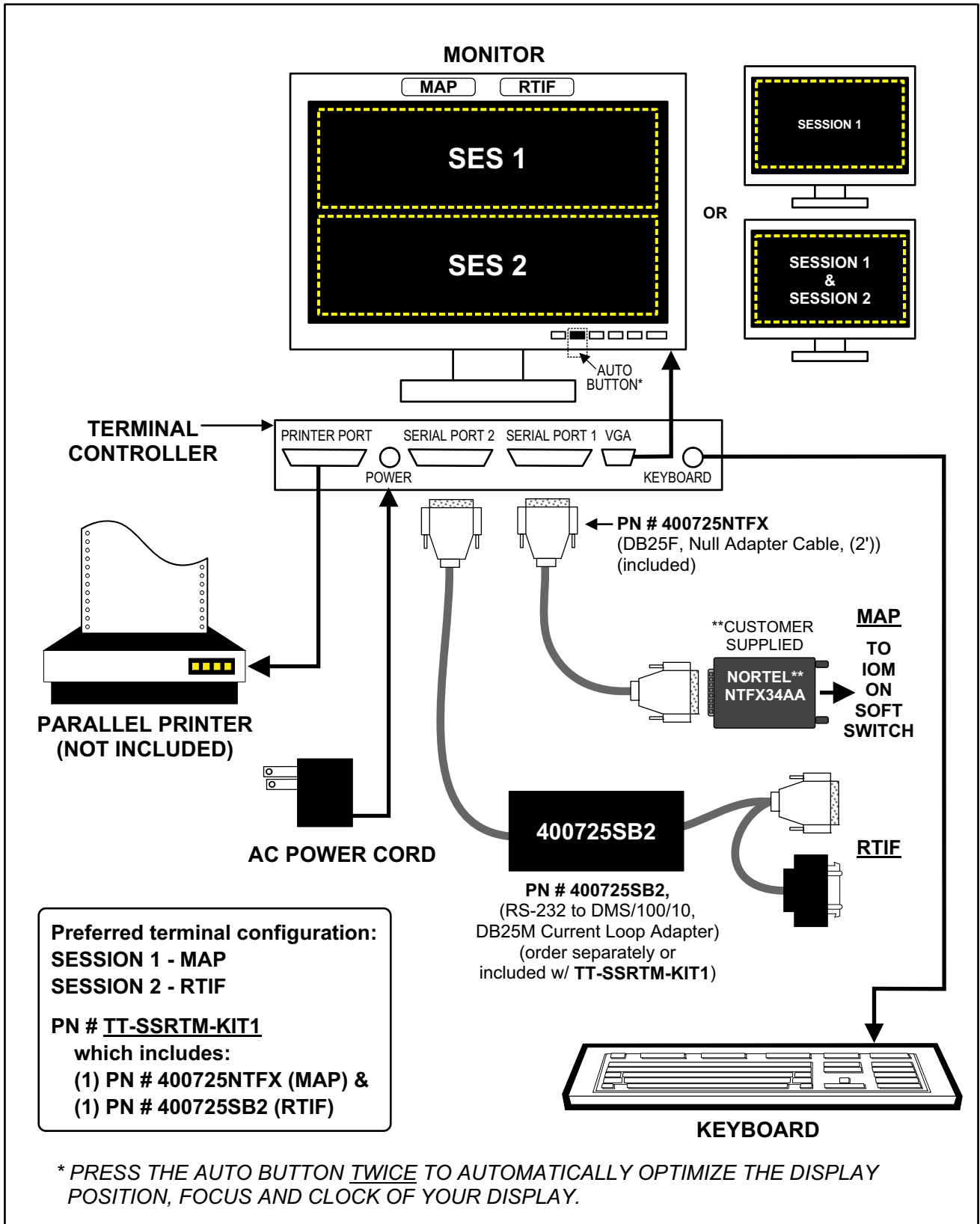
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TT-SSRTM-KIT1 TERMINAL KIT CONFIGURATION FOR NORTEL - CS2K SOFTSWITCH ACCESS

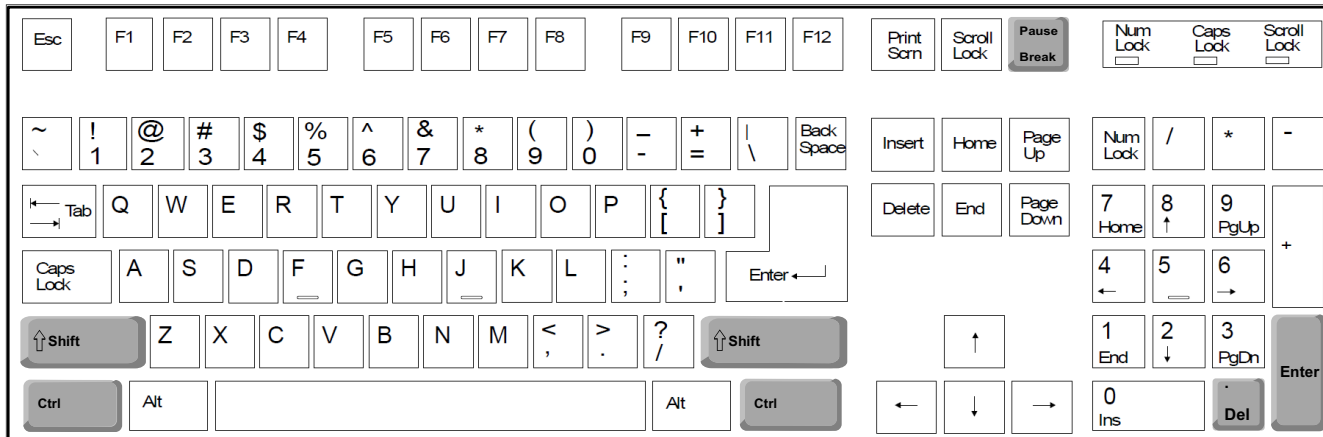
FIGURE 1

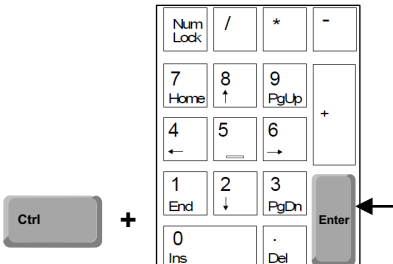
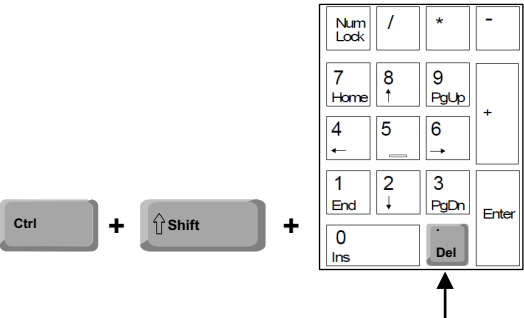



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TERMINAL COMMAND KEYS

FIGURE 2



<p>SWITCH SESSIONS (for dual sessions only)</p>	<p>Press Ctrl + Enter (Enter on the Number Pad)</p> 
<p>PRINT</p>	<p>Press Ctrl + Shift + . (Decimal on the Number Pad)</p> 
<p>SEND BREAK</p>	<p>Press Ctrl + Pause/Break Key</p> 

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GENERAL SETTINGS NOTE

Terminals are supplied pre-configured for the Nortel CS2K Soft Switch with Session 1 set to MAP & Session 2 set to RTIF. 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

The screenshot shows the Terminal Setup screen with the following elements:

- Function Keys:** 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, Comm Mode=Full Duplex, Enhanced=On, Host/Printer=SER1/Para.
- Choices:** SER1 Baud Rate = 4800, SER2 Baud Rate=9600, Language=U.S.
- Save all? (Y/N):** SER1 Data Format=8/1/N, SER2 Data Format=8/1/N, Sessions=Two.
- Navigation:**
 - 300 600 1200 2400 **4800** 9600 19200
 - ↑ → ↓ ← : Parameter Enter/S-Enter : Next/Prev Choice Exit : Pause Key
- Session:** Session 1 Press <Control> <EnterKpd> to Toggle Session

FIGURE 4

The diagram shows a standard keyboard layout with the following keys highlighted:

- Function keys: F1 through F12.
- Navigation keys: Arrow keys (Up, Down, Left, Right), Home, End, Page Up, Page Down.
- Control keys: Ctrl, Alt, Shift, Enter, Space, Tab, Caps Lock, Num Lock, Scroll Lock, Pause Break.
- Other keys: Esc, ~, !@#\$,%^&*()_+={}[]\|/, Back Space, Insert, Delete, Home, End, Page Up, Page Down, Num Lock, / * -, 7 Home 8 ↑ 9 PgUp, 4 ← 5 _ 6 →, 1 End 2 ↓ 3 PgDn, 0 Ins . Del, Enter.

ENTER SETUP SCREEN	Press Ctrl + Scroll Lock
SELECT MENU	Press F1 - Prt Scn <i>(see pgs. 9 (MAP) & 10 (RTIF) for CS2K Default Setups)</i>
NAVIGATE PARAMETERS	Press the Arrow Keys
NAVIGATE CHOICES	Press Enter or Spacebar (moves forward)
	Press Shift + Enter (moves backward)
EXIT SETUP SCREEN	Press the Pause 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

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		
Emulation=VT-100				Parameters				SER1 Baud Rate=4800					SER1 Data Format=8/1/N	
Comm Mode=Full Duplex				SER2 Baud Rate=9600				SER2 Data Format=8/1/N					Sessions=Two	
Enhanced=On				Language=U.S.										
Host/Printer=SER1/Para				Choices										
				300 600 1200 2400 4800 9600 19200										
				Select										
↑ → ↓ ← : Parameter				Enter/S-Enter : Next/Prev Choice				Exit : Pause Key						
6				Session 1 Press <Control> <EnterKpd> to Toggle Session										

1. Press the F1 button
- FOR SESSION 1 - MAP TERMINAL**
2. Use the **Arrow Keys** to move to **SER1 Baud Rate (SER1 = Serial Port 1 (MAP))**
 3. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (4800 for CS2K MAP Terminals)
 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 NORTEL - CS2K)
 6. Press **<Control> <EnterKpd> to Toggle to Session 2** (see page 2 - "Switching Sessions")

FIGURE 5B

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		
Emulation=VT-100				Parameters				SER1 Baud Rate=4800					Save all? (Y/N)	
Comm Mode=Full Duplex				SER2 Baud Rate=9600				SER2 Data Format=8/1/N						
Enhanced=On				Language=U.S.									Sessions=Two	
Host/Printer=SER2/Para				Choices										
				300 600 1200 2400 4800 9600 19200										
				Select										
↑ → ↓ ← : Parameter				Enter/S-Enter : Next/Prev Choice				Exit : Pause Key						
9				Session 2 Press <Control> <EnterKpd> to Toggle Session									10	

- FOR SESSION 2 - RTIF TERMINAL**
7. Use the **Arrow Keys** to move to **SER2 Baud Rate (SER2 = Serial Port 2 (RTIF))**
 8. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (9600 for CS2K RTIF Terminals)
 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

For TT-SSRTM-KIT1

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 Screen Saver=5-min Warning Bell=On Host/Printer=SER1/Para				Enhanced=On Auto Page=Off Bell Length=350 ms Sessions=Two				Auto Wrap=Off Auto Scroll=On Bell Volume=5 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
Parameters											Save all? (Y/N)	
Page Length=24 Display Cursor=On Columns=80			Screen Length=49 Lines Cursor=Steady Block Erase Color=Black				Screen Video=Normal Auto Adjust Cursor=On 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												

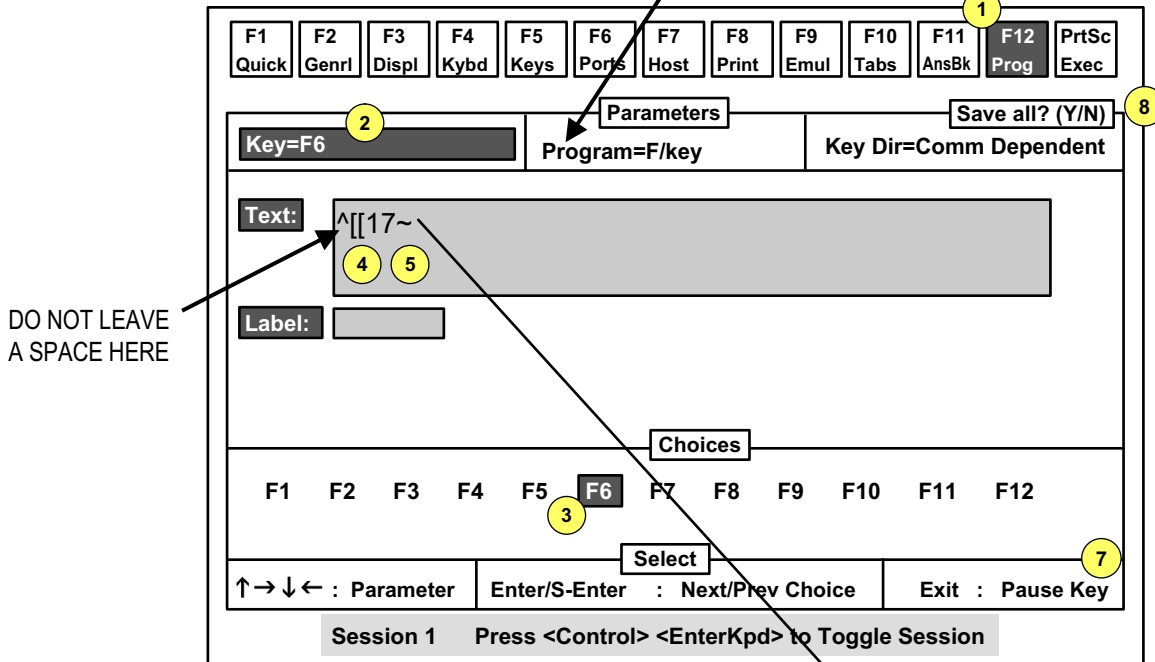
4. Press the **F3** button
5. Use the **Arrow Keys** to move over to **Screen Length**
6. Press **Enter** or **Spacebar** until the correct **Choice** is highlighted (49 Lines for Split Screen) (26 Lines for Full Screen)
7. **When finished**, press the **Pause Key** at the top right of the keyboard
8. 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



1. Press the **F12** button
2. The cursor will appear in the "Key" Field with F1 as the default (**DO NOT** 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**

DO NOT CHANGE THE FUNCTIONS OF F1, F2, F3 & F4

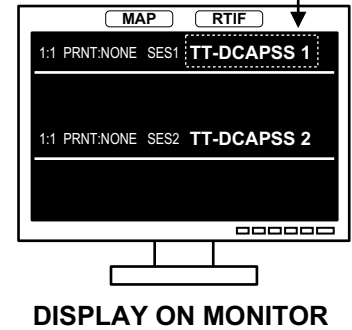
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CHANGING THE SCREEN TITLE

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

FIGURE 9A

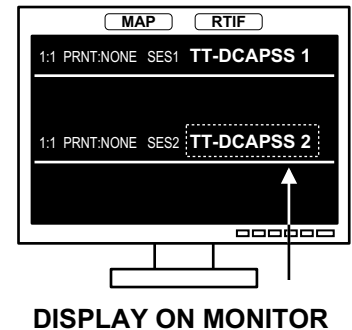
F1 Quick	F2 Genrl	F3 Displ	F4 Kybd	F5 Keys	F6 Ports	F7 Host	F8 Print	F9 Emul	F10 Tabs	F11 AnsBk	F12 Prog	PrtSc Exec
Parameters												
Answerback Mode=Off				Answerback Conceal								
Answerback Message: <input style="width: 90%;" type="text"/>												
Screen Title: <input style="width: 90%;" type="text" value="TT-DCAPSS 1_"/>												
Choices												
<Backspace> : Delete Character <Shift><Backspace> : Default Field												
Select												
↑→↓← : Parameter				Enter/S-Enter : Next/Prev Choice				Exit : Pause Key				
4 Session 1 Press <Control> <EnterKpd> to Toggle Session												



1. Press the **F11** button
- FOR SESSION 1**
2. Use the **Arrow Keys** to move the cursor down to **Screen Title**
3. Type in a Title for Session 1 (Example: TT-DCAPSS 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											8 Save all? (Y/N)	
Answerback Mode=Off				Answerback Conceal								
Answerback Message: <input style="width: 90%;" type="text"/>												
Screen Title: <input style="width: 90%;" type="text" value="TT-DCAPSS 2_"/>												
Choices												
<Backspace> : Delete Character <Shift><Backspace> : Default Field												
Select												
↑→↓← : Parameter				Enter/S-Enter : Next/Prev Choice				7 Exit : Pause Key				
Session 2 Press <Control> <EnterKpd> to Toggle Session												



- FOR SESSION 2**
5. Use the **Arrow Keys** to move the cursor down to **Screen Title**
6. Type in a Title for Session 2 (Example: TT-DCAPSS 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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NORTEL - CS2K DEFAULT SETUP* FOR MAP** TERMINALS - SESSION 1

Note: The settings that may need to change for your CS2K MAP terminal are shown in **Bold**.

***Note:** When using Dual Sessions, parameters must be set for both sessions (see FIGURE 11).

****CUSTOMER SUPPLIED NORTEL NTFX34AA ADAPTER IS REQUIRED FOR MAP TERMINALS**

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	SER1 Baud Rate = 4800 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	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>/<BS> Return Key Repeat = Off
Ports	F6	SER1 Baud Rate = 4800 SER2 Baud Rate = 9600 SER1 Xmt = DSR 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 = DTR 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 = 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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NORTEL - CS2K DEFAULT SETUP* FOR RTIF** TERMINALS - SESSION 2

Note: The settings that may need to change for your CS2K RTIF terminal are shown in **Bold**.

***Note:** When using Dual Sessions, parameters must be set for both sessions (see FIGURE 10).

****CURRENT LOOP ADAPTER IS REQUIRED FOR RTIF TERMINALS**

FIGURE 11

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 = SER2/Para	SER1 Baud Rate = 4800 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 = 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>/ Return Key Repeat = Off
Ports	F6	SER1 Baud Rate = 4800 SER2 Baud Rate = 9600 SER1 Xmt = DSR 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 = DTR 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 = 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

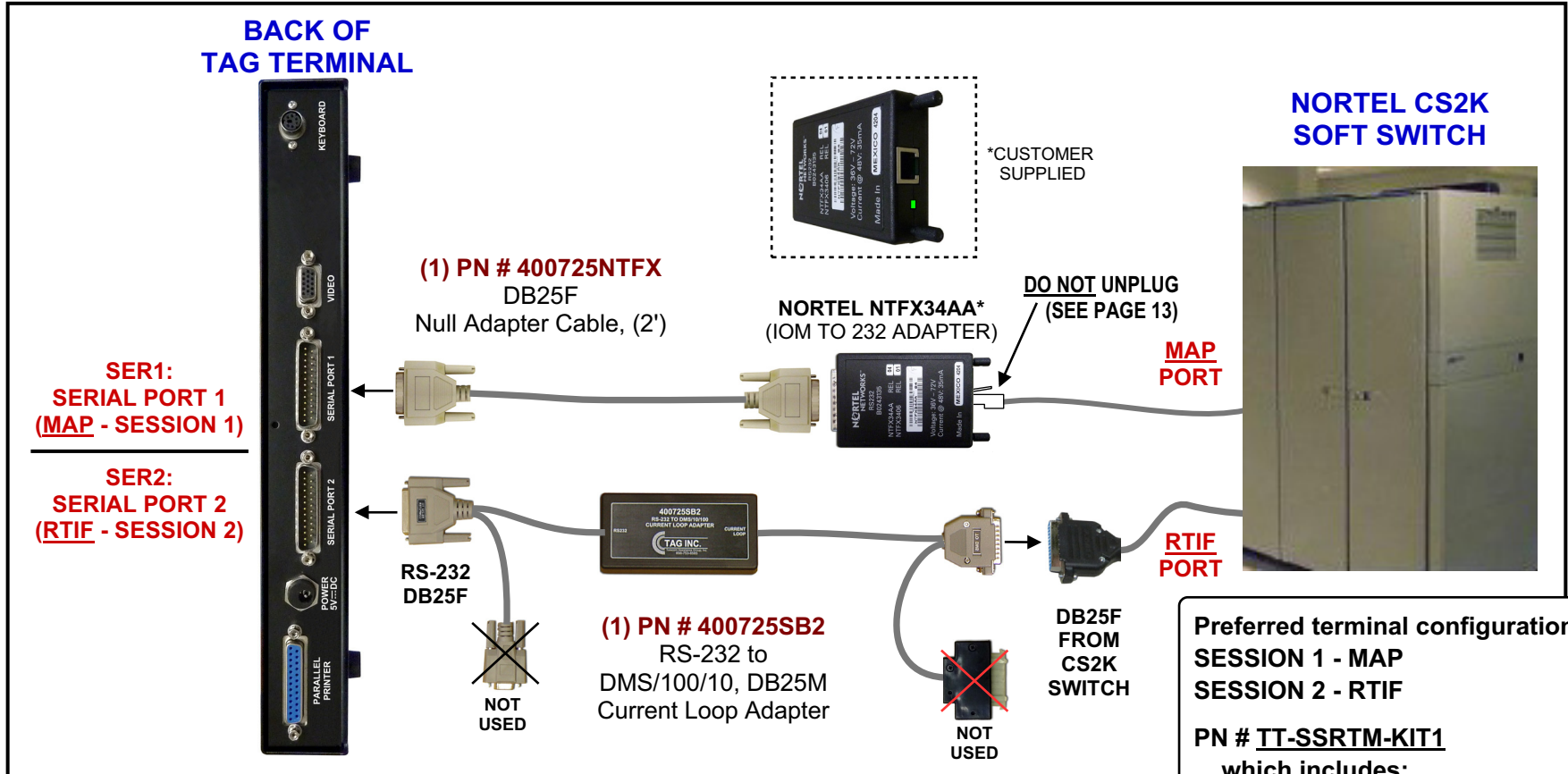
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DMS CURRENT LOOP INSTALLATION NOTES Pgs. 14-18

NOTES & TIPS

TT-SSRTM-KIT1 INSTALLATION NOTES

FIGURE 12



Preferred terminal configuration:
SESSION 1 - MAP
SESSION 2 - RTIF
PN # TT-SSRTM-KIT1
 which includes:
 (1) PN # 400725NTFX (MAP) &
 (1) PN # 400725SB2 (RTIF)

NOTES:

- SETUP SAME AS DMS BUT WITH HARDWARE HANDSHAKE
- 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

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Telecom Assistance Group

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

NOTES & TIPS**TT-SSRTM-KIT1 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 ON.

**NTFX34AA ADAPTER IS CUSTOMER SUPPLIED*

FIGURE 13

NOTES & TIPS

DMS CURRENT LOOP INSTALLATION NOTES

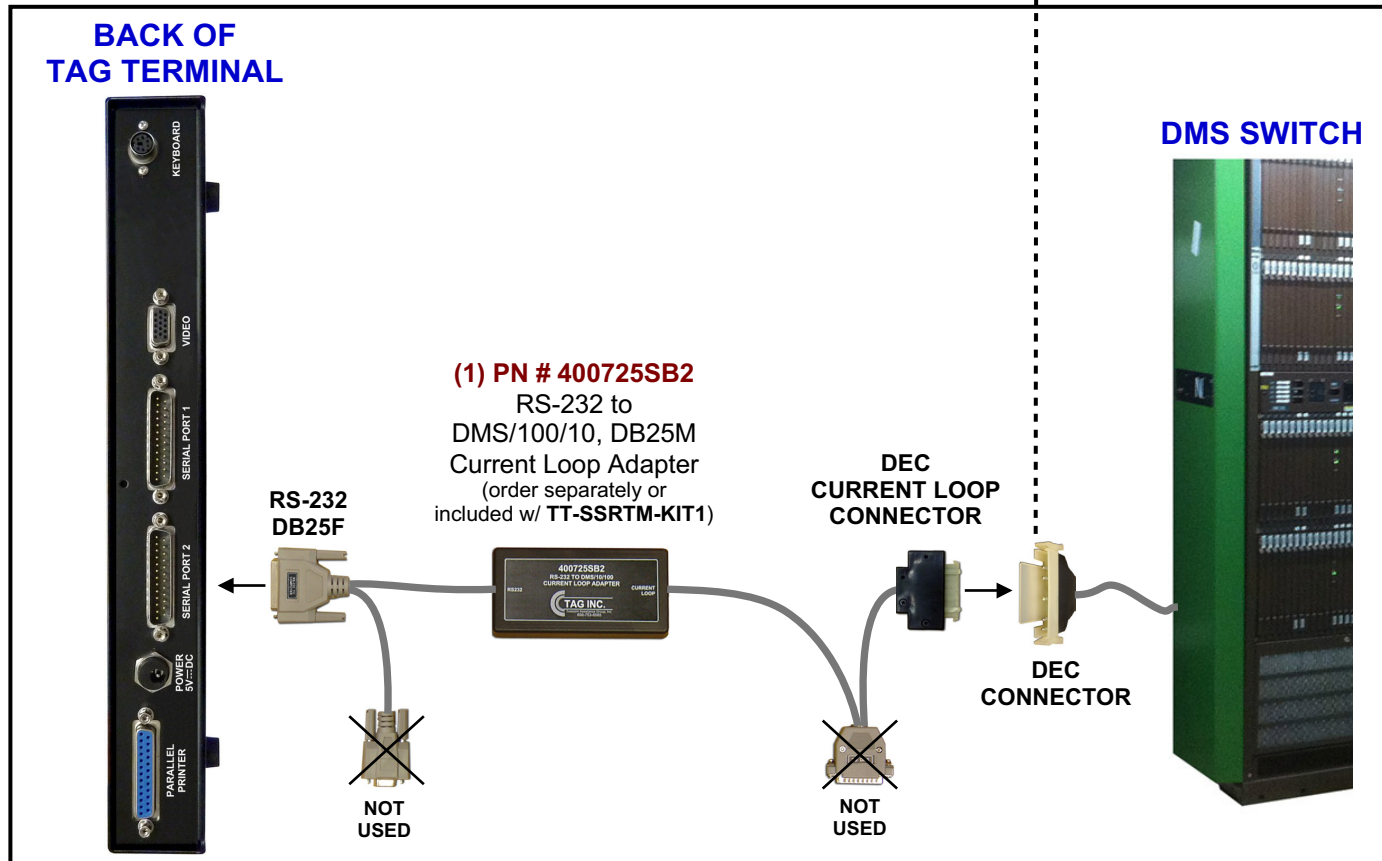
IF YOU HAVE:

FLAT DEC CONNECTOR FROM THE SWITCH

- USE THE 400725SB2 CURRENT LOOP ADAPTER



FIGURE 14



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NOTES & TIPS

IF YOU HAVE:

A CURRENT LOOP TO MMJ ADAPTER FROM THE SWITCH

- USE THE 400725SB2 CURRENT LOOP ADAPTER

DMS CURRENT LOOP INSTALLATION NOTES

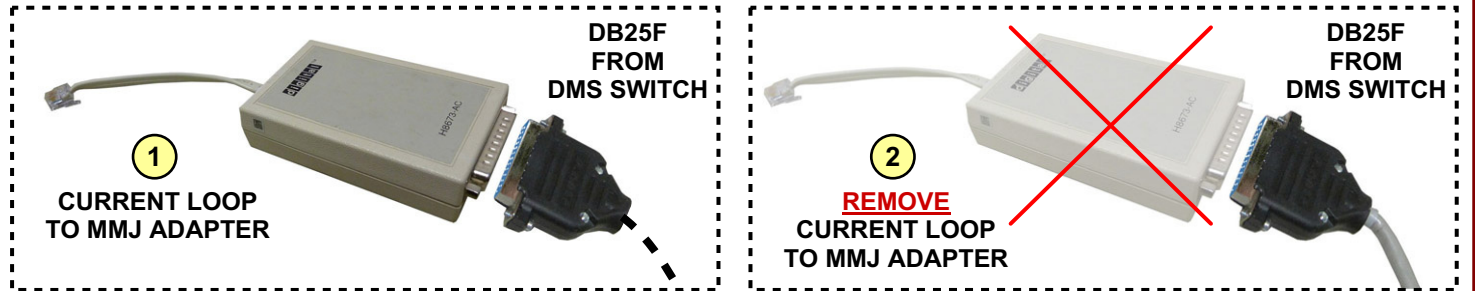
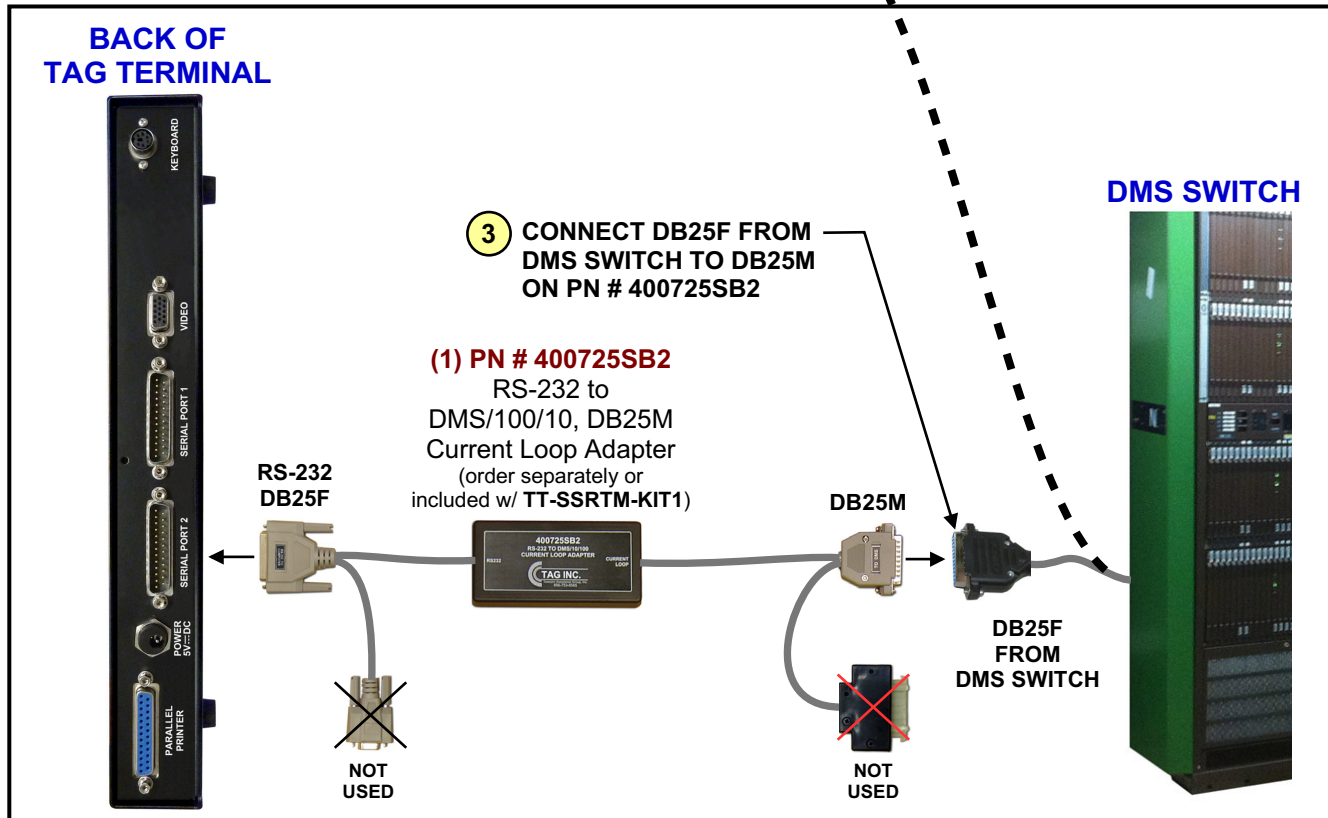


FIGURE 15



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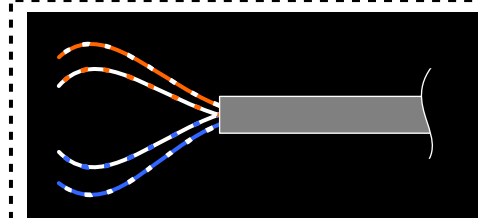
NOTES & TIPS

DMS CURRENT LOOP INSTALLATION NOTES

IF YOU HAVE:

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

- USE THE 400725SB2
CURRENT LOOP ADAPTER
w/ THE 400725SBW HARDWARE ADAPTER

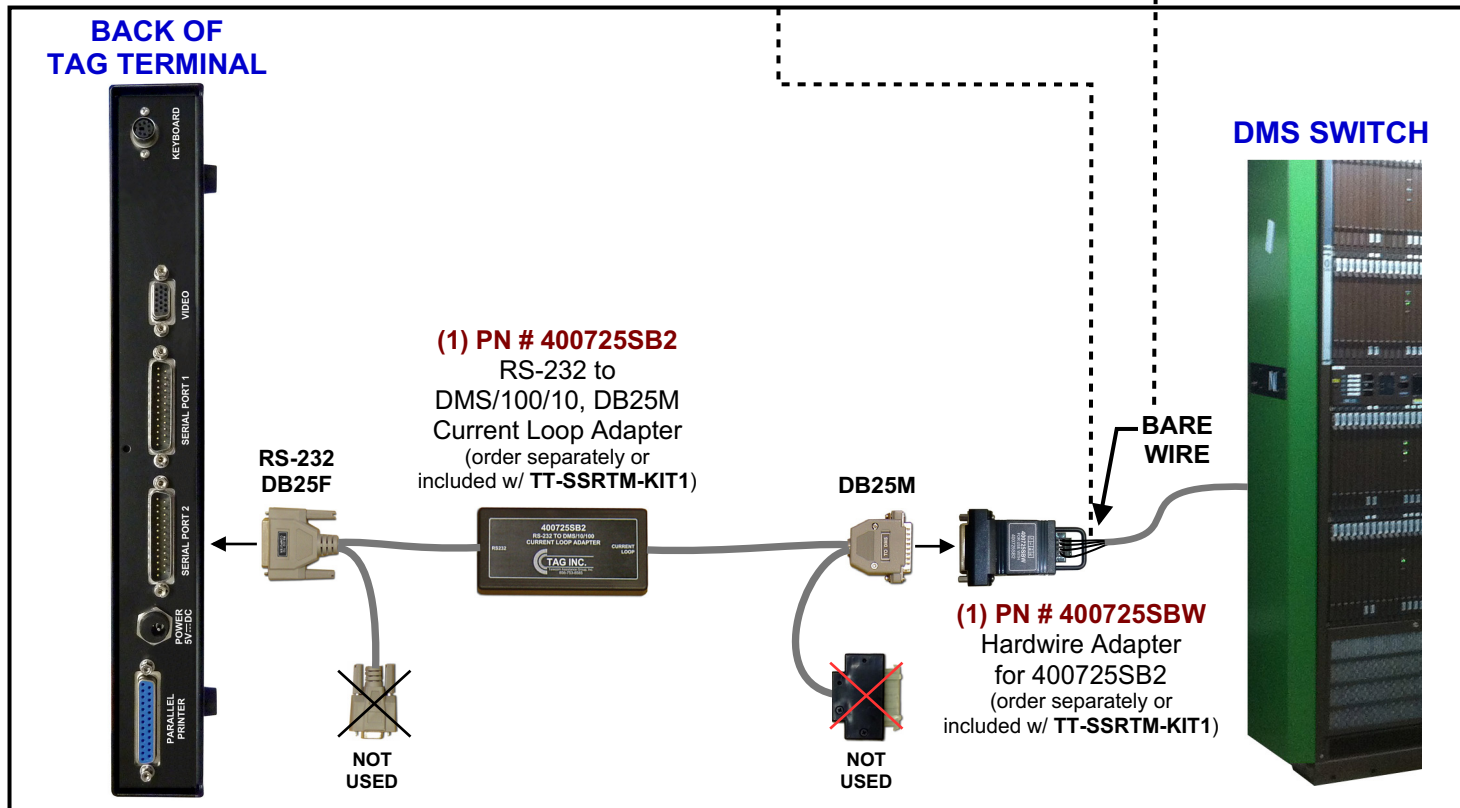


WIRING DETAIL*:



* Most common - Colors may vary
If colors are different, - DO NOT SEPERATE PAIRED WIRES

FIGURE 16



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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-

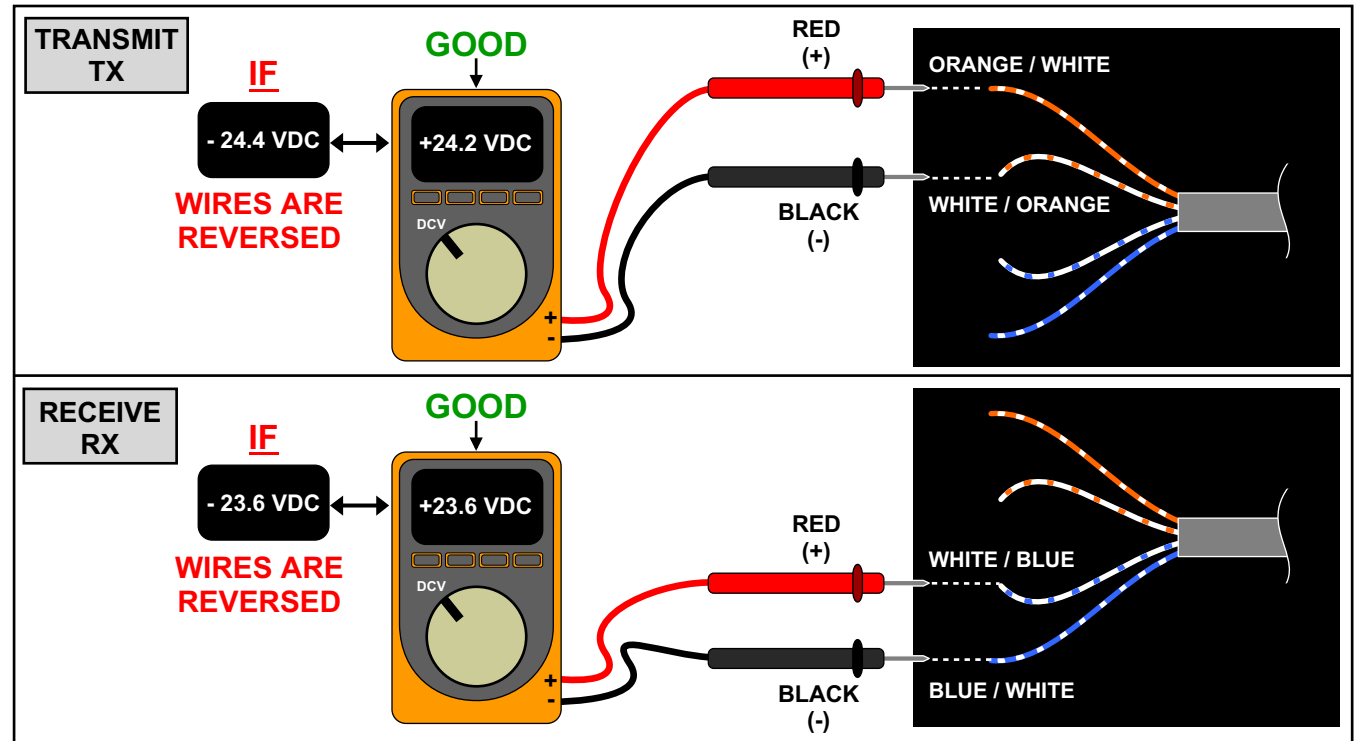
WIRING DETAIL*:



* Most common - Colors may vary

If colors are different, - DO NOT SEPERATE PAIRED WIRES

FIGURE 17



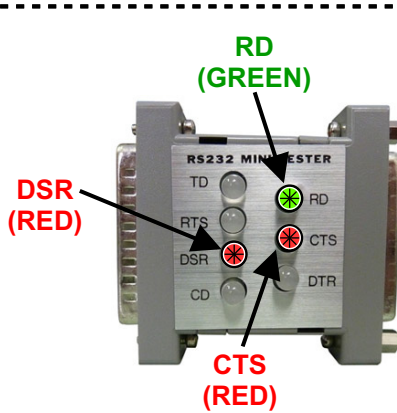
NOTES & TIPS

DMS CURRENT LOOP INSTALLATION NOTES

**IF YOU HAVE:
AN EXISTING TERMINAL
w/ DB25 CONNECTOR**

- USE THE 400725LB

**BACK OF
TAG TERMINAL**



**PN # 400725LB
DB25M to DB25F
Mini Tracer
(order separately)**

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



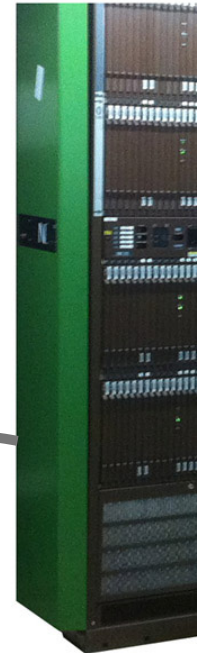
DB25

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

FIGURE 18

DMS SWITCH



**DB25 (RS-232)
FROM DMS SWITCH**



**(1) 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 CHANGER (PN # 400700).

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