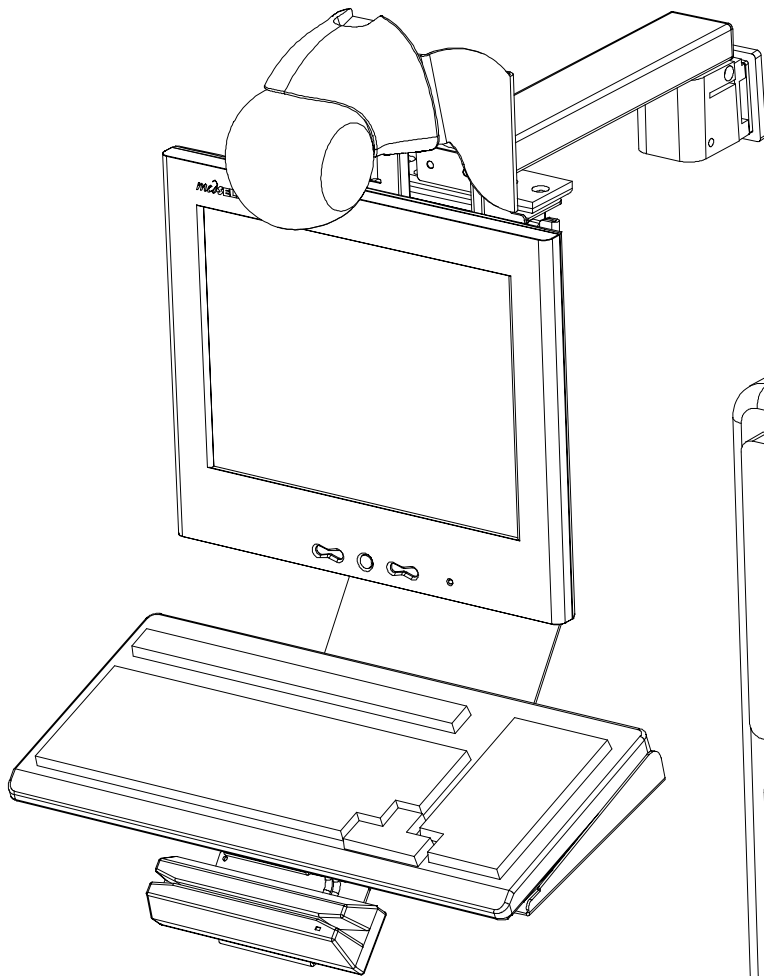


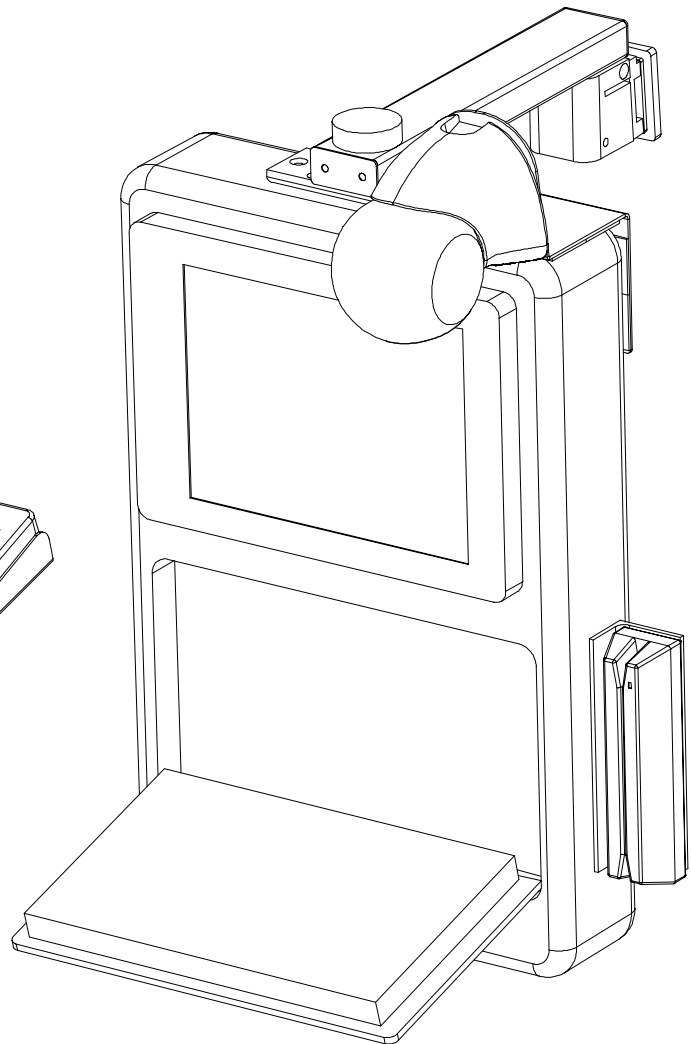


Installing and Using the Scanner Module

November 2003
TM-SCNMDL-000B



Display Terminal User Interface
(DT-UI) Version 2.0



Display Terminal User Interface
(DT-UI) Version 1.5

Document History

Document Number	Date	Remarks
TM-SCNMDL-000A	8/6/2003	Version 1.0 First Printing
	8/29/03	Version 1.1 General Changes Overall
	11/30/03	Version 1.2 Additional Information

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Use of the MedSelect and SupplySource Systems, as well as all aspects of patient care, must still rely upon the professional skill and judgment of a competent medical professional, who should independently verify the accuracy and completeness of all pharmacological, medical, legal, or similar information entered into the system and the results obtained therefrom.

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1. Overview

This document will give detailed instructions on how to assemble, install, configure and use the bar code scanner.

1.1 Work Authorization

Notify the system or department administrator before beginning work.

1.2 Working in Areas of Narcotic Storage

MedSelect equipment may be used for the storing and inventory control of scheduled substances. When servicing a system, consult a lab administrator to determine whether supervision by a physician, nurse, or other lab personnel is required during work.

1.3 Machine Type

The following items are affected by this kit:

Description	MedSelect Part Number(s)
Display Terminal Version 1.5	00-101635 Product Series
Display Terminal Version 2.0	00-101645 Product Series 00-101655 Product Series

2. Selecting a Scanner Kit

2.1 New Installations

One of the following kits is required when installing a scanner on a MedSelect Display Terminal (DT). The kit selection depends on the style of the DT User Interface (DT-UI) and the operating system on the computer that controls the DT (the DT-CPU.) Use the following chart to verify which scanner kit will be used for each DT.

DT-UI	DT-CPU Operating System	Scanner Kit(s) Needed
Display Terminal Version 1.5 (See Note 1)	Windows 2000/XP™	#2
Display Terminal Version 1.5	Windows 95™	#3
Display Terminal Version 2.0	Windows 2000/XP™	#1
Display Terminal Version 2.0 (See Note 2)	Windows 95™	#3 + Upgrade Kit #2

2.2 Upgrading Scanner Installation when Upgrading DT Components

One of the following kits is required if a scanner is already installed and DT components are being upgraded. Use the following chart to verify which scanner upgrade kit will be used.

DT-UI	Upgrade Kit Needed
DT-UI Version 1.5 → Version 2.0	#2
DT-CPU Operating System Windows 95™ → Windows 2000/XP™ (See Note 3)	#1

Note 1: Situation occurs when there has been a DT-CPU upgrade.

Note 2: Situation occurs when there has been a DT-UI upgrade.

Note 3: The DT Operating System could change to Windows 2000/XP™ if a DT-CPU upgrade is being installed, or if a Windows 2000/XP™ computer is replacing the existing computer as a service part.

3. Kit Contents (Full Installation and Upgrades)

Kit #1 (00-900101-000A)	
Operating System:	Windows 2000 / Windows XP
User Interface:	DT-UI 2.0 and later
Communication:	USB
Mounting Bracket:	Version 2 bracket
<i>Qty</i>	<i>Item</i>
1	Scanner Bracket, Version 2
1	Orbit Scanner
1	USB Scanner cable
1	USB Extension Cable
1	Scanner Power Supply
1	Power Extension Cable
1	Installation and Usage Doc.
10	Cable Tie
1	Disk with Scanner Driver
4	Thumb Screw, 8-32 x 3/8"
1	"Y" Power Cable

Kit #2 (00-900101-000B)	
Operating System:	Windows 2000 / Windows XP
User Interface:	DT-UI 1.5 and earlier
Communication:	USB
Mounting Bracket:	Version 1 bracket
<i>Qty</i>	<i>Item</i>
1	Scanner Bracket, Version 1
1	Orbit Scanner
1	USB Scanner cable
1	USB Extension Cable
1	Scanner Power Supply
1	Power Extension Cable
1	Installation and Usage Doc.
10	Cable Tie
1	Disk with Scanner Driver
1	"Y" Power Cable

Kit #3 (00-900101-000C)	
Operating System:	Windows 95
User Interface:	DT-UI 1.5 and earlier
Communication:	Serial
Mounting Bracket:	Version 1 Bracket
<i>Qty</i>	<i>Item</i>
1	Scanner Bracket, Version 1
1	Orbit Scanner
1	Serial Scanner Cable
1	Serial Extension Cable
1	Scanner Power Supply
1	Power Extension Cable
1	Installation and Usage Doc.
10	Cable Tie
1	"Y" Power Cable

Upgrade Kit #1 (49-021325-000A)	
<i>Qty</i>	<i>Item</i>
1	USB Scanner cable
1	USB Extension Cable
1	Floppy Disk with Scanner Driver
1	Installation and Usage Doc.
10	Cable Tie

Upgrade Kit #2 (49-021326-000A)	
<i>Qty</i>	<i>Item</i>
1	Scanner Bracket, Version 2
4	Thumb Screw, 8-32 x 3/8"
1	Installation and Usage Doc.
10	Cable Tie

4. Special Tools

A pair of cutters may be needed to trim or remove any existing wire ties.

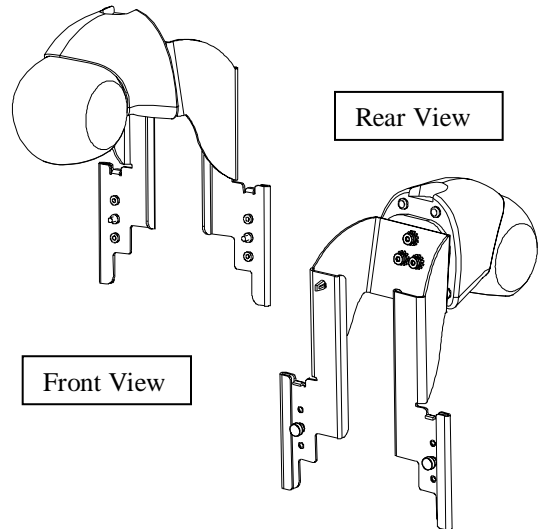
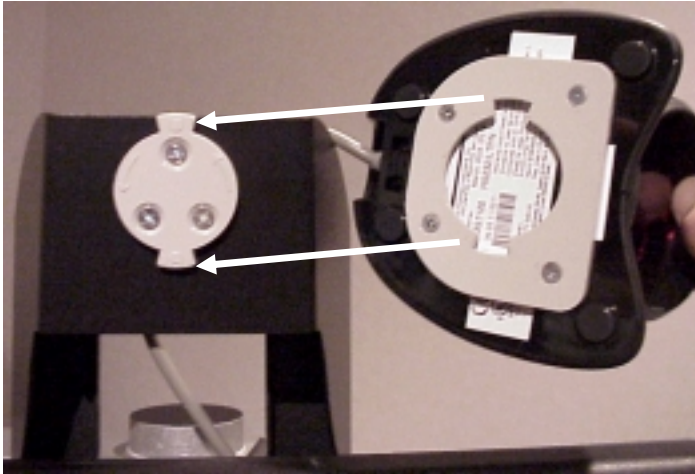
5. Safety

The scanner is a Class IIa Laser Product. Avoid long-term viewing of direct laser light. DO NOT STARE INTO BEAM.

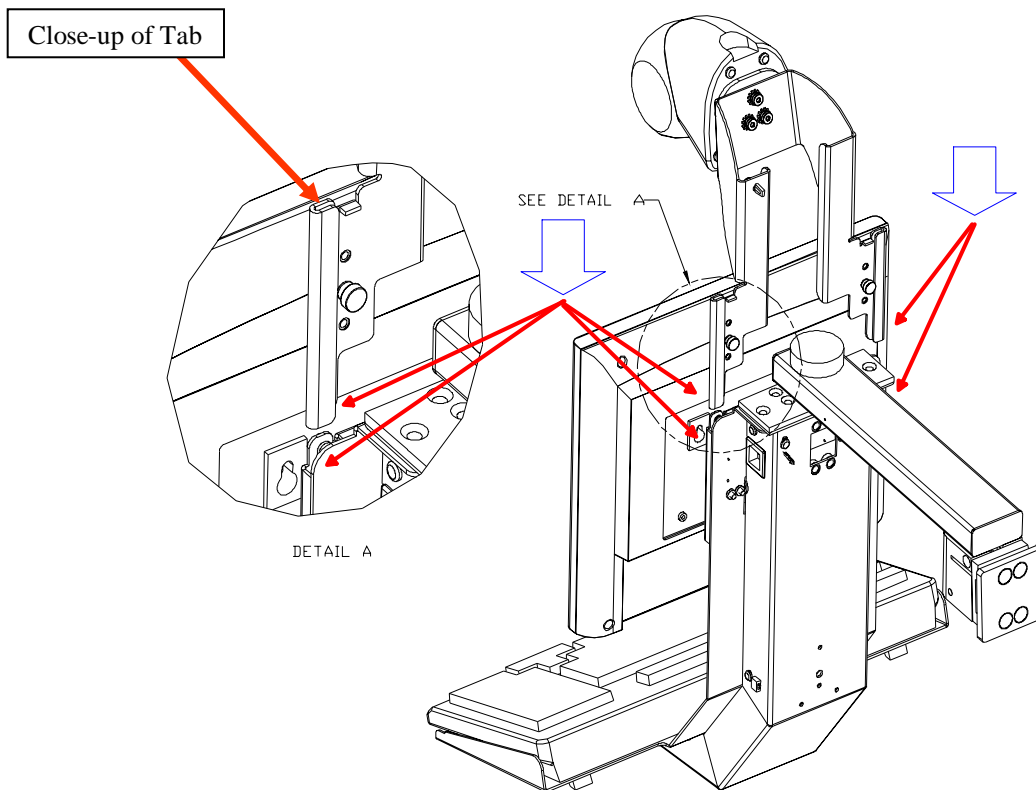
6. How to Install

6.1 Installing Kit #1 (00-900101-000A)

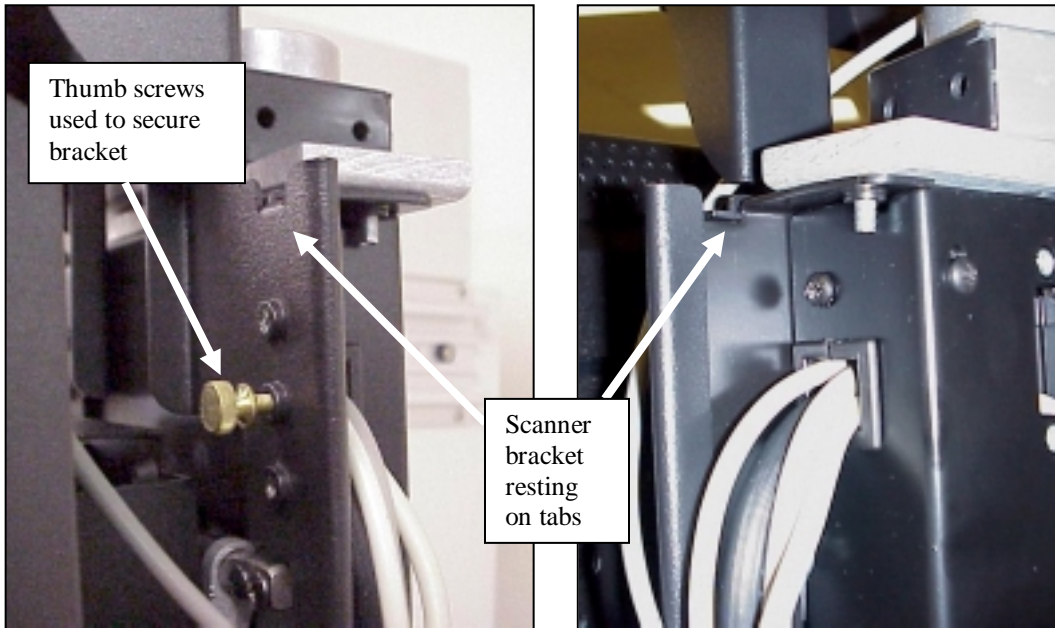
- Scanner is attached to bracket by aligning it to mounting tabs as shown and rotating 90° counter-clockwise.



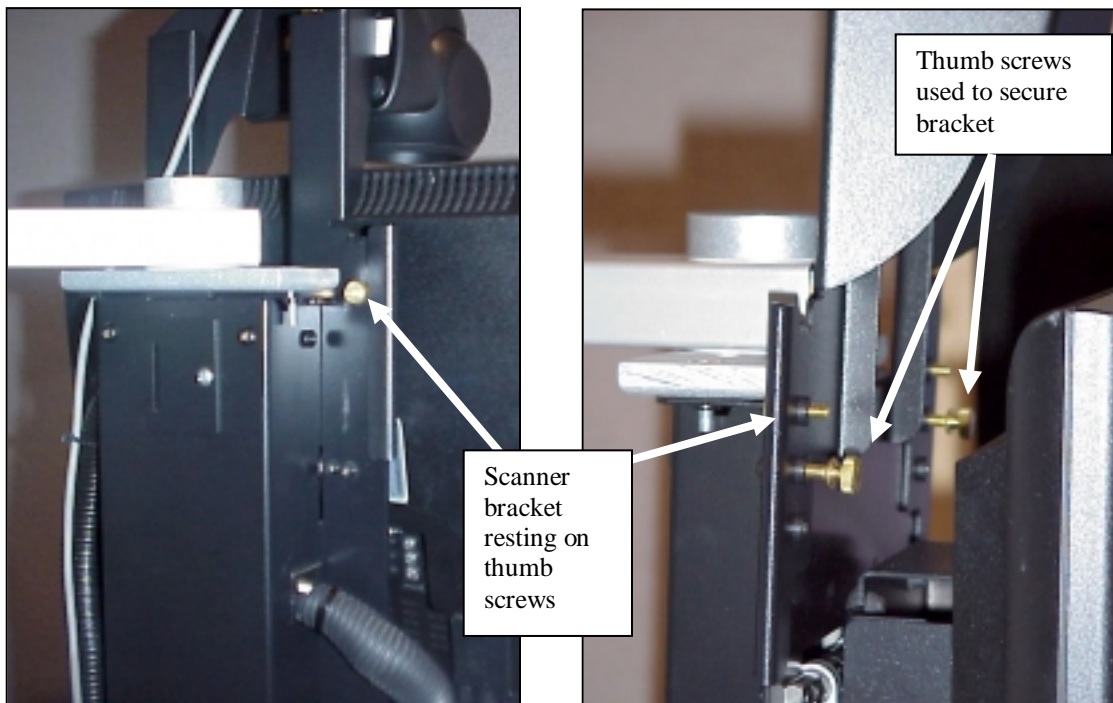
- Slide scanner and bracket over tabs as shown below. (Note: The four thumb screws may be threaded into bracket for shipping purposes; remove and set aside for later use)



- Depending on the LCD touch screen installed, the scanner height can be adjusted to allow full tilt travel of the LCD monitor. (Scanner should be as low as possible and still allow full tilt travel of LCD monitor)



- Shown above is the bracket fully down, resting on the tabs. The thumb screws are used to secure the scanner to the Display Terminal from the front. Keep the extra two thumb screws in a safe place for future use. (For this LCD monitor, this position allows for full tilt travel)



- Shown above is the bracket raised up one adjustment position. Two of the thumb screws are assembled such that assembly is resting on it. These thumb screws are first installed to the scanner bracket from the rear *before* placing onto the Display Terminal. The other two thumb screws are then used to secure the scanner to the Display Terminal from the front as shown.

- Wiring the Scanner
 - Exit the DT application (if it is running).
 - Shut down the DT-CPU computer by holding the power button down until the computer shuts down.
 - Connect the USB Extension Cable to the USB Scanner Cable.
 - Route the cable along the main Display Terminal cable bundle leaving approximately 15 inches (38.1 cm) of scanner cable (with the RJ45 phone style connector) past the point where the main bundle enters the housing on the User Interface.
 - Loosely attach the USB cable to the main bundle using wire ties evenly spaced.
 - Route the RJ45 connector and cable end up through the inside of the bracket and plug into the top of the scanner.
 - Secure the cable to the inside of the bracket using a wire tie into the installed clip.
 - Plug the tip end of the power supply into the scanner cable and route cable as needed. Plug power supply into electrical extension cord as needed.
 - Adjust the cable lengths as needed and secure all cable ties.
 - Plug the USB connector into a USB port on the back of the Display Terminal computer.
 - Pivot the Display Terminal fully from side to side to make sure no wires are pinched.
 - Plug power cord into open UPS outlet if available. If all receptacles on the UPS are taken:
 - Unplug IB Hub power cable from UPS.
 - Plug the included “Y” power cable into the open location in the UPS.
 - Plug both the IB Hub and the Scanner power cord into the “Y” power cable.
 - Rotate scanner head as needed for use.
- Configuring the Computer
 - After the scanner is plugged into the computer, turn on the power to the DT-CPU. Allow computer to boot completely. (The DT application will automatically begin) Once the DT application has loaded, log in and exit the application. (Using CTRL-ALT-DEL, open Task Manager and confirm under the PROCESSES tab, that DLOG.EXE is no longer running. If it is, highlight it and select END TASK. At the prompt, select YES.)
 - Windows will run the “Found New Hardware Wizard” which will be displayed on the touch screen. If it does not automatically start, use the “Add new Hardware” wizard found within the Start menu → Settings → Control Panel.
 - Follow the windows prompts. When requested for a hardware driver, insert the included driver diskette and select the floppy drive (A:\) as the location where windows should look for drivers. If no disk is supplied, the driver will be located in the following location: C:\XXX.
 - The port number can be found using Settings → Control Panel → System. Under the “Hardware” tab, select “Device Manager” and look in “Ports (COM & LPT)” for the port that has the scanner attached to it. Use this single digit number below for #. (NOTE: The com port number used here MUST be greater than and including 1 and less than and including 8 to work. If the port number the scanner is using is not in this range, contact MedSelect Client Support at the number listed in troubleshooting section of this guide.)

- Once the driver is installed, use the operating system text editor to add the following lines to the appropriate “-----.ini” file found on the DT-CPU in the following locations:

For a MedSelect Rx Station	C:\DT\dt.ini
For a MedSelect Supply Source Station	C:\DTSSP\dtssp.ini

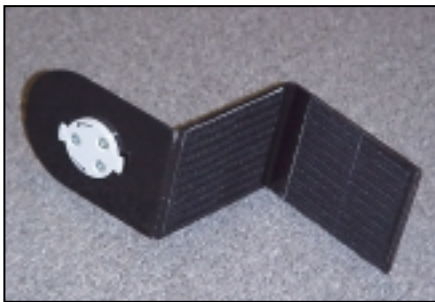
- [SCANNER]
- PORT = # (where # is the port number found above)

Note: The 2 lines listed above may already be located within the “-----.ini” file. Look over the file prior to adding the two lines. If they are already there, simply change the # as needed. The lines do not need to be added more than once.

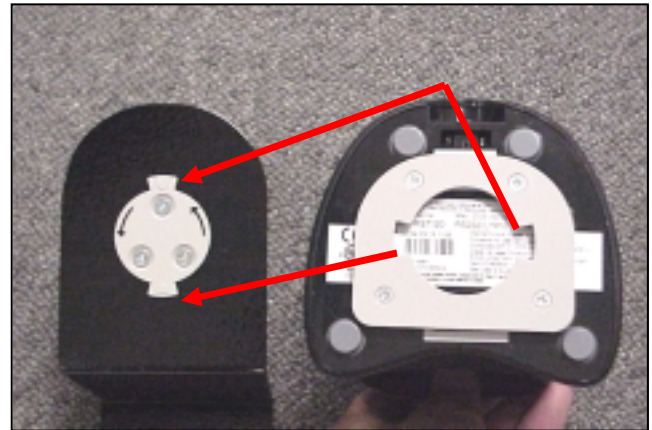
- Reboot the DT-CPU.
- Test the scanner using the “Completing the Installation” section of this instruction set.

6.2 Installing Kit #2 (00-900101-000B)

- Scanner bracket shown below with scanner mounting disk attached.



- Clean and prepare mounting surface where bracket will attach with alcohol. (Area outlined in white above.) Allow ample time for area to dry completely.
 - Scanner can be installed on *either* side of the DT-UI. Scanner is typically placed on the side of the DT-UI that is away from the equipment. The picture above is an example of where to install the scanner where the MedSelect equipment would be to the *left* of the DT-UI.
- Note that the hook side of the fastener tape will be attached to the mounting bracket itself. Remove the adhesive backing strip from the pile side of the fastener tape, while leaving the pile side still attached to the bracket. (*See Note below for alternate method*) Attach the adhesive side of the pile portion to the cleaned area, using the bracket itself to push down.
 - *Note: Once the adhesive makes contact with the metal, it will not be able to be repositioned. An alternate way to attach would be to use a pencil and outline the bracket where it will attach to the display terminal (same area cleaned with alcohol). Separate the two halves of the tape pieces and attach the pile side to the display terminal, staying within the lines drawn earlier. Then attach the bracket bringing the two halves of the fastener tape together.*



- Scanner is attached to bracket by aligning it to mounting tabs as shown and rotating 90° counter-clockwise.
- Wiring the scanner
 - Exit the DT application (if it is running).
 - Shut down the DT-CPU computer by holding the power button down until the computer shuts down.
 - Connect the USB Extension Cable to the USB Scanner Cable.
 - Route the cables along the main Display Terminal cable bundle which may enter the Display Terminal housing from the side or the bottom.
 - Loosely attach the USB cable to the main bundle using wire ties evenly spaced.
 - Route the RJ45 connector and cable end up along back of display terminal and plug into the top of the scanner.
 - Use a cable tie to secure the cable coming from the scanner to the clip located on the scanner bracket.
 - Plug the tip end of the power supply into the scanner cable and route cable as needed. Plug power supply into electrical extension cord as needed.
 - Adjust the cable lengths as needed and secure all cable ties.
 - Plug the USB connector into a USB port on the back of the Display Terminal computer.
 - Pivot the Display Terminal fully from side to side to make sure no wires are pinched.
 - Plug power cord into open UPS outlet if available. If all receptacles on the UPS are taken:
 - Unplug IB Hub power cable from UPS.
 - Plug the included “Y” power cable into the open location in the UPS.
 - Plug both the IB Hub and the Scanner power cord into the “Y” power cable.
 - Rotate scanner head as needed for use.
- Configuring the Computer
 - After the scanner is plugged into the computer, turn on the power to the DT-CPU. Allow computer to boot completely. (The DT application will automatically begin) Once the DT application has loaded, log in and exit the application. (Using CTRL-ALT-DEL, open Task Manager and confirm under the PROCESSES tab, that DLOG.EXE is no longer running. If it is, highlight it and select END TASK. At the prompt, select YES.)
 - Windows will run the “Found New Hardware Wizard” which will be displayed on the touch screen. If it does not automatically start, use the “Add new Hardware” wizard found within the Start menu → Settings → Control Panel.

- Follow the windows prompts. When requested for a hardware driver, insert the included driver diskette and select the floppy drive as the location where windows should look for drivers.
- Follow the windows prompts. When requested for a hardware driver, insert the included driver diskette and select the floppy drive (A:\) as the location where windows should look for drivers. If no disk is supplied, the driver will be located in the following location: C:\XXX.
- The port number can be found using Settings → Control Panel → System. Under the “Hardware” tab, select “Device Manager” and look in “Ports (COM & LPT)” for the port that has the scanner attached to it. Use this single digit number below for #. (NOTE: The com port number used here MUST be greater than and including 1 and less than and including 8 to work. If the port number the scanner is using is not in this range, contact MedSelect Client Support at the number listed in troubleshooting section of this guide.)
- Once the driver is installed, use the operating system text editor to add the following lines to the appropriate “-----.ini” file found on the DT-CPU in the following locations:

For a MedSelect Rx Station	C:\DT\dt.ini
For a MedSelect Supply Source Station	C:\DTSSP\dtssp.ini

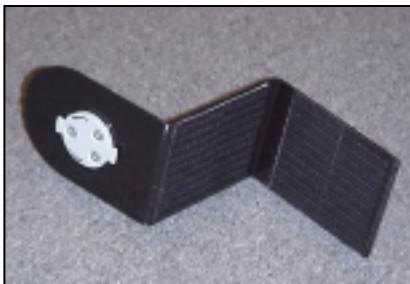
- [SCANNER]
- PORT = # (where # is the port number found above)

Note: The 2 lines listed above may already be located within the “-----.ini” file. Look over the file prior to adding the two lines. If they are already there, simply change the # as needed. The lines do not need to be added more than once.

- Reboot the DT-CPU.
- Test the scanner using the “Completing the Installation” section of this instruction set.

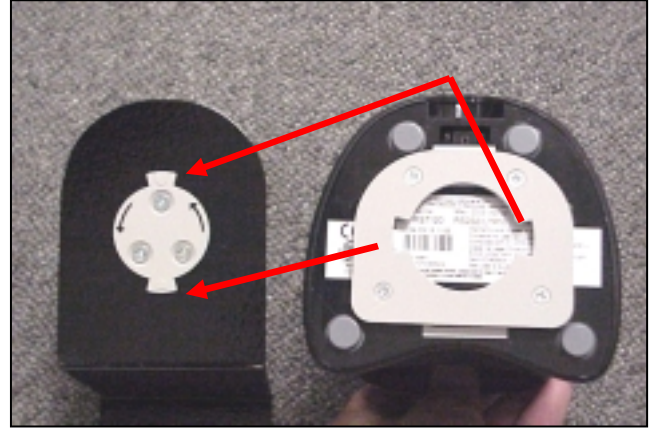
6.3 Installing Kit #3 (00-900101-000C)

- Scanner bracket shown below with scanner mounting disk attached.



- Clean and prepare mounting surface where bracket will attach with alcohol. (Area outlined in white on previous page.) Allow ample time for area to dry completely.
 - Scanner can be installed on *either* side of the DT-UI. Scanner is typically placed on the side of the DT-UI that is away from the equipment. The picture above is an example of where to install the scanner where the MedSelect equipment would be to the *left* of the DT-UI.

- Note that the hook side of the fastener tape will be attached to the mounting bracket itself. Remove the adhesive backing strip from the pile side of the fastener tape, while leaving the pile side still attached to the bracket. (*See Note below for alternate method*) Attach the adhesive side of the pile portion to the cleaned area, using the bracket itself to push down.
 - *Note: Once the adhesive makes contact with the metal, it will not be able to be repositioned. An alternate way to attach would be to use a pencil and outline the bracket where it will attach to the display terminal (same area cleaned with alcohol). Separate the two halves of the tape pieces and attach the pile side to the display terminal, staying within the lines drawn earlier. Then attach the bracket bringing the two halves of the fastener tape together.*



- Scanner is attached to bracket by aligning it to mounting tabs as shown and rotating 90° counter-clockwise.
- Wiring the scanner
 - Exit the DT application (if it is running).
 - Shut down the DT-CPU computer by holding the power button down until the computer shuts down.
 - Connect the Serial Extension Cable to the Serial Scanner Cable.
 - Route the cables along the main Display Terminal cable bundle which may enter the Display Terminal housing from the side or the bottom.
 - Loosely attach the serial cable to the main bundle using wire ties evenly spaced.
 - Route the RJ45 connector and cable end up along back of display terminal and plug into the top of the scanner.
 - Use a cable tie to secure the cable coming from the scanner to the clip located on the scanner bracket.
 - Plug the tip end of the power supply into the scanner cable and route cable as needed. Plug power supply into electrical extension cord as needed.
 - Adjust the cable lengths as needed and secure all cable ties.
 - Plug the serial connector into an open serial port on the back of the Display Terminal computer.
 - **Note:** There are situations where all the direct serial ports to the DT-CPU may be filled. If this is the case, an add-on card is installed within the DT-CPU. It will have four corded serial attach points that come out of the back of the card (in the back of the DT-CPU). Plug the serial connector into the *lowest* number or letter available. (i.e. 1 or A, etc...) If there are NO serial ports available on the back of the computer, or the add-on card, contact MedSelect Client Support at the number located within the troubleshooting section of this instruction set.
 - Pivot the Display Terminal fully from side to side to make sure no wires are pinched.

- Plug power cord into open UPS outlet if available. If all receptacles on the UPS are taken:
 - Unplug IB Hub power cable from UPS.
 - Plug the included “Y” power cable into the open location in the UPS.
 - Plug both the IB Hub and the Scanner power cord into the “Y” power cable.
- Rotate scanner head as needed for use.
- Configuring the Computer
 - After the scanner is plugged into the computer, turn on the power to the DT-CPU. Allow computer to boot completely. (The DT application will automatically begin) Once the DT application has loaded, log in and exit the application. (Using CTRL-ALT-DEL, open Task Manager and confirm under the PROCESSES tab, that DLOG.EXE is no longer running. If it is, highlight it and select END TASK. At the prompt, select YES.)
 - There are no special device drivers to be installed as the device is attached via a serial port.
 - The port number can be found by:
 - If the serial connector is plugged directly into the back of the DT-CPU, the port number will be 1 or 2. Look on the back of the computer to know which port the cable is attached to.
 - If the serial connector is plugged into the corded serial attach points on the add-on card, the port number should correspond to the number written on the serial attach point. Basically, the lowest number or first letter used is port 3, so on and so forth.
 - Once the driver is installed, use the operating system text editor to add the following lines to the appropriate “-----.ini” file found on the DT-CPU in the following locations:

For a MedSelect Rx Station	C:\DT\dt.ini
For a MedSelect Supply Source Station	C:\DTSSP\dtssp.ini

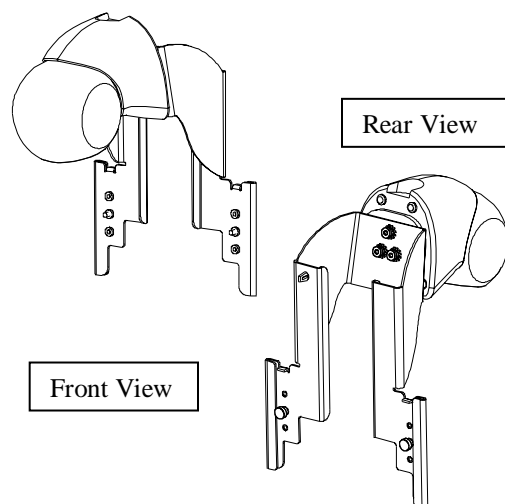
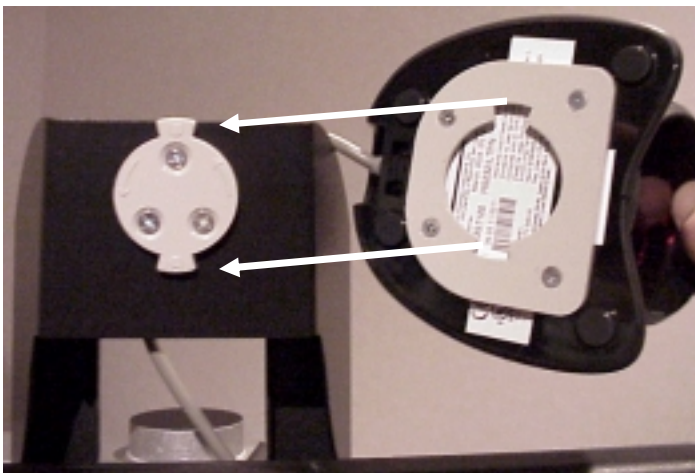
- [SCANNER]
- PORT = # (where # is the port number found above)

Note: The 2 lines listed above may already be located within the “-----.ini” file. Look over the file prior to adding the two lines. If they are already there, simply change the # as needed. The lines do not need to be added more than once.

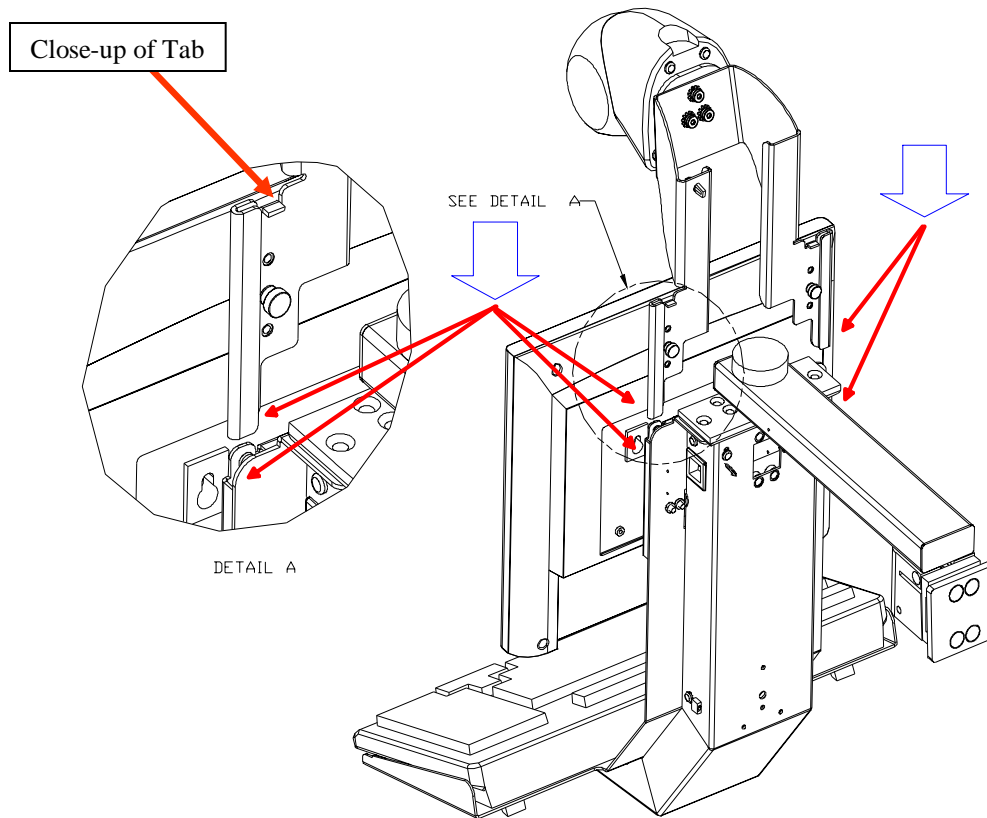
- Reboot the DT-CPU.
- Test the scanner using the “Completing the Installation” section of this instruction set.

6.4 Installing Kit #3 (00-900101-000C) and Upgrade Kit #2

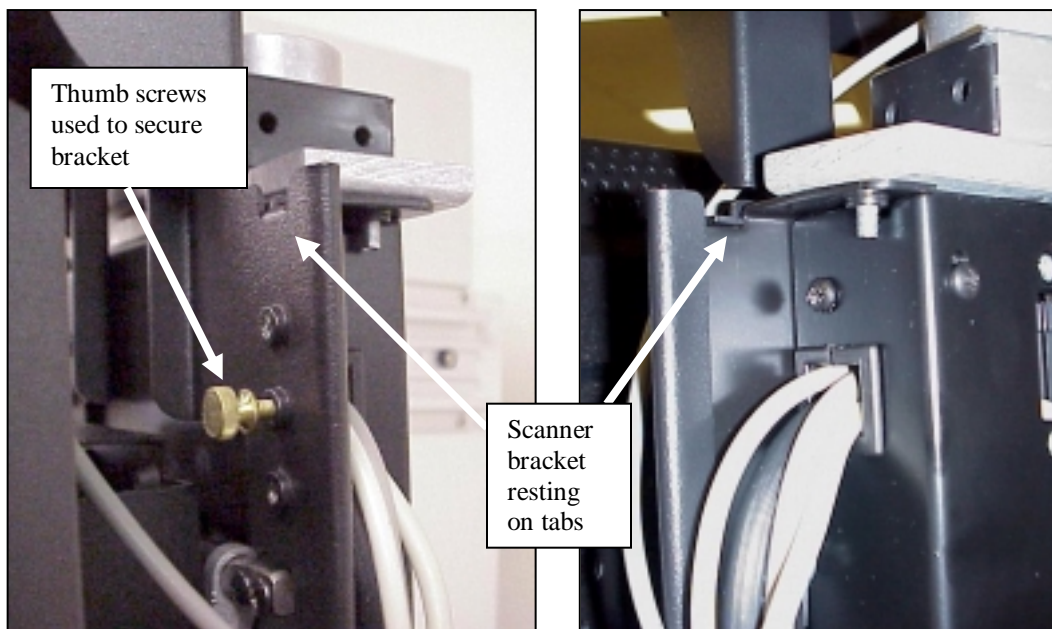
- Scanner is attached to bracket by aligning it to mounting tabs as shown and rotating 90° counter-clockwise.



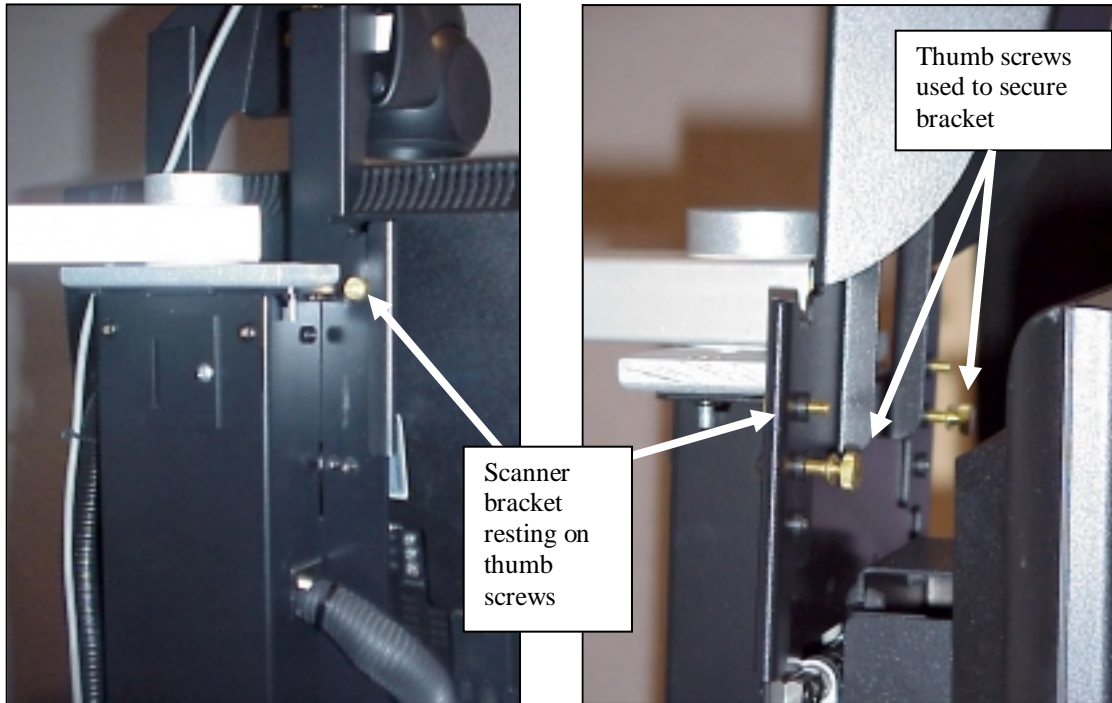
- Slide scanner and bracket over tabs as shown below. (Note: The four thumb screws may be threaded into bracket for shipping purposes; remove and set aside for later use)



- Depending on the LCD touch screen installed, the scanner height can be adjusted to allow full tilt travel of the LCD monitor. (Scanner should be as low as possible and still allow full tilt travel of LCD monitor)



- Shown above is the bracket fully down, resting on the tabs. The thumb screws are used to secure the scanner to the Display Terminal from the front. Keep the extra two thumb screws in a safe place for future use. (For this LCD monitor, this position allows for full tilt travel)



- Shown above is the bracket raised up one adjustment position. Two of the thumb screws are assembled such that assembly is resting on it. These thumb screws are first installed to the scanner bracket from the rear *before* placing onto the Display Terminal. The other two thumb screws are then used to secure the scanner to the Display Terminal from the front as shown.

Note: Scanner bracket version 1 that comes with Kit #3 will not be used and can be discarded.

- **Wiring the scanner**

- Exit the DT application (if it is running).
- Shut down the DT-CPU computer by holding the power button down until the computer shuts down.
- Connect the Serial Extension Cable to the Serial Scanner Cable.
- Route the cable along the main Display Terminal cable bundle leaving approximately 15 inches (38.1 cm) of scanner cable (with the RJ45 phone style connector) past the point where the main bundle enters the housing on the User Interface.
- Loosely attach the serial cable to the main bundle using wire ties evenly spaced.
- Route the RJ45 connector and cable end up along back of display terminal and plug into the top of the scanner.
- Secure the cable to the inside of the bracket using a wire tie into the installed clip.
- Plug the tip end of the power supply into the scanner cable and route cable as needed. Plug power supply into electrical extension cord as needed.
- Adjust the cable lengths as needed and secure all cable ties.

- Plug the serial connector into an open serial port on the back of the Display Terminal computer.
 - Note: There are situations where all the direct serial ports to the DT-CPU may be filled. If this is the case, an add-on card is installed within the DT-CPU. It will have four corded serial attach points that come out of the back of the card (in the back of the DT-CPU). Plug the serial connector into the *lowest* number or letter available. (i.e. 1 or A, etc...) If there are NO serial ports available on the back of the computer, or the add-on card, contact MedSelect Client Support at the number located within the troubleshooting section of this instruction set.
- Pivot the Display Terminal fully from side to side to make sure no wires are pinched.
- Plug power cord into open UPS outlet if available. If all receptacles on the UPS are taken:
 - Unplug IB Hub power cable from UPS.
 - Plug the included “Y” power cable into the open location in the UPS.
 - Plug both the IB Hub and the Scanner power cord into the “Y” power cable.
- Rotate scanner head as needed for use.
- **Configuring the Computer**
 - After the scanner is plugged into the computer, turn on the power to the DT-CPU. Allow computer to boot completely. (The DT application will automatically begin) Once the DT application has loaded, log in and exit the application. (Using CTRL-ALT-DEL, open Task Manager and confirm under the PROCESSES tab, that DLOG.EXE is no longer running. If it is, highlight it and select END TASK. At the prompt, select YES.)
 - There are no special device drivers to be installed as the device is attached via a serial port.
 - The port number can be found by:
 - If the serial connector is plugged directly into the back of the DT-CPU, the port number will be 1 or 2. Look on the back of the computer to know which port the cable is attached to.
 - If the serial connector is plugged into the corded serial attach points on the add-on card, the port number should correspond to the number written on the serial attach point. Basically, the lowest number or first letter used is port 3, so on and so forth.
 - Once the driver is installed, use the operating system text editor to add the following lines to the appropriate “-----.ini” file found on the DT-CPU in the following locations:

For a MedSelect Rx Station	C:\DT\dt.ini
For a MedSelect Supply Source Station	C:\DTSSP\dtssp.ini

 - [SCANNER]
 - PORT = # (where # is the port number found above)

Note: The 2 lines listed above may already be located within the “-----.ini” file. Look over the file prior to adding the two lines. If they are already there, simply change the # as needed. The lines do not need to be added more than once.
 - Reboot the DT-CPU.
 - Test the scanner using the “Completing the Installation” section of this instruction set.

Note: If you get the message “Could not open COM port” when you try to logon to the DT simply hit the OK button and your DT should function normally. This message indicates that your scanner has been enabled but is not hooked up.

6.5 Installing Upgrade Kit #1 (49-021325-000A)

- If the install involves an operating system upgrade from Windows 95 to Windows 2000 or Windows XP, the existing scanner module will be converted to USB using this Upgrade Kit.
 - Remove serial cable and serial cable extension from existing installation. (The power cable, along with all other items, will still be used)

- Loosely attach the new cables to the main bundle using wire ties evenly spaced.
- Route the RJ45 connector and cable end and plug into the top of the scanner.
- Plug the tip end of the power supply into the scanner cable and route cable as needed. Plug power supply into electrical extension cord as needed.
- Adjust the cable lengths as needed and secure all cable ties.
- Plug the USB connector into a USB port on the back of the Display Terminal computer (computer does not need to be shut down).
- Pivot the Display Terminal fully from side to side to make sure no wires are pinched.
- Plug power cord into open UPS outlet if available. If all receptacles on the UPS are taken, plug into a standard wall receptacle.

6.6 Upgrade #2 (49-021326-000A)

- If the install involves a DT-UI upgrade from the DT-UI 1.5 (USB) to the latest DT-UI, the existing scanner module will be converted using this Upgrade Kit.
 - Remove scanner mounting disk from existing bracket and reassemble to new bracket using the same mounting hardware.
 - Complete installation by attaching bracket and scanner, routing cables and configuring according to the instructions found above for installing Kit #1.

7. Completing the Installation

7.1 Testing the Scanner

- Under normal conditions, the scanner will display a green light.
- Upon successful read of a bar code, the scanner will flash a red light and will beep.
- Use the following bar codes to test if the scanner is reading properly.



- If the scanner is not reading at all, or is not sending information to the DT-CPU, refer to the troubleshooting section of this instruction set.

7.2 Using the Scanner Effectively

The scanner has been set up to read a variety of bar code styles and sizes. To use, place the object with the code approximately 2-4 inches under the read head with the code facing the reader. You should see the scan lines on the object. If no scan lines are present, the scanner may be in “sleep mode”. Wait a few seconds for the scanner to wake up.

The following are some tips to using the scanner effectively:

- If the object does not scan, move the object around so as to cross a scan line. Tilting object to be scanned back and forth sometimes will produce better results.
- Small bar codes are read better closer to the scanner.
- Large bar codes are read better further from the scanner.
- Bar codes wrapped around round objects may not read.
- Some bar codes on clear backgrounds may not read.

7.3 System Configuration

Prior to the scanner being able to be used in any capacity for testing or general use, the scanner feature must be enabled on each DT-CPU where the Scanner Module is installed. This can be done prior to installation or after installation of the scanner. (Note: If completed after installation, a reboot of the DT-CPU will be needed. The Scanner Module option *must* be enabled for the scanner to work in any capacity.)

- Verify the Scanner Module feature is enabled for each Display Terminal by contacting MedSelect Client Support. (1-800-508-4576 option 4)
- Verify that each Display Terminal has at least the following versions of software installed:
 - For a MedSelect (Rx) Station: Software Version 6.10 (minimum)
 - For a Supply Source Station: Software Version 6.2.14 (minimum)

7.4 AWS Configuration

In order to use your scanner module with the Administrative Work Station you will need to do the following:

- Verify that your scanner module had been activated at the AWS under Maintenance/Client/DT/Properties. If there is an N in the SmartStock field then your scanner has not been enabled and you should contact the Help desk (see above).
- Under Maintenance/Configuration/Client select the AWS that will have the scanner. Select Properties and enable SmartStock with a Y for Yes and hit OK.
- Determine if Dispense Verification should be enabled. If it is to be enabled, the AWS is used to update the Dispense Verification setting at the department level by selecting the Verify Dispense option. This is to be determined and performed by authorized hospital personnel.
- If you want to use your scanner for Barcode Registration you will need a system administrator to enable these rights for you at the AWS by selecting Maintenance/User/UserBrowser/Details. Under the System tab check Barcode Registration as an access right for the desired user.

8. Notes

9. Trouble Shooting and Contact Information

The following table is for reference purposes only.

LED Indicators on Scanner	Description
No Red or Green LED	No power from host or transformer; see below.
Steady Green LED	Laser is active and ready.
Steady Green with single Red Flash	Successful read of barcode (one beep also heard)
Steady Green and Steady Red	Host not ready to accept information; see below.
Steady Green and Flashing Red	Scanner is in program mode.
Steady Red, Green off	Scanner may be waiting for information from host.
Flashing Green and 1 Razz Tone	Laser failure; see below.
Flashing Red and Green and 2 Razz Tones	Motor failure; see below.
Continuous Razz tone with both LEDs off	Electronics failure; see below.
Three beeps on power up	Non-volatile memory failure; see below.

The following table is for reference purposes only. If your problem is not listed, call MedSelect Client Support at: **1-800-508-4576**.

Symptoms	Possible Cause(s)	Solution
No LEDs, beep or motor spin	No power is being supplied to the scanner	Check transformer, outlet and power strip. Make sure the cable is plugged into the scanner
Scanner Locks up (both LEDs stay on)	Host not ready to accept information	Contact MedSelect Client Support
3 beeps on power-up	Non-volatile RAM failure	Contact MedSelect Client Support
Continuous razz tone on power-up	RAM or ROM failure	Contact MedSelect Client Support
Razz tone and green LED flash	VLD failure	Contact MedSelect Client Support
Razz tone and both LEDs flash	Scanner motor failure	Contact MedSelect Client Support
The unit powers up, but does no scan and/or beep	Scanning a particular symbology that is not enabled	Contact MedSelect Client Support
The unit powers up, but does no scan and/or beep	Scanner window dirty	Using normal glass-cleaner, spray scanner window and wipe with non-abrasive cloth.
Scanner appears to work but does not send data to Display/DT-CPU	Scanner Module not enabled on DT	Contact MedSelect Client Support
Restock mode works, but Dispense Verification does not	Dispense Verification not enabled on DT	Contact MedSelect Client Support

