STAR 2000™

STAR Fax Installation Manual

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Reader comments

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Documentation Conventions

Documentation for McKesson's STAR 2000™ line of products follows these conventions:

Revisions
Text revisions are indicated by a change bar in the left margin. Paragraphs that contain grammatical changes that do not affect content are not marked.

Canadian Documentation
This volume may include documentation for Canadian users of this product. Complete sections of Canadian text are identified by "CN" and "CN Only."

Key Names
Named keys, such as SHIFT, CTRL, ALT, and ENTER, are displayed in this document in uppercase (capital) letters. A symbol key is written as text in this document followed by the symbol in parentheses, such as hyphen (-) and asterisk (*).

Key Chords
Key chords are key entries that require you to hold down one or more keys (typically, CTRL, ALT, or SHIFT) before pressing another key. In this document, key chords are displayed as the names of each key in the chord separated by a hyphen (-) (for example, CTRL-ALT-DEL).

Enter
ENTER is a key on a computer keyboard used to complete an entry on a STAR system. (This key may also be referred to as NEW LINE or NL in the STAR system.)

Data Entries
Letters or words you enter in response to the system are displayed in **bold** letters in this document. For example: Enter **Y** for Yes or **N** for No.

Selecting an Entry
This document often instructs you to "select an entry." The method you use to select an entry depends on whether you are using STAR from a terminal or IBM-compatible personal computer. Entry methods include:

- Entering the option number

- Using your arrow keys to highlight the option and pressing ENTER

- Clicking on the option using a mouse or other pointing device (PC only)

For more information about these options, see the *General Information Volume*.

Prompts
System prompts are displayed at the bottom of many STAR screens when the system requests an entry or displays a message. In this document, these prompts are indented and the text italicized, as shown in the following example:

Enter patient name--

Field Characteristics

STAR product documentation provides field explanation codes, in addition to a narrative description for each field on a screen. These codes display the maximum length of your entry in the field, the type of entry you make in the field, and whether the field is required. This information displays in the following format:

• DISPLAY ONLY for a field you cannot edit.

• For X-YY-Z field types, where:

  - X is the maximum number of characters permitted in the field:

    - P for a field length determined by a Parameter

    - T for a field length determined by a Table

    - U for a field having an Undefined length

  - YY is the type of entry technique permitted in the field:

    - A for Letters only

    - AC for Letters and Punctuation only (no numbers)

    - AN for Numerals and Letters only (no punctuation)

    - C for Characters (including punctuation)

    - N for Numerals only

    - NC for Numerals and Punctuation only (no letters)

  - Z is the requirement indicator of the field:

    - C if an entry is Conditionally required or optional

    - O if an entry is Optional to complete the function

    - R if an entry is required to complete the function

      NOTE: Facilities can designate that certain fields be Required. STAR product documentation does not display R for fields designated as Required by a facility.

  - For YY-Z field types, where YY is:

    - DATE for a field subject to the date entry conventions described in the *General Information Volume*.

    - SPECIAL FORMAT for a field having data entry requirements not conforming to standard format. The field definition contains the specific data entry requirements for the field.

    - TABLE LOOKUP for a field that enables you to select from a displayed table. See the *General Information Volume* for more information regarding this entry technique.

    - TIME for a field subject to the time entry conventions described in the *General Information Volume*.

    NOTE: For use of the Z position in this format, refer to the explanations for Z under X-YY-Z.

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Chapter 1 - STAR FAX INSTALLATION

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OVERVIEW

This document provides an overview of the functionality available with McKesson's STAR Fax system. It is provided to assist you in understanding the design, implementation, and maintenance of STAR Fax to your information system. For more information regarding the configuration of specific fax hardware, consult the McKesson documentation accompanying the hardware. For more information regarding the setup of the hardware with your STAR system, see the *MultiSTAR Software Environment Operations Guide*.

What is STAR Fax?

McKesson's STAR Fax system provides outbound fax capability to STAR products users. With STAR Fax, STAR product users have the ability to fax information such as results, reports, and facesheets to locations within the hospital or to doctors' offices and other remote facilities. With minimal user intervention, you can provide quick response to requests for information, reducing the time for a physician to receive patient information.

System Components

The STAR Fax system consists of several hardware and software components illustrated in the diagram on the next page.

- **The host minicomputer,** running the following software:

    - MultiSTAR Software Environment

    - STAR application software

    - STAR system utility software (Spooler functions)

- **The fax device**. The following fax devices are currently supported:

    - DCE FaxBox/30 Model 1

    - DCE FaxBox/30 Model 2

- **A link between the host minicomputer and the fax device**, either via a Synoptics or Xyplex termserver.

- **A dedicated phone line for each fax device**.

STAR Fax System Components

User

A

STAR Application

Report

B

C

Spooler

Demand Print

User

D

Printer

Print

Print or Fax?

Fax

Fax Device

E

Fax Machine
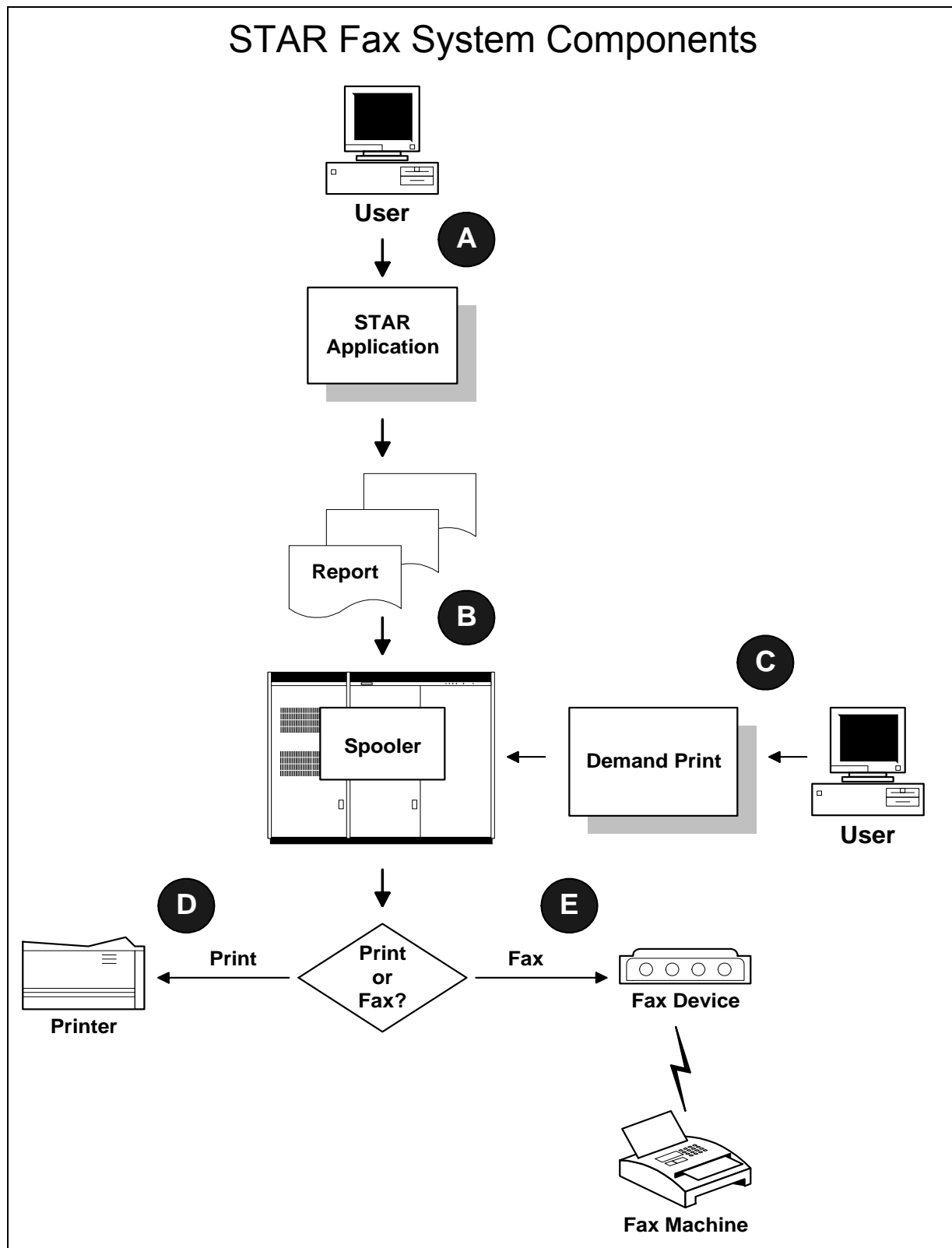
This diagram illustrates the hardware, software, and processes involved in transmitting a fax using the STAR Fax system. These processes include:

- **Faxing a report to be sent automatically to a fax device.**

  Using the **Reports Maintenance** function, reports can be defined to be sent automatically to a fax device.

  - First, the user generates a report from a STAR application (A).

  - The report is sent to the Print Spooler (B).

  - If the report is defined to be sent to a printer, the system sends the report to the appropriate printer (D). If the report is defined to be sent to a fax device, the system sends the report to the device (FaxBox/30 in this example) (E).

    Reports are set up to be sent to a printer and/or fax using the Reports Maintenance function. Reports can be defined to route to printers and fax devices at the same time. The ports to which fax devices are attached must be established as device type Printer using the Port Modification utility.

  - The fax device transmits reports on a first in/first out basis.

- **Faxing a report that is already generated.**

  Using the **Demand Print** function, you can fax any report that has already been generated.

  - First, a user generates a report from a STAR application (A).

  - The report is sent to the Print Spooler (B).

  - The Print Spooler sends the report to the printer (D).

  - Using the Demand Print function (C), the user routes the report to the fax device.

  - The fax device transmits reports on a first in/first out basis (E).

INSTALLATION

This section discusses the steps required to install and configure STAR Fax on your system. McKesson provides hardware-specific installation and configuration information with your hardware.

The steps used to install STAR Fax on your system are:

1. Set up the fax device hardware and connect it to the host computer.

2. Using the **Port Modification** utility configure the port to which the fax device is attached. You must define this port as device type Printer, and then select the appropriate hardware from the list.
    For more information, see the documentation for the Port Modification utility in the *MultiSTAR Software Environment Operations Guide*.

3. Set up a **Printer Name** that uses the above port.
    For more information, see the documentation for Printer Maintenance in the *MultiSTAR Software Environment Operations Guide*.

4. Test the fax device installation. You can do this by sending a report to the Printer Name set up in the preceding step. Send this report using the Demand Print or View Spooled Reports function.

After the fax device is installed, you can define additional site-specific information. using the following functions:

CREATE DISTRIBUTION LISTS

Use the Distribution Lists function to maintain fax distribution lists. Distribution lists provide a quick method for users to specify fax sending information for frequently used destinations. If users send fax requests via the Demand Print, View Spooled Reports, or Reports Maintenance functions, they can select a fax distribution list instead of having to enter sending information manually.

SET UP PHONE PREFIXES/SUFFIXES

Use the Prefix/Suffix Maintenance function to turn prefix/suffix functionality on and off and to define prefixes and suffixes to append to phone numbers. If prefix/suffix functionality is active, when a phone number for a receiving fax machine is entered, the system verifies phone numbers and appends the appropriate prefix and/or suffix prior to submitting the fax requests to the fax device.

NOTE: McKesson highly recommends that you use the Prefix/Suffix function.

COVER PAGE

Use the Cover Page function to define cover pages for your fax transmissions. The system automatically displays the Hospital Name, To, From, and Date information on all cover pages, regardless of whether a cover page has been defined. This function provides you the ability, using print control sequences, to define information to display above and below this information.

In addition, the following functions are provided for you to use in maintaining the transmission of fax reports using STAR Fax.

QUEUE REVIEW

The Queue Review function provides the ability to review the current status of print jobs waiting to print on the various devices handled by the spooler. This function displays all reports, whether sent to a fax device or to another device.

FAX AUDIT

The Fax Audit function displays information about the transmission of a fax report. For any fax report generated, you can display the name of the device to which it was sent, the date and time it was sent, and additional status information regarding whether the report was acknowledged by the remote fax device and, if not, reasons for the failure of the transmission.

ENABLE STAR FAX

The Enable STAR Fax function activates system-wide fax capability, so that when you print a report using a STAR application, the system prompts whether you want the report sent to a fax device.

These functions are located on the Spooler menu. For more information, see Spooler Functions in the *MultiSTAR Software Environment Operations Guide*.

FAX TRANSMISSION STATUSES

You can display the status of a fax report transmission using the Fax Audit function, located under the STAR Fax menu in Spooler functions. The following statuses may be encountered with the STAR Fax system:

Transmission Status Message	Explanation
Fax Sent OK	The fax was sent successfully.
No Dial Tone	The local fax device could not connect to a phone line.
Busy	The phone line at the remote fax device was in use.
Could Not Connect	The remote fax device did not answer or something other than a fax device responded. For this error, the system does not continue to attempt the fax transmission.
Failure to Train	The remote and local fax devices could not synchronize communications.
Disconnected	The transmission was interrupted in progress.
Incompatible Fax	The remote fax device is not using an acceptable protocol.
Device Reset	Power to the local fax device was interrupted or the reset button was pressed during transmission.
Response Timeout	The local fax device did not respond to the system spooler in the established time frame.
Deleted	The fax was deleted and cannot be resent.
Max Retries Exceeded	The system has retried sending a local or long distance fax transmission for the maximum number of retries specified and failed on the last specified try. The fax is deleted from the queue and is not resent.
Invalid Phone Number	The phone number provided is invalid based on a validity check. A valid phone number can be incorrect.

For all of these statuses except Deleted, Max Retries Exceeded, Invalid Phone Number, Fax Sent OK, and Could Not Connect, the system attempts to transmit the fax report until either the report is received by all fax machines on the distribution list or until 24 hours after the number of days set in the Retention Days field in Reports Maintenance has elapsed

THE FAXBOX/30

Use these instructions to install and configure the DCE FaxBox/30 (Version F141E4.1 B581 ID D) with the following characteristics into the McKesson STAR environment:

Asynchronous Baud Rate:	**19200 bps**
Character Size:	**8 data bits, 1 stop bit**
Parity	**None**
Session Control:	**None**
Flow Control:	**hardware flow control (CTS/DTR)**
Default Lines Per Inch:	**6**
Default Characters Per Inch:	**10**

The FaxBox/30 is a serial device connected to the McKesson network like a serial printer. The FaxBox/30 must be attached to the host from a termserver port.

Installing the FaxBox/30

To install the FaxBox/30 in the STAR environment, proceed as follows:

1. Configure the FaxBox/30 using the step-by-step instructions provided in the next part, Configuring the FaxBox/30. Instructions are provided for Model 1 and Model 2.

2. Select the asynchronous port type to which the FaxBox/30 is to be attached. Then, configure the port as outlined in the Asynchronous Port Configuration section for that port type. Examples are provided for the McKesson-certified port types:

    • SynOptics 3395A (6- & 8-pin) Termservers

    • DECserver 700 (8-port; Telnet)

    • Hughes 4208 Termserver

3. Select and build the appropriate cable for your port type from the illustrations in the Cable Configurations section and attach the FaxBox/30.

4. At this point, you are ready to enable STAR Fax, set up the STAR Printer Definitions, and set up Reports Maintenance.

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Configuring the FaxBox/30

To configure the DCE FaxBox/30 for connection into the McKesson STAR environment, please perform the following steps:

1. Attach the power cable and plug the unit into a properly grounded wall outlet (100-120V~ @ 0.1A).

2. Attach a terminal device (9600 baud, 8 data bits, no parity) to the serial port of the FaxBox/30 marked Host Interface. This terminal device may either be a computer with communications software, or a terminal with a serial port (EIA232) connected directly to the FaxBox/30 serial port.

   NOTE: For temporary connection between the FaxBox/30 and a DTE terminal device, use a straight through DB25 cable. After the configuration changes are saved, connect the FaxBox/30 to the CPU using the asynchronous cable recommended in the Cable Configuration part of this manual. The FaxBox/30 configuration requires that the host (or termserver) provide hardware flow control on pin 20 (DTR) of the FaxBox/30 serial port for the FaxBox/30 to output messages to the host.

3. Enter the characters **^p** (Not <CTRL>p) to access the configuration mode of the FaxBox/30 and determine the model. The FaxBox/30 responds with the model number and the release version followed by the ready indicator (OK).

   • If your FaxBox responds with "**F1. . .** " like "**F1**41E4.1 - Setup," use the instructions for **FaxBox/30 Model 1** to set the new configuration parameters.

   • If your FaxBox responds with "**F2. . .**" like "**F2**00A0.7 - Setup," use the instructions for **FaxBox/30 Model 2** to set the new configuration parameters.

FAXBOX/30 MODEL 1 CONFIGURATION PARAMETER SETUP (STEP 3)

Use these instructions to configure the parameters for the Model 1 FaxBox/30.

   a. Enter **DEF=Y** to set the configuration of the FaxBox/30 to the default. The FaxBox/30 responds with OK.

   b. Enter **HBD=P** to set the baud rate to 19200 bps.

   c. Enter **SML=D** to enable the Page Status message 18.

   d. **Optional.** Set the **Called Subscriber Identification** string. The string is displayed in the banner at the top of every page of the transmitted fax document. The string can be up to 20 alpha-numeric characters. For example: **CSI=HBO & Company**. The default setting is null.

   e. Enter **DTD=B** to detect dial tone before dialing.

f. Enter **SAV=Y** to save the new configuration.

g. Enter an asterisk followed by a question mark (*?) to display the current configuration and compare with the following FaxBox/30 key parameter settings and explanations:

FaxBox/30 Model 1	
Parameter Setting	**Description**
VER - F141E4.1	
SER - 35571	
TYP - 112	
MEM - 32	
SHP - A	Set to B for short last page
HBD - P	P for 19200 bps
HPY - A	No parity - 8 Data Bits
STB - A	1 Stop Bit
FLC - A	A for CTS/DTR; B for XON/XOFF flow control
SML - D	Enables System Message 18 for Page Status
SXN - 00	
SXF - 00	
EOL - 00	
CCR - 5E	
TSP - 1	
SSD - 3C	
SED - 3E	
HTO - 10	
PFR - 0	
PTO - 30	
IDS - "DCE"	
CSI - "HBO & Company"	Optional 20 Character string
EAC - ""	
IAC - "011"	
ESN - "911"	
NFS - D	
SFS - B	
CFR - A	

FaxBox/30 Model 1	
Parameter Setting	**Description**
LSP - A	6 Lines Per Inch
LLN - A	10 Characters Per Inch
ICS - 0	
CEQ - A	
TXL - 90	
CDL - A	
DPD - A	
DTD - B	Detect Dial Tone Before Dialing
DBD - 4000	
PID - 1000	
PCT - 30	
PDT - 70	
PIT - 800	
DTT - 100	
DIT - 100	
DLL - 110	
DUL - 90	
RDF - C	
MRS - D	
IOM - B	
TCS - A	

h. After verifying that the parameters are correct, enter the characters **^t** (not <CTRL>t) to exit configuration mode.

i. Proceed to Step 4.

FAXBOX/30 MODEL 2 CONFIGURATION PARAMETER SETUP (STEP 3)

Use these instructions to configure the parameters for the Model 2 FaxBox/30.

a. Enter **DEF=Y** to set the configuration of the FaxBox/30 to the default. The FaxBox/30 responds with OK.

b. Enter **CTY=23** to set the country code for the United States of America (USA).

c. Enter **HBD=P** to set the baud rate to 19200 bps.

d. Enter **SML=D** to enable Page Status message 18.

e. Enter **NFS=D** to set the normal fax speed to 9600 baud.

f. **Optional.** Set the **Called Subscriber Identification string**. The string is displayed in the banner at the top of every page of the transmitted fax document. The string can be up to 20 alpha-numeric characters.
For example: **CSI=HBO & Company**. The default setting is null.

g. Enter **DTD=B** to detect dial tone before dialing.

h. Enter **SAV=Y** to save the new configuration.

i. Enter an asterisk followed by a question mark (*?) to display the current configuration and compare with the following FaxBox/30 key parameter settings and explanations. The complete list of parameters for Model 2 need to be set like these:

FaxBox/30 Model 2	
Parameter Setting	**Description**
F200A0.7	Setup
OK	
VER - F200A0.7	
SER - 44717	
TYP - 112	
MEM - 64	
CTY - 23	Country code - USA
SHP - A	Set to B for short last page
HBD - P	19200 baud
HPY - A	No parity - 8 databits
FLC - A	A for CTS/DTR; B for XON/XOFF flow control
SML - D	Enable System message 18

FaxBox/30 Model 2	
Parameter Setting	**Description**
SXN - 00	
SXF - 00	
EOL - 00	
CCR - 5E	
TSP - 1	
SSD - 3C	
SED - 3E	
HTO - 10	
PFR - 0	
PTO - 30	
IDS - "DCE"	
CSI - ""	Optional 20 character string
TBN - A	
BBN - A	
ATT - ""	
NAM - ""	
EAC - ""	
IAC - "011"	
ESN - "911"	
ECM - B	
NFS - D	Normal fax speed 9600 baud
SFS - B	
CFR - A	
LSP - A	6 lines per inch
LLN - A	10 characters per inch
FLN - 0	
ICS - 0	
CEQ - A	
TXL - 100	
CDL - A	
DPD - A	
DTD - B	Detect Dial Tone
CDS - A	

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FaxBox/30 Model 2	
Parameter Setting	**Description**
MET - A	
RNG - 0	
LMN - B	
DBD - 1000	
PID - 1000	
PCT - 30	
PDT - 70	
PIT - 800	
DTT - 100	
DIT - 100	
DLL - 110	
DUL - 90	

   j. After verifying that the parameters are correct, enter the characters **^t** (not <CTRL>t) to exit configuration mode.

   k. Proceed to Step 4.

4. Connect the appropriate cable to the FaxBox/30 and the termserver port.

5. Verify that the fax phone line is active by connecting a phone and listening for a dial tone. If the phone line is active, plug it into the RJ-11 socket of the FaxBox/30 marked **Line**.

   NOTE: For FaxBox/30 Model 1, the **Speaker Switch** on the back of the unit can be turned OFF to eliminate some noise pollution.

Asynchronous Port Configurations

This part provides examples of port configurations. Find the port type that corresponds to your system and then follow the applicable directions.

When attaching the FaxBox/30 to your system, be sure to use the appropriate cable as illustrated in the Cable Configurations in this manual. The McKesson recommended port configurations provided are:

- Configuration of the SynOptics Termserver Port for the Attachment of the FaxBox/30

- Configuration of the Xyplex Termserver Port for the Attachment of the FaxBox/30

- Configuration of the DECserver 700 Port for the Attachment of the FaxBox/30

- Configuration of the Hughes 4208 Termserver Port for the Attachment of the FaxBox/30

CONFIGURING SYNOPTICS TERMSERVER PORT FOR ATTACHMENT OF FAXBOX/30

The FaxBox/30 must be configured with hardware flow control (CTS/DTR) and 19200 bps as explained earlier in Configuring the FaxBox/30. Refer to the appropriate SynOptics administrative documentation to configure the port. Below is an example of a SynOptics termserver port configuration for the attachment of the FaxBox/30 on port 6.

```
TS3395>> show port 6

Port 6:  (Remote)                               21 Sep 1994  14:58:24

Character Size:8        Input Speed:19200

Flow Control:  CTS     Output Speed:19200

Parity:          None   Modem Control:Disabled

Access:          RemoteLocal Switch:None

Backwards Switch:NoneName:FAXBOX_2

Break:           Local   Session Limit:1

Forwards Switch:NoneType:Soft

Preferred Service:None

Authorized Groups:0

(Current)  Groups:0

Enabled Characteristics:

Input Flow Control,  Output Flow Control
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│ TS3395>> show port 6 alternate char                                           │
├─────────────────────────────────────────────────────────────────────────────┤
│ Port 6:  (Remote)                                       21 Sep 1994  14:58:32 │
│                                                                               │
│ Resolve Service:      Any            DTR wait:              Disabled          │
│ Idle Timeout:         0              Typeahead Size:        128               │
│ SLIP Address:         0.0.0.0        SLIP Mask:             0.0.0.0           │
│ Remote SLIP Addr:     0.0.0.0        Default Session Mode:  Passall           │
│ TCP Window Size:      256            Prompt:                TS3395            │
│ DCD Timeout:          2000           Dialback Timeout:      20                │
│ Stop Bits:            1              Script Login:          Disabled          │
│                                                                               │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│ TS3395>> show port 6 telnet char                                              │
├─────────────────────────────────────────────────────────────────────────────┤
│ Port 6:  (Remote)                              21 Sep 1994  14:58:38          │
│                                                                               │
│ Abort Output Character:   None      Newline:               CR/NULL            │
│ Attention Character:      None      Newline Filtering:     None               │
│ Default Port:             23        Query Character:       None               │
│ Echo Mode:                Remote    Remote Port:           7006               │
│ Erase Keystroke Character:None      Synchronize Character: None               │
│ Erase Line Character:     None      Transmit:              Buffered           │
│ Interrupt Character:      None      Binary Session Mode:   PASSALL            │
│ Terminal Type:            None      Tn3270 Device:         None               │
│ Tn3270 Translation Table: None                                               │
│ Enabled Characteristics:                                                      │
│                                                                               │
└─────────────────────────────────────────────────────────────────────────────┘
```

The newly configured SynOptics termserver port is a ***virtual*** port type. Use the **STAR Port Modification Utility** (U/M/9/P) to add the STAR port configuration for the attachment of the FaxBox/30. Refer to the following example of the SynOptics termserver port - 139.177.254.161 port 6; STAR port 98.

```
                  General Hospital Port Modification Utility
                                          Wed Dec 07, 1994 04:07 pm
   Last edited by : Smith, Walter J   01/01/93 1030
 1 Port Number              2 Device Class            3 Logon Allowed
   98                          Virtual                   No
 4 Sign-on Keys


 5 Spool Status             6 Comment
   On                         FAXBOX/30 ON TERMSERVER
 7 Device Type              8 Answer Back             9 Terminal Type
   PRINTER, FaxBox/30         No                        n/a
10 Protocol                11 Address                12 Port
   TCP                        139.177.254.161          7006
13 Keyboard Type           14 Direction
   n/a                        n/a
15 Location                16 Cable Number           17 Phone Number
   ITF LAB                    1514
```

CONFIGURING XYPLEX TERMSERVER PORT FOR ATTACHMENT OF FAXBOX/30

The FaxBox/30 must be configured with hardware flow control (CTS/DTR) and 19200 bps as explained earlier in Configuring the FaxBox/30.   Refer to the appropriate Xyplex administrative documentation to configure the port. Below is an example of a Xyplex termserver port configuration for the attachment of the FaxBox/30 on port 6.

```
 TS3395>> show port 6

 Port 6:  (Remote)                 21 Aug 1997  14:58:24

 Character Size:     8             Input Speed:         19200
 Flow Control:       CTS           Output Speed:        19200
 Parity:             None          Modem Control:       Disabled

 Access:             Remote        Local Switch:        None
 Backwards Switch:   None          Name:                FAXBOX_2
 Break:              Local         Session Limit:       1
 Forwards Switch:    None          Type:                Soft

 Preferred Service:  None

 Authorized Groups:  0
 (Current)  Groups:  0

 Enabled Characteristics:

 Input Flow Control,  Output Flow Control
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│ TS3395>> show port 6 alternate char                                           │
├─────────────────────────────────────────────────────────────────────────────┤
│ Port 6:  (Remote)                        21 Aug 1997  14:58:32                 │
│                                                                                │
│                                                                                │
│ Resolve Service:      Any          DTR wait:                Disabled           │
│ Idle Timeout:         0            Typeahead Size:          128                 │
│ SLIP Address:         0.0.0.0      SLIP Mask:               0.0.0.0             │
│ Remote SLIP Addr:     0.0.0.0      Default Session Mode:    Passall            │
│ TCP Window Size:      256          Prompt:                  Xyplex             │
│ DCD Timeout:          2000         Dialback Timeout:        20                  │
│ Stop Bits:            1            Script Login:            Disabled            │
│ TCP Keepalive Timer:  0            Nested Menu Top Level:   0                  │
│ Nested Menu:          Disabled     Username Filtering:      None               │
│ Command Size:         80                                                       │
│                                                                                │
└─────────────────────────────────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────────────────────────────────┐
│ TS3395>> show port 6 telnet char                                              │
├─────────────────────────────────────────────────────────────────────────────┤
│ Port 6:  (Remote)                        21 Aug 1997  14:58:38                 │
│                                                                                │
│ Abort Output Character:     None       Newline:               CR/NULL          │
│ Attention Character:        None       Newline Filtering:     None             │
│ Default Port:               23         Query Character:       None             │
│ Echo Mode:                  Remote     Remote Port:           7006             │
│ Erase Keystroke Character:  None       Synchronize Character: None             │
│ Erase Line Character:       None       Transmit:              Buffered         │
│ Interrupt Character:        None       Binary Session Mode:   PASSALL          │
│ Terminal Type:              None       Tn3270 Device:         None             │
│ Tn3270 Translation Table:   None       Tn3270 Printer Port:   Any              │
│ Local Port:                 4600                                               │
│ Enabled Characteristics:                                                       │
│                                                                                │
└─────────────────────────────────────────────────────────────────────────────┘
```

The newly configured Xyplex termserver port is a *virtual* port type. Use the **STAR Port Modification Utility** (U/M/9/P) to add the STAR port configuration for the attachment of the FaxBox/30.

Refer to the following example of the Xyplex termserver port - 139.177.254.161 port 6;
STAR port 98.

```
                        General Hospital Port Modification Utility
                                                    Wed Dec 07, 1994 04:07 pm
    Last edited by : Smith, Walter J   01/01/93 1030
 1 Port Number              2 Device Class              3 Logon Allowed
   98                         Virtual                     No
 4 Sign-on Keys


 5 Spool Status             6 Comment
   On                         FAXBOX/30 ON TERMSERVER
 7 Device Type              8 Answer Back               9 Terminal Type
   PRINTER, FaxBox/30         No                          n/a
10 Protocol                11 Address                  12 Port
   TCP                        139.177.254.161             7006
13 Keyboard Type           14 Direction
   n/a                        n/a
15 Location                16 Cable Number             17 Phone Number
   ITF LAB                    1514
```

CONFIGURING DECSERVER 700 PORT FOR ATTACHMENT OF FAXBOX/30

Listed below is an example of a Digital Equipment Corporation (acquired by Compaq
Computer Corporation®) DECserver 700 configured for the attachment of the FaxBox/
30. The FaxBox/30 must be configured with hardware flow control (CTS/DTR) and
19200 bps as explained earlier in the Configuring the FaxBox/30. Refer to the
appropriate DECserver administrative documentation to configure the port and server
parameters as the example for port 3 illustrates below:

Local> list telnet listener 2003
Listener TCP-port: 2003 Identification: FaxBox/30 Ports: 3 Connections: Enabled

```
Local> list port 3
```

Port 3:	Server: AT0044		
Character Size:	8	Input Speed:	19200
Flow Control:	CTS	Output Speed:	19200
Parity:	None	Modem Control:	Disabled
Stop Bits:	Dynamic		
Access:	Remote	Local Switch:	None
Backwards Switch:	None	Name:	FAXBOX_PORT
Break:	Disabled	Session Limit:	1
Forwards Switch:	None	Type:	Soft
Default Protocol:	Telnet	Default Menu:	None
Preferred Service:	None		
Authorized Groups:	0		

Enabled Characteristics:
Input Flow Control, Output Flow Control

```
Local> list port 3 telnet client
```

Port 3

Profile:	Binary		
Echo:	Remote	Newline From Term:	<CR>
Toggle Echo:	^E	Newline From Host:	<CRLF>
Binary:	Duplex	Newline To Term:	<CRLF>
Xmit Char Size:	8	Newline To Host:	<CRLF>
Rcv Char Size:	8	Input Flow Control:	Disabled
Signal Req:	Disabled	Output Flow Control:	Disabled
IP:	+s +f	^Y Verification:	Disabled
SYNCH:	+s -f	^X Switch Character:	Disabled
AYT:	-s -f	^T Quote:	None
AO:	-s +f	^O	
EOR:	-s -f	None	
BRK:	-s -f	None	

```
Local> list port 3 telnet server
```

Port 3

Xmit Char Size:	8	Newline From Term:	<CRLF>
Rcv Char Size:	8	Newline From Host:	<CRLF>
IP:	None	Newline To Term:	<CRLF>
AYT:	None	Newline To Host:	<CRLF>
AO:	None	EC:	None
EOR:	None	EL:	None
NOP:	None	BRK:	None
Echo Negotiation:	Initiate		

The newly configured DECserver 700 port is a ***virtual*** port type. Use the STAR **Port Modification Utility** (U/M/9/P) to add the STAR port configuration for the attachment of the FaxBox/30 as in the DECserver port - 139.177.254.144 port 3; STAR port 98 example.

```
                    General Hospital Port Modification Utility
                                             Wed Dec 07, 1994 04:07 pm
   Last edited by : Smith, Walter J   01/01/93 1030
 1 Port Number             2 Device Class           3 Logon Allowed
   98                         Virtual                  No
 4 Sign-on Keys


 5 Spool Status            6 Comment
   On                        FAXBOX/30 ON DECSERVER
 7 Device Type             8 Answer Back            9 Terminal Type
   PRINTER, FaxBox/30        No                       n/a
10 Protocol               11 Address               12 Port
   TCP                       139.177.254.144          2003
13 Keyboard Type          14 Direction
   n/a                       n/a
15 Location               16 Cable Number          17 Phone Number
   ITF LAB                     1514
```

CONFIGURING HUGHES 4208 TERMSERVER PORT FOR ATTACHMENT OF FAXBOX/30

Listed below is an example of a Hughes 4208 termserver port configuration for the attachment of the FaxBox/30. The FaxBox/30 must be configured with hardware flow control (CTS/DTR) and 19200 bps as explained earlier in Configuring the FaxBox/30.

Refer to the appropriate Hughes administrative documentation to configure the port as the example for port 1 illustrates below.

```
139.177.8.120 Admin:stat 1

HLS 4208     PORT: 1  DESC:                    10-07-94  10:14:41
--------------------- PORT CONFIGURATION ---------------------
********* EIA STATUS *********     ** CONTROL **   **** DATA ****
PIN EIA STATE     PIN EIA STATE    DTR:     OFF    DATA:     8
5   CTS   +       4   RTS   +      DSR:     OFF    PARITY:   NONE
6   DSR   +       20  DTR          DCD:     OFF    STOPS:    1
8   DCD           25  AB           LISTEN:  ON     BAUD (IN):19200
                                   LOOPBACK: OFF      (OUT):19200


*** PACING ****      **** INPUT ****          **** OUTPUT ****
     IN   OUT      EOM:      NONE          ECHO:     LOCAL
FLOW: EIA   EIA    NEWLINE:  0D            QUIET:    ON
XON:  11    11     IDLE:     5             MESSAGE:  OFF
XOFF: 13    13     BINARY:   ON            AUTOBAUD: OFF
STATE:GO    GO     DELETE:   08            NEWLINE:  0D
                                          EXPAND:   0A
*SESSION CONTROL*    **** ACCESS *****    **** SPECIAL CHARS ***
TIMEOUT:   0         LOCAL LOGIN: NONE    AYT:  NONE   AO:  NONE
HOTKEY:  NONE,NONE   NET LOGIN: NONE      IP:   NONE   BRK: NONE
                     PORT NAME: PORT1     COMMAND:  NONE
139.177.8.120 Admin:sstat 1

HLS 4208     PORT: 1  DESC:                    10-07-94  10:14:43
-------------- U S E R   P A R A M E T E R S ---------------
LOGIN NAME:    PORT1                        MODE:     COMMAND
PRIVILEGE:   3          PENTRY:             PCALL:    OFF
MAXSESSION:  1          PROMPT:   #         TERM TYPE:NONE
PORTIP    ***** NOT DEFINED *****


--------- C O N N E C T I O N S   I N   P R O G R E S S ---------
 NO HOSTNAME        NETWORK ADDRESS     STATE   PROTOCOL  PORT
  ***** NO ENTRIES *****
```

The newly configured Hughes termserver port is a *virtual* port type. Use the STAR **Port Modification Utility** (U/M/9/P) to add the STAR port configuration for the attachment of the FaxBox/30 as in the following **Hughes termserver port - 139.177.8.120 port 7001; STAR port 98** example.

```
                    General Hospital Port Modification Utility
                                              Wed Dec 07, 1994 04:07 pm
      Last edited by : Smith, Walter J   01/01/93 1030
  1 Port Number              2 Device Class            3 Logon Allowed
    98                         Virtual                   No
  4 Sign-on Keys


  5 Spool Status             6 Comment
    On                         FAXBOX/30 ON TERMSERVER
  7 Device Type              8 Answer Back             9 Terminal Type
    PRINTER, FaxBox/30         No                        n/a
 10 Protocol                11 Address                12 Port
    TCP                        139.177.8.120           7001
 13 Keyboard Type           14 Direction
    n/a                        n/a
 15 Location                16 Cable Number           17 Phone Number
    ITF LAB                    1514
```
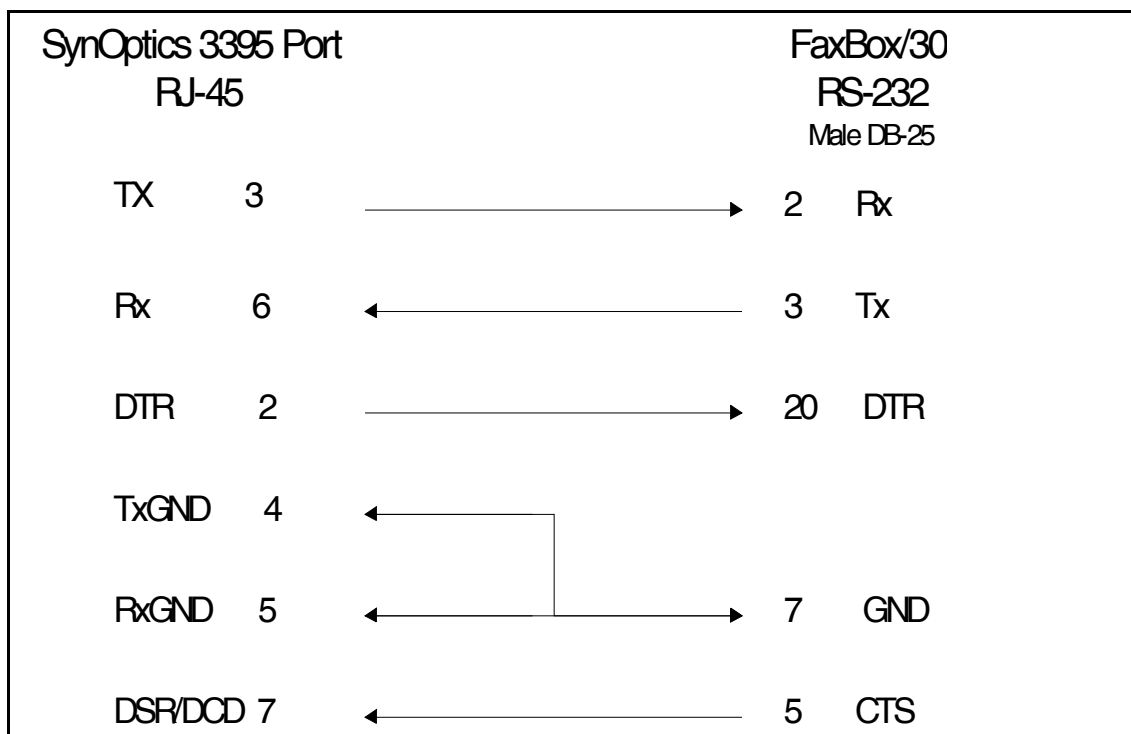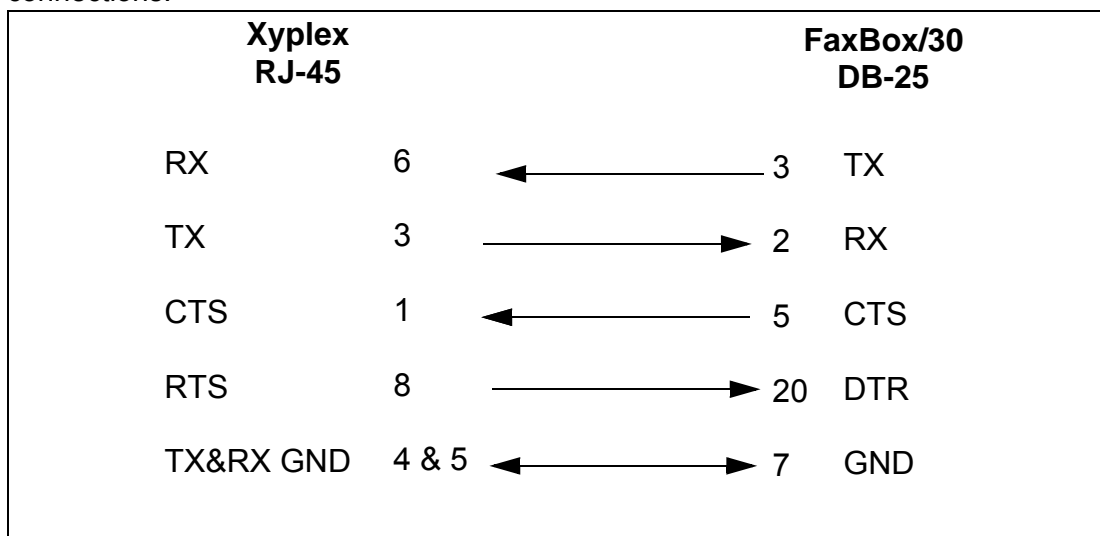
Cable Configurations

This section illustrates the configurations of the McKesson recommended cables used to attach the DCE FaxBox/30 to various asynchronous port types. These port types require special configurations. Refer to the Asynchronous Port Configurations section for specific configuration requirements of each port type.
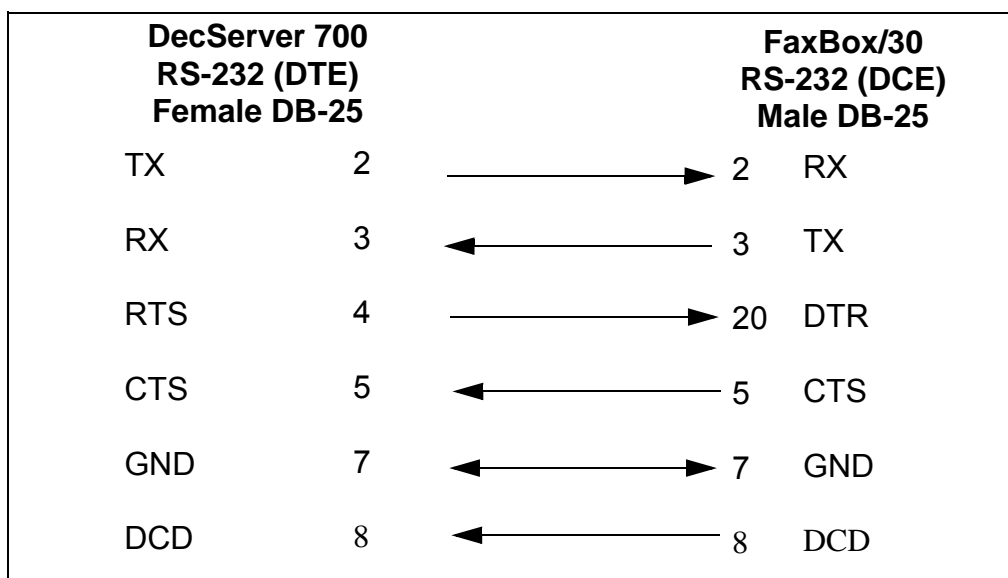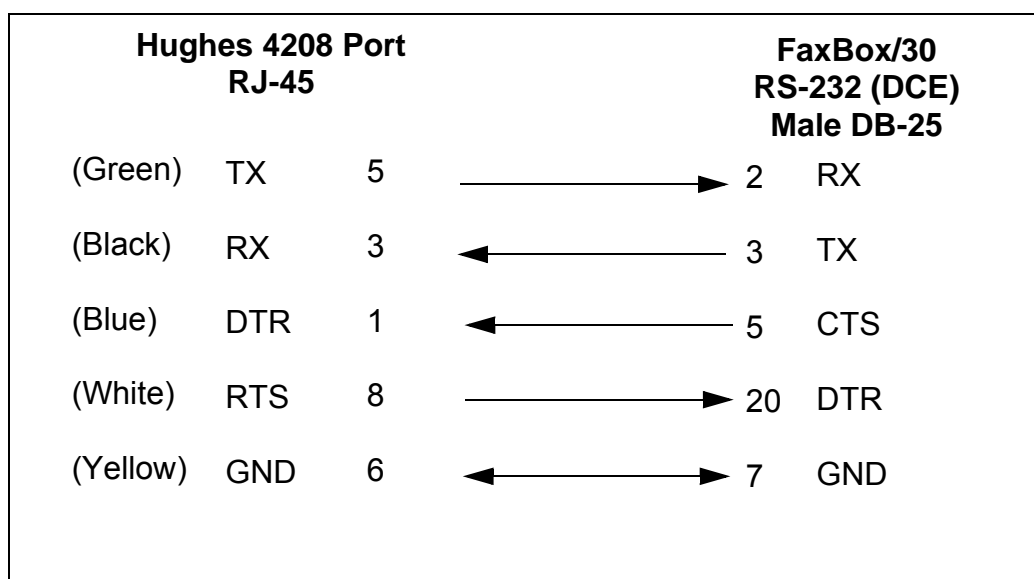
The following McKesson recommended cable configurations are provided for:

•   Attaching the FaxBox/30 to a SynOptics 3395A Termserver Port
    (6-pin connector)

•   Attaching the FaxBox/30 to a SynOptics 3395A Termserver Port
    (8-pin connector)

•   Attaching the FaxBox/30 to a DECserver 700 (8-port, Telnet) Port

•   Attaching the FaxBox/30 to a Hughes 4208 Termserver Port

ATTACHING FAXBOX/30 TO SYNOPTICS 3395A TERMSERVER PORT (6-PIN)

SynOptics 3395 Port RJ-45			FaxBox/30 RS-232 Male DB-25	
TX	3	————————→	2	Rx
Rx	6	←————————	3	Tx
DTR	2	————————→	20	DTR
TxGND	4	←———————		
RxGND	5	←———————	7	GND
DSR/DCD	7	←———————	5	CTS

ATTACHING FAXBOX/30 (MODEL 1 OR 2) TO SYNOPTICS 3395A OR XYPLEX TERMSERVER PORT (8-PIN)

Use the DB25 to RJ25 adapter (shown below) for Xyplex to Faxbox serial interface connections.

Xyplex RJ-45			FaxBox/30 DB-25	
RX	6	←————————	3	TX
TX	3	————————→	2	RX
CTS	1	←————————	5	CTS
RTS	8	————————→	20	DTR
TX&RX GND	4 & 5	←———————→	7	GND

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ATTACHING FAXBOX/30 TO DECSERVER 700 (8-PORT; TELNET) PORT

DecServer 700 RS-232 (DTE) Female DB-25			FaxBox/30 RS-232 (DCE) Male DB-25	
TX	2	————▶	2	RX
RX	3	◀————	3	TX
RTS	4	————▶	20	DTR
CTS	5	◀————	5	CTS
GND	7	◀———▶	7	GND
DCD	8	◀————	8	DCD

ATTACHING FAXBOX/30 TO HUGHES 4208 TERMSERVER PORT

Hughes 4208 Port RJ-45				FaxBox/30 RS-232 (DCE) Male DB-25	
(Green)	TX	5	————▶	2	RX
(Black)	RX	3	◀————	3	TX
(Blue)	DTR	1	◀————	5	CTS
(White)	RTS	8	————▶	20	DTR
(Yellow)	GND	6	◀———▶	7	GND

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VERIFYING THE DCE FAXBOX/30 INSTALLATION

NOTE: The DCE FAXBOX/30 has been retired and is no longer supported by McKesson. For more information about the replacement product, contact your McKesson account representative.

This part provides instructions for trouble-shooting problems that may occur during the initial installation of the DCE FaxBox/30 into the McKesson STAR environment.

Listed below are the steps required to verify that the installation of the FaxBox/30 attached to the SynOptics 3395A termserver is correct:

1. Record the IP Address and TCP Port Number to which the FaxBox/30 is attached.

2. Log in to the UNIX® host where the STAR application, for example, STAR Laboratory, resides. Do not invoke MSE (MultiSTAR Software Environment) at this point.

3. At the UNIX prompt, connect to the SynOptics termserver administrative port using the Telnet command. The default command to attach to the administrative port of a SynOptics termserver with IP Address 192.9.200.101 is:

   telnet 192.9.200.101 2000

4. After attaching to the termserver, press ENTER to get the # prompt.

   a. Enter the word, **access**.

   b. Enter any character for the username.

   c. At the termserver prompt, invoke system privilege with the SETPRIV command.

   d. At the prompt, enter the appropriate password.

   e. If the termserver is configured with the default password, at the password prompt, enter the word, **system**.

5. Examine the termserver port configuration and compare it to the example in Configuring the SynOptics Termserver Port for Attachment of FaxBox/30.

6. If necessary, change the port parameters to match the example configuration.

   The only parameters that might vary from the example are the Physical Port number, the Remote Port setting in the telnet characteristics and possibly the Flow Control setting (DSR instead of CTS).

   See Step 8 for directions about Flow Control.

7. While still attached to the termserver administrative port, check the status of the FaxBox/30 connected port with the command:

stat port<port number>

Example for TS3395>> stat port 6			
Port 6:	(Remote)	Server:	SERVER_NAME
Access:	Remote	Current Service:	(Remote Connect)
Status:	Available	Current Node:	
Sessions:	1	Current Port:	
Input XOFFed:	No	Output Signals:	DTR
Output XOFFed:	No	Input Signals:	DSR
Last Char Output:	54	Last Char Input:	0a
Script Host:			
Script File:			

8. Check the state of input and output signals.

   a. If the port Status is Available, the Input Signal, DSR, is displayed and the Output SOFFed state is Yes, change the Flow Control port parameter to DSR instead of CTS with the command:

   def port <port number> **flow control DSR**

   then:

   lo port <port number>

   NOTE: This change is usually necessary when attaching the FaxBox/30 to the 8-wire version of the SynOptics 3395A termserver. The 8-wire version can be identified only by pulling the termserver from the SynOptics chassis and finding the part number. The 6-wire hardware revisions have part number 950-0700-A or B. The 8-wire version has part number 950-0700-C or greater.

   b. If the port Status is Available, no Input Signals are displayed and the Output XOFFed state is Yes, reset the FaxBox/30 by unplugging the power cord and plugging it back in. then re-check the port status. If still no Input Signals, go to step 9. If the Input Signals show DSR, go to step 11.

9. Check the front panel of the FaxBox/30 and make sure the GREEN LED is illuminated.

    a. If illuminated, go to step 10.

    b. If not, verify that the unit is getting power.

    c. If the unit is not powering up, it may be defective. If the unit is defective, call **1-800-326-3821** and ask the DCE customer representative to ship another unit.

10. Verify that the correct cable adaptor is being used. For the SynOptics 3395A, the cable adaptor part number is A4C390-15682.

    a. If there is no part number on the cable adaptor, compare the pin-out with the cable diagram in Attaching FaxBox/30 to SynOptics 3395A Termserver Port.

    b. If any cable adjustments are made, recheck the status of the termserver port and verify that the FaxBox/30 is providing an input signal.

    c. If there is still no input signal from the FaxBox/30, test all patch cabling between the termserver and the FaxBox/30.

11. To get the telnet prompt, disconnect from the termserver administrative port and enter **<CTRL>**. Enter **quit** at the telnet prompt. The UNIX prompt is displayed.

12. At the UNIX prompt, to make a telnet connection to the SynOptics termserver port to which the FaxBox/30 is attached, enter:

    telnet 192.9.200.101 <Remote Port>

    Where, the Remote Port is the TCP port number you defined in the Port Modification Utility.

13. After making the telnet connection to the FaxBox/30, enter the FaxBox status request by typing the characters **^s** (Not<CTRL>s) followed by <CR>.

    If the FaxBox is responding, the following status reply displays:

    <09
    01JAN90 1200 : FAX LINE - NORMAL,FREE MEMORY -8K,PRINTER-ONLINE
    >

14. While still attached to the FaxBox termserver port, have the FaxBox reset either by pressing the front panel RESET button or by removing and replacing power to the unit. The FaxBox sends the following messages:

    <50
    01JAN90 1200 : FAXBOX RESTARTED
    >

    <09
    01JAN90 1200 : FAX LINE - NORMAL,FREE MEMORY -8K,PRINTER-ONLINE
    >

    If the above messages are displayed, go to step 18; if not, go to step 15.

15. To disconnect from the FaxBox attached termserver port, enter <CTRL>. The telnet prompt is displayed. Enter **close**. The UNIX prompt is displayed.

16. Reattach to the SynOptics Administrative port as in step 3 and invoke system privilege.

    a. Change the speed of the FaxBox attached port to 9600 baud with the commands:

        def port<port number> **speed 9600**

        lo port<port number>

        The default baud rate of the FaxBox/30 is 9600 baud.

        The purpose of this step is to change the speed of the termserver port to match the FaxBox in case the FaxBox configuration changes were not saved.

    b. Now go back to step 11 and try to get the FaxBox to respond to the status request.

    c. If the FaxBox does respond at 9600 baud, go to step 18. If not, change the termserver port speed back to 19200 baud.

17. If you are unable to check the configuration of the FaxBox through the termserver, refer to Configuring the FaxBox/30 and complete the configuration instructions.

18. At this point, the FaxBox/30 configuration can be checked.

    a. Enter the characters **^p** (Not<CTRL>p) to invoke the configuration mode.

        The FaxBox responds with OK.

    b. Enter an asterisk followed by a question mark (*?) to display the configuration.

c. For FaxBox/30 model 1, verify that the following five parameters are set to the appropriate value: **HBD, FLC, SML, CSI AND DTD**.

> **NOTE:** There are very few instances where any of the other parameters need to be changed from the default settings. However, as the FaxBox/30 firmware is upgraded, some changes to the configuration listing may occur. Until further notice, the only parameters that McKesson installations modify are the five listed above.

19. If the FaxBox/30 configuration requires changes, be sure to save those changes with the SAV=Y command. If the baud rate parameter was set to HBD=P, make sure the termserver port speed is set to 19200 baud.

20. While still connected to the FaxBox/30, send a quick fax to a local fax machine. Use the format as in the examples below:

Type of Call	Example Format
For local calls through a PBX	**^h9P6681407.This is a test.^T**
For local calls without a PBX	**^h6681407.This is a test.^T**
Long distance through a PBX	**^h9P14046681407.This is a test.^T**
Long distance without a PBX	**^h14046681407.This is a test.^T**

a. Examine the responses from the FaxBox and verify that the FAX SENT OK message appears.

b. Correct any other problems such as BUSY, NO DIAL TONE, and so forth.

> **NOTE:** NO DIAL TONE usually indicates that the phone line is not connected. However, with some PBXs the FaxBox cannot detect the dial tone. Therefore, get back into the configuration mode of the FaxBox/30 and set the DTD parameter to **A (DTD=A)**. Save the new setting and retest.

21. **Before going to the next step**, be sure to disconnect from the FaxBox attached to the termserver port by entering <CTRL> to get the telnet prompt. Enter **Close** at the telnet prompt. The UNIX prompt is now displayed.

22. At this point, the communications portion of the FaxBox/30 installation is complete and operational. The remaining steps pertain to the MSE port and STAR product application settings.

23. Invoke MSE and check the STAR port configuration using the STAR Port Modification Utility. Verify that the port is configured.

24. Go to the Output Management menu and select the **STAR Fax** menu. Then select **Enable STAR Fax**. Make sure the STAR Fax feature is enabled. This alerts the applications that the fax feature is available.

25. Go to the appropriate ID and access STAR Printer Maintenance.

    a. Select the assigned printer name for the FaxBox.

        The STAR Laboratory application usually uses the name LABFAX and STAR Radiology uses XFAX.

    b. Make sure the printer is set to use the SPOOLER Driver.

    c. **Do not use the %FAX Driver!**

    d. Verify that the correct STAR Port is assigned.

26. Then bring up the STAR Report Maintenance utility. check to see that all the appropriate Reports exist and are configured with the appropriate printer name.

    For **STAR Laboratory**, the following reports are required:

    LABFAXALAB FAX PANIC REPORT
    LABFAXLLAB FAX LONG REPORT
    LABFAXPLAB FAX PRIMARY REPORT
    LABFAXSLAB FAX SUMMARY REPORT

    For **STAR Radiology**, a report is required for each facility used:

    XFAXARadiology Report Faxing (A)
    XFAXBRadiology Report Faxing (B)
    XFAXCRadiology Report Faxing (C)

    A sample screen report follows:

```
1 Report Name      2 Description
  XFAXA               Radiology Report Faxing (A)
3 Base Report      4 Release #            5 Owner
  Yes                X
6 When Printed     7 Report Status        8 Retention Days
  Immediately         Active                   1 day
9 Restart Method  10 PC Download          11 Security Level
12 Special Form   13 Print Control        14 Page Index    15 Max # Pages
                                          No               500
16 List Update Routine 17 Distribution List 18 Cover Page

19 Printer      Description     Copies  Default type   Start time   End time
XFAX            FAX MACHINE      1        BATCH/DEMAND
```

27. Verify that a Report name exists with the same name as the Printer name assigned. For example, the report LABFAX exists if the printer name is LABFAX. Configuring this Report completes the setup requirements to Demand Print a spooled Report.

28. Test the FaxBox from STAR with the **Demand Print** utility.

   a. Select a Source Printer and a spooled report.

   b. Direct it to the newly created FAX printer, for example, LABFAX.

   c. Enter the TO, FROM, fax number and comment.

   d. Verify that the Report is transmitted to the fax machine.

   e. Bring up the STAR Fax menu again and select the Fax Audit option.

   f. Check the Fax Audit function to verify that the Report was Distributed.

29. Bring up the STAR Fax menu again and select **Fax Audit**. Verify that the Report is queued and In Progress. If a Distribution Error occurs, make sure it is a recoverable error such as BUSY.

30. If all tests have worked up to this point, test the fax functionality from the application. If you are still having trouble transmitting an immediate fax, double-check the Report setup to make sure it is set to print as **Immediate**, not on Demand.

31. At this point, you have resolved any communication or utility setup problems. However, there are a couple of other variables that you may occasionally need to check.

   • Make sure that the FaxBox/30 phone line has the same dialing requirements that a phone user has. Some FaxBox installations have used direct phone lines that do not require the prefix to get an outside line. The symptoms of this are continuous BUSY and COULD NOT CONNECT messages displayed in Fax Audit.

   • Make sure that you are using the SynOptics 3395A when attaching the FaxBox/30. The configuration listed in this manual for the SynOptics termserver was specified for the SynOptics 3395A termserver. The FaxBox/30 does not work correctly when attached to the older SynOptics 3395 termserver.

CREATING A COVER PAGE FOR STAR FAX

After the FaxBox/30 has been installed and tested from the STAR application(s), it is time to modify the Cover Page. Currently the default Cover Page consists of the following information appearing at the top of the first page:

<System Name>

==

To: <Receiving Doctor's Name>   <Date & Time>

From: <Sender>

==

The above information appears in all Cover Pages. However, unique Cover Pages can be modified to include data above (Header) and below (Trailer) this information. The Header and Trailer are created using PCS (Printer Control Sequences). PCSs allow custom data to be sent to the connected device, in this case the FaxBox/30.

Use the following instructions to define the Header and Trailer PCSs and create a final Cover Page.

> **NOTE:** For more information about any of the functions described below, see the Print Control Maintenance section of the *MultiSTAR Software Environment Operations Guide*.

1. To edit a PCS screen, select **Output Management**. The following screen is displayed.

```
                    General Hospital Output Management Processor

Output Management Input Options

        Option No.  Option
        _____
            1          Reports Maintenance
            2          Printer Maintenance
            3          Forms Maintenance
            4          Assign a Form to a Printer
            5          Define Batch Report Groups
            6          Print Control Maintenance

            7          Queue Control
            8          Print Job Control
            9          Disabled Printer Display
            10         Demand Print
            11         View Spooled Reports
            12         Write Reports to Tape
            13         Print Special Forms
            14         Spool Control Reports
            15         STAR Fax

Enter choice--
```

2. Select **Print Control Maintenance**. The following screen is displayed.

```
             General Hospital Print Control Maintenance Processor
                                           Tue Jun 15, 2004 08:43 am
Print Control Maintenance Input Options

             Option No.  Option
             ----------------------------------------
                 1       Define Print Control Sequence
                 2       Attach Printer Specific Sequence

                 3       Assign PCS's to Reports
                 4       Assign PCS's to Printers
                 5       Assign PCS's to Ports








Enter option number--
```

3. Select **Define Print Control Sequence** to define the PCSs to be used for the Cover Page Header PCS names and the Trailer PCS names. For example, the Header name may be defined as HDRPCS and the Trailer name defined as TRLPCS.

4. To define detailed header and trailer information, access the **Printer Control Maintenance Input Options** menu, and then select **Attach Printer Specific Sequence**. Select the newly defined PCS and attach it to the FaxBox/30 as follows:

    a. At the prompt, enter the PCS name, the first characters, or a hyphen (-) to list. The defined Print Control Sequences are displayed.

```
               Defined Print Control Sequences

  Page:01          Defined Print Control Sequences
  (  1)  HDRPCS    COVER PAGE HEADER
  (  2)  TRLPCS    COVER PAGE TRAILER










  Enter choice--
```

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b. Select the header option and a list of defined printers is displayed:

```
Page:01            Defined Printers - *Indicates assigned PCS
( 1) B/600
( 2) 4535
( 3) TI 6594
( 4) Kyocera Laser
( 5) Xerox 3700 protocol
( 6) HP Protocol
( 7) Epson protocol
( 8) HP LaserJet
( 9) *FAXBOX/30




Select printer to define control sequence for --
```

c. Select the FAXBOX/30 device.

The following prompt may be displayed:

Copy Print Control Sequence from another printer? (Y/N) [N] --

If another printer already has a similar PCS, this copy option saves time because you do not have to key the entire PCS again. Enter **Y** to copy the similar PCS, and then edit it for this printer. Enter **N** if there is not a similar PCS to copy.

The following screen is displayed:

```
   General Hospital Attach Printer Specific Sequence Processor
                                       Tue Jun 15, 2004 12:39 pm


 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
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 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
 |                                                            |
  F1          F2           F3      F4    F5          F6          F7    F10
  Delete Line  Insert Line  Center  Exit  Store Line  Restore Line  Pack  Help
```

Enter the header information into this screen. Make sure you use the FaxBox/ 30 supported ASCII data sequences when formatting with special features such as **BOLD**, underline, and so forth. The following is an example:

{10}{10}
                    HOSPITAL A(10)
{10}
          Information Services Department{10}
                (123) 662-5555{10}
{10}
                101 Peachtree Street{10}
                Atlanta, GA 30223-4065{10}{10}{10}
                {19}{27}-1TELECOPY INFORMATION SHEET{10}{27}-0
{10}{10}{10}{10}{10}{10}

When keying is complete, press **F4** to exit. The following prompt is displayed:

Accept? (Y/N) [Y} --

Enter a period (.) and press ENTER to exit the screen without saving the entry.

If you enter a Y, the following message is displayed:

Control Sequence filed!

5. After completing the Header, access the **Printer Control Maintenance Input Options** menu, and then select **Attach Printer Specific Sequence**. Select the newly defined PCS and attach it to the FaxBox/30 as follows:

    a. At the prompt, enter the PCS name, the first characters, or a hyphen (-) to list. The defined Print Control Sequences are displayed.

```
              Defined Print Control Sequences

 Page:01          Defined Print Control Sequences
 (  1)  HDRPCS   COVER PAGE HEADER
 (  2)  TRLPCS   COVER PAGE TRAILER







 Enter choice--
```

b. Select the trailer option and a list of defined printers is displayed:

```
Page:01            Defined Printers - *Indicates assigned PCS
( 1) B/600
( 2) 4535
( 3) TI 6594
( 4) Kyocera Laser
( 5) Xerox 3700 protocol
( 6) HP Protocol
( 7) Epson protocol
( 8) HP LaserJet
( 9) *FAXBOX/30




Select printer to define control sequence for --
```

c. Select the FAXBOX/30 device.

The following prompt may be displayed:

Copy Print Control Sequence from another printer? (Y/N) [N] --

If another printer already has a similar PCS, this copy option saves time because you do not have to key the entire PCS again. Enter **Y** to copy the similar PCS, and then edit it for this printer. Enter **N** if there is not a similar PCS to copy.

The following screen is displayed:

```
        General Hospital Attach Printer Specific Sequence Processor
                                                 Tue Jun 15, 2004 12:39 pm

    |                                                                  |
    |                                                                  |
    |                                                                  |
    |                                                                  |
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    |                                                                  |
    |                                                                  |
    |                                                                  |
    |                                                                  |
     F1            F2            F3      F4      F5          F6           F7      F10
    Delete Line   Insert Line   Center  Exit    Store Line  Restore Line Pack    Help
```

Enter the trailer information into this screen. Make sure you use the FaxBox/ 30 supported ASCII data sequences when formatting with special features such as **BOLD**, underline, and so forth. The following is an example:

```
{10}{10{10}{10{10}{10
          TRANSMITTING FROM FACSIMILE NUMBER (123) 662-5555{10}{10}
            If there is a problem with this transmission,{10}
          please call us as soon as possible at (123) 662-5556{10}{10}
THE INFORMATION CONTAINED IN THIS FAX MESSAGE IS INTENDED ONLY FOR THE
PERSONAL AND CONFIDENTIAL USE OF THE DESIGNATED RECIPIENT NAME
ABOVE.{10}{10}
{27}!{20}This message is intended only for the use of individual or
entity to which it is addressed and may contain information that is
privileged{10}and confidential and exempt from disclosure under applicable
law.  If the reader of this message is not the intended recipient, you are
{10}hereby notified that you have received this document in error, and that
any review, dissemination, distribution, or copying of the{10}message is
strictly prohibited.{10}{10}
If you have received this document in error, please notify us by telephone
immediately so that we can arrange for the return of the{10}documents to us
at no charge to you.{27}!{1}
```

6. Access the **STAR Fax** menu and select **Cover Page information**. Add the new cover page name and enter the data as in the following example:

```
1 Code                      2 Cover Page Description
  COVERPAGE                 HOSPITALA Cover Page
3 Header PCS Names
HDRPCS
4 Trailer PCS Names
TRLPCS
```

7. Add the new Cover Page name to either the Report or the Distribution List.

   NOTE: If a Cover Page has been assigned to the Report and the Distribution List, the Cover Page specified in the Report takes precedence.

8. Transmit a test fax using the new Cover Page and make any adjustments to the alignment. The output of the example follows:

HOSPITAL A

Information Services Department
(123) 662-5555

101 Peachtree Street
Atlanta, GA 30223-4065

TELECOPY INFORMATION SHEET

<System Name>
===
To: <Receiving Doctor's Name>   <Date & Time>
From: <Sender>
===

TRANSMITTING FROM FACSIMILE NUMBER (123) 662-5555
If there is a problem with this transmission,
please call us as soon as possible at (123) 662-5556

THE INFORMATION CONTAINED IN THIS FAX MESSAGE IS INTENDED ONLY FOR THE PERSONAL AND CONFIDENTIAL USE OF THE DESIGNATED RECIPIENT NAME ABOVE.

This message is intended only for the use of individual or entity to which it is addressed and may contain information that is privileged and confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that you have received this document in error, and that any review, dissemination, distribution, or copying of the message is strictly prohibited.

If you have received this document in error, please notify us by telephone immediately so that we can arrange for the return of the documents to us at no charge to you.

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■ R e a d e r   C o m m e n t   F o r m ■

We value your suggestions for improving our documentation. Please use this form to evaluate the *STAR Fax Installation Manual* for Release 17.0.

Topic	Poor	Fair	Good	Excellent
Organization of information	❏	❏	❏	❏
Accuracy of information	❏	❏	❏	❏
Completeness of information	❏	❏	❏	❏
Clarity of information	❏	❏	❏	❏
Amount of overview information	❏	❏	❏	❏
Explanation of processes	❏	❏	❏	❏

Are there parts of this manual that could be made more helpful to you? Please explain.

_____

_____

_____

_____

_____

Other Comments:

_____

_____

_____

Thanks for your help in improving the documentation.

Your Name and Position

Hospital/Organization
Name

Telephone Number

May we contact you?   Yes or No (circle one)

Fold here

Place
Stamp
Here

STAR 2000 Documentation Team
McKesson
Mail Stop ATHQ-3302
5995 Windward Parkway
Alpharetta, GA 30005

Fold here