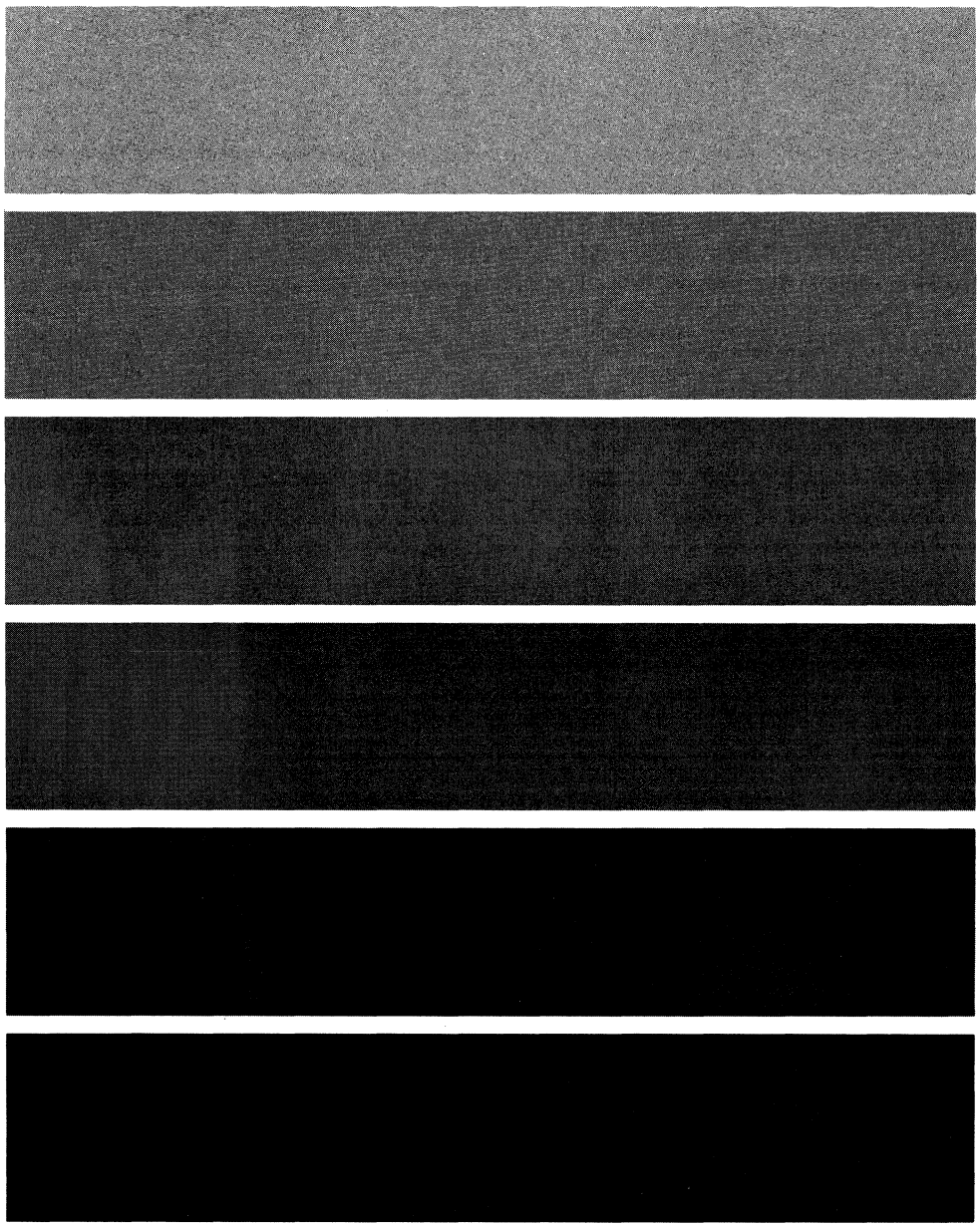
3270 Information Display System

3174 Subsystem Control Unit

Encrypt/Decrypt Adapter

Customer Installation and Removal Instructions



The following warning statements (required by country regulatory agencies) are applicable in the countries indicated.

United States

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Additional IBM Statement:

This warning is also applicable to all attaching units produced for use in the U.S.A. that have been manufactured after December 31, 1980. A notice of compliance has been affixed within the customer access area of all affected units.

United Kingdom

Warning: This IBM product is made to high Safety standards. It complies inherently with Telecommunications safety standard BS6301. It is not designed to provide protection from excessive voltages appearing externally at its interfaces. Therefore, when this product is connected to a public telecommunications network via any other equipment, and you connect to this product items not supplied by IBM United Kingdom Ltd., you must comply with mandatory telecommunications safety requirements.

You may do this either by choosing products which also are approved as complying to BS6301 or British Telecom Technical Guide No. 26, or by the use of approved safety barriers. Consult the local office of your public telecommunications operator for advice and permission to make the connections.

Second Edition (December 1988)

This edition obsoletes and replaces GA23-0262-0.

Changes are made periodically to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/370, 30xx, and 4300 Processors Bibliography,* GC20-0001, for the editions that are applicable and current.

References in this publication to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM licensed program in this publication is not intended to state or imply that only IBM's licensed program may be used. Any functionally equivalent program may be used instead.

Publications are not stocked at the address given below. Requests for IBM publications should be made to your IBM representative or to the IBM branch office serving your locality.

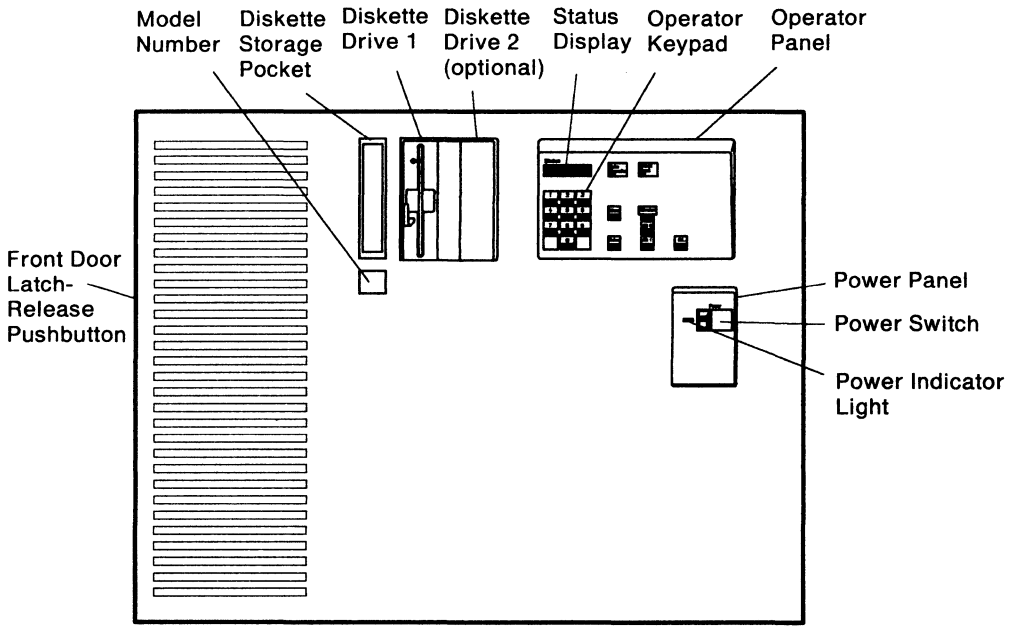
A Reader's Comment Form is provided at the back of this publication. If the form has been removed, address comments to IBM Corporation, Department E02, Post Office Box 12195, Research Triangle Park, North Carolina, U.S.A. 27709. IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

© Copyright International Business Machines Corporation 1986, 1988

Encrypt/Decrypt Adapter Installation and Removal for 3174 Models 1R, 2R, and 3R

CAUTION:
Do not connect or disconnect cables during periods of lightning activity. (For translations of this safety notice, see Safety Notice 5 in *IBM 3174 Safety Notices*, GA27-3824.)

Before beginning to install or remove an Encrypt/Decrypt Adapter, note the location of the control unit's basic components as illustrated in the following figure.



- **If you are installing an Encrypt/Decrypt Adapter, turn to page 2.**
- **If you are removing an Encrypt/Decrypt Adapter, turn to page 14.**

Encrypt/Decrypt Adapter Installation in a 3174 Model 1R or 2R

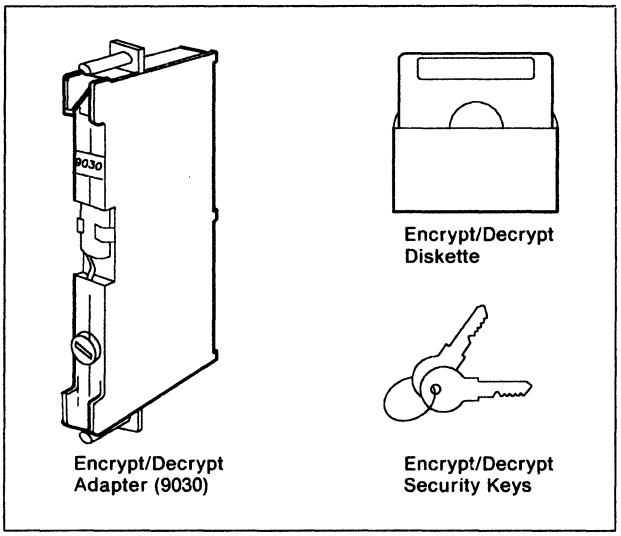
1

Do you have the required items in the kit?

YES Continue with the next step.

NO Discontinue this procedure until you have the required items.

Note: You will also need a Utility diskette of the correct release level for the configuration of this control unit.

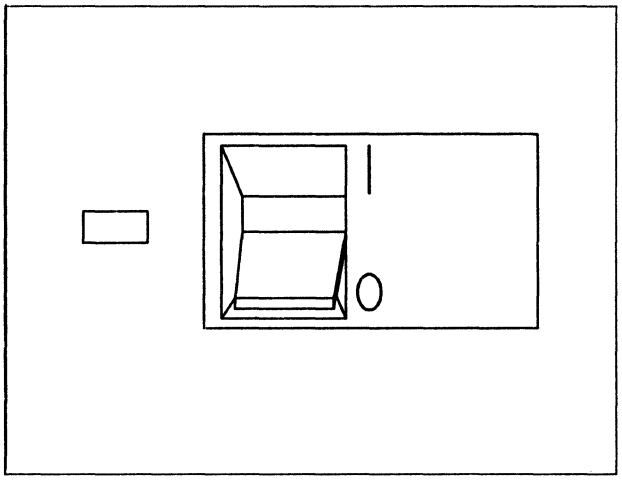


2

Is the control unit power switch switched off?

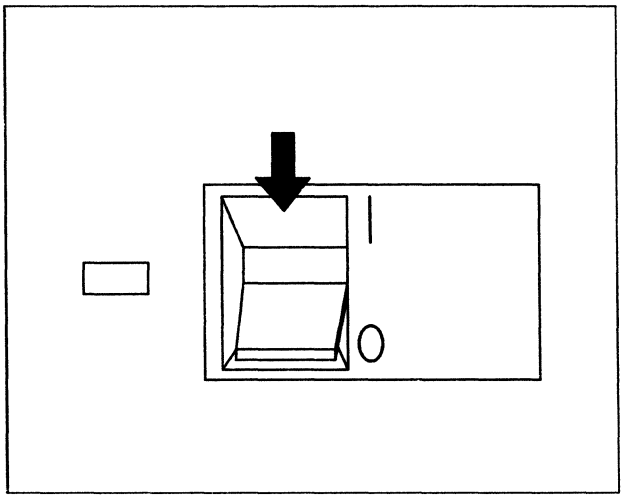
YES Go to step **4** on page 3.

NO Follow your company's procedures to notify users and to have this control unit taken offline before continuing with the next step.



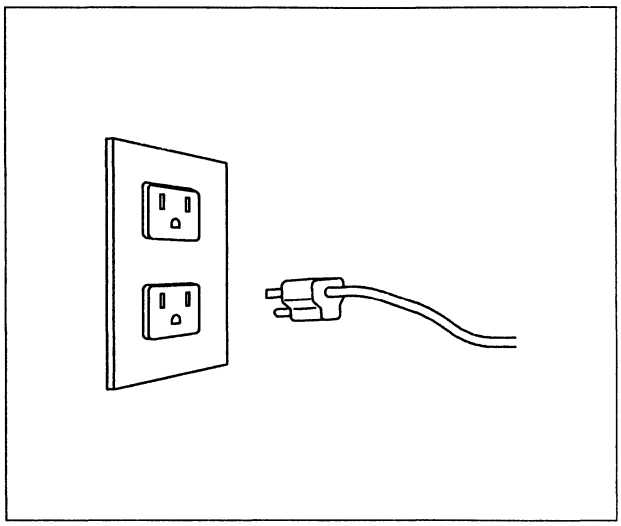
3

Press the power switch to **O** (Off).



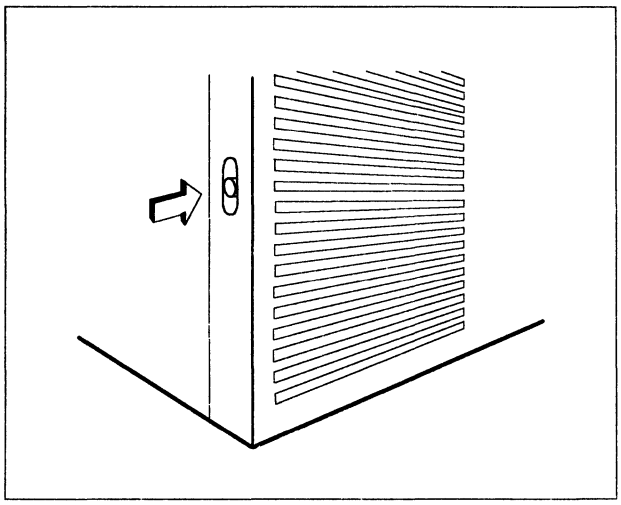
4

Unplug the control unit power plug.



5

Press the latch-release button on the left edge of the front door, and open the door.

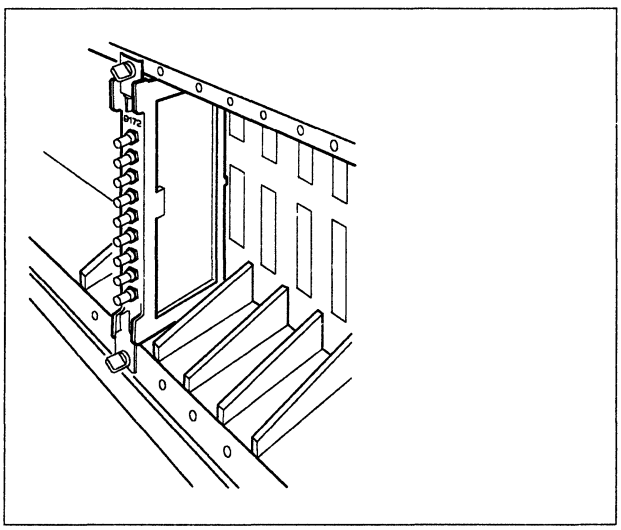


6

Is there a Terminal Multiplexer Adapter (TMA) card type 917X in card location 24?

YES Continue with the next step.

NO Go to step **15** on page 6.



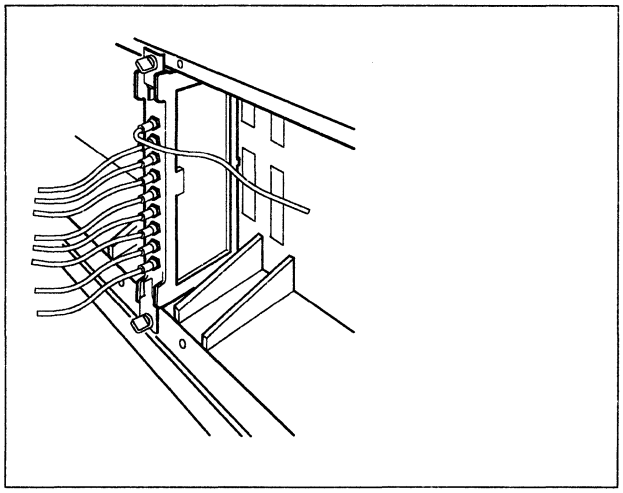
7

Are cables connected to the TMA in card location 24?

CAUTION:
Do not connect or disconnect cables during periods of lightning activity. (For translations of this safety notice, see Safety Notice 5 in *IBM Safety Notices*, GA27-3824.)

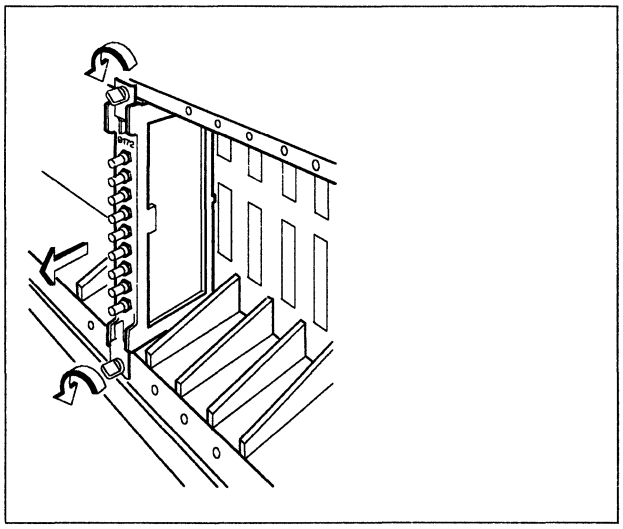
YES
1. Carefully make a chart of the cable connection locations
2. Label each cable with tape
3. Disconnect the cables from the TMA.

NO Continue with the next step.



8

Loosen the thumbscrews in an alternating manner and remove the TMA by pulling it straight out.



9

In the following sequence, circle the number of the first available (unused) card location.

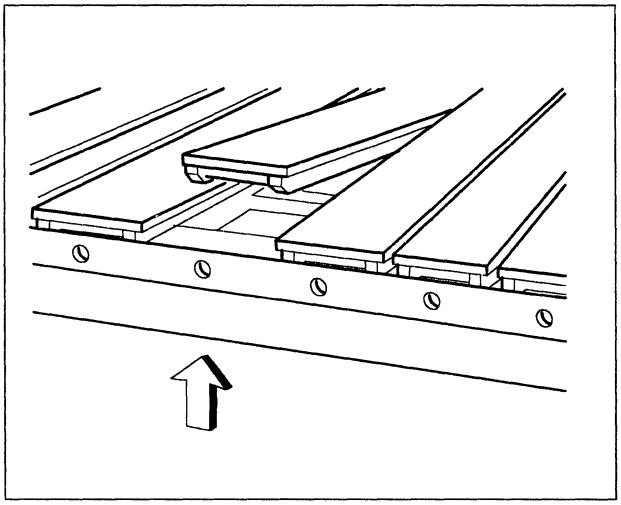
15 16 11 23 22 12 17 13

10

Is there a plastic insert in the card location that you circled in step **9**?

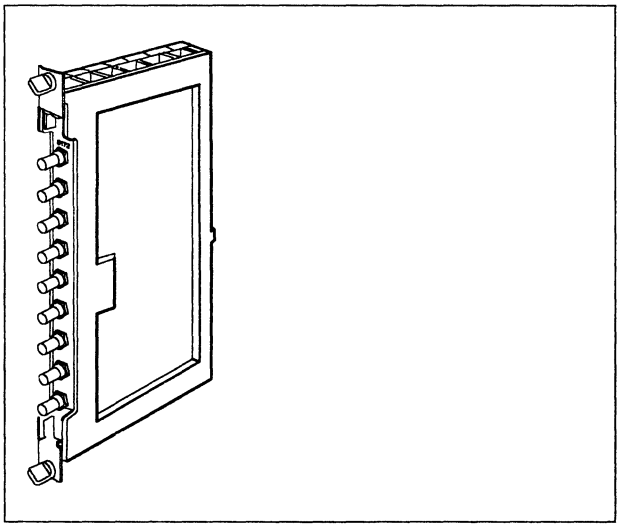
YES
1. Grip the front of it
2. Pull it up
3. Remove it.

NO Continue with the next step.



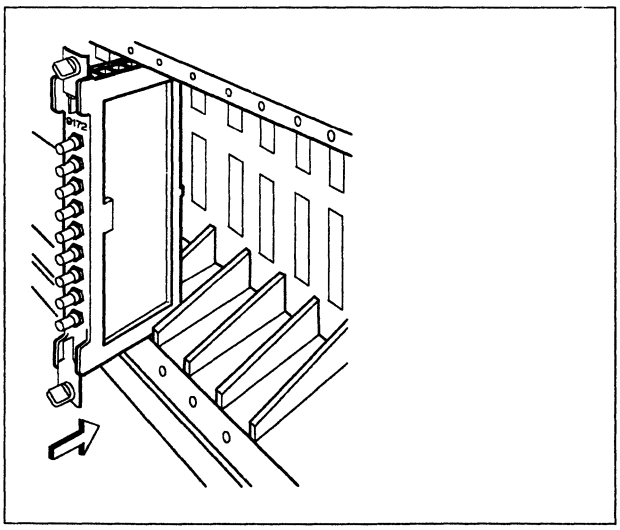
11

Hold the TMA that you removed from card location 24 so that the recessed panel is at the right.



12

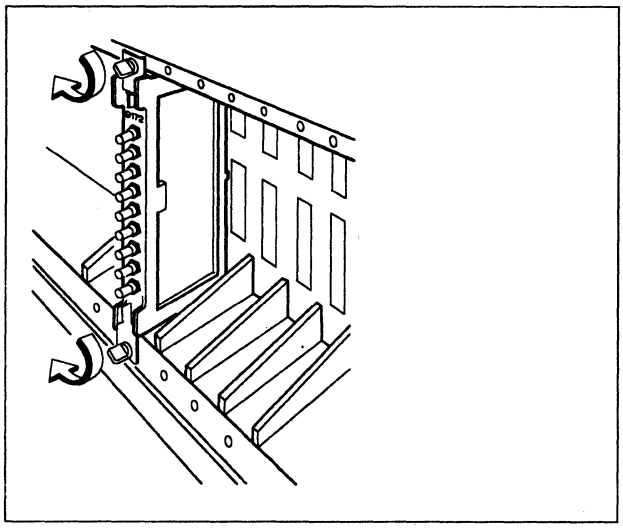
Insert the TMA into the card guides of the card location that you circled in step **9** on page 4 until it is firmly seated.



13

Tighten the thumbscrews in an alternating manner. For example, tighten one screw two turns and then the other two turns until both screws are tightened completely.

Then push the TMA in to see if further thumbscrew tightening is needed.



14

Did you disconnect cables from this TMA?

YES
1. Reconnect them to the TMA using the cable connection chart and cable labels that you made
2. Go to step **16** on page 7.

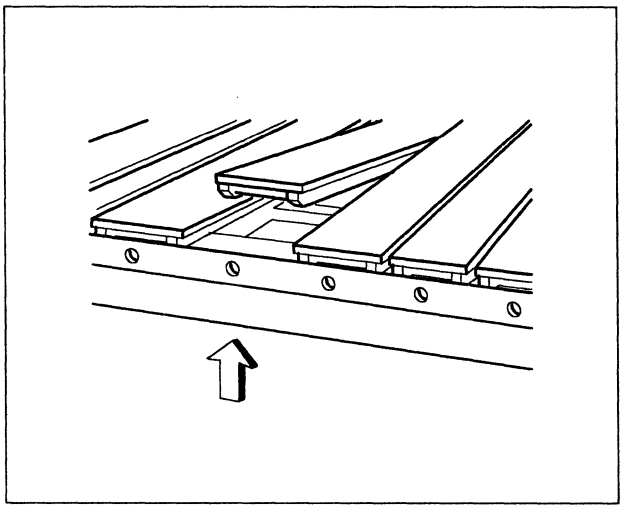
NO Go to step **16** on page 7.

15

Is there a plastic insert in card location 24?

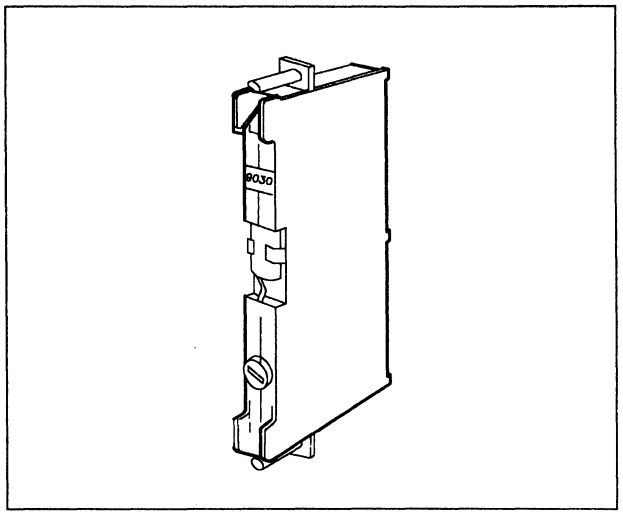
YES
1. Grip the front of it
2. Pull it up
3. Remove it.

NO Continue with the next step.



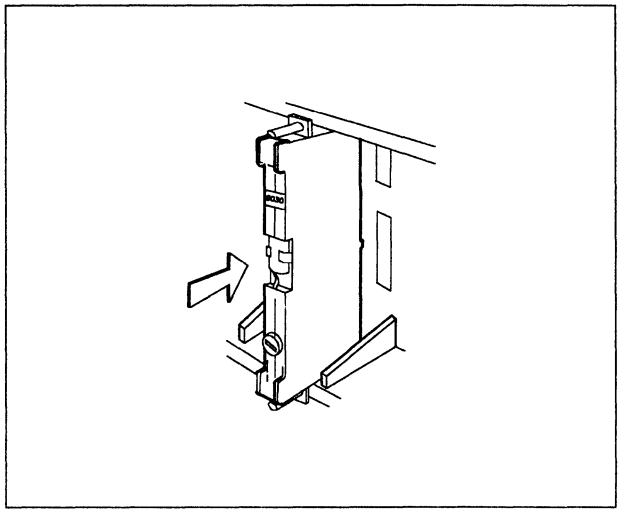
16

Hold the Encrypt/Decrypt Adapter so that the adapter type number, **9030**, is toward the top and facing you.



17

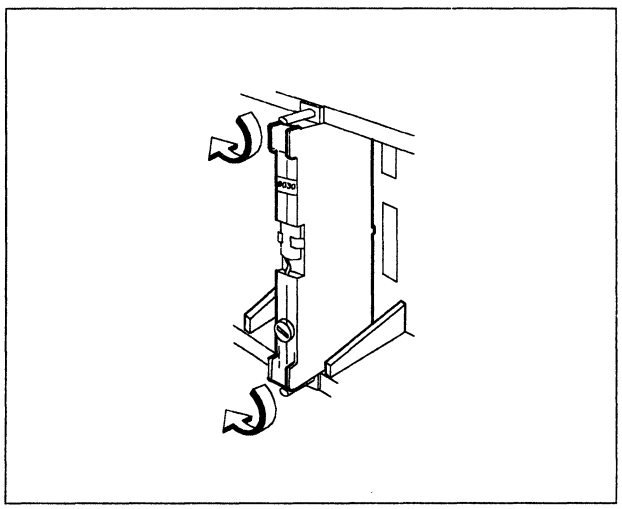
Insert the Encrypt/Decrypt Adapter into the card guides of card location 24 until it is firmly seated.



18

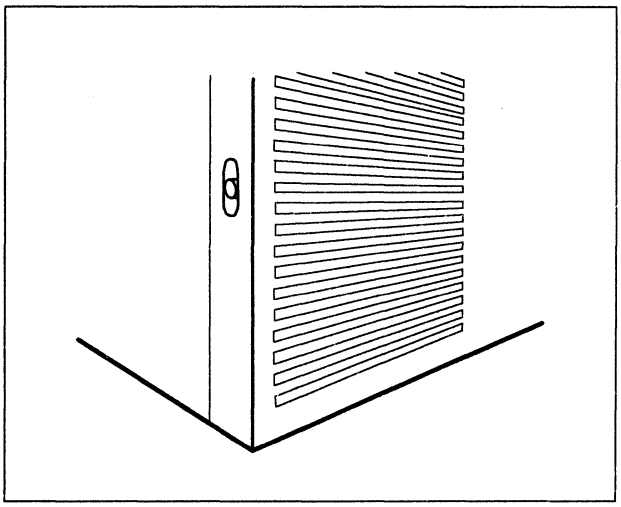
Tighten the thumbscrews in an alternating manner. For example, tighten one screw two turns, then tighten the other two turns, until both screws are tightened completely.

Then push the adapter in to see if further thumbscrew tightening is needed.



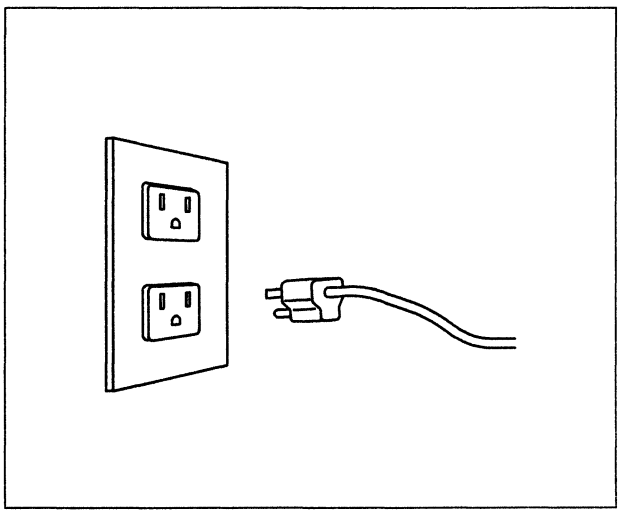
19

Close the door of the control unit.



20

Plug the control unit power plug into an electrical outlet.

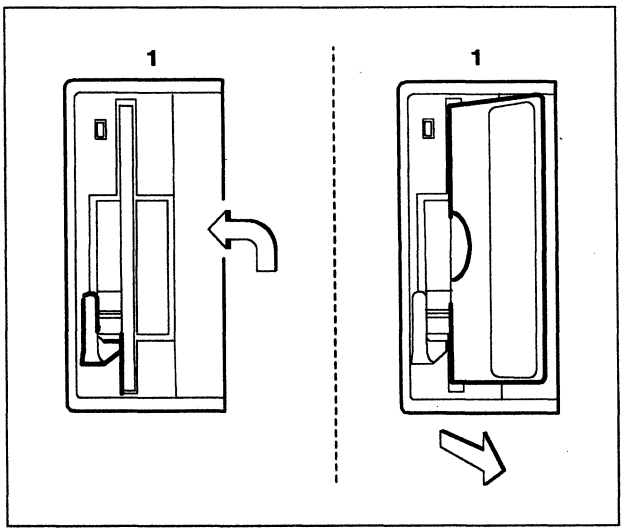


21

Is there a diskette in drive 1?

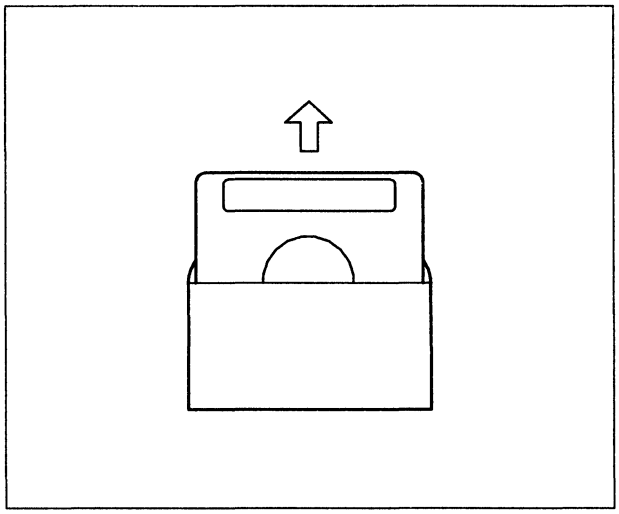
YES Open the lever of drive 1, and remove the diskette.

NO Continue with the next step.



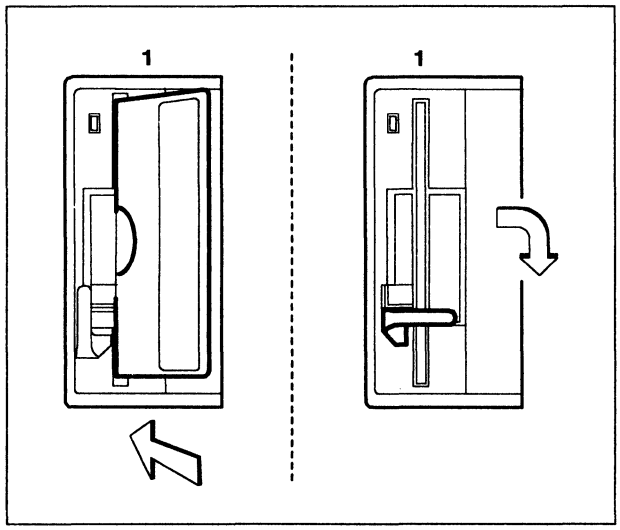
22

Get the Utility diskette and remove it from the protective envelope.



23

With the label facing to the left, insert the Utility diskette into Diskette Drive 1 and close the lever.

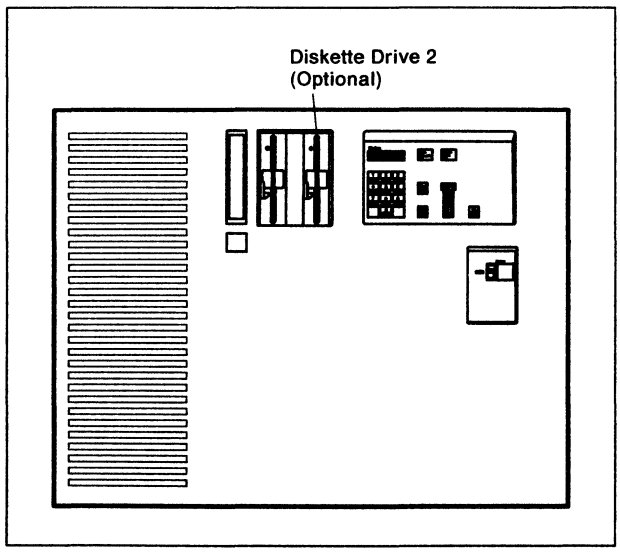


24

Does this control unit have an optional Diskette Drive 2?

YES Continue with the next step.

NO Go to step **26** on page 10.

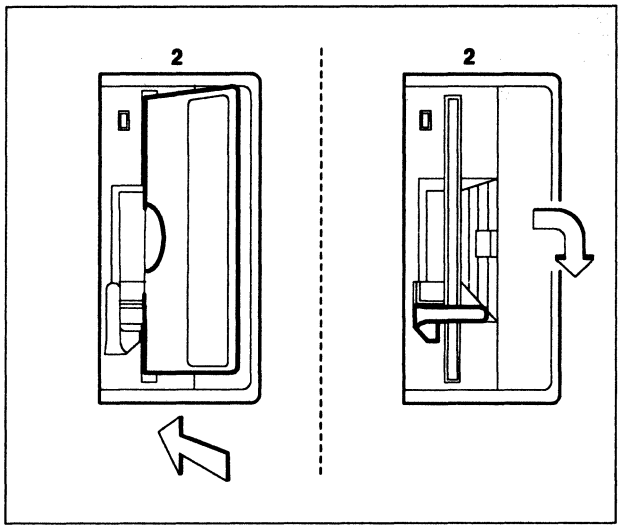


25

Is there a diskette in drive 2?

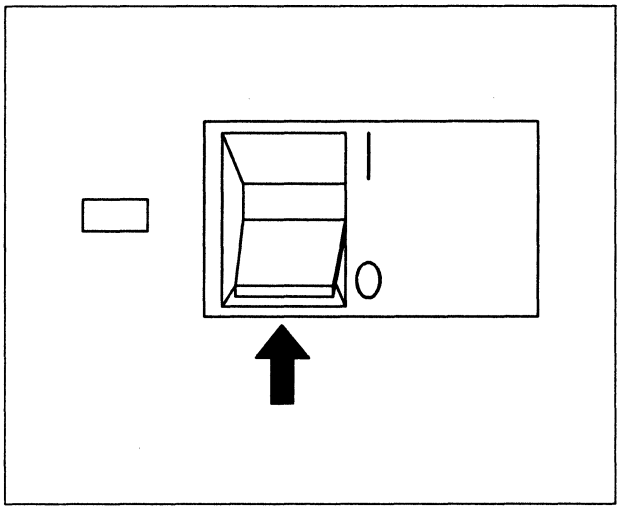
YES Continue with the next step.

NO Insert any 3174 diskette in drive 2, and close the lever.



26

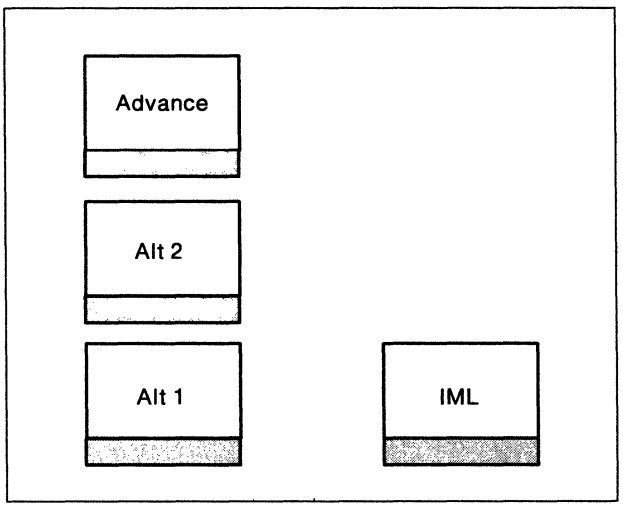
Switch the machine on with the power switch.



27

In the following sequence:

1. Press and hold **Alt 2**
2. Press and release **IML**
3. Release **Alt 2**.



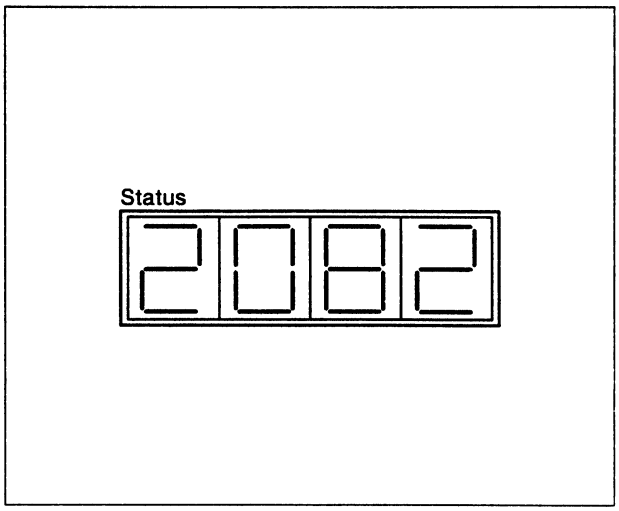
28

Does **2082** appear on the Status display after 1 to 3 minutes?

YES Continue with the next step.

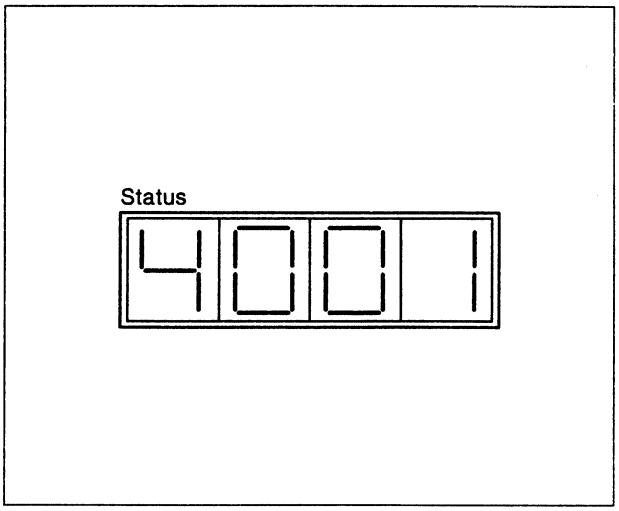
NO See the Status Code information in one of the following:

- *IBM 3174 Subsystem Control Unit Models 1L, 1R, 2R, and 3R User's Guide*
- *IBM 3174 Subsystem Control Unit Status Codes.*



29

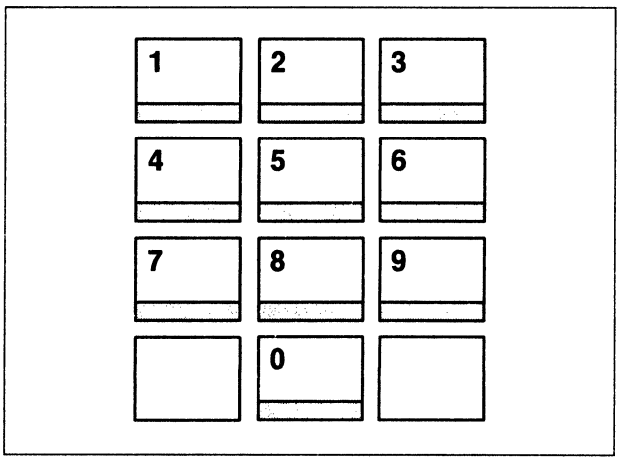
Press **Enter** to display **4001**.



30

Using the keypad on the control unit operator panel, key in **46**.

If you key in a wrong number, press **Clear** and try again.



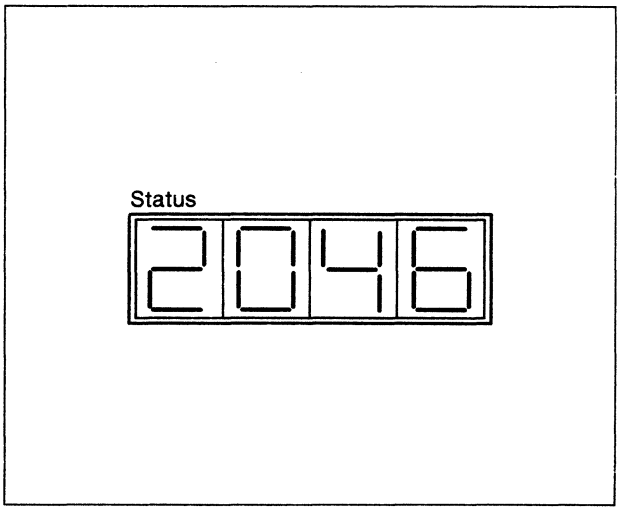
31

Press **Enter**. Does **2046** appear on the Status display?

YES Continue with the next step.

NO See the Status Code information in one of the following:

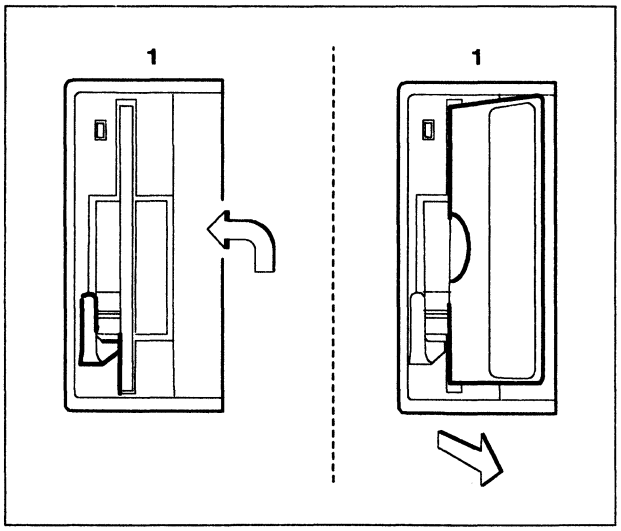
- *IBM 3174 Subsystem Control Unit Models 1L, 1R, 2R, and 3R User's Guide*
- *IBM 3174 Subsystem Control Unit Status Codes.*



32

Open the lever of Diskette Drive 1, and remove the Utility diskette.

Replace the diskette in its protective envelope, and put it in the diskette storage pocket.



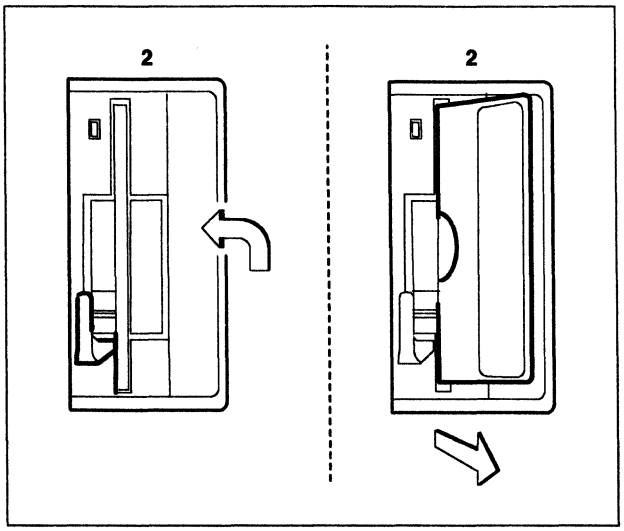
33

Is there an optional Diskette Drive 2?

YES Open the lever of drive 2, and remove the diskette.

Replace the diskette in its protective envelope, and put it in the diskette storage pocket.

NO Continue with the next step.



34

Encrypt/Decrypt Adapter hardware installation is complete.

Deliver the Encrypt/Decrypt diskette and the Encrypt/Decrypt security keys to the appropriate security advisor.

To make the control unit operational, see "Making the 3174 Operational" in the *IBM 3174 Subsystem Control Unit Models 1L, 1R, 2R, and 3R User's Guide*, GA23-0337.

To customize the Encrypt/Decrypt Adapter feature, see the *IBM 3174 Subsystem Control Unit Customizing Guide*, GA23-0214.

For more information on the Encrypt/Decrypt Adapter feature, see the *IBM 3270 Information Display System Introduction*, GA27-2739.

Encrypt/Decrypt Adapter Removal from a 3174 Model 1R, 2R, or 3R

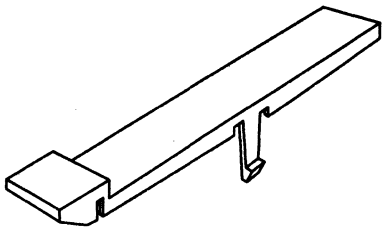
1

Do you have the required item in the kit?

YES Continue with the next step.

NO Discontinue this procedure until you have the required item.

Note: You will also need a Utility diskette of the correct release level for the configuration of this control unit.



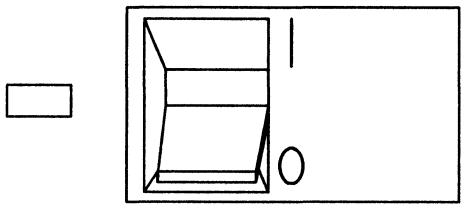
Plastic Insert

2

Is the control unit power switch switched off?

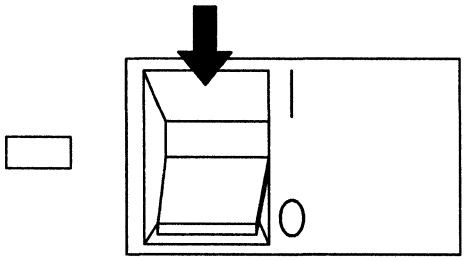
YES Go to step **4** on page 15.

NO Follow your company's procedures to notify users and to have this control unit taken offline before continuing with the next step.



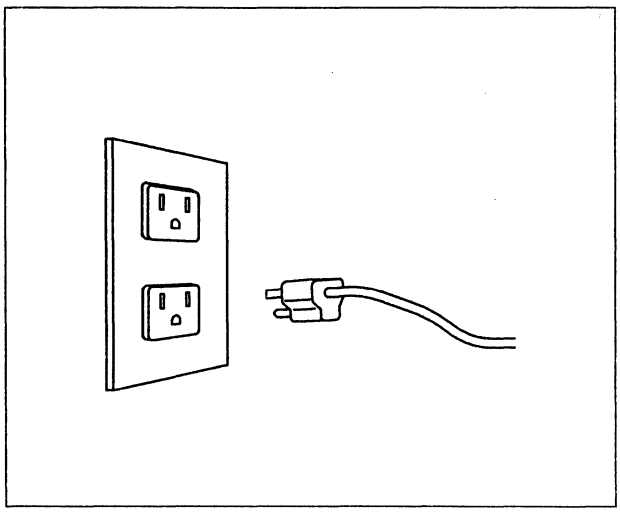
3

Press the power switch to **O** (Off).



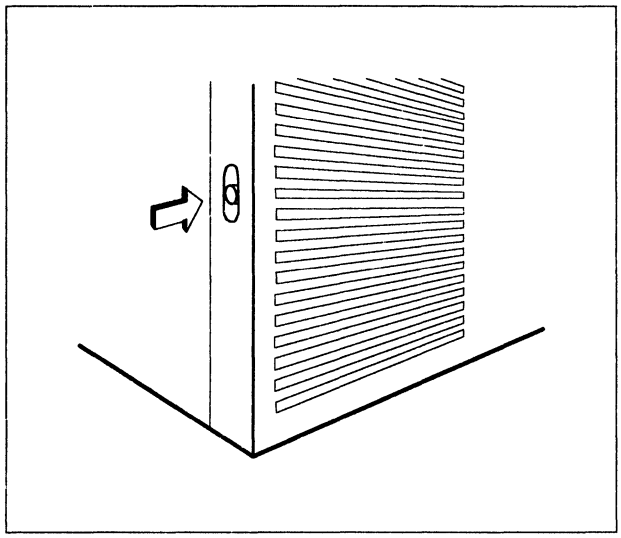
4

Unplug the control unit power plug.



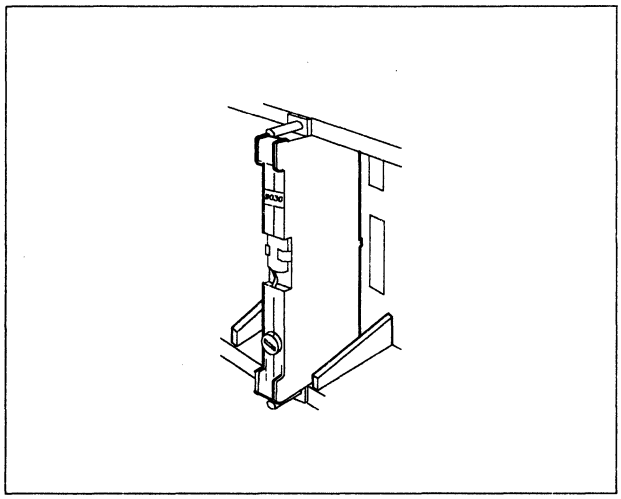
5

Press the latch-release button on the left edge of the front door, and open the door.



6

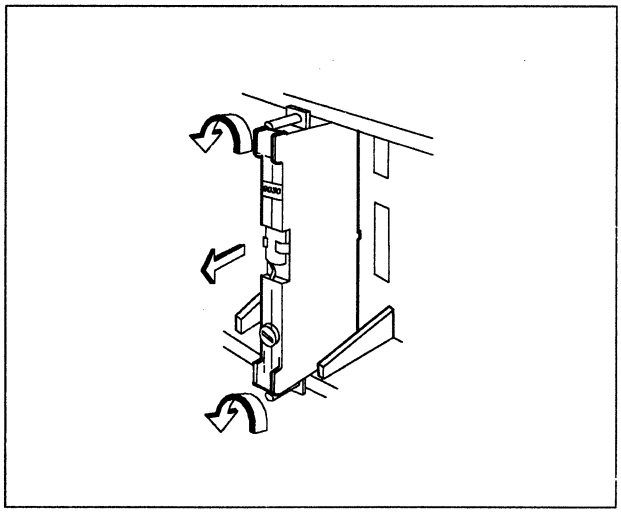
Locate Encrypt/Decrypt Adapter card type 9030 in card location 24.



7

Loosen the thumbscrews in an alternating manner and remove the Encrypt/Decrypt Adapter by pulling it straight out.

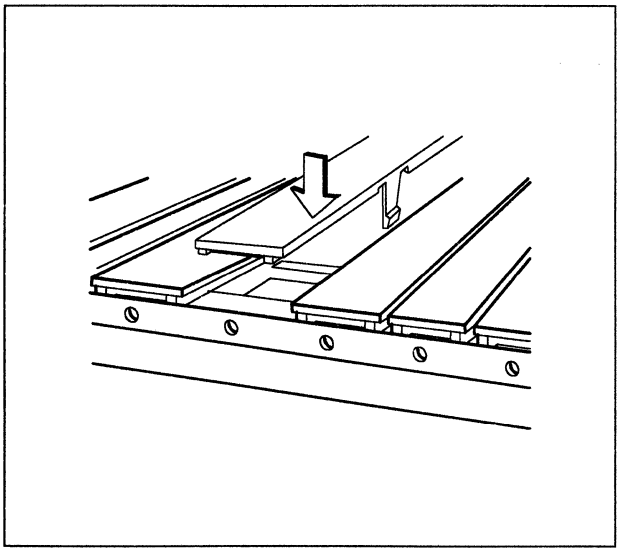
Store the Encrypt/Decrypt Adapter according to your company's procedures.



8

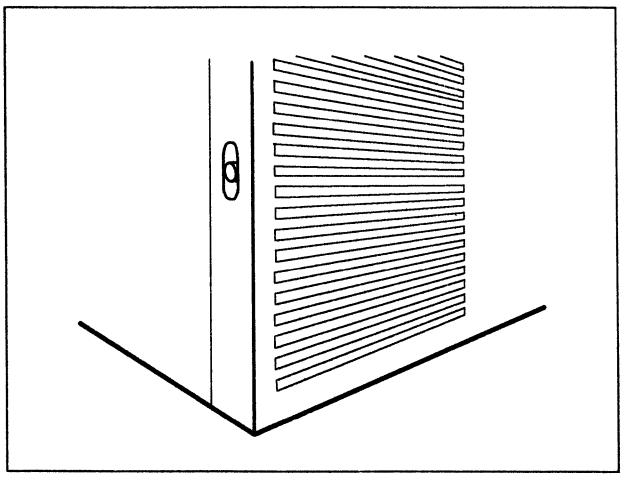
Install the plastic insert you received in the kit in card location 24.

Hold the insert level and press it down very firmly to snap it into place.



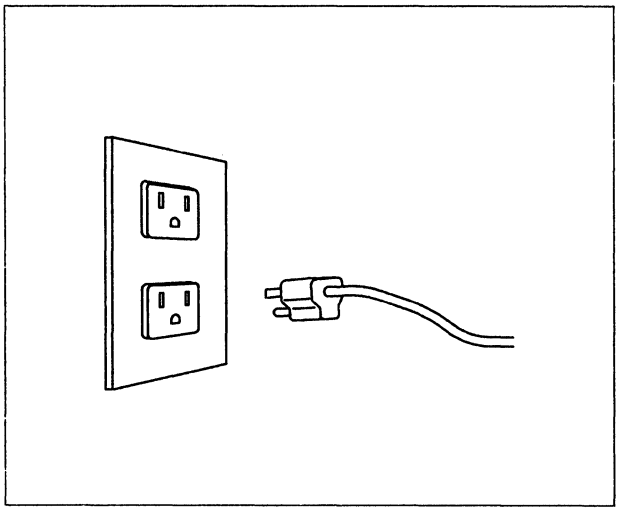
9

Close the door of the control unit.



10

Plug the control unit power plug into an electrical outlet.

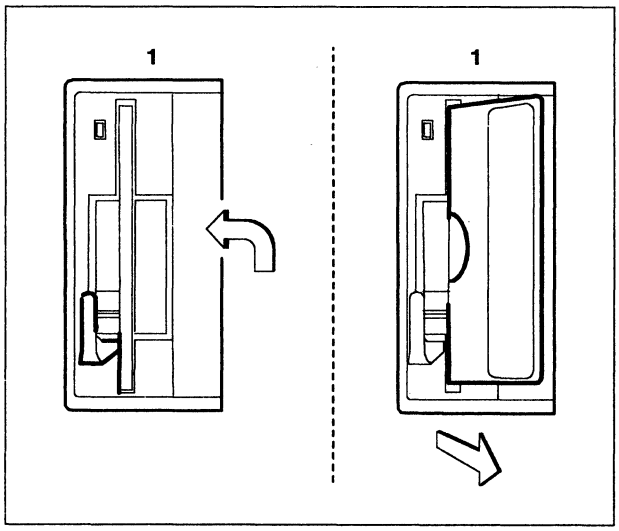


11

Is there a diskette in drive 1?

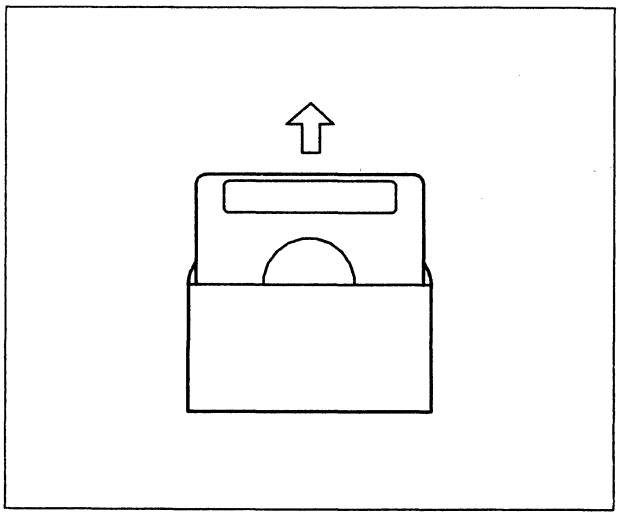
YES Open the lever of drive 1, and remove the diskette.

NO Continue with the next step.



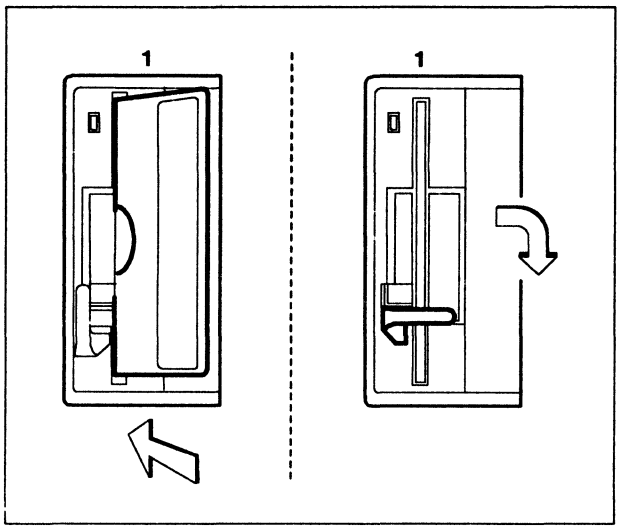
12

Get the Utility diskette and remove it from the protective envelope.



13

With the label facing to the left, insert the Utility diskette into Diskette Drive 1 and close the lever.

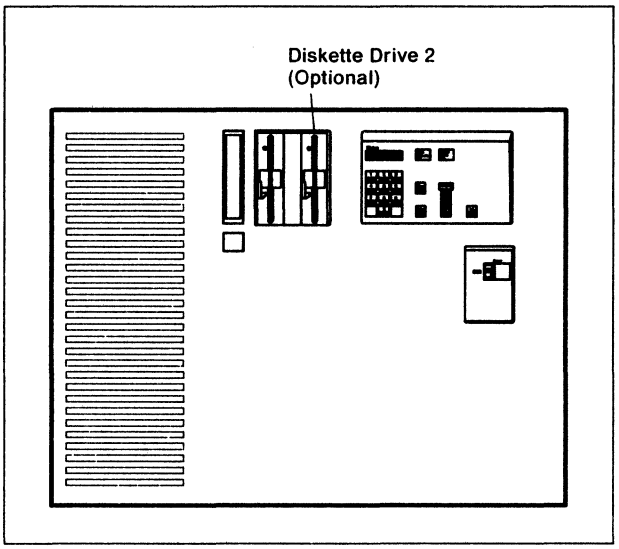


14

Does this control unit have an optional Diskette Drive 2?

YES Continue with the next step.

NO Go to step **16** on page 19.

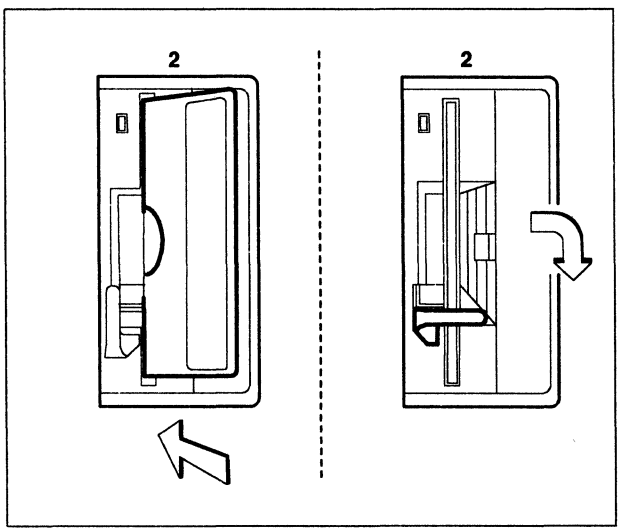


15

Is there a diskette in drive 2?

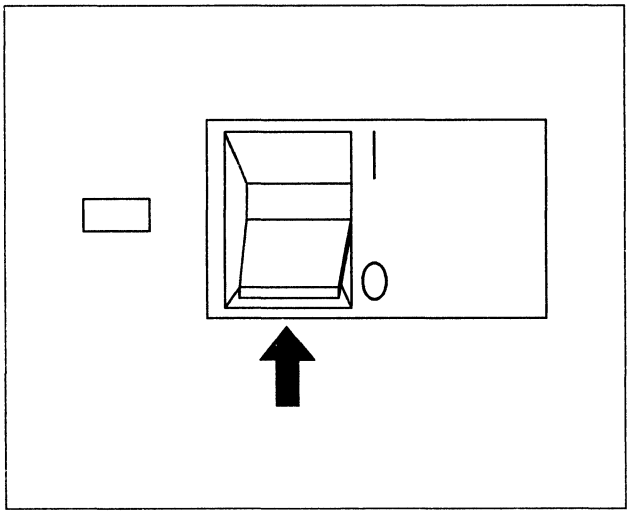
YES Continue with the next step.

NO Insert any 3174 diskette in drive 2, and close the lever.



16

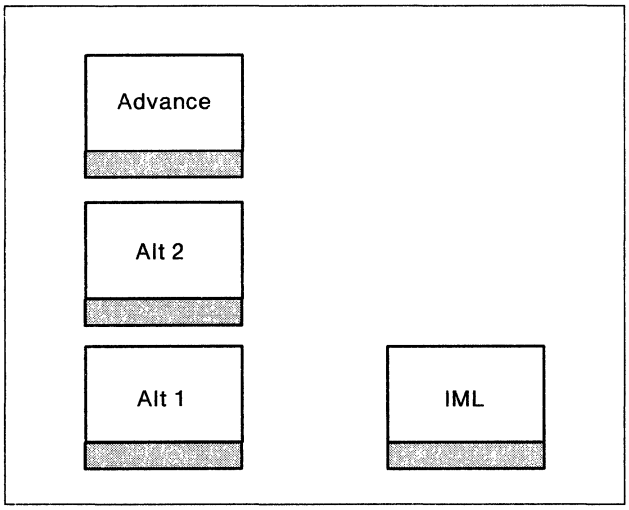
Switch the machine on with the power switch.



17

In the following sequence:

1. Press and hold **Alt 2**
2. Press and release **IML**
3. Release **Alt 2**.



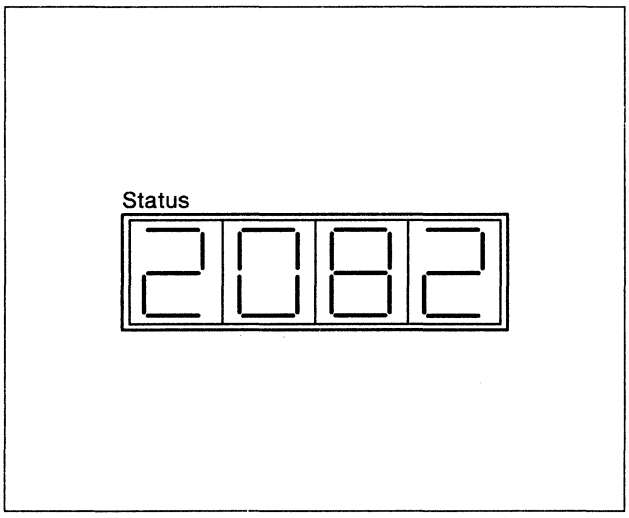
18

Does **2082** appear on the Status display after 1 to 3 minutes?

YES Continue with the next step.

NO See the Status Code information in one of the following:

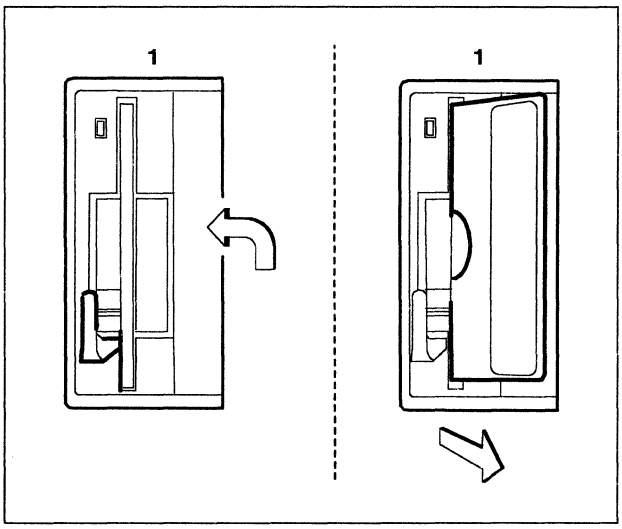
- *IBM 3174 Subsystem Control Unit Models 1L, 1R, 2R, and 3R User's Guide*
- *IBM 3174 Subsystem Control Unit Status Codes.*



19

Open the lever of Diskette Drive 1, and remove the Utility diskette.

Replace the diskette in its protective envelope, and put it in the diskette storage pocket.



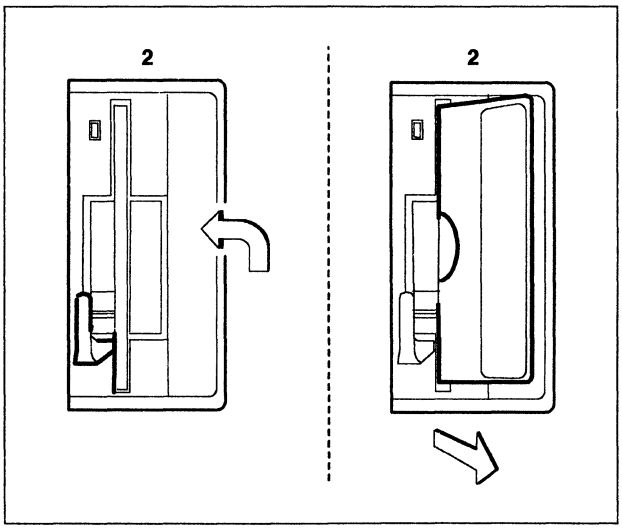
20

Is there an optional Diskette Drive 2?

YES Open the lever of drive 2, and remove the diskette.

Replace the diskette in its protective envelope, and put it in the diskette storage pocket.

NO Continue with the next step.



21

Encrypt/Decrypt Adapter hardware removal is complete.

To make the control unit operational, see "Making the 3174 Operational" in the *IBM 3174 Subsystem Control Unit Models 1L, 1R, 2R, and 3R User's Guide*, GA23-0337.

To customize after removing the Encrypt/Decrypt Adapter feature, see the *IBM 3174 Subsystem Control Unit Customizing Guide*, GA23-0214.

IBM 3174 Subsystem Control Unit
Encrypt/Decrypt Adapter
Customer Installation and Removal Instructions

READER'S COMMENT FORM

Publication No. GA23-0262-1

This manual is part of a library that serves as a reference source for systems analysts, programmers, and operators of IBM systems. You may use this form to communicate your comments about this publication, its organization, or subject matter, with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

Note: Copies of IBM publications are not stocked at the location to which this form is addressed. Please direct any requests for copies of publications, or for assistance in using your IBM system, to your IBM representative or to the IBM branch office serving your locality.

Possible topics for comment are:

Clarity Accuracy Completeness Organization Coding Retrieval Legibility

If you wish a reply, give your name, company, mailing address, date, and location of your local IBM branch office:

_____

_____

_____

_____

_____

What is your occupation? _____

Number of latest Newsletter associated with this publication: _____

Thank you for your cooperation. No postage stamp necessary if mailed in the U.S.A. (Elsewhere, an IBM office or representative will be happy to forward your comments or you may mail directly to the address in the Edition Notice on the back of the title page.)

GA23-0262-1

Reader's Comment Form

Fold and tape | Please Do Not Staple | Fold and tape

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 40 ARMONK, N.Y.

POSTAGE WILL BE PAID BY ADDRESSEE

International Business Machines Corporation
Dept. E02
P.O. Box 12195
Research Triangle Park, N.C. 27709-9990

Fold and tape | Please Do Not Staple | Fold and tape

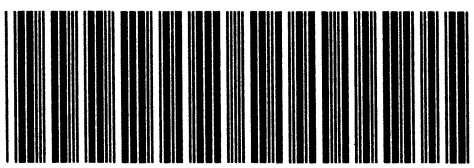
IBM®

GA23-0262-1

Part Number
25F7664

File Number
36/38/370/4300/8100/3174-09

GA23-0262-01



Printed in U.S.A.