Installing SuperStack® II NETBuilder® SI Interface Modules

http://www.3com.com/

Part No. 09-1361-001
Published July 1998

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The network serial connector and the ISDN cable are TNV connection points as defined by EN 41 003. 10BASE-T, 10BASE2, Console, and Flex-WAN ports are SELV ports as defined by EN 41 003.

Electromagnetic Compatibility Information

Classes

Various national agencies (in the United States, The Federal Communications Commission (FCC)) govern the levels of electromagnetic emissions from digital devices. Electromagnetic emissions can interfere with radio and television transmission. To reduce the risk of harmful interference these agencies have established requirements for manufacturers of digital devices

The manufacturer of a digital device must test and label a product to inform an end-user of the maximum emission level from the product when used in accordance with its instructions. The emission levels encountered are classified as Class A or Class B. A system that meets the Class A requirement can be marketed for use in an industrial or a commercial area. A system that meets the more stringent Class B requirement can be marketed for use in a residential area in addition to an industrial or a commercial area.

The end user is generally held responsible for ensuring that his system is suitable for its environment as stated in the above paragraph and bears the financial responsibility for correcting any harmful interference.

Modifications
Modifications or changes made to this device, and not approved by 3Com, may void the authority granted by the FCC, or other such agency, to operate this equipment.

Shielded Cables
Connections between 3Com equipment and other equipment and peripherals must be made using shielded cables in order to maintain compliance with FCC, and other agency, electromagnetic frequency emissions limits. This statement does not apply to the ISDN cable or 10BASE-T cables. For information on shielded cables, refer to the *WAN Cabling and Connectivity Guide*.

Federal Communications Commission (FCC) Notice
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

In order to meet FCC Class B limits, this equipment must be used only with cables which comply with IEEE 802.3.

The user may find the following booklet prepared by the Federal Communication Commission helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Canadian Notice
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Avis Canadien
Cet appareil numérique respecte les limites bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

Canadian Certification Notice
The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the users' satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the inside wiring associated with a single line individual service may be extended by means of a certified connector assembly. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: *Users should not attempt to make electrical ground connections by themselves, but should contact the appropriate inspection authority or an electrician, as appropriate.*

FCC Part 68

This equipment complies with Part 68 of the Federal Communications Commission (FCC) rules. On the product is a label that contains the FCC registration number for this device. If requested, this information must be provided to the telephone company.

This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See installation instructions for details.

If this device causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. The telephone company may request that you disconnect the equipment until the problem is resolved.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of this equipment If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

CSU/DSU Module

This device is intended to connect to Digital Data Services in the U.S.A. Please inform the telephone company of the following information pertaining to this device before installation. Note that this device does not handle encoded analogue content and therefore does not require that a Digital Affidavit be filed with the telephone company.

FCC Registration Number	See label on product
Required connector (USOC)	RJ-48S
Service Order Code (SOC)	6.OY
Facility Interface Codes (FIC)	04DUS-56, 04DUS-64

NTI Module

This device is intended to connect to ISDN Basic Rate Service in the U.S.A. Please inform the telephone company of the following information pertaining to this device before installation. Note that this device does not handle encoded analogue content and therefore does not require that a Digital Affidavit be filed with the telephone company.

FCC Registration Number	See label on product
Required Connector (USOC)	RJ-49
Service Order Code (SOC)	6.OY
Facility Interface Codes (FIC)	02IS5

CE Notice

Marking by the symbol CE0344X indicates compliance of this equipment with the EMC, Telecom and Low Voltage Directives of the European Community. Such marking is indicative that this equipment meets or exceeds the following technical standards:

EN55022 — Limits and methods of measurement of radio interference characteristics of information technology equipment.

EN50082.1 — Electromagnetic compatiblity - generic immunity standard part 1: residential, commercial, and light industrial.

CTR2 — Connection of WAN ports to X.25 packet switching and X.21 leased line services.

CTR3 — Connection to Basic Rate ISDN services.

EN 60950 — Safety of Information Technology Equipment including Electrical Business Equipment.

EN 41003 — Particular safety requirements for electrical equipment to be connected to Telecom networks.

Software contained in this product may contain encrypted product which may not be exported or transferred from the U.S. or Canada without an approved U.S. Department of Commerce export license.

INSTALLING OR REMOVING AN INTERFACE MODULE

This document describes how to install or remove interface modules in SuperStack II NETBuilder SI bridge/routers.

The following table lists each model number and the interface module it represents.

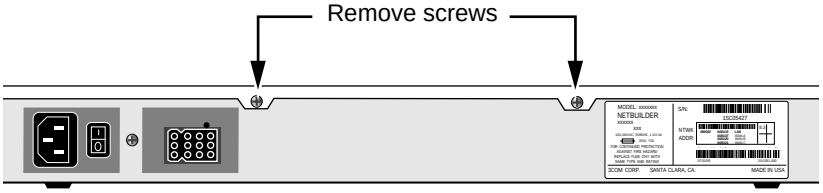
Model	Module Installed
43x/53x	ISDN S/T port with no interface module
44x/54x	ISDN U interface module
45x/55x	56/64 Kbps CSU/DSU module
46x/56x	T1/FT1 CSU/DSU module

You can change any model 4xx bridge/router to another model 4xx bridge router, or any model 5xx bridge/router to another model 5xx bridge/router, by installing, removing, or replacing the interface module.

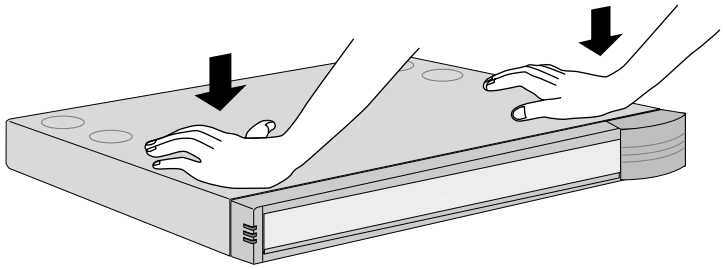
Removing the Cover

To remove the cover, follow these steps:

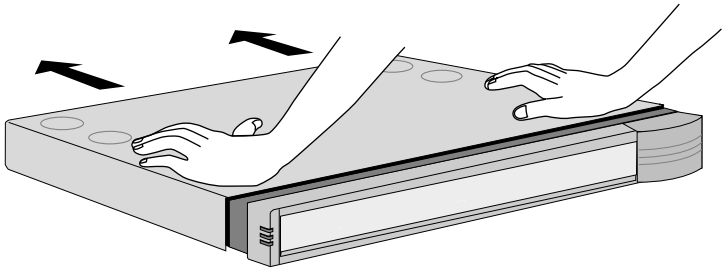
1. **Remove the power cord and all cables from the chassis.**
2. **If the bridge/router is mounted with brackets, unmount it and remove the brackets.**
3. **Remove the two screws from the back of the chassis.**



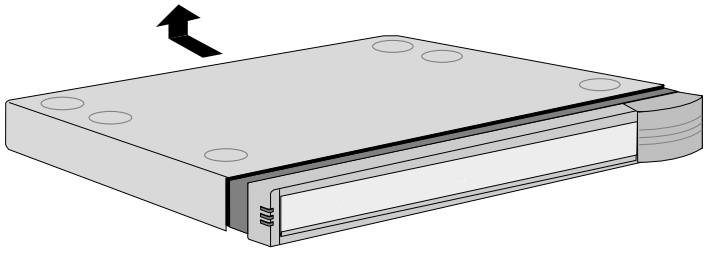
4 Remove the cover.



Push down on cover with both hands



Slide cover back slightly

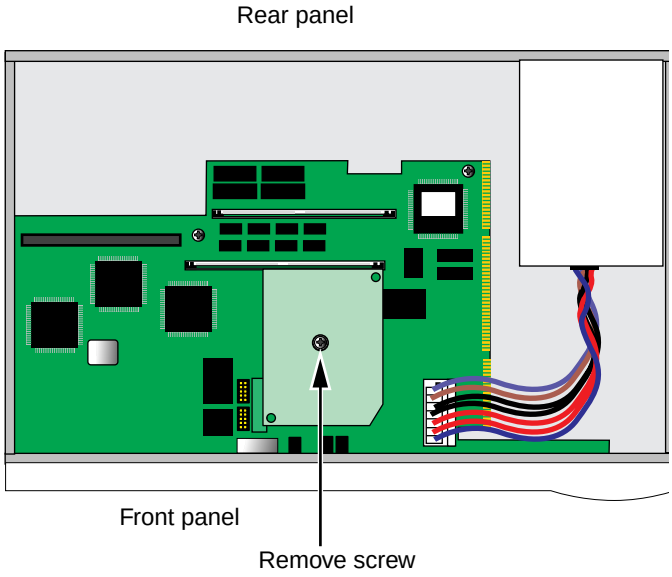


Lift cover away from chassis

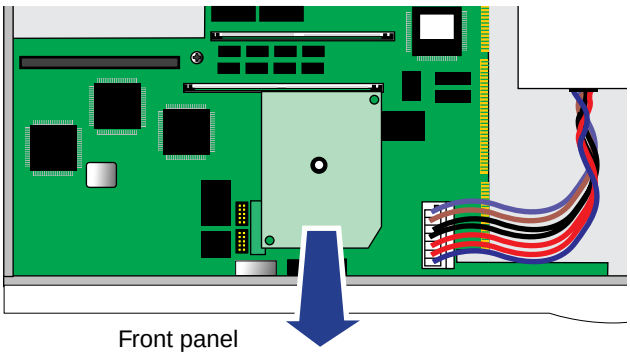
Removing an Existing Module (Model 4xx)

To remove an existing module from a model 4xx bridge/router, follow these steps:

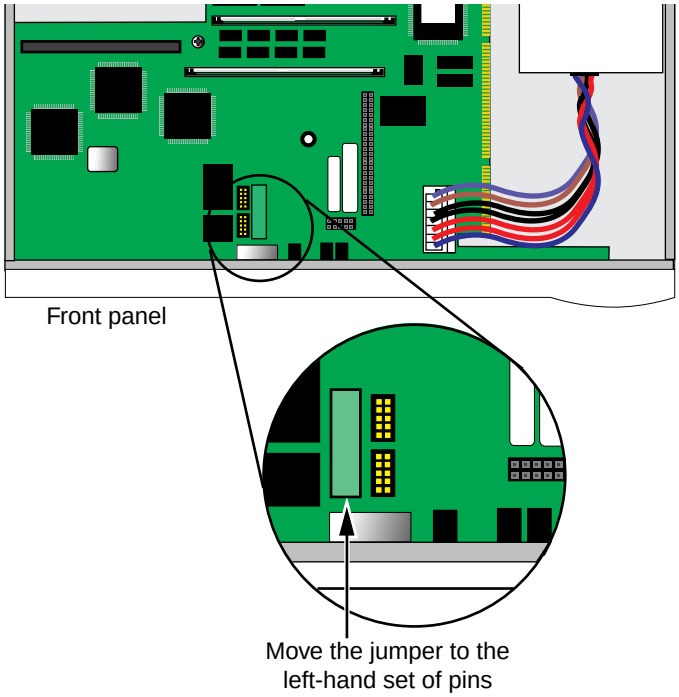
1 Remove the screw from the standoff.



2 Remove the module.

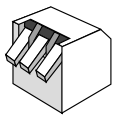


3 **If you are not installing another module, change the jumper to the left-hand set of pins and reinstall the screw on the standoff.**



4 **Reinstall the cover and the cover screws.**

CAUTION: *The DIP switches should all be in the down position. The DIP switches are accessible through an opening on the side of the chassis.*



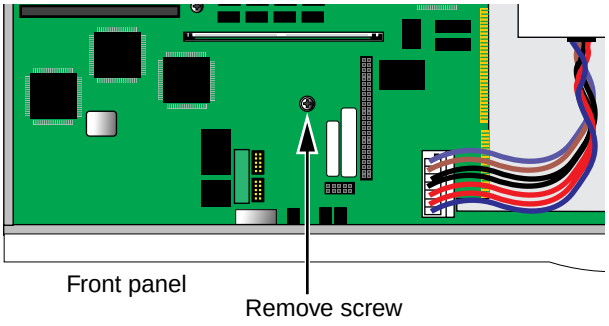
5 **If the bridge/router was mounted with brackets, reinstall the brackets and remount it.**

6 **Reconnect the power cord and all cables.**

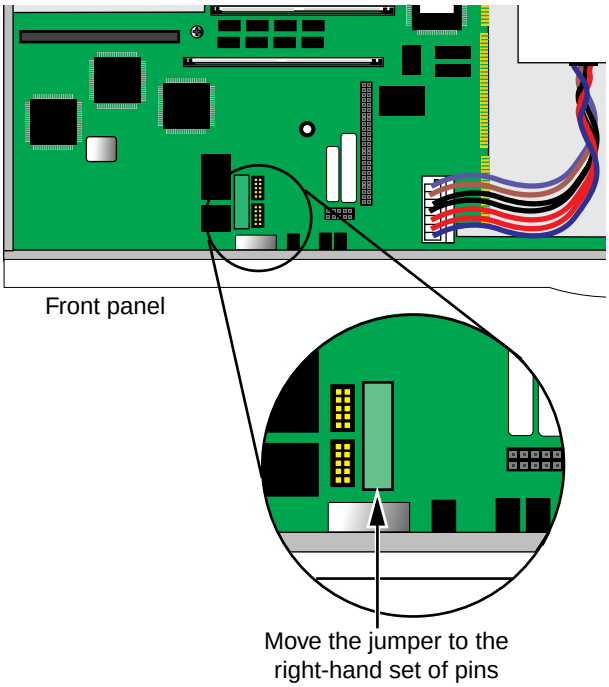
Installing a New Module (Model 4xx)

To install a new module in a model 4xx bridge/router, follow these steps:

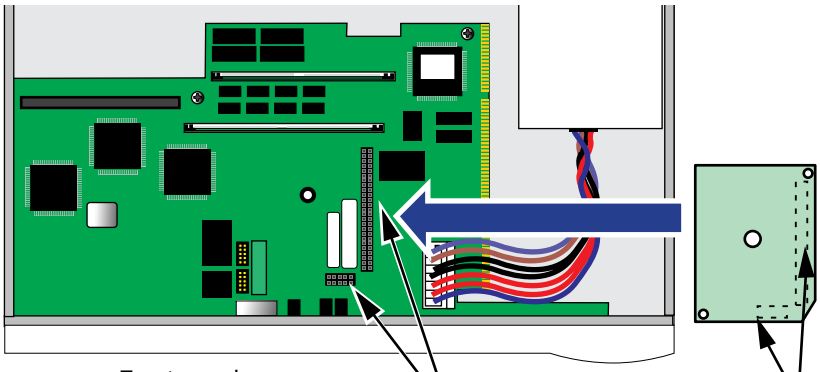
1 Remove the screw from the standoff if necessary.



2 Move the jumper to the right-hand set of pins.



3 Insert the new module.

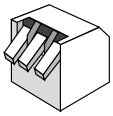


Install module by matching connectors

4 Reinstall the screw on the standoff.

5 Reinstall the cover and the cover screws.

CAUTION: *The DIP switches should all be in the down position. The DIP switches are accessible through an opening on the side of the chassis.*



DIP switches should all be in the down position

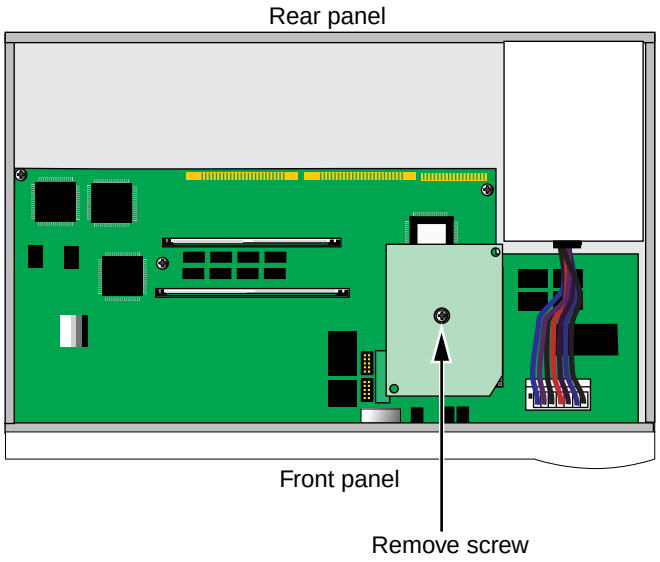
6 If the bridge/router was mounted with brackets, reinstall the brackets and remount it.

7 Reconnect the power cord and all cables.

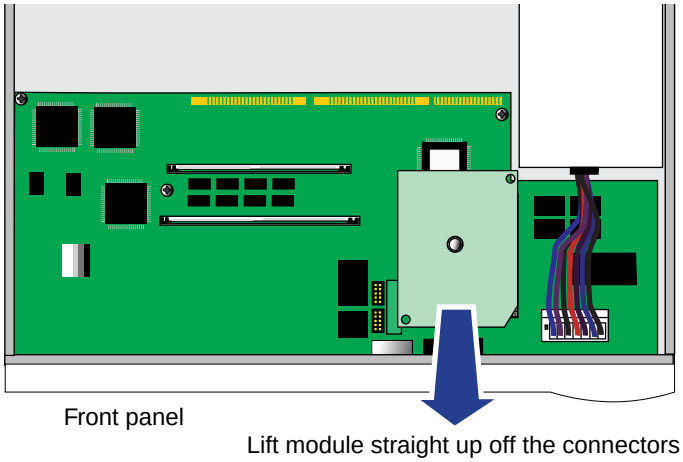
Removing an Existing Module (Model 5xx)

To remove an existing module from a model 5xx bridge/router, follow these steps:

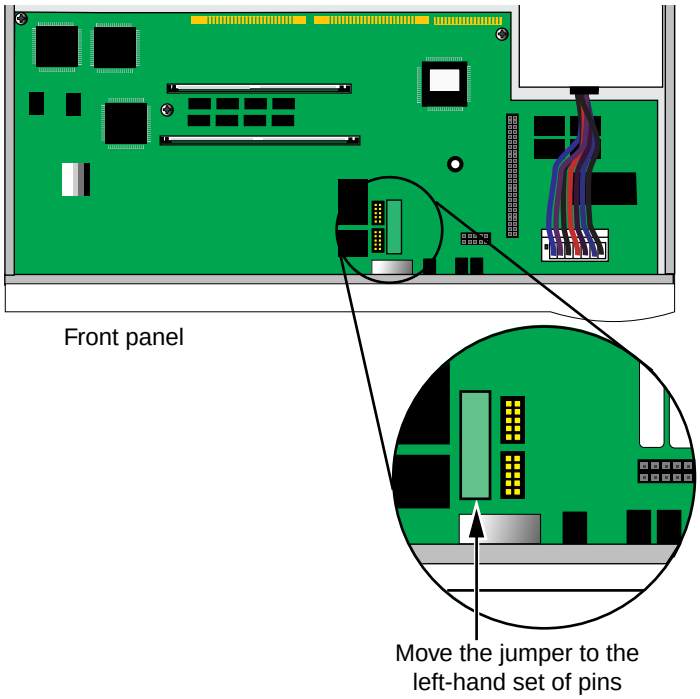
1 Remove the screw from the standoff.



2 Remove the module.

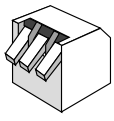


3 If you are not installing another module, change the jumper to the left-hand set of pins and reinstall the screw on the standoff.



4 Reinstall the cover and the cover screws.

CAUTION: *The DIP switches should all be in the down position. The DIP switches are accessible through an opening on the side of the chassis.*



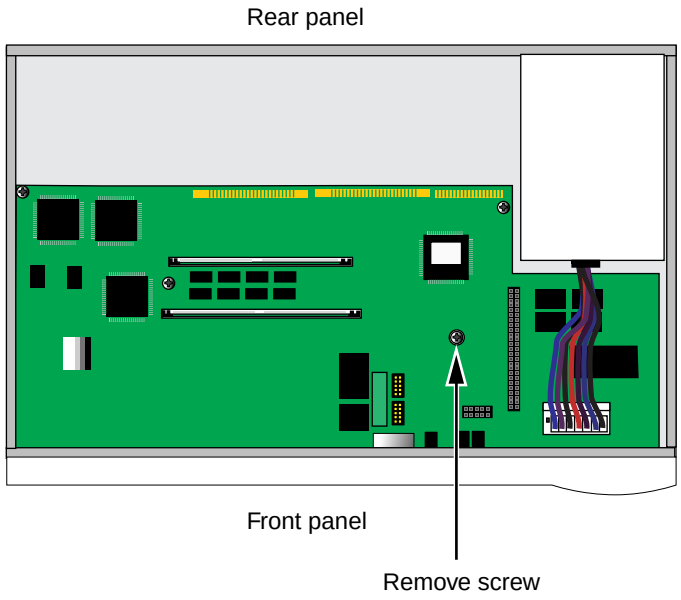
5 If the bridge/router was mounted with brackets, reinstall the brackets and remount it.

6 Reconnect the power cord and all cables.

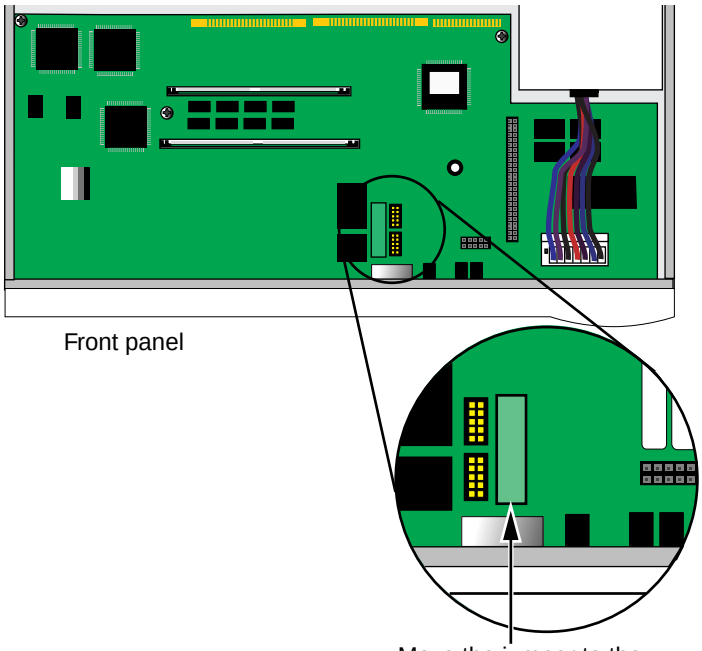
Installing a New Module (Model 5xx)

To install a new module in a model 5xx bridge/router, follow these steps:

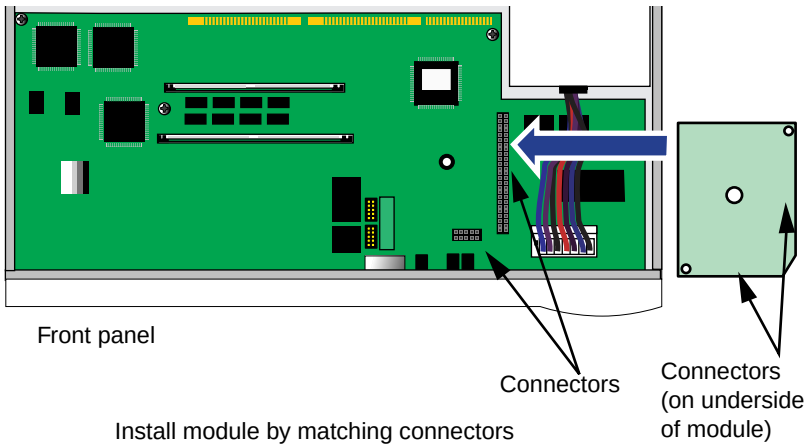
1 Remove the screw from the standoff if necessary.



2 Move the jumper to the right-hand set of pins.



3 Insert the new module.

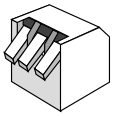


Install module by matching connectors

4 Reinstall the screw on the standoff.

5 Reinstall the cover and the cover screws.

CAUTION: *The DIP switches should all be in the down position. The DIP switches are accessible through an opening on the side of the chassis.*



DIP switches should all be in the down position

6 If the bridge/router was mounted with brackets, reinstall the brackets and remount it.

7 Reconnect the power cord and all cables.

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