



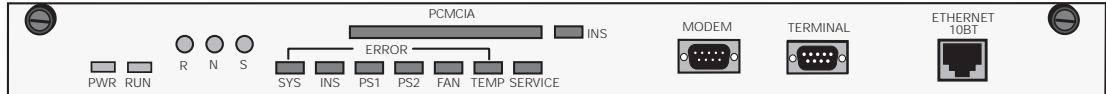
System Processor Removal and Replacement Guide

For the CoreBuilder™ 3500 System

System Processor Description

The CoreBuilder™ 3500 system processor contains one modem port (DB-9) connection, one terminal port (DB-9) connection, and one 10BASE-T (RJ-45) connection. It also contains one PCMCIA slot to allow for FLASH memory updates.

For a description of how to configure this module into your network, see the CoreBuilder 3500 documentation set.



Status LEDs

The system processor contains several LEDs to indicate system status, as described in the following table.

LED	Color	Description
PWR	Green	The system processor is receiving power.
RUN	Blinking Green Steady Green	The system processor is operating. The system processor is running diagnostics.
SYS	Steady Yellow Blinking Yellow	The system processor failed at power up. A hardware/software mismatch has occurred.
INS	Yellow	The system processor is not fully seated.
PS1	Yellow	The first power supply failed, is out of specification, or is not plugged in.
PS2	Yellow	The second power supply failed, is out of specification, or is not plugged in.
FAN	Yellow	The fan has slowed or shut down.
TEMP	Yellow	The system has overheated.
SERVICE	Yellow	System service mode is active. (For 3Com service personnel only)
PCMCIA INS	Green	A PCMCIA card is inserted in the system.

Audience Description This guide is intended for **trained technical personnel** only. Do not attempt to remove or replace a CoreBuilder 3500 system processor if you have not had the proper training from 3Com. For training information, call 1-800-NET-3COM.



WARNING: *Hazardous energy exists within the system. Use extreme caution when removing or replacing the system processor. Always be careful to avoid electric shock or equipment damage. See "Safety Precautions" next.*

Safety Precautions Be sure that you follow all safety precautions when replacing components in a CoreBuilder 3500 system. To avoid electric shocks, burns, or equipment damage, read and follow these warnings:



WARNINGS: *Before you open the chassis, always unplug the power cord.*

When the system is on, never insert metal objects such as a screwdriver or a finger with jewelry into open module slots.

When the system is on, do not touch any connections within the chassis with your hands or fingers.

ESD Safety Information

Electrostatic discharge (ESD) can damage components on the system module. ESD, which occurs when the processor is improperly handled, can cause complete or intermittent failures. To prevent ESD-related damage:

- Always wear the ESD wrist strap that is provided with the system processor, ensuring that the strap makes good skin contact.
- Keep the system processor in its antistatic shielded bag until you are ready to install it.
- Always handle the system processor by its edges.
- Do not touch the components, pins, leads, or solder connections.

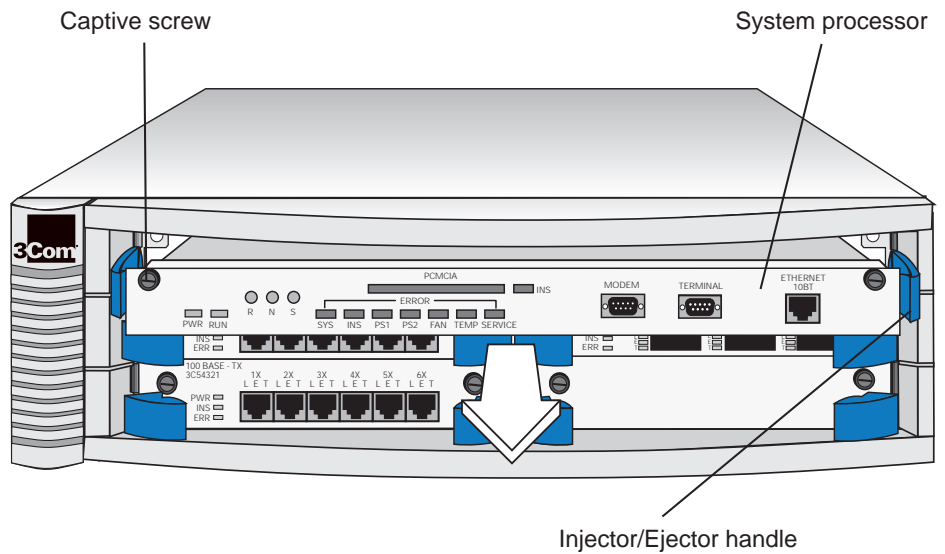
Removing a System Processor

You can remove a system processor while the system is on.

To remove a system processor:

- 1 Disconnect all cables from the system processor's ports.
- 2 Loosen the two captive screws that secure the system processor to the chassis.
- 3 Move the injector/ejector handles to the outward position.
- 4 Gently slide the system processor out of the chassis. See Figure 1.

Figure 1 Removing the System Processor



Installing a System Processor

To install a new system processor, follow the steps in this section.



CAUTION: When you handle a system processor, 3Com recommends that you always wear a wrist strap that is connected to a proper ground. This precaution helps prevent electrostatic discharge from damaging the system processor. Also, when you are not using the system processor, store it in an antistatic bag.

- 1 Put the ESD wrist strap on and ensure that you are properly grounded.
- 2 Remove the system processor from its antistatic bag.



WARNING: If the system is on when you are installing the system processor, do not insert any metal objects into the open slot (for example, a screwdriver or a finger with jewelry). Doing so can cause burns or other bodily harm, as well as system damage.

- 3 With the injector/ejector handles in the outward position, place the system processor between the guides of the system processor installation slot and slide it into the chassis.
- 4 To engage the system processor and backplane connectors, move the injector/ejector handles to the inward position. You feel a slight resistance as the connectors engage.



CAUTION: If the resistance is too great, the system processor and backplane connectors may not be aligned. Forcing the system processor inward can damage the system processor or backplane connectors. If necessary, remove and reinsert the system processor, ensuring that the connectors are properly aligned. Do not tighten the captive screws to seat the system processor.

- 5 Tighten the captive screws to secure the system processor in the chassis.

After you have installed the system processor, see Chapter 4: *Cabling the System* in your *Getting Started Guide* for information about cabling your system processor to the network.



The system resets itself when a system processor is installed with the power on.

System Processor Diagnostics

You can configure the system to run diagnostic software at power up. This software verifies that every component in the system is fully functional before the system begins running on the network.

If any component fails during power-up diagnostics, the system either fails to power up or it keeps faulty modules off-line. To determine which modules, if any, have failed diagnostics, after the system is operating, view the system LEDs or examine the system configuration in the Administration Console.

In addition, watch these indicators:

- When you first power up the system, the system processor **PWR** LED and **RUN** LED light green, indicating that the system is running diagnostics.
- If the system successfully completes the system diagnostics, the **RUN** LED blinks green, indicating that the system processor is operational.
- If the **SYS** LED is yellow, the system processor has failed at power up.

For technical support, see the Technical Support Appendix in the *CoreBuilder 3500 Getting Started Guide* or (in the USA) contact 3Com Customer Service at 1-800-876-3266, option 2.

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The duration of the warranty for the CoreBuilder™ 3500 System Processor Module (3C35004) is 1 year.

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3Com warrants its hardware products to be free from defects in workmanship and materials, under normal use and service, for the following lengths of time from the date of purchase from 3Com or its authorized reseller:

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