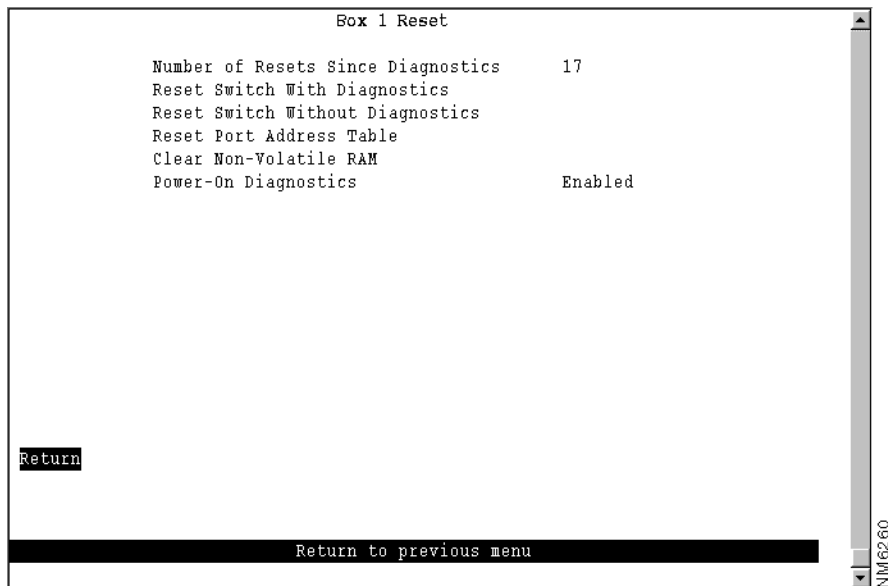# Resetting the Catalyst 3900

To reset the switch and run the power-on diagnostics, select **Reset** on the Main Menu. The Reset panel (Figure 9-1) is displayed.

Figure 9-1   Reset Panel

```
                        Box 1 Reset                                    ▲

        Number of Resets Since Diagnostics      17
        Reset Switch With Diagnostics
        Reset Switch Without Diagnostics
        Reset Port Address Table
        Clear Non-Volatile RAM
        Power-On Diagnostics                 Enabled













 Return




                    Return to previous menu
                                                                       ▼
```

The following information is displayed on this panel:

- Number of Resets Since Diagnostics—Number of times the unit has been reset since the unit was powered on or ran power-on diagnostics. This number is not reset to 0 when you reset a port address table.

- Power-On Diagnostics—Indicates whether the power-on diagnostics are run when the Catalyst 3900 is powered on.

To	Select	Then
Reset the Catalyst 3900, clear all counters, including address tables, and run diagnostic tests…	**Reset Switch With Diagnostics**	If the switch is part of a stack, you are prompted specify whether you want to reset a single switch or the entire stack. You are then prompted to confirm the reset and press any key to initiate the reset. This action does not clear any user-configured parameters. When the Catalyst 3900 restarts, parameters from NVRAM are used to initiate the operational parameters.
Reset the Catalyst 3900 and clear all counters including address tables without running diagnostic tests…	**Reset Switch Without Diagnostics**	If the switch is part of a stack, you are prompted specify whether you want to reset a single switch or the entire stack. You are then prompted to confirm the reset and press any key to initiate the reset. This action does not clear any user-configured parameters. When the Catalyst 3900 restarts, parameters from NVRAM are used to initiate the operational parameters.
Clear all table entries for a selected port or all ports, set all port traffic counter to 0, and set time since last reset to 0…	**Reset Port Address Table**	
Delete all user-configured parameters, such as IP address and baud rate information, and reset the Catalyst 3900…	**Clear Non-Volatile RAM**	

Note Clearing NVRAM erases all configuration parameters. If you are using the TokenChannel feature, be sure to disconnect the affected ports or disable them on the corresponding switch *before* clearing NVRAM. If you are using the spanning-tree option, it will be turned off and port costs and priorities will be lost, which can result in loops. Use the menus to reestablish port costs and priorities. If you are using an SNMP manager, you will need to reconfigure all IP and SNMP parameters.

If the Catalyst 3900 is connected to a terminal via the EIA 232 port, the diagnostic messages (similar to those in Figure 9-2) should appear after you reset the Catalyst 3900 with diagnostics. An abbreviated version of these messages will appear if you reset the Catalyst 3900 without diagnostics.

Figure 9-2   Diagnostics Messages

```
BootStrap Firmware v2.1, Copyright 1996-1997
- Initiating bootstrapping sequence.
- Boot image integrity check...Passed.
- Control transferred to boot process.
Boot Firmware (Phase II) v2.1
- Program memory test........Passed.
- Relocating main image to DRAM.....................................
...........................................Done.
- Main image integrity check...succeeded.
- Control transferred to main process.
- Starting diagnostics.
  - 32-bit network memory test........Passed.
  - 16-bit network memory test........Passed.
  - 8-bit network memory test........Passed.
  - Port register and memory test...................Passed.
  - Single port loopback test...................Passed.
  - All ports linked loopback test...................Passed.
- Completed diagnostics.
System Software Version 0.0(3.5), Copyright 1994-1997.
System started on Sat. July 19, 1997  12:38:22
8 Megabytes System memory
2 Megabytes Network memory
- Initialization started
- File system initialized
- System temperature is within safe operating levels
- Checking file system integrity
- Warmboot initialization started
- LAN ports detected:
  - RJ-45 Token Ring: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
- Initializing Ports: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
- Initializing system address table
- System entering stand-alone mode
- Local box number: 1
- System initialization complete
- Starting SNMP v1/v2c bilingual agent task
Total MIB objects: 1235
- Enabling port: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Press RETURN key to activate console...
```