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Fiscal Printer Model 3FA: Argentina Hardware Supplement

Note!

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Third Edition (October 1998)

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Preface

This book provides supplemental hardware information for the Fiscal Printer Model 3F that attaches to the IBM 4693 and 4694 point-of-sale terminals. For supplemental software information, see the *Fiscal Printer Model 3F Software Supplement* for your specific country.

Note: There is a sensor unique to Argentina. This is a *customer receipt paper supply* sensor. When the customer paper receipt paper supply needs to be replaced on the customer receipt station, the display will show Return Code 203. Return Code 203 can either mean that the printer cover is open, or that the customer receipt paper supply needs to be replaced.

Chapter 1 on page 1-1 supplements:

IBM 4693 Point of Sale Terminals: Installation and Operation Guide, SA27-3978 *IBM 4694 Point of Sale Terminal: Installation and Operation Guide*, SA27-4005

Chapter 2 on page 2-1 supplements:

IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual, SY27-0337

Chapter 3 on page 3-1 supplements:

IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices, SY27-0339

Chapter 4 on page 4-1 supplements:

IBM Store Systems: Parts Catalog, S131-0097

Appendix A on page A-1 contains explanations and user responses to system messages.

These publications are also available at the IBM Retail Store Solutions internet site:

- 1. Go to http://www.ibm.com/solutions/retail/
- 2. Select Solutions
- 3. Select Public Documentation to access the Free Publication page
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Note: Before using the Fiscal Publication and the product it supports, be sure to read the *IBM Safety Information* — *Read This First*, GA27-4004.

Chapter 1. Fiscal Printer Installation

This chapter supplements:

IBM 4693 Point of Sale Terminals: Installation and Operation Guide IBM 4694 Point of Sale Terminal: Installation and Operation Guide

4693/4694 Fiscal System Hardware Features

The Model 3FA fiscal printer consists of two major subassemblies: a point of sale (POS) printer, and a fiscal base. The POS printer is a modified version of the IBM Model 3 printer. The modifications include:

- The addition of a customer receipt paper-out sensor
- · The addition of internal mechanical shields
- The addition of a means of securely mounting the printer to the fiscal base.

The Fiscal Base

The fiscal base consist of a power supply, fiscal logic card, and fiscal memory. The fiscal base is secured to the point-of-sale printer with a single screw, then sealed with a tamper-evident wire seal, which protects the fiscal module from unauthorized access. The fiscal label is attached to the fiscal base and contains the same serial number that is electronically written to the fiscal memory in that base.

Note: The fiscal wire seal and the fiscal label are readily visible in every configuration of the POS terminal.

Figure 1-1 on page 1-2 shows a Model 3FA Fiscal Printer mounted in an integrated configuration. For a 4694 configuration, the printer can be mounted on top of the 4694 system unit, or it can be integrated on top of the cash drawer. In either the 4693 or the 4694 configuration, no point-of-sale display is required by fiscal law in Argentina.

Installing the Fiscal Printer

Figure 1-1 illustrates how to install the fiscal printer to the system unit or the cash drawer.

1. Determine which side of the system unit to install the fiscal printer. Install the fiscal printer filler [1] on the opposite side from the fiscal printer.

2. Install the fiscal printer onto the tray [2].

3. Install the tray to the system unit and press in on the locking lever [4] so that it engages the keyboard, printer, and fillers. Check to make sure that the locking lever securely holds the keyboard, printer, and fillers to the system unit.

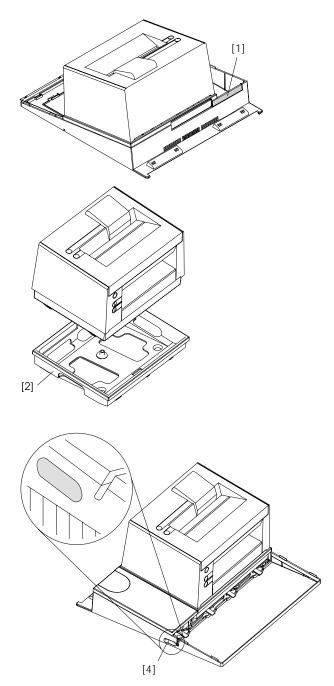


Figure 1-1. Installing the Fiscal Printer

Chapter 2. Hardware Service Manual Supplement

This chapter supplements the IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual.

CAUTION:

For your safety, connect equipment requiring electrical power to a properly wired and grounded outlet.

DANGER

Never work on equipment or connect or disconnect signal cables during periods of lightning activity.

Messages

There are messages that are displayed or printed at the point-of-sale terminal to provide information about the fiscal printer:

- Power-On Reset
- Tnnn
- Wnnn
- Ennn

For other messages, see Appendix A on page A-1, or "Return Code Conversion Table (4690 OS to DOS)" on page A-25. Also see the *IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual.*

Power-On Reset Messages

At power-on reset completion, a message is printed on the customer receipt and summary journal stations to inform the operator of the fiscal unit status. If no message is printed, there may be a printer error interfering with the power-on reset. Refer to the terminal display for guidance. See Figure 2-1 for power-on reset message examples.

Power-on Message FSS0001: This message indicates all of the following:

- 1. The printer has had its serial number stored in its fiscal memory.
- 2. The printer has been set in "fiscal mode."
- 3. All power up diagnostics ran with no problems.

```
      *
      NO FISCAL HOMOLOGADO *
      "NOT FISCAL HOMOLOGATED"

      FSS0001
      mmm ssssss vv
      "FISCAL REGISTER ACTIVATED"

      dd/mm/yy hh:mm:ss
      Date and Time

      D.N.F.H.: nnn
      *
      "NOT FISCAL HOMOLOGATED"
```

Figure 2-1. Power On Message - FSS0001

mmm= Manufacturing/brand/model idssssssss= Machine serial numbervv= Code versiondd/mm/yy= Datehh:mm= Timennn= non-fiscal documents counter

Power-on Message FSS0002: This message indicates all of the following:

- 1. The printer has had its serial number stored in its fiscal memory.
- 2. The printer has been set in "fiscal mode."
- 3. There was an error detected during the power on diagnostics. The field eee immediately after the FSS0002 is the error return code, which is described in Table 3-4 on page 3-5, or Appendix A on page A-1 of this manual.

	•
* NO FISCAL HOMOLOGADO *	"NOT FISCAL HOMOLOGATED"
FSS0002-eee mmm ssssss vv	
REGISTRADORA FISCAL NO ACTIVA	"FISCAL REGISTER NOT WORKING"
D.N.F.H.: nnn	
* NO FISCAL HOMOLOGADO *	"NOT FISCAL HOMOLOGATED"

Figure 2-2. Power On Message - FSS0002

eee= Error codemmm= Manufacturing/brand/model idssssssss= Machine serial numbervv= Code versionnnn= non-fiscal documents counter

Power-on Message FSS0003: This message indicates all of the following:

- 1. The printer has not had its serial number stored in its fiscal memory.
- 2. The printer has not yet been set in "fiscal mode."
- 3. All power up diagnostics were successful.

```
      * NO FISCAL HOMOLOGADO *
      "NOT FISCAL HOMOLOGATED"

      FSS0003
      mmm sssssss
      vv

      REGISTRADORA FISCAL ACTIVA
      "FISCAL REGISTER ACTIVATED"

      dd/mm/yy hh:mm:ss
      Date and Time

      D.N.F.H.: nnn
      "NOT FISCAL HOMOLOGATED"

      * NO FISCAL HOMOLOGADO *
      "NOT FISCAL HOMOLOGATED"
```

Figure 2-3. Power On Message - FSS0003

mmm= Manufacturing/brand/model idssssssss= Machine serial numbervv= Code versiondd/mm/yy= Datehh:mm:ss= Timennn= non-fiscal documents counter

Power-on Message FSS0004: This message indicates all of the following:

- 1. The printer has had its serial number stored in its fiscal memory.
- 2. The printer has not yet been set in "fiscal mode."
- 3. All power up diagnostics were successful.

```
* NO FISCAL HOMOLOGADO *<br/>FSS0004"NOT FISCAL HOMOLOGATED"REGISTRADORA FISCAL ACTIVA<br/>dd/mm/yy hh:mm:ss"FISCAL REGISTER ACTIVATED"<br/>Date and TimeD.N.F.H.: nnn<br/>* NO FISCAL HOMOLOGADO *"NOT FISCAL HOMOLOGATED"
```

Figure 2-4. Power On Message - FSS0004

mmm= Manufacturing/brand/model idsssssss= Machine serial numbervv= Code versiondd/mm/yy= Datehh:mm:ss= Timennn= non-fiscal documents counter

Power-on Message FSS0005: This message indicates all of the following:

- 1. The printer has not had its serial number stored in its fiscal memory.
- 2. The printer has not yet been set in "fiscal mode."
- 3. There was an error detected during the power up diagnostics. The field eee immediately after the FSS0005 is the error return code. This error return code is described in the Table 3-2 on page 3-2 or Appendix A on page A-1 of this manual.

```
* NO FISCAL HOMOLOGADO * "NOT FISCAL HOMOLOGATED"
FSS0005-eee vv
CJAJ REGISTRADORA NO ACTIVA "CASH REGISTER NOT WORKING"
D.N.F.H.: nnn
* NO FISCAL HOMOLOGADO * "NOT FISCAL HOMOLOGATED"
```

Figure 2-5. Power On Message - FSS0005

eee= Error codevv= Code versionnnn= non-fiscal documents counter

Power-on Message FSS0006: This message indicates all of the following:

- 1. The printer has had its serial number stored in its fiscal memory.
- 2. The printer has not yet been set in "fiscal mode."
- 3. There was an error detected during the power up diagnostics. The field eee immediately after the FSS0006 is the error return code. This error return code is described in the Table 3-2 on page 3-2 or Appendix A on page A-1 of this manual.

```
      * NO FISCAL HOMOLOGADO *
      "NOT FISCAL HOMOLOGATED"

      FSS0006-eee mmm sssssss vv
      "NOT FISCAL HOMOLOGATED"

      CJAJ REGISTRADORA NO ACTIVA
      "CASH REGISTER NOT WORKING"

      D.N.F.H.: nnn
      * NO FISCAL HOMOLOGADO *

      * NO FISCAL HOMOLOGADO *
      "NOT FISCAL HOMOLOGATED"
```

Figure 2-6. Power On Message - FSS0006

code
ufacturing/brand/model id
nine serial number
e version
fiscal documents counter

Power-on Message FSS0007: This message indicates all of the following:

- 1. The printer **has** had its serial number stored in its fiscal memory.
- 2. The printer has been set in "fiscal mode."
- 3. The fiscal printer memory has locked.

	-
* NO FISCAL HOMOLOGADO *	NOT FISCAL HOMOLOGATED
FSS0007 mmm ssssss vv	
IMPRESORA FISCAL BLOQUEADA	"FISCAL PRINTER LOCKED"
dd/mm/yy hh:mm:ss	Date and Time
D.N.F.H.: nnn	
* NO FISCAL HOMOLOGADO *	"NOT FISCAL HOMOLOGATED"
	_

Figure 2-7. Power On Message - FSS0007

mmm ssssssss vv nnn dd/mm/yy hh:mm:ss	 Manufacturing/brand/model id Machine serial number Code version non-fiscal documents counter Date Time

Tnnn Messages

These messages are displayed or printed at the point-of-sale terminal when tests are running.

T0020	Request not valid, retry
	Explanation: The test or utility request that was entered is not valid.
	User Response: Re-enter the correct test or utility request.
T0050	RC=xxxxxxxx from main program
	Explanation: A problem is detected within the operating system.
	User Response: Type 0 and press S2 to stop the test and then re-run the test. If the problem remains, see Appendix A for your country's specific return codes.
T0051	Return code = xxx
	Explanation: A problem is detected by the fiscal unit.
	User Response: See "DOS and 4690 OS Return Code Descriptions" on page A-2.
T7160	Fiscal unit failure
	Explanation: A problem is detected in the fiscal unit.
	User Response: Switch POWER OFF and service the fiscal printer.
T7161	Fiscal unit failure
	Explanation: A problem is detected in the fiscal memory.
	User Response: Switch POWER OFF and service the fiscal printer.
T9501	Length of input incorrect. Re-enter.
	Explanation: A date or closure number that was entered for the dump is not valid.
	User Response: Re-enter the correct dates or closure numbers.
T9502	Invalid password
	Explanation: The password that was entered is not valid.
	User Response: Re-enter the correct password.
T9503	No data available
	Explanation: There is no dump data available for the dump request you entered.
	User Response: Re-enter different dates or closure numbers.
T9504	Display error - OR - T9504 Display configuration error
	Explanation:
	 A problem is detected in the point-of-sale display. A problem is detected in the configuration for the point-of-sale displays. Two displays must be configured with a combination of: Alphanumeric Operator display Shopper display

	User Response:
	 Check that two of the correct displays are configured. See Set Display Address as Configured in "Fiscal System Utility – 4690 OS" on page 3-8. Run diagnostics on the displays.
T9505	Print in process. Please wait.
	Explanation: The printer is currently printing a dump request.
	User Response: Re-enter your request after the printing completes.
T9506	Enter lower closure number: NNNN
	User Response: Enter the lower closure number of the dump range.
T9507	Enter upper closure number: NNNN
	User Response: Enter the upper closure number of the dump range.
T9509	Enter start day and month: DDMM
	User Response: Enter the start day and month of the dump range.
T9510	Enter end day and month: DDMM
	User Response: Enter the end day and month of the dump range.
T9511	Enter password
	User Response: Enter the password.
T9512	Enter start year: YYYY
	User Response: Enter the start year of the dump range.
T9513	Enter end year: YYYY
	User Response: Enter the end year of the dump range.
T9515	Enter operator number:
	User Response: Wait for the application to complete loading.
T9516	Enter start address: NNNN
	User Response: Enter the start (lower) address (in decimal) of the dump range.
T9517	Enter end address: NNNN
	User Response: Enter the end (upper) address (in decimal) of the dump range.
T9522	Enter new day and month: DDMM
	User Response: Enter the day of the month and the number of the month in four consecutive digits.
T9523	Enter new year: YYYY
	User Response: Enter all four digits of the year.

T9524	Enter new time: HHMMSS			
	User Response: Enter the time as 00 to 23 hours, 00 to 59 minutes, and 00 to 59 seconds.			
T9525	Enter start address: NNNNN			
	User Response: Enter the start (lower) address of the dump range.			
T9526	Enter end address: NNNNN			
	User Response: Enter the end (upper) address of the dump range.			

Wnnn Messages

This message is displayed or printed at the point-of-sale terminal when store operations are in progress.

W332 FISCAL UNIT PROBLEM

Bx/Sxxx/Ennn RC=xxxxxxxx

Explanation: An error is detected in the fiscal printer.

Programmer Response: Base your actions on the return code in the message. See "Return Code Conversion Table (4690 OS to DOS)" on page A-25 and "DOS and 4690 OS Return Code Descriptions" on page A-2 for your country's specific return codes.

System Action: Logged as B2/S090/Ennn (E030 through E045). See the following event messages.

Ennn Messages

These messages are event messages displayed in conjunction with message W332.

E030	
	Explanation: An error occurred in the fiscal unit at power up.
	User Response: Run the "Fiscal Printer Test – 4690 OS" on page 3-7 to determine the cause of the problem.
E032	
	Explanation: A power line disturbance occurred during command processing.
	User Response: Run the "Fiscal Printer Test – 4690 OS" on page 3-7 to determine the cause of the problem.
E033	
	Explanation: An error occurred while processing the fiscal command.
	User Response: Follow the User Response for the return code in message W332. See "Return Code Conversion Table (4690 OS to DOS)" on page A-25 and "DOS and 4690 OS Return Code Descriptions" on page A-2 for your country's specific return codes.

E034	
	Explanation: An error occurred while writing to the fiscal memory.
	User Response: Follow the User Response for the return code in message W332. See "Return Code Conversion Table (4690 OS to DOS)" on page A-25 and "DOS and 4690 OS Return Code Descriptions" on page A-2 for your country's specific return codes.
E036	
	Explanation: A hardware error occurred in the fiscal unit.
	User Response: Follow the User Response for the return code in message W332. See "Return Code Conversion Table (4690 OS to DOS)" on page A-25 and "DOS and 4690 OS Return Code Descriptions" on page A-2 for your country's specific return codes.
E037	
	Explanation: An incorrect password was used when trying to access the fiscal unit.
	User Response: Re-enter the correct password.
E043	
	Explanation: The fiscal memory is full.
	User Response: The fiscal unit requires service.
E044	
	Explanation: The J4 (CE) jumper is required to continue.
	User Response: The fiscal unit requires service.
E045	
	Explanation: More than 199 repair actions have been performed on the fiscal unit.
	User Response: The fiscal unit requires service.

System Log Descriptions

These tables contain information about the B*x*/S*xxx*/E*nnn* entry in system messages. For additional information, see "System Log Descriptions" in the *IBM 4690 Store System: Messages Guide*.

B2 - Terminal Hardware Errors

SOURC	E(S) EVENT	SYSTEM MESSAGE	UNIQUE DATA	ALERT NO.	EXPLANATION
090	30	W332	See Note	N/A	An error occurred in the fiscal unit on power up.
090	32	W332	See Note	N/A	A power line disturbance (PLD) error occurred during command execution in the fiscal unit.
090	33	W332	See Note	N/A	An error occurred while processing a fiscal command.
090	34	W332	See Note	N/A	An error is detected while trying to write to the fiscal memory.
090	36	W332	See Note	N/A	A hardware error has occurred in the fiscal unit.
090	37	W332	See Note	N/A	An incorrect password was entered when attempting to access the fiscal unit.
Note: U	Jnique Data Fo	rmat:			
DEVICE I PRINTER RETURN (STATUS: XXXX			x	

B3 - Terminal Events

Table 2-2.	B3 - Termir	nal Events			
SOURCE	EVENT	SYSTEM MESSAGE	UNIQUE DATA	ALERT NO.	EXPLANATION
090	043	W332	See Note	N/A	The fiscal unit memory is full.
090	044	W332	See Note	N/A	The J4 (CE) jumper is required to continue.
090	045	W332	See Note	N/A	More than 199 repair actions have been performed on the fiscal unit.
Note: Unique Data Format:					
DEVICE ID: PRINTER ST/ RETURN CODI	ATUS: xxxxx			x	

Chapter 3. Hardware Service Manual for Input/Output Devices Supplement

This chapter supplements the *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices.*

CAUTION:

For your safety, connect equipment requiring electrical power to a properly wired and grounded outlet.

DANGER

Never work on equipment or connect or disconnect signal cables during periods of lightning activity.

Start Here

Run the following two tests sequentially. See the *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices* for details of the tests. The symptoms to troubleshoot the printer depend on adhering to the tests.

- 1. Run the *printer offline test* in the maintenance manual and troubleshoot any failure there.
- 2. When the printer offline test runs correctly, continue with the printer test.

Note: If there is an error message while running the diagnostic, see Table 3-3 on page 3-5 or Table 3-1 on page 3-2. If the message is not in one of these tables, see the messages in the *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices*.

Diagnostic and Service Diskettes

This section contains messages, return codes, and the system utility for the service, support or diagnostic diskettes. See "Printer Repair" in *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices* for printer test procedures.

Fiscal Printer Messages

Use Table 3-1 to determine the cause of a diagnostic or service diskette message.

Printer Message	Repair Action
6338, 63B8	 The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12. Cable 7 is failing. Replace the cable.
T0051 Return Code /xxx	<i>xxx</i> = the three digit Printer Message in Table 3-2.
T7151 The printer is not communicating with the terminal.	 The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12. Cable 7 is failing. Replace the cable.
T7160 Fiscal unit failure	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.

Table 3-1. Diagnostic or Service Diskette Fiscal Printer Messages

Fiscal Printer Return Codes

Use Table 3-2 to determine the cause of diagnostic or service diskette return code T0051. See Appendix A for other hardware and software return codes.

Printer Message	Repair Action
071 Internal code error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
073 Internal code error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
078 Internal code error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
083 Internal fiscal processor error	 Re-seat the cable connected to the fiscal memory. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
086 Invalid password	Use the correct password.
089 Fiscal memory is full	The fiscal memory is full. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
091 Internal processor fiscal error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.

Table 3-2 (Page 1 of 2). Fiscal Printer Return Code Associated with Printer Message T0051

Printer Message	Repair Action
097 RAM pattern is wrong	 Move the J4 (CE) jumper on the fiscal processor card to the active position. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16. If the problem persists, check to see if the J5 jumper on the fiscal processor card was moved instead of the J4 jumper. To recover from this problem, see "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16. If the problem persists, the fiscal processor card may be failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12. Re-seat the cable connected to the fiscal memory. If the cable was disconnected, the J4 jumper procedure is required. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
098 Fiscal RAM is restored	Move the J4 (CE) jumper on the fiscal processor card to the stored position. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16.
099 More than 199 repair actions	The maximum number of repair actions allowed has been reached. Replace the fiscal base FRU when the next failure occurs. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
100 Error reading fiscal memory	 Re-seat the cable connected to the fiscal memory. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
101 Error writing fiscal memory	The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
109 Fiscal memory not connected	 Re-seat the cable connected to the fiscal memory. If the cable was disconnected, the J4 jumper procedure is required. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
113 Unrecoverable printer error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
114 Printer communications error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
120 Printer timeout error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
121 Unrecoverable printer timeout error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
128 Fiscal memory not initialized correctly	The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
129 Fiscal memory not yet in fiscal state	If the printer should be in the fiscal state, then attempt to set fiscal mode using the "Fiscal System Utility – 4694 Service Diskette, 4693 Support and Diagnostic Diskette" on page 3-4. If the fiscal state cannot be set, then the fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
131 Displays not operational	 Check that the correct displays are configured. Run the set display utility. See "Fiscal System Utility – 4694 Service Diskette, 4693 Support and Diagnostic Diskette" on page 3-4. Run diagnostic on the displays.
134 Internal fiscal hardware error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.

Table 3-2 (Page 2 of 2). Fiscal Printer Return Code Associated with Printer Message T0051

Fiscal System Utility – 4694 Service Diskette, 4693 Support and Diagnostic Diskette

This utility is used to print the fiscal printer totals from the fiscal memory, to set the printer in fiscal mode, to set the number of displays and their addresses, to set the time and date, and to print a dump of the RAM and of the fiscal memory EPROM. See "Configuration, Tests, and Utilities" in the *IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual* for more detail.

Running the Utility:

- 1. From the Main Menu, select TEST MENU.
- 2. From the Test Menu, select RUN POS DEVICE TESTS.
- 3. From the Menu TEST-7 (this menu appears on some models of 4693 only), select RUN 4693 MOD xxx TESTS.
- 4. From the Device Test Menu, select FISCAL PRINTER UTILITIES.
- 5. When the Menu UTILITY-4 is displayed, select one of the following:
 - Print All Totals
 - Print All Daily Totals
 - Print All Totals by Date
 - Print All Daily Totals by Date
 - Print All Totals by Closure Number
 - Print All Daily Totals by Closure Number
 - Set Fiscal Mode
 - Set Display Address as Configured
 - Set Date and Time
 - Print RAM data
 - Print memory data
 - Quit
- 6. Follow the instructions on the display.

Note: A password is required for the "Set Display Address as Configured" command.

4690 Operating System

This section contains messages, return codes, the fiscal printer test, and system utility for the 4690 operating system.

Fiscal Printer Messages

Use Table 3-3 to determine the cause of a 4690 operating system message.

Printer Message	Repair Action
T0050 Return Code 8090 <i>xxxx</i>	<i>xxxx</i> = the four digit Printer Message in Table 3-4.
T7151 The printer is not communicating with the terminal.	 The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12. Cable 7 is failing. Replace the cable.
T7160 Fiscal unit failure	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
W332 Fiscal unit problem	See "Wnnn Messages" on page 2-8.

Table 3-3. 4690 Operating System Fiscal Printer Messages

Fiscal Printer Return Codes

Use Table 3-4 to determine the cause of the 4690 operating system return code T0050. See Appendix A for other hardware and software return codes.

Table 3-4 (Page 1 of 2). Fiscal Printer Return Codes Associated with Printer Message T0050

Printer Message	Repair Action
0302 Internal code error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
0303 Internal code error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
0304 Internal code error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
0307 Internal fiscal error	 Re-seat the cable connected to the fiscal memory. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0312 Fiscal memory is full	The fiscal memory is full. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0314 Internal fiscal error	The fiscal processor card is failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
0318 More than 199 repair actions	The maximum number of repair actions allowed was reached. Replace the fiscal base FRU when the next failure occurs. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0320 Fiscal memory not initialized correctly.	The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0321 Fiscal memory not yet in fiscal state	If the printer should be in the fiscal state, then attempt to set fiscal mode using the "Fiscal System Utility – 4690 OS" on page 3-8. If the fiscal state cannot be set, then the fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.

Printer Message	Repair Action
0323 Display not operational	 Check that the display is configured correctly. Run the Set Display utility. See "Fiscal System Utility – 4690 OS" on page 3-8. Run diagnostics on the display.
0324 Fiscal memory not connected	 Re-seat the cable connected to the fiscal memory. If the cable was disconnected, the J4 jumper procedure is required. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0325 Internal fiscal hardware error	The fiscal processor card is failing See "Removing and Replacing the Fiscal Processor Card" on page 3-12.
0326 Error writing fiscal memory	 Re-seat the cable connected to the fiscal memory. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0329 Error reading fiscal memory	 Re-seat the cable connected to the fiscal memory. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0341 Unrecoverable printer error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
0363 Printer communications error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
0401 Invalid password	Use the correct password.
0410 RAM pattern is wrong	 Move the J4 (CE) jumper on the fiscal processor card to the active position. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16. If the problem persists, check to see if the J5 jumper on the fiscal processor card was moved instead of the J4 jumper. To recover from this problem, see "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16. If the problem persists, the fiscal processor card may be failing. See "Removing and Replacing the Fiscal Processor Card" on page 3-12. Re-seat the cable connected to the fiscal memory. If the cable was disconnected, the J4 jumper procedure is required. The fiscal memory is failing. Replace the fiscal base FRU. See "Removing and Replacing the Fiscal Base FRU" on page 3-14.
0411 Fiscal RAM is restored	Move the J4 (CE) jumper on the fiscal processor card to the stored position. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16.
0678 Printer timeout error	The printer card is failing. See "Removing and Replacing the Printer Card" on page 3-13.
0679 Unrecoverable printer timeout error	The printer processor card is failing. See "Removing and Replacing the Printer Card" on page 3-13.

Table 3-4 (Page 2 of 2). Fiscal Printer Return Codes Associated with Printer Message T0050

Fiscal Printer Test – 4690 OS

This test verifies correct operation of the fiscal printer.

Running the test:

- 1. Press **S1**, type **9**, **1** and press **S2** to enter Test Mode.
- 2. Message T0010 is displayed indicating the terminal is in Test Mode and waiting for a test request.
- 3. Type **7**, **1** and press **S2** to start the test.
- 4. An "IH" pattern prints at the customer receipt station.
- 5. Observe the printing to ensure the printer is operating correctly.
- 6. Press S2 to stop printing.
- 7. Press **S2** to start printing at the journal station.
- 8. The "IH" pattern now prints at the journal station.
- 9. Observe the printing to ensure the printer is operating correctly.
- 10. Press S2 to stop printing.
- 11. Insert a document into the printer and press the READY (green) button.
- 12. Press **S2** to start printing on the inserted document.
- 13. The "IH" pattern now prints on the inserted document.
- 14. Observe the printing to ensure the printer is operating correctly.
- 15. Press S2 to stop printing.
 - If there were *no* error messages or symptoms, the test ran successfully.
 - If a message is displayed, follow the **User Response** for the message under "Messages" on page 2-1 or in the *IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual.*
 - If a symptom is observed, see "Symptoms" in the IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual.
- 16. To stop the test, type **0** and press **S2**.
- 17. Message T0010 is displayed indicating the terminal is still in Test Mode and waiting for another test request.
- 18. To exit Test Mode, type 9, 9 and press S2.

Fiscal System Utility – 4690 OS

This utility is used by authorized service personnel when they are servicing the printer with the 4690 operating system.

Running the utility:

- 1. Press S1, type 9, 5 and press S2.
- 2. Wait until "Enter Request" displays.
- 3. Use the KEY SEQUENCE to execute a command from Figure 3-1.
- 4. Follow the instructions on the display.
- 5. Wait until the command has been completed and then:
- Enter another key sequence to execute a command.
 - or -
- Type 9, 9 and press S2 to quit.

COMMAND	KEY SEQUENCE	
Print All Totals	1, 0, 1, S2	
Print All Daily Totals	1, 0, 2, S2	
Print All Totals by Date	1, 1, 1, S2	
Print All Daily Totals by Date	1, 1, 2, S2	
Print All Totals by Closure Number	1, 2, 1, S2	
Print All Daily Totals by Closure Number	1, 2, 2, S2	
Print Fiscal RAM	5, 0, 0, S2	
Print Fiscal EPROM	5, 1, 0, S2	
Set Fiscal Mode	2, 0, 0, S2	
Set New Date and Time	2, 0, 1, S2	
Set Display Address as Configured	4, 0, 0, S2	

Figure 3-1. Utility Commands

Note: A password is required to &oqd.Set Fiscal Mode" or "Set Display Address as Configured" commands..

Removing and Replacing the Fiscal Printer Model 3FA

A non-replaceable lithium battery is inside the unit.

Warning: Turning **POWER OFF** at a 4693 affects operations at all point-of-sale terminals directly attached to it.

Removing the Fiscal Printer

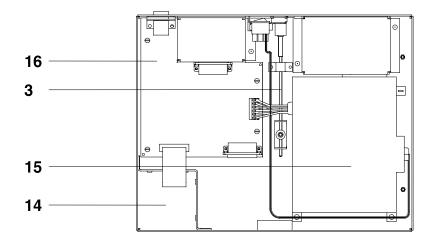
- 1. Switch **POWER OFF** at the point-of-sale terminal.
- 2. Switch **POWER OFF** at the back of the fiscal printer base unit.
- 3. Unplug the power cord from fiscal printer base unit.
- 4. If you are **not** removing the printer cable, continue at step 7.
- 5. Remove the POS terminal back cover.
- 6. Unplug the printer cable from socket 7 on the POS terminal.
- 7. Unplug the printer cable from the printer.

Retain the following items for future use:

- · Both rolls of paper
- Printer cable
- Ribbon cartridge
- Keylock insert and keys or the blank lock insert.

Replacing the Fiscal Printer

- 1. Switch **POWER OFF** at the point-of-sale terminal.
- 2. Switch **POWER OFF** at the back of the fiscal printer base unit.
- 3. If you are **not** replacing the printer cable, continue at step 6.
- 4. Remove the POS terminal back cover.
- 5. Plug the printer cable into socket 7 on the terminal and reinstall the back cover.
- 6. Plug the printer cable into the fiscal printer socket.
- 7. Plug the power cable into the fiscal printer base unit and AC outlet.
- 8. If applicable, reinstall the following:
 - Both rolls of paper
 - Ribbon cartridge
 - Keylock insert and keys or the blank lock insert.
- 9. Switch **POWER ON** at the back of the fiscal printer base unit.
- 10. Switch **POWER ON** at the point-of-sale terminal and verify the printer is operating correctly.



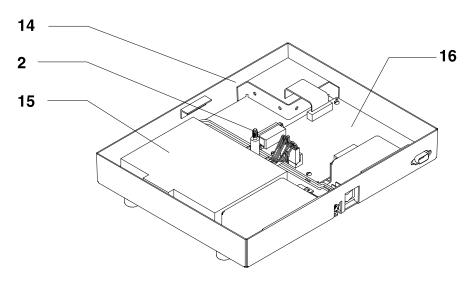


Figure 3-2. The Model 3FA Fiscal Base Unit

Separating and Replacing the Fiscal Base Unit and the Printer

Separating the Fiscal Base Unit from the Printer: A non-replaceable lithium battery is inside the unit.

The call-out numbers in this procedure refer to Figure 3-2 on page 3-10.

- 1. Remove the wire seal from the back of the fiscal printer base unit.
- 2. Remove the fiscal screw [3] and save.
- 3. Remove the security screw [2] from the bottom of the fiscal base unit and save.
- 4. Separate the fiscal base from the printer.

Consult local procedures for recording repair actions and resealing the unit after repairs are complete.

After you separate the fiscal base and printer, all FRUs in the fiscal base are accessible for removal and replacement.

Reinstalling the Fiscal Base onto the Printer

- 1. Install the top cover onto the fiscal base.
- 2. Install the printer onto the fiscal base unit.
- 3. Attach the printer and base unit together by installing the security screw [2] into the bottom of the fiscal base unit. Make sure that the slot on the screw is either parallel or perpendicular to the rear edge of the base unit.
- 4. Install the fiscal screw [3] and fiscal seal and record the repair action according to local procedures.
- 5. Attach the printer to the terminal. See "Replacing the Fiscal Printer" on page 3-9.

Removing and Replacing the Fiscal Processor Card

A non-replaceable lithium battery is inside the unit.

The call-out numbers in this procedure refer to Figure 3-2 on page 3-10.

Removing the Fiscal Processor Card

- 1. Remove the fiscal printer from the POS terminal. See "Removing the Fiscal Printer" on page 3-9.
- 2. Remove the fiscal base unit from the printer. See "Separating the Fiscal Base Unit from the Printer" on page 3-11.
- 3. Remove the top cover from the fiscal base (not pictured).
- 4. Disconnect all cables attached to the fiscal processor card [16]: the printer cable, the power supply [15] cable, and the fiscal memory [14] cable.
- 5. Loosen and remove the screws holding the fiscal processor card [15].
- 6. Remove the fiscal processor card from the fiscal base unit.

Replacing the Fiscal Processor Card

- 1. Insert the fiscal processor card [16] into the fiscal base unit.
- 2. Install and tighten the screws that hold the card to the fsical base.
- 3. Reconnect all cables to the fiscal processor card: the printer cable, the power supply [15] cable, and the fiscal memory [14] cable.
- 4. Activate the J4 jumper. See "Activating the J4 Jumper on the Fiscal Processor Card" on page 3-16.

Removing and Replacing the Printer Card

The call-out numbers in this procedure refer to Figure 3-2 on page 3-10.

Removing the Printer Card

- 1. Remove the fiscal printer from the POS terminal.
- 2. Remove the fiscal base unit from the printer. See "Separating the Fiscal Base Unit from the Printer" on page 3-11.
- 3. Disconnect the cable from the bottom of the printer.
- 4. Remove the main printer cover. See "Removing the Printer Main Cover" on page 3-17.
- 5. Disconnect all of the cables from the printer card [2]. Notice how the cables are routed. If needed, a detailed illustration of the Model 3 printer card is in the *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices*.
- 6. Release the tab holding the card in place. Carefully slide the printer card out of the printer.

Replacing the Printer Card

1. Push the tab away from the card and carefully slide the printer card in the printer until the tab locks in place.

Note: Ensure that the printer card slides under the hooks and that the ground clip is correctly positioned on the left side frame.

- 2. Connect the cables to the card. Connect cables J2, J6, and J7 first and be careful not to reverse cables J3 and J4. Route the cables in their original positions. If needed, a detailed illustration of the Model 3 printer card is in the *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices*.
- 3. Install the main cover on the printer.
- 4. Connect the fiscal base cable to the bottom of the printer.
- 5. Reattach the fiscal base unit to the printer. See "Reinstalling the Fiscal Base onto the Printer" on page 3-11
- 6. Reattach the fiscal printer to the terminal. See "Replacing the Fiscal Printer" on page 3-9.

Removing and Replacing the Fiscal Base FRU

The call-out numbers in this procedure refer to Figure 3-2 on page 3-10.

Note: Follow your local appropriate regulations for this procedure. This procedure may not be permitted to be performed at the customer location depending on your country's law.

- 1. To remove the fiscal base FRU, follow the steps as shown in "Removing the Fiscal Processor Card" on page 3-12. Keep the fiscal processor card [16] for installation in the new fiscal base.
- 2. Install the new fiscal base FRU [14]. Follow the steps in "Replacing the Fiscal Processor Card" on page 3-12.
- 3. Test the fiscal printer with the new base installed. See *IBM 4693, 4694, 4695 Point of Sale Terminals: Hardware Service Manual.*
- 4. Activate the fiscal memory (set fiscal mode on) on the new fiscal printer base if the base being replaced had the fiscal memory activated. Use the fiscal system utilities procedures "Fiscal System Utility 4690 OS" on page 3-8 or "Fiscal System Utility 4694 Service Diskette, 4693 Support and Diagnostic Diskette" on page 3-4.

Cable Wiring Diagrams

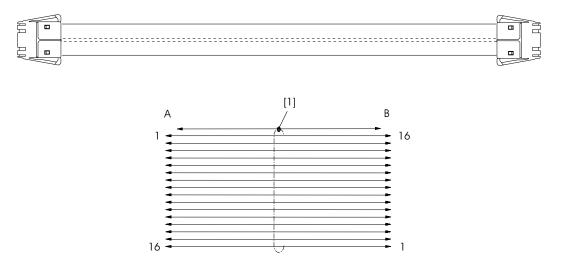


Figure 3-3. Number 7 Cable. [1] is the shield.

Activating the J4 Jumper on the Fiscal Processor Card

This procedure writes the random access memory (RAM) control pattern.

- 1. Switch **POWER OFF** at the terminal and at the back of the fiscal base unit.
- 2. Remove the fiscal base unit from the printer, leaving the cable attached. See "Separating the Fiscal Base Unit from the Printer" on page 3-11.
- 3. Refer to Figure 3-4. Move the J4 jumper to the Active position in Figure 3-4.
- 4. Install the fiscal base unit top cover on the fiscal base, to protect the card from accidental damage.
- 5. Switch **POWER ON** at the fiscal base unit and at the terminal and wait up to 30 seconds to complete RAM initialization.
- 6. Switch **POWER OFF** at the terminal and at the back of the fiscal base unit.
- 7. Move the J4 jumper to the Stored position in Figure 3-4.

Note: When you activate the jumper, the display configuration must be entered again. Also initiate any other information required by local regulations. See the command and key sequences in "Fiscal System Utility – 4690 OS" on page 3-8 and "Fiscal System Utility – 4694 Service Diskette, 4693 Support and Diagnostic Diskette" on page 3-4. Also see fiscal unit return code message 131 in "DOS and 4690 OS Return Code Descriptions" on page A-2.

8. Reinstall the fiscal base unit on the printer. See "Reinstalling the Fiscal Base onto the Printer" on page 3-11.

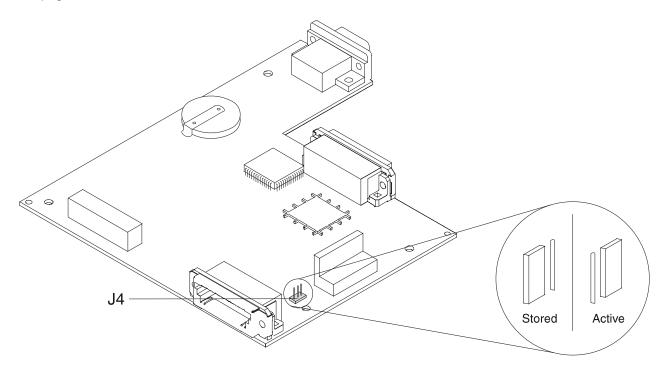


Figure 3-4. Fiscal Processor Card J4 Jumper

Removing and Replacing the Printer Main Cover

Removing the Printer Main Cover

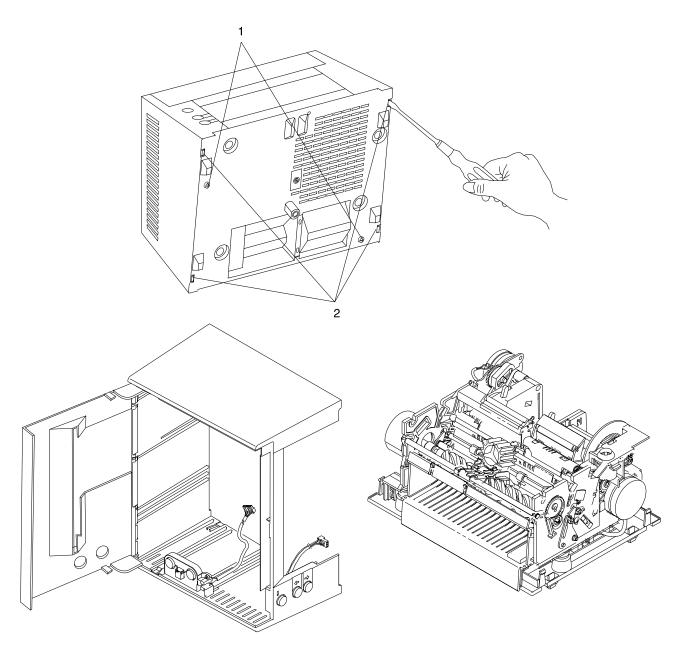
- **1** Switch **POWER OFF** at the terminal and at the back of the fiscal base unit.
- **2** Remove the fiscal printer from the POS terminal. See "Removing the Fiscal Printer" on page 3-9.
- **3** Remove the fiscal base unit from the printer. See "Separating the Fiscal Base Unit from the Printer" on page 3-11.
- **4** Rotate the printer onto its back as shown in Figure 3-5 on page 3-18.

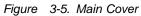
Note: Do not rotate the printer so that it rests on its top.

- **5** Remove the two screws from the bottom of the printer [1] See Figure 3-5 on page 3-18.
- **6** Move the four main cover holding tabs toward the center of the printer with a screwdriver to release them as shown. Rotate the printer so that it rests on its base.
- **7** Remove the main cover from the printer by pivoting the cover onto its left side to prevent damage to the attached cables.
- **8** Disconnect the top and front keypad cables and the cover sensor cable from printer card connectors J8, J9, and J7, respectively. See Figure 3-2 on page 3-10 for an illustration of the printer card.

Replacing the Printer Main Cover

- **1** Place the printer main cover, resting on its left side, to the left of the printer.
- **2** Connect the top and front keypad cables and the cover sensor cable to printer card connectors J8, J9, and J7, respectively. See Figure 3-2 on page 3-10 for an illustration of the printer card.
- **3** Align the holding tabs (2) over their slots. Ensure that all of the printer cables are within the main cover.
- **4** Push down on the main cover until the tabs lock into place. Ensure that all four tabs engage.
- **5** Replace the two screws on the bottom of the printer [1]. See Figure 3-5 on page 3-18.
- **6** Reattach the fiscal base unit to the printer. See "Reinstalling the Fiscal Base onto the Printer" on page 3-11.
- 7 Reattach the fiscal printer to the terminal. See "Replacing the Fiscal Printer" on page 3-9.
- **8** Switch power ON at the fiscal base unit and the terminal.
- **9** Run the Stand-Alone Printer Test.





Chapter 4. 4693/4694 Parts Catalog Fiscal Printer 3FA

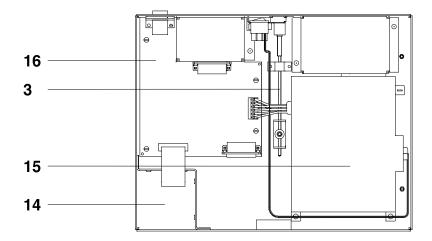
This chapter provides supplemental information for the IBM Store Systems: Parts Catalog.

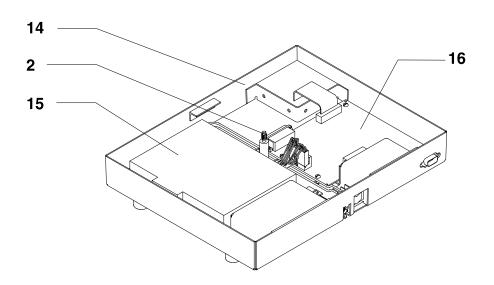
Printer Attachment Cables

The CR paper sensor cable plugs into the extension card at J105.

All other cable part numbers and descriptions for the IBM Fiscal Printer Model 3FA are the same as for the standard Model 3 printer. These can be found in the *IBM Store Systems: Hardware Service Manual for Point-of-Sale Input/Output Devices.*







I

Asm-	Part		
Index	Number	Units	Description
1–			UNIQUE PRINTER PARTS
-	08L2266	1	Printer Logic Card (replaces Model 3 P/N 93F0238) (Not illustrated)
-	08L2267	1	Extension Card (replaces Model 3 P/N 53F4880) (Not illustrated)
-	08L2268	1	CR Frame ASM with CR paper sensor (replaces Model 3 P/N 93F0250) (Not illustrated)
-	08L2270	1	Main Cover (replaces Model 3 P/N 93F0246) (Not illustrated)
			BASE
-	08L2265	1	Top Cover (not illustrated)
-	93F0533	1	Cable (not illustrated)
- -2	25L4699 08L2272	1	Fiscal Security Seal and Wire (Not illustrated)
-2 -3	25L4692	1	Security Screw Fiscal Screw
	85H7685	1	Metal Base with Memory Assembly
-15	08L2263	1	Power Supply
-16	47P0283	1	Fiscal Processor Logic Card Assembly (Argentina only)

Appendix A. Fiscal Unit Return Codes

This chapter contains:

- 4690 hardware return code (ERRN) descriptions
- DOS return code descriptions
- Return code conversion table (4690 OS to DOS)

4690 Hardware Return Code (ERRN) Descriptions

This list contains information about the return code (RC=8090xxxx) in system messages.

Return Codes (ERRNs) 8090xxxx

8090006	
	Explanation: The fiscal unit is off-line.
	User Response: Retry the operation. If the problem remains, replace the fiscal processor card.
8090007	
	Explanation: The fiscal unit is not ready.
	User Response: Retry the operation. If the problem remains, replace the fiscal processor card.
3090008	
	Explanation: A power line disturbance (PLD) occurred during command execution.
	User Response: Issue a Resume command or a Resume Retry command.
80900009	
	Explanation: The command was rejected by the fiscal unit at the time it was issued.
	User Response: Issue the command again.

DOS and 4690 OS Return Code Descriptions

The fiscal unit return codes are contained in byte 8 of the fiscal unit status byte.

Return Codes

001 => DOS	80900101 => 4690 OS		
	Explanation: An overflow occurred. The Return transaction total exceeds the maximum allowed value. The request is not processed.		
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.		
002 => DOS	80900102 => 4690 OS		
	Explanation: An overflow occurred. The Void transaction total exceeds the maximum allowed value. The request is not processed.		
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.		
003 => DOS	80900103 => 4690 OS		
	Explanation: An overflow occurred. The Bonus transaction total exceeds the maximum allowed value. The request is not processed.		
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.		
004 => DOS	80900104 => 4690 OS		
	Explanation: An overflow occurred. The Discount transaction total exceeds the maximum allowed value. The request is not processed.		
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.		
005 => DOS	80900105 => 4690 OS		
	Explanation: An overflow occurred. The Empties transaction total exceeds the maximum allowed value. The request is not processed.		
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.		
006 => DOS	80900106 => 4690 OS		
	Explanation: An overflow occurred. The Miscellaneous transaction total exceeds the maximum allowed value or the Uplift transaction total exceeds the maximum allowed value. The Miscellaneous transaction total exceeds the maximum allowed value. The Uplift transaction total exceeds the maximum allowed value. The uplift transaction total exceeds the maximum allowed value.		
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.		

007 => DOS	80900107 => 4690 OS
	Explanation: An overflow occurred. The Notpaid transaction total exceeds the transaction total value. The request is not processed.
	User Response: Make the Notpaid amount less than or equal to the transaction total.
008 => DOS	80900108 => 4690 OS
	Explanation: An underflow occurred. The current transaction total or one of the VAT Category (or Department) transaction sales totals is less than the minimum allowed value. The request is not processed.
	User Response: Cancel the transaction or make the total greater than the minimum allowed value.
009 => DOS	80900109 => 4690 OS
	Explanation: An underflow occurred. The Return transaction total is less than the minimum allowed value. The request is not processed.
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.
010 => DOS	80900110 => 4690 OS
	Explanation: An underflow occurred. The Void transaction total is less than the minimum allowed value. The request is not processed.
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.
011 => DOS	80900111 => 4690 OS
	Explanation: An underflow occurred. The Bonus transaction total is less than the minimum allowed value. The request is not processed.
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.
012 => DOS	80900112 => 4690 OS
	Explanation: An underflow occurred. The Discount transaction total is less than the minimum allowed value. The request is not processed.
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.
013 => DOS	80900113 => 4690 OS
	Explanation: An underflow occurred. The Empties transaction total is less than the minimum allowed value. The request is not processed.
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.
014 => DOS	80900114 => 4690 OS
	Explanation: An underflow occurred. The Miscellaneous transaction total or Uplift transaction total is less than the minimum allowed value. The Miscellaneous transaction total is less than the minimum allowed value. The Uplift transaction total is less than the minimum allowed value. The Uplift transaction total is less than the minimum allowed value. The uplift transaction total is less than the minimum allowed value.
	User Response: Issue the Total and End Transaction commands to end the sales transaction or a Cancel Transaction command to cancel the sales transaction.

015 => DOS	80900115 => 4690 OS
	Explanation: The Payment Rectify amount is greater than Payment amount. The request is not processed.
	User Response: Make the Payment Rectify amount less than or equal to payment amount.
016 => DOS	80900116 => 4690 OS
	Explanation: An overflow occurred. The daily total or one of the VAT Category (or Department) daily sales totals exceeds the maximum allowed value at Total request time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
017 => DOS	80900117 => 4690 OS
	Explanation: An overflow occurred. The Return daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
018 => DOS	80900118 => 4690 OS
	Explanation: An overflow occurred. The Void daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
019 => DOS	80900119 => 4690 OS
	Explanation: An overflow occurred. The Bonus daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
020 => DOS	80900120 => 4690 OS
	Explanation: An overflow occurred. The Discount daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
021 => DOS	80900121 => 4690 OS
	Explanation: An overflow occurred. The Empties daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
022 => DOS	80900122 => 4690 OS
	Explanation: An overflow occurred. The Miscellaneous daily total or the Uplift daily total exceeds the maximum allowed value at end transaction time. The Miscellaneous daily total exceeds the maximum allowed value at end transaction time. The Uplift daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.

023 => DOS	80900123 => 4690 OS
	Explanation: An overflow occurred. The Notpaid daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
024 => DOS	80900124 => 4690 OS
	Explanation: The user total amount is not equal to the fiscal total amount. The values associated with the total request do not match the totals stored in the fiscal memory. The request is not processed.
	User Response: Correct the computation procedure of the total, then issue an End Transaction or Cancel Transaction command.
025 => DOS	80900125 => 4690 OS
	Explanation: A fiscal rules violation has occurred. The word 'total' (or equivalent) or logo characters occurs in a message when not allowed, or a reserved character is used in the message. Note that not all rules violations apply to all countries. The request is not processed.
	User Response: Correct the fiscal rules violation and try the command again.
026 => DOS	80900126 => 4690 OS
	Explanation: An underflow occurred. A transaction amount was negative at Total request time. This return code applies (where applicable) to:
	 Transaction total VAT total VAT category (or department) total accumulator VAT category (or department) tax accumulator
	The request is not processed.
	User Response: Make the amount greater than or equal to zero, then issue an End Transaction or Cancel Transaction command.
027 => DOS	8090061B => 4690 OS
	Explanation: An overflow occurred. The Discount on Subtotal exceeds the maximum allowed value. The request is not processed.
	User Response: Make the amount less than the maximum allowed value, then issue an End Transaction or Cancel Transaction command.
028 => DOS	8090061C => 4690 OS
	Explanation: An overflow occurred. The Uplift on Subtotal exceeds the maximum allowed value. The request is not processed.
	User Response: Make the amount less than the maximum allowed value, then issue an End Transaction or Cancel Transaction command.
029 => DOS	80900129 => 4690 OS
	Explanation: Tender is not completed. The Payment total was less than the transaction total. The request is not processed.
	User Response: Use the Rectify option on the Payment command or issue an additional Payment command to complete processing. Use the Rectify option on the Payment command, or issue an

additional Payment command, or issue the Notpaid command to complete processing.

031 => DOS	8090061F => 4690 OS
	Explanation: An underflow occurred. The sum of the Discount on Subtotal operations in this sales transaction is less than the minimum allowed value. The request is not processed.
	User Response: Make the amount greater than or equal to the minimum allowed value, then issue an End Transaction or Cancel Transaction command.
032 => DOS	80900620 => 4690 OS
	Explanation: An underflow occurred. The sum of the Uplift on Subtotal operations in this sales transaction is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than or equal to zero, then issue an End Transaction or Cancel Transaction command.
033 => DOS	80900141 => 4690 OS
	Explanation: An underflow occurred. The Return daily total is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than or equal to the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
034 => DOS	80900142 => 4690 OS
	Explanation: An underflow occurred. The Void daily total is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than or equal to the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
035 => DOS	80900143 => 4690 OS
	Explanation: An underflow occurred. The Bonus daily total is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than or equal to the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
036 => DOS	80900144 => 4690 OS
	Explanation: An underflow occurred. The Discount daily total is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than or equal to the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
037 => DOS	80900145 => 4690 OS
	Explanation: An underflow occurred. The Empties daily total is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than or equal to the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
038 => DOS	80900146 => 4690 OS
	Explanation: An underflow occurred. The Miscellaneous daily total or the Uplift daily total is less than the minimum allowed value. The Miscellaneous daily total is less than the minimum allowed value. The Uplift daily total is less than the minimum allowed value. The Uplift daily total is less than the minimum allowed value. The request is not processed.

User Response: Make the total greater than or equal to the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.

040 => DOS	80900628 => 4690 OS
	Explanation: The VAT category field is not blank and the amount field is blank in a Item Sales transaction. The request is not processed.
	User Response: Correct the application program.
041 => DOS	80900629 => 4690 OS
	Explanation: The current VAT rate table is not verified. The request is not processed.
	User Response: Check the application program. The program must issue a Verify VAT Rate Table command before further operations are processed. The VAT rate table must be loaded before issuing the Verify VAT Rate Table command.
042 => DOS	8090062A => 4690 OS
	Explanation: There is a VAT rate table mismatch. The request is not processed.
	User Response: Correct the application VAT rate table and issue the command again.
043 => DOS	8090062B => 4690 OS
	Explanation: The fiscal memory VAT rate table is full. The request is not processed.
	User Response: Call for service. The fiscal base unit must be exchanged in order to load new VAT table rates.
044 => DOS	8090062C => 4690 OS
	Explanation: The VAT category specified in Item Sale or Negative Item Sale command is not valid or the data supplied with the Load VAT Rate Table (20) command is not valid.
	Explanation: The VAT category specified in Item Sale or Negative Item Sale command is not valid. For example, entering a non-zero rate for a category that must be equal to a rate of zero. Other possibilities include:
	 The VAT category used in one of the reference database commands is not valid.
	 The VAT category on the item, negative item, or uplift item sale command did not match the database entry for that item.
	The request is not processed.
	User Response: Correct the application program.
045 => DOS	8090062D => 4690 OS
	Explanation: The Cancel Voucher (07) command is not allowed because the amount total was already printed. The request is not processed.
	User Response: Correct the application program sequence.
046 => DOS	8090062E => 4690 OS
	Explanation: The user tax total amount is not equal to the fiscal tax total amount. The values associated with the Total request do not match the totals stored in fiscal memory. The request is not processed.
	User Response: Correct the computation procedure of the total, then issue an End Transaction or Cancel Transaction command.
047 => DOS	8090062F => 4690 OS
	Explanation: The decimal point is already reset. The request is not processed.
	User Response: No action is required.

048 => DOS	80900630 => 4690 OS
	Explanation: An overflow occurred. The sum of the daily operations for Discount on Subtotal exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
049 => DOS	80900631 => 4690 OS
	Explanation: An overflow occurred. The sum of the daily operations for Uplift on Subtotal exceeds the maximum allowed value. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
050 => DOS	80900632 => 4690 OS
	Explanation: An underflow occurred. The sum of the daily operations for Discount on Subtotal is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
051 => DOS	80900633 => 4690 OS
	Explanation: An underflow occurred. The sum of the daily operations for Uplift on Subtotal is less than the minimum allowed value. The request is not processed.
	User Response: Make the total greater than the minimum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
052 => DOS	80900634 => 4690 OS
	Explanation: The transaction total is equal to zero. The request is not processed.
	User Response: Adjust the transaction total or issue a Cancel Transaction command.
053 => DOS	80900635 => 4690 OS
	Explanation: The requested time used on the Set Date command is not within the allowed range of the current fiscal printer time or the requested time is previous to the date of the last closure stored in the fiscal memory.
	Explanation: The requested time used on the Set Date command is not within the allowed range of the current fiscal printer time.
	Explanation: The requested time used on the Set Date command is previous to the date of the last closure stored in the fiscal memory. The request is not processed.
	User Response: Either correct the time sent to the fiscal printer or, if the fiscal printer time differs from the actual time by more than the allowed range, call for service.
054 => DOS	80900636 => 4680
	Explanation: The Set Date command was attempted within &dateelapse. days since the last time it was set. The request is not processed.
	User Response: If the date and/or time is not correct, call for service.
055 => DOS	80900203 => 4690 OS
	Explanation: The fiscal request message length is less than the minimum required value. The request is not processed.
	User Response: Check the application program.

056 => DOS	80900150 => 4690 OS
	Explanation: An overflow occurred. The cancel transaction daily total exceeds the maximum allowed value at cancel transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue a Cancel Transaction command, and then issue a Daily Closure command.
057 => DOS	80900151 => 4690 OS
	Explanation: An underflow occurred. The cancel transaction daily total is less than the minimum allowed value at cancel transaction time. The request is not processed.
	User Response: Make the total greater than or equal to the minimum allowed value, issue a Cancel Transaction command, and then issue a Daily Closure command.
058 => DOS	8090063A => 4690 OS
	Explanation: An overflow occurred. The Amount Due accumulator exceeds the maximum allowed value. The request is not processed.
	User Response: Correct the payment amount and issue the command again.
059 => DOS	8090063B => 4690 OS
	Explanation: An underflow occurred. The Amount Due accumulator is less than the minimum allowed value. The request is not processed.
	User Response: Correct the payment amount and issue the command again.
060 => DOS	8090063C => 4690 OS
	Explanation: The conditions defined between tax category and reduced-base percent are not valid. The request is not processed.
	User Response: Correct the application program.
061 => DOS	8090063D => 4690 OS
	Explanation: An overflow occurred. The transaction total or one of the VAT category (or department) transaction sales totals exceeds the maximum allowed value on an Item command. The request is not processed.
	User Response: Issue an End Transaction or Cancel Transaction command.
062 => DOS	8090063E => 4690 OS
	Explanation: A sale transaction was attempted at a time outside the time allowed for the active sales period. The request is not processed.
	User Response: Issue a "Daily Closure" (13) command to end the active sales period.
063 => DOS	8090063F => 4690 OS
	Explanation: The Set POS Identification is not loaded. The request is not processed.
	User Response: Use the Set POS Identification command (1E) to load the information. Depending on the country laws, this command may require IBM service personnel.
064 => DOS	80900127 => 4690 OS
	Explanation: An overflow occurred. The specified value received amount from the application program exceeds the maximum allowed amount. The request is not processed.
	User Response: Correct the value and try the operation again.

065 => DOS	80900201 => 4690 OS
	Explanation: A request was sent to the fiscal unit and the fiscal command byte is not recognized. The request is not processed.
	User Response: Check the application program.
066 => DOS	80900202 => 4690 OS
	Explanation: A request was sent to the fiscal unit and the fiscal command byte extension is not recognized. The request is not processed.
	User Response: Check the application program.
067 => DOS	80900643 => 4690 OS
	Explanation: The command was processed successfully. No error occurred.
	User Response: No action is required.
068 => DOS	80900204 => 4690 OS
	Explanation: A request has been made to print more than the allowed number of check or credit card print lines. The request is not processed.
	User Response: Check the application program. Issue an end check or cancel check to exit the check or credit card printing sequence.
069 => DOS	80900205 => 4690 OS
	Explanation: An attempt was made to print a line on the customer receipt or summary journal stations that exceeds the maximum number of ordinary print lines allowed during a fiscal voucher. The request is not processed.
	User Response: Either issue an End Transaction or Cancel Transaction command before printing the ordinary print lines. If this error occurred during the online printer diagnostic test, it indicates that the test cannot be completed because a sales transaction is in progress. Either have the salesperson end the transaction, or diagnose the printer problem using the offline printer test that is invoked by pressing the keys on the printer in the correct sequence.
070 => DOS	80900646 => 4690 OS
	Explanation: Partial line feed dots are out-of-range on the Line Feed Check and Credit Slips (C3) command. The request is not processed.
	User Response: Check the application program sequence.
071 => DOS	80900302 => 4690 OS
	Explanation: An error occurred while printing on a customer receipt. The request is not processed.
	User Response: If the error continues, service the printer.
072 => DOS	80900207 => 4690 OS
	Explanation: The print operation requested during training mode is not valid. The request is not processed.
	User Response: Check the application program.

073 => DOS	80900303 => 4690 OS		
	Explanation: An error occurred while printing on an inserted document. The request is not processed.		
	User Response: If the error continues, service the printer.		
075 => DOS	80900209 => 4690 OS		
	Explanation: Printing on an inserted document is not allowed at this point during a sales transaction. The request is not processed.		
	User Response: Check the application program.		
076 => DOS	80900210 => 4690 OS		
	Explanation: Invalid print station selected. The request is not processed.		
	User Response: Correct the print station and issue the command again.		
077 => DOS	80900211 => 4690 OS		
	Explanation: An attempt was made to print a line on the summary journal station outside a sales transaction during training mode. The request is not processed.		
	User Response: Check the application program.		
078 => DOS	80900304 => 4690 OS		
	Explanation: An error occurred while printing on the summary journal station. The request is not processed.		
	User Response: If the error continues, service the printer.		
079 => DOS	80900212 => 4690 OS		
	Explanation: A line feed on the customer receipt station is not allowed during printing of inserted fiscal documents. The request is not processed.		
	User Response: Check the application program.		
080 => DOS	80900213 => 4690 OS		
	Explanation: A line feed on an inserted document is not allowed at this point during a sales transaction. The request is not processed.		
	User Response: Check the application program.		
081 => DOS	80900651 => 4690 OS		
	Explanation: The print typeface specified is not valid. The request is not processed.		
	User Response: Specify a valid print typeface.		
082 => DOS	80900306 => 4690 OS		
	Explanation: A request to print on the customer receipt, summary journal, or document insert station was made without the correct application-originated report mode selected. The request is not processed.		
	User Response: Check the application program sequence.		

083 => DOS	80900307 => 4690 OS
	Explanation: An unrecoverable error occurred reading the fiscal memory identification/status/setup area.
	User Response: Service the printer.
085 => DOS	80900309 => 4690 OS
	Explanation: The VAT rate for this VAT category (or department number) is not valid. The request is not processed.
	User Response: Check the application program.
086 => DOS	80900401 => 4690 OS
	Explanation: The password entered is not valid or the maximum number of attempts to enter the correct password was exceeded. The request is not processed.
	User Response: Reenter the correct password or, if the maximum number of attempts was exceeded, use the J4 (CE) jumper to restore normal operation.
	Note: Only authorized service personnel can perform functions that require a password.
087 => DOS	80900657 => 4690 OS
	Explanation: The printer command received by the fiscal printer is not valid. The request is not processed.
	User Response: Issue a valid printer command.
088 => DOS	80900311 => 4690 OS
	Explanation: The password was changed the maximum number of times; it cannot be changed again. The request is not processed.
	User Response: If the password must be changed, exchange the fiscal memory.
089 => DOS	80900312 => 4690 OS
	Explanation: The fiscal memory is full. All fiscal commands are rejected except the Fiscal Memory Dump commands.
	User Response: Service the printer.
090 => DOS	8090065A => 4690 OS
	Explanation: The requested Daily Closure was not found in the fiscal memory. The request is not processed.
	User Response: Specify a valid closure number or valid dates for the Fiscal Memory Dump command.
091 => DOS	80900314 => 4690 OS
	Explanation: An error occurred while printing the start-up message.
	User Response: Turn the power OFF and ON again. If the error continues, service the printer.
092 => DOS	80900315 => 4690 OS
	Explanation: The requested internal table register was not found in the fiscal memory. The request is not processed.
	User Response: Specify a valid table entry.

093 => DOS	80900316 => 4690 OS
	Explanation: The fiscal receipt/note counter is not valid; the valid numbers are 1 through 10. The request is not processed.
	User Response: Correct the input data.
094 => DOS	80900317 => 4690 OS
	Explanation: The specified fiscal receipt/note counter is not used. The request is not processed.
	User Response: Correct the input data.
095 => DOS	80900425 => 4690 OS
	Explanation: The address or length data is not valid. The requested address range is not valid or is wrong in the engineering dump command. The request is not processed.
	User Response: Correct the input data.
096 => DOS	80900140 => 4690 OS
	Explanation: A numeric field contains characters that are not valid. The request is not processed.
	User Response: Correct the value and issue the command again.
097 => DOS	80900410 => 4690 OS
	Explanation: Fiscal RAM is in error or does not match the fiscal memory.
	User Response: Service the printer. The J4 (CE) jumper procedure is required.
	Note: Only authorized service personnel can move the J4 jumper.
098 => DOS	80900411 => 4690 OS
	Explanation: Fiscal RAM is restored.
	User Response: Remove the J4 (CE) jumper to restore normal operation.
	Note: Only authorized service personnel can move the J4 jumper.
099 => DOS	80900318 => 4690 OS
	Explanation: The maximum 200 repair actions have been reached.
	User Response: Exchange the fiscal printer at the next failure occurrence.
100 => DOS	80900329 => 4690 OS
	Explanation: An error occurred while reading from the fiscal memory. The request is not processed.
	User Response: Service the printer.
101 => DOS	80900326 => 4690 OS
	Explanation: An unrecoverable error occurred when writing to fiscal memory. The request is not processed.
	User Response: Service the printer.

102 => DOS	80900327 => 4690 OS
	Explanation: The Fiscal Parameter Configuration (C4) command was attempted more than once with the same extension since the last J4 (CE) jumper reset.
	Explanation: The Fiscal Parameter Configuration (C4) command was attempted more than once with the same extension since the last J4 (CE) jumper reset or X'C402' was attempted with the display addresses already set. The request is not processed.
	User Response: Reset the printer using the J4 (CE) jumper procedure and initialize the printer again.
	Note: Only authorized service personnel can move the J4 jumper.
103 => DOS	80900421 => 4690 OS
	Explanation: The data is not valid. The requested data or number is out-of-range. The request is not processed.
	User Response: Correct the input data.
104 => DOS	80900360 => 4690 OS
	Explanation: The fiscal memory decimal point table is full. The request is not processed.
	User Response: If the table must be updated, exchange the fiscal memory.
105 => DOS	80900361 => 4690 OS
	Explanation: The fiscal memory currency table is full. The request is not processed.
	User Response: If the table must be updated, exchange the fiscal memory.
106 => DOS	80900362 => 4690 OS
	Explanation: An unexpected command error occurred. The request is not processed.
	User Response: If the error continues, service the fiscal printer.
107 => DOS	8090066B => 4690 OS
	Explanation: There is a print header application password matching error. The application password stored in fiscal memory does not match the password on a fiscal voucher command. The request is not processed.
	User Response: Issue the command again using the correct password.
108 => DOS	80900328 => 4690 OS
	Explanation: The POS identification table is full. The request is not processed.
	User Response: If the table must be updated, exchange the fiscal memory.
109 => DOS	80900324 => 4690 OS
	Explanation: The fiscal memory is not connected. The fiscal unit cannot restart processing.
	User Response: Service the printer. When servicing, first check to ensure the cable connections on the fiscal processor card are correct. The J4 (CE) jumper procedure is required when the fiscal memory is reconnected.
	Note: Only authorized service personnel can move the J4 jumper.

110 => DOS	80900131 => 4690 OS
	Explanation: An overflow occurred. The daily fiscal invoice total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Issue a Daily Closure command.
111 => DOS	80900132 => 4690 OS
	Explanation: An overflow occurred. The daily fiscal receipt total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Issue a Daily Closure command.
112 => DOS	80900670 => 4690 OS
	Explanation: The fiscal printer was reset.
	User Response: No action is required.
113 => DOS	80900341 => 4690 OS
	Explanation: An unrecoverable printer error occurred after two power-on resets.
	User Response: Turn the power off and then on again. If the problem persists, service the printer.
114 => DOS	80900363 => 4690 OS
	Explanation: A printer communication error occurred.
	User Response: Service the printer.
115 => DOS	80900701 => 4690 OS
	Explanation: The factor percent is allowed for Vat Category 01 only.
	User Response: Correct the Vat Category or disable the Factor Percent field.
116 => DOS	80900702 => 4690 OS
	Explanation: The payment transaction excess the maximum allowed payments. The request is not processed.
	User Response: Select any the payment type used before and then issue the command again.
117 => DOS	80900703 => 4690 OS
	Explanation: The factor percent is out of range. The request is not processed.
	User Response: Correct the factor percent and then issue the command again.
119 => DOS	80900677 => 4690 OS
	Explanation: Alphabetic fields with invalid data. The request is not processed.
	User Response: Correct the data and then issue the command again.
120 => DOS	80900678 => 4690 OS
	Explanation: A printer card time-out occurred while executing a command.
	User Response: Turn the power OFF and then ON again. If the problem persists, service the printer.

121 => DOS	80900679 => 4690 OS
	Explanation: Audit port wrap test fail.
	User Response: None. Service the printer.
122 => DOS	8090067A => 4690 OS
	Explanation: An underflow occurred. The Fixed transaction total is less than the minimum allowed value at end transaction time. The request is not processed.
	User Response: Cancel the transaction or make the total greater than the minimum allowed value.
123 => DOS	8090067B => 4690 OS
	Explanation: An overflow occurred. The Fixed transaction total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
124 => DOS	8090067C => 4690 OS
	Explanation: An overflow occurred. The Fixed daily total exceeds the maximum allowed value at end transaction time. The request is not processed.
	User Response: Make the total less than or equal to the maximum allowed value, issue an End Transaction or Cancel Transaction command, and then issue a Daily Closure command.
128 => DOS	80900320 => 4690 OS
	Explanation: Fiscal memory is not serialized. The request is not processed.
	User Response: Service the printer.
129 => DOS	80900321 => 4690 OS
	Explanation: The fiscal unit is not in fiscal mode. The request is not processed.
	User Response: Call for service to set fiscal mode.
130 => DOS	80900322 => 4690 OS
	Explanation: The secondary serial number is not set. The request is not processed.
	User Response: Service the printer.
131 => DOS	80900323 => 4690 OS
	Explanation: A problem was detected in a display or in the configuration for the point-of-sale displays. No fiscal commands can be executed. The minimum number of POS displays that must be configured is & dispnum
	User Response: Follow the maintenance manual procedures to set the configuration correctly. If problem persists, service the POS terminal.
132 => DOS	80900684 => 4690 OS
	Explanation: The category/department names are not loaded. The request is not processed.
	User Response: Follow the country-specific procedures to load the names using the Set Category/Department Name (22) command.

133 => DOS	80900364 => 4690 OS
	Explanation: The amount is zero. The request is not processed.
	User Response: The amount must be greater than zero.
134 => DOS	80900325 => 4690 OS
	Explanation: The fiscal unit detected an internal hardware error. The request is not processed.
	User Response: Run the printer test to determine the cause of the problem. Service the printer.
135 => DOS	80900220 => 4690 OS
	Explanation: The command is not valid outside of a sales period. The request is not processed.
	User Response: Issue the command when the sale period is in progress.
136 => DOS	80900221 => 4690 OS
	Explanation: A voucher-related sales transaction command was issued while a sales transaction was not in progress. OR a returned item voucher-related command was issued while a returned item voucher was not in progress. The request is not processed.
	User Response: Correct the application program sequence.
137 => DOS	80900222 => 4690 OS
	Explanation: A fiscal receipt/note-related command was issued while a fiscal receipt/note was not in progress. The request is not processed.
	User Response: Correct the application program sequence.
138 => DOS	80900223 => 4690 OS
	Explanation: A fiscal invoice-related command was issued while a fiscal invoice was not in progress. The request is not processed.
	User Response: Correct the application program sequence.
139 => DOS	80900224 => 4690 OS
	Explanation: An accompanying document-related command was issued while an accompanying document was not in progress. The request is not processed.
	User Response: Correct the application program sequence.
140 => DOS	80900225 => 4690 OS
	Explanation: A fiscal voucher-related command was issued before printing the store header. The request is not processed.
	User Response: Correct the application program sequence.
141 => DOS	80900226 => 4690 OS
	Explanation: A command was issued that is not allowed before the Total command is successfully executed. The request is not processed.
	User Response: Correct the application program sequence.
142 => DOS	80900227 => 4690 OS
	Explanation: The transaction payment procedure is not in progress. The request is not processed.
	User Response: Correct the application program sequence.

143 => DOS	80900228 => 4690 OS
	Explanation: Training mode is not selected. The request is not processed.
	User Response: Change the application program or set training mode on.
144 => DOS	80900229 => 4690 OS
	Explanation: The command was issued before the store header was set. The request is not processed.
	User Response: Correct the application program sequence to set the store headers before issuing this command.
145 => DOS	80900691 => 4690 OS
	Explanation: The command is not accepted when the J4 (CE) jumper is not active. The request is not processed.
	User Response: Activate the CE jumper and try issuing the command again.
146 => DOS	80900692 => 4690 OS
	Explanation: The Print Header command was attempted greater than three times using the wrong password. The request is not processed.
	User Response: Issue a Daily Closure command and then issue the Print Header command using the correct password.
147 => DOS	80900693 => 4690 OS
	Explanation: A voucher-related command was issued before the ordinary printing threshold was set by the Fiscal Parameter Configuration (C4) command at initialization time. The request is not processed.
	User Response: Reinitialize the printer issuing the Fiscal Parameter Configuration (X'C400') command.
148 => DOS	80900694 => 4690 OS
	Explanation: 100 Print Header commands were attempted using the wrong password. The request is not processed.
	User Response: Service the printer. Exchange the fiscal memory.
149 => DOS	80900695 => 4690 OS
	Explanation: The blank amount item range is not set by application program. The request is not processed.
	User Response: Correct the application program sequence.
150 => DOS	80900696 => 4690 OS
	Explanation: The first two digits of UTIK User Number are invalid. The request is not processed.
	User Response: Correct the UTIK User Number and try the command again.
151 => DOS	80900697 => 4690 OS
	Explanation: The UTIK User Number is invalid. The request is not processed.
	User Response: Correct the UTIK User Number and try the command again.

152 => DOS	80900698 => 4690 OS
	Explanation: The Header for Invoice in DI Full is not set by application program. The request is not processed.
	User Response: Correct the application program sequence.
153 => DOS	80900698 => 4690 OS
	Explanation: The Header for Invoice in CR and DI Narrow is not set by application program. The request is not processed.
	User Response: Correct the application program sequence.
154 => DOS	8090069A => 4690 OS
	Explanation: The taxpayer issuer condition is invalid. The request is not processed.
	User Response: Correct the taxpayer issuer condition and issue the command again.
155 => DOS	8090069B => 4690 OS
	Explanation: There is a problem with the reference database input data that prevented processing. Possible causes of error:
	• The application sent an item with a number less than or equal to the last record processed by the Write/Rewrite Entire RDB (X'7302') command. This error could have been caused by a power outage before the fiscal printer informed the application program of the completion status of a previous operation.
	• The application attempted to add an item record with item number 000000000000000 or an item number greater than or equal to 281474976710655.
	User Response: Check the application program. Either move to the next item to be written or eliminate the use of item number equal to 000000000000000 or item numbers greater than or equal to 281474976710655.
156 => DOS	8090069C => 4690 OS
	Explanation: The command sequence is not valid. This error occurs when using the reference database feature if either phase 2 of command 71 has been attempted before phase 1 has successfully been executed, or if a command that starts a sales period has been attempted while the successful execution of command 71 phase 2 is pending, or if command 71 phase 1 has been attempted twice in a row without successfully executing command 71 phase 2. The request is not processed.
	User Response: Check the application program.
157 => DOS	8090069D => 4690 OS
	Explanation: The correct operation of check printing or credit slip printing is not in progress. The request is not processed.
	User Response: Correct the application program sequence.
158 => DOS	8090069E => 4690 OS
	Explanation: The date is not set by application program. The request is not processed.
	User Response: Correct the application program sequence.

159 => DOS • 166 => DOS

159 => DOS	8090069F => 4690 OS
	Explanation: The Fiscal Printer is locked. The request is not processed.
	User Response: Reset the printer using the J4 (CE) jumper procedure and initialize the printer again.
	Note: Only authorized service personnel can move the J4 jumper.
160 => DOS	80900330 => 4690 OS
	Explanation: Fiscal memory is serialized. The request is not processed.
	User Response: No action is required.
161 => DOS	80900331 => 4690 OS
	Explanation: The fiscal unit is in fiscal mode. The request is not processed.
	User Response: No action is required.
162 => DOS	80900332 => 4690 OS
	Explanation: The fiscal memory decimal point table and the fiscal memory currency table are full. The request is not processed.
	User Response: If the tables must be updated, exchange the fiscal memory.
163 => DOS	809006A3 => 4690 OS
	Explanation: Secondary serial number is set. The request is not processed.
	User Response: No action is required.
164 => DOS	80900350 => 4690 OS
	Explanation: The power-on sequence is in progress.
	User Response: No action is required.
165 => DOS	809006A5 => 4690 OS
	Explanation: The description information contained in the Item Sale command does not match the item information in the reference database.
	User Response: Check the application program.
	Explanation: The month has not ended yet. The request is not processed.
	User Response: Check the application program. Wait until the first day of the next month to execute the Monthly Closure (12) command.
166 => DOS	809006A6 => 4690 OS
	Explanation: There is a problem with the reference database input data that prevented processing.
	 An 'add item' request was made and the item is already in the database.
	 A 'replace item' request was made and the item was not in the database.
	 A 'delete item' request was made and the item was not found in the database.
	User Response: Check the application program.
	Explanation: A Monthly Closure command is required. The request is not processed.
	User Response: Check the application program.

167 => DOS	80900230 => 4690 OS
	Explanation: The requested command cannot be issued while a sales period is in progress. The request is not processed.
	User Response: Perform a Daily Closure command and then issue the command again.
168 => DOS	80900231 => 4690 OS
	Explanation: A command not related to a sales transaction voucher was issued while a sales transaction is in progress. OR a command not related to a returned item voucher was issued while a returned item voucher was in progress. The request is not processed.
	User Response: Issue the command again after the fiscal voucher or returned item voucher is completed. If this error was encountered during the online printer diagnostic test, it indicates that the test cannot be completed because a sales transaction or a returned item voucher is in progress. Either have the salesperson end the transaction or diagnose the printer problem using the offline printer test that is invoked by pressing the keys on the printer in the correct sequence.
169 => DOS	80900232 => 4690 OS
	Explanation: A command not related to a fiscal receipt/note was issued while a fiscal receipt/note is in progress. The request is not processed.
	User Response: Issue the command again after the fiscal receipt/note is complete.
170 => DOS	80900233 => 4690 OS
	Explanation: A command not related to a fiscal invoice was issued while a fiscal invoice is in progress. The request is not processed.
	User Response: Issue the command again after the fiscal invoice is complete.
171 => DOS	80900234 => 4690 OS
	Explanation: A command not related to an accompanying document was issued while an accompanying document is in progress. The request is not processed.
	User Response: Issue the command again when the accompanying document transaction is completed.
172 => DOS	80900235 => 4690 OS
	Explanation: Only a fiscal voucher-related sales transaction command is accepted after the store header is printed. The request is not processed.
	User Response: Check the application program.
173 => DOS	80900236 => 4690 OS
	Explanation: After the Total command was issued, the command sequence is not valid. The request is not processed.
	User Response: Check the application program.
174 => DOS	80900237 => 4690 OS
	Explanation: A Payment is in progress. The request is not processed.
	User Response: After the Payment processing is complete, issue the request again.

175 => DOS • 183 => DOS

175 => DOS	80900238 => 4690 OS
	Explanation: Training mode is in progress. The request is not processed.
	User Response: Correct the application program sequence or issue a Set Training Mode Off command.
176 => DOS	80900239 => 4690 OS
	Explanation: The payments are already completed and printed, so you can't continue paying. The request is not processed.
	User Response: Continue printing lines (normal printing) or end voucher.
177 => DOS	809006B1 => 4690 OS
	Explanation: The POS Id number is invalid. The request is not processed.
	User Response: Correct the POS Id number and issue the command again.
178 => DOS	809006B2 => 4690 OS
	Explanation: Invalid C.U.I.T. or C.U.I.L. number selected. The request is not processed.
	User Response: Correct the C.U.I.T or C.U.I.L number and issue the command again.
179 => DOS	809006B3 => 4690 OS
	Explanation: Invalid taxpayer customer condition selected. The request is not processed.
	User Response: Correct the taxpayer customer condition and issue the command again.
180 => DOS	809006B4 = 4690 OS
	Explanation: Fiscal EPROM is in error. EPROM serialized but pattern not found.
	User Response: Service the printer.
181 = DOS	809006B5 = 4690 OS
	Explanation: Fiscal RAM is in error. Return to the FB command.
	User Response: Service the printer.
182 => DOS	809006B6 => 4690 OS
	Explanation: An error occurred on an End Transaction command. The request is not processed.
	User Response: Issue the End Transaction command again or issue a Cancel Transaction command. If this error was encountered during the online printer diagnostic test, it indicates that the test cannot be completed because a sales transaction is in progress. Either have the salesperson end the transaction or diagnose the printer problem using the offline printer test that is invoked by pressing the keys on the printer in the correct sequence.
183 => DOS	809006B7 => 4690 OS
	Explanation: An error occurred on a Cancel Transaction command. The request is not processed.
	User Response: Issue the Cancel command again. If this error was encountered during the online printer diagnostic test, it indicates that the test cannot be completed because a sales transaction is in progress. Either have the salesperson end the transaction or diagnose the printer problem using the offline printer test that is invoked by pressing the keys on the printer in the correct sequence.

184 => DOS	809006B8 => 4690 OS
	Explanation: The command sequence is not valid. A command was requested that is not allowed during a Application-Originated Report. The request is not processed.
	User Response: Check the application program sequence.
185 => DOS	809006B9 => 4690 OS
	Explanation: An EEPROM load error occurred on the printer logic card. The request is not processed.
	User Response: Service the printer.
186 = 4684	809006BA = 4680
	Explanation: Mismatch between RAM Fiscalization Flag and EPROM Mark. The request is not processed.
	User Response: Insert the jumper and reinitialize the printer.
	If the problem persists, service the printer.
187 => DOS	809006BB => 4690 OS
	Explanation: Block read from Fiscal Memory empty. The request is not processed.
	User Response: Check the application program.
188 => DOS	809006BC => 4690 OS
	Explanation: Invalid customer document type selected. The request is not processed.
	User Response: Correct the customer document type and issue the command again.
189 => DOS	809006BD => 4690 OS
	Explanation: A different mode of check printing or credit slip printing is already in progress so the selected mode cannot be ended. The request is not processed.
	User Response: Check the application program sequence.
190 => DOS	809006BE => 4690 OS
	Explanation: The command is not accepted before fiscal receipt/note phase 1 is completed. The request is not processed.
	User Response: Issue an End Fiscal Receipt/Note phase 1 (X'E301' or X'0F01') command.
191 => DOS	809006BF => 4690 OS
	Explanation: The command is not accepted after fiscal receipt/note phase 1 is completed. The request is not processed.
	User Response: Check the application program sequence. Issue an End Fiscal Receipt phase 2 (X'E302') command.
192 => DOS	80900524 => 4690 OS
	Explanation: The command is rejected from the printer logic card. The request is not processed.
	User Response: Check for a device driver programming error.

193 => DOS	80900527 => 4690 OS
	Explanation: A front-insert document error occurred. The request is not processed.
	User Response: Ensure the document is inserted correctly.
194 => DOS	80900521 => 4690 OS
	Explanation: A print head home error occurred. The request is not processed. (On 4680 Operating System, this error could be reported for other types of printer problems besides home errors.)
	User Response: If the problem persists, service the printer.
200 => DOS	8090070D => 4690 OS
	Explanation: A customer paper error occurred. The request is not processed.
	User Response: Ensure the paper is installed correctly. If the problem persists, service the printer.
201 => DOS	80900528 => 4690 OS
	Explanation: The front-insert document is not present. The request is not processed.
	User Response: Insert the document or if a document is already inserted, try removing and reinserting it. If the problem persists, service the printer.
202 => DOS	80900527 => 4690 OS
	Explanation: The inserted document is not ready. The request is not processed.
	User Response: Try removing the document and reinserting it. If the problem persists, service the printer.
203 => DOS	80900522 => 4690 OS
	Explanation: The printer cover is open. The request is not processed.
	User Response: Close the printer cover. If the cover is already closed, service the printer.
205 => DOS	80900526 => 4690 OS
	Explanation: A printer keybutton is pressed. The request is not processed.
	User Response: Release the pressed keybutton. If a keybutton is not pressed, service the printer.
206 => DOS	80900525 => 4690 OS
	Explanation: A journal paper error occurred. The request is not processed.
	User Response: Ensure the paper is installed correctly. If the problem persists, service the printer.
213 => DOS	80900528 => 4690 OS
	Explanation: The top-insert document is not present. The request is not processed.
	User Response: Insert the document or if a document is already inserted, try removing and reinserting it. If the problem persists, service the printer.
214 => DOS	80900527 => 4690 OS
	Explanation: A top-insert document error occurred. The request is not processed.
	User Response: Ensure that the document is inserted correctly.

225 => DOS	80900529 => 4690 OS				
	Explanation: Front-insert document is present. The request is not processed.				
	User Response: If a document should not be inserted, remove the document. If a document is not inserted, service the printer.				
226 => DOS	80900527 => 4690 OS				
	Explanation: The inserted document is ready. The request is not processed.				
	User Response: If a document should not be inserted, remove the document. If a document is not inserted, service the printer.				
237 => DOS	80900529 => 4690 OS				
	Explanation: Top-insert document is present. The request is not processed.				
	User Response: If a document should not be inserted, remove the document. If a document is not inserted, service the printer.				

Return Code Conversion Table (4690 OS to DOS)

Use Table A-1 to convert 4690 OS return codes to DOS return codes. See DOS and 4690 OS Return Code Descriptions for the DOS return codes.

ode Conversion				
4690 OS Return Code	Equivalent DOS Return Code	4690 OS Return Code	Equivalent DOS Return Code	
8090006	N/A	80900123	023	
8090007	N/A	80900124	024	
8090008	N/A	80900125	025	
8090009	N/A	80900126	026	
8090061F	031	80900127	064	
80900100	000	80900129	029	
80900101	001	80900130	030	
80900102	002	80900131	110	
80900103	003	80900132	111	
80900104	004	80900140	096	
80900105	005	80900141	033	
80900106	006	80900142	034	
80900107	007	80900143	035	
80900108	008	80900144	036	
80900109	009	80900145	037	
80900110	010	80900146	038	
80900111	011	80900150	056	
80900112	012	80900151	057	
80900113	013	80900201	065	
80900114	014	80900202	066	
80900115	015	80900203	055	
80900116	016	80900204	068	
80900117	017	80900205	069	
80900118	018	80900207	072	
80900119	019	80900208	074	
80900120	020	80900209	075	
80900121	021	80900210	076	
80900122	022	80900211	077	

TableA-1 (Page 1 of 3).4690 OS to DOS ReturnCode Conversion

TableA-1 (Page 1 of 3).4690 OS to DOS ReturnCode Conversion

TableA-1 (Page 2 of 3).4690 OS to DOS ReturnCode Conversion

Table A-1 (Page 2 of 3). 4690 OS to DOS Return Code Conversion

4690 OS Return Code	Equivalent DOS Return Code	4690 OS Return Code	Equivalent DOS Return Code
80900212	079	80900364	133
80900213	080	80900365	116
80900220	135	80900401	086
80900221	136	80900410	097
80900222	137	80900411	098
80900223	138	80900421	103
80900224	139	80900425	095
80900225	140	80900521	194
80900226	141	80900522	203
80900227	142	80900524	192
80900228	143	80900525	206
80900229	144	80900526	205
80900230	167	80900527	193
80900231	168	80900527	202
80900232	169	80900527	226
80900233	170	80900528	201
80900234	171	80900529	237
80900235	172	8090061B	027
80900236	173	8090061C	028
80900237	174	80900620	032
80900238	175	80900627	039
80900239	176	80900628	040
80900302	071	80900629	041
80900303	073	8090062A	042
80900304	078	8090062B	043
80900306	082	8090062C	044
80900307	083	8090062D	045
80900308	084	8090062E	046
80900309	085	8090062F	047
80900311	088	80900630	048
80900312	089	80900631	049
80900314	091	80900632	050
80900315	092	80900633	051
80900316	093	80900634	052
80900317	094	80900635	053
80900318	099	80900636	054
80900320	128	8090063A	058
80900321	129	8090063B	059
80900322	130	8090063C	060
80900323	131	8090063D	061
80900324	109	8090063E	062
80900325	134	8090063F	063
80900326	101	80900643	067
80900327	102	80900646	070
80900328	108	80900651	081
80900329	100	80900657	087
80900329	160	8090065A	090
	161		107
80900331		8090066B	
80900332	162	80900670	112
80900341	113	80900677	119
80900350	164	80900678	120
80900360	104	80900679	121
00000001	106	8090067A	122
80900361	105		
80900361 80900362 80900363	105 106 114	8090067B 8090067C	123 124

Table A-1 (Page 3 of 3). 4690 OS to DOS Return Code Conversion

TableA-1 (Page 3 of 3).4690 OS to DOS ReturnCode Conversion

4690 OS Return Code	Equivalent DOS Return Code	4690 OS Return Code	Equivale DOS Reti	
8090067D	125	809006E5	229	
8090067E	126	809006E6	230	
8090067F	127	809006E7	231	
80900684	132	809006E8	232	
80900691	145	809006E9	233	
80900692	146	809006EA	234	
80900693	147	809006EB	235	
80900694	148	809006EC	236	
80900695	149	809006EE	238	
80900696	150	809006EE	239	
80900697	151	809006F0	240	
80900698	152	809006F1	241	
80900699	153	809006F2	242	
8090069A	154	809006F3	243	
8090069B	155	809006F4	244	
8090069C	156	809006F5	245	
8090069D	157	809006F6	246	
8090069E	158	809006F7	247	
8090069F	159	809006F8	248	
809006A3	163	809006F9	249	
809006A5	165	809006FA	250	
809006A6	166	809006FB	251	
809006B0	176	809006FC	252	
809006B1	177	809006FD	253	
809006B2	178	809006FE	254	
809006B3	179	809006FF	255	
809006B4	180	80900701	115	
809006B5	181	80900702	116	
809006B6	182	80900703	117	
809006B7	183	80900704	118	
809006B8	184	80900708	195	
809006B9	185	80900709	196	
809006BA	186	8090070A	197	
809006BB	187	8090070B	198	
809006BC	188	8090070C	199	
809006BD	189	8090070D	200	
809006BE	190	80900711	204	
809006BF	191	80900714	207	
809006D0	208	N/A	067	
809006D1	209			
809006D2	210	Table A-2 (Page	1 of 2), 4690 OS	S to DOS Return
809006D3	211	Code Conversion for		
809006D4	212			
809006D7	215	4690 OS	Equivalent	Fiscal Unit
809006D8	216	Return Code	DOS Return	Return Code
809006D9	217		Code	Microcode
809006DA	218	80900521	194	16
809006DB	219	80900522	203	23
809006DC	220	80900524	192	1
809006DD	220	80900525	206	21
809006DE	222	80900526	205	n/a
809000DE 809006DF	223	80900527	193	20
809006E0	223	80900527	202	20
809006E3	224 227	80900527	202	24
809006E4	228	80900527	226	24
009000E4	220	00000021	220	4 7

Table A-2 (Page 2 of 2). 4690 OS to DOS Return
Code Conversion for Fiscal Unit

4690 OS Return Code	Equivalent DOS Return Code	Fiscal Unit Return Code Microcode
80900528	201	24
80900528	213	24
80900529	225	24
80900529	237	24

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