



NCR 7052 without 7150 printer.

Specifications

Processor

- 386 Sx
- 486 Slc

Memory

- 2 MB expandable to 16MB

Operating System

- MS DOS 6.2
- OS/2 1.2
- DOS 3.3 (Retail DOS)

I/O Expansion Slots

- 1 - 16 bit - ISA Slot

Integrated Features

- Plasma Display For Cashier
- CMOS Area With Battery Support
- CRT For High Resolution Mono Monitor
- Interface For 2 Cash Drawers
- Keyboard 32 Or 56 Key
- Memory Module
- Control Panel
- Keylock switch
- NCR 7150 Printer
- Magnetic Stripe Reader - (MSR)
- 4 Max, OCIA Ports for Scale/Scanners

Optional Features

- Light Pen
- Network Compatibility
 - TCP/IP
 - Ethernet
 - Netbios
 - RS-232
- CRT For Color Graphics Monitor

Power Supply

- 120/240 VAC @ 245 Watts

Diagnostics

- Level 0 Diags / Power-ON
- Level 1 Diags / User Select From ROM

Tools and Software Requirements

- Phillips screwdriver
- Compressed Air
- Vacuum Cleaner
- Portable Ohm Meter
- Wet Cards for Card Reader Cleaning

DIP Switch Settings -- SW1

Switch	Setting	Function
1	OFF*	CRT Disabled
	ON	CRT Enabled
2	OFF*	Mono Graphics
	ON	Color Graphics
3	OFF	Slow Processor Speed
	ON*	Fast Processor Speed

Jumper Settings - Processor Board

Switch	Setting	Function
W1-Strap	1 - 2	High Res Mono CRT
	2 - 3	CGA Monitor
	OFF*	2 x 20 Display Enabled

Jumper Settings - Display Board

Switch	Setting	Function
W1	OFF*	Customer Display
W2	OFF*	" "
W3	OFF*	" "
W4	OFF*	" "
W5	ON*	" "
W6	ON*	" "
W7	OFF*	" "
W8	ON*	" "
W9	ON*	" "

Jumper Settings - M11 Communication Board

Switch	Setting	Function
W1	ON*	Asynchronous @ 4800 Baud.
W2	OFF*	" "
W3	ON*	" "
W4	ON*	" "

Procedures

Replacing Operator Display Module

- Turn OFF and disconnect power source from the wall.
- Slide keyboard to the right till it stops, then raise the right side and slide further until it is released.
- Flip entire unit over to expose the base of display.
- Depress square tab on base and slide base from unit.
- Depress the tab on the rear of the display and tilt display up while pulling down on the base. They will separate but you will need to fish the cable out of the pole.
- Reverse the preceding steps to install the Display.

Procedures (Continued)

Changing CMOS Settings

- Recycle power to unit while keylock is on "X" position.
- Select an option (usually #3) from the CMOS menu that will appear after the posting or Level 0 diagnostics.
- Configuration setup is the area to change Time/Date, speaker volume, LAN setup, keyboard format, etc.
- Save options and reset power with keylock on "R".

Performing Diagnostics

- Recycle power to unit while keylock is on "X" position.
- Select an option (usually #4) from the CMOS menu that will appear after the posting or Level 0 diagnostics.
- Diagnostics is the area to test the following: Memory, Displays, Printers, Keyboard, Key Lock/Tone, Cash Drawers, Magnetic Stripe Readers, OCIA tests, and other communication test, etc.
- **Be Advised-** If you wish to run the Memory test this will destroy all the totals or figures in the registers memory.
- **Be Advised-** If you wish to run the OCIA tests you may wish to disconnect the communication cable to prevent test information being sent to the host.
- **Be Advised-** The Magnetic Stripe test may intermittently fail during diagnostics, this is OK. Run the track tests separately with a white test card.
- To Exit Diagnostics backup to Main Menu and turn key back to "R" position. If application runs you are done.
- If not, reconnect the communication cable if it was disconnected before, then, turn the Key Lock to "X" position and select "Load Program" option.

Replacing the Cash Drawer Solenoid

- Turn OFF register and remove external power cord.
- Remove the cash drawer by releasing the emergency switch underneath the cash drawer assembly.
- Remove register's back plate, then communications plug, and cash drawer plug.
- Remove the Phillips screw located on the center back, slide upper half of case forward till it stops then lift it off.
- Test Solenoid and it should read 22-26 ohms. If it is 20 ohms or less then solenoid will need to be replaced.
- **NOTE:** A bad Solenoid will blow a processor board if not replaced soon. Also tighten any ground wires since this will cause a similar problem is not grounded.
- Reverse the preceding steps to install the Display.

Replacing Customer Display Module

- Turn OFF and disconnect power source from the wall.
- Remove back plate from register.
- Push up on the post's cover plate from below unit.
- Remove the thumb screw under the cover plate.
- Post will now be loose and the display will lift out.
- Reverse the preceding steps to install the display.

Special Notices

- **Caution:** Lethal High Voltage exists in either display or power supply after the power is removed because of a DC step-up converter. Extreme caution is required.
- M11 communications card support only 8 registers each. The main computer supporting the registers can only support 40 terminal maximum.
- The max number of connected (Starlan) hubs is five.
- In RS-232 communications, each register is connected via a serial port on the main computer for a network.
- Before considering keyboard keys to be defective lift the key caps OFF or the bottom of keyboard and check for debris that may affecting the contacts or movement.
- If register is being stored for a long length of time then the RAM support switch on the power supply should be turned-OFF in order to preserve the battery life that protects the RAM in short power outages. The program will automatically reload, through the Power-on diags, when register is functioning again. This 12V RAM battery should be changed every 3 years or when it fails.
- During power-up if a solid error tone occurs this means a bad processor board / RAM
- Before a program loads it may appear to be a bad connection or communication card. A valid download will display a program-line count. If this delay symptom persists, swap the host connection to verify if the communication card on either the register or host is faulty and replace accordingly.

Field Replaceable Units

Main Components

Description	OEM Part	IBM Part
Operator 2 X 20 Display	497-0007774	22H3339
56 Key Keyboard	006-1009914	22H3340
Payless I/O Board	877-0151096	22H3343
Power Supply	497-0005026	22H3344
Power Cord	006-8600172	22H3346
Fan	007-9834670	22H3347
PCB- Front Panel ON/OFF	250-0041378	22H3349
PCB Payless Main	877-0151095	22H3350

Accessories

Description	OEM Part	IBM Part
Cash Drawer Assembly	250-0042419	22H3338
6N/ 6A Customer Display	250-0046561	22H3341
MSR Dual Track	006-1010170	22H3342
7150 Printer Cable	497-0005316	22H3345
Front Panel Cable	497-0007717	22H3348
Card-BK Panel I/O Cable	887-0150079	22H3351
Cash Drawer Latch Assembly	250-0041378	22H3353

Testing / Safety

Description	OEM Part	IBM Part
Safety Label For Power Supply	N/A	7819904
Loopback Cable-(RS232 Test)	N/A	96X4967