

FRONT

PICTURE 1

March 17, 1992

This pamphlet contains a Symptom-to-FRU Index, a parts listing and procedures for isolating problems to a FRU for the IBM Personal System/2 Models 35 SX, 35 LS, and 35 SLC.

Part Number 10G6621

Form Number S84F-9846-02

FRONT_1 Safety Information

Refer to the *Hardware Maintenance Service General Information* pamphlet for the following safety information:

- General Safety
- Electrical Safety
- Safety Inspection Guide.

Third Edition (March 1992)

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1.0 General Checkout

The POST and advanced diagnostic tests are intended to test only IBM (*) products. Non-IBM products, prototype cards, or modified options can give false errors and invalid system responses.

IMPORTANT:

- If the advanced diagnostic tests cannot be started, go to "Symptom-to-FRU Index" in topic 11.0. If that does not correct the problem, go to "Undetermined Problem" in topic 3.0.
- If more than one error code is displayed, diagnose the first error code first. The cause of the first error code can cause false error codes to be displayed.
- If an adapter or device consists of more than one FRU, an error code may be caused by any of the FRUs. Before replacing the adapter or device, remove the FRUs, one by one, to see if the symptoms change.
- If a Model 35 LS without a 3.5-inch diskette drive is used in a LAN, make sure the diagnostic program is loaded in the server by your LAN administrator.
- If you are instructed to replace the system board and that does not correct the problem, replace the bus adapter and reinstall the original system board.
- When using Customer Carry-in Repair for the Model 35 SLC, the diagnostic program can be loaded from the diskette drive by connecting one of the following:
 - 1.44MB diskette drive (FRU 85F0050)
 - 2.88MB diskette drive (FRU 61F4148)
 - Cable (FRU 79F3453).

To disable the power-on password, move the J14 jumper on the system board to the unused position.

+----+
|001|
+----+

1. Power-off the system and all external devices.
2. Check all cables and power cords.
3. Make sure there are no diskettes in the drives.
4. Power-on all external devices.
5. Power-on the system.

DID YOU RECEIVE A POST ERROR CODE?

Yes No

| |
| +----+
| |002|
| +----+
| Go to Step 014.
|

+----+
|003|
+----+

IS THE ERROR 162?

Yes No

| |
| +----+
| |004|
| +----+
| Go to Step 014.
|

+----+
|005|
+----+

IS THE DIAGNOSTIC PROGRAM LOADED FROM THE LAN?

Yes No

| |
| +----+
| |006|
| +----+
| Insert your Advanced Diagnostics Diskette. Go to Step 009.
|

+----+
|007|
+----+

- Load the diagnostic program from the server.

DID THE PROGRAM LOAD SUCCESSFULLY?

Yes No

| |
| +----+
| |008|
| +----+
| If the problem occurred during the Remote Initial Program Load (RIPL), replace the Network Adapter.
| If it did not occur during RIPL, go to "Symptom-to-FRU Index" in topic 11.0.
|

```
|
+----+
|009|
+----+
- Press Ctrl+Alt+Del and check for the following responses:
  1. One or two short beeps.
  2. IBM logo screen appears.
DID YOU RECEIVE THE RESPONSES LISTED ABOVE?
Yes No
|
|
+----+
|010|
+----+
|
| Go to "Symptom-to-FRU Index" in topic 11.0. If that does not correct
| the problem, go to "Undetermined Problem" in topic 3.0.
|
+----+
|011|
+----+
- Press Enter.
HAS THE CONFIGURATION BEEN INTENTIONALLY CHANGED?
Yes No
|
|
+----+
|012|
+----+
|
| Type N, then go to Step 020.
|
+----+
|013|
+----+
Type Y to run Automatic Configuration and verify that the error is no
longer present. If you return to this point again, go to Step 011 and
type N.
-----
+----+
|014|
+----+
IS THE DIAGNOSTIC PROGRAM LOADED FROM THE LAN?
Yes No
|
|
+----+
|015|
+----+
|
| Insert your Advanced Diagnostics Diskette. Go to Step 018.
|
+----+
|016|
+----+
- Load the diagnostic program from the server.
DID THE PROGRAM LOAD SUCCESSFULLY?
Yes No
|
|
+----+
|017|
+----+
|
| If the problem occurred during the Remote Initial Program Load
| (RIPL), replace the Network Adapter.
| If it did not occur during RIPL, go to "Symptom-to-FRU Index" in
| topic 11.0 .
|
+----+
|018|
+----+
- Press Ctrl+Alt+Del and check for the following responses:
  1. One or two short beeps.
  2. IBM logo screen appears.
DID YOU RECEIVE THE RESPONSES LISTED ABOVE?
Yes No
|
|
+----+
|019|
+----+
|
| Go to "Symptom-to-FRU Index" in topic 11.0. If that does not correct
| the problem, go to "Undetermined Problem" in topic 3.0.
|
+----+
|020|
+----+
```

- Select test system.
- Select system checkout.

Notes:

1. If the system has incorrect keyboard responses, go to "Keyboard" in topic 7.0.
2. If the printer has incorrect responses, go to "Printer" in topic 8.0.
3. If the display has problems such as jittering, rolling, shifting, or being out-of-focus, go to "Display Self-Test" in topic 5.0.

IS THE LIST OF INSTALLED DEVICES CORRECT?

Yes No

```
| |
| +---+
| |021|
| +---+
| Go to "Installed Devices List" in topic 6.0.
```

+---+

|022|

+---+

- Run the advanced diagnostic tests.

DID THE TESTS IDENTIFY A FAILURE?

Note: If the test stops and you cannot continue, replace the last device being tested.

Yes No

```
| |
| +---+
| |023|
| +---+
| You may have an intermittent problem:
|  Check for damaged cables and connectors.
|  Reseat all adapters, drives, and modules.
|  Check the system unit fan for proper operation.
|  Start an error log (the diskette that you use has to be a
| system-formatted diskette), and run the tests multiple times.
```

+---+

|024|

+---+

Follow the instructions on the display.

If that does not correct the problem, go to "Symptom-to-FRU Index" in topic 11.0.

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2.0 Hard Disk Drive Switch/Jumper Settings

Turn the drive upside down. The drive has either a switch block or a jumper block near the connector. Set the switch or jumper as shown below.

Note: No other switches or jumpers should be changed.

Subtopics

2.1 Jumper-Type Drives

2.2 40MB Switch-Type Drives

2.3 80MB Switch-Type Drives

2.1 Jumper-Type Drives

PICTURE 2

2.2 40MB Switch-Type Drives

PICTURE 3

2.3 80MB Switch-Type Drives

PICTURE 4

3.0 *Undetermined Problem*

1. Check the power supply output voltages (see "Power Supply Voltages / Fan" in topic 4.0). If the output voltages are correct, return here and go to the next step.
2. Power-off the system.
3. Remove or disconnect the following, one at a time:
 - a. Non-IBM device
 - b. External devices (modem, printer, or mouse)
 - c. Math coprocessor
 - d. Any adapter
 - e. Bus adapter
 - f. Hard-disk or diskette-drive cable.
4. Power-on the system.
5. Repeat steps 2 through 4 until you find the failing device or adapter.
6. If the problem still occurs during loading of the diagnostic program from the LAN, replace the network adapter.

If all devices and adapters have been removed and the problem still remains, replace the system board.

4.0 Power Supply Voltages / Fan

If the power-on indicator is not on, or if the power-supply fan is not running, check the power cord for proper installation and continuity.

If the problem remains, either the power supply is defective or another component is defective and is causing the power supply to shut off. To check the power supply:

1. Power-off the system and disconnect the system power cord.
2. Remove all power supply connectors from the system board and drives.
3. On the system board, connect your voltmeter to pins P2-4 and P2-6 (see "System Board Connector P2" in topic 4.2).
4. Check for the following conditions:
 - When the power switch is On, you should have continuity between the pins.
 - When the power switch is Off, you should not have continuity between the pins.

If either of these conditions differs, replace the control assembly (including the power switch).

If the power switch is working properly, remove your voltmeter from connector P2 and go to the next step.

5. At connector P2, short pin 4 to pin 6 (see "System Board Connector P2" in topic 4.2).
6. Connect the system power cord and power-on the system.
7. Check the power supply voltages using the following tables.

Subtopics

- 4.1 System Board Connector P1
- 4.2 System Board Connector P2
- 4.3 Drive Connectors 1 - 2

4.1 System Board Connector P1

PICTURE 5

Pin	Signal	V dc Min.	V dc Max.
1, 2	+5 volts	+4.80	+5.25
3, 4	Ground		

4.2 System Board Connector P2

PICTURE 6

Pin	Signal	V dc Min.	V dc Max.
1, 2	+12 volts	+11.52	+12.60
3	Power Good		
4	On/Off Signal		
5	-12 volts	-10.92	-13.2
6	Ground		
7	-5 volts	-4.75	-5.50

4.3 Drive Connectors 1 - 2

PICTURE 7

Pin	Signal	V dc Min.	V dc Max.
1	+12 volts	+11.52	+12.60
2, 3	Ground		
4	+5 volts	+4.80	+5.25

- If any of the voltages are not correct, replace the power supply.
- If all voltages are correct, the power supply is functioning properly. Another system component might be causing the power supply to shut off. Return to the procedure that sent you here and continue. (If you have completed that procedure, go to "Undetermined Problem" in topic 3.0.)

5.0 Display Self-Test

The following are possible display problems.

If the screen is rolling:

1. Replace the display assembly.
If the problem remains, go to the next step.
2. Replace the FRUs in the following order until the problem is corrected.
 - a. Video adapter (if used)
 - b. System board
 - c. Bus adapter (if video adapter is used).

If the screen is not rolling:

1. Run the following display self-test:
 - a. Power-off the system and the display.
 - b. Disconnect the display signal cable from the system unit.
 - c. Power-on the display.
 - d. Turn the contrast control to its maximum position.
 - e. Turn the brightness control to the center detent position.
2. Check for the following conditions:
 - The screen should be white or light gray, with a black margin as described below:
 - **8503, 8512, 8513, 8514:** 2-20 mm (0.08-0.79 in.) wide on one or both sides
 - **8506:** 2-50 mm (0.08-1.97 in.) wide on the top, bottom, or both
 - **8507, 8508, 8515:** 2-20 mm (0.08-0.79 in.) wide on the top, bottom, or both.
 - The screen intensity should vary when turning the contrast and brightness controls.

If the screen differs from the above, replace the display.

If the display passes the display self-test, replace the FRUs, in the following order, until the problem is corrected.

- a. Video adapter (if used)
- b. System board
- c. Bus adapter (if video adapter is used)
- d. Display.

6.0 Installed Devices List

If an adapter or device is missing from the installed devices list and you can add it to the list, do so and continue with the diagnostic tests.

If an adapter or device is missing from the installed devices list and you cannot add it to the list, you might have one of the following conditions:

- The diagnostic code for the missing device is not on your Advanced Diagnostics Diskette.
- The missing device is a 5.25-Inch External Diskette Drive Adapter, or another unrecognizable adapter.
- The missing device is defective.
- The bus adapter is defective.

If the number of drives installed in the system differs from the number shown in the installed devices list, an error can occur during the diagnostic tests. Restart the system and correct the drive information in the Set Configuration menu before running the diagnostic tests.

Warning: A customized setup configuration (other than default settings) might exist on the system you are servicing. Running Automatic Configuration may alter those settings. Note the current configuration settings (using the View Configuration option) and verify that the settings are in place when service is complete. (For more information about configuration, refer to the *Hardware Maintenance Reference* pamphlet.)

7.0 Keyboard

If a mouse or other pointing device is attached, remove it.

- If the symptom is corrected, the mouse or pointing device is defective.
- If the symptom remains, continue to the next step.

+----+

|001|

+----+

1. Power-off the system.
2. Disconnect the keyboard cable from the keyboard.
3. Power-on the system and check the keyboard cable connector for the voltages shown. All voltages are $\pm 5\%$.

PICTURE 8

ARE THE VOLTAGES CORRECT?

Yes No

|
|
|
|
|
|
|
|
|
|
|
|

|

+----+

|002|

+----+

Possible failing FRUs are:

1. Keyboard cable
2. System board.

+----+

|003|

+----+

Replace the keyboard.

8.0 Printer

1. Make sure the printer is properly connected and powered-on.
2. Run the printer self-test.

- If the printer self-test does not run correctly, the problem is in the printer. Refer to the printer service manual.
- If the printer self-test runs correctly, install a wrap plug on the parallel port and run the advanced diagnostic tests to determine which FRU failed.

If the advanced diagnostic tests do not detect a failure, replace the printer cable. If the problem still remains, go to the next step.

3. Check the following conditions:

- If the printer is attached to the parallel port on the system board, replace the system board.
- If the printer is attached to the parallel port on an adapter, replace FRUs, in the following order, until the problem is corrected.
 - a. Adapter
 - b. System board
 - c. Bus adapter.

9.0 Memory

+----+
|001|
+----+

1. Power-off the system and wait 5 seconds.
 - If your model has a diskette drive, insert the Advanced Diagnostics Diskette into the diskette drive.
 - If not, contact the LAN administrator to load the diagnostic program from the LAN.
2. Power-on the system.
3. Make a note of any POST errors you receive. (Disregard 164-Memory Size Errors.)

DID YOU RECEIVE A XXXXXX XXXX 201 POST ERROR?

Yes No

|
|
+----+
|002|
+----+

Press **F1** to continue.
- Run the memory tests. Use the RUN TESTS ONE TIME option.

DID THE MEMORY TESTS COMPLETE WITHOUT AN ERROR?

Yes No

|
|
+----+
|003|
+----+

Follow the instructions on the display

+----+
|004|
+----+

Your system memory is now functioning correctly. If you suspect an intermittent problem, start an error log using a DOS formatted diskette.

+----+
|005|
+----+

Note: Power-off the system before removing or replacing parts.

Press **F1** to continue.

- Run the memory tests. Use the RUN TESTS ONE TIME option. If you cannot run the memory test or the test does not find a problem, use the following procedure to find the problem.

1. Replace memory module kit A with a known good memory module kit of the same size.
2. If the problem remains, swap the memory module kit removed from A with memory module kit B.
3. If the problem remains, swap the memory module kit removed from B with memory module kit C.
4. If all memory module kits have been swapped and the problem remains, replace the system board.

10.0 Ethernet Network Adapter Problem

If one of the following error codes appears on the screen, follow these instructions.

- **06402-06417**
 - Replace the Ethernet Network Adapter and run diagnostics to verify the fix.
 - If the problem still remains, replace the adapter with the original one and replace the system board.

- **06445**
 - Ensure that the Ethernet Network Adapter interrupt is enabled (see the *IBM PS/2 Ethernet LAN Reference for AT Compatible Workstation* manual for more information).

- **064XX (other than the above)**

An adapter problem can exist. To verify proper operation of the adapter, do the following:

 1. Terminate the Ethernet Network Adapter using one of the following:
 - For an Attachment Unit Interface (AUI) cable connection, disconnect the AUI cable from the Ethernet Network Adapter and install the AUI wrap plug (part 85F0036).
 - For a twisted-pair cable connection, attach the network cable to an isolated concentrator with no traffic.
 2. Run the system checkout.
 - If the error remains, replace the Ethernet Network Adapter.
 - If the tests complete satisfactorily, contact the LAN administrator for further assistance (a network problem can exist).

11.0 Symptom-to-FRU Index

The Symptom-to-FRU Index lists problem symptoms and possible causes. The most likely cause is listed first. Use this index to help you decide which FRUs you should have available when servicing a system.

Notes:

1. If you are using the Advanced Diagnostics Diskette to determine what is actually failing, always begin with "General Checkout" on page 1.0.
2. Check the power supply voltages before you replace the system board. (See page 4.0.)

If the system displays an error message and gives an incorrect audio response, the most likely causes are those listed for the error message. An X in an error message can be any number.

Note: The system board on the Model 35 consists of two FRUs. If you are instructed to replace this system board, replace the system board FRU first. If that does not correct the problem, reinstall the original system board FRU, then replace the Bus Adapter FRU.

If the Problem remains, go to "Undetermined Problem" in topic 3.0.

Symptom/Error	FRU/Action
No beep during POST but system works correctly otherwise.	Control Assembly System Board
No beep during POST.	System Board Power Supply Memory Module Kits Any Adapter Bus Adapter Power Cord
One long and two short beeps during POST.	System Board
Continuous beep.	System Board
Repeating short beeps.	Keyboard (stuck key?) System Board Keyboard Cable
Changing Colors.	Display
Blank or illegible display.	See "Display Self-Test" in topic 5.0. System Board Display Power Supply
Intensity or coloration varies from left to right of characters and color bars.	Display System Board
Other display problems.	See "Display Self-Test" in topic 5.0. System Board Display Power Supply
Diskette drive in-use light remains on or does not light when drive is active.	Diskette Drive System Board Diskette Drive Cable
Power-on indicator or hard disk drive in-use light not on but system works correctly otherwise.	Control Assembly System Board
"Insert a Diskette" icon appears.	Diskette Drive System Board Diskette Cable Network Adapter
System loads BASIC or loads from hard disk.	Diskette Drive System Board Diskette Cable Network Adapter

A nonsystem disk or disk error-type message with a known-good diagnostic diskette.	Diskette Drive System Board Diskette Drive Cable
Incorrect memory size during POST.	See "Memory" in topic 9.0. System Board
110 ?????.	See "Memory" in topic 9.0. System Board
111 ?????.	See "Memory" in topic 9.0. Adapter Memory Bus Adapter System Board
Printer problems.	See "Printer" in topic 8.0.
Serial or parallel port device failure.	Device Self-Test OK? Device Cable System Board Alternate Adapter Bus Adapter
Serial or parallel port device failure (adapter port).	Device Self-Test OK? Device Cable Alternate Adapter System Board Bus Adapter
XXXX ROM Error.	Any Adapter
Some or all keys on the keyboard don't work.	Keyboard System Board Keyboard Cable
Real-Time Clock inaccurate.	Clock Module System Board
161	Run Setup. Clock Module System Board
162	Run Setup. Clock Module System Board
162 (and unable to run Advanced Diagnostics)	Diskette Drive System Board Diskette Drive Cable
163	Time and Date Set? Clock Module System Board
164	Run Setup. See "Memory" in topic 9.0. System Board
199	See "Installed Devices List" in topic 6.0.
1XX	System Board
201	See "Memory" in topic 9.0. System Board
2XX	Memory Module Package System Board
305 (The system-board nonreplaceable fuse can be blown by a defective keyboard, keyboard cable, or mouse. If you suspect one of these FRUs, replace it when you replace the system board.)	System Board Keyboard Keyboard Cable Mouse
3XX	Check keyboard connector Keyboard System Board

604 or 662	Wrong diskette drive type installed
663	Wrong media type
6XX	Diskette Drive External Drive Adapter System Board Power Supply Diskette Cable
7XX	Math Coprocessor System Board
9XX	System Board
10XX	Alt. Parallel Adapter Bus Adapter
11XX	System Board
12XX	Alt. Serial Adapter Bus Adapter
13XX	Game Control Adapter Bus Adapter
14XX	See "Printer" in topic 8.0.
15XX	SDLC Communications Adapter Bus Adapter
17XX	Hard Disk Drive System Board Hard Disk Cable Power Supply
2401, 2402 (changing colors)	Display
2401, 2402 (no changing colors)	System Board Display
2409	Display
2410	System Board
30XX	PC Network Adapter LF Translator Cable Problem? Bus Adapter
31XX	Alt. PC Network Adapter LF Translator Cable Problem? Bus Adapter
64XX	See "Ethernet Network Adapter Problem" in topic 10.0
86XX	Mouse System Board
129XX	System board
166XX	Token-Ring Network Adapter
167XX	System Board
I9990301 (Hard disk drive error)	Hard Disk Drive

Supplement Symptom-to-FRU Index:

12.0 How To Use This Parts Catalog

SIMILAR ASSEMBLIES: If two assemblies contain a majority of identical parts, they are broken down on the same list. Parts peculiar to one or the other of the assemblies are listed separately and identified by description.

AR: (As Required) indicates that the quantity is not the same for all machines.

R: (Restricted) indicates that the part has a restricted availability.

INDENTURE: The indenture is marked by a series of dots located before the parts description. The indenture indicates the relationship of a part to the next higher assembly. For example:

Indenture Relationship of Parts

(No dot) Main Assembly
(One dot) □ Detail parts of a main assembly
(One dot) □ Subassembly of the main assembly
(Two dot) □ □ Detail part of a one-dot subassembly
(Two dot) □ □ Subassembly of a one-dot subassembly

Subtopics

12.1 Example of a Parts List

12.1 Example of a Parts List

Index	System Unit	
32	Cover	72X8501
3	Front Bezel/Logo (R)	72X8502
	Miscellaneous Hardware Kit (AR)	72X8580
	<input type="checkbox"/> Knob Assembly, Hard Disk	
	Drive Support Structure	
	<input type="checkbox"/> Knob	
	<input type="checkbox"/> Washer	

13.0 System Overview

PICTURE 9

14.0 Parts

Index System Unit

1	Top Cover Assembly	79F3448	
2	Power Supply	79F3443	
3	Cover Screw (Thumb-screw)	79F3463	
4	Base Frame Assembly (R)	79F3449	
	Rear Panel	79F3477	
5	Control Assembly	79F3446	
6	□ Speaker Assembly	79F3447	
7	□ Power Switch Button	79F3460	
8	□ Bus Adapter Support	79F3452	
11	Adapter Guide	79F3461	
12	Cable Shield, Control Assembly	95F5607	
13	System Board (Model 35 SX)	92F0140	
13	System Board (Model 35 SLC)	96F7506	
	Real-Time Clock Module	8509237	
	1MB Memory Module Kit	90X8624	
	2MB Memory Module Kit	92F0104	
	4MB Memory Module Kit	92F3337	
	8MB Memory Module Kit (80ns)	64F3607	
	8MB Memory Module Kit (70ns)	64F3606	
14	Bus Adapter	79F3529	
15	Retainer Plate	79F3451	
16	3.5-inch Diskette Drive Bezel (1/3 High)		85F0093
16	5.25-inch Blank Bezel (1/3 High)	79F3450	
16	5.25-inch Diskette Drive Bezel (1/3 High)		85F0068
	5.25-inch Blank Bezel (1/2 High)	85F0091	
17	Front Cover Logo (R):		
	Model 35 SX	79F3457	
	Model 35 LS	79F3478	
	Model 35 SLC	06G9825	
18	Cover Lock	92F0003	
	Model 35 Pawl for Cover Lock	92F0003	79F3459
	Floor Stand	79F3458	
	Miscellaneous Parts Kit	79F3471	
	□ Screw (Qty 10)		
	□ Feet (Qty 4)		
	□ Adapter Slot Cover (Qty 3)		
	Power Cord (U.S.)	62X1045	

Index Hard Disk Drive

9	40MB Hard Disk Drive Assembly	64F4132	
	80MB Hard Disk Drive Assembly	64F4133	
	Hard Disk Drive Bezel	85F0091	
	Hard Disk Drive Cable	79F3454	

Index Internal Diskette Drives

10	1.44MB 3.5-inch Assembly	85F0050	
10	2.88MB 3.5-inch Assembly	64F4148	
	1.2MB 5.25-inch Drive	64F4102	
	□ Rail Kit (for 64F4102)	85F0041	
	Diskette Drive Cable	79F3453	

External Diskette Drives

	360KB Drive (4869-001)	72X6759	
	360KB Drive (4869-501)	72X6768	
	Drive Adapter	72X6757	
	Cable (for 72X6757)	85F0076	

Options and Adapters

	3278/3279 Emulation Adapter	8665792	
	Real-Time Interface Coprocessors:		
	6154 (128KB)	60X8192	
	6166 (512KB)	76X1013	
	6241 Multiport (128KB)	16F2223	
	6590 Multiport, Mod. 2 (1MB)	33F8967	
	Enhanced 5250 Emulation Adapter	30F5384	
	Ethernet Twisted-Pair Network Adapter	92F0045	
	Game Control Adapter	8529151	
	PC Network Adapter	8286171	
	PC Network Adapter II	72X8105	
	PC Network Baseband Adapter	72X8101	
	PhoneCommunicator Adapter	33F4846	
	PhoneCommunicator Cable (Black-L)	57F1261	
	PhoneCommunicator Cable (Black-S)	57F1262	
	PhoneCommunicator Cable (Beige-L)	57F1263	
	PhoneCommunicator Cable (Beige-S)	57F1264	
	Printer Cable	8529214	
	Screen Reader Adapter	33F4842	

Parts

Screen Reader Keypad	1393515
Screen Reader Keypad Cable	72X8537
Speech Viewer Adapter	15F8511
□ Test Plug (for 15F8511)	15F8512
SDLC Adapter	8286099
Communications Adapter Cable	8529274
Serial/Parallel Adapter	8286147
Serial Adapter Cable	8286170
Serial Adapter Connector	8286194
Token-Ring Adapter	16F0463
Token-Ring 16/4 Adapter with RIPL	92F9119
Token-Ring 16/4 Adapter without RIPL	93F0334
Token-Ring RIPL (Module)	25F8887

Keyboard Cable and Mouse

Keyboard Cable	72X8537
Mouse	61X8923
Mouse Ball and Pop-Off Retainer	33F8461
Mouse Ball and Twist-Off Retainer	33F8462

Enhanced Keyboards (101/102 Key)

Arabic	1391490
Belgian	1391414
Canadian French	1392011
Cyrillic	1393866
Danish	1391407
Dutch	1391511
French	1391402
German	1391403
Greek	1393285
Hebrew	1391408
Italian	1391404
Latin American Spanish	1392015
Norwegian	1391409
Portuguese	1391410
Russian/Cyrillic	1395622
Spanish	1391405
Swedish/Finish	1391411
Swiss	1391412
Swiss/French	1395881
Swiss/German	1395882
Turkish	1393286
U.K. English	1391406
U.S. English (EMEA use only)	1396790
U.S. English	1392090
Yugoslavian	1393669

Space-Saving Keyboards (84/85 Key)

Canadian French	1396046
Spanish / Latin	1396047
U.S. English	1393290
Cable Assembly, External	1393082

Host-Connected Keyboards (122 Key)

Austrian/German	1396902
Belgian	1396903
Canadian French	1397051
Cyrillic	1396916
Danish	1396904
Dutch	1396905
French	1396990
Greek	1396917
Iceland	1396919
Italian	1396908
Latin American Spanish	1397052
Norwegian	1396909
Portuguese	1396910
Spanish	1396911
Swedish / Finish	1396906
Swiss / French	1396912
Swiss / German	1396913
Turkish	1396921
U.K. English	1396914
U.S. English (EMEA use only)	1397025
U.S. English	1397050
Yugoslavian	1396920

8503 Monochrome Display (with Tilt/Swivel Stand)

110/120 V ac	68X3045
220/240 V ac (Northern Hemisphere)	68X3046
220/240 V ac (Southern Hemisphere)	72X7878
Tilt/Swivel Stand	68X3061

8504 Monochrome Display (with Tilt/Swivel Stand)

110/120 or 220/240 V ac (Universal Model)	44F9807
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8507 Monochrome Display (with Tilt/Swivel Stand)

110/120 or 220/240 V ac (Universal Model)	6247808
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8512 Color Display (without Tilt/Swivel Stand)

110/120 V ac	61X8924
220/240 V ac (Northern Hemisphere)	61X8928
220/240 V ac (Southern Hemisphere)	61X8927
Tilt/Swivel Stand	61X8925

8513 Color Display (with Tilt/Swivel Stand)

110/120 V ac	68X3088
220/240 V ac (Northern Hemisphere)	72X7870
220/240 V ac (Southern Hemisphere)	72X7877
Tilt/Swivel Stand	68X3061

8514 Color Display (without Tilt/Swivel Stand)

110/120 V ac	75X5945
220/240 V ac (Northern Hemisphere)	75X5946
220/240 V ac (Southern Hemisphere)	75X5947
Tilt/Swivel Stand	75X5907

8515 Color Display (with Tilt/Swivel Stand)

Model 001 (90/137 V ac (U.S. and Canada) with Tilt/Swivel and Packaging Set	38F3911
Model 002 (90/265 V ac, Universal Voltage) with Tilt/Swivel and Packaging Set	38F3912
Model A01 (90 V ac) with Tilt/Swivel and Packaging Set	38F3913
Shipping material:	16F0188
<input type="checkbox"/> Box	
<input type="checkbox"/> Front Cushion	
<input type="checkbox"/> Rear Cushion	
Power Cable, 1.8 (6 ft.), U.S.	38F3968
Alternative to part number 38F3968 above	6952301

8516 Color Display

Model 001	44F9759
Model 002	70F9129
Model 004	70F9132

8518 Color Display

Refer to the Model 8518 Hardware Maintenance Service for part numbers.

Power Cords

PICTURE 10

Warning: Use the power cord certified for your country.

Index Power Cords

1	Power Cord, Displays, for: Colombia, U.S., Venezuela	68X3071
2	Power Cord, System Unit, for: Colombia, U.S., Venezuela	62X1045
3	Power Cord, System Unit, for: Hong Kong, Singapore, U.K.	14F0033

