

Displaywriter System

CE Code Guide IBM 6360 Diskette Unit

(Do Not Use For Parts Ordering)

Revised May, 1981 \$241-6253-1

COMPLETE
WHEN INSTALLING
PRODUCT/SYSTEM

Install Date Model	
Serial No	

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IBM has prepared this maintenance manual for the use of IBM Customer Engineers in the installation, maintenance and repair of the specific machines indicated. IBM makes no representations that it is suitable for any other purpose.

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SAFETY PRECAUTIONS

All IBM Customer Engineers are expected to take every safety precaution possible and observe the following safety practices when servicing IBM equipment.

Mechanical Safety:

- 1. Safety glasses must be worn.
- 2. All safety devices, such as guards, shields, signs, ground wires, etc., must be restored after maintenance. When a guard or shield is removed to observe or make an adjustment, that shield must be replaced when work in the area is completed.
- 3. Watches, rings, necklaces, ID bracelets, etc., must be removed when servicing the machine.
- 4. Care must be used when working near moving parts. Keep hair away from moving parts. Avoid wearing loose clothing that might be caught in the machine. Shirt sleeves must be kept buttoned or rolled above the elbows. Ties must be tucked in the shirt or have a tie clasp approximately three inches from the end. Tie chains are not recommended.

Electrical Safety:

- 1. The equipment referenced in this manual may use high voltages. Check voltage labels!
- 2. Safety glasses must be worn when checking energized circuits.
- 3. If a circuit is disconnected for servicing or parts replacement, it must be reconnected and tested before allowing the use of the machine.
- Power should be removed from the machine for servicing whenever possible. Remember, when checking voltages, avoid contacting ground potential, such as metal floor strips, machine frame, etc.
- 5. Meter continuity checks should be used instead of voltage checks whenever possible.
- 6. Do not apply power to any part, component, or subassembly when it is not physically mounted in the machine, or its approved service position.

General Safety:

- 1. Each Customer Engineer is responsible to be certain no action on his/her part makes the product unsafe or exposes customer personnel to hazards.
- 2. Store the removed machine covers in a safe, out of the way place where no one can trip over them.
- 3. If you must leave the machine in a down condition, always install the covers and disconnect the power before leaving the customer's office.
- 4. Always place CE tool kit away from walk areas where no one can trip over it.
- Maintain safe conditions in the area of the machine while performing and after completing maintenance.
- Before starting the equipment, make sure fellow CEs and customer personnel are not in a hazardous position.
- 7. All the machine covers must be in place before the machine is returned to the customer.

Note: Refer to the Safety CEMs relating to this product(s) for further safety precautions.

TABLE OF CONTENTS

Major	Major Code F	Page
Base/Covers		.1
Diskette Drive, Type 1 Left		.4
Diskette Drive, Type 1 Right		. 4

INSTRUCTIONS FOR USING THIS GUIDE

FOR PROBLEMS THAT REQUIRED A REPAIR ACTION

FOR ALL NO-TROUBLE-FOUND CALLS

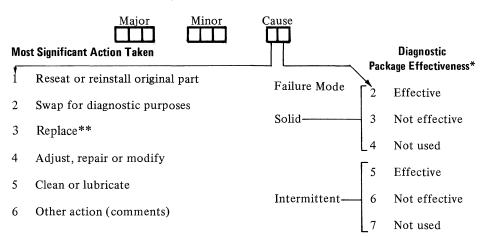
- Record the three-digit major and two-digit minor codes in the appropriate block.
- Record the two-digit cause code that best identifies the action, in the appropriate block.

- Record either major code 960 or 965.
- Record the two-digit symptom codes in place of cause code in the appropriate block.

CAUSE CODES

Use with Major Codes 000, 300, 700, 823, and 824.

Choose one digit from each column:



^{*}The Diagnostic Package includes the MAPs, MDIs, LEDs, Product Support Manual, etc.

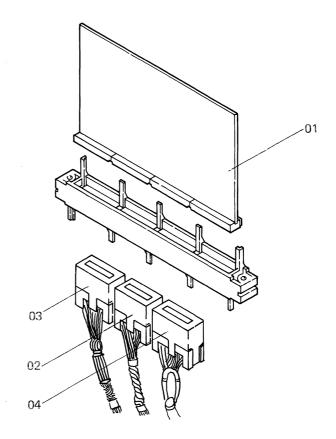
Note: Consider the MAPs and diagnostics effective if they identify the failing part or direct you to the appropriate repair action.

^{**}New defective part which failed at the time it was installed, or within 90 days thereafter, use Cause Code 30.

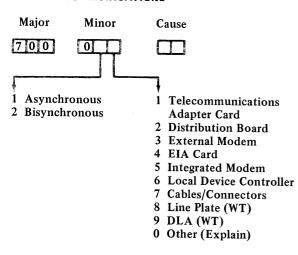
000 BASE/COVERS

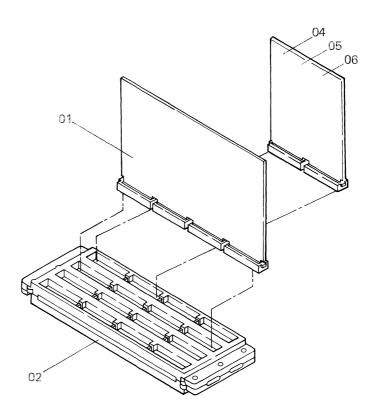
Major Minor Cause 000 0 04 03 01 Base 02 Front Cover 03 Back Cover 04 Mounting Hardware 05 CE Diagnostic Diskette 06 Customer Problem Determination Diskette 00 Other (Explain) 01 05 06

300 LOGIC



700 TELECOMMUNICATIONS





Major

Minor

Cause

8 2 X

0

01 Frame/Mounting Hardware

02 Drive Belt

03 Diskette Guide Assembly

04 File Control Card

07 Head Carriage Assembly

08 Head Load Bail Assembly

09 Head Load Solenoid Assembly

10 LED/PTX Assembly

11 AC Drive Motor

12 Stepper Motor

14 AC Motor Capacitor

16 Band/Pulley/Clamp

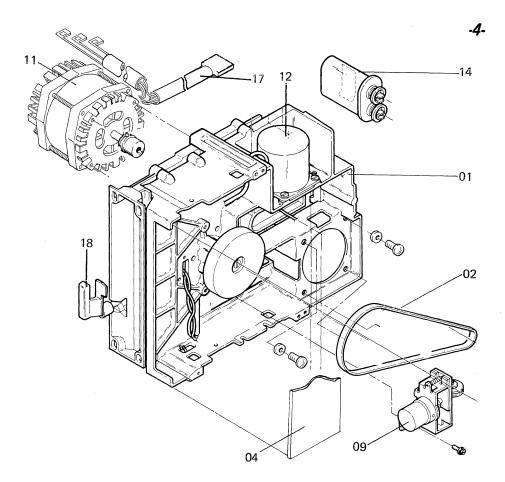
17 AC Cable

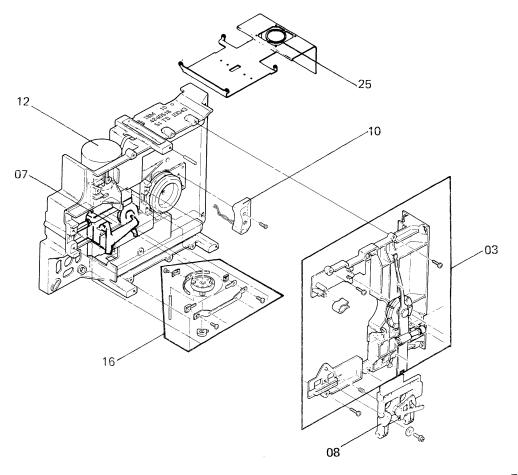
18 Diskette Handle

25 Fan Cooling

99 Diskette Drive Assembly

00 Other (Explain)





870 CUSTOMER RESPONSIBILITY

Major	Minor	Cause	
8 7 0	0		
	Sec 02 En 03 Po 04 Ha 05 Co	verator Procedure (Also e Cause/Activity Code 58) vironment wer Failure rdware Compatibility mmunications* her (Explain)	

CAUSE/ACTIVITY CODES FOR CUSTOMER RESPONSIBILITY 870 ONLY

Major	Minor	Cause		
8 7 0	0			
		 31 Problem Determination Procedures Were Incorrect Or Misleading 32 Problem Determination Procedures Were Not Used 		
*CAUSE/ACTIVITY CODES TO BE USED WITH MINOR CODE 05 ONLY				
		 47 Teleprocessing communication lines 48 Non-IBM data communications equipment (Not Lines) 51 Non-IBM machine or host CPU hardware/ software 58 Telecommunications-related operator error procedural problem. Includes operator instruction. 		
		 59 Telecommunications installation, setup or personalization on customer setup (CSU) products where such activities have been defined as customer responsibility 60 Customer program problem at remote IBM host CPU 		

960 NO TROUBLE FOUND (NTF)

Major Minor Cause

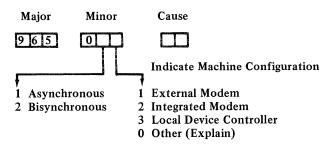
9 6 0 0 1 Logic
02 Drive
00 Other (Explain)

SYMPTOM CODES: Use as Cause Codes with Major 960 only.

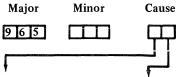
Major Minor Cause

- 71 Stops, Locks Up
- 72 Read/Write Errors
- 73 Noisy
- 74 Error Code (Comments)
- 00 Other (Explain)

965 NTF/TELECOMMUNICATIONS



SYMPTOM CODES: Use as Cause Code with Major 965 only.



- 1 Suspected IBM Hardware Problem
- 2 Suspected Telecomm. Facility Problem (Lines)
- 3 Suspected Non-IBM Telecommunication Equipment (Not Lines)
- 4 Suspected Problem Customer Lines/ Cabling
- 5 Suspected Customer Program Problem at Remote IBM Host
- 6 Suspected OEM Host/ Machine Problem (Hardware/Program)
- 7 Suspected Operator Procedure
- 9 Unable to Determine

- Missing/Garbled Information
- 2 Data Checks, Negative Response Sent
- 3 Receiving Negative Response
- 4 Improper Job Termination
- 5 Hangs/Slow
- 6 Disconnect (Timeout)
- 7 Incorrect Prompting
- 8 Error Code (Comments)
- 0 Other (Explain)



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