

Systems

**IBM 8809 Magnetic
Tape Unit Installation
Manual—Physical Planning**



Federal Communications Commission (FCC) Statement

The following warning applies to the IBM 8809 used in the U.S.A.:

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Fourth Edition (December 1982)

This is a minor revision of, and obsoletes GA32-0040-2. Changes are made periodically to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/370 Bibliography*, GC20-0001, for the editions that are applicable and current.

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Preface

This publication is for the IBM customer and for the persons who will assist in planning the installation of the IBM 8809 Magnetic Tape Unit Models 1A, 1B, 2, and 3. The 8809 Model 1A attaches to an IBM 4331 Processor, or to an IBM 8100 Information System. The 8809 Model 1B attaches to an IBM 8100 Information System. The 8809 Models 2 and 3 attach to the Models 1A or 1B. A maximum of six tape units can be in a series when the Model 1A is attached to an IBM 4331 Processor. A maximum of four tape units can be in the series when the Model 1A or 1B is attached to an IBM 8100 Information System.

Useful Publications

The following publications contain additional physical planning information:

For IBM 4331 Processor attachment:

- *IBM Input/Output Device Summary*, GA32-0039
- *IBM Input/Output Equipment Installation Manual—Physical Planning for System/360, System/370, and 4300 Processors*, GC22-7064
- *IBM 4300 Processors Installation Manual—Physical Planning*, GA24-3667
- *IBM 4300 Processors Summary and Input/Output and Data Communications Equipment Configurator*, GA33-1523
- *IBM 4331 Functional Characteristics and Processor Complex Configurator*, GA33-1526

For IBM 8100 Information System attachment:

- *IBM 8100 Information System Configurator*, GA27-2876
- *IBM 8100 Information System Site Planning and Preparation Guide for IBM 8101, IBM 8130, IBM 8140*, GA27-2884

Bill of Forms

IBM provides a Bill of Forms by which you can order one form number and receive two documents and unit templates for the 8100 physical planning and site preparation.

Bill of Forms GBOF 3983 will provide the following:

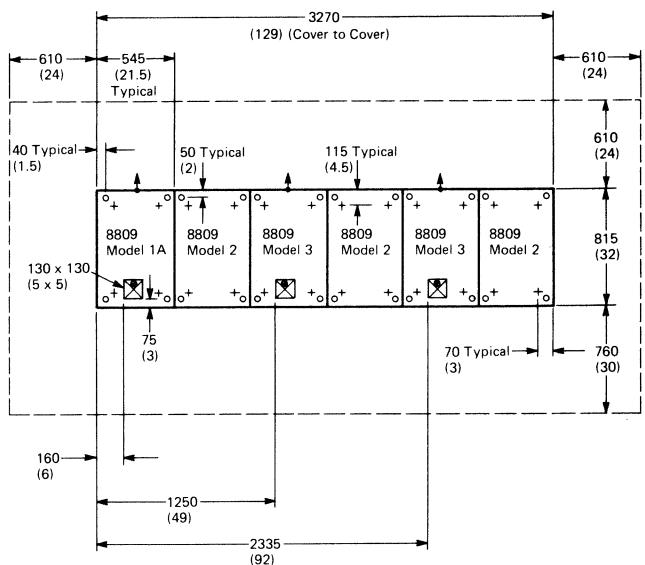
- *IBM 8100 Information System Site Planning and Preparation Guide for IBM 8101, IBM 8130, IBM 8140*, GA27-2884
- *IBM 8100 Information System Physical Planning Template (English)*, GX23-0208
- *IBM 8100 Information System Physical Planning Template (Metric)*, GX23-0214
- *IBM 8809 Magnetic Tape Unit Installation Manual—Physical Planning*, GA32-0040

8809 Magnetic Tape Unit Models 1A, 1B, 2, and 3

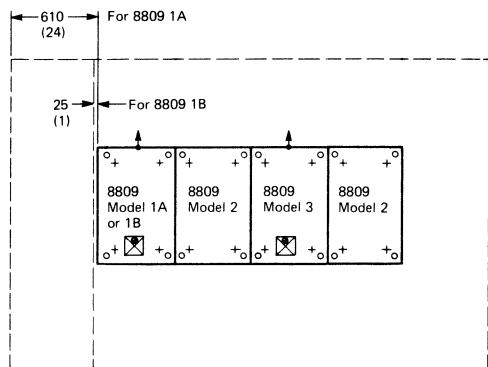
Plan Views (Metric Scale: 10 mm = 0.5 m)

English measurements are shown in parentheses.

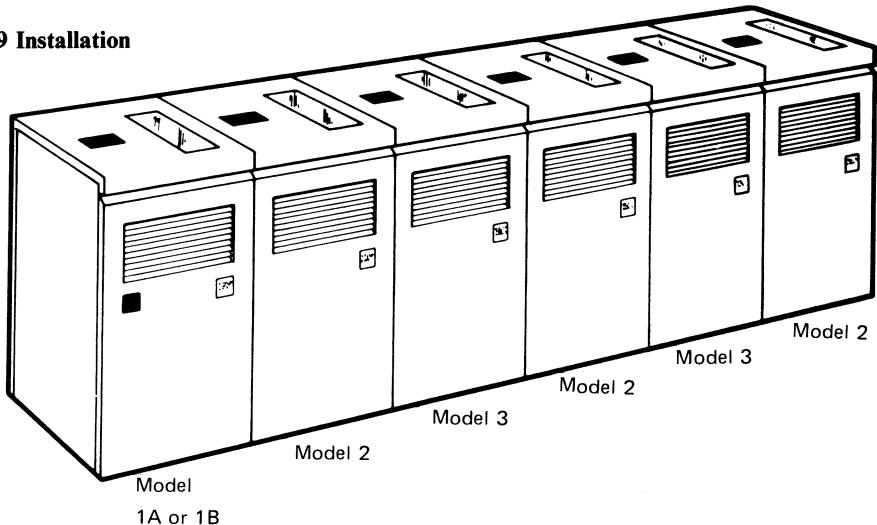
Maximum Configuration for 4331 Attachment



Maximum Configuration for 8100 Attachment



8809 Installation



Specifications

Dimensions:

	Front	Side	Height
mm (inches)	545 (21½)	815 (32)	1000 (39½)

Service Clearances:

	Front	Rear	Right*	Left*
mm (inches)	762 (30)	610 (24)	610 (24)	610 (24)

Weight:

kg (lb)	1A/1B 2 (302)	3 (215)
	137 (302)	98 (215)

Heat Output:

watts (BTU/hr)	1A/1B 2 (425)	3 (1450)
	425 (1450)	380 (1260)

Airflow:

m ³ /min (cfm)	1A/1B 2 (2.8)	3 (100)
	2.8 (100)	2.8 (100)

Power Requirements:

	1A/1B 2** kVA	3 0.66
Phases	1	1

	Non-Locking Type		Locking Waterproof Type (Specify Code 9950)	
	120v	208/240v	120v	208/240v
Plug	NEMA 5-15P	NEMA 6-15P	R&S 3720U-1	R&S 3720U-2
Receptacle	NEMA 5-15R	NEMA 6-15R	R&S 3743U-1	R&S 3743U-2
Connector	—	—	R&S 3913U-1	R&S 3913U-2

Power Cord

Style	A1
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Environment, Operating:

Temperature	16°C—38°C (60°F—100°F)
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Rel Humidity	8% to 80%
Max Wet Bulb	26°C (78°F)

Environment, Nonoperating:

Temperature	10°C—43°C (50°F—110°F)
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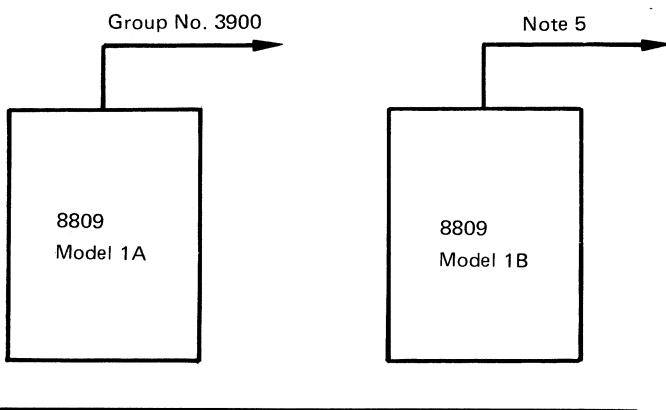
Rel Humidity	8% to 80%
Max Wet Bulb	27°C (80°F)

Notes:

* Required clearance when the tape unit is at the end of an 8809 series. The left-end clearance for a Model 1B is reduced to 25 mm (1 inch).

** Model 2 receives power from a Model 1A, 1B, or 3.

Cabling Schematic



Group No.	No. of Cables	From	To	Max Length m (ft)	Notes
3900	2	8809 1A	4331	30 (98)	1, 2, 3, 4
3900	2	8809 1A	8101	10 (33)	1, 2, 3, 4

Notes:

1. The 8809 Model 1A must be the only unit attached to the cable signal path.
2. If more than three 8809 Models 2 or 3 are attached to a Model 1A (IBM 4331 Attachment), the maximum cable length is 15 meters (49 feet).
3. The minimum cable length for any configuration is 4 meters (13 feet).
4. The cables that connect a series of 8809 Models 1A or 1B to Models 2 and 3 are routed internally through the units. These fixed-length cables are shipped with the Models 2 and 3.
5. The cables that connect the 8809 Model 1B to an IBM 8100 Information System are fixed-length. These cables are shipped with the Model 1B.

GA32-0040-3

IBM 8809 Magnetic Tape Unit Installation Manual—Physical Planning Printed in U.S.A. GA32-0040-3

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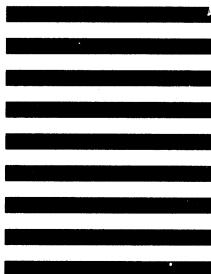
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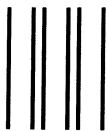
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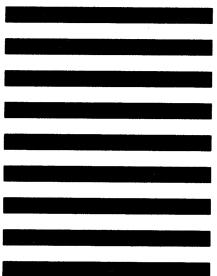
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