Offering Information 〉 Announcement Letters 〉

IBM 3180 DISPLAY STATION MODELS 1 AND 2

Contents

Brief Description of Announcement, Charges, and Availability

 Model 1 The IBM 3180 Display Station is available in two models for
use with the System/360, System/370, 303X, 308X, 4300 processors, and
8100 Information Systems and Model 2 for use with the System/36 and
System/38. The 3180 Model 1, which provides the base functions of the
3278 Models 2 through 5, provides selectable screen formats that can
display up to 3,564 alphameric characters. The 3180 Model 2, which
provides the base function of the 5251 Model 11, displays up to 1,920
characters. Each model provides a high resolution, 15-inch display
screen. A high degree of ergonomic satisfaction is provided with a
122-key, low-profile keyboard with adjustable slope and a display
screen with operator adjustable height, tilt, and rotate.

Customer Letter Section

HIGHLIGHTS
*   15-inch (nominal) display
*   Ergonomic design
    -    Display height adjustable
    -    Display tilt
    -    Display rotate

* Keyboard
  - Typewriter style
  - Data entry style
* Keyboard low profile
* Keyboard slope adjustable
* Cursor position indicator
* Adjustable audible alarm
* Security keylock
* Automatic screen dimming
* Record/playback of keystrokes

ADDITIONAL MODEL 1 HIGHLIGHTS

* 3278 Models 2 through 5 screen formats and compatible functions
* Extended highlighting
* Monocase/dual case selection
* Operator selectable screen formats
* Vertical scrolling
* Modifiable keyboard
* Local copy
* Keyboard numeric lock selectable
* Switch control unit (accessory)

ADDITIONAL MODEL 2 HIGHLIGHTS

* 5251 Model 11 compatible functions
* Multinational character set selectable
* Message line provided
* All language character sets have been expanded to provide 192
  displayable characters (including blanks)

STATEMENT OF DIRECTION

     For purpose of planning, customers should be aware that it is
IBM's intent to produce a version of the 3180 Display Station Model 1
that supports APL. Whether and when announcement of this version will
take place will be based solely on IBM's technical and business
judgment. APL support may not be available for field installation on
already existing models of the 3180.

DESCRIPTION

The ergonomic design of the 3180 provides for operator adjustable screen height, tilt, and rotate. The display screen size is 15 inches (nominal diagonal measurement) and is antiglare and smudge resistant. A typewriter style or data entry style keyboard may be selected. The 122-key keyboard provides control keys, logically oriented cursor movement keys, 24 program function or command function keys, alphameric keys, and numeric pad keys. The low-profile keyboard has three operator adjustable slope settings and is connected to the video unit via a flexible coiled cable.

An audible alarm is provided with operator adjustable volume.

In addition to the nondisplay field control, security of the 3180 Display Station is enhanced by inclusion of a security keylock as a standard feature. The security keylock key can be removed in either the "on" or "off" position.

The display screen will automatically dim if there is no keystroke activity for ten minutes.

The 3180 keying can be reduced by using the record/playback function. A series of up to 96 keystrokes can be "saved" in the 3180 via the record key. Upon command, the "saved" data can be recalled and displayed. The "saved" data will be retained when power is turned off.

ADDITIONAL MODEL 1 INFORMATION

The 3180 Model 1 operator can select one of the four screen formats compatible with the 3278 Models 2, 3, 4, and 5:

Rows	Columns	Characters
24	80	1920
32	80	2560
43	80	3440
27	132	3564

Each of the screen formats utilizes an optimized character design for screen clarity. In an explicit partitioned state, the screen formats can be changed by program control utilizing the create partition command. This function is supported only when the 3180 Model 1 is attached to a 3274 with Configuration Support D Release

63.

The 3180 Model 1 has a 7,640-character buffer, which the operator can vertically scroll through. This function is supported only when attached to a 3274 with Configuration D (Release 63).

The modifiable keyboard is standard. The keyboard contains user removable keycaps. Keyboard layouts may be changed to accommodate specific user applications by redefining the keyboard tables using the 3274 keyboard definition utility (language) diskette. Any combination of four standard and modified keyboard layouts may be defined for each controller. This support allows the user to move the location of a character on the keyboard, swap character locations, or delete characters from the keyboard. The keyboard definition utility will be available with the 3274 Control Unit Configuration Support D Release 63 only.

The operator can select dual or monocase characters from the keyboard providing the capability of displaying uppercase alphameric characters only for 3277 compatibility. The 3180 uses the 3270 field formatting capability, which permits individual fields of data on the screen to be program-defined with various attributes such as protected/unprotected, alphameric, normal/intensified, and displayable/nondisplayable. Also provided are the extended highlighting field and character attributes: underscore, reverse, image, and blink.

The operator may initiate a local display-to-printer copy function (i.e., without host intervention) from the keyboard of a 3180 Model 1. When the 3180 is attached to 3274 Control Unit or 4300 processor (4321, 4331, or 4361) Display Printer Adapter, the printer designation is controlled by operator use of the IDENT key and by: (a) a printer authorization matrix that is loaded into the 3274 Control Unit through a user-written host application program or (b) a customer-definable matrix loaded from the system diskette at IML time.

When the 3180 Model 1 is attached to a 3276 Control Unit Display Station, the printer designation is controlled by operator

use of the IDENT key and by a configuration default matrix. This matrix is determined by the relative positions of devices attached to the 3276. (The host can perform a "copy" in a manner compatible with 3271/3272 support.)

An optional (accessory) two-way switch on the 3180 Model 1 allows the user to switch from one controller to another.

ADDITIONAL MODEL 2 INFORMATION

The 3180 Model 2 can be integrated into 5250 Information Display System networks on a System/36, a System/38, or a 5294 Remote Control Unit.

The 3180 Model 2 provides all of the base 5251 Model 11 functions. When supported by the System/36, it also provides a separate message line for error or help messages between the last data line and the status line. Therefore, these messages do not need to be displayed in the data area of the screen.

The 3180 Model 2 is supported by the System/36 and System/38 as a 1920-character display (24 lines of 80 character positions each), and is fully program compatible with 1,920-character 5250 family displays.

The cursor location indicator (row/column) is user selectable and is provided in the status line.

Multinational character set is provided and is operator selectable.

A unique component of the 3180 Model 2 is the cable attachment element. This element provides easy signal cable attachment and a convenient method of disconnecting a 3180 without disrupting the host or other workstations on the same twinaxial cable.

PUBLICATIONS

*   IBM 3180 Model 1 Display Station Introduction and Preinstallation
    Planning Manual (GA21-9465)
*   IBM 3180 Model 2 Display Station Introduction and Preinstallation
    Planning Manual (GA21-9466)
*   IBM 3180 Model 1 User's Guide (GA21-9468) (shipped with the
    product)

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*    IBM 3180 Model 2 User's Guide (GA21-9469) (shipped with the
     product)
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SCHEDULE

First customer shipments of spare workstation elements (display, keyboard, logic, cable attachment module, and power cord) will be made as available.

TECHNICAL INFORMATION

SPECIFIED OPERATING ENVIRONMENT

PROGRAMMING SUPPORT: The 3180 Model 1 is supported by DOS/VSE, MVS/370, MVS/SP, MVS/XA, VM/SP, VM/SP HPO, and SSX/VSE for System/370, 303X, 308X, and 43XX systems. It is supported by DPPX/SP and DPCX for 8100 systems. The 3180 Model 1 can be added to existing 3278 configurations with no changes required in existing programs written for the 3278 Models 2, 3, 4, or 5 with equivalent function.

The 3180 Model 2 will be supported by the System/36 SSP Release 2 and by the System/38 in September 1984.

SECURITY, AUDITABILITY, AND CONTROL

Data security features provided by the 3180 are nondisplay field control (specified in the attribute byte) and the security keylock. (For more information on data security controls, see "Data Security Controls and Procedures," G320-5649.)

User management is responsible for evaluation, selection, and implementation of security features for administrative procedures and for appropriate controls in application systems.

If sensitive data is sent over external communication facilities, user management may wish to pursue the application of cryptography.

PLANNING INFORMATION

	Width	Depth	Height
Video/Logic Elements	414mm (16.3 inches)	359mm (14.1 inches)	369mm (1) (14.5 inches)
Keyboard Element	560mm (22 inches)	230mm (9 inches)	62mm (2) (2.4 inches)

(1) Minimum height -- Add approximately 125mm (5 inches) for maximum
    elevated height

(2) At minimum slope adjustment

Weight:

Display/Logic Elements   17.4 Kg (38.6 pounds)

Keyboard Element   4.3 Kg (9.4 pounds)

See "IBM 3180 Introduction and Preinstallation Planning" (GA21-9465
for Model 1 or GA21-9466 for Model 2) for additional physical
planning details.

CUSTOMER RESPONSIBILITY: The 3180 Display Station is designated as a
customer set-up (CSU) machine. The customer is also responsible for
performing the Customer Problem Analysis and Resolution (CPAR)
procedures before calling IBM for service. A copy of the 3180 User's
Guide, which contains detailed CSU and CPAR instructions, is shipped
with each machine.

        The customer is responsible for all modifications made to the
3180 keyboard. The customer should remove all special keys that may
be installed on the keyboard prior to submitting the keyboard for
exchange or repair. Only keyboards with standard key layouts will be
available for exchange maintenance.

PREREQUISITES: For Model 1, one of the following control unit
attachments:

*   3274 with available Category A terminal port.

*   3276 with available port or added feature #3225, feature #3256,
     or feature #3257. (The 3180 Model 1 is not supported on a 3276
     with APL/Text Control feature #1067.) The 3180 Model 1 is only
     available on the 3276 when emulating a 3278 Model 2, 3, or 4.

*   4321 with standard Display/Printer Adapter*.

*   4331 with standard Display/Printer Adapter or Display/Printer
     Adapter Expansion #2001 on a 4331 Model Group 1 or 2*.

*   4361 with standard Display/Printer Adapter*.

        The 3274 Configuration Support D (Release 63) is needed for
vertical scrolling, modifiable keyboard, cursor position indicator,
or program initiated screen format size change functions.

          For Model 2, one of the following control unit attachments:

*   5360 Processor

*   5381 Processor

*   5294 Remote Control Unit

CHARGES, TERMS, AND CONDITIONS

TERMS AND CONDITIONS

MAINTENANCE OPTIONS: Each model of the 3180 consists of five
workstation elements.

*   Display element

*   Logic element

*   Keyboard element

*   Cable attachment module

*   Power cord

     The customer is responsible to trace a machine problem to the
failing workstation element using Customer Problem Analysis and
Resolution procedures provided. Four service agreement options, in
addition to time and material, are available for repair/exchange of
failing units.

IBM ON-SITE EXCHANGE (#9830): To use this service, a customer calls a
toll-free number (800-428-2569). An IBM representative brings a
replacement element to the customer site and installs and tests the
replacement element. This service is provided for an annual
maintenance charge.

CUSTOMER ON-SITE EXCHANGE (#9824): To use this service, a customer
calls the toll-free number. IBM arranges for the delivery of a
replacement element to the customer site (workstation location,
reception area, dock, etc., as specified by the customer) using
various delivery methods. The customer is responsible for installing
and testing the replacement element using the customer set-up
procedures. The customer sends back the defective element to IBM as
instructed by IBM. The delivery transportation charge to/from the
customer site is paid by IBM. Customer On-Site Exchange service is
provided for an annual maintenance charge.

CUSTOMER CARRY-IN EXCHANGE (#9816): To use this service, a customer

calls the toll-free number. IBM provides a replacement element on an exchange basis. The customer is responsible for delivering the failing element to/from a service/exchange center. Customer Carry-In Exchange is provided for an annual maintenance charge.

CUSTOMER CARRY-IN/REPAIR (#9821): To use this service, a customer calls the toll-free number. The customer then transports the failing workstation element to an IBM service/exchange center (S/EC). IBM ships the failing element to an IBM repair center where it is repaired and returned to the S/EC for customer pickup. The customer has the option of shipping the failing workstation element directly to an IBM repair center. Costs and arrangements are the responsibility of the customer. IBM will repair the element and ship it back to the customer prepaid. Customer Carry-In/Repair is provided for an annual maintenance charge.

TIME AND MATERIAL: If desired, IBM will repair defective 3180 elements not covered by warranty or a maintenance agreement on a time and material basis at an IBM repair center or through a service/exchange center.

ON-SITE ASSISTANCE: If a customer desires on-site assistance to perform Customer Problem Analysis and Resolution (CPAR), the customer calls the toll-free number. IBM will assist the customer on-site in performing CPAR procedures using the same documentation that is available to the customer. All On-Site Assistance is provided on a per-call basis at the applicable hourly rates and minimums.

WARRANTY: IBM warranty service is provided for the 3180 using the Customer On-Site Exchange service for the first three months after the date of initial installation without additional charge.

WARRANTY OPTION (#9799): The Warranty Option may be selected anytime before the warranty period expires. The Warranty Option, available for an additional charge, provides IBM On-Site Exchange during warranty and continues for nine months from warranty expiration date. The customer can select IBM On-Site Exchange as a way of providing a more convenient service offering during the warranty period. The Warranty Option at expiration is converted to IBM On-Site Exchange

for an annual charge under the IBM Maintenance Agreement.

TESTING ALLOWANCE: None.

EDUCATIONAL ALLOWANCE: 15% to qualifying institutions. Eligible customers may elect either the educational allowance or the VPA allowance but not both.

VOLUME PROCUREMENT: The 3180 Display Station is available at attractive rates for volume orders. For further information regarding volume orders, contact your IBM marketing representative.: Standard models (110 and 210) are available for order entry convenience. The standard model consists of the appropriate display element, logic element, typewriter style keyboard, cable attachment element, and a 9.8-foot long power cord. The maintenance option, if known, may be specified on this standard model. No other specifiable option codes or specifiable accessory codes may be used in conjunction with these standard models. If other options are desired or if accessories are to be shipped with the machine, standard order entry methods must be used.

      NAD complementary marketing users may order the 3180 through NDD Direct Response Operations (toll-free, 800-426-2468).

CHARGES

Machine Type	Model/ Feature	Description	Purchase	Annual Maintenance
3180	100	Display Station	$2295.00	
	110	Display Station	2295.00	
	#3025	Clear Lens Caps and Inserts		
	#3034	Typewriter-Style Keycaps		
	#9181	Switch Control Unit	168.00	
	#9821	Customer Carry-In Repair		$ 87.00
	#9816	Customer Carry-In Exchange		96.00
	#9824	Customer On-Site Exchange		102.00
	#9830	IBM On-Site Exchange		135.00
	#9799	Warranty Option		111.00

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                200     Display Station      2195.00

                210     Display Station      2195.00

              #9821     Customer Carry-In Repair           69.00

              #9816     Customer Carry-In Exchange         75.00

              #9824     Customer On-Site Exchange          84.00

              #9830     IBM On-Site Exchange              105.00

              #9799     Warranty Option                    84.00
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Feature/ PN	Description	Purchase
905193	Fld Package Material for Display Element	$ 9.00
905194	Fld Package Material for Logic Element	5.25
7342558	Fld Package Material for Keyboard Element	13.25
1351710	Blank Keycaps -- Light (60 Caps plus Removal Tool)	25.00
1351728	Blank Keycaps -- Dark (60 Caps plus Removal Tool)	25.00
6341707	Clear Lens Keycaps (60 Caps plus Inserts + Tool)	50.00
1351742	87-Key Typewriter Keycaps (2 Sets)	30.00
1351717	Removal Tool (6)	11.00
2446941	Cable Attachment (Coaxial)	25.00
2446942	Cable Attachment (Twinaxial)	65.00
2684310	Power Cord -- 9.8 Ft	10.00
2684864	Power Cord -- 6 Ft	10.00
6952299	Power Cord -- 14 Ft	10.00
2446446	Switch Control Unit	168.00
2446813	Display Element	950.00
2446972	Logic Element Model 1	1015.00
2446964	Logic Element Model 2	875.00
6110345	Keyboard Element (DP)	295.00
6110346	Keyboard Element (DE)	295.00

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6110347    Keyboard Element (DP)                    295.00
6110348    Keyboard Element (DE)                    295.00
                                    Maintenance Charges
                            A        B        C        D        E
    Model AAS      Purch  (#9830)  (#9824)  (#9816)  (#9821)  (#9799)
3180 1    1X0    $2295    $135      $102     $96      $87      $111
3180 2    2X0     2195     105       84       75       69       84
3180 Display Element  950
3180 Keyboard         295
3180 Logic Element
       Model 100    1015
3180 Logic Element
       Model 200     875
3180 Cable Attachment
       Model 100      25
3180 Cable Attachment
       Model 200      65
3180 Power Cord       10
```

A = IBM On-Site Exchange, annual charge (#9830)

B = Customer On-Site Exchange, annual charge (#9824)

C = Customer Carry-In Exchange, annual charge (#9816)

D = Customer Carry-In Repair, annual charge (#9821)

E = Warranty Option, annual charge (1st Year)

Spare display element, logic element, keyboard, cable attachment, and power cord of the 3180 Display Station can be ordered as follows:

```
To Fit      Work Station
Model       Element                          Number
1/2         Display                          2446813
1/2         Power Cord, 9.8 Ft               2684310
1/2         Power Cord, 6 Ft                 2684864
1/2         Power Cord, 14 Ft               6952299
1           Logic                            2446972
2           Logic                            2446964
```

```
1          Keyboard (DP)                    6110345
1          Keyboard (DE)                    6110346
2          Keyboard (DP)                    6110347
2          Keyboard (DE)                    6110348
1          Cable Attachment (Coaxial)       2446941
2          Cable Attachment (Twinaxial)     2446942
        Note: Display element does not include a power cord or cable
attachment module.
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