

X1215/16 (ABOVE SERIAL NUMBER 2000)

Cartridge Disk Drive Unit
Vol.II: Operation



**Data
Systems**

1.1 GENERAL

The controls on the front panel are fail safe, and safety locks are present for protection of personnel and the unit.

The mechanical and electrical parts are contained inside the unit and are not be accessed by the operator.

The functions of the operator are the control of the unit by means of push buttons/indicators on the Operators' panel, and cartridge handling.

The Operators' panel (figure 2-1) comprises the following push button/indicators:

- a) Power - indicator.
- b) Start/Stop - push button and indicator.
- c) Cartridge Exchange - indicator.
- d) Fault-indicator.
- e) Unit Ready-indicator.

The disc unit can be connected or disconnected with the mains supply by means of a power switch on the rear of the disc unit.

1.2 BUTTON AND INDICATOR FUNCTIONS

The following push buttons/indicators are present on the Operators' panel at the front of the unit:

Power	Indicator	When the indicator is lit it means that the mains supply is connected to the disc unit. The disc power supplies are energised.
Start/Stop	Push button/ indicator (momentary switch)	By pressing the Start/Stop button after the unit is activated (power-on), the unit can be placed in one of two modes. <u>Start mode:</u> Cartridge Exchange lamp off, Start/Stop indicator lamp is lit. Disc drive motor starts rotating. The cleaning cycle starts. <u>Stop mode:</u> Start/Stop indicator lamp is off. The disc drive motor stops rotating; finally the cartridge exchange lamp is lit.
Cartridge Exchange	Indicator	This indicator is lit if the cartridge can be replaced or installed.
Fault	Indicator	This indicator is lit if there is an unsafe condition. When the indicator is lit, it can be extinguished by stopping and restarting the disc unit.
Ready	Indicator	This indicator is lit if the unit is ready to operate. (Heads are loaded).

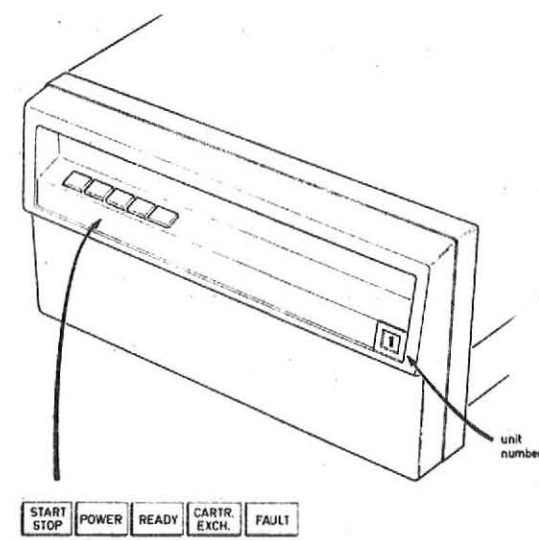


Fig. 2-1 OPERATOR PANEL

2.1 CARTRIDGE HANDLING AND STORAGE

It is important that the disc cartridge be properly handled and stored so that the recorded data are maintained. A damaged or contaminated cartridge can impair or prevent recovery of data and can result in damage to the disc drive.

CAUTION

DO NOT ATTEMPT TO INSTALL OR USE A
CARTRIDGE WHICH IS SUSPECTED OF CON-
TAMINATION OR DAMAGE.

A disc drive which has been damaged or contaminated due to use of a defective cartridge should not be operated with other cartridges until the disc drive has been inspected and/or reconditioned by qualified service personnel.

The following methods will ensure maximum protection of disc cartridges.

- 1) Cartridges should have the bottom cover in place at all times when the cartridge is not inserted in a disc drive. Do not allow the bottom cover to accumulate dirt or other debris.
- 2) Cartridges can be stored either horizontally or vertically.

CAUTION

DO NOT PLACE CARTRIDGES IN A STACK
CONTAINING MORE THAN 5 CARTRIDGES.

- 3) Avoid exposure of the cartridge to any magnetizing force.
- 4) Do not store the cartridge in direct sunlight. Temperatures outside the range of 33°F (0.6°C) to 140°F (60°C) should be avoided for non-operational storage.
- 5) If a cartridge is dropped, it should be inspected by a qualified service representative before it is used. Internal, as well as external, damage to the cartridge can result when a cartridge is dropped.
- 6) Cartridges should be labeled only in the handle recess area.
Use the dustcover when no cartridge is installed.

2.2 LOADING (figures 2-2, 2-3 and 2-4)

To ensure proper operation and data reliability it is necessary that disk cartridges be temperature stabilized at the same temperature as the disk drive. Disk cartridges should stabilize at the disk drive ambient temperature for 2 HOURS.

It is important to note that optimum data reliability can only be obtained when the protective dust cover is installed on the disk drive, when no cartridge is installed.

- a) Wait until the cartridge exchange lamp is lit.
- b) Pull the disk drive out of the rack to the first stop position.*
- c) Open up the two clamps.
- d) Remove the dust cover.
- e) Push the de-coupler in the handle of the cartridge to the side and by lifting the handle, the bottom cover can be removed.

Note: Exercise extreme care when inserting the cartridge so as not to damage the cartridge and/or the disc drive.

- f) Insert the cartridge into the correct position and fold the handle into its recess.

Note: Correct positioning of the cartridge has been obtained, when the cartridge cannot be rotated or tilted.

- g) Place the bottom cover, inverted, on top of the cartridge.
- h) Close the two clamps.
- i) Push the disc drive back into the rack.*

* Not by the stand alone model.

2.3 UNLOADING (figure 2-5, 2-6 and 2-7)

- a) Stop the cartridge disc drive by pressing the Start/Stop button (light goes off).
- b) Wait until the Cartridge Exchange light is on.
- c) Pull the disc drive out of the rack to the first stop position.*
- d) Open up the clamps.
- e) Remove the bottom cover.
- f) Push the de-coupler in the handle of the cartridge to the side, and by lifting the handle, the cartridge is removed from the holder.
- g) Insert the cartridge into its bottom cover and fold the handle back into its recess.
- h) Place the dust cover
- i) Close the two clamps.

* No by the stand alone model.

Note: If the unit is not used for some time Start/Stop two or three times to properly clean the disc surfaces, without loading the heads.

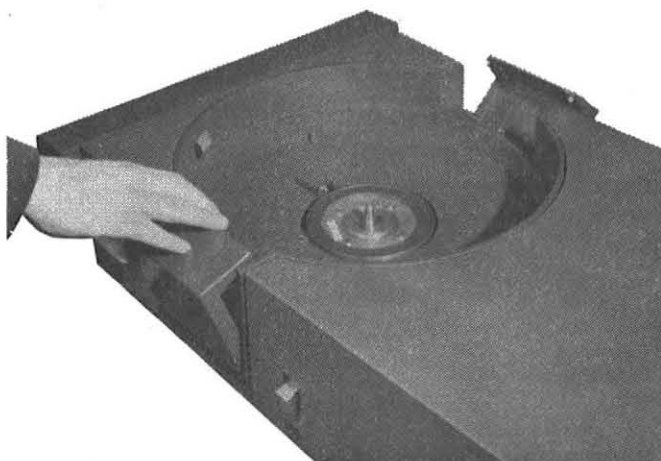


Fig. 2-2

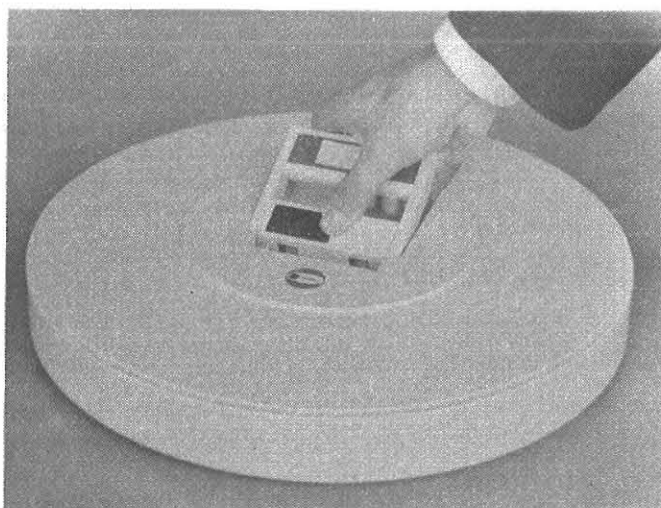


Fig. 2-3

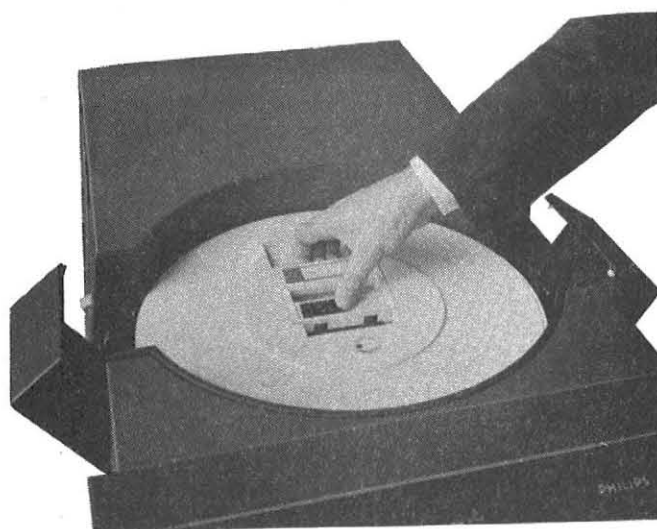


Fig. 2-4

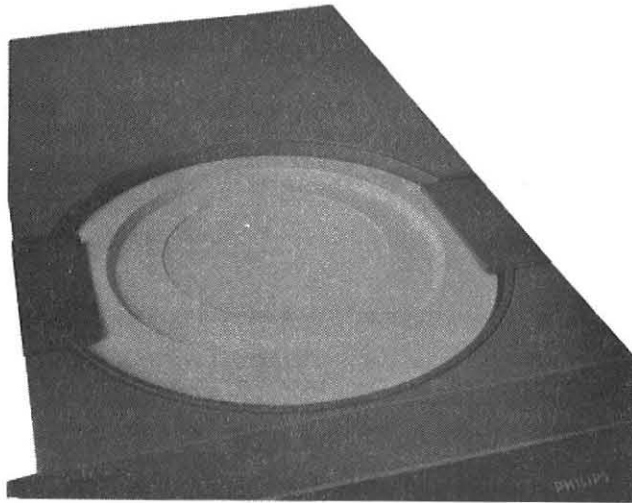


Fig. 2-5

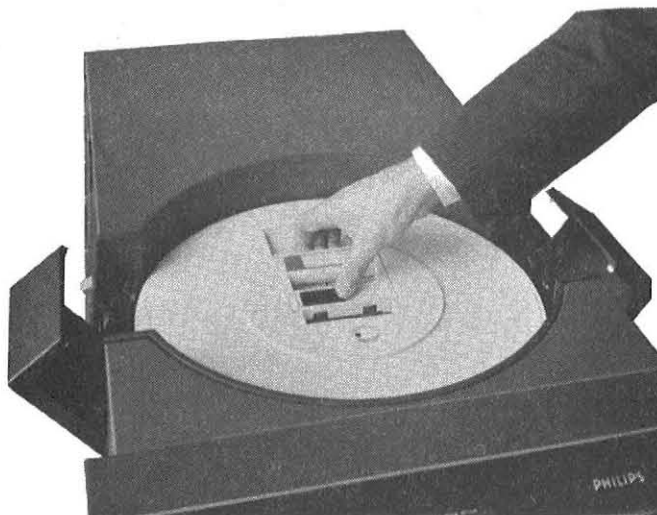


Fig. 2-6

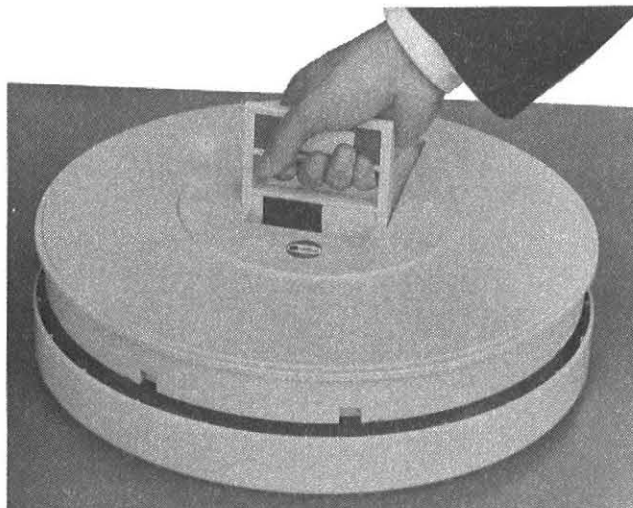


Fig. 2-7

The handling of the disc drive requires a starting and a stopping procedure.

3.1 STARTING PROCEDURE

- a) Switch on the power at the rear of the disc unit. The power and Cartridge Exchange indicators are lit other 30 seconds.
- b) Both clamps can be opened and the cartridge inserted.
- c) Press the Start/Stop button on the Operators' panel. The Start/Stop indicator becomes lit.
- d) Wait until the Unit Ready indicator is lit.
- e) The unit is ready to accept signals from the Control Unit.

3.2 STOPPING PROCEDURE

- a) Press the Start/Stop button on the Operators' panel. The Start/Stop indicator will be extinguished.
- b) Wait until the Cartridge Exchange lamp becomes lit.
- c) If it is necessary to change the cartridge, see section 2.2 of this volume then follow the starting procedure, section 3.1 (c) onward in this volume.
- d) If the unit is required to be switched off, this can be done by means of the switch on the rear of the disc unit. The associated light will be extinguished.