

## CONTROLS and INDICATORS

The drive unit is under the complete control of the host data processing system. However, operating controls and indicators are provided to manually power on the drive unit, to indicate its status, and to power off the drive unit.

Controls and indicators are located at the upper right front (when facing the unit) in a switch panel assembly (see figure 1-3). The switch panel assembly consists of a POWER ON switch, READY/BUSY indicator, and SELECT LOCK indicator.

### Power On Switch and Indicator

#### ON

Ac power is applied to the drive unit electronics and the spindle motor(s). The POWER ON lamp is illuminated.

#### OFF

No power is applied to the drive(s); however, the drive unit clean air blower continues to be energized. The POWER ON lamp is not illuminated.

### Ready/Busy Indicator

#### READY

The READY indicator flashing, illuminated, or extinguished indicates operational status of the drive unit.

#### FLASHING

Heads are loaded on the disk but the drive unit is not ready to be controlled at the interface; it is not within the thermal expansion compensation range.

If the SELECT LOCK indicator is also flashing, the heads are loaded and the drive unit is incapable of retracting the heads.

#### ILLUMINATED

Heads are loaded; the drive unit is ready to be controlled at the interface.

#### EXTINGUISHED

Heads are unloaded; the drive unit is not ready.

## BUSY

A seek operation has been performed within the last one second of time; each seek causes the lamp to be illuminated for one second.

### Select Lock Indicator

## SELECT LOCK

SELECT LOCK flashing indicates the drive unit has failed because of power drop-outs, sequencing errors, or loss of essential signals. Each drive cycles into a safe condition with the heads unloaded. An error on either drive causes both drives to cycle down.

### Operator Duties

The B 9493 is a fixed disk drive unit with the operator having access only to the switch control panel.

### Online Procedure

To prepare the drive unit for online operation, proceed as follows:

a. Press the POWER ON switch. The POWER ON lamp is illuminated and the BUSY lamp flashes momentarily. The drive unit immediately begins to sequence to the operational condition.

#### CAUTION

Do not remove power if the SELECT LOCK lamp is illuminated and the READY lamp is flashing.

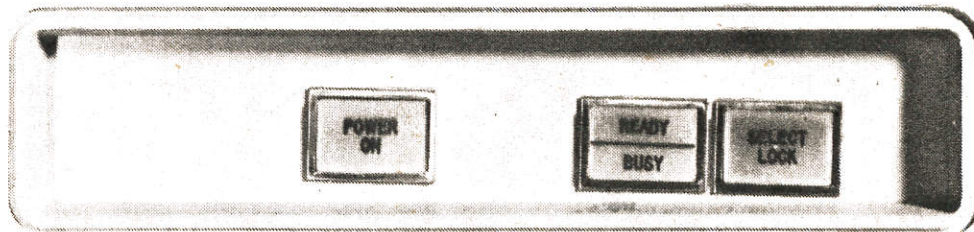
b. When the following conditions are met, the READY lamp is illuminated.

1. Disk(s) are up-to-speed
2. Heads are loaded and positioned at cylinder zero

c. If the READY lamp fails to illuminate after 20 seconds, the drive has discovered an error. If the error was of a transient nature, the drive can be reset by removing the ac power (for at least two seconds) and then applying power again. If an attempt to restore the drive unit fails, maintenance is required.

### Off-Line Procedure

To put the drive unit off-line, press the POWER ON switch. When all lamps are extinguished, the drive is off-line.



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Figure 1-3. Switch Panel Assembly

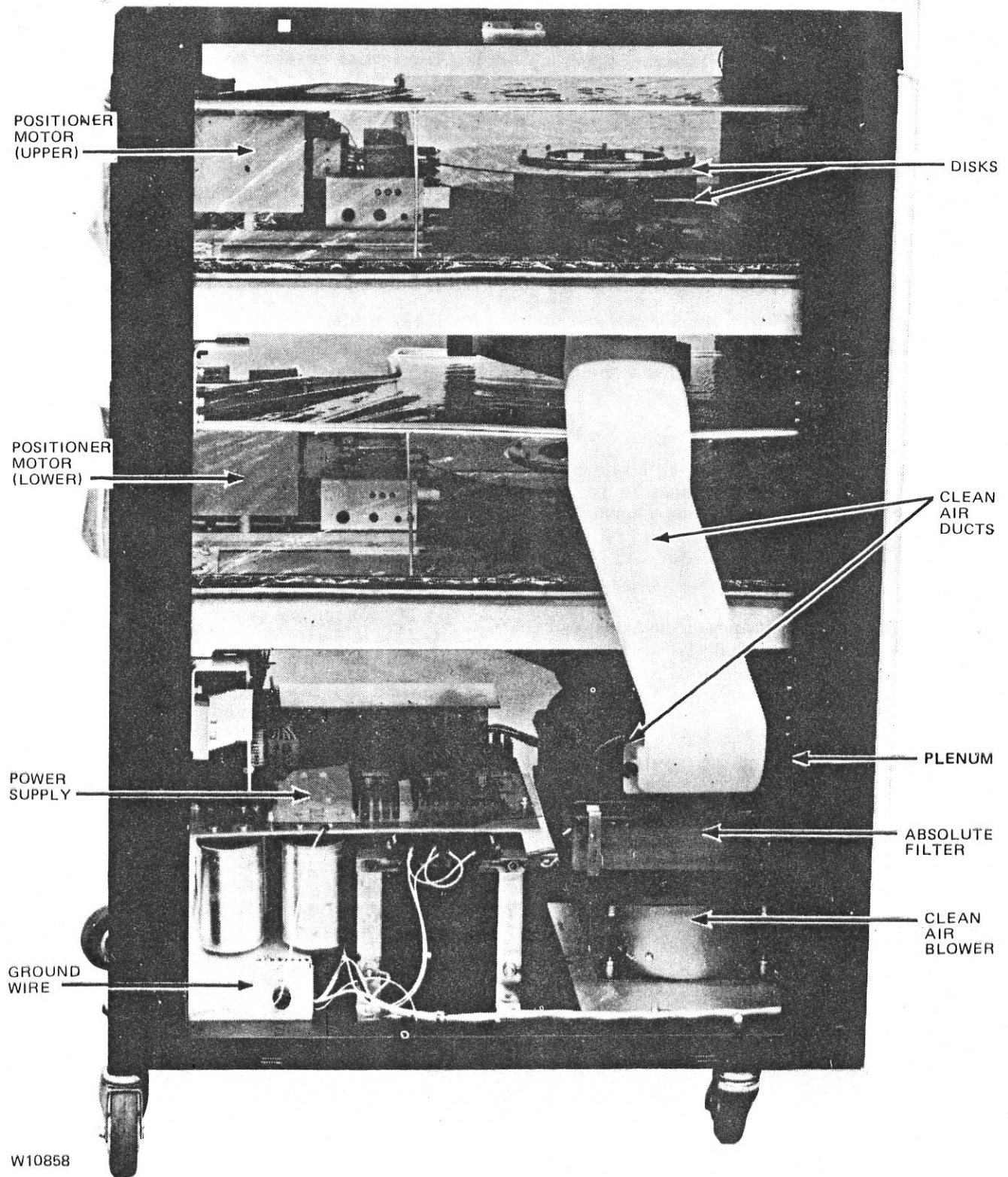


Figure 1-2C. Internal Left Hand View of B 9493 Fixed Disk Drive Unit