

*CorComp 9900
Disk Controller
Disk Drive Installation
-----Procedures-----*

Installing Single Sided/Double Density

Double Sided/Double Density

TM 50-2

When installing this drive in an IBM PC or PC/XT, the only connection which should be left intact is DS1. All other connections should be cut. (RP11 should be removed from drive B.)

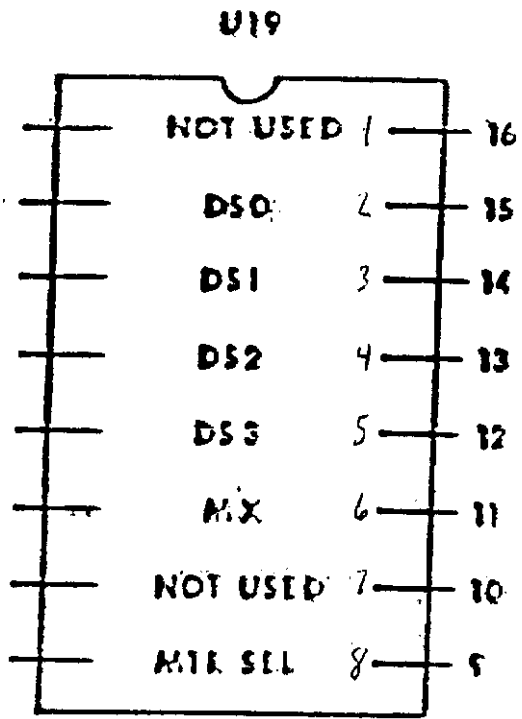
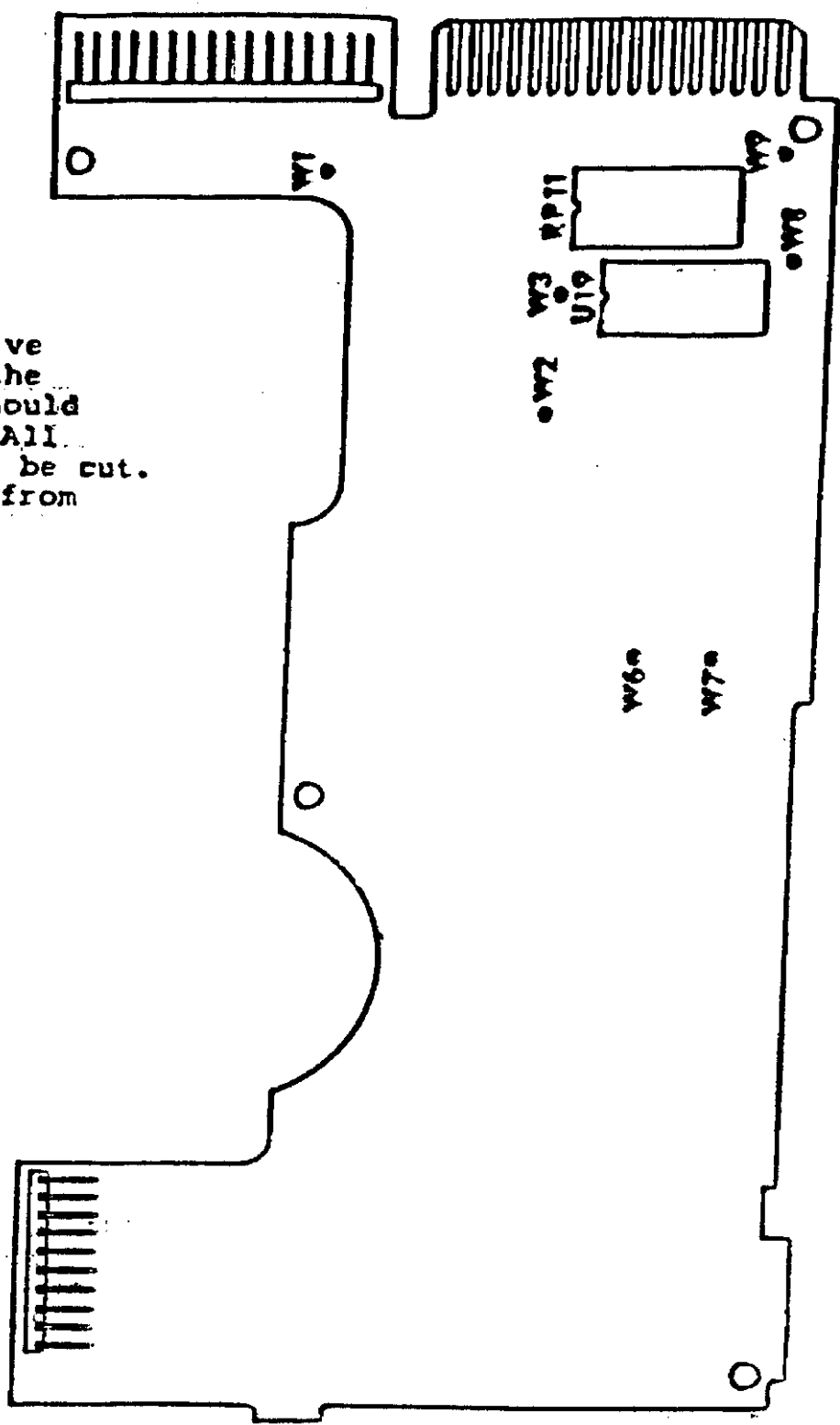


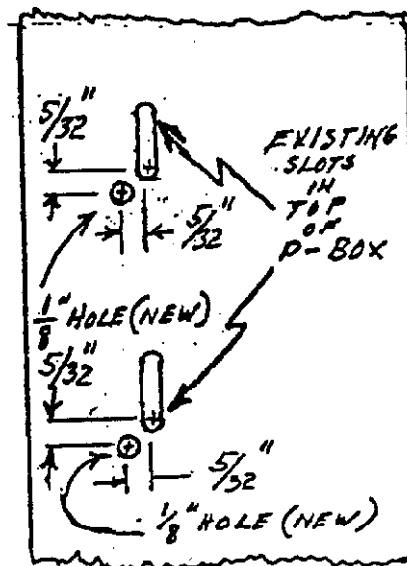
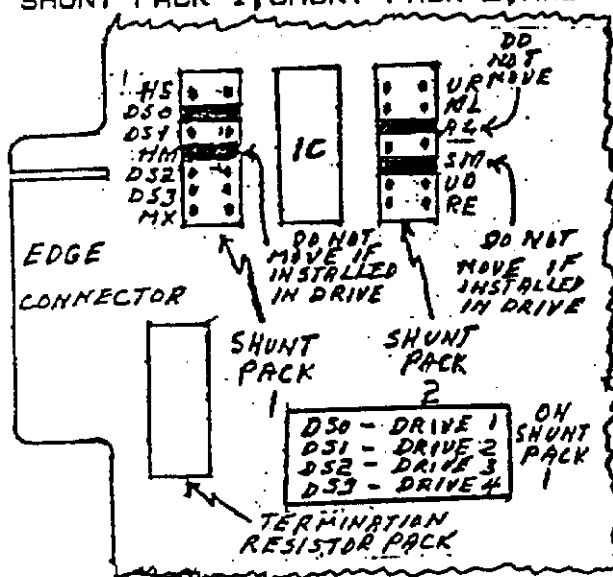
FIGURE 8-3
LOGIC BOARD WITH PROGRAMMABLE SHUNTS AND OPTION PATCHING LOCATIONS

INSTALLATION OF TWO TEAC 1/2 HEIGHT DISK DRIVES IN THE TI P-BOX

CAUTION

Electronic components can be damaged by static electricity discharges. To avoid damage, do not touch the connector contacts.

PLACE THE DRIVE ON A FLAT SURFACE WITH THE COMPONENT SIDE UP AND THE EDGE CONNECTOR TO THE LEFT.
LOCATE SHUNT PACK 1, SHUNT PACK 2, AND THE TERMINATION RESISTOR PACK.



IF SHUNT PACK 1 HAS TWO SHUNTS INSTALLED THEY WILL BE LOCATED AT HM AND DS0. THIS IS THE CORRECT POSITION FOR DISK DRIVE 1. DO NOT MOVE THE SHUNTS LOCATED AT HM. DO NOT MOVE THE SHUNTS LOCATED IN SHUNT PACK 2! IN SHUNT PACK 2! THEY SHOULD BE LOCATED AT AL AND SM WHEN THE DRIVE WAS SHIPPED FROM THE FACTORY.

TO SET UP THE SECOND DISK DRIVE AS DISK DRIVE 2, REMOVE THE SHUNT AT DS0 IN SHUNT PACK 1 WITH A SMALL PAIR OF NEEDLE NOSE FLIERS AND INSTALL IT AT POSITION DS1. THIS IS THE CORRECT POSITION FOR DISK DRIVE 2. DO NOT MOVE THE SHUNT LOCATED AT HM ON SHUNT PACK 1 ON EITHER DRIVE!
REMOVE THE TERMINATION RESISTOR PACK FROM THE SOCKET IN DISK DRIVE 1 WITH A SMALL THIN BLADE SCREWDRIVER.

MOUNT THE TWO DRIVES TOGETHER BY INSTALLING THE METAL PLATE AND THE FOUR SCREWS PROVIDED ON THE BOTTOM OF THE DRIVES.

WARNING: DISCONNECT ALL POWER CORDS FROM THE POWER OUTLETS DURING THE FOLLOWING PROCEDURE!

REMOVE THE BLACK PLASTIC PLATE LOCATED IN THE BOTTOM OF THE DISK DRIVE COMPARTMENT IN THE P-BOX. GRIND 1/8 INCH OFF THE BOTTOM AND RE-INSTALL THE PLATE WITH SHORTER SHEET METAL SCREWS. DRILL TWO 1/8 HOLES IN THE TOP OF THE P-BOX 5/32 INCH FORWARD AND 5/32 INCH TO THE LEFT OF THE TWO SLOTS EXISTING IN THE TOP OF THE P-BOX.

CONNECT THE Y CABLE PROVIDED TO SUPPLY POWER TO BOTH DRIVES AND CONNECT THE POWER CABLE TO EACH DRIVE. THE TEAC DRIVES ARE LOW POWER AND WILL NOT OVERLOAD THE POWER SUPPLY IN THE P-BOX.

CONNECT THE RIBBON CONTROL CABLE PROVIDED TO THE DISK CONTROL CARD AND THE TWO DISK DRIVES.

TURN ON THE P-BOX. IF THE DISK DRIVES STAY ON ALL THE TIME, REVERSE THE CABLE AT THE DISK DRIVE CARD OR THE CONNECTORS AT THE DISK DRIVES

INSTALL THE DISK DRIVES IN THE P-BOX AND SECURE THEM AT THE TOP THROUGH THE NEW HOLES THAT WERE DRILLED WITH THE 2 SCREWS PROVIDED. YOU MAY HAVE TO INSERT A SMALL SCREWDRIVER BETWEEN DRIVE 1 AND THE P-BOX TO LINE UP THE HOLES.

NOTE 1: IF YOUR DISK DRIVES HAVE ONLY ONE SHUNT IN SHUNT PACK 1 AND SHUNT PACK 2, THEY SHOULD BE AT DSO IN SHUNT PACK 1 AND AL IN SHUNT PACK 2 WHEN SHIPPED FROM THE FACTORY. DO NOT MOVE THE SHUNT IN SHUNT PACK 2! THE CORRECT POSITION FOR SHUNT PACK 1 IS DSO FOR DISK DRIVE 1 AND DS1 FOR DISK DRIVE 2. DON'T FORGET TO REMOVE THE TERMINATION RESISTOR PACK FROM DISK DRIVE 1!

NOTE 2: FOR MORE THAN TWO DISK DRIVES--WHETHER SHUNT PACK 1 HAS 1 OR 2 SHUNTS INSTALLED WHEN UNPACKED--THE ONLY SHUNT THAT IS MOVED IS THE ONE LOCATED AT DSO. FOR DISK DRIVE 1 LEAVE THE SHUNT AT DSO. FOR DISK DRIVE 2 MOVE THE SHUNT LOCATED AT DSO TO DS1. FOR DISK DRIVE THREE MOVE THE SHUNT LOCATED AT DSO TO DS2. FOR DISK DRIVE 4 MOVE THE SHUNT LOCATED AT DSO TO DS3.

NOTE 3: DONT FORGET TO REMOVE THE TERMINATION RESISTOR PACKS FROM ALL BUT THE LAST DISK DRIVE. (2 DRIVES--REMOVE THE TERMINATION RESISTOR PACK FROM DISK DRIVE 1) (3 DRIVES--REMOVE THE TERMINATION RESISTOR PACK FROM DISK DRIVES 1 AND 2) (4 DRIVES--REMOVE THE TERMINATION RESISTOR PACKS FROM DISK DRIVES 1, 2 AND 3)

TESTING YOUR DRIVES:::

SELECT TI BASIC FROM THE MASTER SCREEN.

DO NOT PLACE DISKETTES IN THE DRIVES!

ENTER THE FOLLOWING PROGRAM FOR TI DISK CONTROLLER CARD.

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100 OPEN#1:"DSK1.X"  
110 CLOSE#1
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TYPE RUN AND PRESS ENTER. THE RED LIGHT ON DISK DRIVE WILL COME ON BRIEFLY AND THEN GO OUT. THE FOLLOWING MESSAGE WILL APPEAR ON THE SCREEN BECAUSE THERE IS NO DISKETTE IN THE DRIVE.

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I/O ERROR 06 IN 100
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REPEAT THE TEST FOR DISK DRIVES 2 AND THREE IF YOU HAVE THEM SUBSTITUTING DSK2 AND DSK3 RESPECTIVELY FOR DSK1 IN LINE 100 OF THE TEST PROGRAM. WHEN YOU HAVE VERIFIED THAT ALL OF THE DRIVES ARE OPERATING, TYPE BYE AND PRESS ENTER. YOU ARE READY TO START USING YOUR DISK SYSTEM. REFER TO THE TI MANUAL FOR THE DISK MEMORY SYSTEM OPERATION.

CORCOMP DISK CONTROLLER CARD

SELECT TI BASIC FROM THE MASTER SCREEN

ENTER THE FOLOWING PROGRAM FOR THE CORCOMP DISK COTROLLER CARD.

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100 OPEN#1:"DSK1.TEST"  
110 CLOSE#1
```

TYPE RUN AND PRESS ENTER. THE RED LIGHT WILL COME ON BRIEFLY AND THEN GO OUT. THE FOLLOWING MESSAGE WILL APPEAR ON THE SCREEN BECAUSE THERE NO DISKETTE IN THE DISK DRIVE.

I/O ERROR 06 IN 100

REPEAT THE TEST FOR DISK DRIVES 2,3 AND 4 IF YOU HAVE THEM BY SUBSTITUTING DSK2,DSK3,AND DSK4 RESPECTIVELY FOR DSK1 IN LINE 100 OF THE TEST PROGRAM. WHEN YOU HAVE VERIFIED THAT ALL OF YOUR DRIVES ARE OPERATING PROPERLY,TYPE BYE AND PRESS ENTER. YOU ARE NOW READY TO USE YOUR DISK MEMORY SYSTEM. REFER TO THE CORCOMP DISK CONTROLLER MANUAL FOR OPERATING THE DISK MEMORY SYSTEM.

NOTE 4: WHEN RUNNING THE TEST PROGRAMS IF THE RED LIGHT COMES ON AND STAYS ON OR DOES NOT COME ON AT ALL,RE-CHECK TO SEE THAT THE POWER CONNECTORS ARE CONNECTED AND THE RIBBON CABLE IS PROPERLY CONNECTED.

NOTE 5: THE RED LIGHT ON THE DISK DRIVE ONLY COMES ON WHEN THE DISK CONTROLLER CARD IS TALKING TO THE DISK DRIVE.

NOTE 6: WITH THE TI DISK CONTROLLER CARD THE MEMORY WILL BE 180 KILOBYTES PER DISK DRIVE WITH A DOUBLE SIDED DOUBLE DENSITY DISKETTE OR A TOTAL OF 540 KILOBYTES OF DISK MEMORY WITH THREE DISK DRIVES. THE TI DISK CONTROLLER CARD WILL CONTROL 3 DISK DRIVES BUT WILL WRITE AND READ SINGLE DENSITY ONLY ON EACH SIDE OF THE DISKETTE.

NOTE 7: WITH THE CORCOMP DISK CONTROLLER CARD AND A DOUBLE SIDED DOUBLE DENSITY DISKETTE THE DISK MEMORY WILL BE 360 KILOBYTES PER DISK DRIVE OR A TOTAL OF 1.44 MEGABYTES WITH 4 DISK DRIVES. THE CORCOMP DISK CONTROLLER CARD WILL WRITE AND READ DOUBLE DENSITY ON BOTH SIDES OF THE DISKETTE.

CAUTION

Never put a diskette in the drive until the controller and disk drive are properly connected and power is turned on to all units. Also, never insert or remove diskettes when the drive light is on. And never have a diskette in the drive when installing or removing the cable. Diskettes should always be stored in their protective jackets.

INSTALLATION OF ONE FULL HEIGHT TI DISK DRIVE OR TWO HALF HEIGHT TEAC DISK DRIVES IN THE TEX-COMP STAND ALONE DISK DRIVE ENCLOSURE. THE TEX-COMP ENCLOSURE SELF CONTAINED POWER SUPPLY WILL OPERATE ONE FULL HEIGHT DISK DRIVE OR TWO HALF HEIGHT DISK DRIVES WITHOUT OVERLOADING THE SELF CONTAINED POWER SUPPLY.

THE TI DISK CONTROLLER CARD AND DISK MANAGER II MODULE WILL CONTROL ONE TO THREE DISK DRIVES SINGLE OR DOUBLE SIDED SINGLE DENSITY ONLY.

THE COR-COMP DISK CONTROLLER CARD WILL CONTROL ONE TO FOUR DISK DRIVES SINGLE OR DOUBLE SIDED AND SINGLE OR DOUBLE DENSITY.

WARNING: DISCONNECT ALL POWER CORDS FROM THE POWER OUTLETS DURING THE FOLLOWING PROCEDURE!

INSTALLATION OF A TI FULL HEIGHT DRIVE

REMOVE THE EXPANSION BOX DISK DRIVE AND REMOVE THE RESISTOR PACK WITH A SMALL SCREWDRIVER BY SLIPPING THE SCREWDRIVER UNDER THE RESISTOR AND PRYING STRAIGHT UP. SEE DRAWING TO LOCATE THE RESISTOR PACK. REPLACE THE RESISTOR PACK WITH THE ONE SUPPLIED BY TEX-COMP. BE SURE THAT THE NUMBERS ON THE SOCKET LINE UP WITH THE NUMBERS ON THE ON THE REPLACEMENT RESISTOR PACK. RE-INSTALL THE DISK DRIVE IN THE EXPANSION BOX.

REMOVE THE SIX SCREWS WHICH HOLD THE COVER ON THE TEX-COMP STAND ALONE DISK DRIVE ENCLOSURE AND LIFT IT OFF. REMOVE THE TWO SCREWS WHICH SECURE THE RIBBON CABLE CLAMP AT THE REAR OF THE CHASSIS. THE ENCLOSURE IS EQUIPPED WITH TWO POWER CABLES AND CONNECTORS. PLACE A PIECE OF ELECTRICAL TAPE OVER THE OPEN END OF ONE OF THE CONNECTORS. REMOVE THE SHEET METAL COVER ENCLOSING THE DISK DRIVE IF THERE IS ONE. CONNECT THE POWER CONNECTOR TO THE DISK DRIVE. CONNECT THE RIBBON CABLE TO THE DISK DRIVE. AN EXTRA RIBBON CABLE AND ADAPTER CARD IS PACKED WITH THE TI DISK CONTROLLER CARD.

SECURE THE DRIVE TO THE BOTTOM OF THE CHASSIS WITH THE TWO SHORT SCREWS PACKED WITH THE DISK DRIVE.

REPLACE THE RIBBON CABLE CLAMP WITH THE TWO SCREWS THAT WERE REMOVED. DO NOT TIGHTEN THE SCREWS TOO TIGHT. NOW YOU MAY REPLACE THE COVER WITH THE SIX SCREWS THAT WERE REMOVED. PLUG THE RIBBON CABLE INTO THE EDGE CONNECTOR WHICH PROTRUDES THROUGH THE BACK OF THE EXPANSION BOX FROM THE DISK CONTROLLER CARD.

RE-CONNECT ALL POWER CORDS AND TURN ON POWER TO THE STAND ALONE ENCLOSURE WITH THE SWITCH LOCATED ON THE BACK. TURN ON THE EXPANSION BOX. IF THE STAND ALONE DISK DRIVE RED LIGHT STAYS ON CONTINUOUSLY REVERSE THE CONNECTOR AT THE DISK CONTROLLER CARD EDGE CONNECTOR.

TESTING YOUR DRIVES

TURN ON THE EXPANSION BOX, MONITOR AND THE CONSOLE. CLOSE THE DOORS OF BOTH DISK DRIVES. DO NOT INSERT A DISKETTE!

SELECT TI BASIC AND TYPE IN THE FOLOWING PROGRAM AND RUN IT.

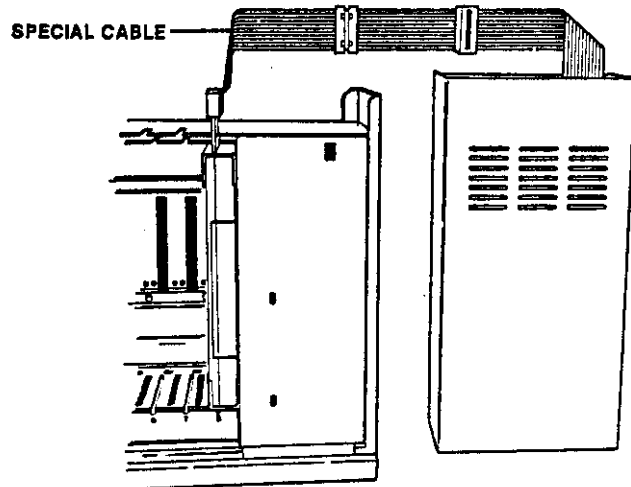
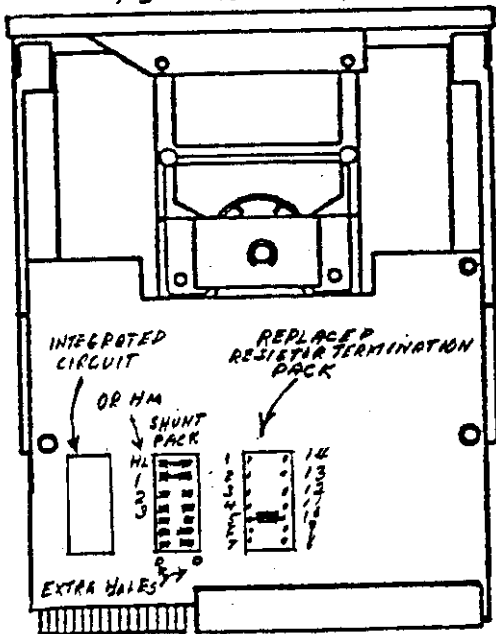
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100 OPEN#1:"DSK1.X"  
110 CLOSE#1
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THE RED LIGHT ON THE DISK DRIVE IN THE EXPANSION UNIT WILL COME ON BRIEFLY AND THE FOLLOWING MESSAGE WILL APPEAR ON THE SCREEN BECAUSE THERE IS NO DISK IN THE DRIVE.

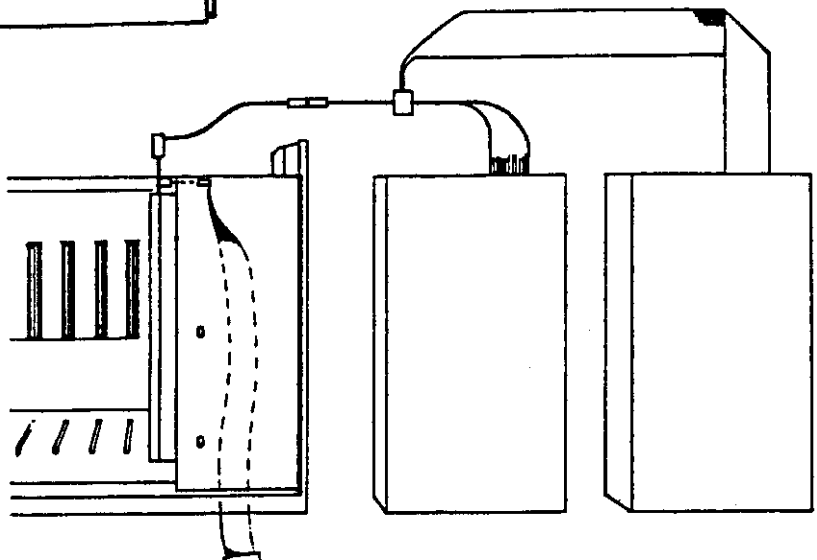
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REPEAT THE TEST FOR DISK DRIVES TWO AND THREE IF YOU HAVE THEM ,ALTERING THE PROGRAM TO REFERENCE DSK2 AND DSK3, RESPECTIVELY.

TI DISK DRIVE



ONE EXTERNAL DISK DRIVE



TWO EXTERNAL DISK DRIVES

INSTALLATION OF TWO HALF HEIGHT TEAC DRIVES IN THE TEX-COMP STAND ALONE

DISK DRIVE ENCLOSURE.

WARNING: DISCONNECT ALL POWER CORDS FROM THE POWER OUTLETS DURING THE FOLLOWING PROCEDURE!

REMOVE THE SIX SCREWS THAT SECURE THE COVER TO THE STAND ALONE ENCLOSURE AND LIFT IT OFF. REMOVE THE TWO SCREWS THAT SECURE THE RIBBON CABLE CLAMP AT THE BACK OF THE ENCLOSURE.

PLACE THE DISK DRIVES ON A FLAT SURFACE WITH THE COMPONENT SIDE UP. REMOVE THE RESISTOR PACK FROM THE DRIVE THAT WILL BE THE NEXT TO LAST DISK DRIVE. SEE THE FIRST TWO PAGES FOR INSTRUCTIONS. PLACE THE SHUNTS IN THE PROPER POSITIONS. SEE THE FIRST TWO PAGES FOR INSTRUCTIONS. INSTALL THE DISK DRIVES FROM THE BOTTOM OF THE ENCLOSURE CHASSIS WITH THE FOUR SCREWS PROVIDED. PLUG IN THE TWO POWER CABLES AND THE RIBBON CABLE CONNECTORS. REPLACE THE RIBBON CABLE CLAMP WITH THE TWO SCREWS THAT WERE REMOVED. REPLACE THE COVER WITH THE SIX SCREWS THAT WERE REMOVED. PLUG THE RIBBON CABLE INTO THE EDGE CONNECTOR WHICH PROTRUDES THROUGH THE BACK OF THE EXPANSION BOX FROM THE DISK CONTROLLER CARD. PLUG IN ALL POWER CORDS. TURN ON THE STAND ALONE ENCLOSURE WITH THE SWITCH ON THE BACK. TURN ON THE EXPANSION BOX. IF THE DISK DRIVES IN STAND ALONE ENCLOSURE RUN ALL THE TIME, REVERSE THE RIBBON CABLE CONNECTOR AT THE DISK CONTROLLER CARD.

TESTING YOUR DRIVES::: SEE PAGE TWO AND THREE FOR INSTRUCTIONS.

CAUTION

Always disconnect the Peripheral Expansion System before moving the computer console. The cable connecting the console and peripheral system is not designed to support the weight of the units. To prevent damage, always disconnect all devices before moving any part of your Home Computer system. For long distance moves, remove all cards from the Peripheral Expansion System and repack the devices in their original packing material.

WARNING

Each time you operate your computer/disk system, follow this power-up sequence:

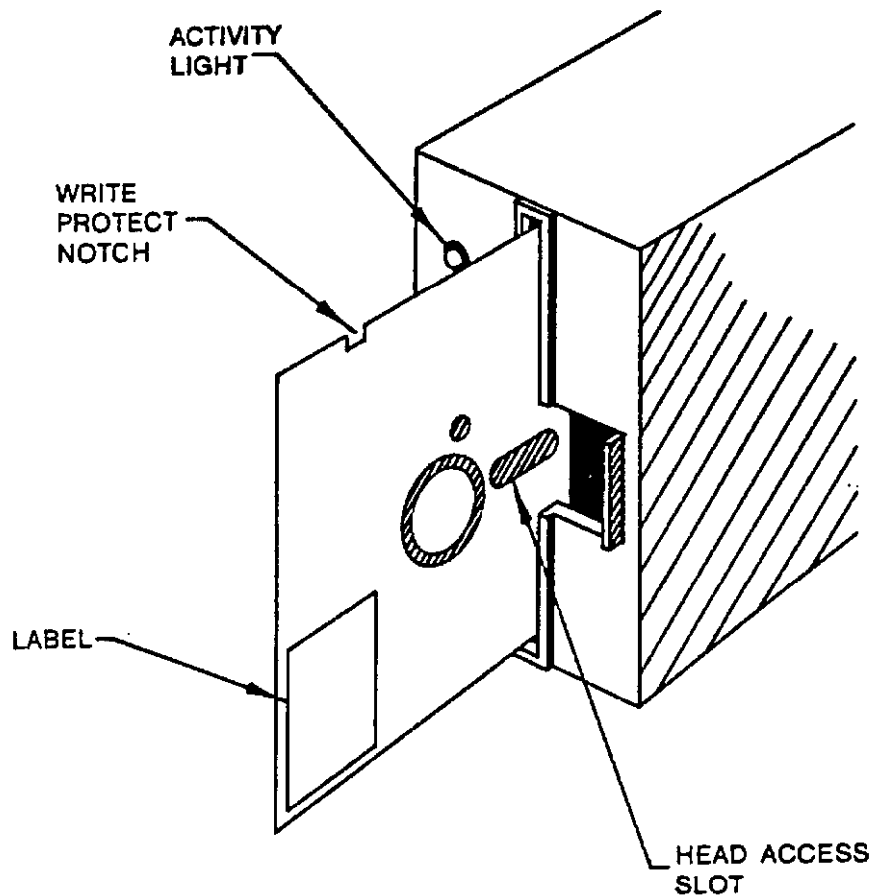
1. Turn on the external disk drives.
2. Turn on the Peripheral Expansion System unit.
3. Then turn on the monitor and computer console.

For proper memory allocation by the computer, the Peripheral Expansion System must be ON when the computer console is switched on. Otherwise, the disk drives, Controller Card, and Disk Manager module will not function correctly. The computer console must be turned off and turned back on in order to restore normal operation.

When you turn on the console, the disk drives' working lights may come on briefly and then go off. If they stay on, the disk drive cable is probably plugged in upside down. Turn off all units and make sure that the disk drive cable connections have been made properly.

Loading Diskettes

The proper way to insert (load) a floppy diskette into the disk drive is...gently. The label should be near the outside edge (where you hand holds the diskette). The "slot" should point straight in, and the diskette should slip easily but firmly into the correct place.



Note: Always turn the power ON to a disk drive before inserting a diskette. Never turn the power OFF until the diskette has been completely removed.