

S3200/1800 Floating Power Supply (continued)

A change of size to the power supply necessitated the kit since a shorter screw is required to attach the supply to the circuit board.

The shield that covers the 5V supply is no longer needed nor does it fit the new supply, so when installing the parts replacement kit, just toss the shield and mounting nuts away.

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4041 DISK DRIVE ERROR CODES

The error codes sent to the 4041 by the 4041DDU, 4925, or 4926 are not easily interpreted. Also, the meaning of each error code will vary, depending on the disk unit used. Below is a list of error codes and their meaning. Note that each error will give one of two error codes, depending on whether the Address Valid bit is set. For troubleshooting, the condition of the Address Valid bit is unimportant.

4041 DDU

Drive Errors

1240 1368	No error status.
1241 1369	No index signal.
1242 1370	No seek complete.
1243 1371	Write fault.
1244 1372	Drive not ready.
1245 1373	Drive not selected.
1246 1374	No track 00.
1247 1375	Multiple Winchester drives selected.
1249 1377	Media change. This status indicates that the removable media was changed since the last command was issued to the requested unit. This status will be reported the first time a command which

reads or writes on the media is issued after the media change. The requested command will not be performed. This condition is cleared for the next I/O.

1253 1381 Seek in progress.

Controller Errors

1256 1384	ID read error. (ECC error in the ID field).
1257 1385	Uncorrectable data error during a read.
1258 1386	ID address mark not found.
1260 1388	Record not found. (found correct cylinder and head but not sector).
1261 1389	Seek error. (R/W head positioned on a wrong cylinder and/or selected on wrong head).
1263 1391	Write protected.
1264 1392	Correctable data field error.
1265 1393	Bad block found.
1266 1394	Format error. (The controller detected during a check track command that the format on the drive was not as expected).
1268 1396	Unable to read an alternate track address.
1270 1398	Attempted to directly access an alternate track.
1271 1399	Sequence time out during disk or host transfer.

Command Errors

1272 1400	Invalid command received from the host.
1273 1401	Illegal disk address. (Address beyond the max. address).
1274 1402	Illegal function for the type of drive specified.

4041 Disk Drive Error Codes (continued)

1275 1403 Volume overflow. (Maximum sector address was exceeded during a multiple sector read or write).

Misc. Errors

1288 1416 RAM error.

4925

1240 1368 No error.
 1242 1370 No seek complete.
 1243 1371 Write fault. (FDD fault).
 1244 1372 Drive not ready.
 1245 1373 Drive not selected.
 1246 1374 No track 0.
 1247 1375 Illegal or multiple drives selected.
 1250 1378 Insufficient capacity.
 1256 1384 I.D. CRC error.
 1257 1385 Data CRC error.
 1258 1386 I.D. address mark not found.
 1259 1387 Data address mark not found.
 1260 1388 Record not found. (Bad cylinder).
 1261 1389 Seek error. (Wrong cylinder).
 1262 1390 DMA timeout. (FDC overrun).
 1263 1391 Write protected.
 1265 1393 Bad block found.
 1272 1400 Invalid command.
 1274 1402 System error.
 1275 1403 Power fail.
 1288 1416 RAM diagnostic failure.
 1289 1417 Program memory checksum error.

4926

1240 1368 No error detected.
 1241 1369 No index detected.
 1242 1370 No seek complete.
 1243 1371 Write fault.
 1244 1372 Drive not ready after it was selected.

1246 1374 Track 00 not found.
 1256 1384 ID field read error.
 1257 1385 Uncorrectable data error.
 1258 1386 Address mark not found.
 1260 1388 Target sector not found.
 1261 1389 Seek error.
 1264 1392 Correctable data error.
 1265 1393 Bad track flag detected.
 1266 1394 Format error.
 1268 1396 Illegal (direct) access to an alternate track,
 1269 1397 Format alternate track command to illegal track.
 1270 1398 Attempted to access and alternate track not flagged as alternate.
 1271 1399 Format alternate track command to the original bad track.
 1272 1400 Invalid command.
 1273 1401 Illegal disk.
 1288 1416 RAM diagnostic failure.
 1289 1417 Program memory checksum error.
 1290 1418 ECC diagnostic failure.

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4041 SYS ERR OC, 10,2C CORRECTION

Ref: Mod 62330
 SN B071905
 670-9298-XX

It has been discovered that some 4041s utilizing the CPU board with on-board memory occasionally generate a Sys Err OC, Sys Err 10 or Sys Err 2C error message. This has been traced to insufficient power supply decoupling of the CPU DRAM chip, A2U3061. The cure is to solder a .47 ufd capacitor, C3062, Tektronix part number 283-0203-00, directly to the leads on pins 11 and 31 of A2U3061. The capacitor must be located across the top of the chip,

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4041 SYS ERR OC, 10,2C Correction (Continued)

with the leads kept as short as possible. The capacitor is ineffective if soldered to the foil side of the board. This modification will be installed in all 4041s manufactured after serial number B071905.

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4696: 110/220V CONVERSION

Ref: 4696 Service Mnl, 070-5851-00

Line voltage conversion for the 4696 is not as simple as moving a jumper and changing the line fuse. Unique parts are required for each line voltage, as follows:

110V Components

L.V. Transformer	118-4936-00
Power Supply Board	118-4932-00
U.S. Power Cord	161-0066-00

220V Components

L.V. Transformer	118-4937-00
Power Supply Board	118-5022-00
Power Cord, A1, Euro	161-0066-09
Power Cord, A2, U.K.	161-0066-10
Power Cord, A3, Aust	161-0066-11
Power Cord, A4, US	161-0066-12
Power Cord, A5, Swis	161-0154-00

These items may be costly to our customers, especially when exported. Please use any available opportunity to advise salesmen and OEM customers to order the line voltage option with the product.

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