



Originator: P.A. & S. L I E G E **Product:** B1990

Title: B1965/95 PROC 9M/S - MEMORY CONTROL

Publications Affected: (Insert ATI Number on document page(s) as indicated)

NONE

Purpose: To announce the introduction of new PROC-9M/S and Memory Control Boards.

THESE BOARDS ARE FULLY COMPATIBLE AND CAN BE INTERMIXED WITH THE OLD ONES.

Nothing has been changed in functional hardware. Only obsolete FCT circuitries have been removed.

The table below gives a cross reference for compatibility between the new boards and the old ones. This table is valid at the time of the release.

	COMPATIBLE OLD ASSY NUMBER	NEW ASSY NUMBER	NEW BD NUMBER	NEW SCHEMA NUMBER
CD A9	2230 2640	3158 5409	3158 5417	3158 5458
CD B9	2230 2905	3158 5466	3158 5474	3158 5516
CD C9	1988 5862	3158 5524	3158 5532	3158 5573
CD D9	1988 5854	3158 5581	3158 5599	3158 5631
CD E9	2230 1089	3158 5649	3158 5656	3158 5698
CD F9	1988 7660	3158 5706	3158 5714	3158 5755
CD G9	2230 2129	3158 5763	3158 5771	3158 5813
CD R9	1988 5953	3158 5821	3158 5839	3158 5870
CD S9	3158 2943	3158 6308	3158 6316	3158 6357

NOTE: H9 board remains unchanged. This board will be "cleaned" later.

F.E. Dist. Code BB



Originator: P.A. & S. - Liège

Product: B1990

Title: TRIPLE POWER SUPPLY AND EXPANSION CABINETS.

Publications Affected: (Insert ATI Number on document page(s) as indicated)

NONE.

Purpose: To advise the field of the triple power supply removal in expansion cabinets produced after March 1985. Removal is not required in existing dual cabinet configurations.

The triple power supply which generates the + 12 V, - 12 V and the - 2 V is NOT required in the expansion cabinet when a dual cabinet configuration is installed: the triple power supply which is located in the main cabinet is sufficient to provide the power requirements of all possible B1990 configurations.

Expansion cabinets shipped after March 1985 do not include the triple power supply but contain wires to be connected in the main cabinet at installation time.

It is NOT anticipated that removal of the triple power supply is required on existing dual cabinet configurations. A failed triple power supply will not need to be replaced in a dual configuration if the wires and harness are ordered to perform the modification. The triple power supply may be removed from the expansion cabinet and sent to a repair center to be used later as spare.

1. INSTALLATION OF THE CABINET EXPANSION

The free standing DL2 expansion cabinets (T/U 3158 0368) will be manufactured without the triple power supply and will contain the cables to perform the connection to the DL2 main cabinet.

A supplemental cable adapter supplied with each DL2 expansion allows connection of the expansion cabinet to a DL1 main cabinet.

F.E. Dist. Code

AI

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Installation of the DL2 expansion to a DL2 main cabinet

Refer to the INSTALLATION MANUAL appendix A: EXPANSION CABINET INSTALLATION.

After performing the mechanical part of the installation also perform the following steps:

Connect the ground wire (P/N 3158 9013) to the ground bus bar in the main cabinet (refer to figures 1 and 4).

Connect the -2 V wire (P/N 3158 9021) to the triple power supply at output "OUT 1 -" (refer to figures 1, 2 and 5).

Connect the +12 V wire (cable P/N 3158 3495) which is labelled "OUTPUT 2 +" to the triple power supply at output "OUT 2 +" (refer to figures 2 and 8).

Connect the -12 V wire (wire P/N 3158 9005) which is labelled "OUTPUT 3 -" to the triple power supply at output "OUT 3 -" (refer to figures 2 and 6).

Proceed with the remaining cables as per INSTALLATION MANUAL.

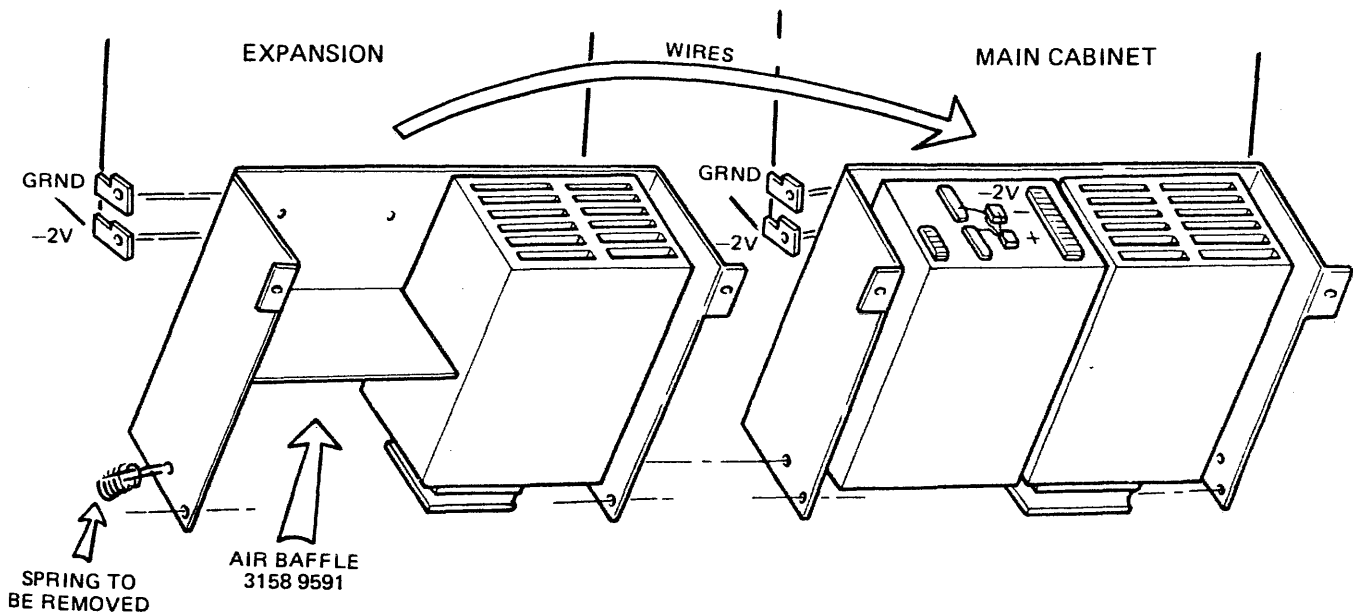


Figure 1. Triple Power Supply Removal

Installation of the DL2 expansion to a DL1 main cabinet

The DL2 expansion cabinet needs the replacement of the cable adaptor which must connect the DL2 Air Loss/OVT to the DL1 Air Loss/OVT.

Replace cable P/N 3158 3479 with the cable P/N 3158 3925 (refer to figures 11 and 9).

Proceed as if the main cabinet was a DL2 cabinet.

Installation of the DL1 expansion to a DL2 main cabinet

The DL1 expansion cabinet needs the replacement of the cable adaptor which must connect the DL1 Air Loss/OVT to the DL2 Air Loss /OVT.

Replace cable P/N 2232 0477 with the cable P/N 3158 3917 (refer to figures 10 and 12).

Proceed as if the main cabinet was a DL2 cabinet.

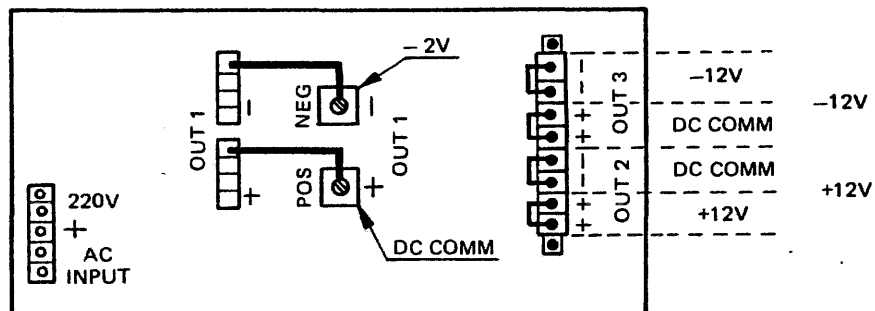


Figure 2. Triple Power Supply Connections

2. REMOVAL OF THE TRIPLE POWER SUPPLY ON EXISTING DUAL CABINET CONFIGURATIONS.

This procedure is not mandatory. It may be performed to avoid replacing a failed triple power supply with a new one.

Removal of the triple power supply in a cabinet expansion.

Note: Refer to figures for cable identifications.

Power off and disconnect the mains plugs.

Disconnect the -2 V and GROUND wires.

Disconnect the 220 V AC cable connections at the +5 V module and remove the cable from the triple power supply.

Move the +12 V wire from output "OUT 2 +" in the expansion to the corresponding output "OUT 2 +" in the main cabinet.

In the DL2 cabinets the cable P/N 3158 3495 is long enough.

In the DL1 cabinets the cable P/N 3158 9609 is required since the wire going to "OUT 2 +" is too short.

Remove the cable P/N 1988 8627 "DC PWR OUT" and replace it with the wire P/N 3158 9005 which connects TB1-1 in the expansion to the triple power supply (main cabinet) at output "OUT 3 -".

Install the cable P/N 3158 9013 between both ground bus bars.

Install the cable P/N 3158 9021 between the -2 V bus bar of the expansion cabinet and the negative output "OUT 1 -" of the main cabinet triple power supply.

Remove the triple power supply and replace it with the air baffle P/N 3158 9591. Also remove the spring which balances the weight of the triple power supply (refer to figure 1).

Terminate the rework by putting tiewraps (P/N 1112 0697) on the cables and wires which were replaced.

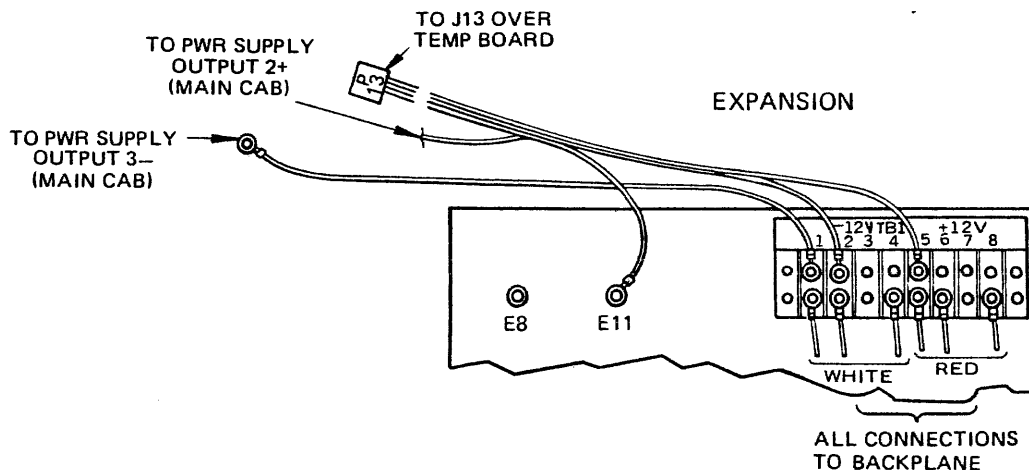


Figure 3. 3158 3495 or 3158 9609 Connections

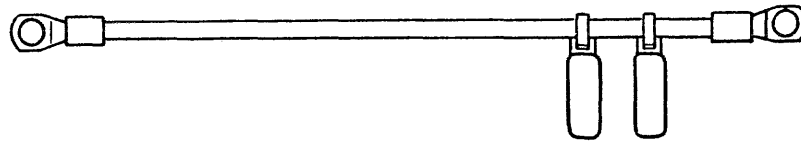


Figure 4. 3158 9013 CA. GROUND EXP.

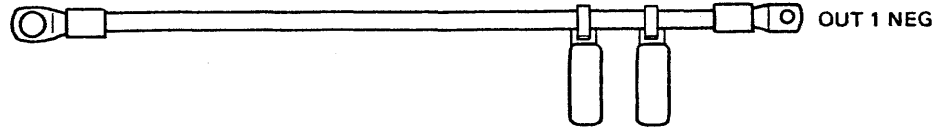


Figure 5. 3158 9021 CA, -2V POWER EXP.

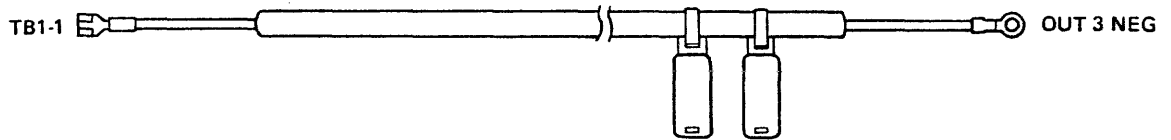


Figure 6. 3158 9005 CA, DC POWER OUT

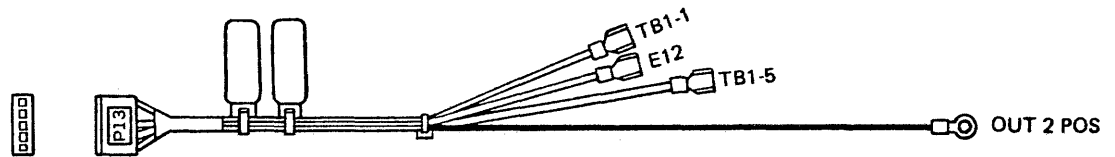


Figure 7. 3158 9609 CA, POWER SEQUENCE - DL1

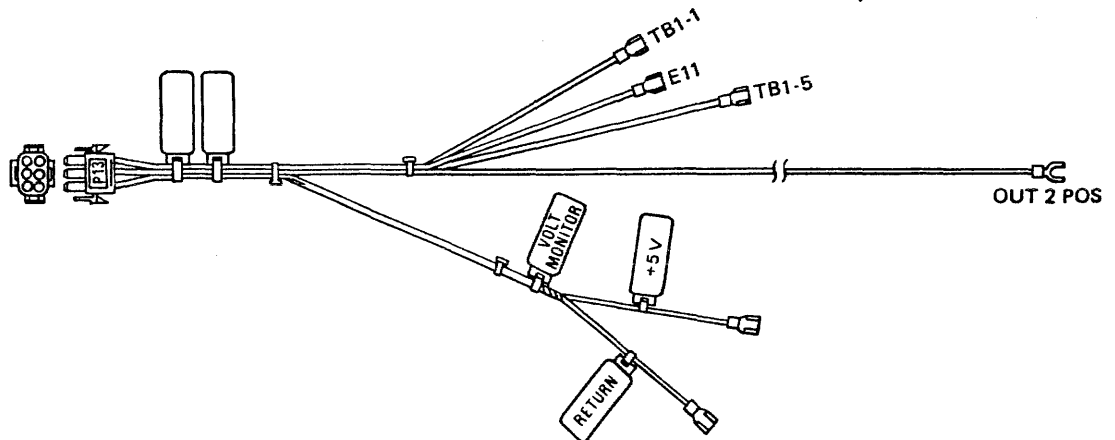


Figure 8. 3158 3495 CA, POWER SEQUENCE - DL2

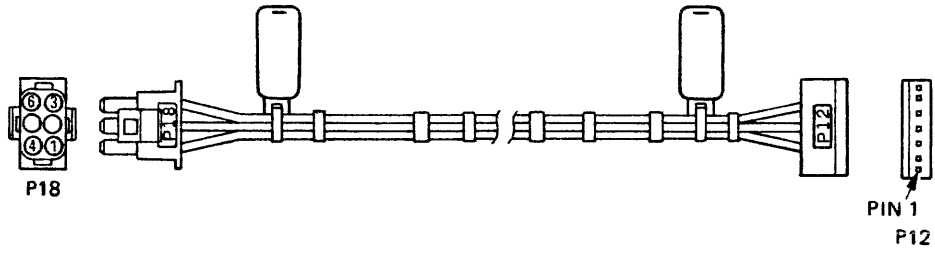


Figure 9. 3158 3925 CA, DL2 EXP to DL1 Main Cabinet

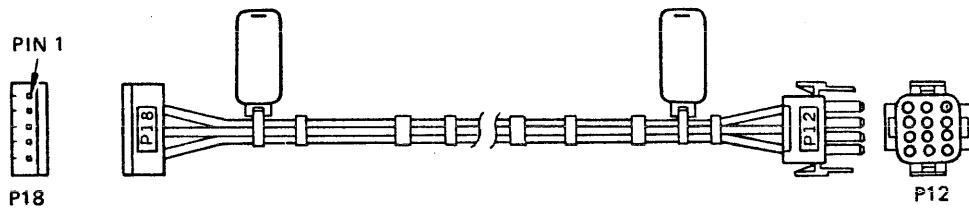


Figure 10. 3158 3917 CA, DL1 EXP to DL2 Main Cabinet

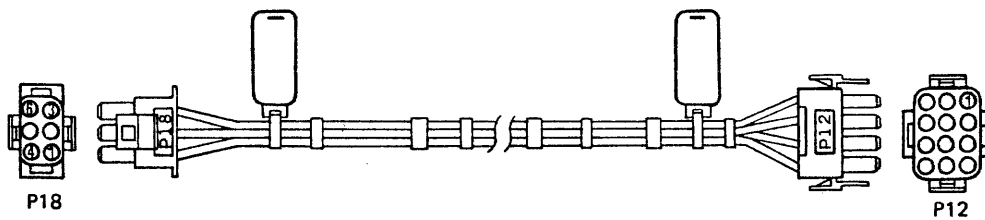


Figure 11. 3158 3479 CA, DL2 EXP to DL2 Main Cabinet

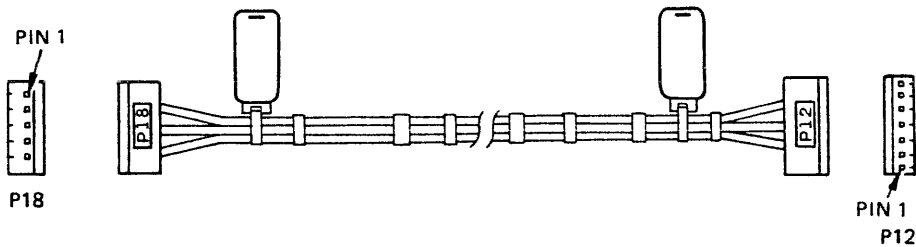


Figure 12. 2232 0477 CA, DL1 EXP to DL1 Main Cabinet



Originator: **P.A. & S. - Liège**

Product: B1990

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Publications Affected: (Insert ATI Number on document page(s) as indicated)

NONE.

Purpose: To advise the field of the triple power supply removal in expansion cabinets produced after march 85. Removal is not required in existing dual cabinet configurations.

The triple power supply which generates the + 12 V, - 12 V and the -2 V is NOT required in the expansion cabinet when a dual cabinets configuration is installed.

The overall consumption of all possible configurations only requires the triple power supply which is located in the main cabinet.

Expansion cabinets shipped after march 1985 do not include any more the triple power supply and contain the wires to be connected in the main cabinet at the installation time.

It is NOT anticipated to remove the triple power supply in existing dual cabinet configurations however a failed triple power supply do not need to be replaced in a dual configuration if the wires and harness to perform the modification are ordered. The triple power supply may be removed in the expansion then sent back to a repair center and used later as spare.

INSTALLATION OF THE CABINET EXPANSION

The free standing DL2 expansion cabinets T/U 31580368 will be manufactured without the triple power supply and will contain the cables to perform the connection to the DL2 main cabinet.

A supplemental cable adapter supplied with each DL2 expansion allows to connect the expansion cabinet to a DL1 main cabinet.

Installation of the DL2 expansion to a DL2 main cabinet

Refer to the INSTALLATION MANUAL appendix A: EXPANSION CABINET
INSTALLATION.

After performing the mechanical part of the installation also
perform the following steps:

Connect the ground wire P/N 31589013 to the ground bus bar in
the main cabinet (Refer to figures 1 and 4).

Connect the -2 V wire P/N 31589021 to the triple power supply
at output "OUT 1 - " (Refer to figures 1, 2 and 5).

Connect the +12 V wire (cable P/N 31583495) which is labelled
" OUTPUT 2 + " to the triple power supply at output " OUT 2 + "
(Refer to figures 2 and 8).

Connect the -12 V wire (wire P/N 31589005) which is labelled
" OUTPUT 3 - " to the triple power supply at output " OUT 3 - "
(Refer to figures 2 and 6).

Proceed with the remaining cables as per INSTALLATION MANUAL.

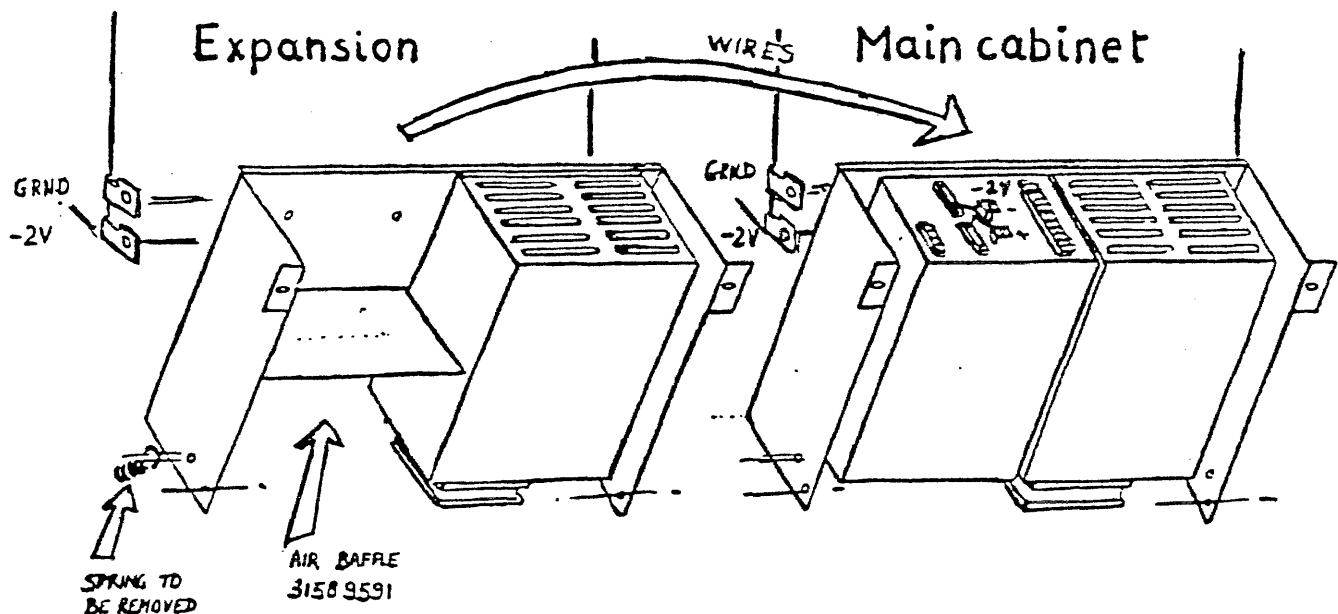


Figure 1. Triple power supply removal.

Installation of the DL2 expansion to a DL1 main cabinet

Installation is similar to DL2 to DL2 installation however the DL2 expansion cabinet needs the replacement of the cable adaptor which must connect the DL2 Air Loss/OVT to the DL1 Air Loss/OVT.

Replace cable P/N 31583479 by the cable P/N 31583925 (Refer to figures 11 and 9).

Proceed as if the main cabinet was a DL2 cabinet.

Installation of the DL1 expansion to a DL2 main cabinet

Installation is similar to DL2 to DL2 installation however the DL1 expansion cabinet needs the replacement of the cable adaptor which must connect the DL1 Air Loss/OVT to the DL2 Air Loss/OVT.

Replace cable P/N 22320477 by the cable P/N 31583917 (Refer to figures 10 and 12).

Proceed as if the main cabinet was a DL2 cabinet.

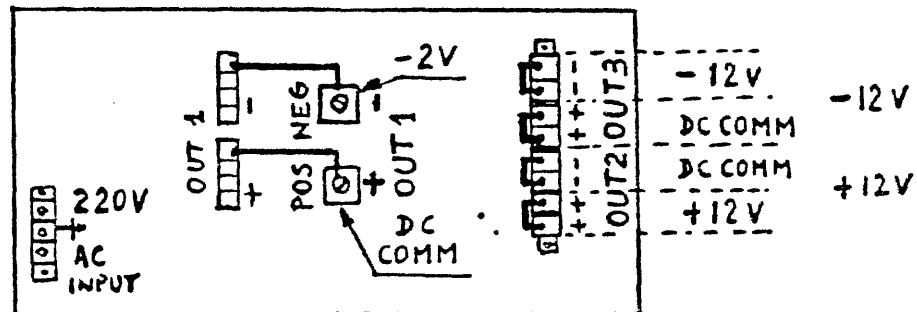


Figure 2. Triple power supply connections.

REMOVAL OF THE TRIPLE POWER SUPPLY IN EXISTING INSTALLATIONS

This procedure is not mandatory at all. It may be performed to avoid replacing a failed triple power supply by a new one and send it for repair.

Removal of the triple power supply in a cabinet expansion.

NOTE: Refer to figures for cable identifications.

Power off and disconnect the mains plugs.

Disconnect the -2V and GROUND wires.

Disconnect the 220V AC cable connections at the +5V module and remove the cable from the triple power supply.

Move the +12V wire from output " OUT 2 + " in the expansion to the corresponding output " OUT 2 + " in the main cabinet. In the DL2 cabinets the cable P/N 31583495 is long enough. In the DL1 cabinets the cable P/N 31589609 is required since the wire going to " OUT 2 + " is too short.

Remove the cable P/N 19888627 "DC PWR OUT" and replace it by the wire P/N 31589005 which connects TB1-1 in the expansion to the triple power supply (main cabinet) at output " OUT 3 - ".

Install the cable P/N 31589013 between both ground bus bars. Install the cable P/N 31589021 between the -2V bus bar and the negative output " OUT 1 - " of the main cabinet triple power supply.

Remove the triple power supply and replace it by the air baffle P/N 31589591. Also remove the spring which balances the weight of the triple power supply (refer to figure 1).

Terminate the rework by putting tiewraps on the cables and wires which were replaced.

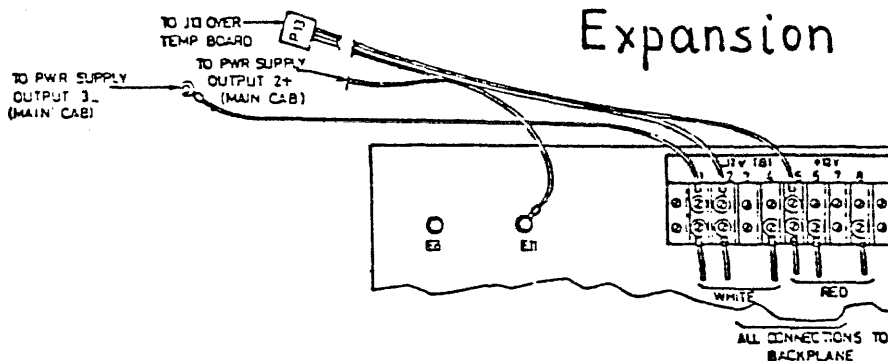


Figure 3. 31583495 or 31589609 connections.

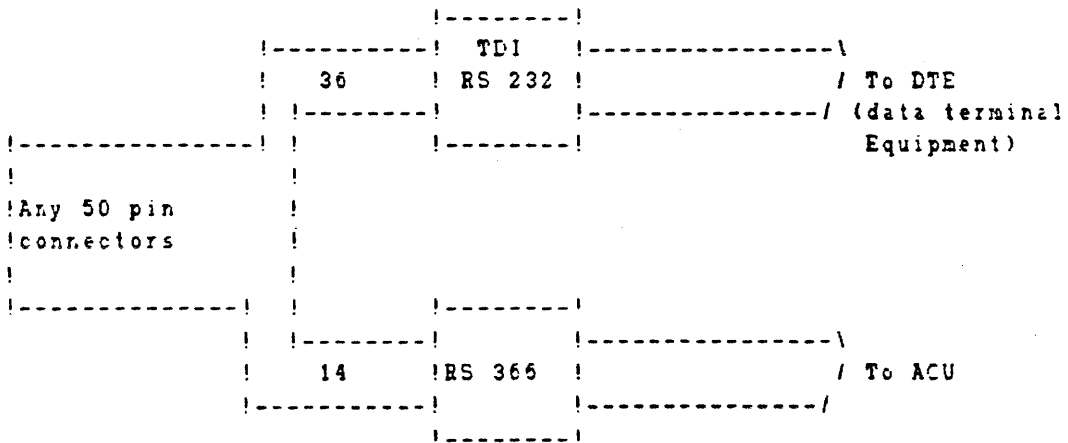
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!P ! S ! M !	! B !	! LO !	UP A	! LO info ! \$X !	! 50
!R ! ! L !	! A !	! --- !	line	! --- !	pin
!O ! M ! C !	! S !	! !	driver	! !	50
!C ! E ! 4 !	! E !	UP C	! L1 !	! L1 info ! #X !	pin
!E ! M !	! 24 !	! data !	! --- !	! --- !	! --- !
!S ! O !	! kits !	! pipe !	! !	! !	! 50
!S ! R ! E !	! I !	line	! L2 !	uF B	! L2 info ! \$Y !
!O ! Y ! A !	! N !	! --- !	line	! --- !	pin
!R ! ! S !	! F !	! !	driver	! !	50
! ! !	! C !	! L3 !	! !	! L3 info ! #Y !	pin

Handwritten notes:
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 B07/...

QUAD-II ADAPTER

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INTERFACE CABLE (FOR ADO CAPABILITY)

Only one RS366 per line processor A or B.

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7. MAINTENANCE PHILOSOPHY

The maintenance philosophy of the B1990 which is the card replacement will be applicable.

The maintainability elements are:

7.1 On-board self diagnostic

A resident on-board diagnostic (stored in E-Proms) will be executed either at power on time or by depressing a card front plane pushbutton. The self-test will verify the basic hardware of the adapter. In case of failure, a front plane led will be activated. The test will include line loopback capability for both data and 801ACU interface drivers and receivers.

7.2 Diagnostic test

A new standalone diagnostic test (MTR: maintenance test routine) will be used to diagnose the QUAD-II adapter.

Fault isolation will be realized at the card level. Card repair will be done by card replacement.

Terminal test section of the diagnostic test will be used to test adapter, lines and terminal equipments.

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Q.A.S.D., OP CODES AND R/D

READ:

0000 000D 0000 00AN 0000 UUUU

D: READ E.R.D

A = 0: FILE ADDRESS X SECTOR LENGTH + BASE ADD. = CACHE ADD

A = 1: FILE ADDRESS + BASE ADD. = CACHE ADD., DO NOT READ REPORT

N: MAINTENANCE READ, INHIBIT STOP-ON-SYNDROME ≠ 0

WRITE:

0100 0000 0000 0000 0000 UUUU

TEST:*

1000 0000 0000 00A0 0000 UUUU

A VARIANT SAME AS READ

UUUU ≥ @8@ FOR ALL OP CODES

*FLOW FOR TEST OP:

1. READ LOCATION SPECIFIED IN FILE ADDRESS AND SAVE IT
2. WRITE @C6E50F83@ INTO THAT LOCATION
3. READ IT BACK AND CHECK DATA
4. RE-WRITE ORIGINAL DATA INTO THAT LOCATION (SAVED IN STEP 1)

TO INDICATE TIMEOUT ON TEST OP (UNID ID MASKS BIT 12), INTERNAL ERROR + NOT READY (BITS 3 and 16) ARE SET.

IF TEST FAILS, BIT 15 (PARITY ERROR) SET, EVEN IF IT IS A DATA COMPARE ERROR.

ERD:

WORD 1, COMMAND & EXCEPTIONS (CA REPORT, BYTES 0 & 1)

WORD 2, SECTOR TAG (Q.A.S.D.) OR CURRENT TAG ADDRESS

WORD 3 MSB, XCABNNNN*

WORD 3 LSB, MSB OF FILE ADDRESS

WORD 4, REST OF FILE ADDRESS

WORD 5, WO, 1ST HALF OF LAST DATA WORD

WORD 6, WI, LAST HALF OF LAST DATA WORD

*XCAB = 1100, CHECK BIT ERROR

XCA = 101, CORRECTABLE. B = 1, ERROR IN 2ND WORD

NNNN = BIT # IN ERROR

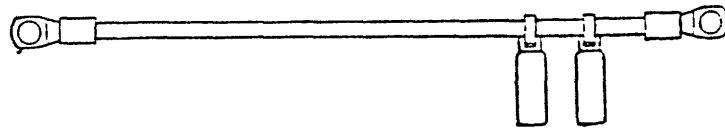


Figure 4. 31589013 CA, GROUND EXP

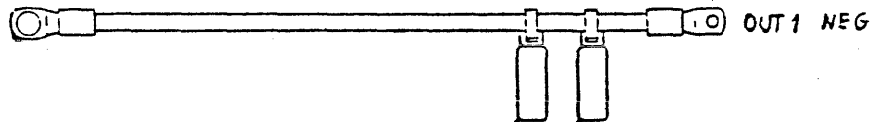


Figure 5. 31589021 CA, -2V POWER EXP.

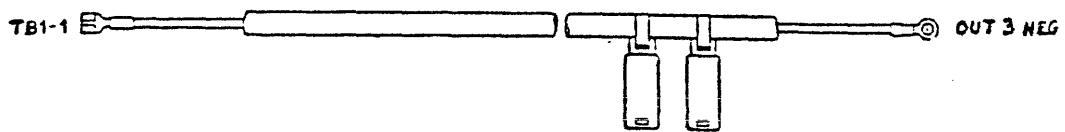


Figure 6. 31589005 CA, DC PWR OUT.

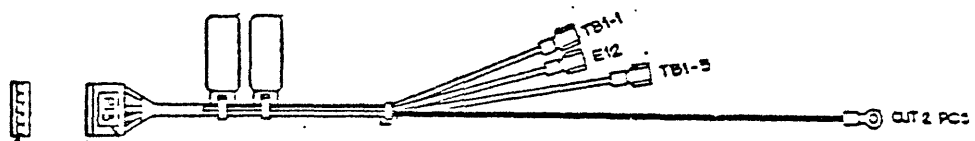


Figure 7. 31589609 CA, POWER SEQUENCE - DL1.

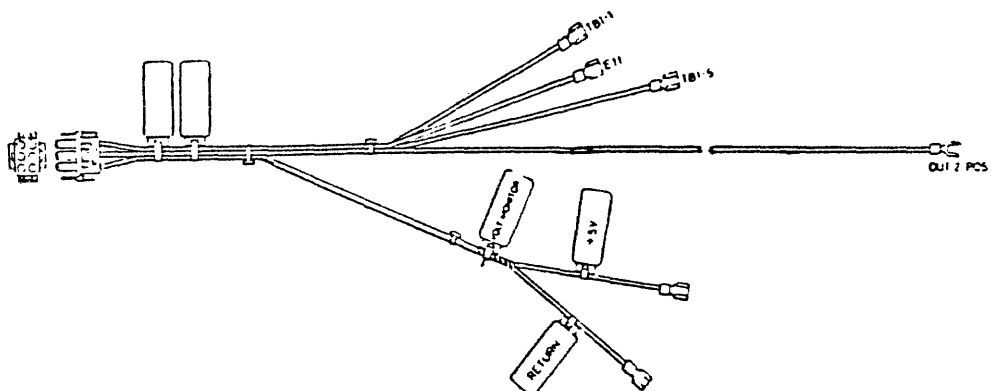


Figure 8. 31583495 CA, POWER SEQUENCE - DL2.

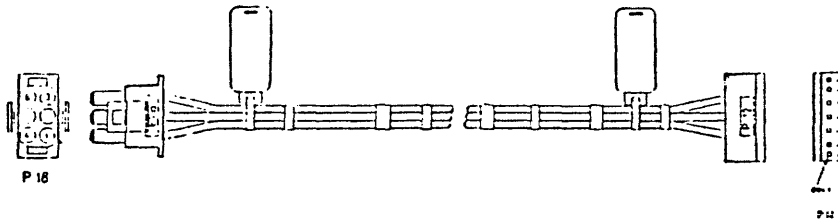


Figure 9. 31583925 CA, DL2 EXP to DL1 Main cabinet.

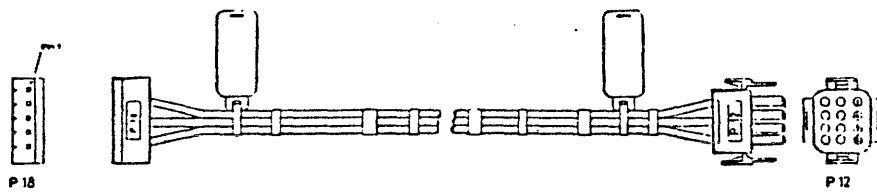


Figure 10. 31583917 CA, DL1 EXP to DL2 Main cabinet.

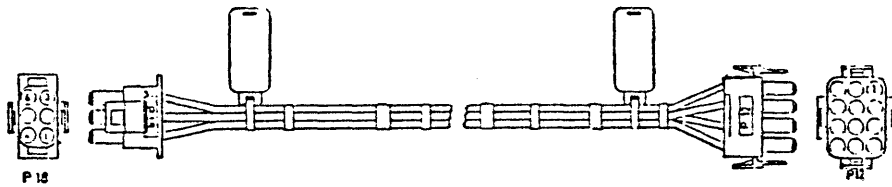


Figure 11. 31583479 CA, DL2 EXP to DL2 Main cabinet.

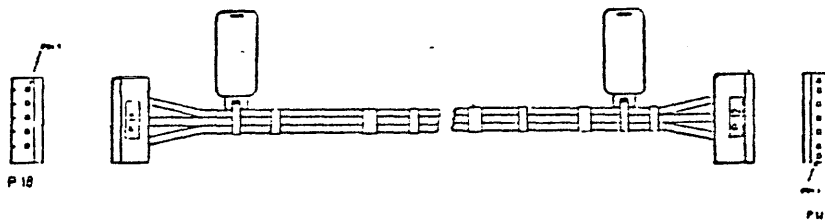


Figure 12. 22320477 CA, DL1 EXP to DL1 Main cabinet.

FUTURE PROJECT

I/O
Qualification of Flexible Disk Control CTL I/O on B1990.

- B1900 I/O control will be used as it is in the B1990.
- A cable adapter, (the same as used for the MTU # 5B), will be released for the B1990.
- The maintenance philosophy will be the card swapping and no card test data will be shipped with the control.
- A test routine for the B1990 has been developed
 - o CT 3159 0342
 - o T 3159 0367
 - o A 3159 0359 (S.M.G.)

FUTURE PROJECT

XE500

- XE500 will progressively replace the B1990 production.
- Liège PA&S has the H/W support for this product.
- Future qualification will be performed by Liège PA&S.
 - o Downingtown Engineering and PA&S.
 - o Liège Sustaining Engineering.
- Some of the projects forecasted:
 - o New enclosures, (C-BOX, E-BOX).
 - o Artwork recycle.
 - o Replacement of 64 K RAM by 256 K RAM.

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3.0 RECOMMENDATION

As a response to CER 1470 , we propose to accelerate the release and the qualification of the QUAD-2 ADAPTER "BYTE ORIENTED" version.

The QUAD-II adapter is being developed to overcome the performance deficiencies of the QUAD-I , and to combine the functions of the QUAD-I (byte oriented) and the DUAL BDLC (bit oriented) adapters into a single B1990 card.

This adapter will more than double the performance of the existing QUAD-I and also provide WIDEBAND capability for B1990 customer (see PAR 4.0).

For the CER 1470 , we propose to release only the byte oriented discipline (like QUAD-I)with the ADO capability.

This approach was chosen because the QUAD-I hardware was not designed to provide ADO capability.

Trying to modify the QUAD-I to provide ADO capability would create several disadvantages:

- o The QUAD-I would lose one data line for each ACU.
- o The firmware, system software and cabling would be "KLUGE" and therefore very difficult to maintain.
- o QUAD-I ADAPTER does not meet the performance specification of the B1990 datacom.
- o Qualification of all datacom functions would be required anyway.

AUTO DATA WITH 768 A/DAL.

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4.0 QUAD ADAPTER - II

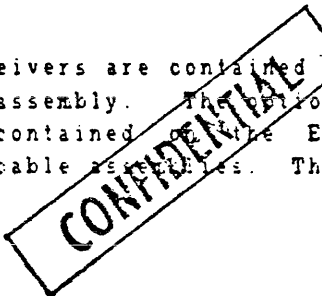
The QUAD-II ADAPTER will be a high performance multiprotocol adapter. It will combine the functions of actual QUAD-I (byte oriented) and DUAL EDLC (bit oriented) adapters.

It will improve the actual adapter performance and provide new features.

4.1 ADAPTER CHARACTERISTICS COMPARISON

4.1.1. ELECTRICAL INTERFACES COMPARISON QUAD-2 VS QUAD-1

The line drivers / receivers are contained in the interface logic of the Multipro assembly. The pin on jumpers and some terminating logic are contained on the EMI logic boards, which are part of the cable assemblies. The following interfaces are supported



```

=====
!!INTERFACE ONLINE * >!!  L0  !! L1  !! L2  !! L3  !!          !
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!IS AVAILAELE ON >>!! Q1 Q2 !! Q1 Q2 !! Q1 Q2 !! Q1 Q2 !!QUAD 1 OR2!
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!Burroughs TWDI      !! Y  Y  !! Y  Y  !! Y  Y  !! Y  Y  !!          !
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!RS 232C             !! Y  Y  !! Y  Y  !! Y  Y  !! Y  Y  !!          !
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!RS 423C             !! N  A  !! N  A  !! N  A  !! N  A  !!          !
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!RS 423              !! N  A  !! N  A  !! N  A  !! N  A  !!          !
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!V.35                !! N  N  !! N  A  !! N  N  !! N  A  !! 2 lines !
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!RS368 801ACU       !! N  Y* !! N  Y* !! N  Y* !! N  Y* !! *2MAX/ADP!
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!Burroughs dial     !! Y  Y  !! Y  Y  !! Y  Y  !! Y  Y  !!if not ACU!
!!-----!!-----!!-----!!-----!!-----!!-----!!
!!NR21                !! N  A  !! N  A  !! N  A  !! N  A  !!          !
=====
  
```

Q1 QUAD-ADAPTER-I
 Q2 QUAD-ADAPTER-II

Y = yes
 N = no
 A = available but not released for CER 1470.

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4.1.2. PERFORMANCE COMPARISON ESTIMATES QUAD-2 VS QUAD-1

```

+-----+
| PARAMETER  | LINES | QUAD-2 | QUAD-1 | REMARKS |
+-----+-----+-----+-----+-----+
| TDI ASYNC  | 4     | 38.4 KB | 9.6 KB | Q-2 = 4 TIMES |
|            |       |         |         | PERFORMANCE OF Q-1 |
+-----+-----+-----+-----+-----+
| ALL QUAD-1 | 4     | 19.2 KB | 9.6 KB | QUAD-1 DOES NOT MEET |
| DISCIPLINES |       | RS232 |         | THE SPEC ON 4 LINES |
+-----+-----+-----+-----+-----+
| WIDEBAND   | 2     | 64 KB   | not    | very probable but not |
| HDX        |       | *       | avail  | yet guaranteed        |
+-----+-----+-----+-----+-----+
  
```

*: Available but not released in RS-232C 1470. WIDEBAND capability requires qualification of RS-232C 1470 electrical interfaces.

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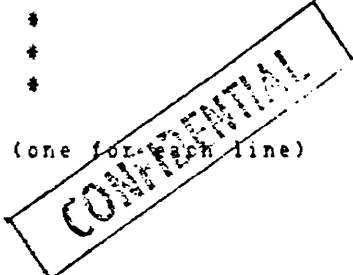
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5. HARDWARE DEVELOPMENT

- o The QUAD-II adapter is designed on a single B1990 size board.
- o It will be compatible with the MLC 4, the actual QUAD-I and DUAL EDLC ADAPTER to allow easy upgrade of B1990 customer base.

5.1. Technical characteristics:

- o 4 datacom lines.
- o Multi-microprocessor (8088-2) architecture.
 - . One pipeline micro processor.
 - . Two independant line micro processors. (One for two datacom lines).
- o Electrical interfaces.
 - BURROUGHS TDI.
 - RS 232-C
 - RS366 (AUTO DIAL OUT)
 - RS 422 *
 - RS 423 *
 - V.35. *
- o Interface cables (one for each line)
 - . RS232/RS366
 - . TDI
 - . RS422 *
 - . RS423 *
 - . V.35 * (*: not released for CER 1470)
- o On board electrical interface selection is realized by interface cable selection and interface cable option jumpers. This approach simplifies installation and maintenance procedure and allow line reconfiguration without removing the adapter assembly. This approach allows greater flexibility for pricing high performances and special interface
- o One line per line processor supports the RS 366 interface allowing a total of two ACU (auto call unit) per adapter. The other two lines may be used for TDI or non 301 ACU MODEMS



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- o Down loaded firmware from the host.

Each line runs an unique firmware tailored to the line discipline.

5.2. Low cost adapter.

- o Two lines architecture
 - One pipe line micro process
 - One line micro processor driving two datacom lines (and one ACU).
- o The above configuration could be used as an economic approach for restricted applications.

CONFIDENTIAL

B1000 SYSTEM SUPPORT LETTER NO. 48

SUBJECT: B1990 MACII STANDALONE UTILITY DISKETTE

1 - B1990/ET1100 ODT CONFIGURATION

A B1990 system equipped a console diskette drive (including the H10-card) and an ET1100 system ODT requires a change in the ET1100 configuration parameter DCOM BUFFER. This must be increased from the default value of 2048 to 2815 or ODT screen truncation will result.

2 - STANDALONE UTILITY DISKETTE DUPLICATION

A B1000 standalone utility diskette may be duplicated on an ET2000 equipped with a TP424 800KB dual disk drive. Use the MS-DOS utility "DISKCOPY" which does a sector by sector copy of the input diskette. The H10-card firmware file, SYSO.SYS, must be the first file on a B1000 standalone utility diskette and "DISKCOPY" will retain the correct order from the input release diskette to the output diskette. Refer to the ET2000 System Software Operation Guide for "DISKCOPY" operation instructions.

3 - STANDALONE UTILITY DISKETTE CREATION

The B1990 system cannot write to the console diskette drive. The creation of a B1990 standalone utility diskette requires the use of an ET2000 terminal equipped with a TP424 800KB disk drive and the HOSTLINK software package. Following is the sequence of events used to create standalone utility diskettes. This is not a released or a supported feature and is included here only for information purposes.

The release levels used are: B1000 Mark 12.0.0 System Software, ET2000 MS-DOS version 2.11, HOSTLINK version 2.2.1, and Patch 12.0.1 to SSLOAD/MAKCAS.

PROPRIETARY DATA

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And BMG Communications Code FMM 3, 4, 50

For the following sequence of events it is assumed that the HOSTLINK system has already been installed on the B1990 and ET2000 systems and the user is familiar with it's operation. Refer to the Small System Host-Link Server Operations Guide, document 1166964. For each step the action specified is performed at the location as follows: "ODT" the B1000 system ODT or remote ODT, "MT" the ET2000 Miniterm attached to SMCS (refer to the ET2000 SOG - appendix I), and "MS" is the ET2000 MS-DOS system.

- | | <u>Location</u> | <u>Action</u> |
|----|-----------------|---|
| 1. | MT | Activate the ET2000 Miniterm and attach to B1000 SMCS. |
| 2. | MT | Enter "ON HOSTLINK". This displays "SIGNED ON ...". |
| 3. | MT | Enter "HELP". This displays the HOSTLINK commands: "HLINFO, HLLOAD, HLDUMP, HLDELETE". |
| 4. | MS | Insert the diskette containing the ET2000 HOSTLINK programs and make this the default drive. |
| 5. | MS | Enter "HLSTART <usercode>/<password>". This displays: "Version 2.2.1 Session Started - Welcome to Host-Link". |
| 6. | MS | If necessary, enter "HLCREATE <volume-id>" to create the pseudo MS-DOS disk on the B1000. |
| 7. | MS | Enter "HLMOUNT C: <volume-id>" to mount the pseudo MS-DOS disk C on the B1000. This displays: "Volume Mounted". |
| 8. | ODT | Create the B1000 "FDISK" files with SSLOAD/MAKCAS. |

Examples:

To create the CLEAR/START "FDISK" file enter:
"EX SSLOAD/MAKCAS; SW 2 0; SW 3 1; AXCLEAR/START; AX".

To create a standalone program "FDISK" file enter:
"EX SSLOAD/MAKCAS; SW 2 1; SW 3 1; AX<file name>; AX".

This produces the default "FDISK" files as shown in the table on the following page.

B1000 STANDALONE UTILITY DEFAULT FILE NAMES

B1000 File Input to SSLOAD/MAKCAS	B1000 "FDISK" File Output of SSLOAD/MAKCAS	MS-DOS/Pseudo Disk File Name
CLEAR/START	CLEAR/FD-START	CLRSTART.MTR
PACK/INIT	PACK/FD-INIT	PACKINIT.MTR
COLDSTART/DISK	COLDSTART/FD-DISK	COLDDISK.MTR
COLDSTART/TAPE	COLDSTART/FD-TAPE	COLDTAPE.MTR
STANDALONE/DISK-DUMP	STANDALONE/FD-DISK-DU	SADKDUMP.MTR
DISK/DUMP	DISK/FD-DUMP	DISKDUMP.MTR

Location Action

9. MT Load the "FDISK" file to pseudo disk C. Enter:
"HLLOAD <FDISK filename> TO <MS-DOS filename> ON C B".
Note: the final "B" is required.
10. MS Insert a formatted diskette into an ET2000 disk drive,
this will become the B1000 standalone utility diskette.
11. MS Copy the H10-card firmware file, SYS0.SYS, from another
(release) B1000 standalone utility diskette. Be sure
this file is the first file on the diskette.
12. MS For each utility; copy the B1000 standalone utility file
from pseudo disk C to the formatted diskette. Enter:
"COPY C:<MS-DOS filename> <drive>:<MS-DOS filename>".

Be sure to insert the new standalone utility diskette into the B1000 console diskette drive and test each utility program. Refer to the B1000 SOGII for operating instructions.