MAP 1800: Expansion Unit

Symptom Explanation	Conditions That Could Cause This Symptom
You have entered this MAP because you received a 18XX error code, or you have been directed here from another MAP.	• The extender card is failing. • The receiver card is failing. • The power supply is failing. • A fixed disk drive is failing.

001
(From Step 006 in this MAP)
- Check that all cable connectors are seated correctly.
- Insert the Advanced Diagnostics diskette into drive A.
- Power on the system.
- Disregard an 1801 error code and continue with the POST.
- Run the Expansion Option tests. Use the **(RUN TESTS ONE TIME)** option.

DID YOU RECEIVE AN 18XX ERROR MESSAGE?
Yes **No**

002
You have successfully completed the Advanced Diagnostics tests. If you suspect an intermittent problem, start an error log. If you need instructions, refer to the Reference manual.

003
DID YOU RECEIVE AN 1819 ERROR CODE?
Yes **No**

004
Go to Step 008 in this MAP.

(Step 005 continues)

Voltage (Vdc)		Pins	
Minimum	Maximum	−Lead	+Lead
+2.4	+5.2	5	1
+4.8	+5.2	5	10

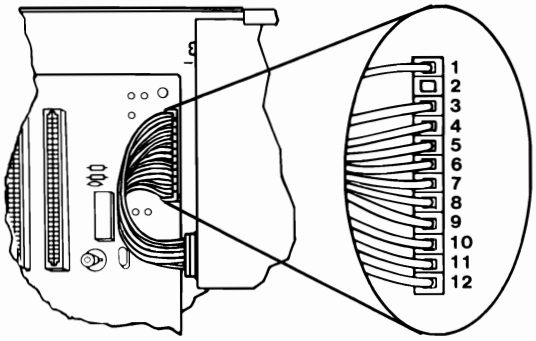

Figure 2. Expansion Board Power Connecters

ARE THE VOLTAGES CORRECT?

Yes **No**

016
Go to Step 018 in this MAP.

017
Replace the receiver card.

018
(From Step 016 in this MAP)
- Power off the system.
- Disconnect the power connectors from the fixed disk drives.
- Power on the system.
- Check the voltages at the expansion board power connector, refer to Figure 3 on page 1800-5.

Voltage (Vdc)		Pins	
Minimum	Maximum	−Lead	+Lead
+2.4	+5.2	5	1
+4.8	+5.2	5	10

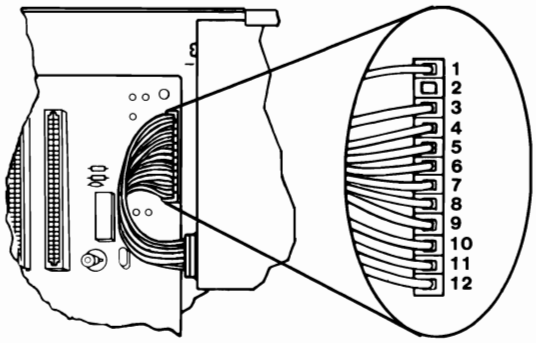

Figure 3. Expansion Board Power Connecters

ARE THE VOLTAGES CORRECT?

Yes **No**

019
Go to Step 021 in this MAP.

020
- Power off the system.
- Reconnect one fixed disk drive at a time until the symptom returns.

Replace the failing fixed disk drive.

021
(From Step 019 in this MAP)
- Remove the receiver card from the Expansion Unit.
- Check the voltages at the expansion board power connector, refer to Figure 3.

ARE THE VOLTAGES CORRECT?

Yes **No**

(Step 022 continues)

022
Go to Step 024 in this MAP.

023
Replace the receiver card.

024
(From Step 022 in this MAP)
- Power off the system.
- Ensure all option adapters are removed from the expansion unit, including the receiver card.
- Disconnect the expansion board power connectors and take resistance measurements on the expansion board pins listed in Figure 4.

Pins		Minimum
−Lead	+Lead	Resistance
5	3	50 Ohms
6	4	50 Ohms
7	9	50 Ohms
8	10	50 Ohms
8	11	50 Ohms
8	12	50 Ohms

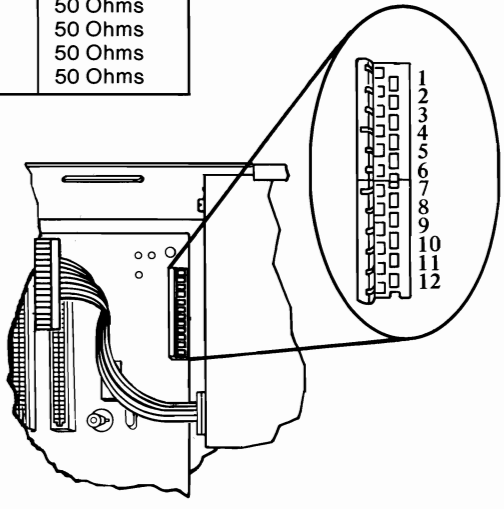

Figure 4. Resistance Check

ARE ANY OF THE RESISTANCES BELOW THE MINIMUM INDICATED IN THE CHART?
Yes **No**

(Step 025 continues)

025
Replace the power supply.

026
Replace the expansion board.

027
(From Steps 014 and 028 in this MAP)
- Power off the system.
- Install one option adapter.
- Power on the system.
- Insert the Advanced Diagnostics diskette into drive A.
- Power on the system.
- Disregard an 1801 error code and continue with the POST.
- Run the Expansion Option tests. Use the **(RUN TESTS ONE TIME)** option.

DID THE SYMPTOM RETURN?

Yes **No**

028
Repeat Step 027 in this MAP until the failing symptom returns. Replace the adapter that causes the symptom.

029
Replace the last adapter installed.

Notes: