

Minimize the Time Power is Off

During the Checks and Adjustments procedure you will be asked to change plug-in units and install or remove the top and bottom covers. Both of these tasks require a power-down with the ON/STANDBY switch. You should try to keep the power-off time to a minimum in order to reduce the internal temperature change. The oscilloscope accuracy is adversely affected by internal changes in temperature. In normal operation, Enhanced Accuracy is available only after a 20 minute warm-up period. This requirement is defeated during the procedure to accelerate the execution time, but care should be taken to minimize the power-off time.

When moving plug-in units, a quick transfer (i.e., about 15 seconds) and power-up will essentially preserve the internal temperature and the Enhanced Accuracy state. Disconnect any cables or probes before beginning a plug-in unit move. An excessive delay in powering-up (beyond 30 seconds) will mean a warm-up period is necessary.

Test Equipment

Table 2-1 contains suggested test equipment for use with the Checks and Adjustment procedure. Procedure steps are based on the test equipment examples given, but other equipment with similar specifications may be substituted. However, using other equipment could alter the test results, the setup information, or the related connectors and adapters required.

RS-232 Cable Requirements

The RS-232 cable that connects the PC COM1 port with the 11301A Oscilloscope under test should be a standard controller-to-modem (DCE-DTE) type cable. The type of RS-232 connector your PC has will determine the type of connectors your cable must have. The two most common connectors are the 25-pin D type and the 9-pin D type. The 25-pin to 25-pin cable should at least have pins 2-2, 3-3, 4,-4, 5-5, 7-7, 8-8, and 20-20 connected. The 9-pin to 25-pin RS-232 cable should be wired as follows:

9-Pin Connector	25-Pin Connector
1 (DCD)	8 (DCD)
2 (RD)	3 (RD)
3 (TD)	2 (TD)
4 (DTR)	20 (DTR)
5 (Sig GND)	7 (Sig GND)
6 (DSR)	6 (DSR)
7 (RTS)	4 (RTS)
8 (CTS)	5 (CTS)
9 (N.C.)	22 (RI)