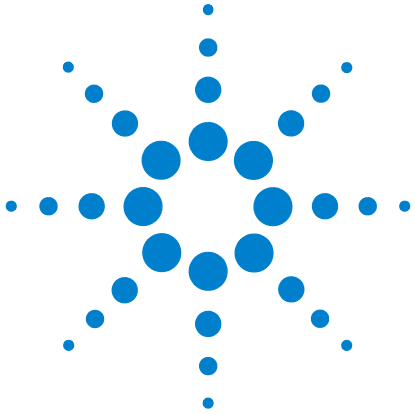

Agilent TS-8900 Functional Test System

Site Preparation and Installation Guide

Agilent Technologies

Notices

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Legal Information

Warranty

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Service And Support

Any adjustment, maintenance, or repair of this product must be performed by qualified personnel. Contact your customer engineer through your local Agilent Technologies Service Center.

Agilent On The Web

You can find information about technical and professional services, product support, and equipment repair and service on the Web: **http://www.agilent.com/**

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Manufacturing Address

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Malaysia.

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Safety Information

Safety Summary

The following general safety precautions must be observed during all phases of operation of this instrument. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the instrument. Agilent Technologies, Inc. assumes no liability for the customer's failure to comply with these requirements.

Safety Notice

CAUTION A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like, that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met.

WARNING **A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.**

General

This product is provided with a protective earth terminal. The protective features of this product may be impaired if it is used in a manner not specified in the operation instructions.

WARNING **DO NOT OPERATE IN AN EXPLOSIVE ATMOSPHERE. Do not operate the product in the presence of flammable gases or flames.**

WARNING **DO NOT REMOVE RACK PANELS OR INSTRUMENT COVERS. Operating personnel must not remove any rack panels or instrument covers. Component replacement and internal adjustments must be made only by qualified service personnel. Products that appear damaged or defective should be made inoperative and secured against unintended operation until they can be repaired by a qualified service personnel.**

WARNING **The protection provided by the TS-8900 system may be impaired if the system is used in a manner not specified by Agilent.**

Environmental Conditions

The TS-8900 Functional Test System is designed for indoor use only. **Table 2-1** shows general environmental requirements.

Table 2-1 Environment Requirements

Environment Conditions	Requirements
Maximum Altitude	2000 meters
Temperature (Operation)	5 ° C to 40 ° C
Maximum Relative Humidity	The test system is designed to operate in the range from 5% to 80% relative humidity (non-condensing).

CAUTION This product is designed for use in Installation Category II and Pollution Degree 2, per IEC 61010-1 and 664 respectively.

Before Applying Power

Verify that the product is set to match the available line voltage and all safety precautions are taken. Note the external markings of the instruments described in **"Safety Symbols and Regulatory Markings".**

Operator Safety Information

WARNING **Module connectors and Test Signal cables connected to them cannot be operator accessible.**

Cables and connectors are considered inaccessible if a tool (e.g. screwdriver, wrench, socket, etc.) or a key (equipment in a locked cabinet) is required to gain access to a conductive surface connected to any cable conductor (High, Low or Guard).

WARNING **Assure the equipment under test has adequate insulation between the cable connections and any operator-accessible parts (doors, covers, panels shields, cases, cabinets, etc.)**

Verify there are multiple and sufficient protective means (rated for the voltages you are applying) to assure the operator will NOT come into contact with any energized conductor even if one of the protective means fails to work as intended.

For example, the inner side of a case, cabinet, door cover or panel can be covered with an insulating material as well as routing the test cables to the front panel connectors of the module through non-conductive, flexible conduit such as that used in electrical power distribution.

Safety Symbols and Regulatory Markings

Symbols and markings on the system, in manuals and on instruments alert you to potential risks, provide information about conditions, and comply with international regulations. Table 2-2 defines the symbols and markings you may find in a manual or on an instrument.

Table 2-2 Safety Symbols and Regulatory Markings

Safety symbols	
	Warning: risk of electric shock.
	Warning: hot surface.
	Caution: refer to accompanying documents.
	Laser radiation symbol: marked on products that have a laser output.
	Alternating current.
	Both direct and alternating current.
	Three-phase alternating current.
	Earth (ground) terminal.
	Protective earth (ground) terminal.
	Frame or chassis terminal.
	Terminal is at earth potential. Used for measurement and control circuits designed to be operated with one terminal at earth potential.
N	Terminal for neutral conductor on permanently installed equipment.
L	Terminal for line conductor on permanently installed equipment.

Safety symbols	
	Standby (supply); units with this symbol are not completely disconnected from ac mains when this switch is off. To completely disconnect the unit from ac mains, either disconnect the power cord, or have a qualified electrician install an external switch.
Regulatory markings	
	The CE mark is a registered trademark of the European Community. If it is accompanied by a year, it indicates the year the design was proven.
	The CSA mark is a registered trademark of the CSA International.
	The C-tick mark is a registered trademark of the Spectrum Management Agency of Australia. This signifies compliance with the Australian EMC Framework regulations under the terms of the Radio Communications Act of 1992.
ISM - 1A	This text indicates that the instrument is an Industrial Scientific and Medical Group 1 Class A product (CISPER 11, Clause 4).
	This symbol indicates separate collection for electrical and electronic equipment, mandated under EU law as of August 13, 2005. All electric and electronic equipment are required to be separated from normal waste for disposal (Reference WEEE Directive, 2002/96/EC).
	This symbol indicates the time period during which no hazardous or toxic substance elements are expected to leak or deteriorate during normal use. Forty years is the expected useful life of the product.

Declaration of Conformity

The Declaration of Conformity (DoC) for this product is available on the Agilent Technologies website. You can search for the DoC by its product model or description at the following web address:

http://regulations.corporate.agilent.com/DoC/search.htm

NOTE If you are unable to locate the DoC, please contact your local Agilent representative.

Electrostatic Discharge (ESD) Precautions

Static electricity is destructive to your production process and the TS-8900. Careless handling and poor site planning can cause system reliability problems and reduce your product yield. The system may not be as easily damaged as the modules you will be testing, but good anti-static planning will help ensure high reliability.

The ESD symbol below indicates areas where ESD caution must be exercised. This is to prevent damage to instruments and/or test disruption.

ESD Symbol	
	**Caution: Static Sensitive**. Electrostatic discharge in this area may cause equipment damage or test disruption.

While not an exhaustive list of anti-static precautions, Table 2-3 shows suggestions to consider as you plan your system area:

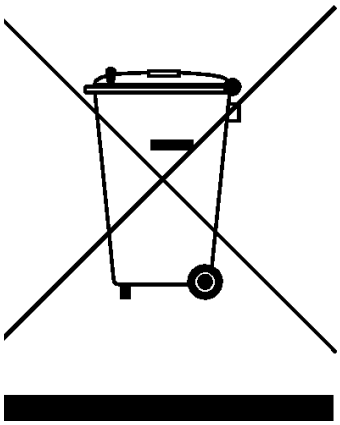
Table 2-3 Suggested Anti-Static Solutions for Site Planning

Precaution	Suggested Solution
Anti-static flooring	Plan to use an anti-static floor covering or mats.
Grounding straps	Plan for foot straps in conjunction with anti-static flooring and wrist straps for system operators.

CAUTION The system test rack is secured to the pallet of the shipping crate and wrapped with a plastic wrap. Do not move the crate or the test rack and pallet to a static sensitive area until you have removed the plastic wrap from the test rack.

End of Life: Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC

This product complies with the WEEE Directive (2002/96/EC) marking requirement. The affixed product label (see below) indicates that you must not discard this electrical/electronic product in domestic household waste.



Product Category:

With reference to the equipment types in the WEEE directive Annex 1, this product is classified as a “Monitoring and Control Instrumentation” product.

Do not dispose in domestic household waste

To return unwanted products, contact your local Agilent office, or see:

http://www.agilent.com/environment/product

for more information.

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Preparing Your Site for the System

WARNING

No operator serviceable parts inside. Refer servicing to qualified personnel. To prevent electrical shock do not remove instrument covers.

The protection provided by the TS-8900 system may be impaired if the system is used in a manner not specified by Agilent.

Typical System

Figure 3-1 shows a typical hardware configuration of the TS-8900 Functional Test system.

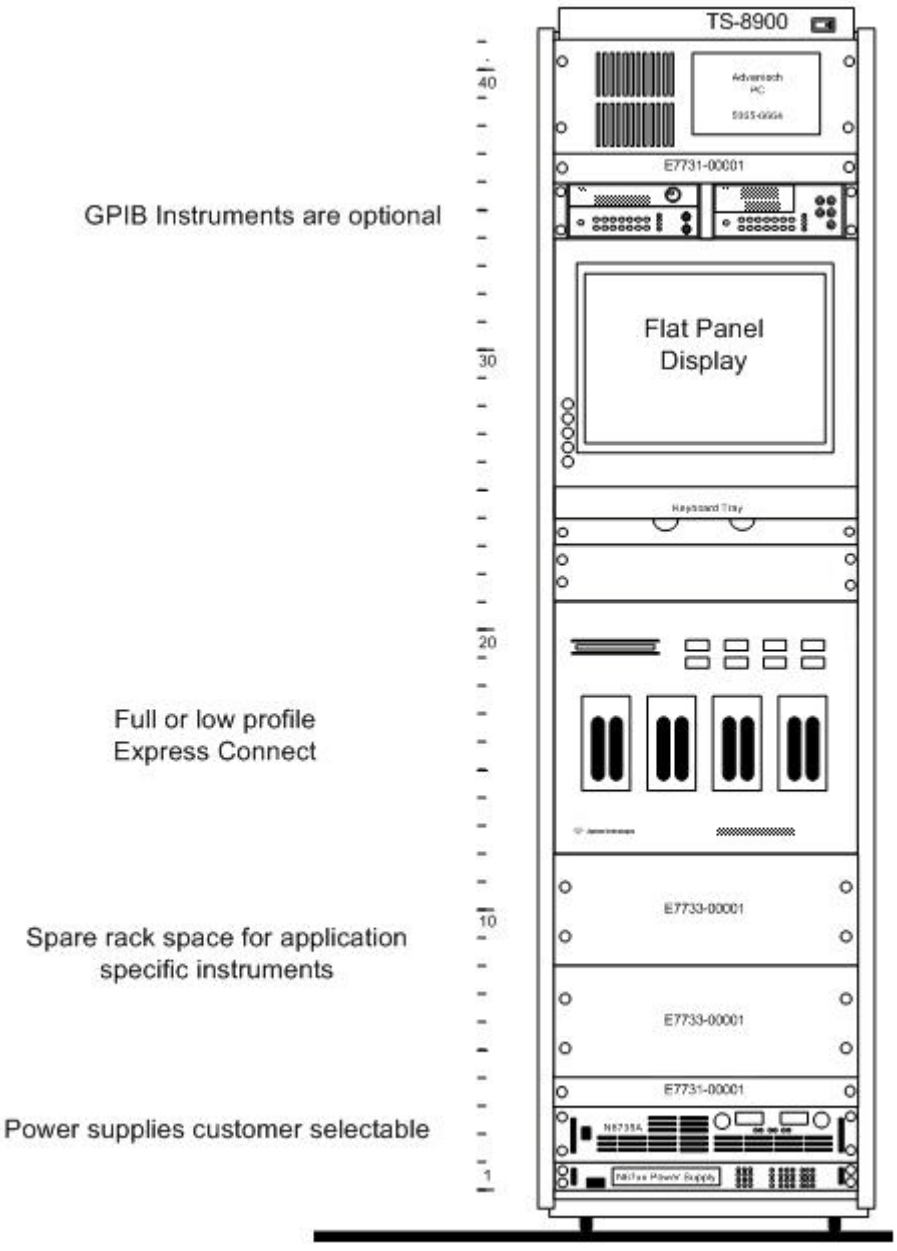

Figure 3-1 TS-8900 Functional Tests System

System Dimensions

Table 3-1 shows rack dimensions for the primary rack only.

Table 3-1 Primary Rack Dimensions

Size	No. of Bays per Pallet	Height	Width	Depth	Estimated Weight
1.6m	1	1616mm (63.62 in.)	600 mm (23.6 in.)	905 mm (35.6 in.)	600 lbs
2.0m	1	2020mm (79.5 in.)	600mm (23.6 in.)	905mm (35.6 in.)	600 lbs

System Plan Drawing

A system plan diagram should be used for all aspects of site preparation. A complete drawing details power availability, communications cabling, and system placement with respect to other equipment. It can also serve to verify physical access.

Figure 3-2 shows a recommended layout for a typical TS-8900 Functional Test System. Allow 1 meter (3.3 feet of space) behind the system for service.

WARNING **The Remote ON/Standby switch at the upper right-hand corner of the system rack turns off all equipment. The Main ON/OFF switch is located on the Agilent E1135C Power Distribution Unit (PDU), located behind the rear cabinet door of the system (see Figure 3-3). ALWAYS allow 1 meter (3.3 feet of space) behind the system to be able to access the ON/OFF switch at the rear of the E1135C PDU.**

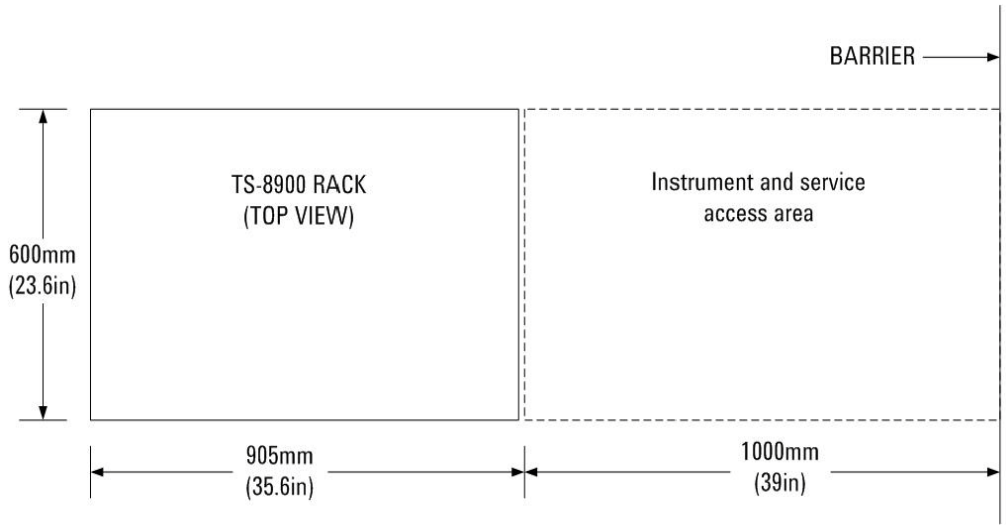

Figure 3-2 Recommended TS-8900 Functional Test System Layout (overhead view)

System Power Requirements

This section describes the electrical power requirements of the Agilent TS-8900 Functional Test System using the Agilent E1135C Power Distribution Unit (PDU). It also describes how to connect AC mains power to the system. Figure 3-3 shows the location of the power distribution unit in your system.

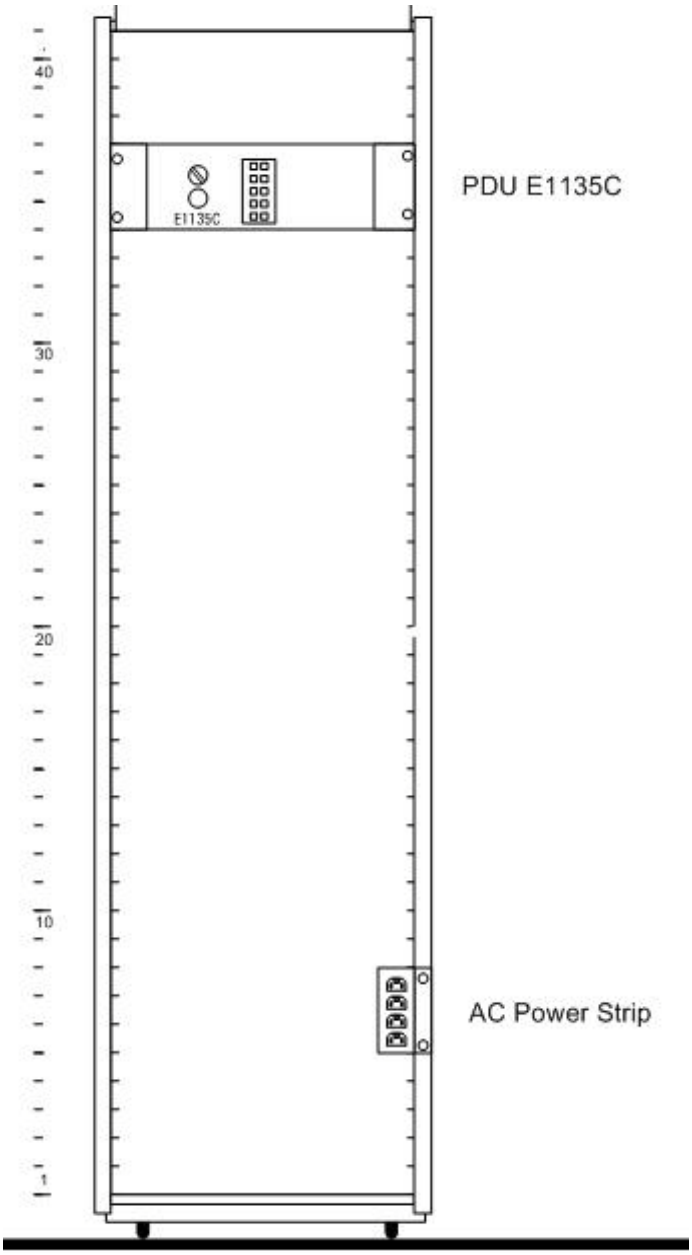

Figure 3-3 Rear View of The TS-8900 Functional Test System

Minimum Power Requirements

The TS-8900 system requires the following:

1. AC mains power must be supplied to the system's Agilent E1135C Power Distribution Unit (PDU).
2. The system is powered by 208 to 220Vac or 380 to 415Vac, 50/60Hz, 3 phase.
3. Customer must supply a power cord for all systems and power options. Use power cord with wire gauge specification meeting product rating.
4. Ensure the same rating or higher for plug and terminal lug (for connection to PDU) as product rating.
5. The power cord must be wired by a qualified electrician.
6. For the Agilent E1135C Power Distribution Unit, a jumper wire may need to be installed for some power options.

Power Recommendations

- Provide a separate AC mains for the system due to the current requirements of the system.
- Use copper wire for the system drop between the AC source and system.
- For Agilent E1135C PDU, a jumper wire may need to be installed for some options. This PDU has a mains disconnect switch that serves as master power for the entire rack.
- The power service may have a mains disconnect installed adjacent to the system to quickly remove power in case of emergency (see “Mains Disconnect Requirements” for more information).
- On the E1135C PDU is a 25.4mm (1in) hole to install a cable clamp and power cord. Use a power cord with a locking plug (one that cannot be easily pulled from its outlet) or hard-wire the system to the AC power. Customer is to provide both cable and strain relief (see Figure 3-4).
- To avoid electric shock, physically remove the mains plug from the power outlet before servicing.

CAUTION Verify the AC source and that service conductors are sized correctly before connecting the system.

WARNING **Electrical Shock Hazard Protection. This is a Safety Class 1 Product (provided with a protective earthing ground incorporated in the power cord). The mains plug shall be inserted into only a socket outlet provided with a protective earth contact.**

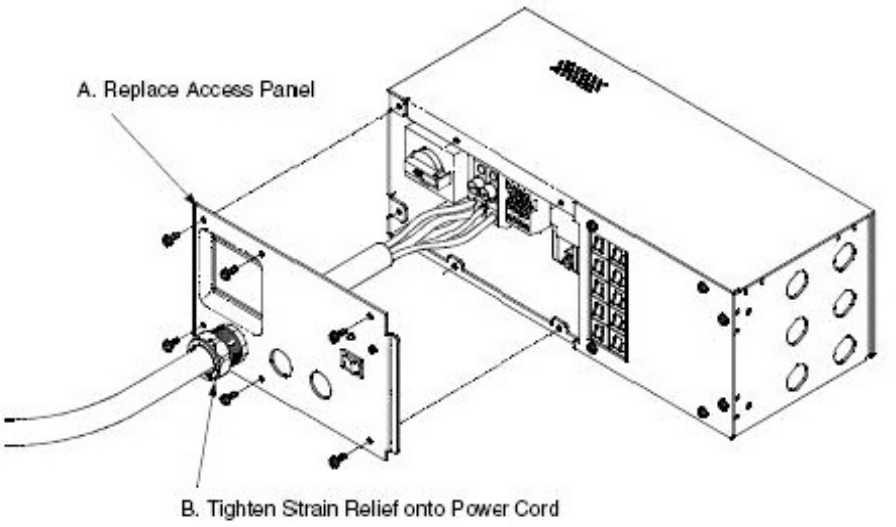

Figure 3-4 E1135C Power Cord Installation

Additional Power Information

- Conventional 50/60-hertz current probes cannot make accurate input current measurements of the system's power supplies due to the harmonics on the currents. A current measuring instrument needs a bandwidth that is above 10 kHz. Improper instruments may yield results that are 50 percent less than actual.
- For the E1135C, system input power connections on the PDU are made to an input connector block and the ground connection to a terminal bolted to the chassis. Power is connected to the mains disconnect switch and a ground terminal attached to the chassis. For ease of installation, in areas where it meets local code requirements, use multi-strand wire from a AC mains to the PDU.

CAUTION For the E1135C, ten thermally-activated circuit breakers designer to protect the output terminal blocked are located on the front of the PDU. Under normal operation, a detected fault sets the rocker on the breaker to the open position. Reset the rocker by gently pushing it back in place. These breaker must not be opened by force or permanent damage can result. Damaged caused by intentionally opening the breaker is not covered by warranty.

Mains Disconnect Requirements

Although the Agilent PDU (E1135C) contains a mains disconnect switch, in some cases, the user may also want to install an external mains disconnect circuit breaker. Be sure the circuit breaker is adjacent to the equipment for easy access. Usual mounting is an approved enclosure on a floor-mounted pedestal.

Disconnect Circuit Breaker Requirements

The disconnect circuit breaker must be:

- Rated for the maximum system amperes.
- Approved for use in building installations in your locality,
- Marked "Mains Disconnect" or the equivalent in your local language.
- Marked for the "Off" position.
- Capable of locking in the "Off" position, but not in the "On" position.
- Open all phases and neutral conductors, but not the safety grounding conductor.

Mains Circuit Breaker Requirements

Requirements for the mains circuit breaker are the same as the “Disconnect Circuit Breaker Requirements” above plus the breaker must be rated a minimum 10,000 amperes interrupting capacity (AIC), for 100-240 V AC circuit, or 14,000 AIC for higher voltage circuit.

Site Configuration for AC Power

The following information is not required, but may save time and effort implementing this configuration when installing the system.

NOTE

The following requires that you:

1. Use a wire and not a conduit for the safety ground conductor.
2. Use the same size wire for all the neutral and ground as is used for the phase conductors.
3. Bond the neutral and the ground wires together at the transformer, and not at the breaker box or anywhere else.

Use the following information to configure your site:

Tap into the main AC power source of the building consisting of 208 to 220, 380 to 415 volts AC, 50/60 Hz.

Connect the power through a one-to-one or step-down transformer to the correct voltage for the system.

Important recommendations about wiring

- Make certain that the wire used for the neutral is the same size as the hot leads or larger.
- Do not rely on conduit for the ground; always use at least one wire for the ground-the more strands the better.
- Use the same lengths of wire for the phase conductors, the neutral, and the ground.
- It is extremely important that the neutral and ground be connected only at the transformer using an X-O bond.

Safety Ground Connection

As the Agilent TS-8900 is connected to the AC mains by means of a plug/socket connection, a permanent earth ground must be supplied to reduce the risk of electric shock.

Make a permanent connection from the system rack to protective earth ground. This connection will serve as a redundant Protective Earth Connection to the primary Protective Earth connection, which is part of the AC power cord. The "Earth (ground) terminal" found at the bottom of the system rack, see Figure 3-5, should be connected by a wire separate from the system AC power cord to the Protective Earth connection at the AC source where the system AC power cord is connected. The wire must be the same wire size as the protective conductor of the system AC power cord. The wire may be either a bare conductor or a green with yellow stripe insulated conductor.

The redundant Protective Earth connection wire shall have a correctly sized wire lug on both ends. The wire lugs shall also be sized to fit the "Earth (ground) terminal" stud or bolt as found on the system rack and for the Protective Earth connection at the source end of system AC power cord. In some cases, the Protective Earth connection at the source end of the system AC power cord will receive the conductor without a wire lug.

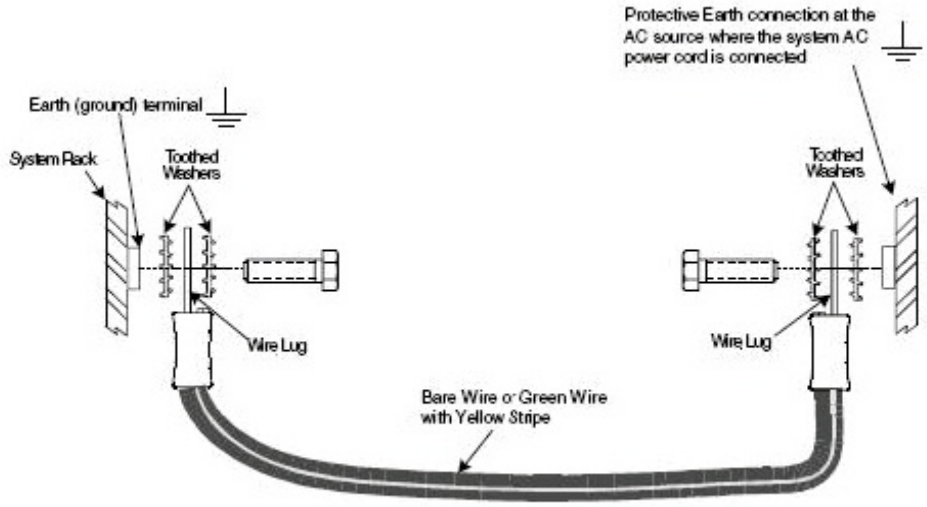

Figure 3-5 Safety Ground Connections

Ventilation

There is one set of 200 cfm extractor fans mounted towards the back at the top of the rack. To maintain proper airflow, keep the area directly above the fans as well as the intake air louvers on the back clear for a minimum of 1 meter (3.3 feet).

Cleaning Instructions

WARNING **To prevent electrical shock, disconnect the Agilent TS-8900 Automotive Electronics Functional Test System from mains before cleaning. Use a dry cloth or one slightly dampened with water to clean the external case parts. Do not attempt to clean internally.**

System Transportation Instructions

The system is shipped from the factory on one pallet with a few smaller boxes.

Ramp Requirements

The cabinet will negotiate ramps with inclines up to 8 degrees before the leveling feet drag on the floor when moved on its casters.

Hallway and Door Width Requirements

Make sure that all doors, elevators, and passageways enroute to the system's final location are large enough to allow passage of the crated system. The crated system requires the use of a floor jack or fork lift to engage the pallet and lift the crated system. Consider this when evaluating hallways, doors and elevators along the route the system must travel.

If the System Cannot be Moved in the Crate

If obstacles or lack of space restrict moving the crated system, remove the system from the pallet in the receiving area and push it on the cabinet casters to the final destination.

The system is equipped with four rack mounted casters for easy movement throughout the facility. Due to weight distribution of instrumentation, the system is most stable during movement when you push from the front with the back of the rack leading. Always push the rack in this front-to-back direction during movement. Avoid side-to-side or back to front movement except for final positioning.

WARNING **Deploying the rack from its shipping carton requires moving it in the Back- to-Front direction. NEVER stand directly in front of the rack when loading or unloading from a shipping carton.**

4 Installing The Keyboard, Mouse and Printer

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Tools Required

2 Phillips screwdriver

This chapter describes how to install the keyboard shelf, mouse tray and printer tray onto the Test Rack, how to connect the keyboard and mouse, and how to connect an optional strip printer.

NOTE Four captive nuts are installed on the front of the test rack to receive the keyboard shelf screws. These nuts are located immediately below the flat panel display. If you need to locate the shelf elsewhere, four additional captive nuts are included with the shelf kit.

Installation Procedure

Printer Tray

NOTE The following assume a right-hand mouse and left-hand printer arrangement. You can reverse this orientation if necessary.

Attach the printer tray to the keyboard shelf. Make sure that the two hooks engage the shelf and the bottom of the tray is inserted into the tab under the keyboard shelf.

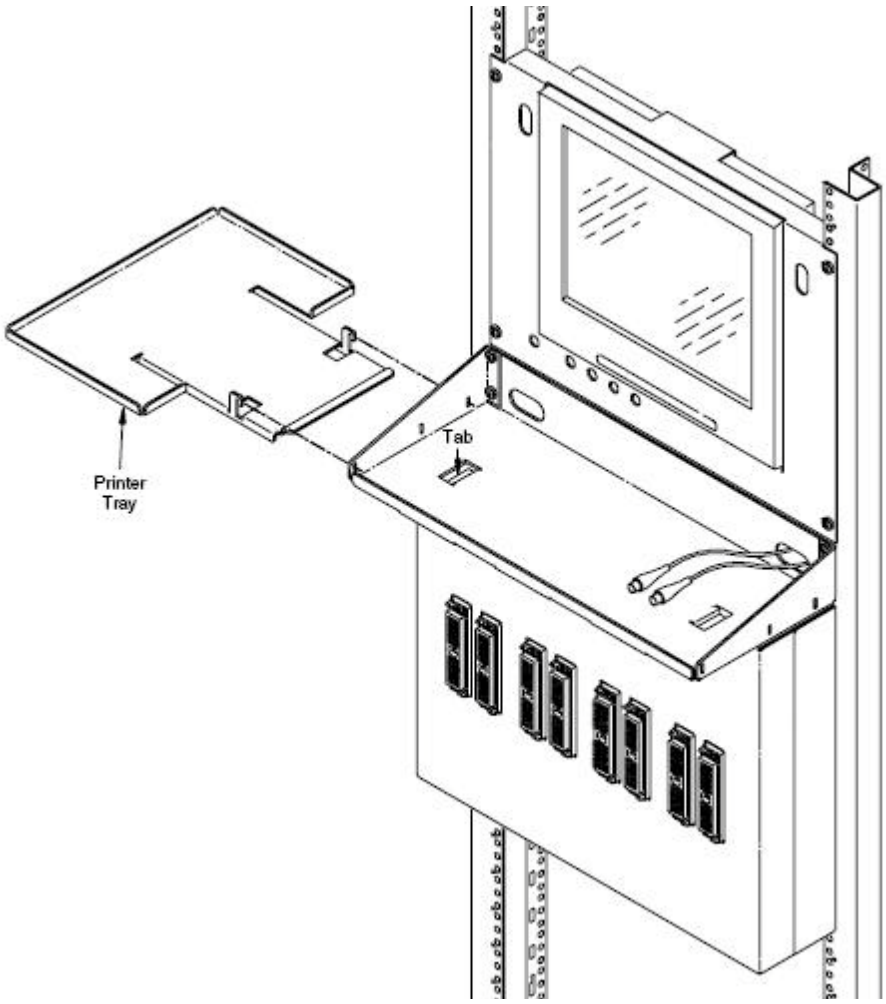

Figure 4-1 Attaching Printer Tray

Mouse Tray

Attach the mouse tray to the keyboard shelf. Make sure that the two hooks engage the shelf and the bottom of the tray is inserted into the tab under the keyboard shelf.

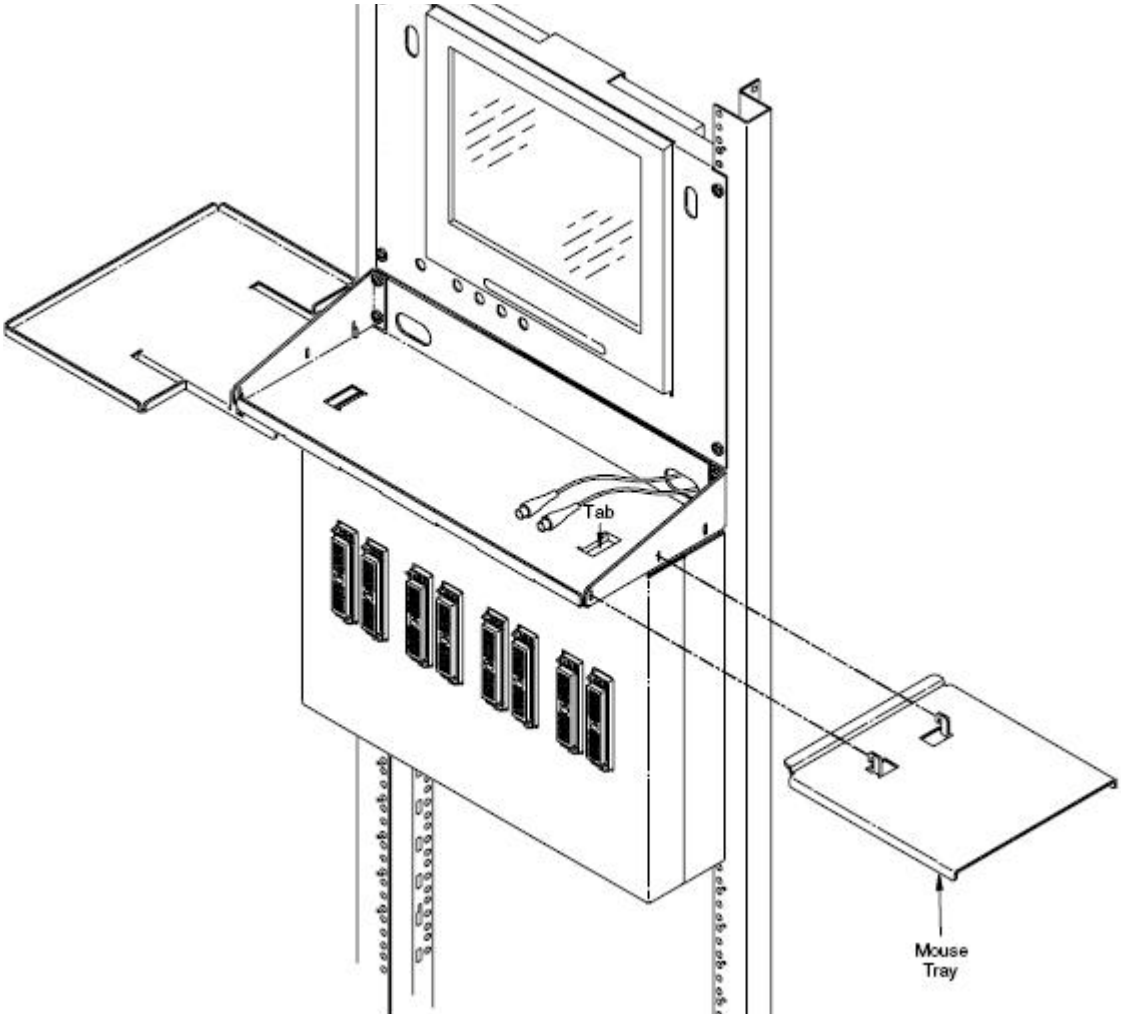

Figure 4-2 Attaching Mouse Tray

Palm Rest

Install the plastic palm rest by slipping it into the sots in the keyboard shelf.

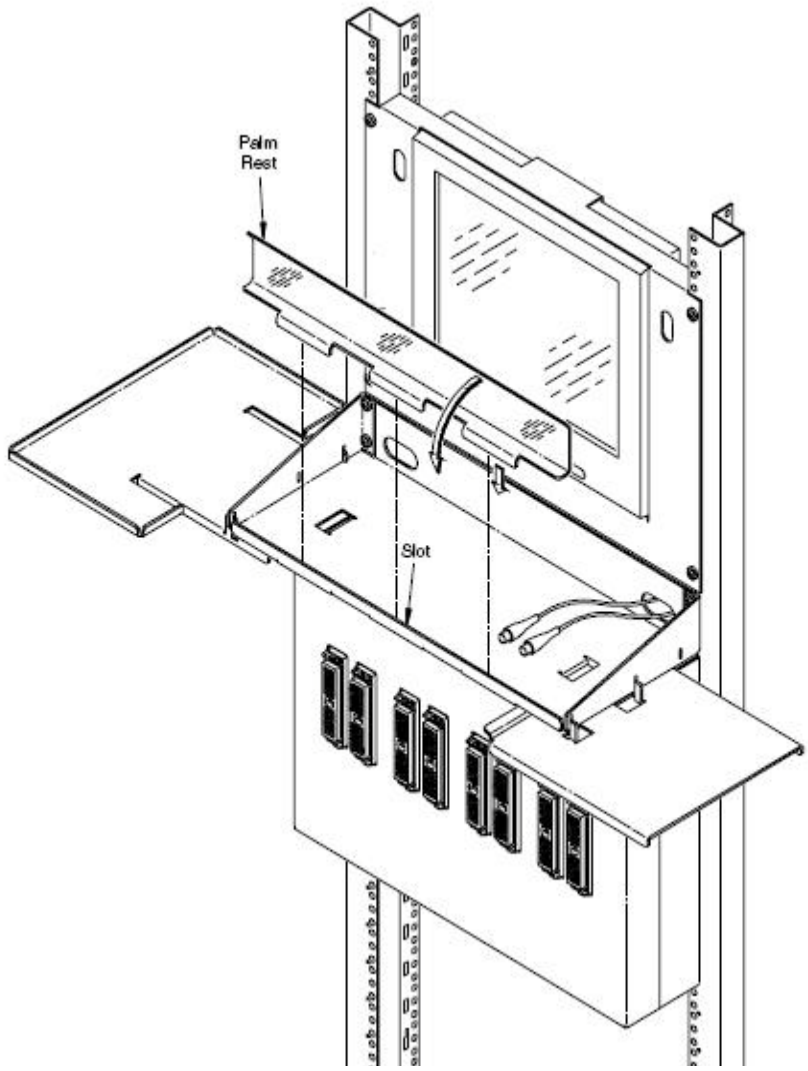

Figure 4-3 Installing Palm Rest

Connect Keyboard and Mouse

Connect the keyboard and mouse connectors to the extension cables (extension cables are labelled “Keyboard” and “Mouse”). Slide the excess cabling into the slot in the keyboard shelf.

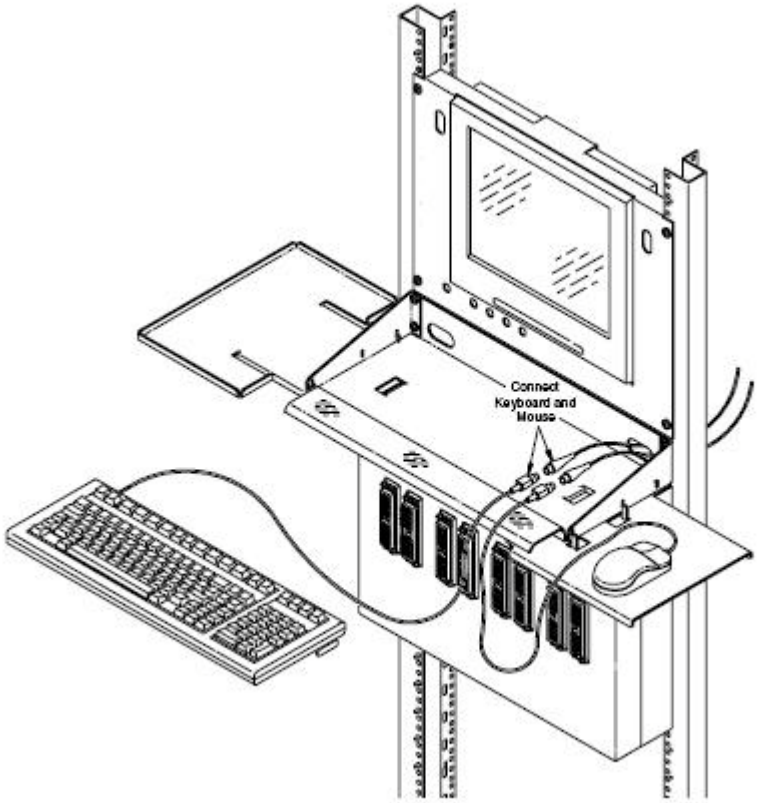

Figure 4-4 Connecting Keyboard and Mouse

If you have an optional Strip Printer (not provided by Agilent Technologies), connect its serial cable to one of the PC serial ports. Power (ac mains) is provided at the PDU. You can route the ac power cable through the holes underneath the Test System Interface to the back of the system rack.