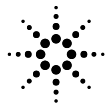


Operation Guide

Agilent E3190A PV Tool Set



Agilent Technologies

**Agilent Part No. E3190-90000
February 2000**

**Printed in Japan
Edition 3**

Product Warranty

Agilent Technologies warrants Agilent Technologies hardware, accessories and supplies against defects in materials and workmanship for the period of 90 days from the warranty start date specified below. If Agilent Technologies receives notice of such defects during the warranty period, Agilent Technologies will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or like-new.

For warranty service or repair, this product must be returned to a service facility designated by Agilent Technologies. Buyer shall prepay shipping charges to Agilent Technologies and Agilent Technologies shall pay shipping charges to return the product to Buyer. However, Buyer shall pay all shipping charges, duties, and taxes for products returned to Agilent Technologies from another country.

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Agilent Technologies Company certifies that this product met its published specifications at the time of shipment [from the factory]. Agilent Technologies further certifies that its calibration measurements are traceable to the National Institute of Standards and Technology (NIST), to the extent allowed by the Institute's calibration facility, and to the calibration facilities of other International Standards Organization members.

Printing History

The manual printing date and part number indicate its current edition. The printing date changes when a new edition is printed. (Minor corrections and updates which are incorporated at reprint do not cause the date to change.) The manual part number changes when extensive technical changes are incorporated.

First edition, November 1996

Second edition, April 1999

Third edition, February 2000

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1. Introduction

This operation guide covers the Agilent Technologies Model E3190A PV Tool Set.

The Agilent E3190A is designed to help you facilitate on-site performance verification of the Agilent 4071A and Agilent 4072A parametric testers and includes necessary equipment. To do the performance verification, the Agilent 3458A Digital Multimeter, the Agilent 16380A Standard Air Capacitor Set, the Agilent 16380C Capacitance Standard Set, and Agilent 16353A Standard Resistor Set are also required. To do the performance verification of the 4072A tester, the E3190A option 001 is required.



2. Contents of the Agilent E3190A

The E3190A consists of the items listed in table 1 and table 2 (option 001).

3. Carrying Case Layout

The layouts of the carrying cases are shown in figure 2 and figure 4 (option 001). Each item should be stored in the specified space as shown in the figures.

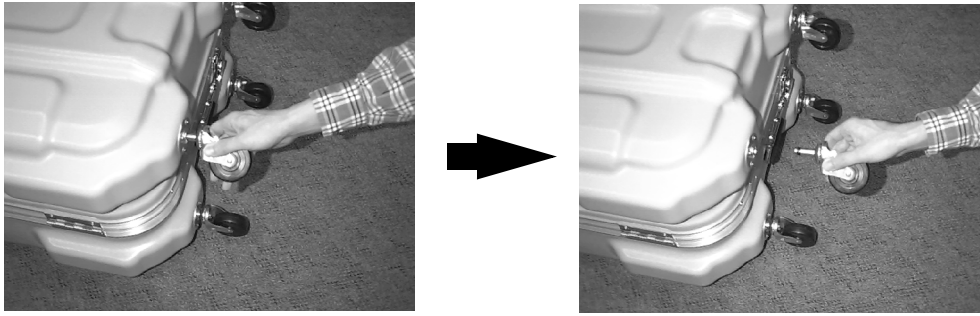
NOTE "Ref.No." in tables corresponds to the circled numbers in figures.

4. Special Instructions

4-1 Caster

When the E3190A is transported by transportation facilities, the caster should be put back in the fixed place as shown "A" in figure 2 and figure 4. Because there are any possibility to miss or damage the casters. You can easily put the caster to the carrying case as shown in figure 1. To remove it from the case, you pull the caster with more force.

Figure 1 Caster



4-2 Cleanliness

Since it is expected that the 4071A/4072A will be operated in the clean room, special care must be taken when handling items. Observe the following precautions:

- Clean all items with an airshower or other appropriate method before taking them into the clean room.
- Do not take the carrying case or the E3190A operation guide into the clean room. These items may contain excessive amounts of lint and dust, and may contaminate the clean room.

5. Calibration

The Agilent 42037A, included in the E3190A, must be calibrated at least once a year. When calibration is required, return it to Agilent Technologies service center for its calibration.

Table 1 Contents of the Agilent E3190A

Ref.No.	Part Number	Qty	Description
1	04142-61641	3	Triaxial Cable (1 m)
2	04155-65001	1	Calibration Adapter
3	04155-65002	1	Shorting Box for 04155-65001 Calibration Adapter
4	Agilent 11058A	2	Test Lead
5	1250-0595	2	Triaxial-to-BNC Adapter
6	1250-0781	3	BNC-T Adapter
7	1250-0929	2	BNC Shorting Cap
8	1250-2405	1	BNC-T Adapter
9	Agilent 42037A	1	1 kohm Standard Resister
10	8120-1840	2	BNC Cable (120 cm)
11	E3190-60001	1	PV Fixture Adapter
12	E3190-60002	1	PV Open Fixture
13	E3190-60003	1	PV Short Fixture
14	E3190-60004	1	PV Connection Fixture
15	E3190-60005	1	Short Adapter for Extended Path
16	E3190-60006	1	Shorting Box for C-STD Connection
17	E3190-60101	1	Carrying Case
18	E3190-61601	2	Cable for C-STD Connection
19	E3190-61603	2	BNC-Banana-Plug Cable
A	1492-0312	4	Caster (Note: 1492-0312 contains four casters.)

Figure 2 Carrying Case Layout

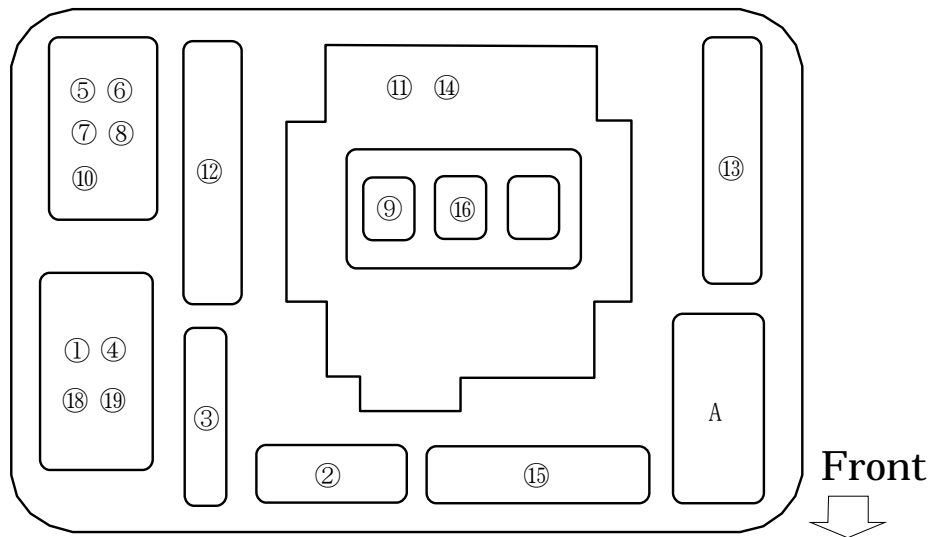
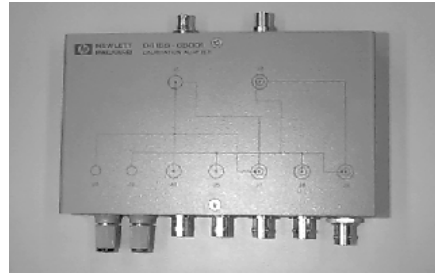


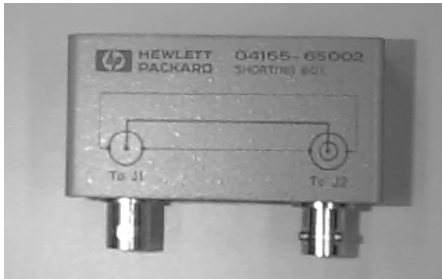
Figure 3 Figure 3. Contents of the Agilent E3190A



1. 04142-61641



2. 04115-65001



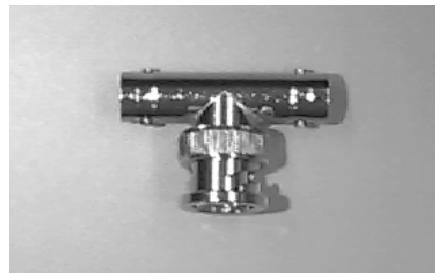
3. 04155-65002



4. Agilent 11058A



5. 1250-0595



6. 1250-0781



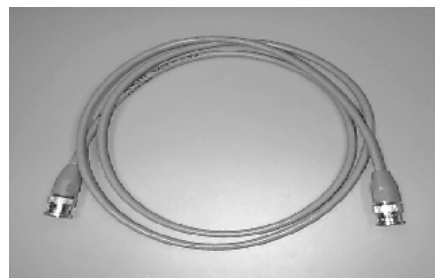
7. 1250-0929



8. 1250-2405

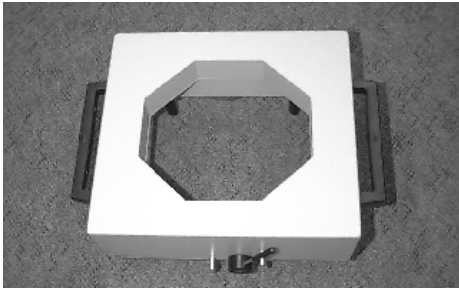


9. Agilent 42037A



10. 8120-1840

Figure 4 Contents of the Agilent E3190A (Cont'd)



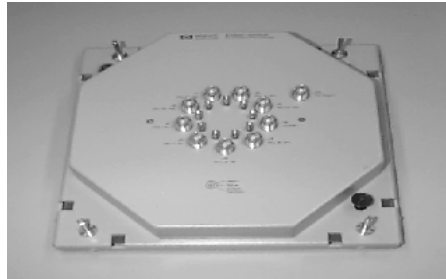
11. E3190-60001



12. E3190-60002



13. 3190-60003



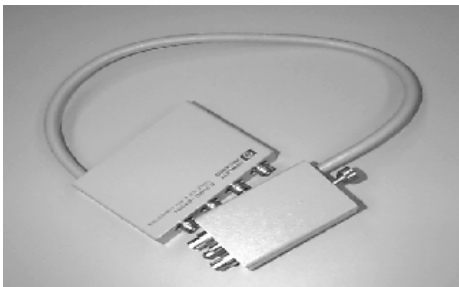
14. E3190-60004



15. E3190-60005



16. E3190-60006



18. E3190-61601



19. E3190-61603

Table 2 Contents of the Agilent E3190A Option 001

Ref.No.	Part Number	Qty	Description
1	1250-1700	1	BNC-SMA Adapter
2	1250-2405	1	BNC-T Adapter
3	E3190-60021	1	PV Pulse Fixture
4	E3190-60102	1	Carrying Case
5	E3190-61611	1	BNC-SMA Cable
6	E3190-61612	1	BNC-SMA(Trigger)Cable
A	1492-0312	4	Caster (Note:1492-0312 contains four casters)

Figure 5 Carrying Case Layout (Option 001)

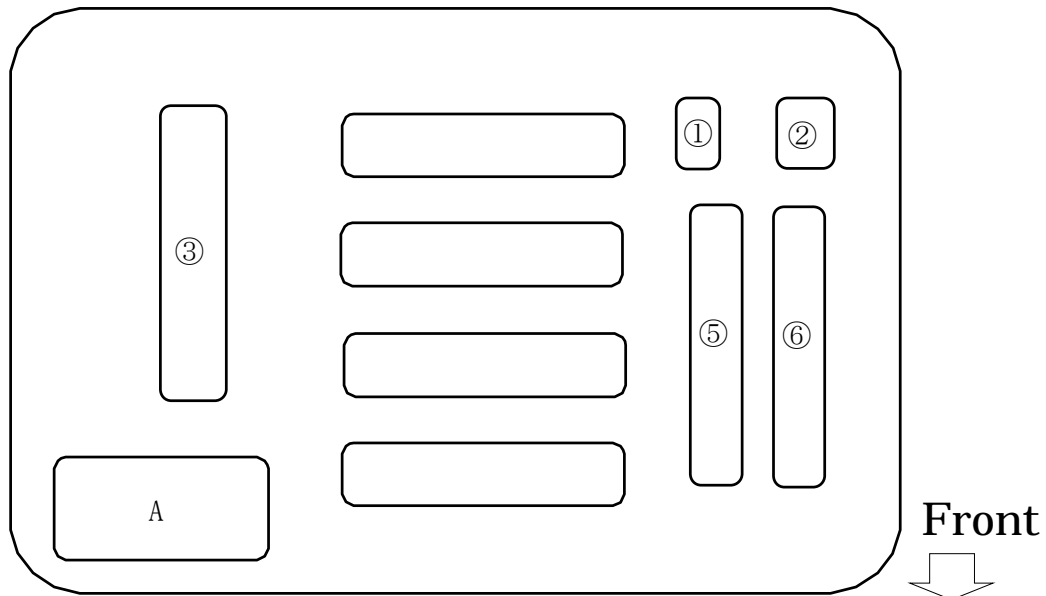


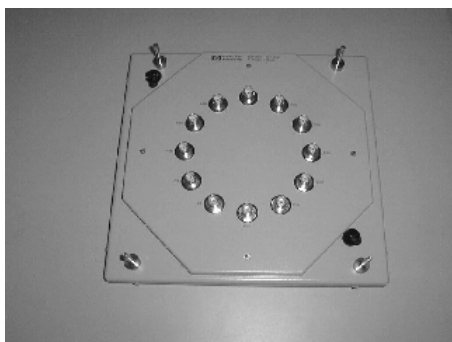
Figure 6 Contents of the Agilent E3190A Option 001



1. 1250-1700



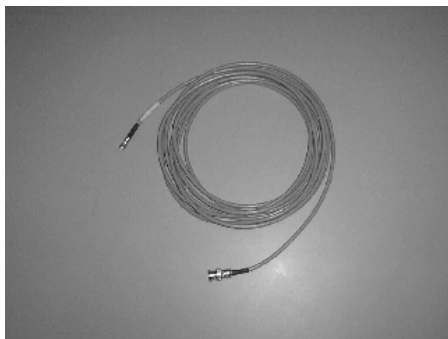
2. 1250-2405



3. E3190-60021



5. E3190-61611



6. E3190-61612



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Manufacturing Part No.
E3190-90003



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