

16080A TEST FIXTURE



JUL. 1983

 **HEWLETT
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All Hewlett-Packard products are warranted against defects in materials and workmanship. This warranty applies for one year from the date of delivery, or, in the case of certain major components listed in the operating manual, for the specified period. We will repair or replace products which prove to be defective during the warranty period provided they are returned to Hewlett-Packard. No other warranty is expressed or implied. We are not liable for consequential damages.

For any assistance, contact your nearest Hewlett-Packard Sales and Service Office. Addresses are provided at the back of this manual.

1. INTRODUCTION

This operating note provides complete information on the Hewlett-Packard Model 16080A Test Fixture. The 16080A is shown pictorially on the front cover, its physical dimensions are given in Table 1. To order additional copies of this operating note, use the part number listed on the rear cover.

Table 1. Specifications

Function: For use with the Hewlett-Packard Model 4280A. Permits connection of axial or radial lead components to the UNKNOWN terminals (2-terminal pair configuration) of the 4280A.
Contact Inserts: Three Kinds: one for axial lead components, one for radial lead components, and one for radial short-lead components.
Dimensions in mm (inches): Approximately 124(W) x 31(H) x 50(D) (4.9 x 1.2 x 2.0)
Weight in grams (lbs): Approximately 300 (0.66)

2. DESCRIPTION

The Model 16080A Test Fixture is designed for use with the 4280A. It is a direct attachment 2-terminal pair configuration type test fixture for measurement of both axial and radial lead components. Three contact inserts — labeled ①, ②, and ③ in Figure 1 — are available: one (①) for measurements on axial components and two (② and ③) for measurements of radial lead components. DC bias levels up to $\pm 42V$ can be applied to the device under test (DUT) through this test fixture. The dimensions of the contact inserts are given in Figure 2.

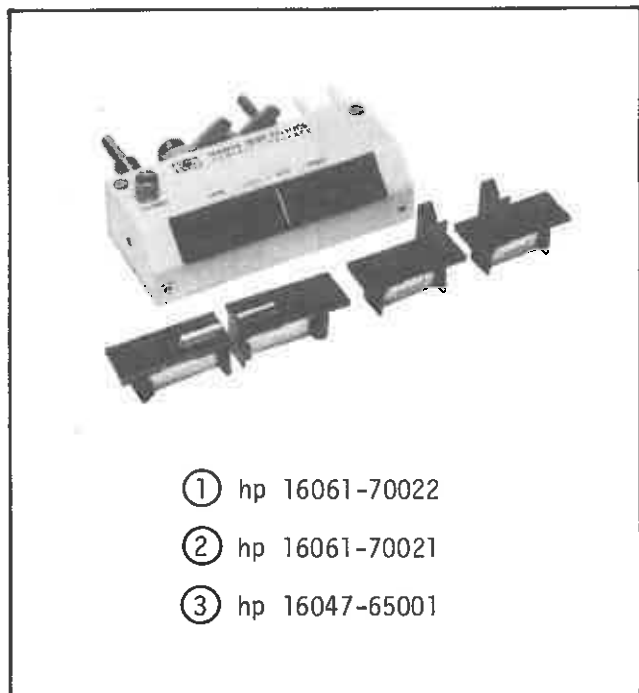


Figure 1. 16080A Test Fixture

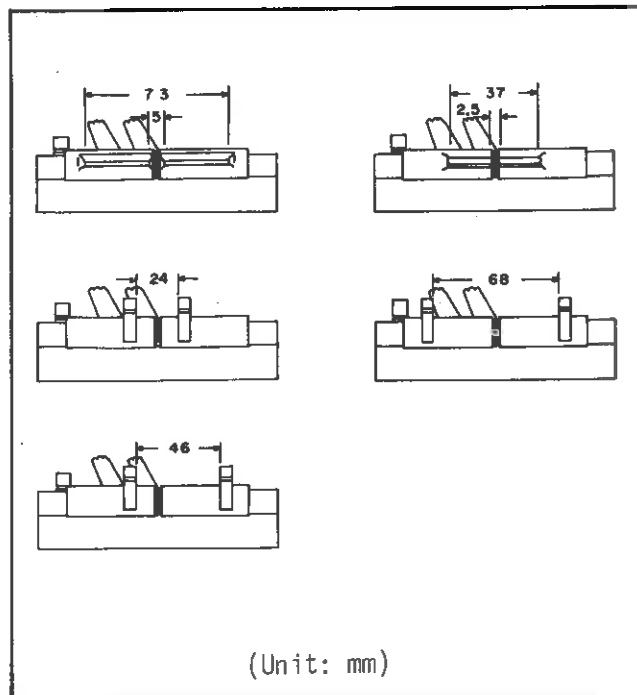


Figure 2. Dimension of Contact Inserts

3. OPERATION

Setup and measurement procedure is as follows:

- a. Set the instrument's INT BIAS switch on the front panel to the $\pm 42V$ MAX position.
- b. Connect the 16080A directly to the UNKNOWN terminals of the instrument.
- c. Perform internal or external error correction as described in SECTION III of the instrument's operation and service manual.
- d. Insert the DUT into the test fixture.

4. MAINTENANCE

The internal wiring of the 16080A is shown in Figure 3 and an exploded view — for parts identification — in Figure 4. Do not disassemble any further than shown. Maintenance consists principally of cleaning contacts and replacing worn or damaged parts. Take special care when cleaning contacts. To order parts, use the Hewlett-Packard part numbers listed in Figure 4. If a faulty part is located in an assembly that cannot be disassembled, order the next higher assembly or return the whole device to the nearest Hewlett-Packard Sales/Service Office for repair or replacement.

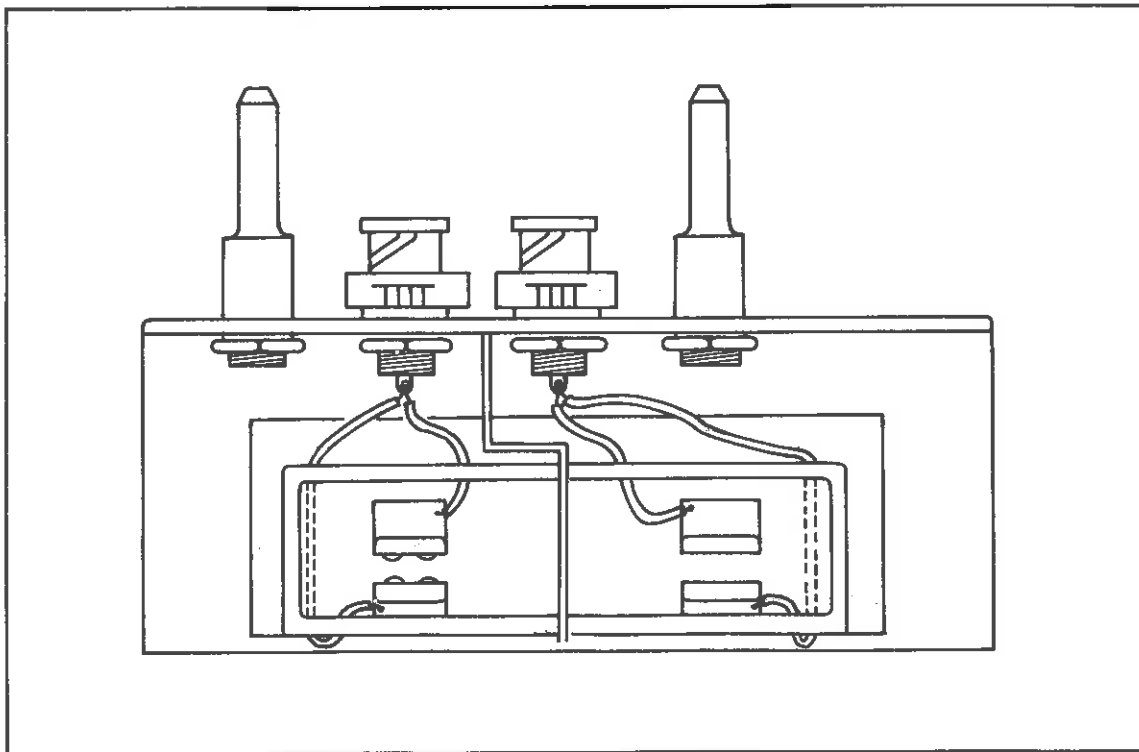


Figure 3. Internal Wiring of 16080A

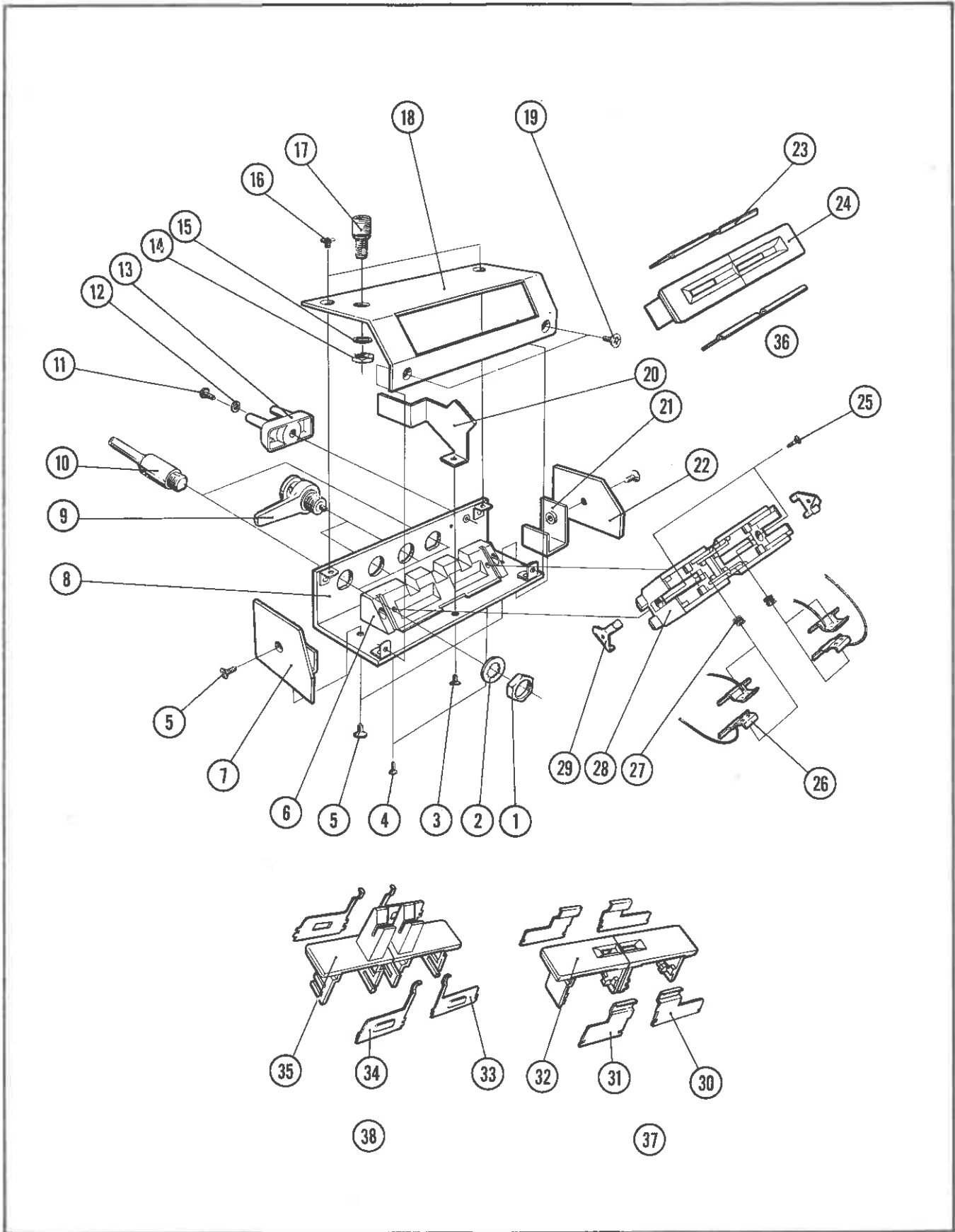


Figure 5. Parts Identification for 16080A (Sheet 1 of 2)

Reference No.	HP Part No.	Qty	Description	Note
1	2950-0043	4	NUT	
2	2190-0016	4	WASHER	
3	2200-0140	1	SCREW	
4	2200-0140	2	SCREW	
5	2360-0192	4	SCREW	
6	16061-50022	1	BASE	
7	16047-00602	1	SIDE PLATE	
8	16080-04001	1	BOTTOM COVER	
9	16012-7122	2	BNC ASS'Y	
10	16080-23000	2	PIN	
11	2200-0103	1	SCREW	
12	3050-0229	1	WASHER	
13	16047-40000	1	STOPPER	
14	2950-0006	1	NUT	
15	2190-0084	1	WASHER	
16	2360-0192	2	SCREW	
17	1510-0038	1	GROUND POST	
18	16080-04000	1	TOP COVER	
19	2360-0192	2	SCREW	
20	16047-00600	1	SHIELD PLATE	
21	16047-01200	2	ANGLE	
22	16047-00603	1	SIDE PLATE	
23	16061-10031	4	CONTACT-RADIAL	
24	16061-50031	2	SOCKET-RADIAL	
25	0624-0202	2	SCREW	
26	16061-10026	4	CONTACT	
27	1460-0343	2	SPRING	
28	16061-50023	2	SOCKET	
29	16061-10027	2	SPRING	
30	16047-00604	2	CONTACT-RADIAL	
31	16047-00605	2	CONTACT-RADIAL	
32	16047-40001	2	SOCKET-RADIAL	
33	16061-10033	2	CONTACT-AXIAL	
34	16061-10032	2	CONTACT-AXIAL	
35	16061-50032	2	SOCKET-AXIAL	
36	16061-70021	2	CONTACT ASS'Y	Ⓒ ²³ x 2 + Ⓒ ²⁴
37	16047-65001	2	CONTACT ASS'Y	Ⓒ ³⁰ + Ⓒ ³¹ + Ⓒ ³²
38	16061-70022	2	CONTACT ASS'Y	Ⓒ ³³ + Ⓒ ³⁴ + Ⓒ ³⁵

Figure 5. Parts Identification for 16080A (Sheet 2 of 2)



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