

16451B-02

S E R V I C E N O T E

Supersedes:
NONE

16451B Dielectric Test Fixture

Serial Numbers: Non-RoHS Fixture “MY44100001 - MY44199999”

OR

RoHS Fixture “MY44200001 – MY44299999”

This service note provides the updated part numbers and figures for both RoHS and non-RoHS 16451B Dielectric Test Fixture.

Parts Required:

Parts required depends on whether RoHS or non-RoHS 16451B is serviced.

Non- RoHS unit – Refer to [Situation 1](#)

RoHS unit – Refer to [Situation 2](#)

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:	
INFORMATION ONLY	
<input type="checkbox"/> Calibration Required	PRODUCT LINE: WN
<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR: LS
ADDITIONAL INFORMATION: Support part information for non-RoHS and RoHS 16451B Dielectric Test Fixture.	

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Situation 1:

For non-RoHS 16451B Dielectric Test Fixture (S/N: MY441xxxxx and below)

Solution/Action:

Shown are the supported parts and their respective RoHS compliant replacement support part. RoHS conversion involves with design and dimension change which result in the RoHS support part backward incompatible with non-RoHS 16451B Dielectric Test Fixture. Special handling is needed while using the RoHS replacement part on non-RoHS 16451B. The original support part number is replaced by the respective “RoHS Compliant Replacement Part”. Once the original support part is depleted, please proceed to obtain the RoHS compliant support part. Please refer to table 1-1, 1-2, 1-3, 1-4, 1-5, 1-6 and figure 1-1, 1-2, 1-3, 1-4, 1-6 for the respective replacement part accordingly.

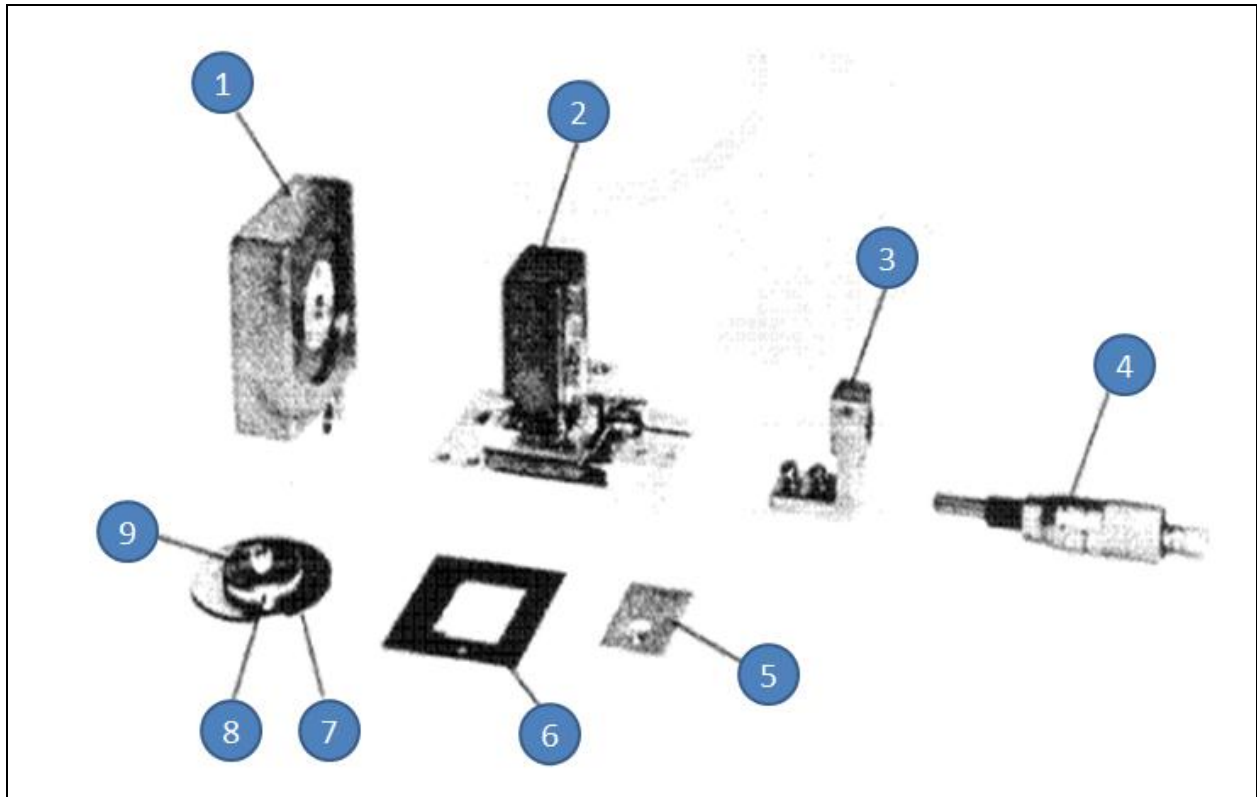


Figure 1-1

NOTE: For RoHS Compliant Upper Level Assembly Replacement Part, if multiple parts are replaced by a common higher assembly part, only order ONE part of the higher level common assembly.

Shown in table 1-1, 1-2, 1-3, 1-4, 1-5 are the original support part and its compatible RoHS replacement part/assembly.

Table 1-1: Replaceable Parts List (1 of 5)

Ref/ D	Part Number	Description	Qty.	RoHS Compliant Replacement Part	Description	Qty.
1	Refer to Table 1-3		1	Refer to Table 1-3		1
2	Refer to Table 1-4		1	Refer to Table 1-4		1
3	8710-1889 (16451-20015)	Angle	1	16451-20015	Holder	1
	2190-0586	Washer	2			
	0515-0909	Screw	2	0515-0382	Screw with Washer	2
4	8750-0373	Micrometer	1	8750-0373	Micrometer	1
5	16451-04001	Cover	1	16451-04601	Cover	1
	0515-0914	Screw	1	0515-1946	Screw	1
6	16451-00602	Plate	1	16451-00602	Plate	1
	0515-0914	Screw	1	0515-1946	Screw	1
7	16451-24001 (16451-24021)	Unguarded Electrode	1	16451-24021	Unguarded Electrode	1
8	16451-25001 (16451-25025)	Insulator	1	16451-25025	Insulator	1
9	16451-24008 (16451-24018)	Plate	1	16451-24018	Plate	1

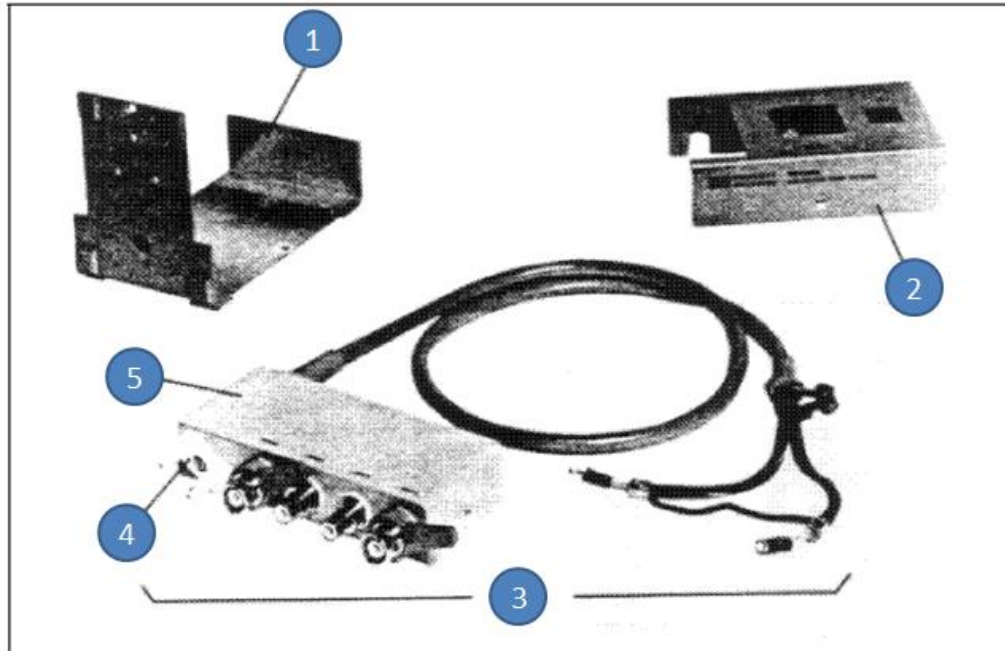


Figure 1-2

Table 1-2: Replaceable Parts List (2 of 5)

Ref/D	Part Number	Description	Qty.	RoHS Compliant Replacement Part	Description	Qty.
1	16451-04003 (16451-04013)	Cover Bottom	1	16451-04613	Cover Bottom	1
	0403-0427	Bumper Foot	8	0403-0427	Bumper Foot	8
	0515-0914	Screw	4	0515-1946	Screw	4
2	16451-04002	Cover Top	1	16451-04602	Cover Top	1
3	16451-61002	Cable Assembly	1	16451-61072	Cable Assembly	1
4*	16047-40000	Stopper	1	-	<i>(RoHS unit doesn't have STOPPER)</i>	-
	2190-0206	Washer	1	-	<i>(RoHS unit doesn't have STOPPER)</i>	-
	0515-1550	Screw	1	-	<i>(RoHS unit doesn't have STOPPER)</i>	-
5*	16451-04004	Cover Top	1	16451-61072	Cable Assembly	1
	0515-0914	Screw	2	0515-1946	Screw	2

Remarks:

* These parts are included in the 16451-61072.

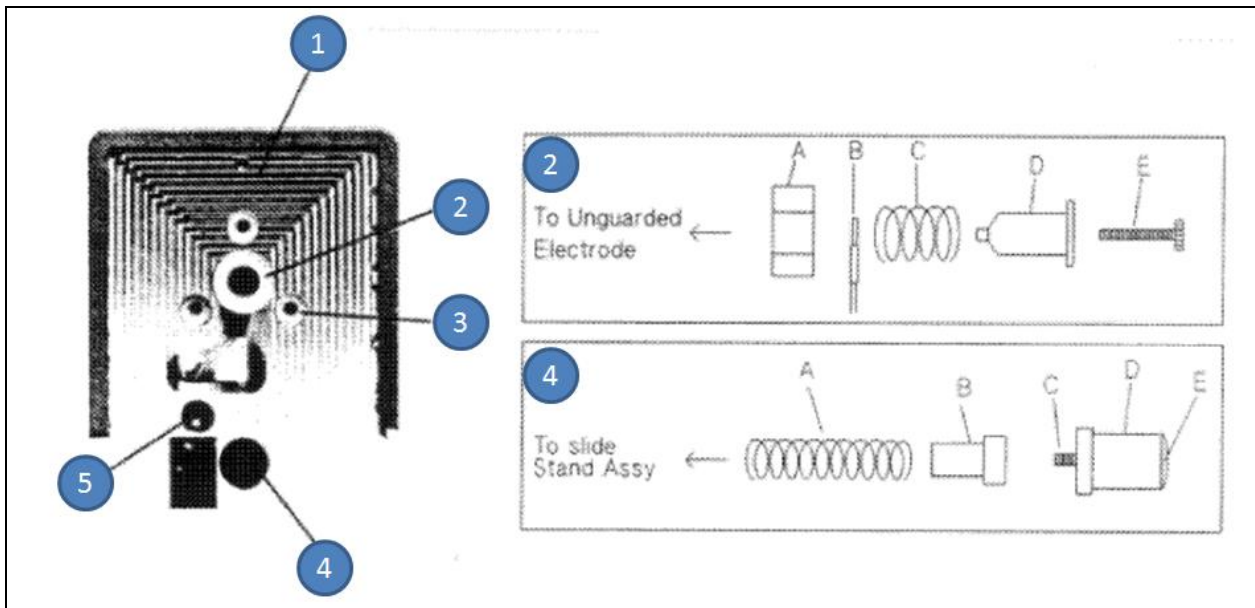


Figure 1-3

Table 1-3: Replaceable Parts List (3 of 5)

Ref/ D	Part Number	Description	Qty.	RoHS Compliant Replacement Part	Description	Qty.
1	16451-20002 (16451-20022)	Base	1	16451-20622	Base	1
2-A	16451-25007	Spacer	1	16451-25007	Spacer	1
2-B	16451-61002	Cable Assembly	1	16451-61072	Cable Assembly	1
2-C	1460-2237	Spring	1	1460-2237	Spring	1
2-D	16451-25004	Bushing	1	16451-25004	Bushing	1
2-E	0515-1321	Screw	1	0515-1321	Screw	1
3	0515-1321	Screw*	3	0515-1321	Screw*	3
	16451-25008	Spacer	3	16451-25008	Spacer	3
4-A	1460-2238	Spring	1	1460-2238	Spring	1
4-B	16451-25009	Rod	1	16451-25009	Rod	1
4-C	0515-1321	Screw	1	0515-1321	Screw	1
4-D	16451-25011	Rod	1	16451-25011	Rod	1
4-E	6960-0147	Plug Hole	1	6960-0076	Plug Hole	1
5	0515-1550	Screw	1	0515-0372	Screw	1

Remarks:

* Apply a drop of Lock Tile (Agilent PN: 0470-0013) to the screws, when replacing them.

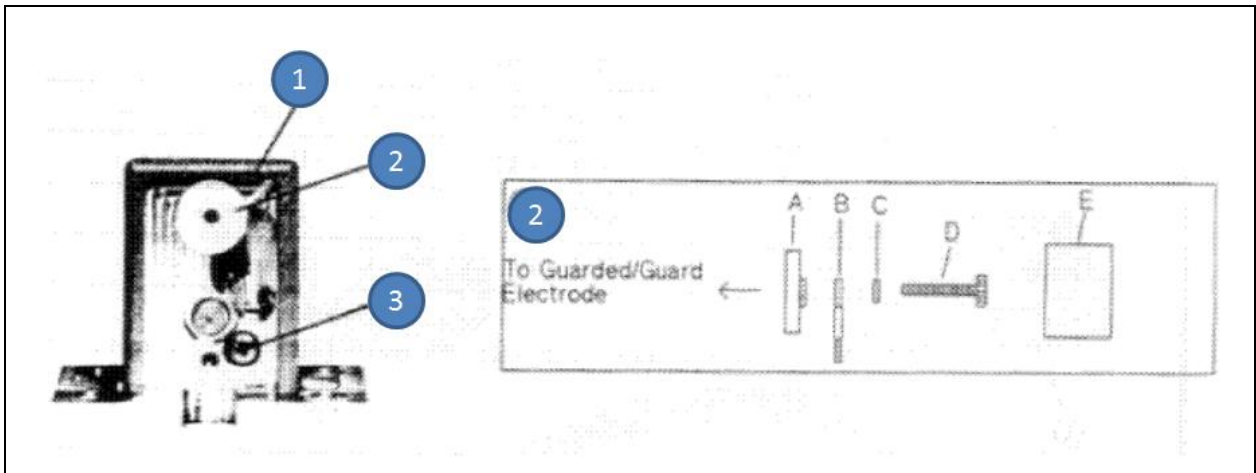


Figure 1-4

Table 1-4: Replaceable Parts List (4 of 5)

Ref/D	Part Number	Description	Qty.	RoHS Compliant Replacement Part	Description	Qty.
1	16451-60002 (16451-60004)	Slide Stand Assembly	1	16451-60604	Slide Stand Assembly	1
2-A	16451-25002 (16451-25005)	Spacer	1	16451-25005	Spacer	1
2-B	16451-61002	Cable Assembly	1	16451-61072	Cable Assembly	1
2-C	2190-0584	Washer	1	2190-0584	Washer	1
2-D	0515-1321	Screw	1	0515-1321	Screw	1
2-E	16451-25006	Spacer	1	16451-25006	Spacer	1
3	0515-1550	Screw	1	0515-0372	Screw	1

Table 1-5: Replaceable Parts List (5 of 5)

Ref/D	Part Number	Description	RoHS Compliant Replacement Part	Description
	16451-60011 (16451-60031)	Electrode A	16451-60031	Electrode-A
	16451-60013	Electrode-B	16451-60013	Electrode-B
	16451-60012	Electrode-C	16451-60012	Electrode-C
	16451-60014	Electrode-D	16451-60014	Electrode-D
	16451-24011	Error Compen. Attachment	16451-24011	Error Compen. Attachment
	16451-25021	Cover 56 mm	16451-25021	Cover 56 mm
	16451-25022	Cover 20 mm	16451-25022	Cover 20 mm
	8710-1181 (5188-4452)	Hex Key	5188-4452	Hex Key
	16451-60001	Carrying Case	16451-60001	Carrying Case

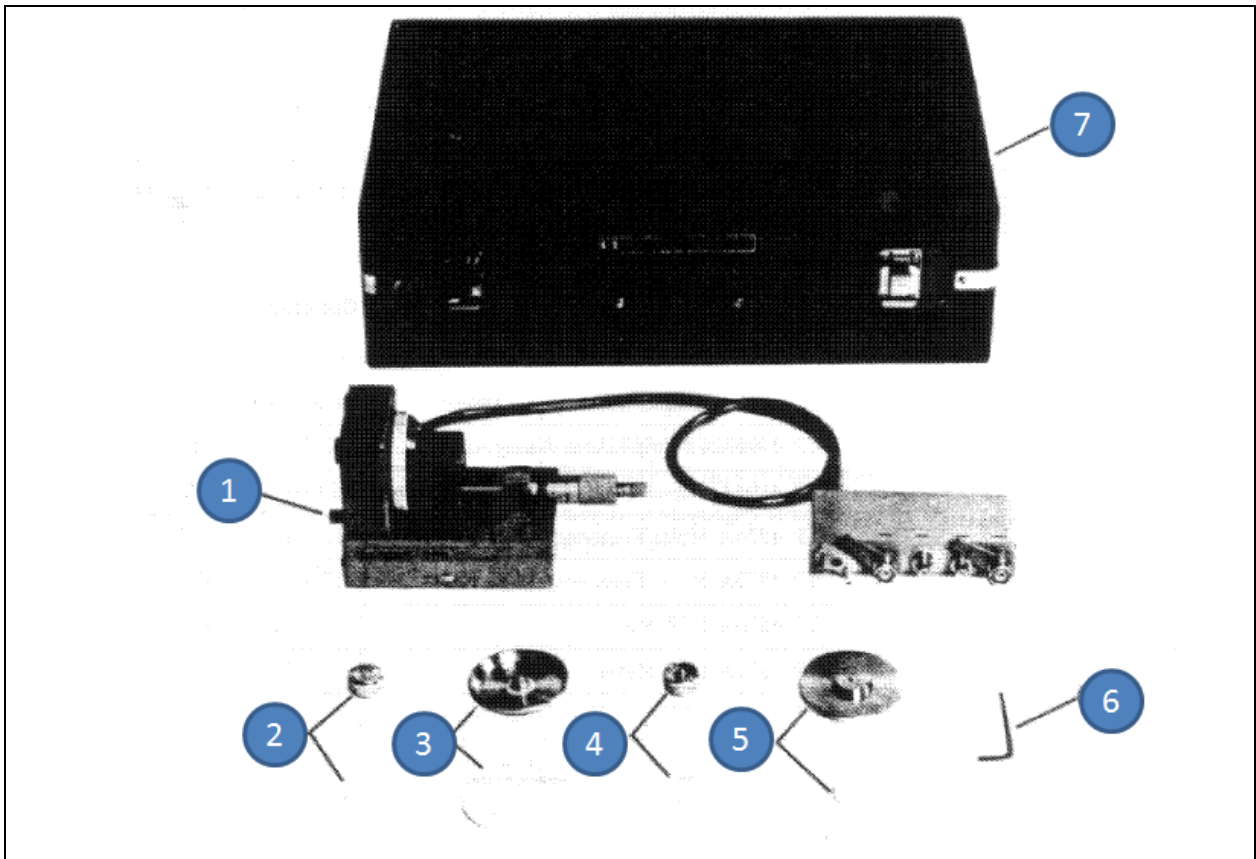


Figure 1-6

Table 1-6: Contents

Ref/ D	Part Number	Description	Qty.	RoHS Compliant Replacement Part	Description	Qty.
1	16451-61001 (16451-61071)	Test Fixture (with electrode A, Unguarded electrode and covers)	1	16451-61071	Test Fixture (with electrode A, Unguarded electrode and covers)	1
2	16451-60013	Electrode B and cover	1	16451-60013	Electrode B and cover	1
3	16451-60012	Electrode C and cover	1	16451-60012	Electrode C and cover	1
4	16451-60014	Electrode D and cover	1	16451-60014	Electrode D and cover	1
5	16451-60021	Attachment for error compensation and cover	1	16451-60021	Attachment for error compensation and cover	1
6	8710-1181	Hex key (for replacing electrodes)	1	8710-1181	Hex key (for replacing electrodes)	1
7	16451-60001	Carrying Case	1	16451-60001	Carrying Case	1

Situation 2:

For RoHS 16451B Dielectric Test Fixture (S/N: MY442xxxxx and above)

Solution/Action:

Shown are the support parts for RoHS compliance 16451B Dielectric Test Fixture. All the listed items are changed at RoHS conversion. Due to limited availability of RoHS compliance station and technical difficulties in RoHS soldering, only parts and support level that do not require RoHS soldering are supported. Shown are the supported RoHS compliance parts for RoHS 16451B Dielectric Test Fixture.

Shown in table 2-1, 2-2, 2-3, 2-4, 2-5, 2-6 and figure 2-1, 2-2, 2-3, 2-4, 2-5 are the respective support parts for RoHS compliance 16453A unit. Parts shown in table 2-1, 2-2, 2-3, 2-4, 2-5, 2-6 are replaceable parts for RoHS unit.

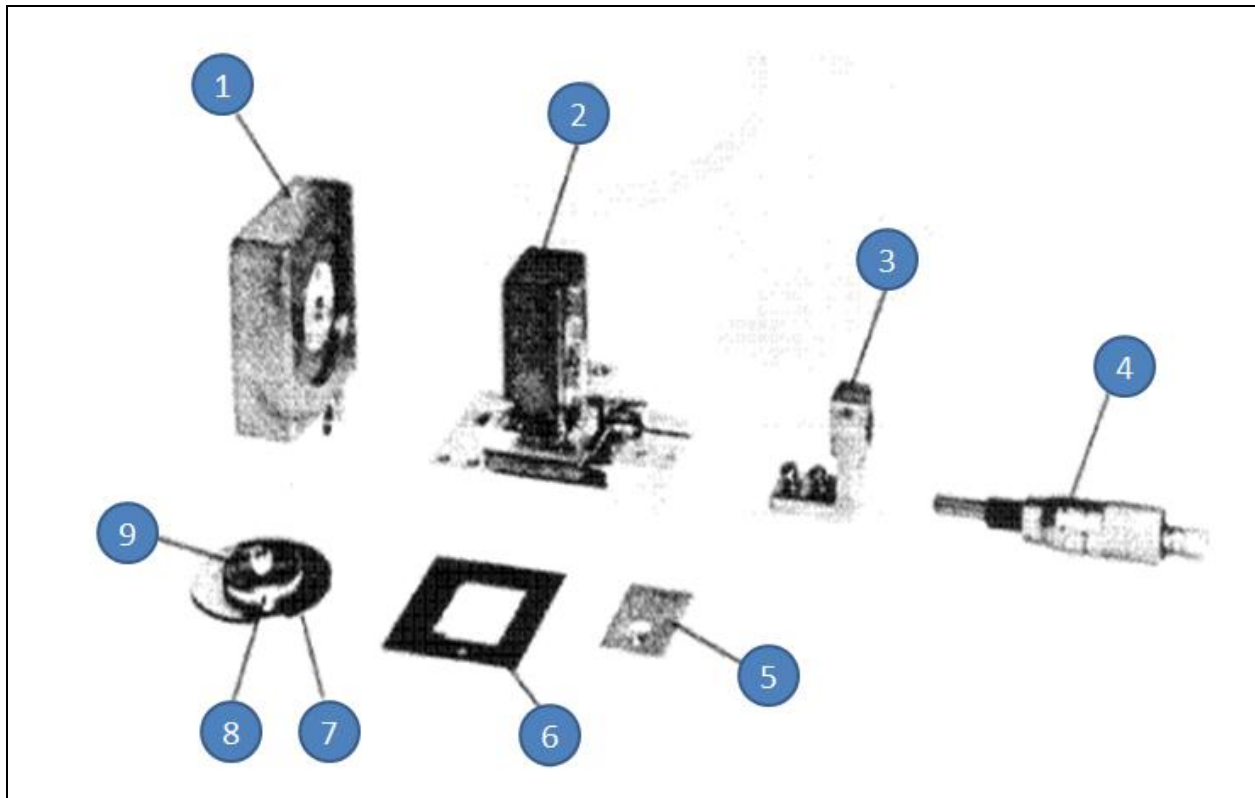


Figure 2-1

Table 2-1: Replaceable Parts (Part 1 of 5)

Ref/D	Part Number	Qty.	Description
1	Refer to Table 1-3	1	
2	Refer to Table 1-4	1	
3	16451-20015	1	Angle
	0515-0382	2	Screw with washer
4	8750-0373	1	Micrometer
5	16451-04601	1	Cover
	0515-1946	1	Screw
6	16451-00602	1	Plate
	0515-1946	1	Screw
7	16451-24021	1	Unguarded Electrode

8	16451-25025	1	Insulator
9	16451-24018	1	Plate

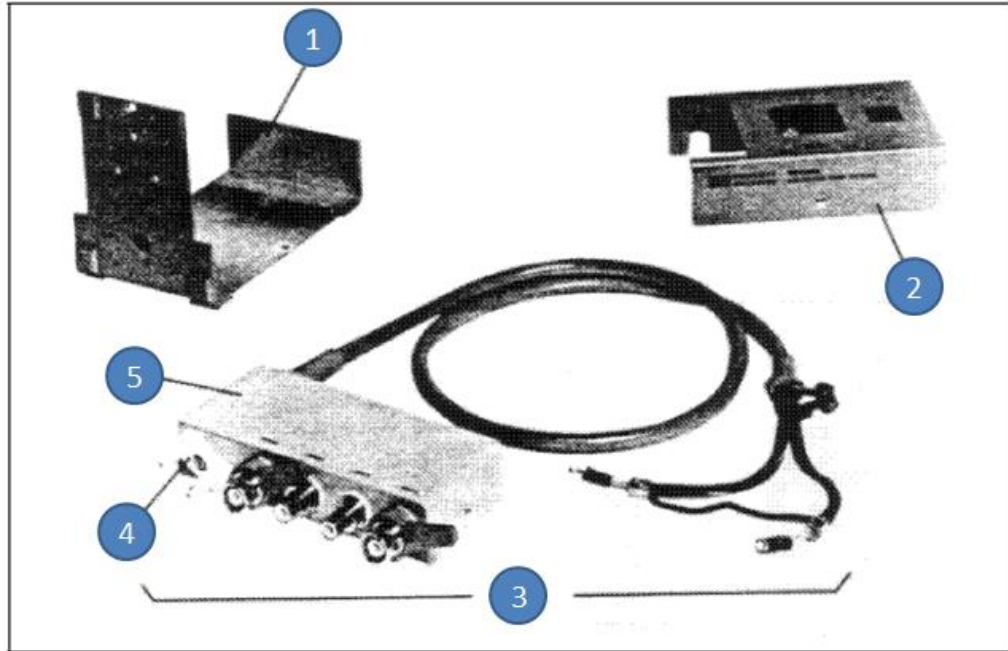


Figure 2-2

Table 2-2: Replaceable Part List (2 of 5)

Ref/D	Part Number	Qty.	Description
1	16451-04613	1	Cover Bottom
	0403-0427	8	Bumper Foot
	0515-1946	4	Screw
2	16451-04602	1	Cover Top
3	16451-61072	1	Cable Assembly
4	-	-	<i>(RoHS unit doesn't have STOPPER)</i>
	-	-	<i>(RoHS unit doesn't have STOPPER)</i>
	-	-	<i>(RoHS unit doesn't have STOPPER)</i>
5*	16451-04604	1	Cover Top
	0515-1946	2	Screw

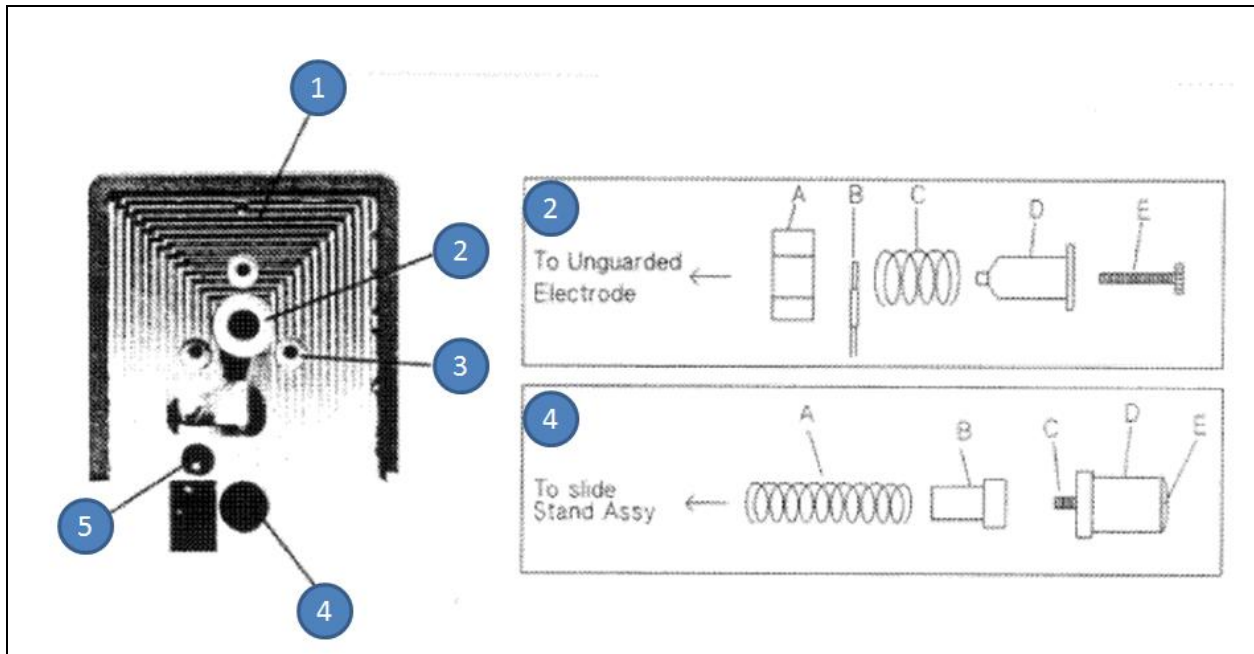


Figure 2-3

Table 2-3: Replaceable Parts (3 of 5)

Ref/D	Part Number	Qty.	Description
1	16451-20622	1	Base
2-A	16451-25007	1	Spacer
2-B	16451-61072	1	Cable Assembly
2-C	1460-2237	1	Spring
2-D	16451-25004	1	Bushing
2-E	0515-1321	1	Screw
3	0515-1321	3	Screw*
	16451-25008	3	Spacer
4-A	1460-2238	1	Spring
4-B	16451-25009	1	Rod
4-C	0515-1321	1	Screw
4-D	16451-25011	1	Rod
4-E	6960-0076	1	Plug Hole
5	0515-0372	1	Screw

Remarks:

* Apply a drop of Lock Tile (Agilent PN: 0470-0013) to the screws, when replacing them.

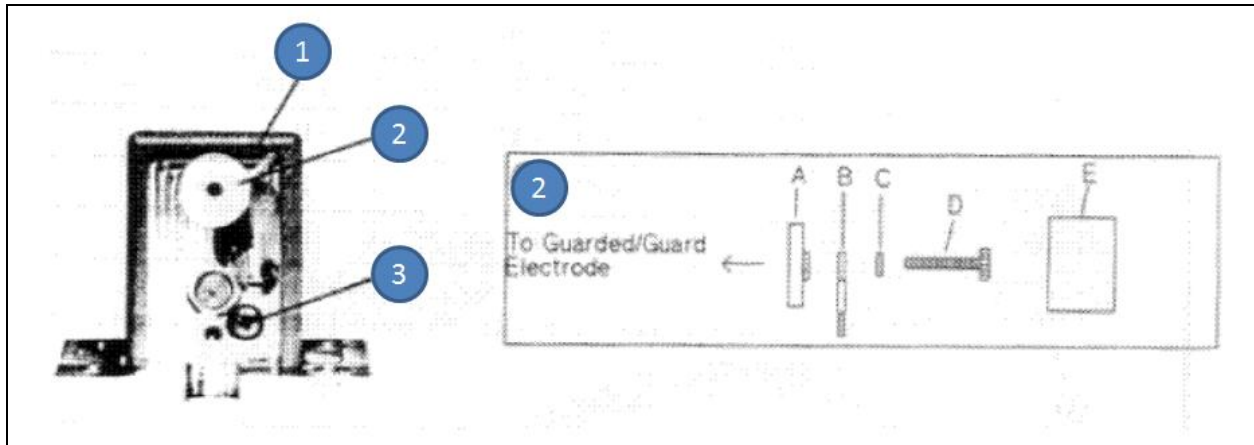


Figure 2-4

Table 2-4: Replaceable Parts List (4 of 5)

Ref/D	Part Number	Qty.	Description
1	16451-60604	1	Slide Stand Assembly
2-A	16451-25005	1	Spacer
2-B	16451-61072	1	Cable Assembly
2-C	2190-0584	1	Washer
2-D	0515-1321	1	Screw
2-E	16451-25006	1	Spacer
3	0515-0372	1	Screw

Table 2-5: Replaceable Parts List (5 of 5)

Ref/D	Part Number	Description
	16451-60031	Electrode-A
	16451-60013	Electrode-B
	16451-60012	Electrode-C
	16451-60014	Electrode-D
	16451-24011	Error Compen. Attachment
	16451-25021	Cover 56 mm
	16451-25022	Cover 20 mm
	5188-4452	Hex Key
	16451-60001	Carrying Case

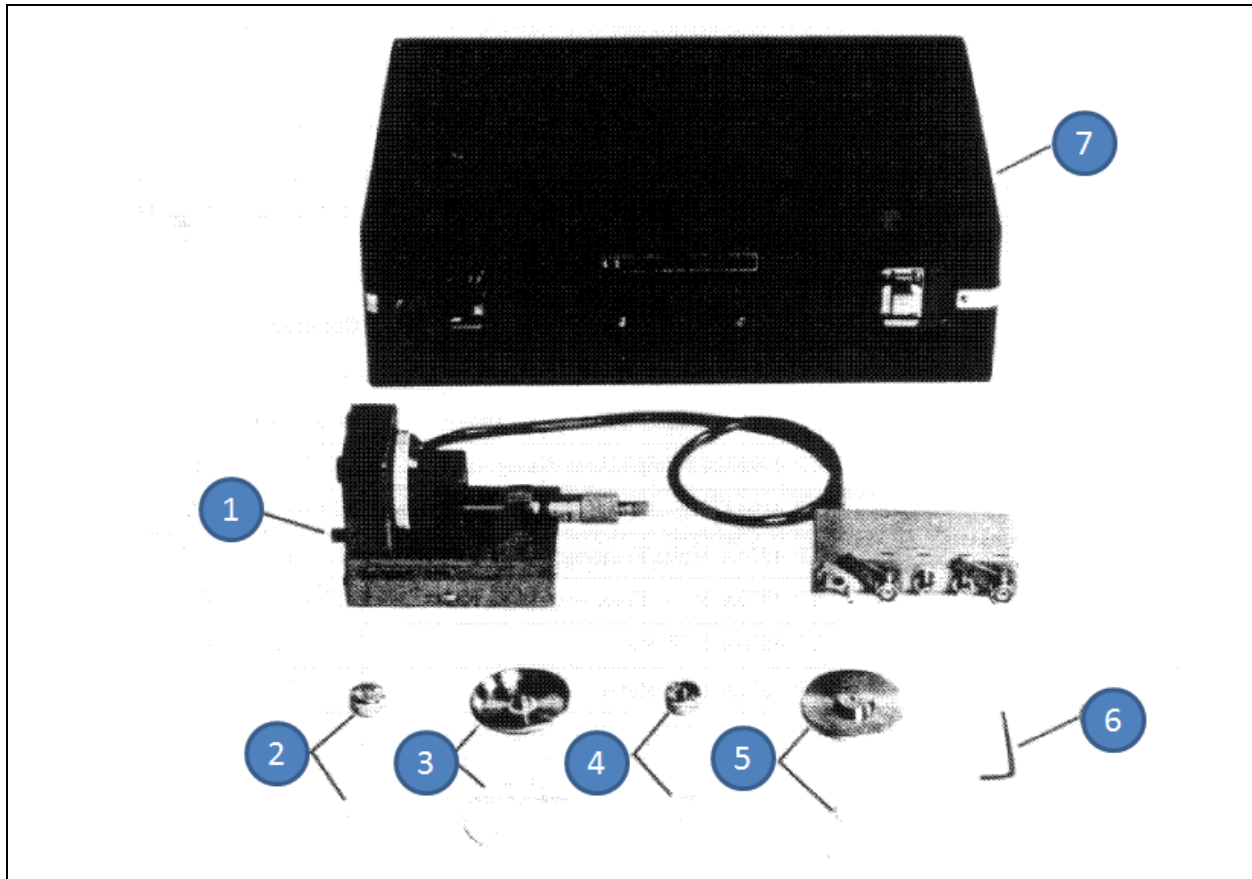


Figure 2-6

Table 2-6: Contents

Ref/D	Part Number	Qty.	Description
1	16451-61071	1	Test Fixture (with electrode A, Unguarded electrode and covers)
2	16451-60013	1	Electrode B and cover
3	16451-60012	1	Electrode C and cover
4	16451-60014	1	Electrode D and cover
5	16451-60021	1	Attachment for error compensation and cover
6	8710-1181	1	Hex key (for replacing electrodes)
7	16451-60001	1	Carrying Case

Revision History:

Revision Number	Date	Author	Reason For Change
1.0	29 Apr 2013	LS	As published