

PHILCO Universal Bakelite Condensers



SERVICE BULLETIN No. 289 for members of RADIO MANUFACTURERS SERVICE A PHILCO Service Plan

THIS bulletin contains the complete list of Philco Black Bakelite "By Pass" condensers, New Universal types, discontinued types with replacements and condensers with internal resistors.

The method of identifying the lugs to which the sections are wired in the New Universal and original type bakelite condensers differs. Two diagrams, Figs. 1 and 2, show these lug arrangements and are referred to in the columns listing the various condensers.

UNIVERSAL LUG ARRANGEMENT

The Universal Condenser part numbers are composed of four numerals and two or three letters following the numerals. This coding system indicates whether the condenser is a single or twin section; contains two condensers of different values; grounded or ungrounded to the metal mounting hole lug or contains high or low melting point wax.

Using Fig. 1 for reference all part nos. with the same four numerals have the same capacity between lugs 1 and 3. The first letter following the numerals indicates the capacity between lugs "1" and "2", and the second letter whether the mounting hole lug is grounded ("G") or ungrounded ("U"). If the first letter is ("D") two condensers of the same value are connected between "1" and "2" and "1" and "3". If the first letter is "S" a single condenser is used between lugs "1" and "3". If the first letter is other than "S" or "D"; example "E", two sections of different capacities are used. The lug connections of each section are shown under the "Capacity Wiring Lugs" column opposite the part number.

Condensers using high melting point wax have an additional letter "O" placed between the numerals and the last two letters of the above code—example "3165-ODG." If the wax is of the standard type, the "O" is omitted.

Discontinued condensers with the new universal replacements and standard type condenser still carried in stock are listed on page two.

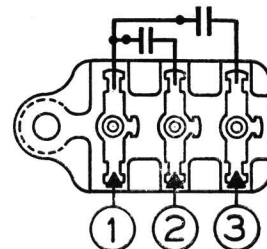


Fig. 1. Universal Wiring

Philco Universal Black Bakelite Condensers

Use Fig. 1 for Wiring Lug Identification

PART No. 3615 Working Voltage 400

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
3615-ODG	2	.05	.05
3615-ODU	2	.05	.05
3615-OSG	1	.05	....
3615-OSU	1	.05	....
3615-XG	2	.05	.0014
3615-YU	2	.05	.03

PART No. 6287 Working Voltage 200

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
6287-CU	2	.15	.05
6287-ODG	2	.15	.15
6287-ODU	2	.15	.15
6287-SG	1	.15	....
6287-SU	1	.15	....

PART No. 7762 Working Voltage 1200

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
7762-DG	2	.001	.001
7762-DU	2	.001	.001
7762-FU	2	.001	.011
7762-OEU	2	.001	.015
7762-OSU	1	.001	....

PART No. 3793 Working Voltage 600

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
3793-ODG	2	.015	.015
3793-ODU	2	.015	.015
3793-OSU	1	.015	....
3793-SG	1	.015	....

PART No. 7296 Working Voltage 1000

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
7296-DG	2	.002	.002
7296-ODU	2	.002	.002
7296-SG	1	.002	....
7296-SU	1	.002	....

PART No. 8035 Working Voltage 1200

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
8035-EU	2	.00011	.015
8035-ODG	2	.00011	.00011
8035-ODU	2	.00011	.00011
8035-SG	1	.00011	....
8035-SU	1	.00011	....

PART No. 3903 Working Voltage 600

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
3903-DG	2	.01	.01
3903-DU	2	.01	.01
3903-LU	2	.01	.006
3903-ODU	2	.01	.01
3903-OSG	1	.01	....
3903-OSU	1	.01	....

PART No. 7442 Working Voltage 1000

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
7442-DG	2	.005	.005
7442-SG	1	.005	....

PART No. 8174 Working Voltage 1200

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
8174-DG	2	.007	.007
8174-DU	2	.007	.007
8174-SG	1	.007	....

PART No. 4989 Working Voltage 200

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
4989-CU	2	.10	.05
4989-FG	2	.10	.01
4989-OFU	2	.10	.01
4989-HG	2	.10	.15
4989-ODG	2	.10	.10
4989-ODU	2	.10	.10
4989-OSG	1	.10	....
4989-SU	1	.10	....

PART No. 7625 Working Voltage 1000

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
7625-DG	2	.006	.006
7625-DU	2	.006	.006
7625-SG	1	.006	....
7625-SU	1	.006	....

PART No. 8317 Working Voltage 1000

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
8317-DU	2	.00025	.00025
8317-ODG	2	.00025	.00025
8317-OSG	1	.00025	....
8317-SU	1	.00025	....

PART No. 7653 Working Voltage 600 Volts

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
7653-DG	2	.025	.025
7653-DU	2	.025	.025
7653-OSG	1	.025	....
7653-OS	1	.025	....

PART No. 8318 Working Voltage 400

Part No.	No. Cap. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
8318-DG	2	.03	.03
8318-DU	2	.03	.03
8318-OSG	1	.03	....
8318-SU	1	.03	....

**Universal Bakelite
Condensers
Continued**

**PART No. 8320
Working Voltage 600**

Part No.	No. Sections	Capacity Wiring Lugs	
		1 & 3	1 & 2
8320-DG	2	.003	.003
8320-DU	2	.003	.003
8320-SG	1	.003

**PART No. 8325
Working Voltage 600**

8325-SU	1	.008
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**PART No. 8326
Working Voltage 600**

8326-OSU	1	.05
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**PART No. 8327
Working Voltage 200**

8327-DU	1	.04
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**PART No. 8328
Working Voltage 600**

8328-SU	1	.03
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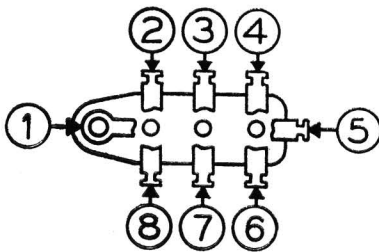


Fig. 2

**Condensers With Internal
Resistors**

Lug Arrangements shown in Fig. 2

Part No.	Cap. Mfd.	Wire Resis. Ohms	Resis. Wiring Lugs	Cond. Wiring Lugs
3615-K	.05	250	3-5	5-8
3615-X	.05	150	1-7	1-5
3615-Z	.05	250	5-7	1-5
3615-AS	.05	250	3-6	1-6
4989-E	.09	250	5-7	1-5
4989-L	.09	200	3-8	4-8
4989-R	.09	200	3-8	4-8
4989-S	Twin .09	200	2-3	3-6
4989-W	.09	200	1-7	1-6
4989-Y	.09	200	5-7	1-5
4989-AA	.09	200	7-8	6-8
4989-AG	.09	300	1-7	1-6
6287-D	.15	200	2-3	3-6
6287-E	.15	200	1-4	1-3

**Condensers Using the Lug Arrangement
Shown in Fig 2**

Part No.	Capacity Mfd. Each Section	Cond. Wiring Lugs	Part No.	Capacity Mfd. Each Section	Cond. Wiring Lugs
6287-G	.05 .15	5-8 7-8	8035-D	.015 .0001	3-4 1-4
6287-K	.15 .09	1-3 1-5	8035-H	.015 .0001	3-5 1-3
6287-M	.05 .15	1-4 1-3	8174-B	.0007 .05	1-6 1-3
6287-N	.09 .15	2-4	8206-B	......10	2-6
6287-P	.09 .15	2-4	8317-B	.00025 .00025	1-6 1-7
6287-S	.09 .15	..... 2-6	8317-C	.00025 .00025	6-8 7-8
7296-G	.05 .002	1-3 1-5	8318-E	.03 .05	1-6 1-7
7296-H	.01 .002	1-3 1-5	8320-B	.003	2-6
7442-B	......005	2-6	8320-C	.003 .003	1-5 1-7
7625-D	.015 .006	3-4 1-4	8322-B	.0014 .05	1-3 1-6
7625-F	.001 .006	2-7 2-6	8323-B	.07 .03	1-7 1-6

Discontinued Bakelite Condensers with Replacements

Original Part No.	Replacement
3615-B	3615-AS
3615-C	3615-AS
3615-D	3615-OSG
3615-E	3615-OSU
3615-F	3615-OSU
3615-G	3615-OSU
3615-H	3615-OSU
3615-I	3615-OSG
3615-L	3615-OSG
3615-M	3615-OSU
3615-N	3615-OSG
3615-P	3615-AS
3615-R	3615-AS
3615-S	3615-OSG
3615-T	3615-X
3615-U	3615-OSG
3615-W	3615-OSG
3615-Y	3615-X
3615-AA	3615-OSG
3615-AB	3615-OSG
3615-AC	3615-OSG
3615-AD	3615-OSU
3615-AE	3615-OSG
3615-AF	3615-ODU
3615-AG	3615-OSG
3615-AH	3615-OSG
3615-AJ	3615-ODG
3615-AK	3615-OSG
3615-AL	3615-AS
3615-AM	3615-ODG
3615-AN	3615-OSG
3615-AP	3615-ODG
3615-AT	3615-OSG
3615-AU	3615-OSG
3615-AV	3615-OSG
3615-AX	3615-OSU
3615-AY	3615-OSG
3615-AZ	3615-OSG
3615-BA	3615-ODU
3615-BB	3615-OSU
3615-BC	3615-OSG
3615-BD	3615-OSU
3615-BE	3615-OSU
3615-BF	3615-OSU
3615-BG	3615-ODU

Original Part No.	Replacement
3615-BH	3615-OSG
3615-BJ	3615-OSU
3615-BK	3615-OSG
3615-BL	3615-OSG
3615-BM	3615-ODG
3615-BN	3615-ODG
3615-BP	3615-OSU
3615-BR	3615-OSU
3793-B	3793-OSU
3793-C	3793-OSU
3793-D	3793-OSU
3793-E	3793-ODG
3793-F	3793-OSU
3793-G	3793-OSU
3793-H	3793-ODG
3793-I	3793-OSU
3793-K	3793-ODG
3793-L	3793-ODU
3793-M	3793-ODU
3793-N	3793-OSU
3793-P	3793-ODU
3793-R	3793-ODG
3793-S	3793-OSU
3793-T	3793-OSU
3793-U	3793-OSU
3793-W	3793-SG
3793-X	3793-OSU
3793-Y	3793-OSU
3793-Z	3793-SG
3793-AB	3793-OSU
3793-AC	3793-OSU
3793-AD	3793-ODG
3793-AE	3793-ODG

Original Part No.	Replacement
3903-S	3903-DG
3903-T	3903-OSU
3903-U	3903-SG
3903-W	3903-OSU
3903-X	3903-OSU
3903-Y	3903-OSU
3903-Z	3903-OSU
3903-AA	3903-SG
3903-AB	3903-OSU
3903-AC	3903-DG
3903-AD	3903-OSU
3903-AE	3903-SG
3903-AF	3903-SG
3903-AG	3903-SG
3903-AH	3903-SG
3903-AJ	3903-DU
3903-AK	3903-DU
3903-AL	3903-OSU
3903-AM	3903-OSU
3903-AN	3903-OSU
3903-AP	3903-OSU
3903-AR	3903-OSU
4989-B	4989-ODG
4989-C	4989-ODG
4989-D	4989-SG
4989-F	4989-SG
4989-G	4989-ODG
4989-H	4989-ODG
4989-J	4989-SU
4989-K	4989-ODU
4989-M	4989-ODU
4989-N	4989-SG
4989-P	4989-SU
4989-T	4989-ODU
4989-U	4989-SU
4989-X	4989-W
4989-Z	4989-ODG
4989-AB	4989-SU
4989-AC	4989-ODG
4989-AD	4989-ODG
4989-AE	4989-ODG
4989-AF	4989-ODU
4989-AH	4989-ODG

Original Part No.	Replacement
4989-AJ	4989-SU
4989-AK	4989-ODG
6287-B	6287-SU
6287-C	6287-D
6287-F	6287-ODU
6287-H	6287-ODG
6287-I	6287-ODG
6287-L	6287-ODU
6287-R	6287-ODU
6287-T	6287-ODU
7625-B	7625-SU
7625-C	7625-SU
7625-E	7625-SU
7625-G	7625-SG
7625-H	7625-SU
7625-J	7625-SU
7296-B	7296-SU
7296-C	7296-SU
7296-D	7296-SG
7296-E	7296-DG
7296-F	7296-SG
7762-B	7762-OEU
7762-C	7762-SU
7762-D	7762-SU
7762-E	7762-SU
8318-B	8318-SU
8318-C	8318-ODG
7653-B	7653-SU
7653-C	7653-DG
8035-B	8035-ODG
8035-C	8035-ODG
8035-E	8035-ODU
8035-F	8035-EU
8035-G	8035-ODU
8035-K	8035-ODG
8035-M	8035-ODG
8035-N	8035-ODG
8035-L	8035-ODG
8035-R	8035-ODU
8035-S	8035-ODU
8035-T	8035-OEU

PHILCO RADIO AND TELEVISION CORPORATION
Parts and Service Division
Philadelphia, Pa.