



FOR 220 V. 50 CYCLE OPERATION
BREAK CIRCUIT IN PLACE MARKED "X"
AND USE INPUT RESISTANCE CORD
A-14962 SHOWN DOTTED IN PLACE OF
A-14695-1

- C1 .1 MFD. 200V.
- C2 .1 MFD. 200V.
- C3 50 MMFD. MICA
- C4 10 MMFD. MICA
- C5 10 MFD. 150V. ELECT.
- C6 15 MFD. 150V. ELECT.
- C7 .1 MFD. 200V.
- C8 .95-470 MMFD. MICA TRIM.
- C9 75 MMFD.
- C10 .006 MFD. 400V.
- R1 33,000 Ω .25W.
- R2 620 Ω .25W.
- R3 10,000 Ω .25W.
- R4 10,000 Ω .25W.
- R5 4700 Ω .5W.
- R6 160,000 Ω .25W.
- L1 OSCILLATOR COIL

- C-3202-38C
- C-3202-36C
- C-720-343
- C-720-367
- A-14927-1
- C-3202-38C
- A-14911-3A
- A-14922
- C-2204-88C
- C-2795-80B
- C-2795-61B
- C-2795-74B
- C-2795-74B
- C-2796-70C
- C-2795-69B
- A-14926-1

- 110 V. 60 CYCLE MOTOR
 - 110 V. 50 CYCLE MOTOR
 - 110 V. 40 CYCLE MOTOR
 - 110 V. 25 CYCLE MOTOR
 - 220V 50 CYCLE MOTOR
 - 110 V. 60 CYCLE MOTOR
 - 110 V. 50 CYCLE MOTOR
 - 110 V. 40 CYCLE MOTOR
 - 110 V. 25 CYCLE MOTOR
 - 220V 50 CYCLE MOTOR
 - C-3140
 - C-3140-1
 - C-3140-2
 - C-3140-3
 - C-3140-4
 - C-3154
 - C-3154-1
 - C-3154-2
 - C-3154-3
 - C-3154-4
- MODEL 219-P
- MODEL 219-PD

THE SPARKS-WITHINGTON COMPANY
SERVICE DIVISION
Jackson, Michigan, U. S. A.

ON-OFF SWITCH
A-14917 SHOWN IN
COUNTER CLOCK-
WISE POSITION

INPUT PLUG
& CORD A-14695-1
115 V. OPERATION

Spartan Wireless Phonograph Models
219-P 219-PD

Line Voltage: 115 volts
Control Switch in Center Position

Antenna Not Connected.
Microphone Not Connected.

Tube	Function	Voltage of Socket Prongs to Gnd. (See Prong Nos. on Schematic Diagram)								Grid Cap
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	
6A7	Oscillator-Modulator	0	120	80	4.5	0	4.5	6.3*	-	0
25Z5	Rectifier	6.3*	117*	150	150	117*	31.3*	-	-	-
BK-80B	Ballast	0	-	117*	-	-	-	31.3*	37*	-

Notes: Voltage readings are for schematic diagram on back of sheet. Allow 15% + or - on all measurements. Always use meter scale which will give greatest deflection within scale limits. All DC measurements made with 1000 ohms per volt voltmeter. All AC voltages made with rectifier type voltmeter. Unless designated otherwise, voltages in table are + DC voltages.
*AC volts.

NOTE: Original production models did not have resistor R6 and condenser C10 included in the circuit as shown above. In these first run production sets resistor R1 connected across the microphone tip jacks in the same position as shown for resistor R6. The above change can be made easily, when servicing any of the first run Models 219-P Wireless Phonographs.