

## WURLITZER SERVICE SLANTS

YOUR QUESTIONS OR COMMENTS ON "SERVICE SLANTS" ARE WELCOME AT ANY TIME

WURLITZER SERVICE DEP'T., NORTH TONAWANDA, I

SUBJECT:	Low Frequency Hum.
AFFECTING:	Wurlitzer Statesman 3400, 3410 and 3460 Phonographs.
COMPLAINT:	Low frequency hum audible on some Phonographs while in "at rest" position.
MANUFACTURERS CORRECTION:	To prevent the possibility of hum in future equipment, we are replacing Resistor R-29 (8 ohm - 5W) with a 25 ohm - 5W resistor.
FIELD CORRECTION:	It is suggested that if this complaint is apparent, remove Resistor R-29 (8 ohm - 5W) and replace with a new 25 ohm - 5W resistor. This resistor may be purchased from our Parts Department under Part Number 74817-2. Refer to Figures 1 and 2 for voltage changes resulting from replacement

Refer to Figures 1 and 2 for voltage changes resulting from replacement of Resistor R-29.

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TEST POINT	D.C. VOLTAGE	TEST POINT	D.C. VOLTAGE
	0.9	Emitter Q-8 and Q-9	10.0
2 8	0.4	A and B Bias	10.0 %
Collector Q-1 and Q-2	1.9	(13)	21.0
(3) (9)	10.0	(14)	0
Emitter Q-3 and Q-4	1.3	(15)	21.0
(4) (10)	0.65	Emitter Q-5	21.0
5 (11)	9.0	High side of R-26	25.0
6 (12)	0.06	(on Filter Capacitor 2000 MFD)	8

Figure 1. D.C. Voltage Changes Resulting From Replacement of R-29.

<u>NOTE</u>: Circled test points are the same as those found on the 550 Amplifier Schematic Diagram in the 3400 Service Manual.

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Frequency - 1000 CPS Tones - Maximum	1	2	3	4	5	6	(13)	14	(15)	Driver	Output
Balance - Mid - Position	7	8	9	(10)		(12)		V.D.C.	V.D.C.	To Load	A to G
Condition #1 5 mv Input or Use 1 Volt and Attenuator #1 Loudness Full ON									+21 V. D.C.	0.135	
Condition #2 Same as Condition #1 except wires removed from board to A.F.B. and B.F.B. (no feedback)				32 <u>-</u>					+19.0 V.D.C.		
Condition #3 400 mv imput or use 1 Volt and Attenuator #2 Loudness OFF (ALC Test)					idnes			+1.35 V.D.C.	+21.0 V.D.C.		

Figure 2. A.C. Voltage Changes Resulting From Replacement of R-29.

NOTE: Circled test points are the same as those found on the 550 Amplifier Schematic Diagram in the 3400 Service Manual.