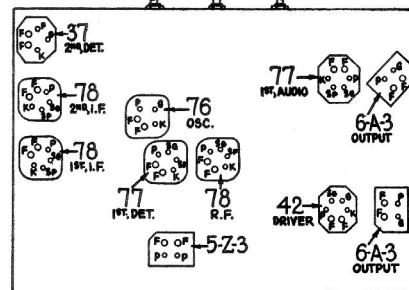


MODEL. 316X 1935-36

NOTE -
FOR ALIGNMENT
INSTRUCTIONS ETC. SEE
DATA SHEET PHILCO-31.

Tube Socket Voltages
(Line Voltage 115) All Voltages Measured to Ground

Tube Point	78 R.F.	77 1st Det.	76 Osc.	78 1st I.F.	78 2nd I.F.	37 2nd Det.	77 1st A.F.	42 Driver	6A3 Output	5Z3
P	207	215	98	208	212	0	95	220	320	..
SG	89	89	89	89	89	..	72	220	320	..
K	2.2	5.2	5.2	2.1	6.4	0	340



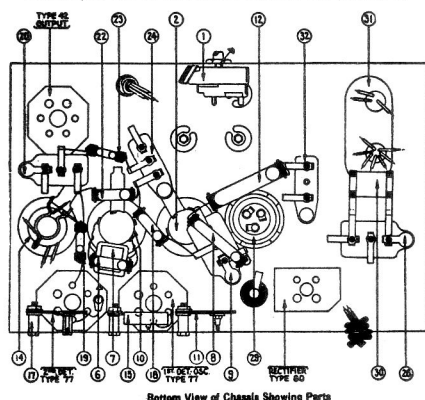
Tube Sockets as viewed from bottom

VOLTAGES

Circuit	Det. Osc.	2nd Det.	2nd A.F. (Output)	Rectifier
Type Tube	77	77	42	80
Filament Volts—F to F	6.3	6.3	6.3	5.0
Plate Volts—P to K	240	70	225	315
Screen Grid Volts—SG to K	95	23	225	..

ADJUSTMENTS

The I.F. primary and I.F. secondary condensers should be adjusted first. Set the signal generator at 460 KC (the I.F. of Model 384) and the dial pointer at



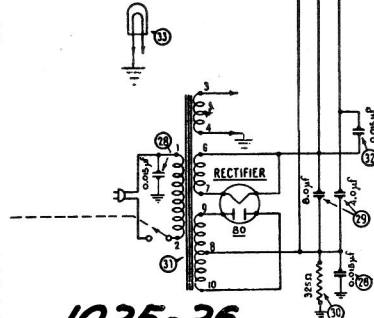
Bottom View of Chassis Showing Parts

MODEL. 384

600. Adjust I.F. condensers (11) and (15) so that maximum signal is obtained. These condensers are at rear of chassis, accessible from rear.

Next, adjust the "regeneration" condenser. This is (17) located at the right hand rear of chassis (facing rear). Adjustment is made by turning the fibre hex nut with either a screw driver or the special fibre wrench. The procedure is: tune in a signal at the high frequency (1500) end of the dial and turn the fibre nut clockwise until oscillation or squealing is heard. Then turn the nut half a turn back (to left). Now tune in a low frequency station, and if squealing is still heard, turn the adjusting nut half a turn back from the squealing point.

The OSC HF (13) and ANT compensating condensers (5) are adjusted last in the order mentioned. These are located on the tuning condenser gang, the ANT (5) being nearest the front of set. In early production sets use the fibre handle screw driver for adjustment, later production, the fibre hex wrench. In making these adjustments, set the signal generator at 1400 and the station selector at 140.



1935-36
I.F. = 460 K.C.

DATA SHEET

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