

Electrohome Z8XXX & 8XXX Alignment Procedure

See Note Below re Data

I. F. ALIGNMENT

Set the signal generator to 456 K.C. and connect the output to the grip cap of the tube through a .1 Mfd. condenser. The generator ground is connected to the chassis which must be externally grounded. The receiver dial is set at maximum frequency (gang open) and the volume control turned full on.

The I.F. trimmers, located as shown on the chassis layout chart, are then adjusted by means of a non-metallic screw driver until maximum output is obtained.

R. F. ALIGNMENT

1500 K. C. Set the signal generator to 1500 K.C., and connect the output lead to the antenna of the receiver in series with a .00025 Mfd. condenser. The ground from the signal generator must be connected to the chassis, and externally grounded. With the dial of the receiver set at 1500 K.C. and the volume control turned full on, adjust the oscillator trimming condenser (located as shown on the chassis layout chart) until a signal is heard.

Note: There may be two signals present, use the one obtained by the minimum capacity setting of the trimming condenser and adjust it to its peak. Then adjust the antenna trimming condenser for maximum output.

600 K.C. This chassis uses a cut plate tuning gang which tracks accurately across the entire tuning band, thus eliminating the 600 K.C. padding condenser.

Above Alignment also includes Models;

1938 - 39

NOTE: Refer to chart at right for type of tube for I.F. Alignment; Required Alignment; Data Sheet on which Circuits and Chassis Layout are Located.

I. F. ALIGNMENT

Set the signal generator to 456 K.C. and connect the output to the grid cap of the tube through a .1 Mfd. condenser. The generator ground is connected to the chassis which must be externally grounded. The receiver dial is set at maximum frequency (gang open) the selector switch turned to the broadcast band position and the volume control turned full on.

R. F. ALIGNMENT

Broadcast Band

1500 K. C. Set the signal generator to 1500 K.C., and connect the output lead to the antenna of the receiver in series with a .00025 Mfd. condenser. The ground from the signal generator must be connected to the chassis, and externally grounded. With the band selector switch in the broadcast position, the dial of the receiver set at 1500 K.C., and the volume control turned full on, adjust the oscillator trimming condenser (located as shown on the chassis layout chart) until a signal is heard.

Note: There may be two signals present, use the one obtained by the minimum capacity setting of the trimming condenser and adjust it to its peak. Then adjust the antenna trimming condenser for maximum output.

600 K. C. Set the receiver dial and the signal generator to 600 K.C. Adjust the 600 K.C. padding condenser for maximum output. While making this adjustment rock the tuning control back and forth through the signal until maximum output results.

Following this, it is advisable to repeat the procedure outlined for 1500 K.C. to compensate for any slight discrepancy caused by the adjustment of the series padding condenser.

MODEL	SEE DATA SHEET		I. F. ALIGNMENT		R. F. ALIGNMENT		SHORT WAVE ALIGN.		
	CIRCUIT	LAYOUT	K.C.	I.F. TUBE	1500 Kc	600 Kc	15 Mc.	6 Mc.	WAVE TRAP
841-E	76	76	456	6A8G	1500	600	—	—	—
841-P	76	76	456	6A8	"	"	—	—	—
841-S, S1	77	77	456	6A8G	"	"	—	—	—
851-E, E1	77	77	456	6A7	"	"	—	—	—
851-P	78	78	456	6A8	"	"	—	—	—
Z 851-L	78	78	456	6A8	"	"	—	—	—
861-S	79	79	456	6A8G	"	"	—	—	—
8A61-E	80	80	456	6A7	"	"	—	—	—
Z 8A61-E	80	80	456	6A7	"	"	—	—	—
8B41-M	81	81	456	1C7G	"	"	—	—	—
8B41-W	81	81	456	1C7G	"	"	—	—	—
8B51-E	82	82	456	1C7G	"	"	—	—	—
8B51-M	82	82	456	1C7G	"	"	—	—	—
8B51-P	82	82	456	1C7G	"	"	—	—	—
8B61-M, M1	83	83	455	1C7G	"	"	—	—	—
8B61-S	84	84	456	1C7G	"	"	—	—	—
8AB51-M	X		456	1C7G	"	"	—	—	—
8V41-E, E1	87	87	456	1C7G	"	"	—	—	—
8V51-M	88	88	456	1C7G	"	"	—	—	—
8V51-P	88	88	456	1C7G	"	"	—	—	—
8AB62-E	85	85	456	1C7G	1500	600	15 Mc.	—	W. T.
8AB62-P	86	86	456	1C7G	"	"	"	—	"
8AB72-M	86	86	456	1C7G	"	"	"	—	"
8B62-S	85	90	456	1C7G	1500	600	15 Mc.	—	—
8B62-P	X		456	1C7G	"	"	"	—	—
8B62-E	84	84	456	1C7G	"	"	"	—	—
8B52-M	83	83	456	1C7G	"	"	"	—	—
852-S	X		456	6A8G	1500	600	15 Mc.	6 Mc.	—
Z 852-D	X		456	6A8G	"	"	"	"	—
Z 852-L	X		456	6A8G	"	"	"	"	—
852-E	78	78	456	6A8G	1500	600	15 Mc.	6 Mc.	W. T.
852-P	79	79	456	6A8	"	"	"	"	"
862-P	79	79	456	6A8	"	"	"	"	"
862-E	79	79	456	6A8	"	"	"	"	"
Z 862-L	79	79	456	6A8	"	"	"	"	"
862-P1	X		456	6A8	"	"	"	"	"
Z 862-P1	X		456	6A8	"	"	"	"	"
862-S	X		456		"	"	"	"	"
872-S	X		456		"	"	"	"	"
8A52-P	80	90	456	6A8	"	"	"	"	"
8A62-E	80	90	456	6A8	"	"	"	"	"
8A72-E	X		456	6A8G	"	"	"	"	"
Z 8A72-E	X		456	6A8G	"	"	"	"	"

Denotes Not Included in this Model

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X NOT ISSUED

Short Wave Band

15 M. C. Set the signal generator to 15 M.C. and connect its output to the antenna of the receiver, through a 400 ohm resistor. The ground of the signal generator is connected to the chassis and externally grounded. Turn the band selector switch to the short wave band, the receiver dial to 15 M.C., and the volume control full on. Adjust the short wave oscillator trimming condenser, shown on the chassis layout chart, until a signal is heard.

Note: There may be two signals present, use the one obtained by the minimum capacity setting and adjust the trimming condenser to the peak of the signal. Then adjust the short wave antenna trimming condenser for maximum output.

6 M. C. Set the receiver dial and the signal generator to 6 M.C. Adjust the H. F. padding condenser for maximum output. While making this adjustment rock the tuning control back and forth through the signal until maximum output results.

WAVE TRAP ADJUSTMENT

The foregoing alignment having been completed, adjust the signal generator to 456 K.C. and connect its output through a .00025 Mfd. condenser to the antenna of the receiver. With the selector switch in the broadcast position and the gang closed (lowest frequency) adjust the wave trap to minimum output. It will probably be necessary to use several thousand microvolts to obtain a reading while making this adjustment.