

ATWATER KENT MFG. CO.

VOLTAGE TABLE FOR MODELS 188, 260, 469, 469-D, 469-Q, 480, 558, 558-D, 558-Q, 612, 627, 812.

TURN SILENCING ADJUSTMENT FULL CLOCKWISE, TONEBEAM ADJUSTMENT FULL COUNTER-CLOCKWISE, RANGE SWITCH AT LOCAL.

All plate, screen and grid measurements are made from cathode in heater-type tubes, and from -F in plain-filament-type tubes. Line voltage = 110 volts. Total "B" voltage on "Q" sets at time of test = 170 volts.

R. F. TUBE	480†			558			558-D 469-Q			558-D 469-Q		
	1st TYPE	2nd TYPE	3rd TYPE	Local	Dist.	558	558-D 469-Q	558-D 469-Q	558-D 469-Q	558-D 469-Q	558-D 469-Q	558-D 469-Q
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	235	185	190	98	65	215	83	170	220	180	215	215
Grid	90	75	55	93	70	92	58	80	115	65	80	80
1st DET. TUBE	1	2	1	3	3	1	1	1	5	2	1	1
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	220	195	205	95	65	212	80	170	220	175	217	217
Grid	85	65	45	83	65	88	55	48	120	55	67	67
1st I. F. TUBE	2	1	1	4	1	2	1	1	7	3	3	3
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	220	185	185	98	65	215	83	170	220	175	217	217
Grid	90	80	55	93	70	92	58	80	115	65	80	80
2nd I. F. TUBE	2	1	1	4	1	2	1	1	7	3	3	3
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	205	180	180	98	65	215	80	170	220	175	215	215
Grid	80	80	56	56	56	56	40	40	65	65	78	78
55 or 85 TUBE	4	4	4	4	4	4	4	4	4	4	4	4
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
D-1	95	80	70	—	—	93	42	—	70	63	85	85
D-2	10	30	12	—	—	10	2	—	6	10	55	55
Grid	0	0	0	—	—	0	0	—	0	0	0	0
2nd DET. TUBE	4	3	2	—	—	4	1	—	1	2	4	4
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	173	173	173	—	—	—	—	—	—	—	—	—
Grid	17	17	17	—	—	—	—	—	—	—	—	—
CONTROL TUBE	2	2	2	—	—	—	—	—	—	—	—	—
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	43	43	43	—	—	—	—	—	—	—	—	—
Grid	15	15	15	—	—	—	—	—	—	—	—	—
1st A. F. TUBE	2	2	2	—	—	—	—	—	—	—	—	—
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	105	105	105	—	—	—	—	—	—	—	—	—
Grid	50	50	50	—	—	—	—	—	—	—	—	—
DRIVER TUBE	2	2	2	—	—	—	—	—	—	—	—	—
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	165	165	165	—	—	—	—	—	—	—	—	—
Grid	—	—	—	—	—	—	—	—	—	—	—	—
OUTPUT TUBES	2	2	2	—	—	—	—	—	—	—	—	—
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	215	225	200	226	226	207	70	170	205	280	355	355
Grid	225	230	205	232	232	217	70	—	215	—	—	—
OSC. TUBE	5	13	12	17	17	13	12	15	4	—	—	—
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Screen	93	27	55	123	123	93	63	—	—	—	—	—
Grid	—	—	—	—	—	—	—	—	—	—	—	—
SILENCING TUBE	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Filament	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Plate	120	150	95	—	—	114	50	—	—	88	155	155
Screen	25	0	0	—	—	26	3	—	—	—	—	—
Grid	1	1	1	—	—	1	1	—	—	—	—	—

VOLTAGES ACROSS RESISTORS

TYPE TYPE TYPE	188	260	469	480	558	558-D	469-D	627	612	812
2nd	—	—	—	—	—	—	—	—	—	—
3rd	—	—	—	—	—	—	—	—	—	—
2nd	—	—	—	—	—	—	—	—	—	—
558-D	—	—	—	—	—	—	—	—	—	—
188	260	469	480	558	469-D	627	612	812	—	—

BLEEDER RESISTORS

Bleeder resistor No. 1	93	88	152	43	88	28	—	60	143	—
Bleeder resistor No. 2	—	153	9	100	—	—	—	133	172	—
Bleeder resistor No. 3	—	27	87	15	—	—	—	—	0	27
Bleeder resistor No. 4	—	138	87	0	—	—	—	12	0	—
Bleeder resistor No. 5	—	0	62	30	—	—	—	—	80	—
Bleeder resistor No. 6	—	23	22	40	—	—	—	—	81	—
Bleeder resistor No. 7	—	—	0	—	—	—	—	—	—	—

BIAS RESISTORS

R.F.I.F. bias resistor	2	1	—	2	3	—	—	—	—	—
R.F.I.F. bias resistor No. 1	—	—	—	—	—	—	—	—	—	—
R.F.I.F. bias resistor No. 2	—	—	—	—	—	—	—	—	—	—
R.F. 1st-I.F. bias resistor No. 1	—	—	—	—	—	—	—	—	—	—
R.F. 1st-I.F. bias resistor No. 2	—	—	—	—	—	—	—	—	—	—
1st-detector bias resistor	5	1	2	4	4	—	—	—	—	—
2nd-I.F. bias resistor	—	—	—	—	—	—	—	—	—	—
2nd-I.F. bias resistor No. 1	—	—	—	—	—	—	—	—	—	—
2nd-I.F. bias resistor No. 2	—	—	—	—	—	—	—	—	—	—
2nd-detector bias resistor	—	—	—	—	—	—	—	—	—	—
Control bias resistor No. 1	12	8	6	—	—	—	—	—	—	—
Control bias resistor No. 2	14	73	23	—	—	—	—	—	—	—
2nd A.F. bias resistor	—	—	—	—	—	—	—	—	—	—
A.F. bias resistor	14	13	12	16	—	—	—	—	—	—
Driver bias resistor	—	—	—	—	—	—	—	—	—	—

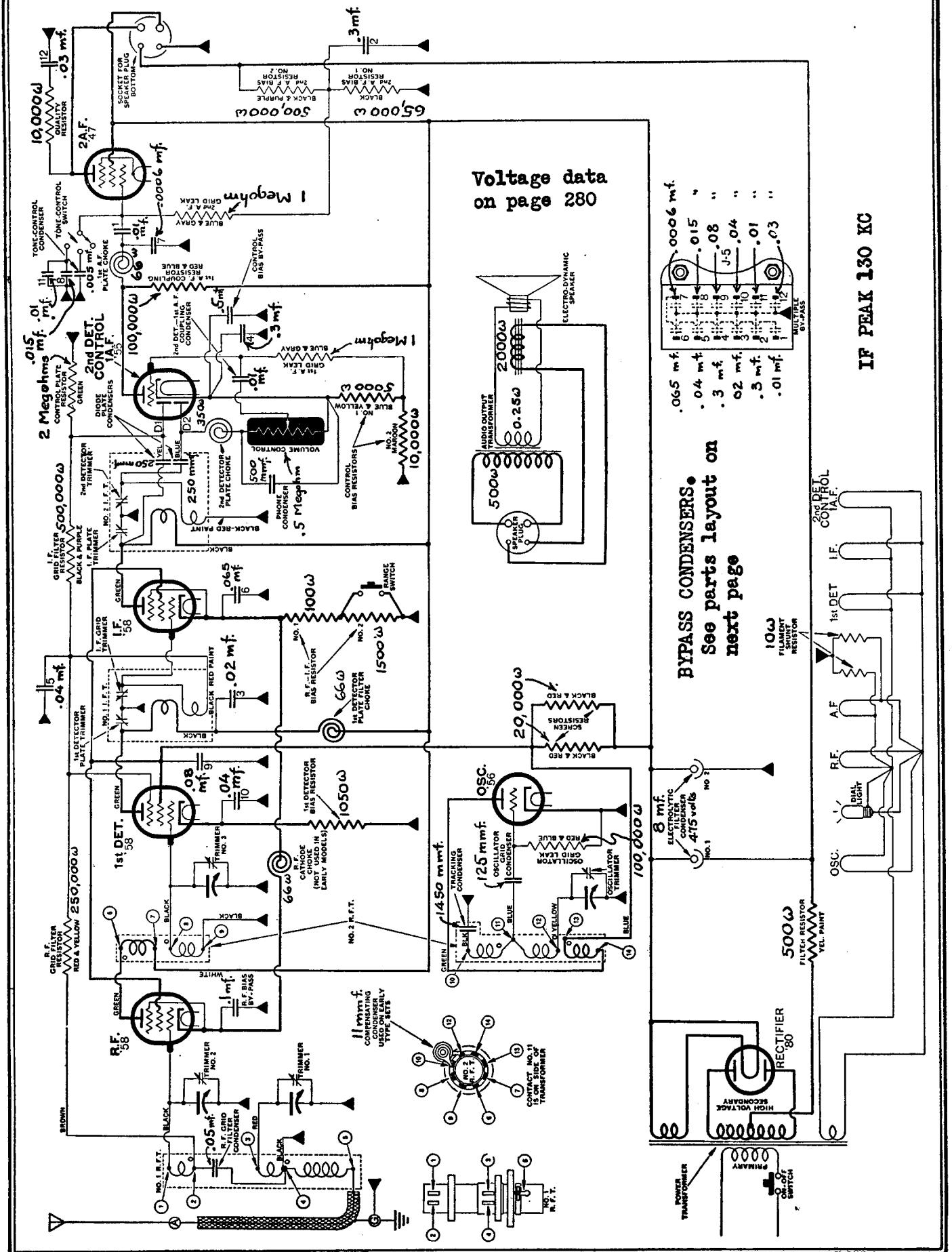
MISCELLANEOUS

Screen resistor	37	193	—	—	—	—	—	—	—	—
2nd-I.F. screen resistor	—	—	—	—	—	—	—	—	—	—
Tonebeam adjustment	—	87	47	85	—	—	—	—	—	—
Silencing adjustment	102	130	147	—	—	—	—	—	—	—
Four-prong speaker field	—	—	—	—	—	—	—	—	—	—
Five-prong speaker field	—	—	—	—	—	—	—	—	—	—
Front rectifier (83) (P to F)	—	—	—	—	—	—	—	—	—	—
Back rectifier (83) (P to F)	—	—	—	—	—	—	—	—	—	—
In sets where bleeder No. 1 is gray, its voltage is 170, and the voltage across the silencing adjustment is 115.	—	—	—	—	—	—	—	—	—	—
In early 812 and 812, the measured voltage on the driver grid is about 27	—	—	—	—	—	—	—	—	—	—

*In Models 558-Q and 469-Q, the 2nd-detector and control are combined in one tube.
 **The oscillator grid voltage varies, dependent on several factors.
 ***In Models 558-Q and 469-Q, the 1st-detector and oscillator are combined in one tube.
 †It is advisable to repeat measurements of the R. F., 1st-det., and I. F. tubes in the Model 480 at each position of the frequency-band switch. The voltages on the short-wave ranges should correspond to those at the "distant broadcast" position. ‡In sets where bleeder No. 1 is gray, its voltage is 170, and the voltage across the silencing adjustment is 115.

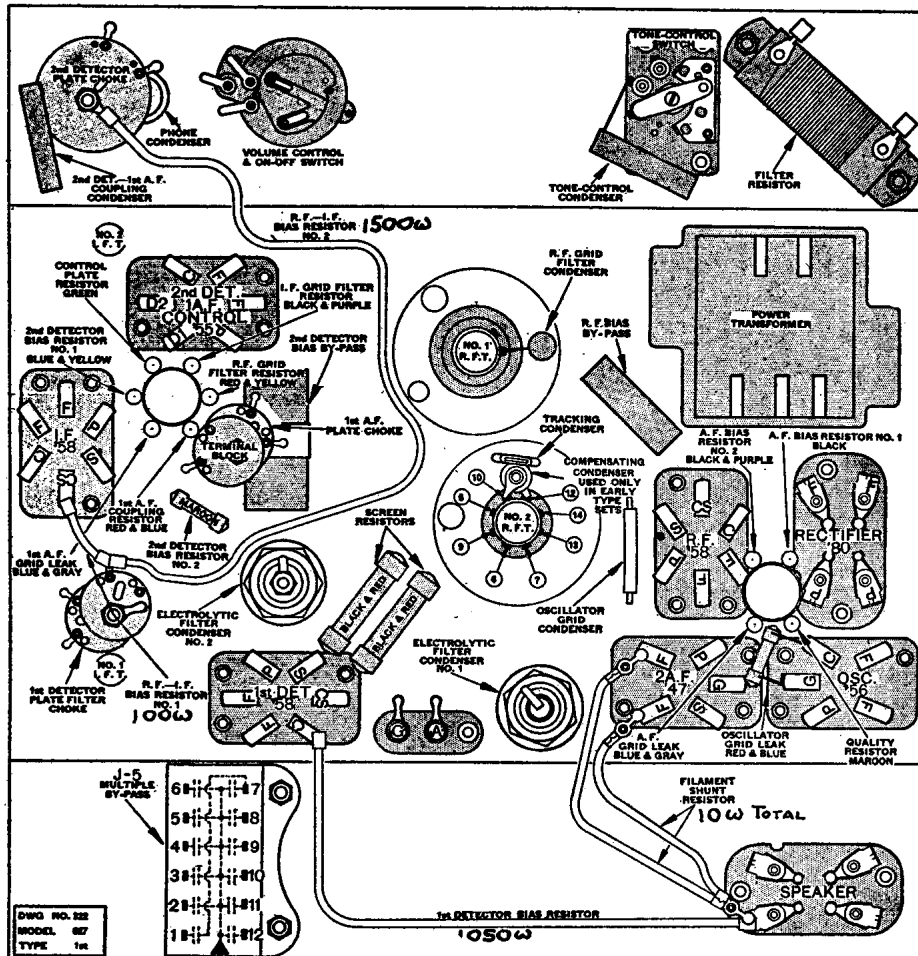
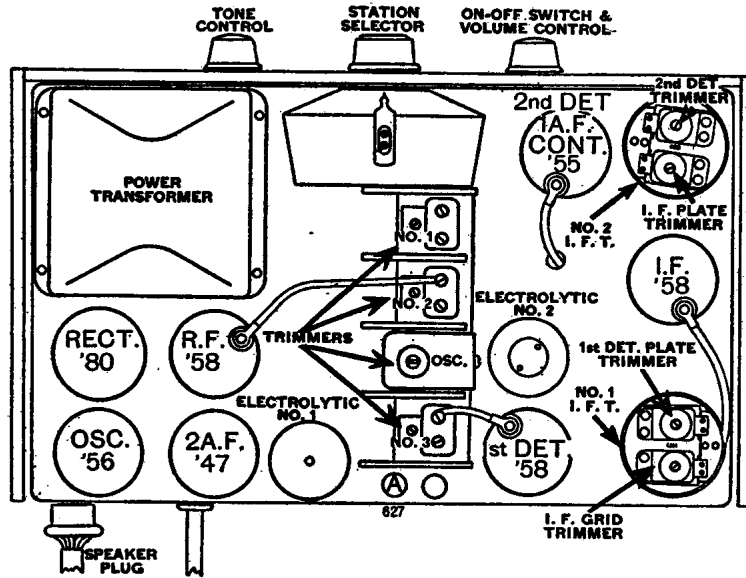
ATWATER KENT MFG. CO.

MODEL 627



MODEL 627

ATWATER KENT MFG. CO.



WING NO. 222
MODEL 627
TYPE 1a