

ATWATER KENT RADIO

TENTATIVE

CIRCUIT DIAGRAMS

FOR

MODELS 165Q, 425, 525Q, 665, 816, 926 AND 936

TABULATED DATA FOR CURRENT MODELS

All models listed below have tone control, and all models with exception of 387, 427Q, 165Q and 525Q have automatic volume control.

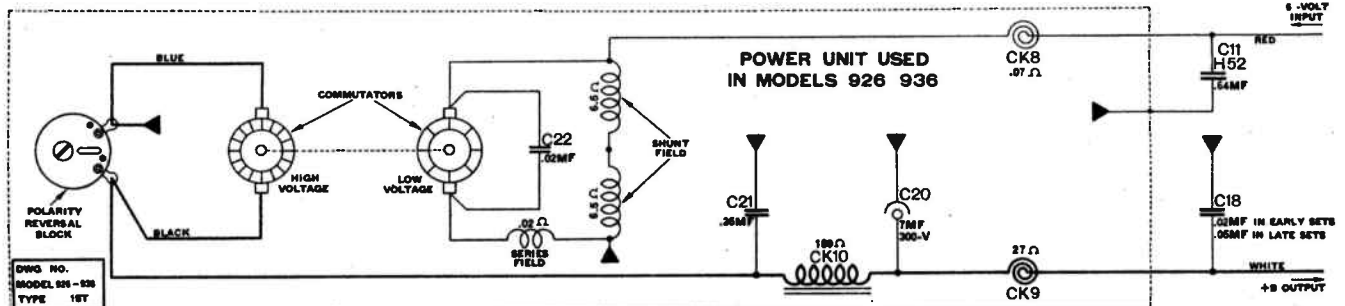
MODEL NUMBER	POWER SUPPLY	PART NO. COMPLETE	PART NO. SPEAKER	WATTAGE	SHADOW TUNING	SILENCING ADJUSTMENT	FREQUENCY RANGE	INTERMEDIATE FREQUENCY	TUBES						
									R. F.	1ST DET. OSCILLATOR	I. F.	2ND DET. CONTROL	1ST A. F.	2ND A. F.	3RD A. F.	RECTIFIER
165	110V, 60C	34000	34100	60	NO	NO	540-1712†	264	57	58	—2A6—	2A5	..	80	
165Q	Battery	38700	37170	††	NO	NO	540-1712†	264	..	1A6	34	32	30	19	..
185	110V, 60C	38300	34100	60	NO	NO	540-1712†	264	..	57	58	—2A6—	2A5	..	80
217	110V, 60C	35500	36300	70	NO	NO	540-3200	264	58	58 56	58	—55—	2A5	..	80
217D	110V, D.C.	36900	37500	45	NO	NO	540-3200	264	78	78 37	78	—75—	43 (2)	..	..
275	110V*	36200	26159	50	NO	NO	540-1750*	264	..	6A7	44	—75—	43	..	25Z5
310	110V, 60C	35900	36500	120	YES	YES	540-3200	130	58	58 56	58	56 56 56	2A5 (2)	..	80
387	Battery	35200	31700	**	NO	NO	550-1500	264	34	1A6	34	32	30	30 (2)	..
425	110V, 60C	39500	33400	60	NO	NO	540-3200	264	..	57	58	—2A6—	2A5	..	80
427	110V, 60C	35600	33400	70	NO	NO	540-3200	264	58	58 56	58	—55—	2A5	..	80
427D	110V, D.C.	37000	37600	45	NO	NO	540-3200	264	78	78 37	78	—75—	43 (2)	..	..
427Q	Battery	35800	36400	**	NO	NO	550-1500	264	34	1A6	34	32	30	30 (2)	..
510	110V, 60C	36000	36500	120	YES	YES	540-3200	130	58	58 56	58	56 56 56	2A5 (2)	..	80
525	110V, 60C	38400	38500	60	NO	NO	540-1712†	264	..	57	58	—2A6—	2A5	..	80
525Q	Battery	39100	39200	††	NO	NO	540-1712†	264	..	1A6	34	32	30	19	..
665	110V, 60C	39600	33400	60	NO	NO	540-3200	264	..	57	58	—2A6—	2A5	..	80
666	6V (Auto)	39900	26851	6	NO	NO	540-1500	264	6D6	6A7	6D6	—85—	41	..	6Z4
667	110V, 60C	36100	33400	70	NO	NO	540-3200	264	58	58 56	58	—55—	2A5	..	80
667D	110V, D.C.	37100	37600	45	NO	NO	540-3200	264	78	78 37	78	—75—	43 (2)	..	..
708	110V, 60C	34200	34300	70	NO	NO	540-20MC	472½	58	58 58	58 (2)	—2A6—	2A5	..	80
711	110V, 60C	36600	36700	150	YES	YES	540-23MC	472½	58	58 58	58 (2)	—55—	56 (2)	2A3 (2)	5Z3
711R	110V, 60C	36800	36700	150	YES	YES	540-23MC	472½	58	58 58	58 (2)	—55—	56 (2)	2A3 (2)	5Z3
788J or T	110V, 60C	39300	39400	70	YES	YES	540-23MC	472½	58	58 58	58 (2)	—2A6—	2A5	..	80
788R	110V, 60C	39700	39400	70	YES	YES	540-23MC	472½	58	58 58	58 (2)	—2A6—	2A5	..	80
808	110V, 60C	34600	34500	70	NO	NO	540-20MC	472½	58	58 58	58 (2)	—2A6—	2A5	..	80
808A	110V, 60C	34600	34500	70	YES	NO	540-20MC	472½	58	58 58	58 (2)	—2A6—	2A5	..	80
816	6V (Auto)	37400	26851	5	NO	NO	540-1500	264	39	6A7	39	—85—	41 (2)	..	..
926	6V (Auto)	39000	26851	6	NO	NO	540-1500	264	39	6A7	39	—85—	41 (2)	..	..
936	6V (Auto)	38800	38900	6	NO	NO	540-1500	264	39	6A7	39	—85—	41 (2)	..	..

* Model 275 may be used on 110 Volts, 25-60 cycles, or 110 Volts, D. C. It has a police switch to tune in the 2400-kilocycle police band.

† Has police switch to tune in the 2400-kilocycle police band.

** The "B" consumption of Models 387 and 427Q is from 20 to 27 milliamperes depending on signal strength and volume level. (25 milliamperes is average.) Late Models 387 and 427Q have a police switch for both police bands.

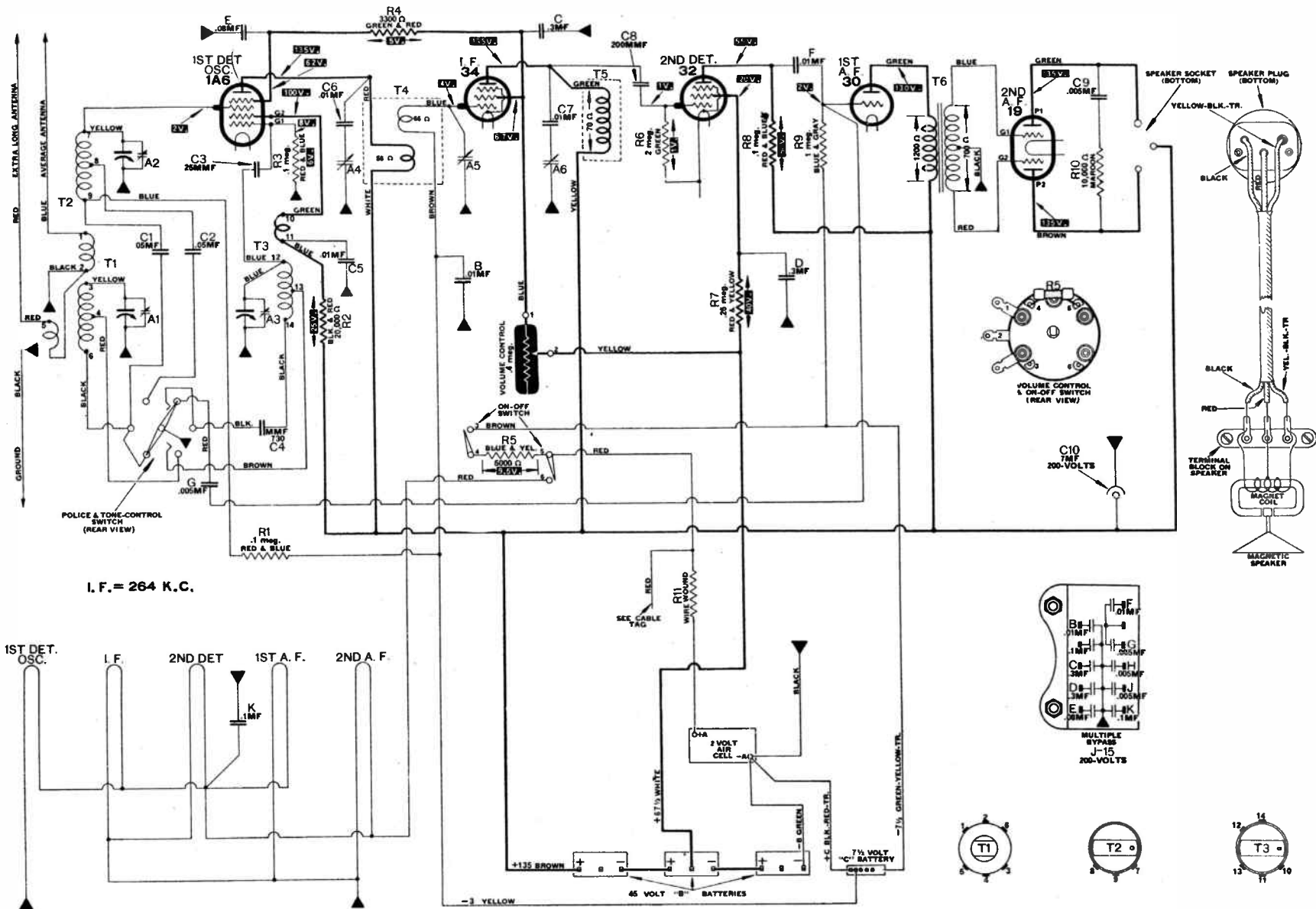
†† The "B" consumption of Models 165Q and 525Q is from 16 to 25 milliamperes depending on signal strength and volume level. (22 milliamperes is average.)



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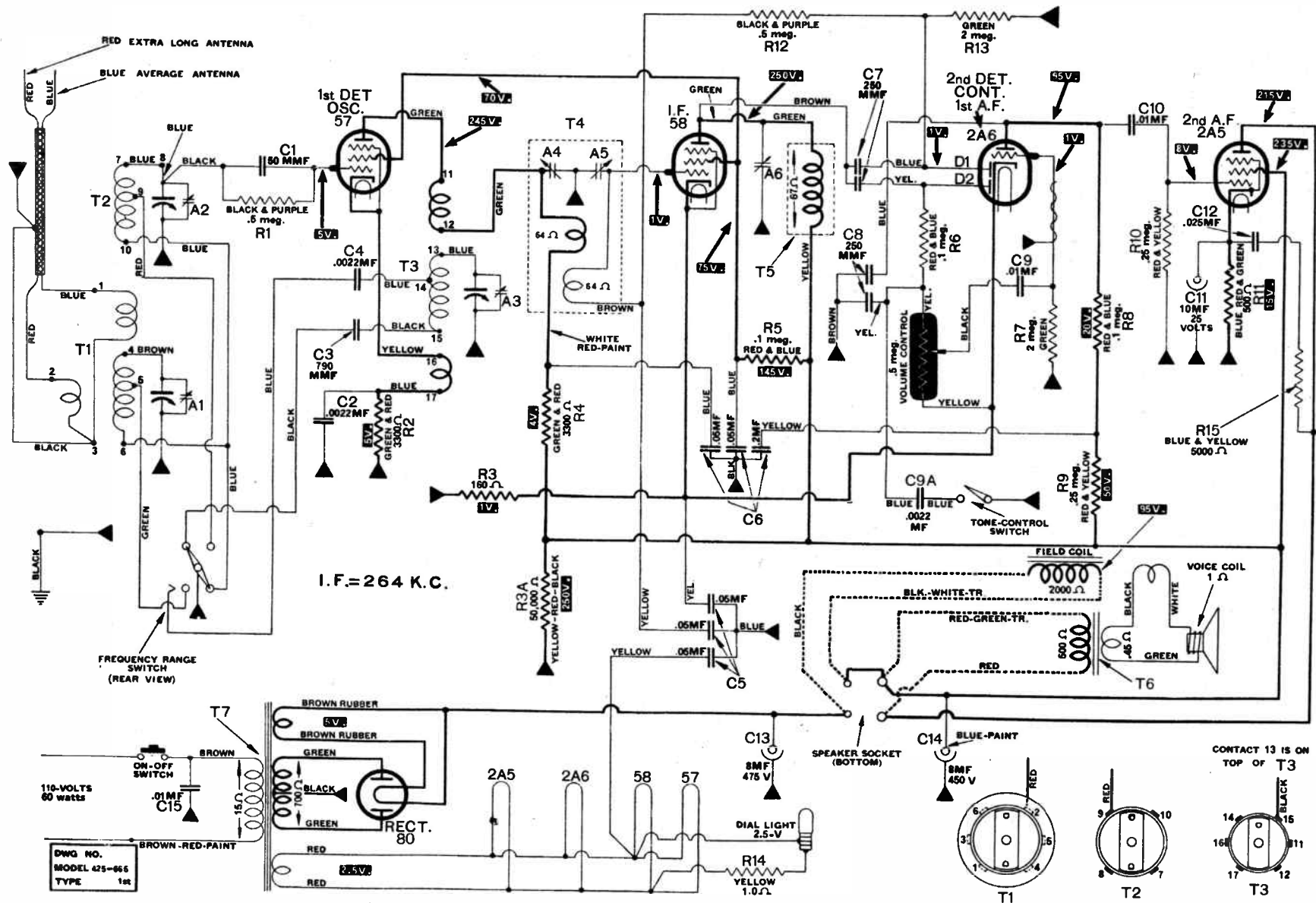
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DIAGRAM OF MODELS 165Q AND 525Q



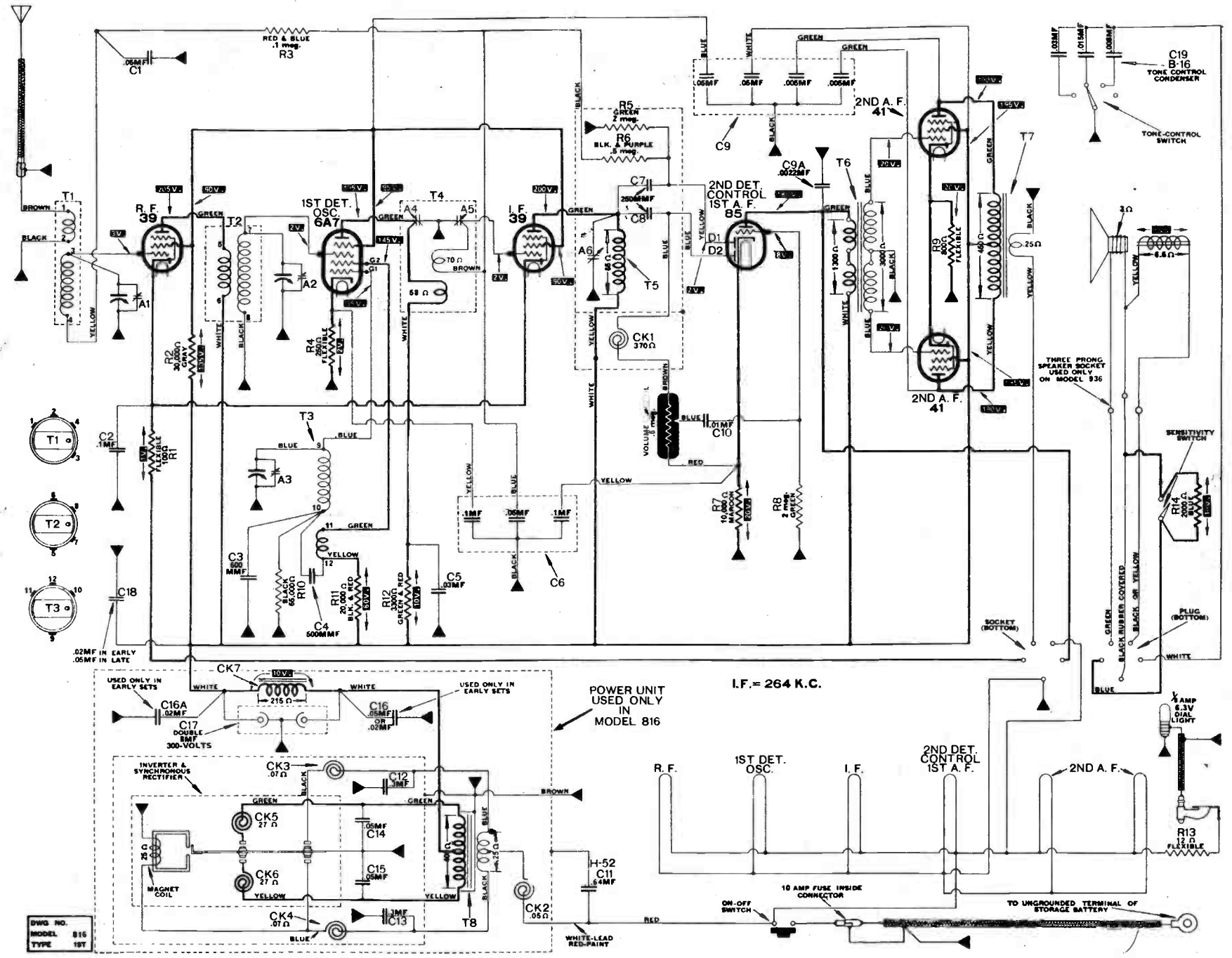
Total "B" voltage at time measurements were made equaled 135 volts. Tube voltages are taken from --F of each tube, using the 250-volt scale of a 1000-ohm-per-volt meter. Resistor R11 is used with 2-volt air cell, but is not used with 2-volt storage cell. In Model 525Q, a 2-volt air-cell dial light (60 mls.) is connected across the filament circuit.

DIAGRAM OF MODELS 425 AND 665



Above voltage measurements were made with 250-volt scale of a 1000-ohm-per-volt meter and a line supply of 115 volts. All measurements are made from cathode of each tube.

DIAGRAM OF MODELS 816, 926 AND 936
 (See Page 1 for Diagram of Power Unit in 926 and 936)



Voltage measurements were made with sensitivity switch at "local" position (switch open).

DWG NO.
 MODEL 816
 TYPE 1ST