



Notes :

1. S₁ : Power source switch in "OFF" position.
2. S₂, S₃ : Clock selector switch in "AUTO" position.
3. DC voltage measurements are taken with circuit tester 10K Ω /volt from chassis ground.
4. Capital letters (M, K, J, P, C, D) in the circuit diagram show allowable tolerance of resistors and capacitors as follows:
M = $\pm 20\%$ K = $\pm 10\%$ J = $\pm 5\%$ P = $+100\%$
C = ± 0.25 PF D = ± 0.5 PF - = 0%
5. P = pico farad = mmf
 μ = micro farad
6. All resistor values in ohms (K = 1000 Ω).
7. All capacitor values in micro farads (P = $\mu\mu$).

Fig. 2-2. Schematic diagram of a Penncrest Model 3530 6-transistor AM table model receiver. (Courtesy J. C. Penney Co.)

TRANSISTORS AND DIODES

Schematic Designation	Part Number	Description
TR ₁	2SA102	Converter
TR ₂	2SA101	1st IF Amplifier
TR ₃	2SA101	2nd IF Amplifier
TR ₄	2SB175	AF Amplifier
TR ₅	2SB178	Power Amplifier (push-pull)
TR ₆	2SB178	
D ₁	OA90	Detector & AGC

COILS AND TRANSFORMERS

Schematic Designation	Part Number	Description
L ₁	RLF-2C25	Antenna Coil
L ₂	RLO-2P63-T	Oscillator Coil
T ₁	RLI-2C151-T	1st IF Transformer
T ₂	RLI-2C250-T	2nd IF Transformer
T ₃	RLI-2C451-T	3rd IF Transformer
T ₄	RLT-3F32-G	Input Transformer, P=3K Ω ; S=3K Ω
T ₅	RLT-2F37-G	Output Transformer, P=200 Ω ; S=8 Ω
T ₆	RLT-5J21-G	Power Transformer

THERMISTOR AND RECTIFIER

Schematic Designation	Part Number	Description
Th	MT-170	Temperature Compensator
Se	D124B	Selenium

CAPACITORS

Schematic Designation	Part Number	Description
C ₃ , C ₆	PVC-2X	Tuning Gang, W/Trimmer (C ₁ , C ₂)
C ₄	ECK-D05472MY	Ceramic 0.0047mfd, $\pm 20\%$
C ₅	ECK-D05103MY	Ceramic 0.01mfd, $\pm 20\%$
C ₇	ECE-A6V30	Electrolytic 30mfd, 6V
C ₈	ECC-D05030C	Ceramic 3mmf, $\pm 0.25\text{pf}$
C ₉	ECK-D05223P	Ceramic 0.022mfd, +100% - 0%
C ₁₀	ECK-D05223P	Ceramic 0.022mfd, +100% - 0%
C ₁₁	ECK-D05223P	Ceramic 0.022mfd, +100% - 0%
C ₁₂	ECK-D05333P	Ceramic 0.033mfd, +100% - 0%
C ₁₃	ECE-A6V200	Electrolytic 200mfd, 6V
C ₁₄	ECE-A15V3	Electrolytic 3mfd, 15V
C ₁₅	ECE-A6V50	Electrolytic 50mfd, 6V
C ₁₆	ECQ-G05223MZ-N	Polyester 0.022mfd, $\pm 20\%$
C ₁₇	ECQ-G05472MZ-N	Polyester 0.0047mfd, $\pm 20\%$
C ₁₈	ECQ-G05472MZ-N	Polyester 0.0047mfd, $\pm 20\%$
C ₁₉	ECE-A10V200	Electrolytic 200mfd, 10V

RESISTORS

Schematic Designation	Part Number	Description
R ₁	ERD-14VK 330	Fixed, Carbon Film 33 Ω , $\pm 10\%$
R ₂	ERD-14VK 562	Fixed, Carbon Film 5.6K Ω , $\pm 10\%$
R ₃	ERD-14VK 473	Fixed, Carbon Film 47K Ω , $\pm 10\%$
R ₄	ERD-14VK 152	Fixed, Carbon Film 1.5K Ω , $\pm 10\%$
R ₅	ERD-14VK 473	Fixed, Carbon Film 47K Ω , $\pm 10\%$
R ₆	ERD-14VK 821	Fixed, Carbon Film 820 Ω , $\pm 10\%$
R ₇	ERD-14VK 274	Fixed, Carbon Film 270K Ω , $\pm 10\%$
R ₈	ERD-14VK 392	Fixed, Carbon Film 3.9K Ω , $\pm 10\%$
R ₉	ERD-14VK 153	Fixed, Carbon Film 15K Ω , $\pm 10\%$
R ₁₀	ERD-14VK 681	Fixed, Carbon Film 680 Ω , $\pm 10\%$
R ₁₁	ERD-14VK 472	Fixed, Carbon Film 4.7K Ω , $\pm 10\%$
R ₁₂	EVC-BOAL30A53	5K Ω (A), Volume Control
R ₁₃	ERD-14VK 273	Fixed, Carbon Film 27K Ω , $\pm 10\%$
R ₁₄	ERD-14VK 562	Fixed, Carbon Film 5.6K Ω , $\pm 10\%$
R ₁₅	ERD-14VK 561	Fixed, Carbon Film 560 Ω , $\pm 10\%$
R ₁₆	ERD-14VK 821	Fixed, Carbon Film 820 Ω , $\pm 10\%$
R ₁₇	ERD-14VK 221	Fixed, Carbon Film 220 Ω , $\pm 10\%$
R ₁₈	ERD-14VK 472	Fixed, Carbon Film 4.7K Ω , $\pm 10\%$
R ₁₉	ERD-14VK 4R7	Fixed, Carbon Film 4.7K Ω , $\pm 10\%$
R ₂₀	ERD-14VK 471	Fixed, Carbon Film 470 Ω , $\pm 10\%$
R ₂₁	ERD-14TK 270	Fixed, Carbon Film 27 Ω , $\pm 10\%$

Fig. 2-3. Parts list for the Penncrest Model 3530 AM radio in Fig. 2-2. (Courtesy J. C. Penney Co.)