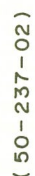
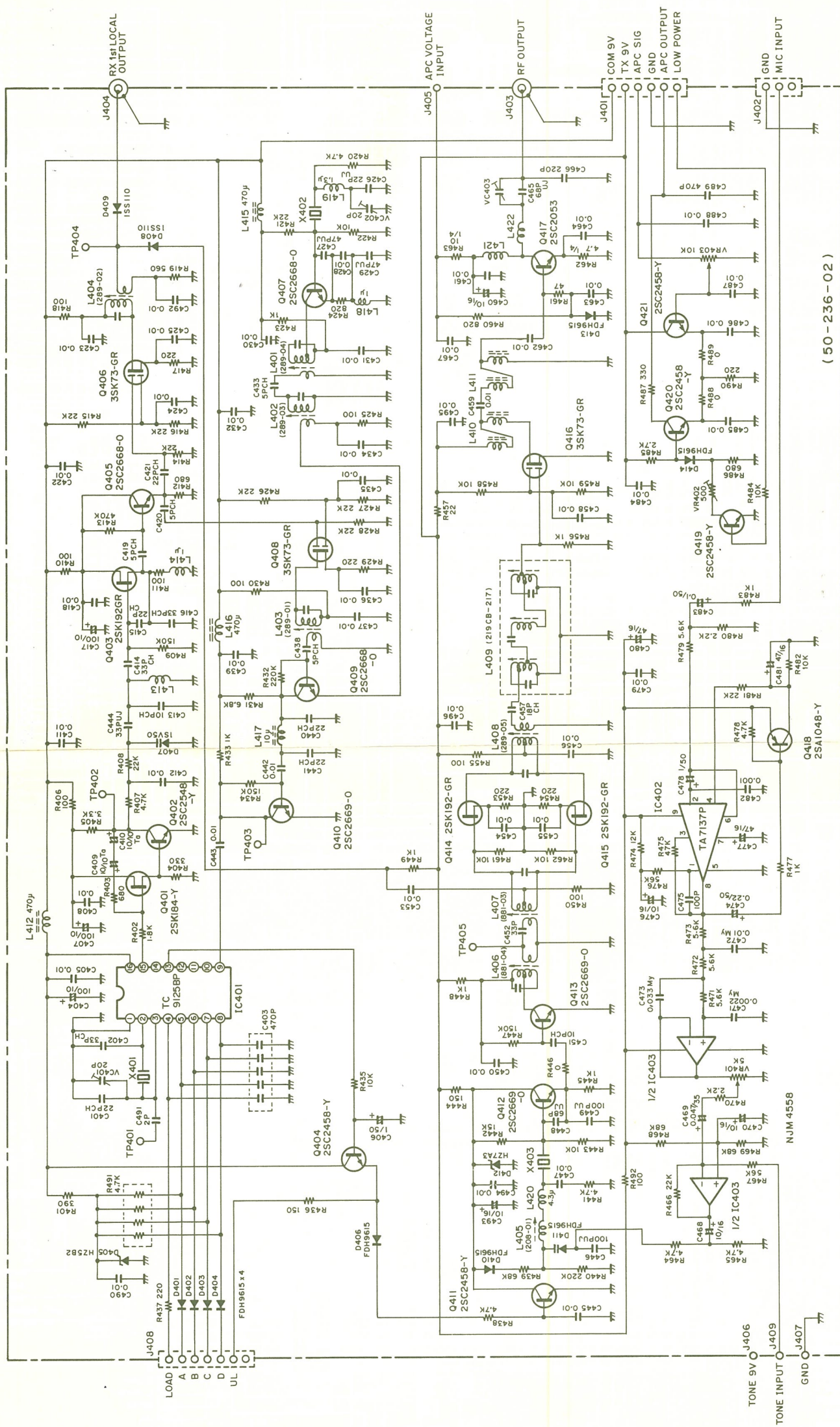


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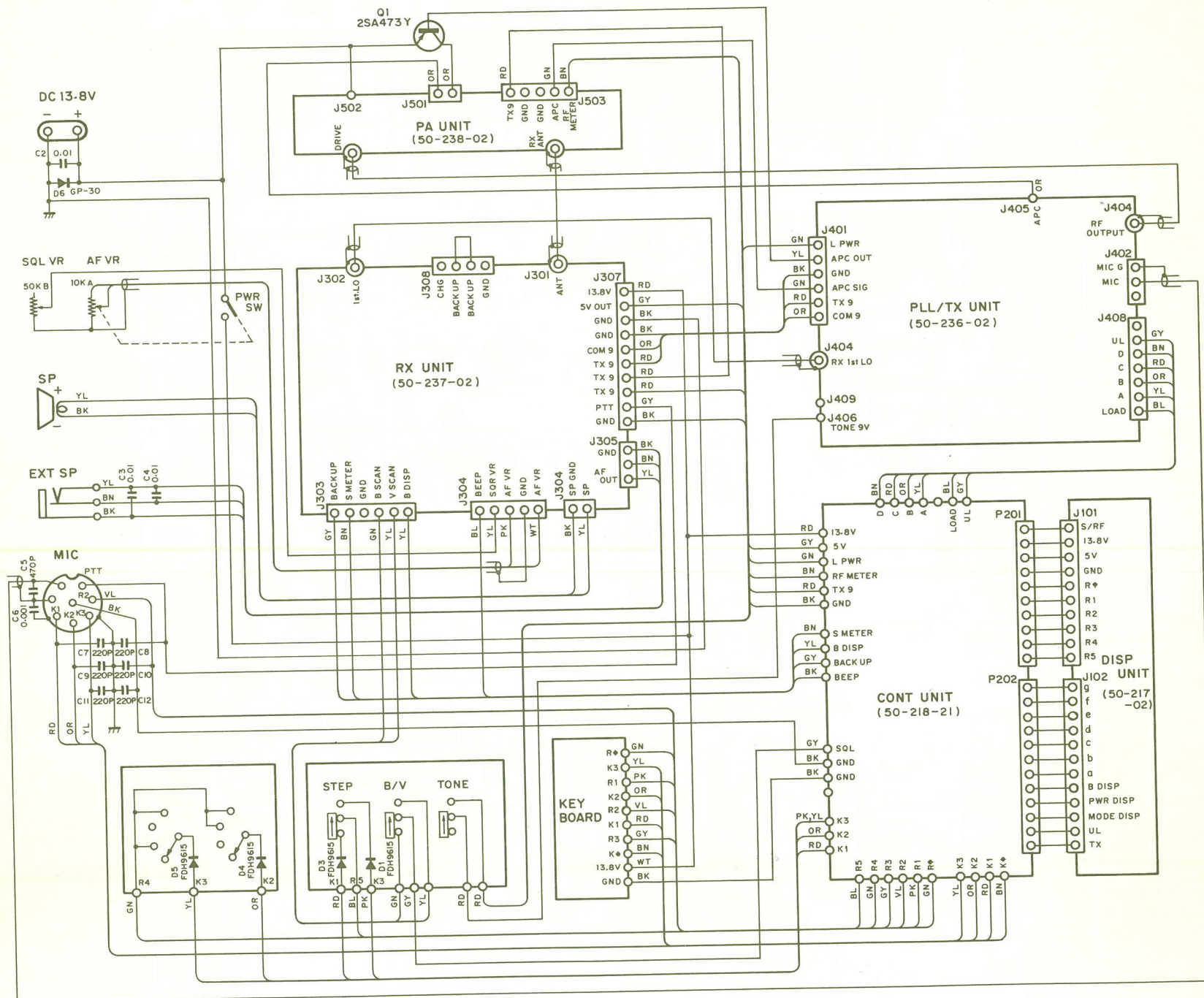


PLL/TX

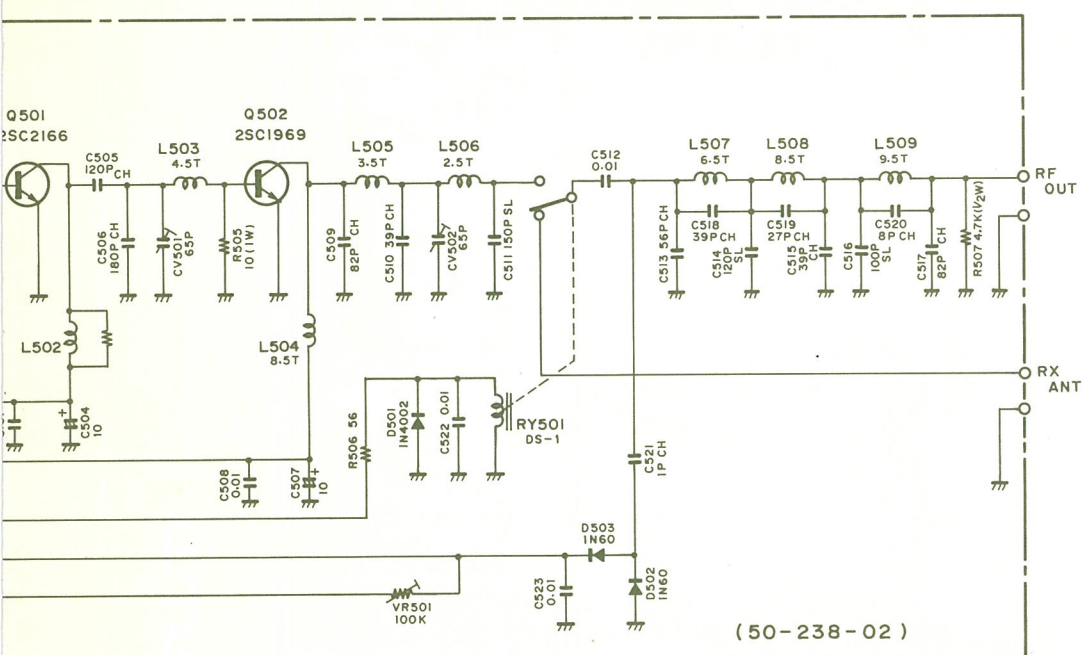
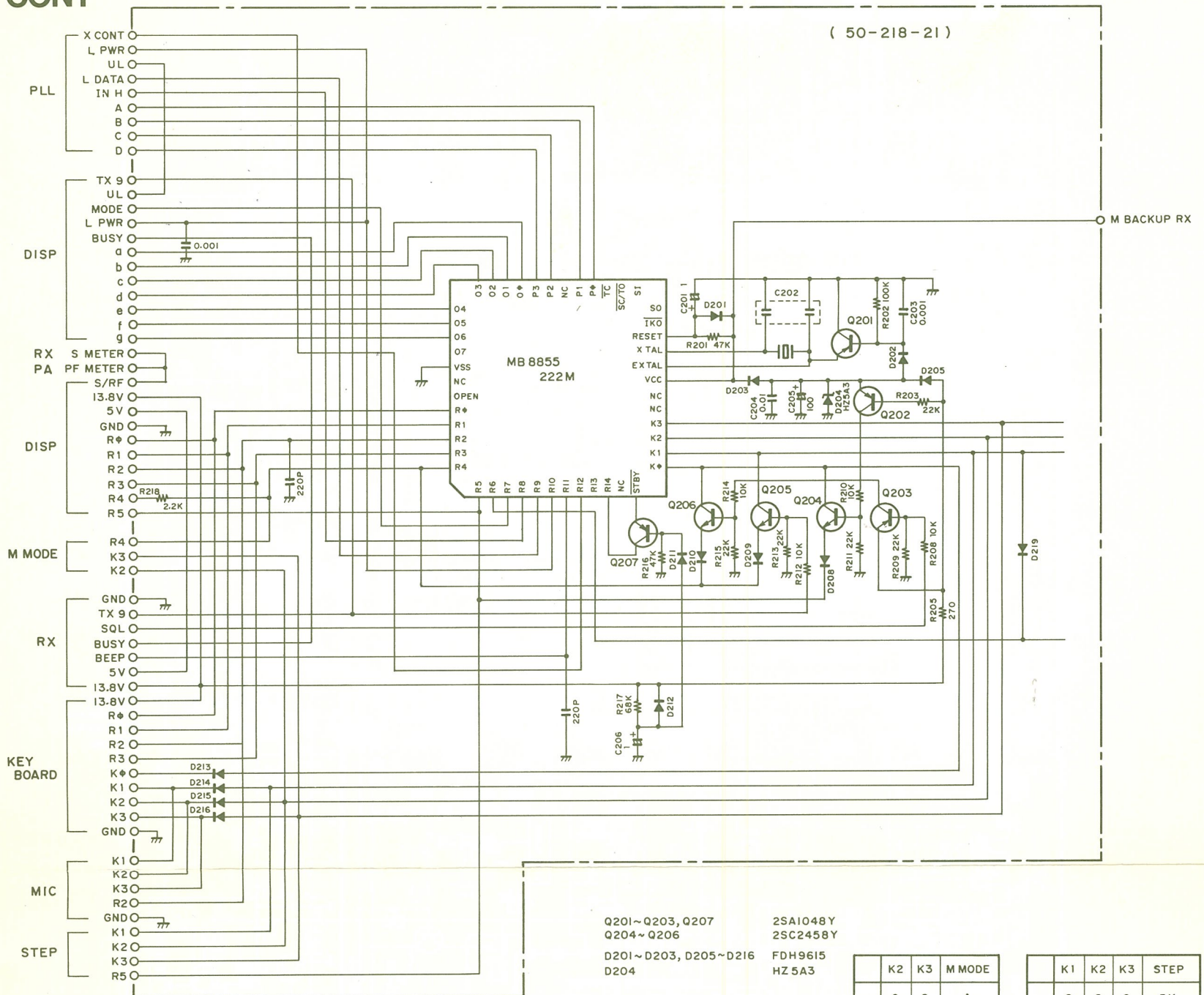


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AZDEN®



CONT



UNIT

Ω
 μF

Some components subject to change for an improvement without notice.

PROCESSING MOBILE TRANSCEIVER

PCS-4800

SCHEMATIC
DIAGRAM

02

The schematic diagram illustrates the control circuitry for a 600W ultrasonic welding machine. It features several integrated circuits (ICs), transistors, diodes, resistors, and capacitors connected to a power supply and various control inputs.

Key Components:

- IC103:** BA 6104, a multi-stage amplifier.
- IC101:** M 54561 P, a monostable multivibrator.
- IC102:** LB 1264, another monostable multivibrator.
- TLG 4115:** A timing or logic component with multiple pins labeled UL DP +600-600, D1, D2, D3, D4, REV, and MMM.
- Transistors:** Q101, Q102, Q103, and Q104 are used as switching elements.
- Diodes:** D101 through D119 provide rectification and signal conditioning.
- Resistors:** R101 through R122 define current levels and timing constants.
- Capacitors:** C101, C102, and C103 manage charge storage and filtering.

Connections and Signals:

- The circuit is powered by a 13.8V supply (S/R F) and ground (GND).
- Control signals include S/R F, 5V, GND, R1, R2, R3, R4, R5, BUSY, L PWR, MODE, IUL, and TX.
- Internal node labels like J101, J102, and J103 indicate specific connection points within the circuit.

Component List:

Label	Value / Part Number
D102 ~ D109	AA 2434 D
D110	BG 2434 D
D111	PY 4632 K
D112	BG 4632 K
D113	PR 4632 K
D114 ~ D118	AA 4632 K
D119	IN 4002
D120	FDH 9615
Q101 ~ Q103	2SC 2458 Y
Q104	2SC 2710 Y

(50-217-02)

PROCESSIN

PCS-1

[illegible]

	K2	K3	M MODE
R4	0	0	A
	0	S	B
	S	0	A - B
	S	S	A $\times$ B

	R Φ	R1	R2	R3
K3	MHz UP	100K UP	KHz UP	REV
K2	MHz DN	100K DN	KHz DN	H/L
K1	M SCAN	M ADRS	M1A CALL	SHIFT
K Φ	P SCAN	M CALL	M1B CALL	M WRITE

R5	

The schematic diagram illustrates the RF section of a radio receiver. It begins with an RF input (RF IN) connected to a series of components: resistor R501 (5.6k), resistor R503 (5.6k), capacitor C501 (200pF), and inductor L501 (5.5T). This is followed by a second series of components: resistor R502 (220k), capacitor C502 (330pF), and inductor L504 (220k). The signal then enters the first tuned circuit, which consists of transistor Q501 (2SC166) and inductor L502 (8.5T). The output of Q501 is connected to a second series of components: resistor R504 (220k), capacitor C506 (180pF), and inductor L503 (4.5T). This is followed by a second tuned circuit, which consists of transistor Q502 (2SC1969) and inductor L504 (8.5T). The output of Q502 is connected to a series of components: resistor R505 (10k), capacitor C509 (82pF), and inductor L505 (3.5T). This is followed by a third series of components: resistor R506 (56k), capacitor C510 (39pF), and inductor L506 (2.5T). The signal then enters a mixer stage, which consists of transistor Q503 (2SC166) and inductor L507 (6.5T). The output of Q503 is connected to a series of components: resistor R507 (4.7k), capacitor C511 (50pF), and inductor L508 (8.5T). This is followed by a final series of components: resistor R508 (10k), capacitor C512 (0.01F), and inductor L509 (9.5T). The output of the RF section is connected to the RF output (RF OUT). The circuit also includes various other components: resistor R501 (5.6k), resistor R502 (220k), resistor R503 (5.6k), resistor R504 (220k), resistor R505 (10k), resistor R506 (56k), resistor R507 (4.7k), resistor R508 (10k), resistor R509 (10k), resistor R510 (10k), resistor R511 (10k), resistor R512 (10k), resistor R513 (10k), resistor R514 (10k), resistor R515 (10k), resistor R516 (10k), resistor R517 (10k), resistor R518 (10k), resistor R519 (10k), resistor R520 (10k), resistor R521 (10k), resistor R522 (10k), resistor R523 (10k), resistor R524 (10k), resistor R525 (10k), resistor R526 (10k), resistor R527 (10k), resistor R528 (10k), resistor R529 (10k), resistor R530 (10k), resistor R531 (10k), resistor R532 (10k), resistor R533 (10k), resistor R534 (10k), resistor R535 (10k), resistor R536 (10k), resistor R537 (10k), resistor R538 (10k), resistor R539 (10k), resistor R540 (10k), resistor R541 (10k), resistor R542 (10k), resistor R543 (10k), resistor R544 (10k), resistor R545 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