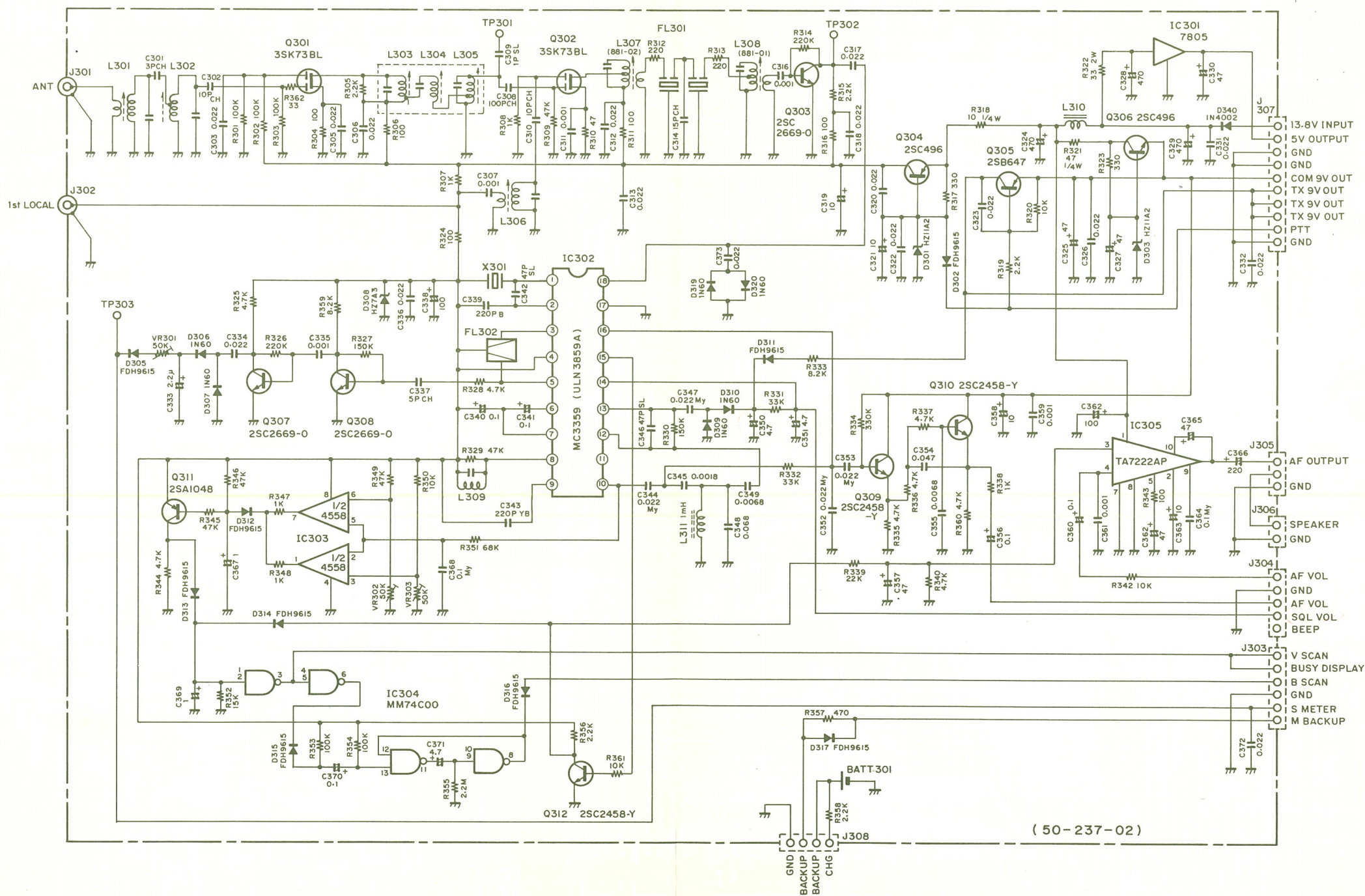
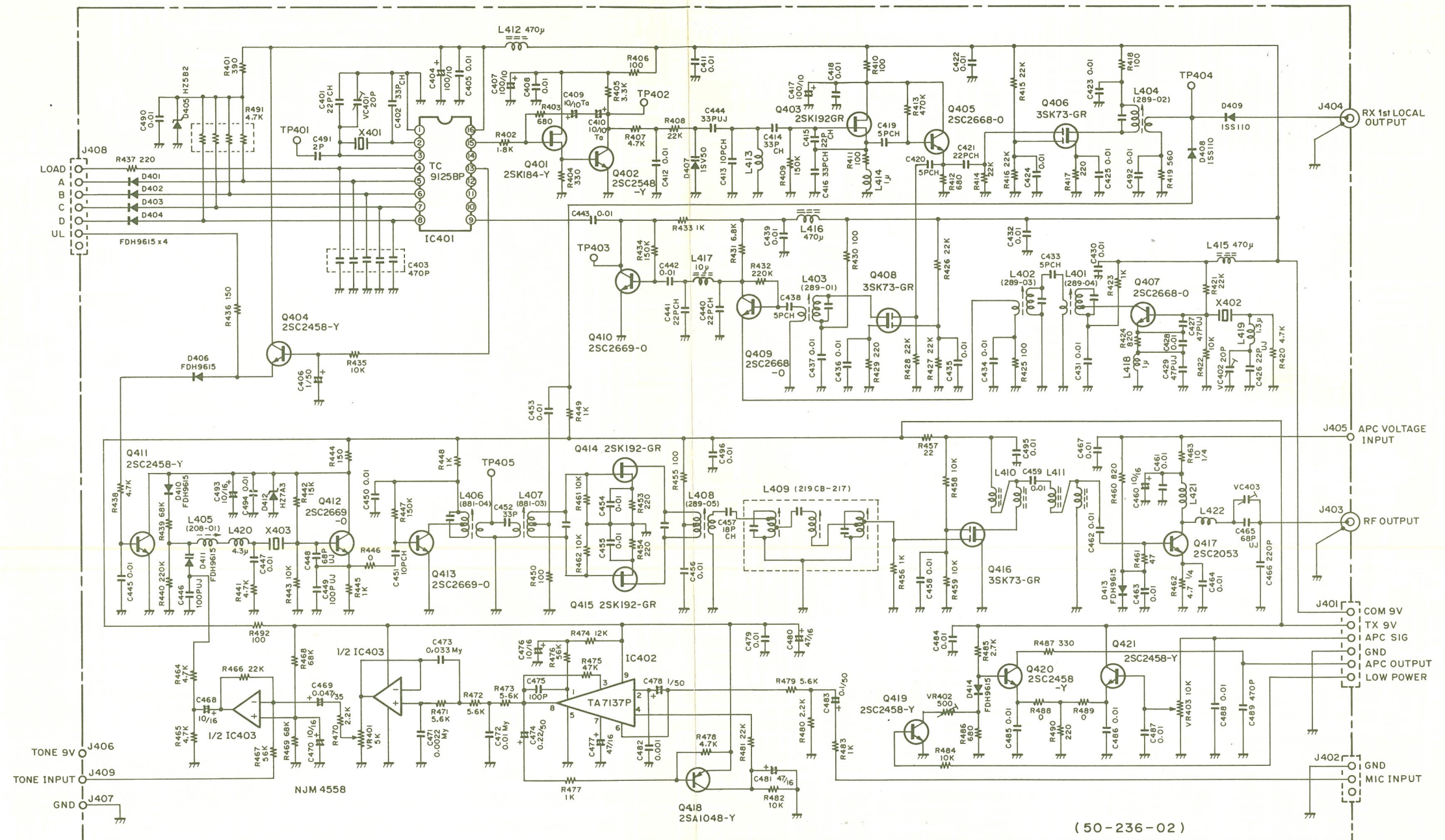


RX

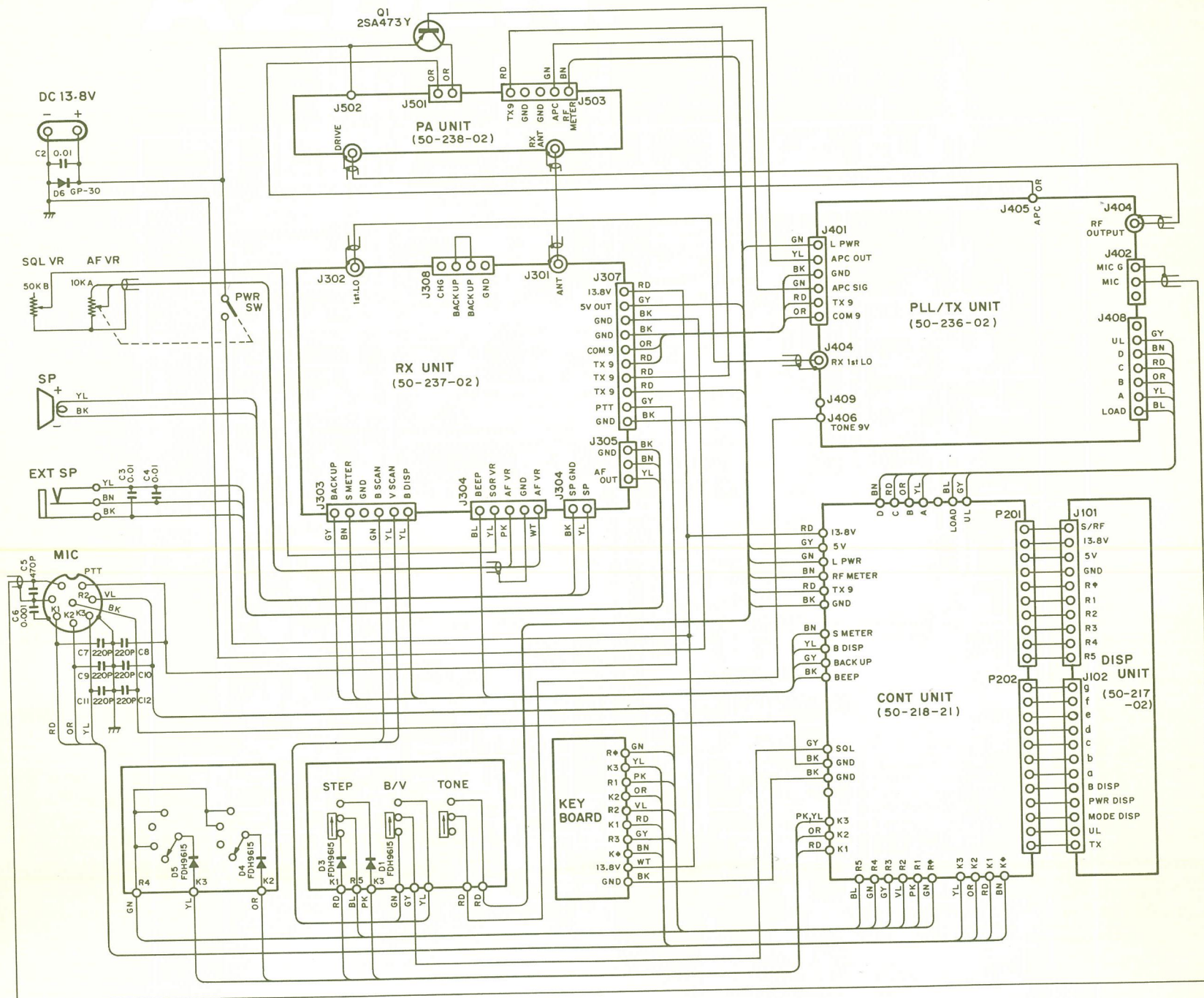


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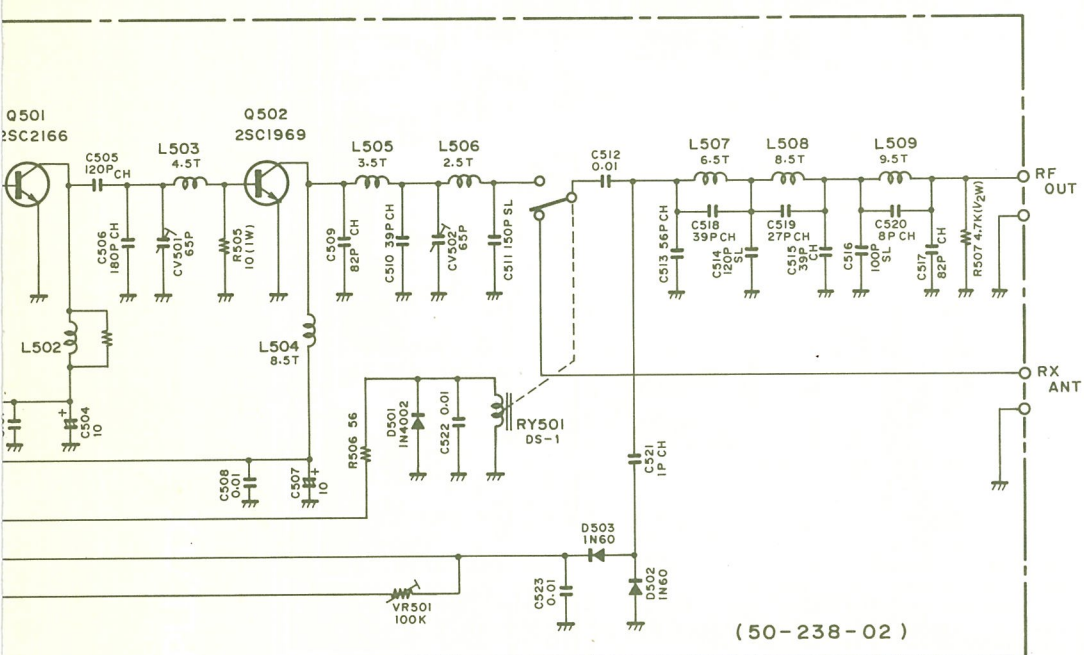
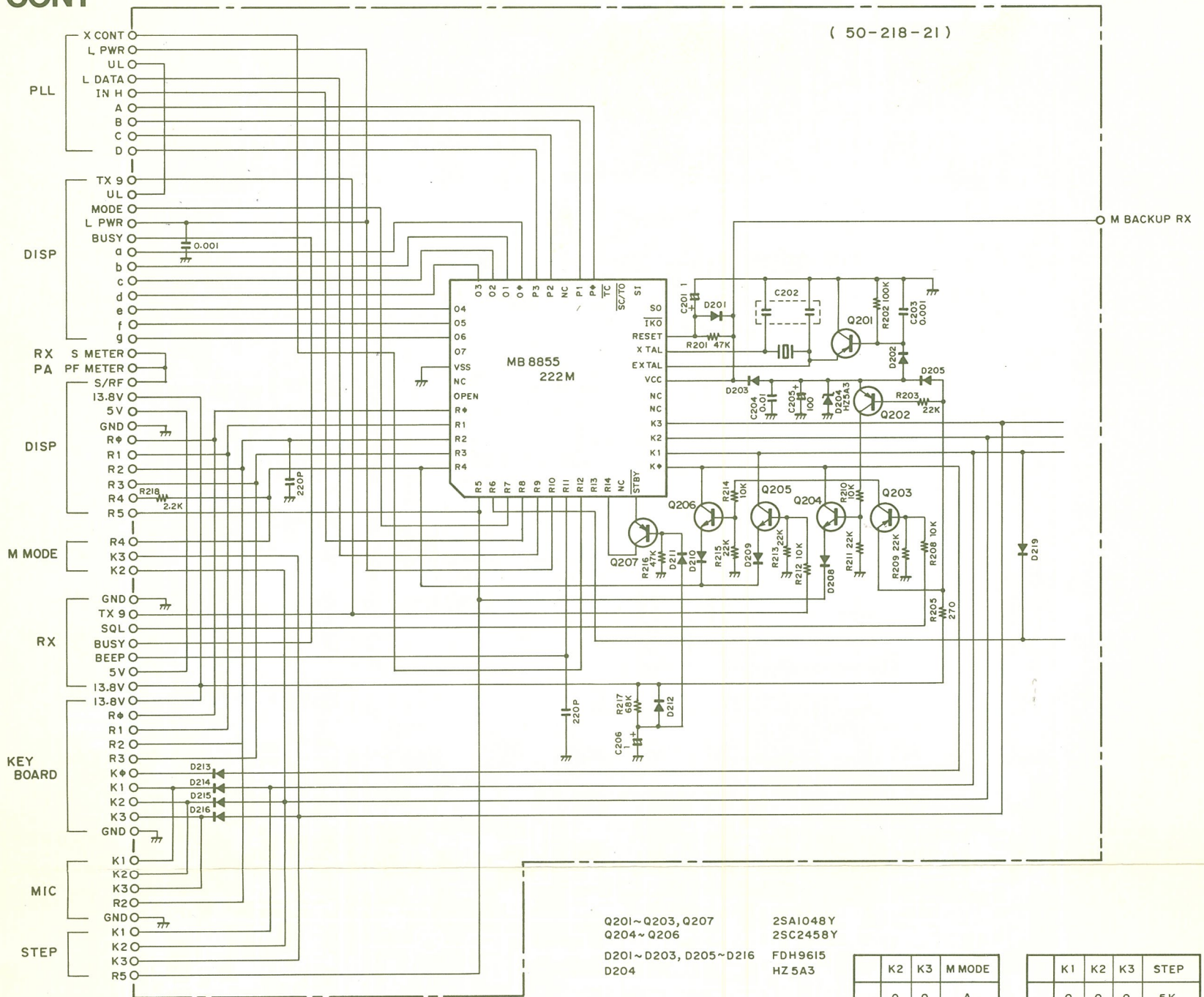
PLL/TX



AZDEN®



CONT



UNIT Ω
 μF

Some components subject to change for an improvement without notice.

PROCESSING MOBILE TRANSCEIVER

PCS-4800

SCHEMATIC
DIAGRAM

02

[illegible]

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), capacitor C501 (200pF), inductor L501 (5.5T), and capacitor C502 (330pF). This is followed by a first tuned circuit consisting of inductor L502 (8.5T) and capacitor C503 (0.01F). The signal then passes through a second tuned circuit with inductor L503 (4.5T) and capacitor C504 (10pF). The core of the circuit is a mixer/detector stage using a 2SC2166 transistor (Q501), which is biased by a 13.8V supply through a network of resistors (R505, R506, R507, R508) and capacitors (C505, C506, C507, C508). The output of the mixer is coupled to a second tuned circuit with inductor L504 (8.5T) and capacitor C509 (0.01F). This is followed by a detector stage using a 2SC1969 transistor (Q502), which is biased by a 13.8V supply through a network of resistors (R509, R510, R511, R512) and capacitors (C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523). The output of the detector is connected to a push-pull audio output stage using two 2N3055 transistors (Q503, Q504), which are biased by a 13.8V supply through a network of resistors (R513, R514, R515, R516) and capacitors (C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916, C917, C918, C919, C920, C921, C922, C923, C924, C925, C926, C927, C928, C929, C930, C931, C932, C933, C934, C935, C936, C937, C938, C939, C940, C941, C942, C943, C944, C945, C946, C947, C948, C949, C950, C951, C952, C953, C954, C955, C956, C957, C958, C959, C960, C961, C962, C963, C964, C965, C966, C967, C968, C969, C970, C971, C972, C973, C974, C975, C976, C977, C978, C979, C980, C981, C982, C983, C984, C985, C986, C987, C988, C989, C990, C991, C992, C993, C994, C995, C996, C997, C998, C999, C1000, C1001, C1002, C1003, C1004, C1005, C1006, C1007, C1008, C1009, C1010, C1011, C1012, C1013, C1014, C1015, C1016, C1017, C1018, C1019, C1020, C1021, C1022, C1023, C1024, C1025, C1026, C1027, C1028, C1029, C1030, C1031, C1032, C1033, C1034, C1035, C1036, C1037, C1038, C1039, C1040, C1041, C1042, C1043, C1044, C1045, C1046, C1047, C1048, C1049, C1050, C1051, C1052, C1053, C1054, C1055, C1056, C1057, C1058, C1059, C1060, C1061, C1062, C1063, C1064, C1065, C1066, C1067, C1068, C1069, C1070, C1071, C1072, C1073, C1074, C1075, C1076, C1077, C1078, C1079, C1080, C1081, C1082, C1083, C1084, C1085, C1086, C1087, C1088, C1089, C1090, C1091, C1092, C1093, C1094, C1095, C1096, C1097, C1098, C1099, C1100, C1101, C1102, C1103, C1104, C1105, C1106, C1107, C1108, C1109, C1110, C1111, C1112, C1113, C1114, C1115, C1116, C1117, C1118, C1119, C1120, C1121, C1122, C1123, C1124, C1125, C1126, C1127, C1128, C1129, C1130, C1131, C1132, C1133, C1134, C1135, C1136, C1137, C1138, C1139, C1140, C1141, C1142, C1143, C1144, C1145, C1146, C1147, C1148, C1149, C1150, C1151, C1152, C1153, C1154, C1155, C1156, C1157, C1158, C1159, C1160, C1161, C1162, C1163, C1164, C1165, C1166, C1167, C1168, C1169, C1170, C1171, C1172, C1173, C1174, C1175, C1176, C1177, C1178, C1179,

PROCESSIN

PCS-1



(50-218-21)

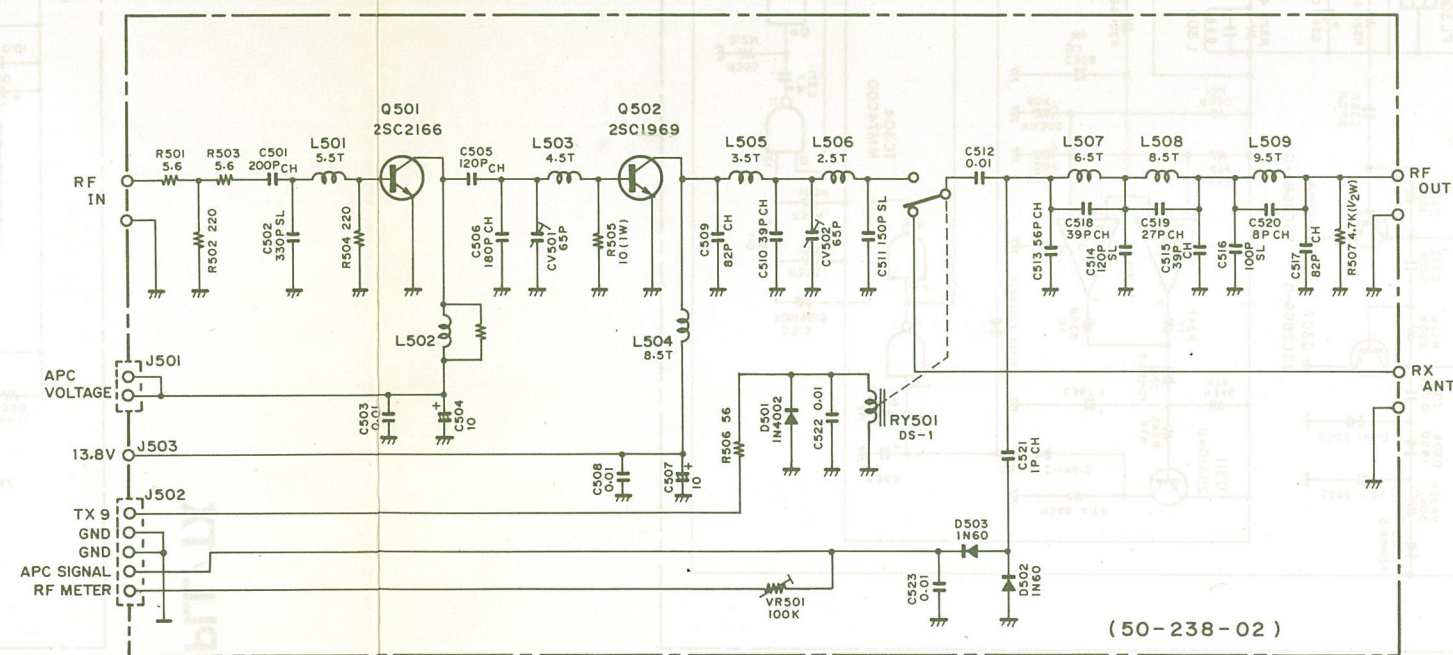
The schematic diagram illustrates the internal architecture of the MB8855 222M microcomputer. The central component is the MB8855 222M chip, which has multiple pins connected to various external components. On the left side, there are several input/output groups: PLL (X CONT, L PWR, UL, L DATA, IN H, A, B, C, D), DISP (TX 9, UL, MODE, L PWR, BUSY, a, b, c, d, e, f, g), RX PA (S METER, PF METER, S/RF, 13.8V, 5V, GND, R, R1, R2, R3, R4, R5), M MODE (R4, K3, K2), RX (GND, TX 9, SQL, BUSY, BEEP, 5V, 13.8V, 13.8V, R, R1, R2, R3, K, K1, K2, K3, GND), KEY BOARD (K, D213, D214, D215, D216, K1, K2, K3, GND), MIC (K1, K2, K3, R2, GND), and STEP (K1, K2, K3, R5). The right side shows the output drivers and timing components, including transistors Q201 through Q207, diodes D201 through D216, resistors R201 through R217, capacitors C201 through C206, and a crystal oscillator X TAL. The bottom right corner contains a legend for the components used:

Q201~Q203, Q207	2SA1048Y
Q204~Q206	ZSC2458Y
D201~D203, D205~D216	FDH9615
D204	HZ 5A3

K2	K3	M MODE
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[illegible]

PA



(50-238-02)