parts list

TRN5363A Receiver Flat Audio Board (72-76 MHz) PL-8136-C

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		capacitor, fixed: uF ±10%; 100 V: unless otherwise stated
C201	23-83210A01	25 +150-10%; 25 V
C202	23-82783B36	39; 10 V
C203	23-84762H10	22 ±20%; 15 V
C204	8-83813H12	.0047
C205	8-83813H11	0.22; 75 V
C206	8-83813H29	0.33; 50 V
C207	23-82783B24	15; 25 V
C208	8-83813H01	.0068
C209		NOT USED
C210	8-83813H16	.022 ±5%; 50 V
C211	8-83813H11	0.22; 75 V
C212	21-848236	650 pF ±5%; 500 V
C213	8-83813H11	0.22; 75 V
C214	23-84081B03	75 +150-10%; 15 V
C215	8-83813H11	0.22; 75 V
C216	21-82187B31	1500 pF
C217	21-82187B43	.0039; 200 V
C218	8-83813H11	0.22; 75 V
C219		NOT USED
C220	21-83406D46	56 pF ±5%; 500 V; N150
C221	23-84081B01	50 +100-10%; 25 V
C222	23-83210A08	100 +150-10%; 25 V
C223, 224	21-82372C04	.05 +80-20%; 25 V
C225	8-82905G16	.033
C226	21-859942	220 pF ±5%; 500 V
C227	8-83813H07	0.15; 75 V
C228	21-84426B63	1500 pF ±5%
C229	23-84762H07	4.7 ±20%; 10 V
C230	21-84426B06	100 pF ±5%; 500 V
C231	21-84493B05	1000 pF; 200 V; N2200
C232	21-82133G03	100 pF ±5%; 500 V; N750
C233	21-84426B11	470 pF ±5%; 500 V
C234	8-83813H31	.01; 100 V
C235	8-83813H11	0.22; 75 V
C236	23-84762H08	3.9 ±20%; 15 V
C237		NOT USED
C238	21-82372C01	0.1 +80-20%; 25 V
C239	21-83596E10	220 pF ±20%; 500 V
C240	21-832501	.01 +60-40%; 250 V
C241, 242	21-83596E10	220 pF ±20%; 500 V
C243	21-832501	.01 +60-40%; 250 V
C244	21-82133G03	100 pF ±5%; 500 V
C245, 246		NOT USED
C247, 248	21-832501	.01 +60-40%; 250 V
C249, 250	21-83596E10	220 pF ±20%; 500 V
C251	21-84426B11	470 pF ±5%; 500 V
		diode: (see note)
CR201	48-83654H01	silicon
		connector, plug:
P201	29-84028H02	terminal, male; PCB mount; 9 used
P202	29-84028H02	terminal, male; PCB mount; 6 used
P903	29-84028H01	terminal, male; PCB mount; 18 used
		transistor: (see note)
Q203	48-869642	NPN; type M9642
		resistor, fixed: ±5%; 1/4 W: unless otherwise stated
R201, 202	6-11009C61	3.3k
R203	18-83083G24	variable: 25k ±30%
R204	6-11009C05	15
R205	6-11009C49	1k
R206	6-11009C93	68k
R207	6-11009C99	120k
R208	6-11009C73	10k
R209	6-11009C17	47
R210	6-11009C51	1.2k
R211	6-11009C63	3.9k
R212	6-11009C49	1k
R213	6-11009C97	100k
R214	6-11009C89	47k
R215	6-11009C49	1k
R216	6-11009C57	2.2k
R217	6-11009C01	10
R218, 219	6-11009C09	22
R220, 221	6-11009C71	8.2k
R222	6-11009C95	82k
R223	6-11009C83	27k
R224	6-11009C43	560
R225, 226	6-11009C17	47
R227, 228	6-11009C61	3.3k
R229 thru 231		NOT USED
R232	6-11009C81	22k
R233		NOT USED
R234	6-11009C83	27k
R235	6-11009D04	180k ±10%
R236	6-11009C89	47k
R237	6-11009C75	12k
		transformer, af:
T201	25-84083B02	pri: split winding; total res 0.5 ohms max sec: res 0.8 ohms max feedback: res 2 ohms max

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		integrated circuit: (see note)
U201	51-84267A08	type M6708
U202	51-83977M16	type M7716
		diode: (see note)
VR1	48-82256C38	Zener; 9.1 V; 400 mW
		non-referenced items
	42-84284B01	RETAINER: 4 req'd.
	3-138162	SCREW, tapping: Phillips rd. hd., 4-40 × 3/8"; 4 req'd. (used for mounting retainers)
	55-84300B01	HANDLE (long)
	55-84300B02	HANDLE (short)
	29-84028H02	TERMINAL, male; PCB mount; 9 used

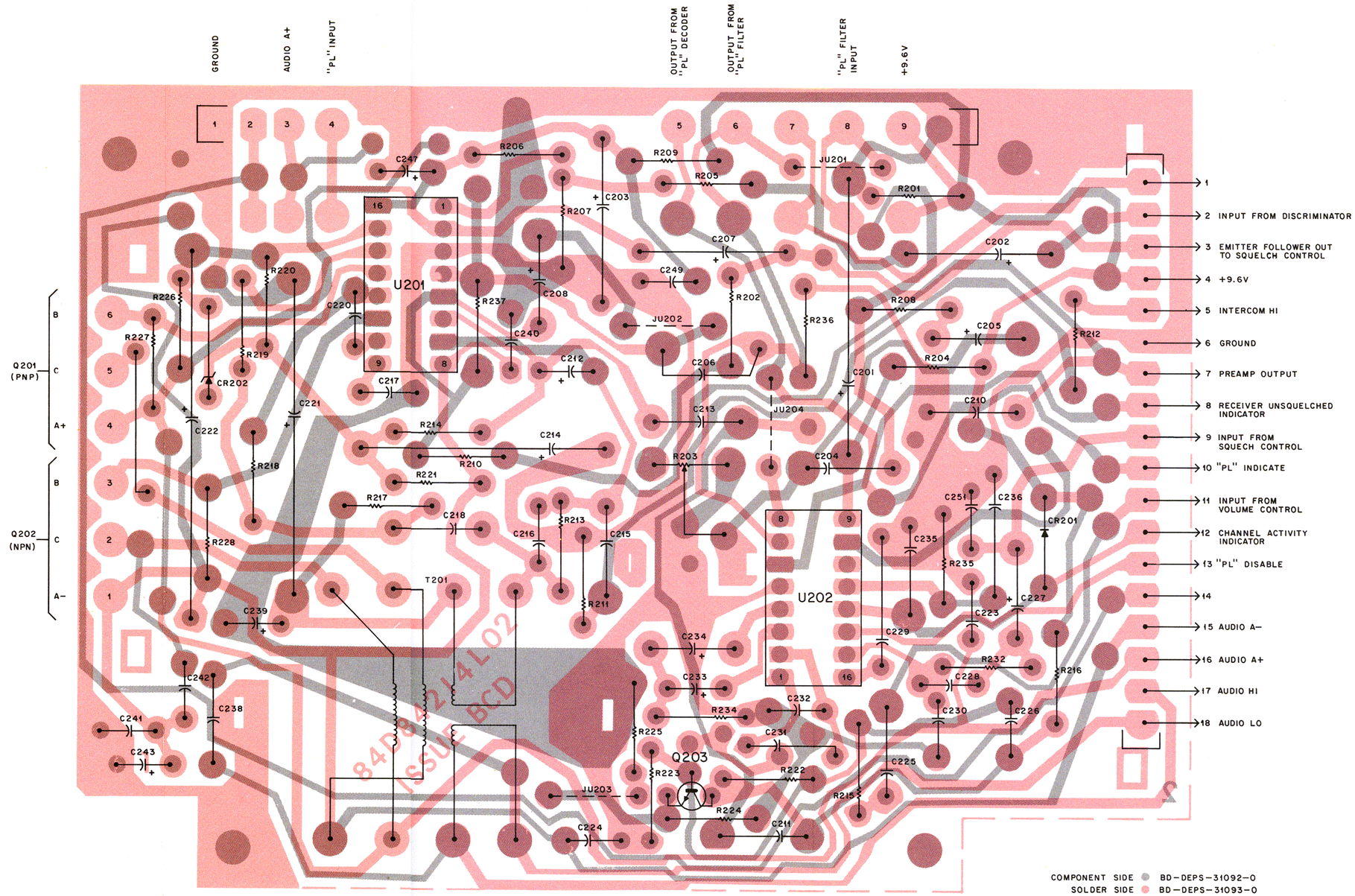
note: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part numbers.

RECEIVER FLAT AUDIO BOARD

MODEL TRN5363A

FUNCTION

TRN5363A Receiver Flat Audio Board contains the receiver audio and squelch circuits. The audio circuits do not de-emphasize the audio signals.



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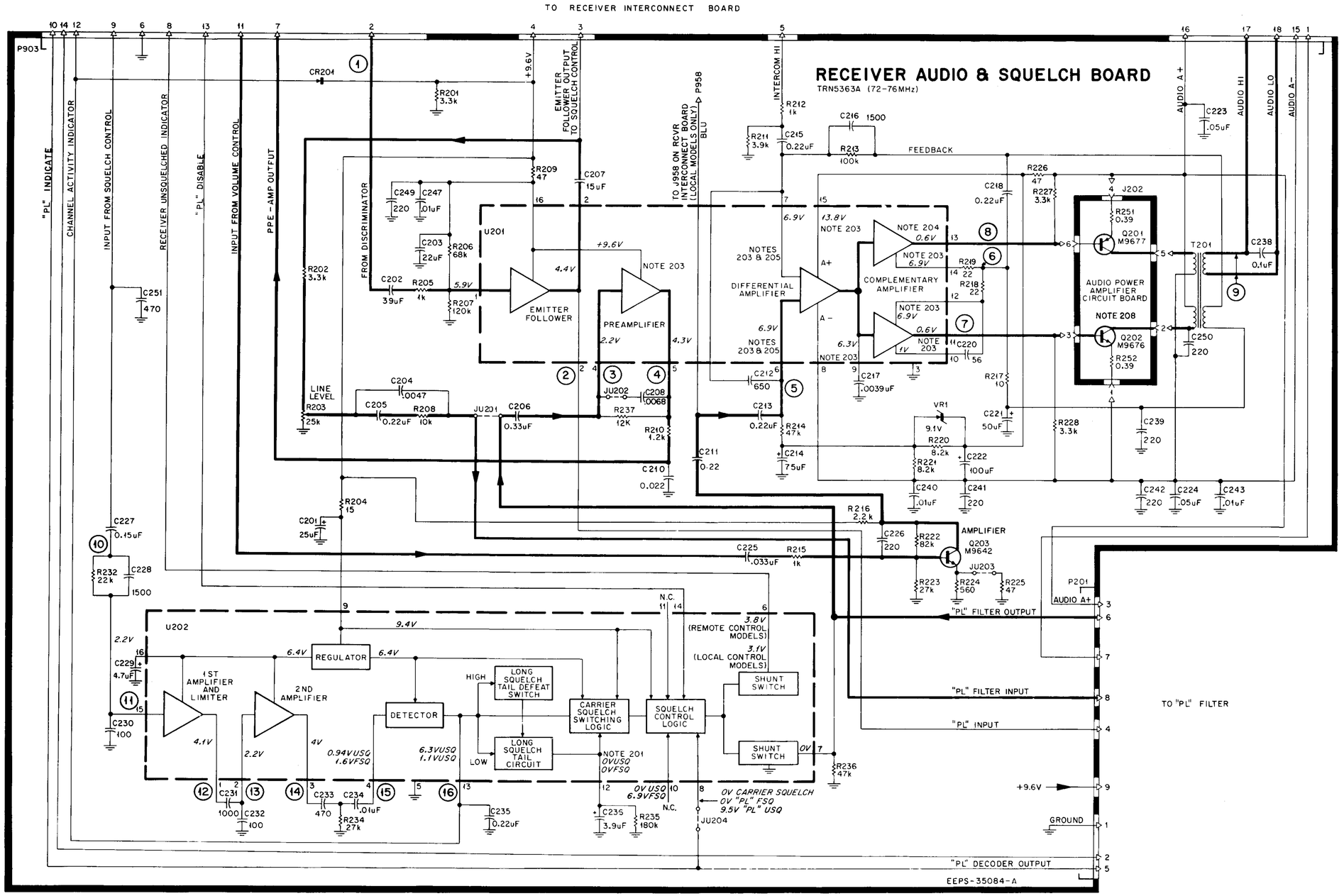
RECEIVER FLAT AUDIO BOARD

MODEL TRN5363A



NOTES:

201. +5.6 VOLTS WHEN THRESHOLD SIGNAL JUST OPENS SQUELCH (I.E., APPROXIMATELY 6 dB QUIETING SIGNAL WITH SQUELCH CONTROL AT THRESHOLD).
202. WHERE MORE THAN ONE VOLTAGE READING APPEARS: USQ = RECEIVER UNSQUELCHED FSQ = RECEIVER FULLY SQUELCHED
203. VOLTAGE MEASURED WITH RESPECT TO A-.
204. VOLTAGE MEASURED WITH RESPECT TO A+.
205. VOLTAGES AT U201-6 AND -7 MUST BE THE SAME VALUE.
206. UNLESS OTHERWISE STATED: CAPACITOR VALUES ARE IN PICOFARADS.
207. UNLESS OTHERWISE STATED, VOLTAGE MEASUREMENTS ARE FOR DC VOLTAGES ± 10% MEASURED WITH AN 11 MEGOHM INPUT RESISTANCE VOLTMETER WITH RESPECT TO CHASSIS GROUND.
208. AUDIO POWER AMPLIFIER IS NOT PART OF AUDIO & SQUELCH BOARD.
209. REFER TO THE SYSTEM INFORMATION SECTION OF THIS MANUAL FOR JUMPER DETAILS.

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