

RN6320 CIRCUIT EXPLANATION

FCC ID : AA06004257R

- 1) The RF. (Radio Frequency) inputted through The ANT., is passed to the Super-regenerative receiver, formed by TR1, where the Action Signal is detected.
- 2) The Action Signal is decoded in the control IC1., and is sent to each output terminal.
- 3) TR2, 3,4,5,6 and 7 form the left side motor control circuit.
 - (3-1) Forward motion for motor of left side.

IC1..14P. (Pin) is turned on, and TR2, 4,and 7are tuned on to make a forward motion.
 - (3-2) Backward motion for motor of left side.

IC1..13P.(Pin) is turned on, and TR3, 5 and 6 are turned on to make a backward motion.
- 4) TR8, 9,10,11,and 12 form the right side motor control circuit.
 - (4-1) Forward motion for motor of right side.

IC1..16P. (Pin) is turned on, and TR9, 11 and 12 are tuned on to make a forward motion.
 - (4-2) Backward motion for motor of right side.

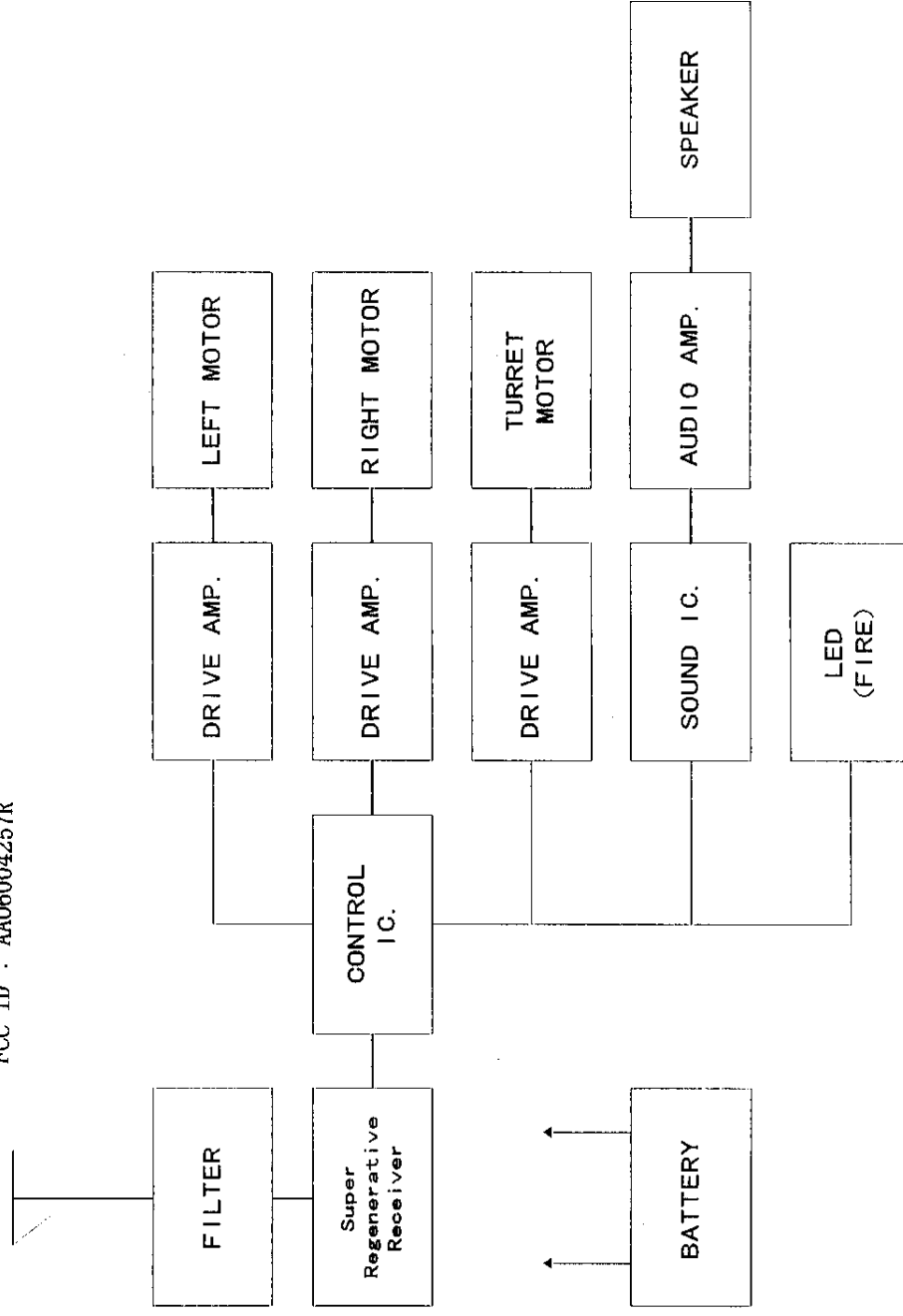
IC1..15P. (Pin) is turned on, and TR8, 10 and 13 are turned on to make a backward motion.
- 5) Motion control circuit for turret

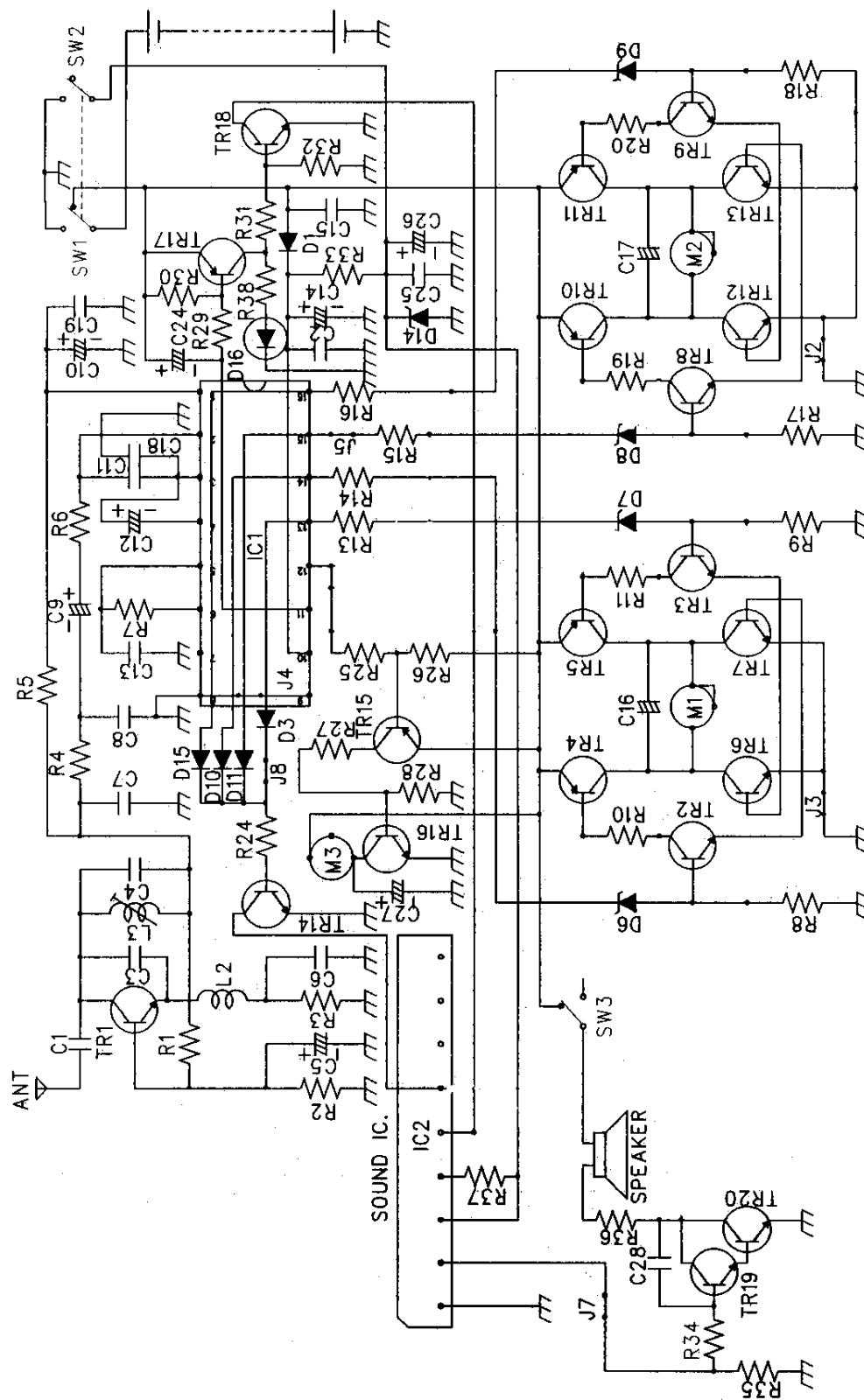
IC1.12P.(Pin) is turned on, and TR15 and 16 are turned on to make a turret motion.
- 6) Sound and fire LED control circuit
 - (6-1) TR19 form audio amplifier for speaker.
 - (6-2) IC2 is outputting sound of idling to TR19 when receiving power via SW1.
 - (6-3) However, IC2 output TR19 that sound of running when any of 13,14,15,16pin of IC1 turned on.
 - (6-4) However, it action is as follows when 11pin of IC1 turned on
 - a) TR17 is turning on, then D16 (fire LED) and TR18 turn on.
 - b) TR18 is turning on, then IC2 output sound of shoot to TR19.

RN6320 RECEIVER BLOCK DIAGRAM

ANT.

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NO.RN6320 CIRCUIT DIAGRAM 2000.5.1 NIKKO

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NO. RN6320 PCB PARTS LIST

FIG ID : AA06004257R

DESCRIPTION	CODE	PARTS NAME	NOTE
1 I.C.	IC1	NR9600	
2 TRANSISTOR	IC2	SOUND IC. (NEW TANK)	
3	TR1	2SC380-0 or equivalent	
4	TR2	2SC9450 or equivalent	
5	TR3	2SC9450 or equivalent	
6	TR4	2SB7720 or equivalent	
7	TR5	2SB7720 or equivalent	
8	TR6	2SD8820 or equivalent	
9	TR7	2SD8820 or equivalent	
0	TR8	2SC9450 or equivalent	
1	TR9	2SC9450 or equivalent	
2	TR10	2SB7720 or equivalent	
3	TR11	2SB7720 or equivalent	
4	TR12	2SD8820 or equivalent	
5	TR13	2SD8820 or equivalent	
6	TR14	2SC9450 or equivalent	
7	TR15	2SA7330 or equivalent	
8	TR16	2SC2001 or equivalent	
9	TR17	2SA7330 or equivalent	
0	TR18	2SC9450 or equivalent	
1	TR19	2SC9450 or equivalent	
2	TR20	2SC3205 or equivalent	
3 DIODE	D1	1N4148 or equivalent	
4	D3	1N4148 or equivalent	
5	D6	0 ohm	
6	D7	0 ohm	
7	D8	0 ohm	
8	D9	0 ohm	
9	D10	1N4148 or equivalent	
0	D11	1N4148 or equivalent	
1	D14	3.3V(ZENER)	
2	D15	1N4148 or equivalent	
3 RESISTOR	R1	3.3K	
4	R2	8.2K	
5	R3	470	
6	R4	5.6K	
7	R5	2.2K	
8	R6	4.7K	
9	R7	6.8K (±1%)	
0	R8	10K	
1	R9	10K	
2	R10	82 (1W)	
3	R11	82 (1W)	
4	R13	2.2K	
5	R14	2.2K	
6	R15	2.2K	
7	R16	2.2K	

NO.	DESCRIPTION	CODE	PARTS NAME	NOTE
48		R17	10K	
49		R18	10K	
50		R19	82 (1W)	
51		R20	82 (1W)	
52		R24	10K	
53		R25	2.2K	
54		R26	2.2K	
55		R27	560	
56		R28	10K	
57		R29	10K	
58		R30	10K	
59		R31	10K	
60		R32	100K	
61		R33	560	
62		R34	1.2K	
63		R35	1.2K	
64		R36	5 (3W)	
65		R37	1.5M	
66		R38	330	
67	CAPACITOR	C1	10p (C)	
68		C2	103	
69		C3	33p (C)	
70		C4	5p (C)	
71		C5	4.7 (E)	
72		C6	222 (M)	
73		C7	223 (M)	
74		C8	103 (M)	
75		C9	1 (E)	
76		C10	100 (E)	
77		C11	150p (C)	
78		C12	1 (E)	
79		C13	102J (M)	
80		C14	100 (E)	
81		C15	104 (C)	
82		C16	10 (NP)	
83		C17	10 (NP)	
84		C18	223 (C)	
85		C24	1 (E)	
86		C25	103 (C)	
87		C26	100 (E)	
88		C27	100 (E)	
89		C28	501 (M)	
90	JUMPER	J 2	0 ohm	
91		J 3	0 ohm	
92		J 4	0 ohm	
93		J 5	0 ohm	
94		J 7	0 ohm	
95		J 8	0 ohm	
96	INDUCTOR	L 2	SP 3.3uH	
97		L 3	S065	
98	EXTRA PARTS	EP3	PCB:NO. RN6320	
99	RESISTOR:No mark=1/6W, ±5% INDUCTOR:100mA, ±10% CAPACITOR (C) :Ceramic, 50WV, +80-20% (T) :Tantalum, 35WV, ±10% (M) :Mylar, 50WV [No mark=K, rank (±10%), J, rank (±5%)] (E) :Electrolytic, 16WV, ±20% (N) :Non pole Electrolytic, 16WV, ±20%			