

RN7110 CIRCUIT EXPLANATION

1)The 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 decode in the Ic.,and are send to each output terminal.

3)TR8,9,10,11,12 and 13 form the power motor drive control circuit.

TR5,6,14,15,16 and 17 form the steering control circuit.

4)Forward motion

IC.14P(Pin) is turned Hi,and TR8,10 and 13 are turned on to make a Forward drive.

5)Backward motion

IC.13P is turned Hi,and TR9,11 and 12 are turned on to make a backward drive.

6)Right turns

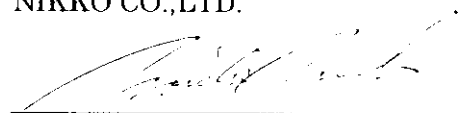
IC.15P is turned Hi,and TR5,15 and16 are turned on to make a Right turn.

7)Left turns

IC.16P is turned Hi,and TR6,14 and 17 are turned on to make a Left turn.

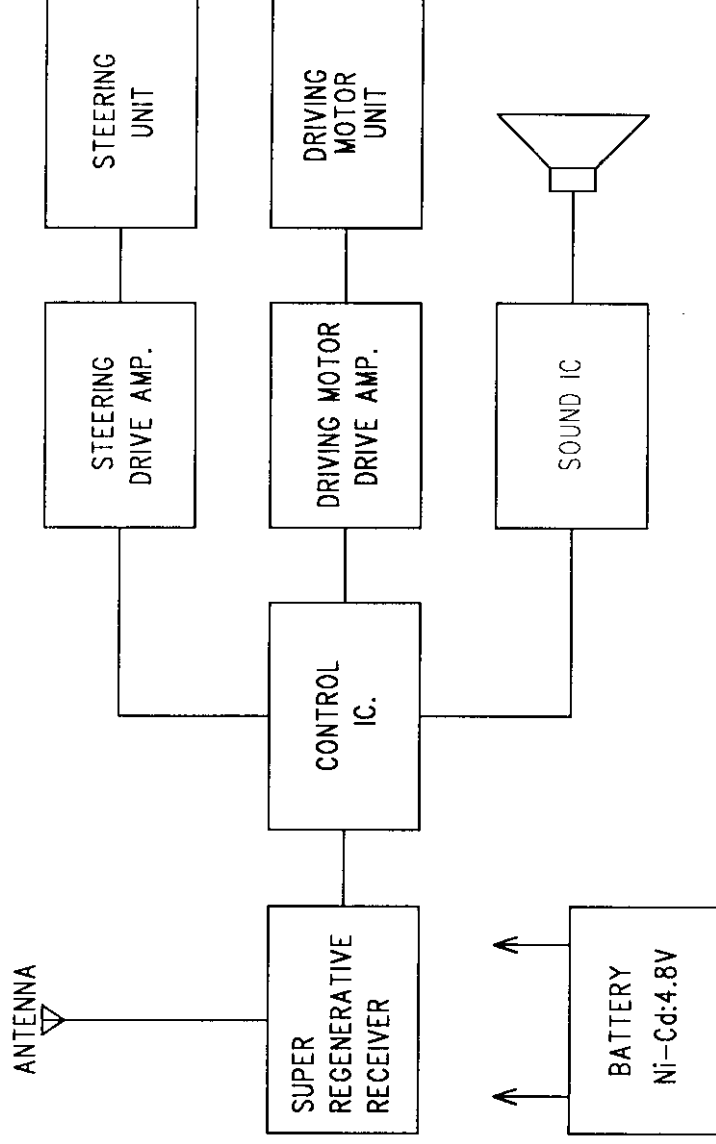
8) IC2 and TR20 generate real engine sound.

NIKKO CO.,LTD.



R&D Dept. CHIEF Y.MAEDA

PCB:NO.RN7110 RECEIVER BLOCK DIAGRAM



N O . R N 7 1 1 0 L I S T

49MHz

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N O .	DESCRIPTION	CODE	PARTS NAME	NOTE
1	I. C.	IC 1	NR9600	
2		IC 2	SOUND IC	
3	TRANSISTOR	TR 1	2SC380-0 or equivalent	
4		TR 2	2SA733Q or equivalent	
5		TR 3	2SA733Q or equivalent	
6		TR 4	-	
7		TR 5	2SC945Q or equivalent	
8		TR 6	2SC945Q or equivalent	
9		TR 8	2SC945Q or equivalent	
10		TR 9	2SC945Q or equivalent	
11		TR10	2SB772Q or equivalent	
12		TR11	2SB772Q or equivalent	
13		TR12	2SD882Q or equivalent	
14		TR13	2SD882Q or equivalent	
15		TR14	2SA952 or equivalent	
16		TR15	2SA952 or equivalent	
17		TR16	2SC2001 or equivalent	
18		TR17	2SC2001 or equivalent	
19		TR20	2SC4408 or equivalent	
20	DIODE	D 1	10 ohm	
21		D 4	0 ohm	
22		D 5	0 ohm	
23		D10	1N4148 or equivalent	
24		D11	1N4148 or equivalent	
25		D12	1N4148 or equivalent	
26		D13	1N4148 or equivalent	
27		D14	1N4148 or equivalent	
28		D15	1N4148 or equivalent	
29		D16	1N4148 or equivalent	
30		D17	1N4002 or equivalent	
31		D18	1N4002 or equivalent	
32		D19	3.6V(ZENNER)	
33		D20	1N4148 or equivalent	
34		D22	1N4148 or equivalent	
35	RESISTOR	R 1	4.7K	
36		R 2	8.2K	
37		R 3	560	
38		R 4	5.6K	
39		R 5	2.2K	
40		R 6	10K	
41		R 7	6.8K(+/-1%)	
42		R 8	10K	
43		R 9	10K	
44		R10	10K	
45		R11	-	
46		R12	10K	
47		R13	8.2K	
48		R14	8.2K	
49		R15	8.2K	
50		R16	8.2K	
51		R21	220	
52		R22	220	

RESISTOR...No mark:1/6W, +5% INDUCTOR...100mA, +10%

CAPACITOR: (C)=CERAMIC...50WV, +80-20%

: (M)=MYLAR...50WV, No mark(K-rank): +10%, J-rank: +5%

: (E)=ELECTROLYTIC...16WV, +20%

: (T)=TANTALUM...35WV, +10%

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N O .	DESCRIPTION	CODE	PARTS NAME	NOTE
53		R23	150	
54		R24	10k	
55		R25	10K	
56		R26	10K	
57		R27	56(1/2W)	
58		R28	56(1/2W)	
59		R29	150K	
60		R30	0 ohm	
61		R31	0 ohm	
62		R34	1(E)	
63		R37	1K	
64		R38	-	
65		R39	-	
66		R40	10k	
67		R41	820k	
68	CAPACITOR	C 1	10p(C)	
69		C 2	5p(C)	
70		C 3	33p(C)	
71		C 5	4.7(E)	
72		C 6	222(M)	
73		C 7	223(M)	
74		C 8	103(M)	
75		C 9	1(E)	
76		C10	100(E)	
77		C11	100(E)	
78		C12	104(C)	
79		C13	150p(C)	
80		C14	1(E)	
81		C15	102J(M)	
82		C16	1(E)	
83		C17	1(E)	
84		C18	-	
85		C19	47(E)	
86		C20	104(C)	
87		C21	473(C)	
88		C22	104(C)	
89		C23	-	
90		C24	473(C)	
91	INDUCTOR	L 1	-	
92		L 2	SP 3.3uH	
93		L 3	S6.5T	
94	JUMPER	J 1	0 ohm	
95		J 2	WIRE:60mm	
96		J 3	WIRE:60mm	
97		J 5	0 ohm	
98		J 8	0 ohm	
99		J 9	0 ohm	
100		J10	0 ohm	
101		J12	WIRE:80mm	
102		J13	WIRE:60mm	
103	EXTRA PARTS	EP 1	PCB:NO. RN7110	
104		EP 2	-	

RESISTOR...No mark:1/6W, +-5% INDUCTOR...100mA, +-10%

CAPACITOR: (C)=CERAMIC...50WV, +80-20%

: (M)=MYLAR...50WV, No mark(K-rank): +-10%, J-rank: +-5%

: (E)=ELECTROLYTIC...16WV, +-20%

: (T)=TANTALUM...35WV, +-10%

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N O .	DESCRIPTION	CODE	PARTS NAME	NOTE
105		EP 3	-	

RESISTOR...No mark:1/6W,+-5% INDUCTOR...100mA,+-10%

CAPACITOR:(C)=CERAMIC...50WV, +80-20%

: (M)=MYLAR...50WV, No mark (K-rank):+-10%, J-rank:+-5%

: (E)=ELECTROLYTIC...16WV, +-20%

: (T)=TANTALUM...35WV, +-10%