

RN6230 CIRCUIT EXPLANATION

(FCC ID:CVTRN6230)

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)TR2,3,4,5,6 and 7 form the left motor drive control circuit.

TR10,11,12,13,14 and 15 form the right motor drive control circuit.

TR18 and 19 form the LED drive circuit.

4)Forward motion

IC.14P and 16P(Pin) are turned on,and TR2,5,7,10,13 and 15 are turned on to make a Forward drive.

5)Backward motion

IC.13P and 15P are turned on,and TR3,4,6,11,12 and 14 are turned on to make a backward drive.

6)Right turns

IC.14P is turned on,and TR2,5 and 7 are turned on to make a Right turn.

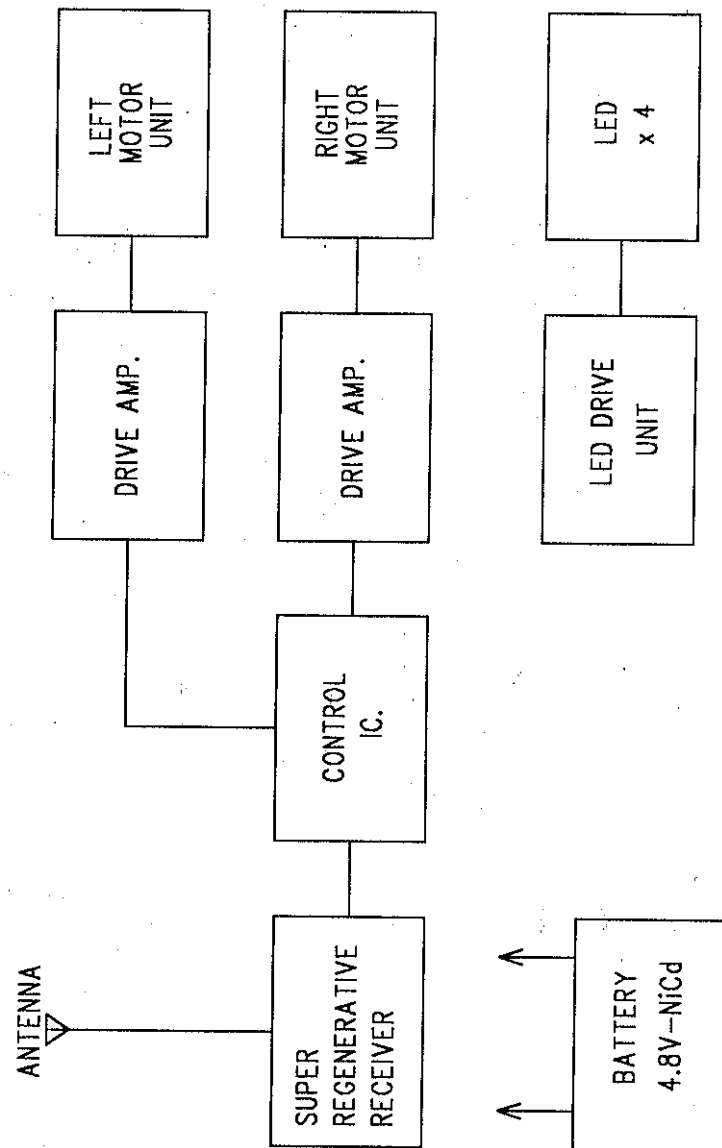
7)Left turns

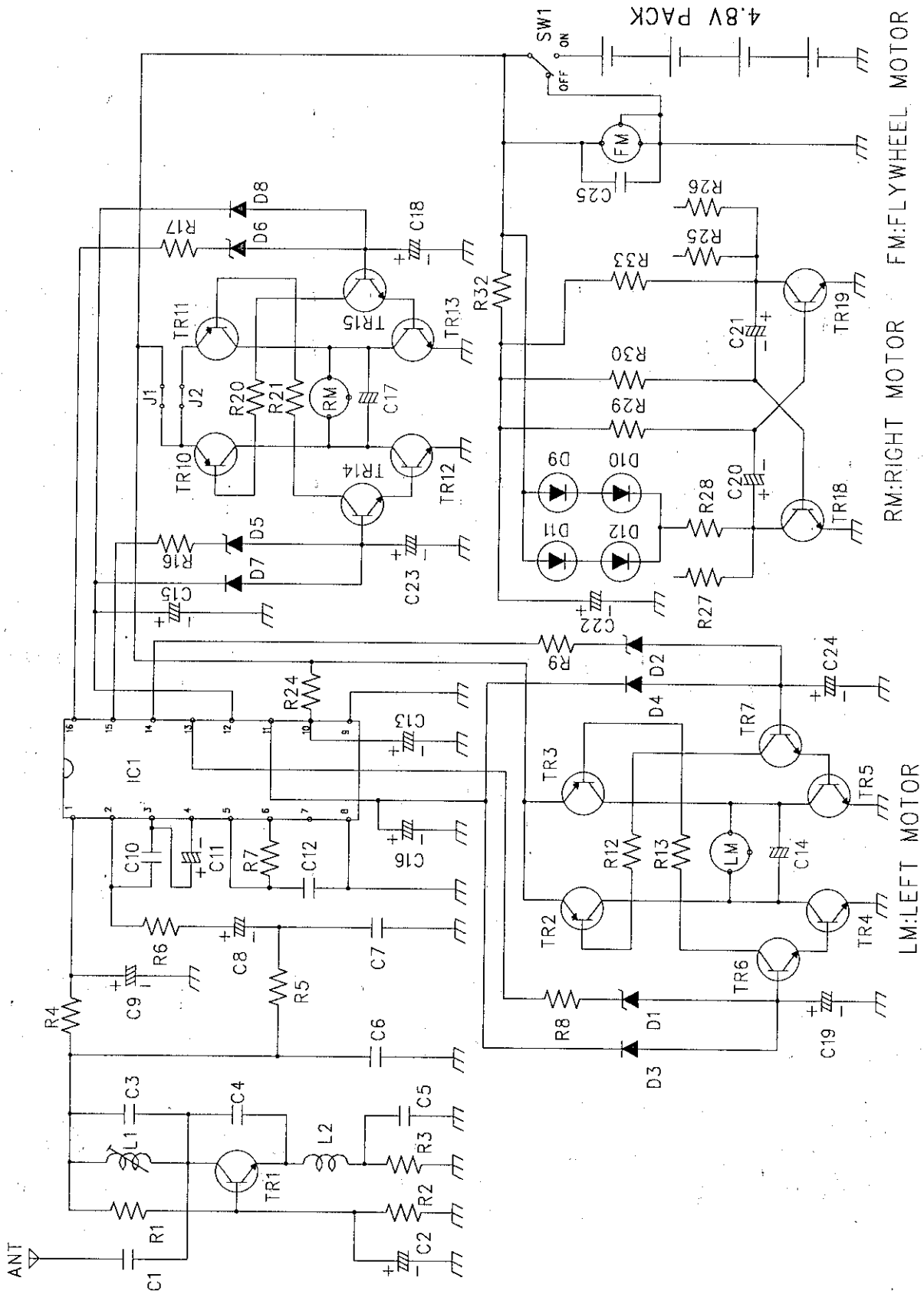
IC.16P is turned on,and TR10,13 and 15 are turned on to make a Left turn.

8)Spin turns

IC.13P and 16P are turned on,and TR3,4,6,19,13 and 15 are turned on to make a Spin turn.

PCB:NO.RN6230 RECEIVER BLOCK DIAGRAM





RM:RIGHT MOTOR FM:FLYWHEEL MOTOR

NO.RN6230. CIRCUIT DIAGRAM

1998.8.24 MT.M.

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N O .	DESCRIPTION	CODE	PARTS NAME	NOTE
1	I. C.	IC 1	NR9600	
2	TRANSISTOR	TR 1	2SC380-0 or equivalent	
3		TR 2	2SB810 or equivalent	
4		TR 3	2SB810 or equivalent	
5		TR 4	2SD1020 or equivalent	
6		TR 5	2SD1020 or equivalent	
7		TR 6	2SC2785 or equivalent	
8		TR 7	2SC2785 or equivalent	
9		TR10	2SB810 or equivalent	
10		TR11	2SB810 or equivalent	
11		TR12	2SD1020 or equivalent	
12		TR13	2SD1020 or equivalent	
13		TR14	2SC2785 or equivalent	
14		TR15	2SC2785 or equivalent	
15		TR18	2SC2785 or equivalent	
16		TR19	2SC2785 or equivalent	
17	DIODE	D 1	0 ohm	
18		D 2	0 ohm	
19		D 3	1SS133 or equivalent	
20		D 4	1SS133 or equivalent	
21		D 5	0 ohm	
22		D 6	0 ohm	
23		D 7	1SS133 or equivalent	
24		D 8	1SS133 or equivalent	
25	RESISTOR	R 1	4.7K	Delete Cange Add
26		R 2	8.2K	
27		R 3	560	
28		R 4	2.2K	
29		R 5	5.6K	
30		R 6	10K	
31		R 7	6.8K(+/-1%)	
32		R 8	1.8K	
33		R 9	1.8K	
34		R12	68	
35		R13	68	
36		R16	1.8K	
37		R17	1.8K	
38		R20	68	
39		R21	68	
40		R24	10	
41		R25	-	
42		R28	33	
43		R29	39K	
44		R30	39K	
45		R32	10	
46		R33	10K	
47	CAPACITOR	C 1	10p(C)	
48		C 2	4.7(E) small	
49		C 3	5p(C)	

RESISTOR: [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%], (NP)=Non Pole ELECTROLYTIC
 : (T)=TANTALUM[35WV, +/-10%]

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N O .	DESCRIPTION	CODE	PARTS NAME	NOTE
50		C 4	33p(C)	Bend 45deg. Lie down Lie down
51		C 5	222(M)	
52		C 6	223(M) small	
53		C 7	103(M)	
54		C 8	1(E) small	
55		C 9	47(E) small	
56		C10	150p(C)	
57		C11	1(E) small	
58		C12	102J(M)	
59		C13	47(E) small	
60		C14	10(N)	
61		C17	10(N)	
62		C18	0.47(E) small	
63		C19	0.47(E) small	
64		C20	10(E) small	
65		C21	10(E) small	
66		C22	47(E) small	
67	INDUCTOR	L 1	S6.5T	Made in China
68		L 2	SP 3.3uH	
69	JUMPER	J 1	WIRE:50mm	
70		J 2	WIRE:20mm	
71	EXTRA PARTS	EP 1	PCB:NO. RN6230	

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

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

: (E)=ELECTROLYTIC[16WV, +-20%], (NP)=Non Pole ELECTROLYTIC

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