

TN6710 CIRCUIT EXPLANATION

FCC ID : AA06004257T

1)

TR1 forms the power circuit.

2)

The power circuit starts to operate when any switch (SW1,SW2,SW3 and SW4) is turned ON. However, in case SW3 is switching on, the power circuit continues to operate even while beginning to switching OFF, until C17 end to discharge (usually about 0.5 sec.)

3)

TR2 forms the Radio Frequency oscillator.

4)

The Amplitude Modulation of the Radio Frequency is performed in TR3 by placing the waves on Audio Frequency.

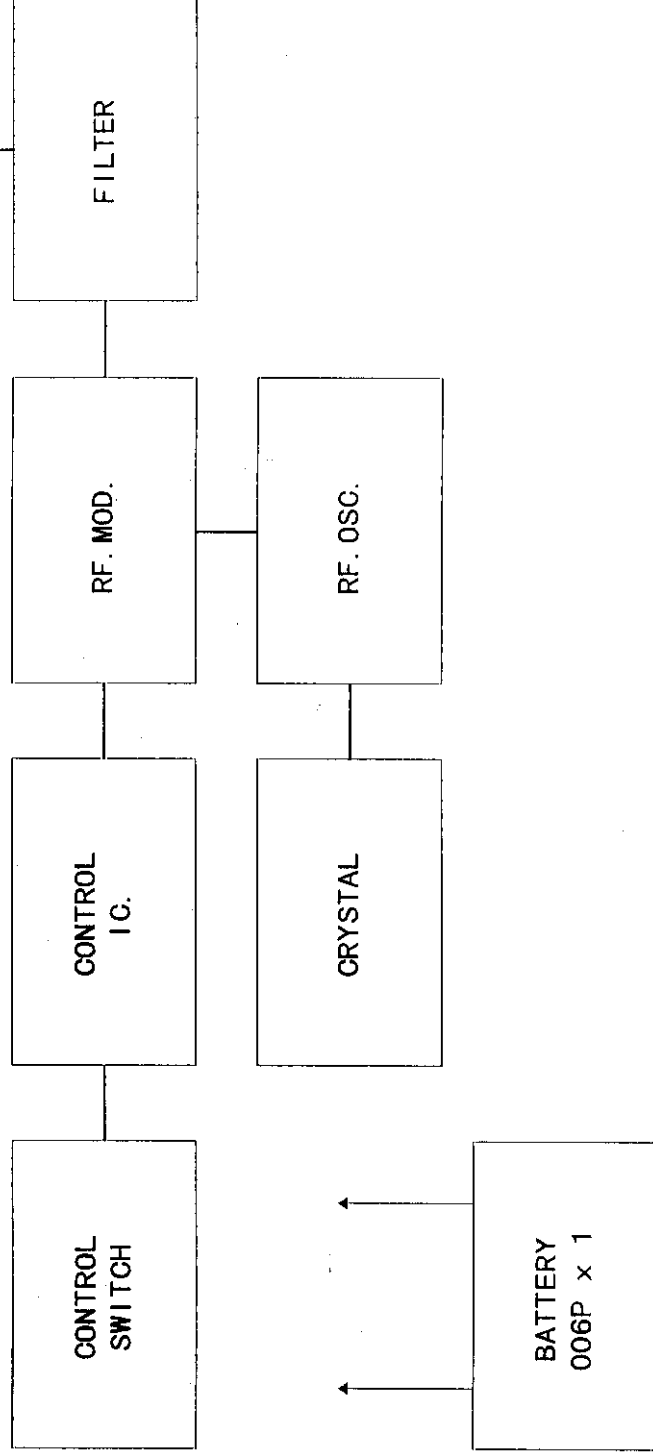
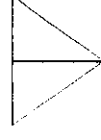
5)

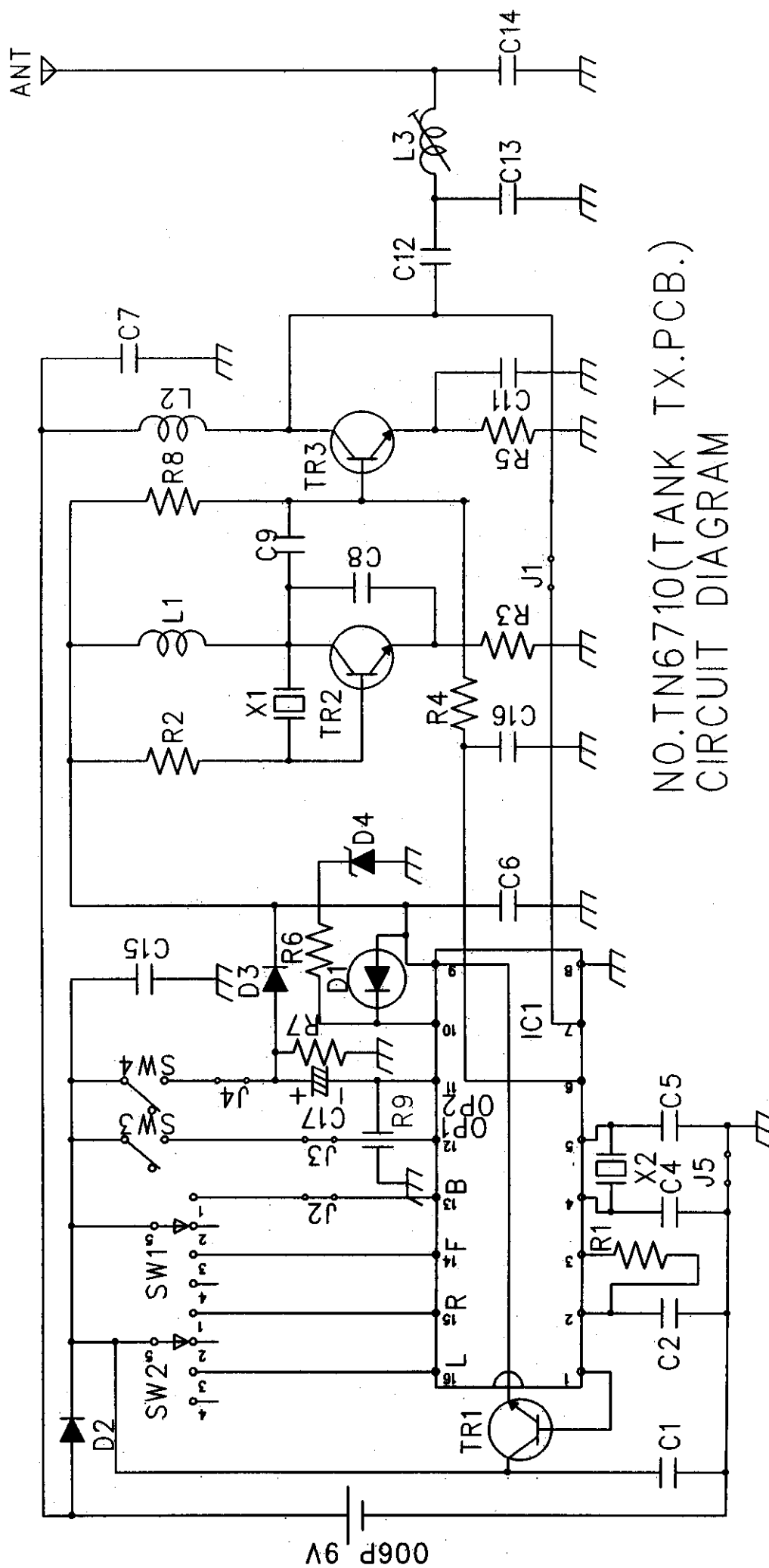
AM. waves are output into the collector of TR3, passed through the filter, and is transmitted from the Antenna.

TN6710 TRANSMITTER BLOCK DIAGRAM

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NO. TN6710 (TANK TX. PCB.)
CIRCUIT DIAGRAM

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NO. TN6710 PCB. PARTS LIST

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NO.	DESCRIPTION	CODE	PARTS NAME	NOTE
1	I. C.	IC 1	NT9601	
2	TRANSISTOR	TR 1	2SC945Q or equivalent	
3		TR 2	2SC945Q or equivalent	
4		TR 3	2SC945Q or equivalent	
5	DIODE	D 1	LED:D5mm	
6		D 2	1N4148 or equivalent	
7		D 3	1N4148 or equivalent	
8		D 4	ZENER 3.6V	
9	RESISTOR	R 1	6.8K(±1%)	
10		R 2	120K	
11		R 3	100	
12		R 4	100	
13		R 5	100	
14		R 6	220	
15		R 7	10K	
16		R 8	22K	
17		R 9	103 (C)	
18	CAPACITOR	C 1	103 (C)	
19		C 2	102J (M)	
20		C 6	103 (C)	
21		C 7	103 (C)	
22		C 8	22p (C)	
23		C 9	5p (C)	
24		C10	-	
25		C11	103 (C)	
26		C12	22p (C)	
27		C13	47p (C)	
28		C14	5p (C)	
29		C16	103 (C)	
30		C17	4.7 (E)	
31	INDUCTOR	L 1	SP 1uH	
32		L 2	SP 1uH	
33		L 3	8.5T	
34	JUMPER	J 2	0 ohm	
35		J 3	0 ohm	
36		J 4	0 ohm	
37		J 5	0 ohm	
38	EXTRA PARTS	EP 1	X1:49.860MHz	CITIZEN
39		EP 2	ANTENNA FITTING:AH-60	
40		EP 3	TACT SWITCH : IT-1102VDL x 2	SW3, SW4
41		EP 4	SUB PCB:NO. S3 x 2	
42		EP 5	MAIN PCB:NO. TN6710	

RESISTOR:No mark=1/6W, ±5% INDUCTOR:100mA, ±10%

CAPACITOR (C):Ceramic, 50WV, +80-20% (T):Tantalum, 16WV, ±10%

(M):Mylar, 50WV[No mark=K. rank(±10%), J. rank(±5%)]

(E):Electrolytic, 16WV, ±20% (N):Non pole electrolytic, 16WV, ±20%