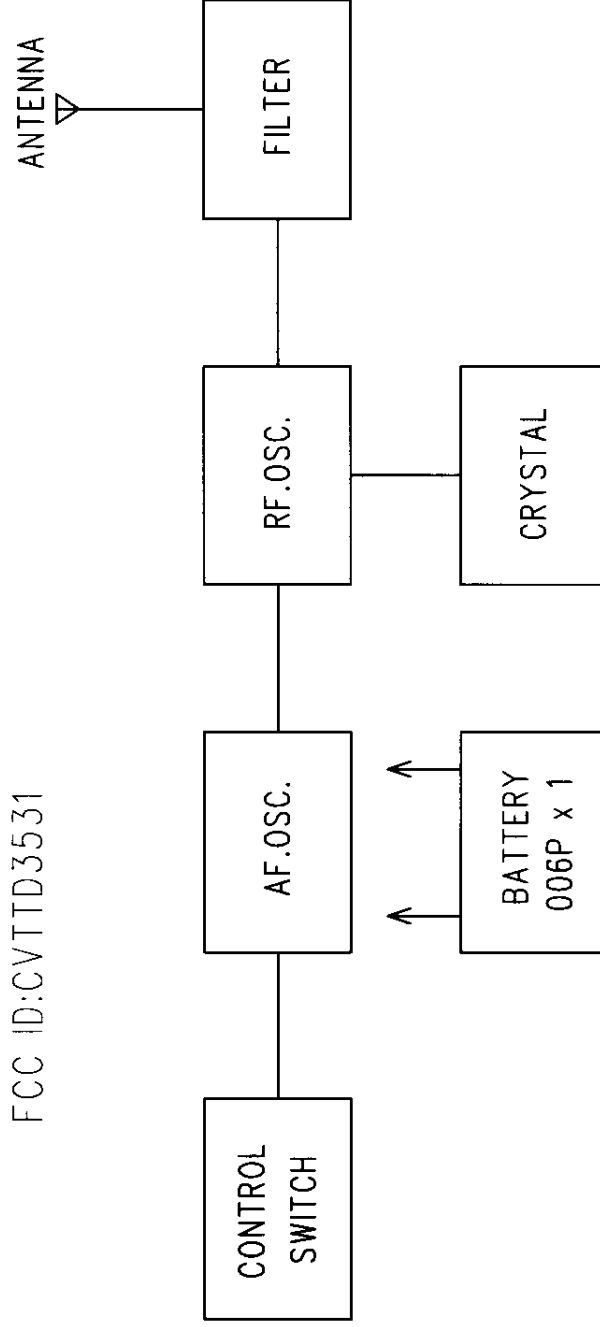


# PCB:NO.TD3531 TRANSMITTER BLOCK DIAGRAM

FCC ID:CVTTD3531

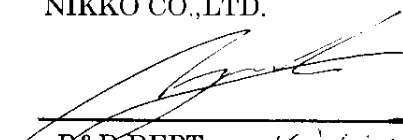


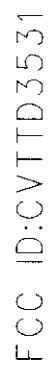
## TD3531 CIRCUIT EXPLANATION

(FCC ID:CVTTD3531)

- 1)TR1 and TR2 forms the Action signal oscillator.
- 2)TR3 form Radio Frequency oscillator.
- 3)The Amplitude Modulation of the Radio Frequency is performed in TR4 by placing the waves on Audio Frequency.
- 4)AM. waves are output into the collector of TR4,passed through the filter, and is transmitted from the Antenna.

NIKKO CO.,LTD.

  
R&D DEPT. Yoichi Maeda



1999/04/29 YM.

# NO. TD3531 PCB PARTS LIST

FCC ID :CVTTD3531

1999. 7. 21

| NO. | DESCRIPTION | CODE | PARTS NAME                | NOTE    |
|-----|-------------|------|---------------------------|---------|
| 1   | TRANSISTOR  | TR 1 | 2SC945Q or equivalent     |         |
| 2   |             | TR 2 | 2SC945Q or equivalent     |         |
| 3   |             | TR 3 | 2SC945Q or equivalent     |         |
| 4   |             | TR 4 | 2SC945Q or equivalent     |         |
| 5   | DIODE       | D 1  | 1N4148 or equivalent      |         |
| 6   | RESISTOR    | R 1  | 47K                       |         |
| 7   |             | R 2  | 47K                       |         |
| 8   |             | R 3  | 39K                       |         |
| 9   |             | R 4  | 22K                       |         |
| 10  |             | R 5  | 120K                      |         |
| 11  |             | R 8  | 68K                       |         |
| 12  |             | R 9  | 100                       |         |
| 13  |             | R10  | 1K                        |         |
| 14  |             | R11  | 220                       |         |
| 15  | CAPACITOR   | C 1  | 333 (M)                   |         |
| 16  |             | C 2  | 333 (M)                   |         |
| 17  |             | C 5  | 103 (C)                   |         |
| 18  |             | C 8  | 68p (C)                   |         |
| 19  |             | C10  | 47p (C)                   |         |
| 20  |             | C11  | 100p (C)                  |         |
| 21  |             | C12  | 33p (C)                   |         |
| 22  |             | C13  | 47p (C)                   |         |
| 23  |             | C14  | 47p (C)                   |         |
| 24  |             | C15  | 103 (C)                   |         |
| 25  | INDUCTOR    | L 1  | S11.5T                    |         |
| 26  |             | L 2  | SP 2.2uH                  |         |
| 27  |             | L 5  | SP 2.2uH                  |         |
| 28  | EXTRA PARTS | EP 1 | X2:27.145MHz              | CITIZEN |
| 29  |             | EP 2 | SW1, 2: PUSH PLATE SWITCH |         |
| 30  |             | EP 3 | RIVET: (#5x1tx#2x4L)x3    |         |
| 31  |             | EP 4 | PCB:NO. TD3530            |         |

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

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

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

(E): Electrolytic, 16WV,  $\pm 20\%$  (N): Non pole electrolytic, 16WV,  $\pm 20\%$