

## Operation Description (RF Section)

### 1. Device concept

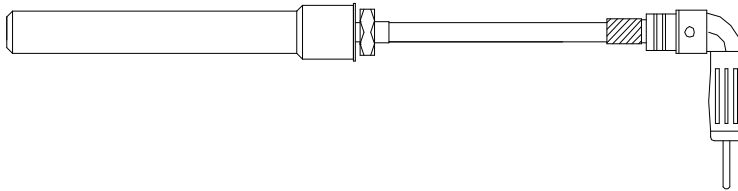
A radio frequency enables it for this equipment to operate the function of receiving receptacle a vehicle door inquiry opening and closing and an alarm.

### 2. Each section of Device

- 2 - 1 ANTENNA
- 2 - 2 FM OSCILLATOR
- 2 - 3 POWER

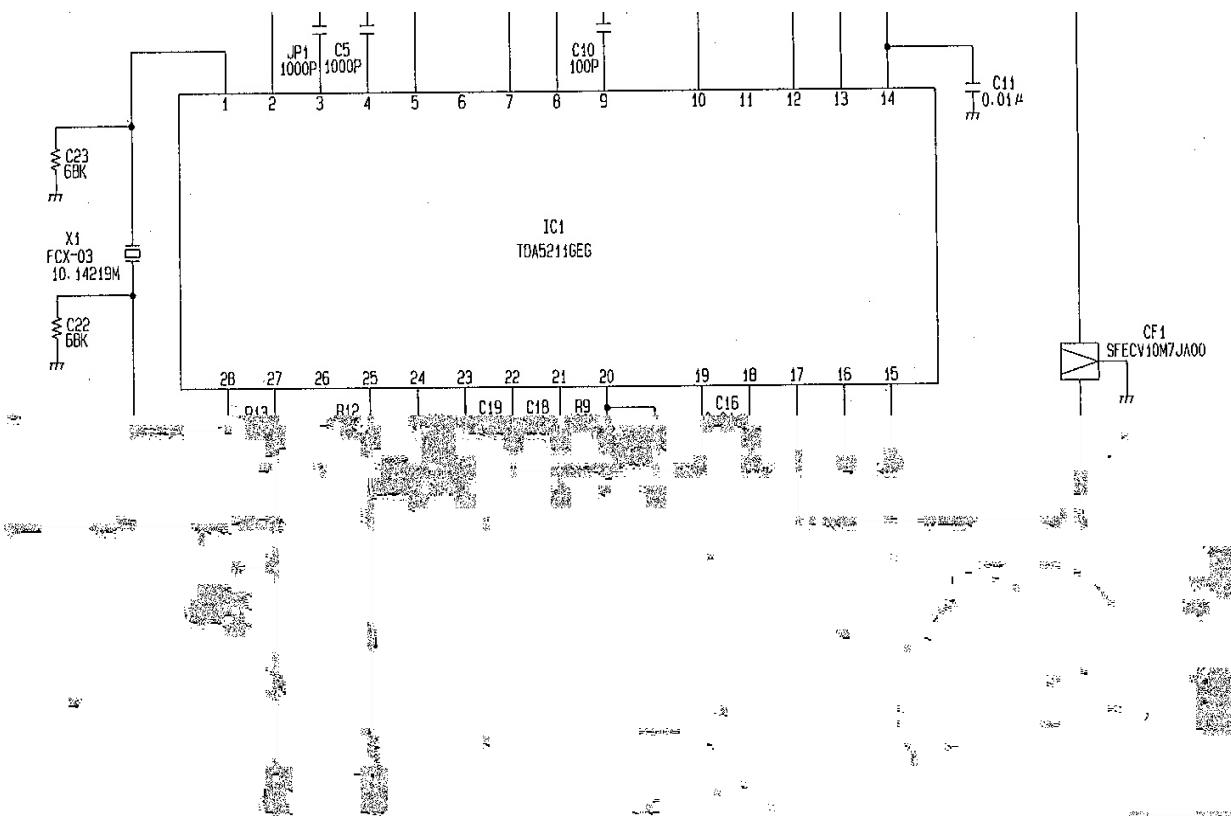
### 3. Explanation of each section

#### 3 - 1 ANTENNA Section



Antenna is composed with Wire Coil Antenna-Jack , and radiates radio frequency through the air.

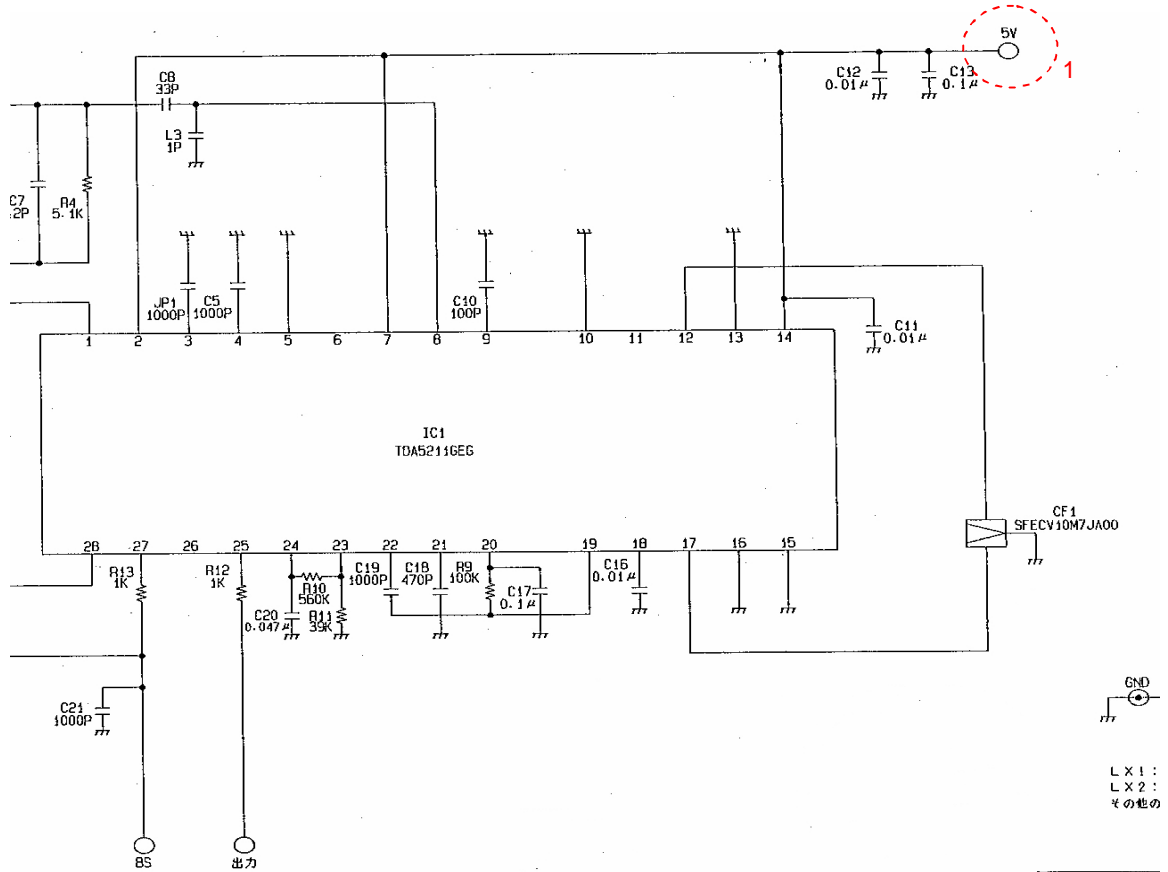
#### 3 - 2 FM Oscillation section



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FM oscillation section oscillates with 10.14219 MHz X-Tal Frequency, by the FSK modulation method, FM bands of frequency which is required for FM frequency transmission.

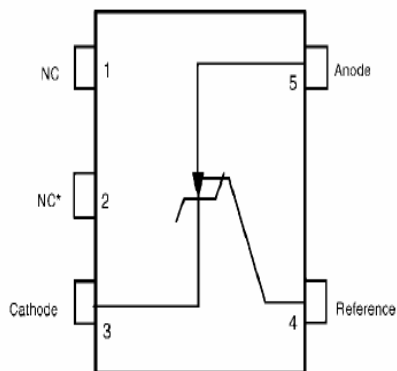
### 3 - 3 Power section



1 portion is a portion which always supplies 5V through DC/DC conversion from Car Battery.

DC/DC Conversion ( TS431 )

**SOT23-5**  
(Top view)



\* Do not connect this pin or connect it to ground

## OPERATING CONDITIONS

Symbol	Parameter	Value	Unit
$V_{KA}$	Cathode to Anode Voltage	1.24 to 6	V
$I_k$	Cathode Current	0.06 to 30	mA