

## Circuit Description

### \* Transmitter

1. Oscillator & Mixer (Q102): A kind of radio frequency controlled Oscillator circuit via transmitting antenna is made of X-tal, transistor(Q102),resistor, capacitor, coil(T101).
2. Modulator(Q105, Q101): A circuit to shift pulse position to Mix occurred by Encoder(IC-101).
3. Pulse train encoder & switch(IC-101): A circuit to generate designated pulse(1.5m/sec) to operate servo inside the moving vehicle. it is consists of IC(IC-101), resistor, capacitor, reverse switch and volume.
4. Reverse switch (SW101, 102, 103, 104): A switch which can change moving vehicle's direction by servo's movement.
5. Volume(VR7,8,9,10,11,12,13,14): A circuit which can change resistor's value of pin No. 1,2,3,4,5 of Encoder IC(IC-101). This is installed into transmitter's stick assembly and adjust moving direction of pulse to control servo's rotation direction or angles.
6. RF Driver Amp.(Q103): A circuit to amplify the mear frequency power mixed with pulse from generator to meet needed amplifying power increase.
7. RF Out(Q104): A circuit to amplify the radio frequency generated from RF Driver Amp.
8. Filter(T103,104): A circuit to filtering unnecessary spurious frequency which is mixed with needed frequency from RF power amplifier.