

## BRAIN TRANSMITTER DESCRIPTION

### 1. DATA OUT

#### 1) IN CASE OF SENDING DATA TO REMOTOR

##### (1) EVENT HAPPEN

Tachometer, generator input

Brake shut down input

Rear light input

Wait to start input

Door trigger input

Trunk pin switch input

Hood pin switch input

Soft trigger

Hard trigger

(refer to brain wiring diagram)

When one of these events happen, event data is sent to the CPU IC1 (GMS 90C51). Then, IC1(GMS 90C51) 23rd pin will send out proper data. At the same time, power is transmitted to transmitter part.

(Refer to control part circuit diagram at RTS BRAIN)

(2) Data from CPU is modulated at D2(1SV154)-refer to MT Brain RF part).

Modulated data is transmitted to L1, crystal X101.

(3) Basic frequency 48.1988Mhz crystal becomes triple to 144.5966 at oscillation circuit (consist of Q3, L3, C7, C8, L2). This frequency 144.5966Mhz become triple again to carrier frequency 433.79Mhz at circuit (Q4, L5, C14).

(4) 433.79Mhz frequency passes by buffer Q5,C7,C23 and amp Q6,L8,C25 then transmitted to antenna for release to outside.

#### 2) IN CASE OF RECEIVING DATA FROM REMOTOR

A certain data (ex. door unlock) from remoter will be fulfilled and door unlock data will pass through above (2) ~ (4) then send to remoter