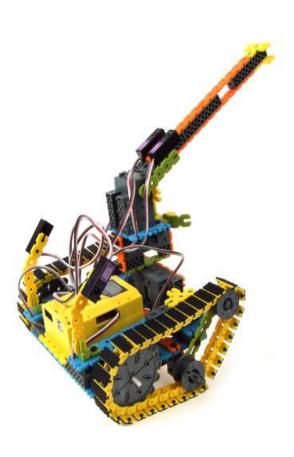
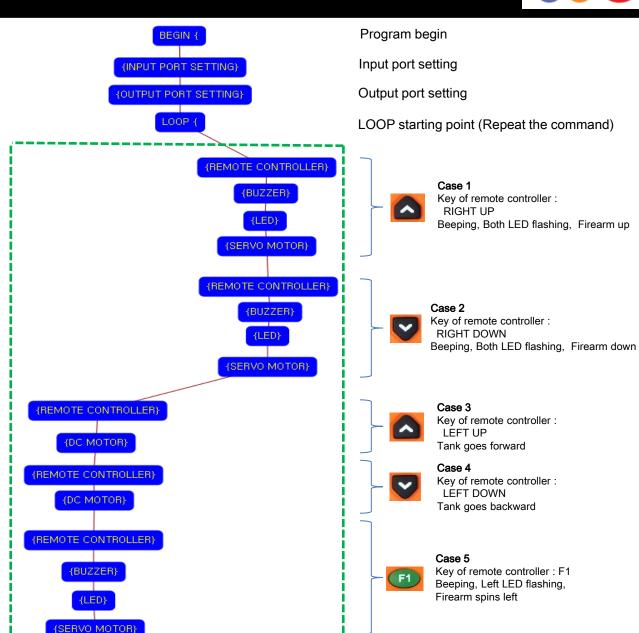
# EQ-ROBO Programming: Servo tank

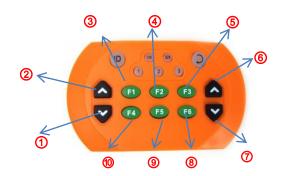




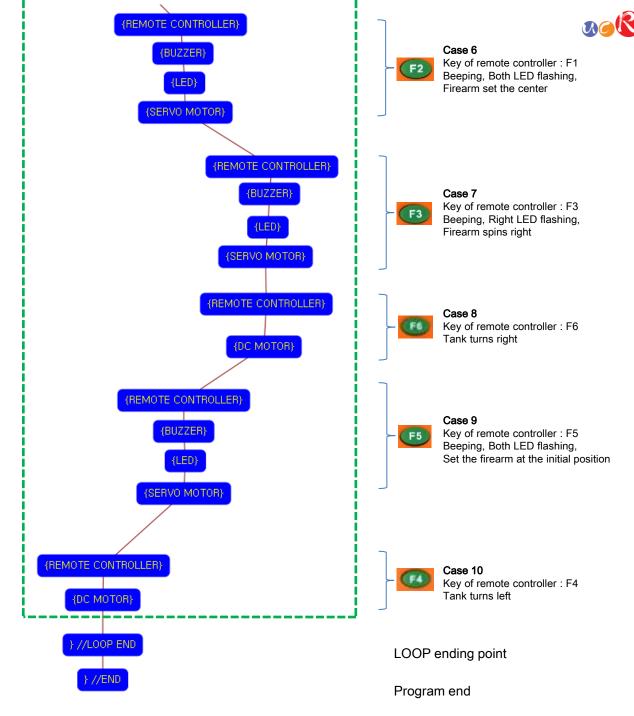
Input: Remote signal receiver
Output: DC motor, Servo motor
LED, Buzzer

Work: Driving, Moving the firearm

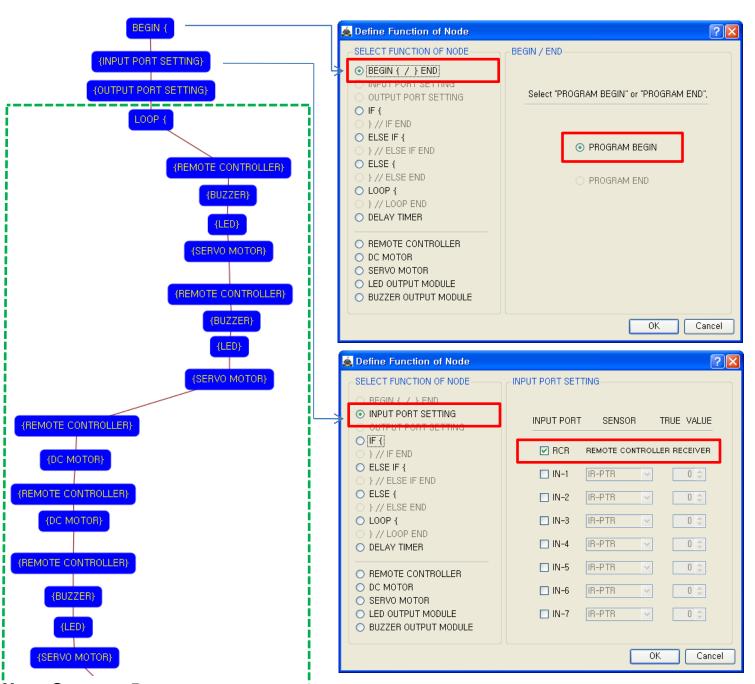




- Go backward
- Go forward
- Beeping, Left LED flashing, Spin left firearm
- Beeping, Both LED flashing, Set firearm center
- Beeping, Right LED flashing, Spin right firearm
- Beeping, Both LED flashing, Up firearm
- Deeping, Both LED flashing, Down firearm
- 8 Tank turn right
- 9 Set the initial position
- 10 Tank turn left







This means that program begins from hear.

You have to place this node at the first of program.

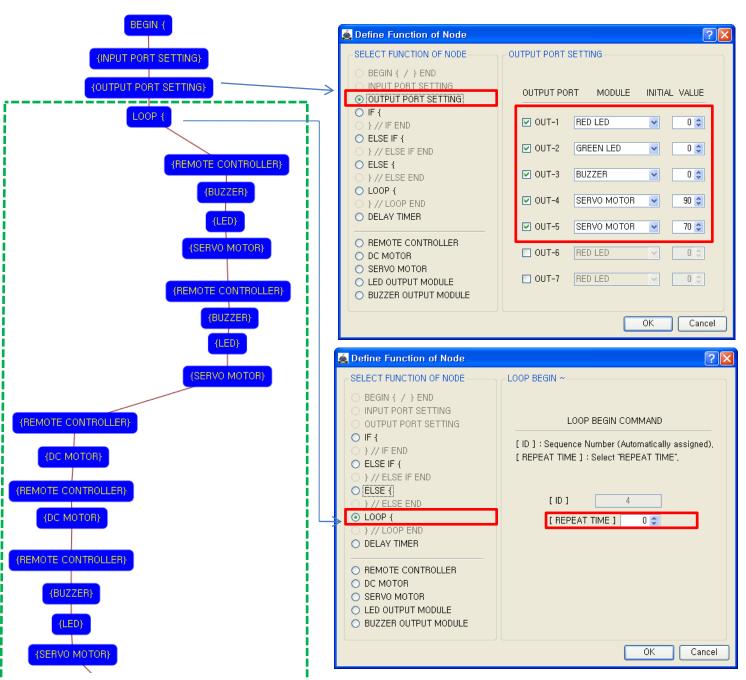
"PROGRAM END" is not active because you did not define "PROGRAM BEGIN" yet.

This model use 1 remote control receiver module as input device.

You have to connect the remote control receiver to the RCR input port of main board. And check the RCR in software to use.

If the real connection of sensors are different to the setting on software, it will make robot to wrong operation.





You have to connect LEDs are to the OUT-1 and OUT2, buzzer is to the OUT-3, the Servo motors to the OUT-4 and OUT-5 output port of main board. The initial values of Servo motors are to be 90 and 70.

If the real connection of output modules are different to the setting on software, it will make robot to wrong operation.

LOOP command is used to repeat the commands.

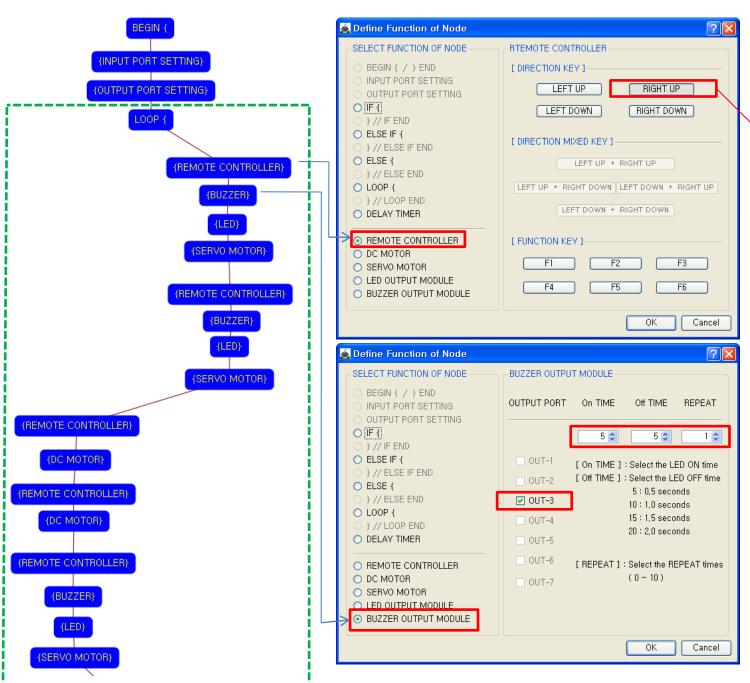
"REPEAT TIME" is the repeat number you want.

If you want permanent repetition, you have to set "0".

ID is automatically assigned. You have to set the same ID at "LOOP END".

Automatically assigned ID is different according to the sequence of making nodes.





Set the "RIGHT UP" key of remote controller.

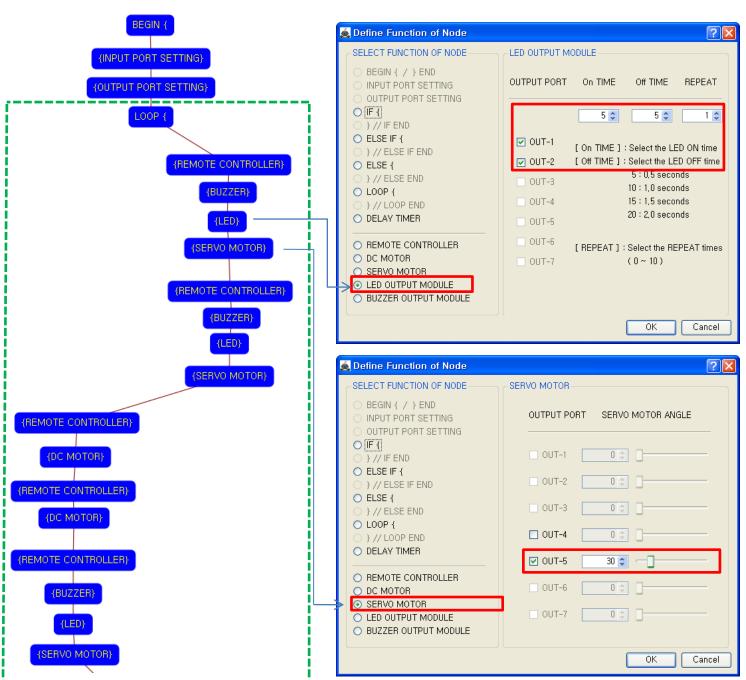


If the "RIGHT UP" key is pressed, the buzzer is beeping like as followings.

The Buzzer module(OUT-3) turns on 0.5 seconds and turns off 0.5 seconds for 1 times.

On TIME: On time of LED Off TIME: Off time of LED REPEAT: Repetition number





If the "RIGHT UP" key is pressed, at first the Buzzer is beeping and then the both LEDs are flashing like as followings.

LED modules (OUT-1 & OUT-2) are turning on 0.5 seconds and turning off 0.5 seconds for 1 times.

On TIME: On time of LED Off TIME: Off time of LED REPEAT: Repetition number

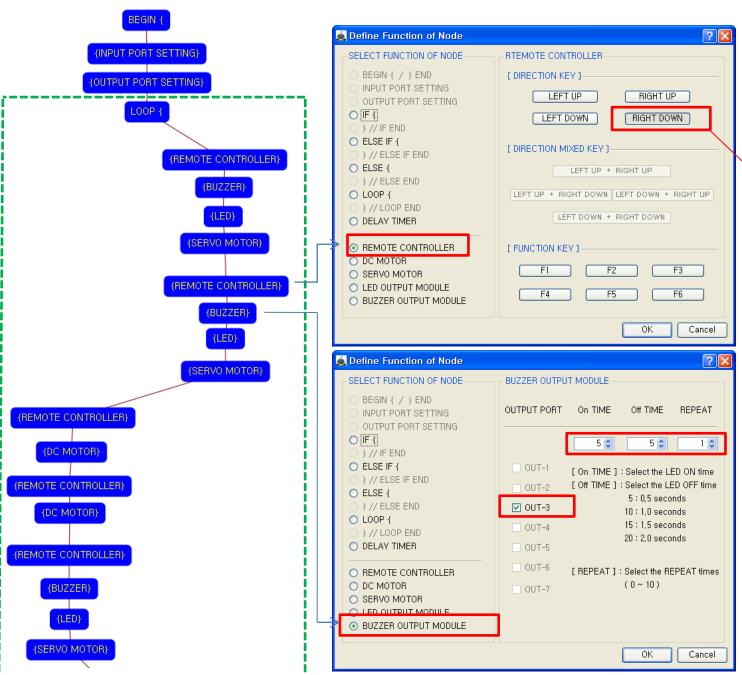
If the "RIGHT UP" key is pressed, the servo motor(OUT-5) sets to the 30 degree.

This make firearm is up.

(If the servo motor assembly is different with the assembly manual, the servo motor operation is different also)

USER CREATIVE ROBOT





Set the "RIGHT DOWN" key of remote controller

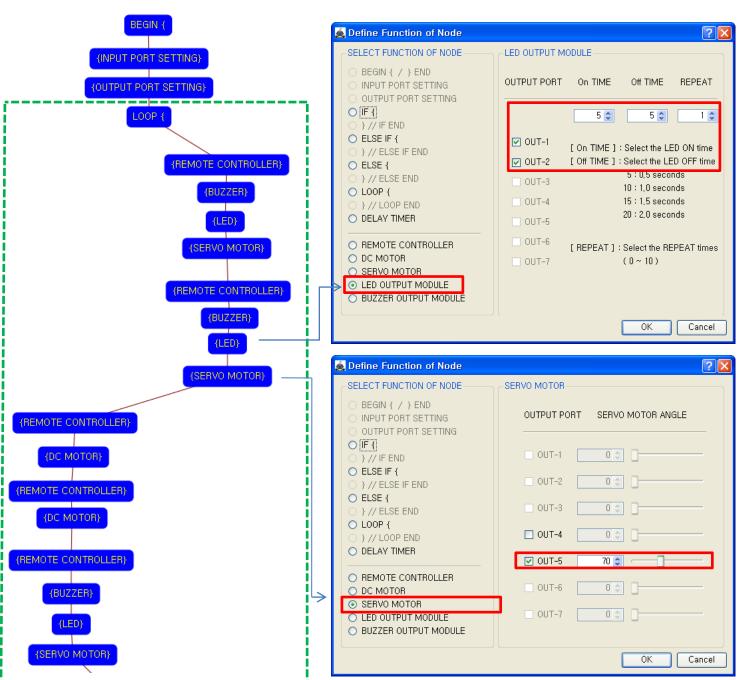


If the "RIGHT DOWN" key is pressed, the buzzer is beeping like as followings.

The Buzzer module(OUT-3) turns on 0.5 seconds and turns off 0.5 seconds for 1 times.

On TIME: On time of LED
Off TIME: Off time of LED
REPEAT: Repetition number





If the "RIGHT DOWN" key is pressed, at first the Buzzer is beeping and then the both LEDs are flashing like as followings.

LED modules (OUT-1 & OUT-2) are turning on 0.5 seconds and turning off 0.5 seconds for 1 times.

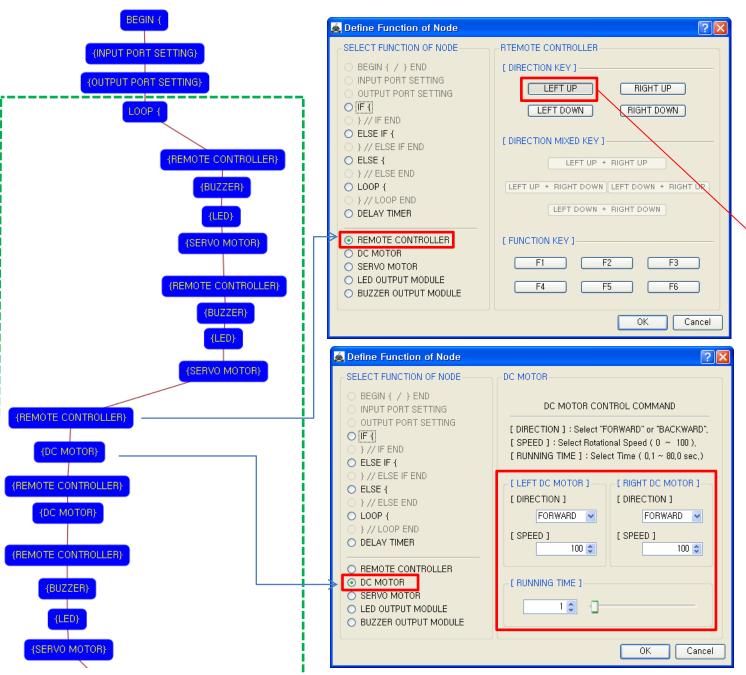
On TIME : On time of LED Off TIME: Off time of LED REPEAT: Repetition number

If the "RIGHT DOWN" key is pressed, the servo motor(OUT-5) sets to the 70 degree.

This make firearm is down.

(If the servo motor assembly is different with the assembly manual, the servo motor operation is different also)





Set the "LEFT UP" key of remote controller.



Left DC Motor

- Direction : Forward

- Speed : 100

- Running Time : 1 Right DC Motor

- Direction : Forward

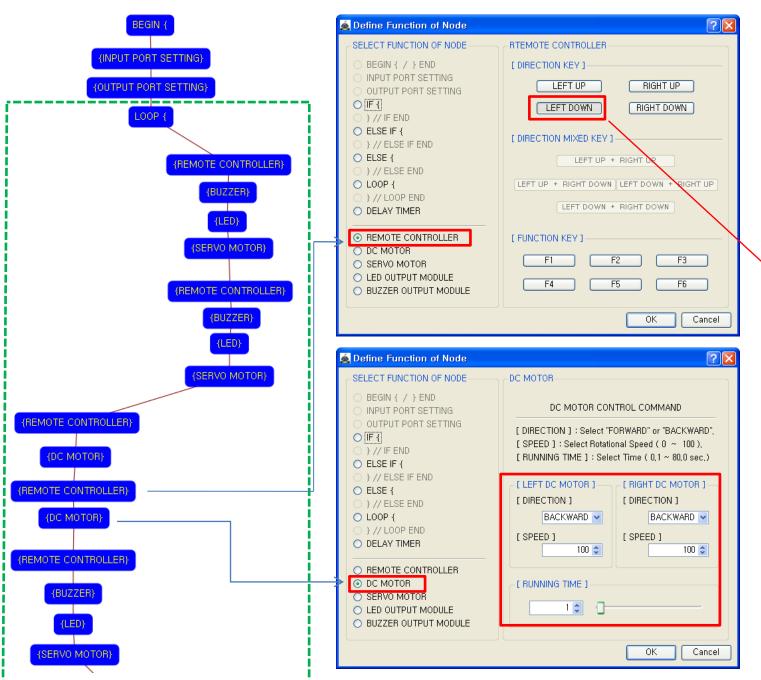
- Speed : 100

- Running Time : 1

→ Robot goes forward during 0.1 second

Although the setting value of running time is 0.1 seconds, the robot is going forward continuously during the "LEFT UP" key is pressed.





Set the "LEFT DOWN" key of remote controller.



Left DC Motor

- Direction : Backward

- Speed : 100

- Running Time : 1 Right DC Motor

- Direction : Backward

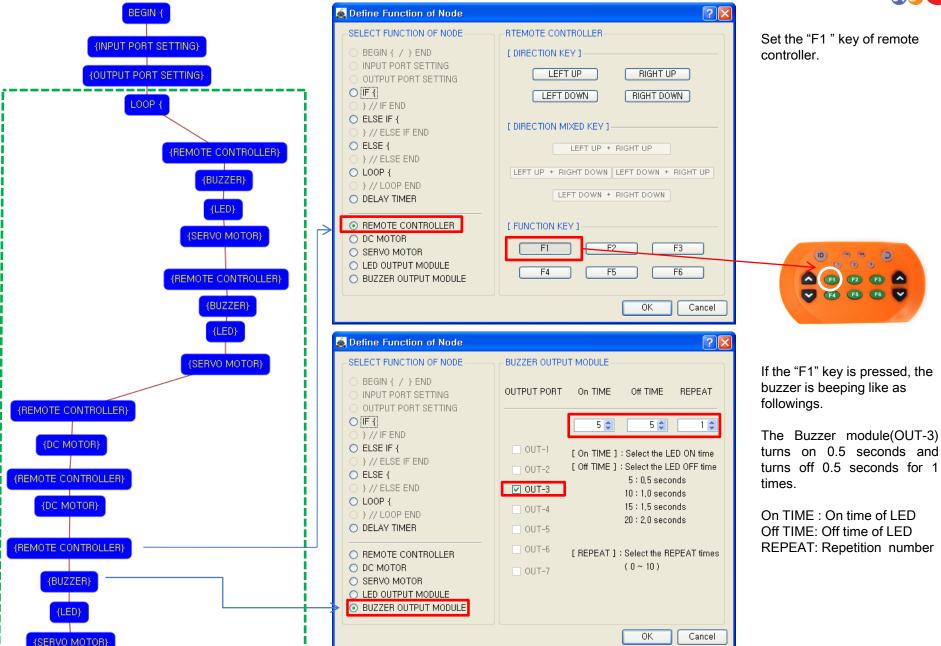
- Speed : 100

- Running Time : 1

→Robot goes backward during 0.1 second

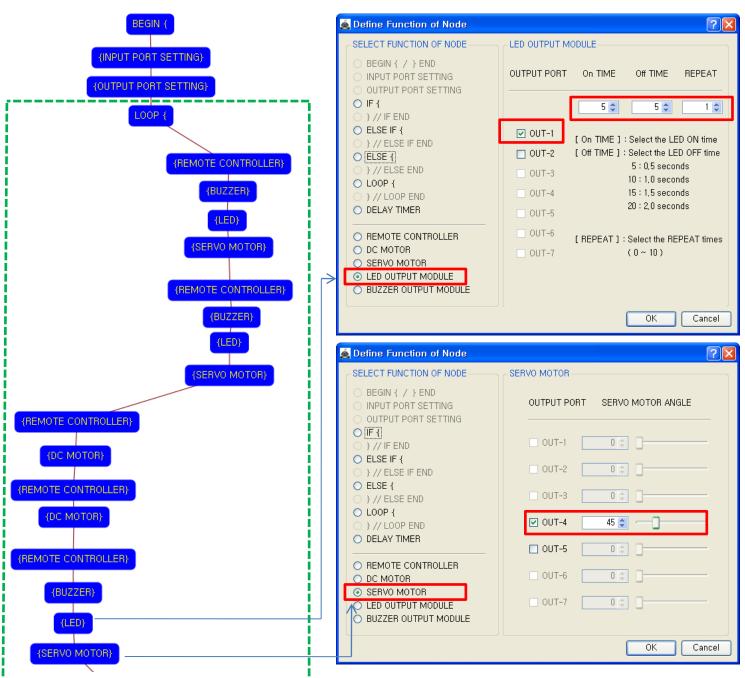
Although the setting value of running time is 0.1 seconds, the robot is going backward continuously during the "LEFT DOWN" key is pressed.





USER CREATIVE ROBOT





If the "F1" key is pressed, at first the Buzzer is beeping and then the both LEDs are flashing like as followings.

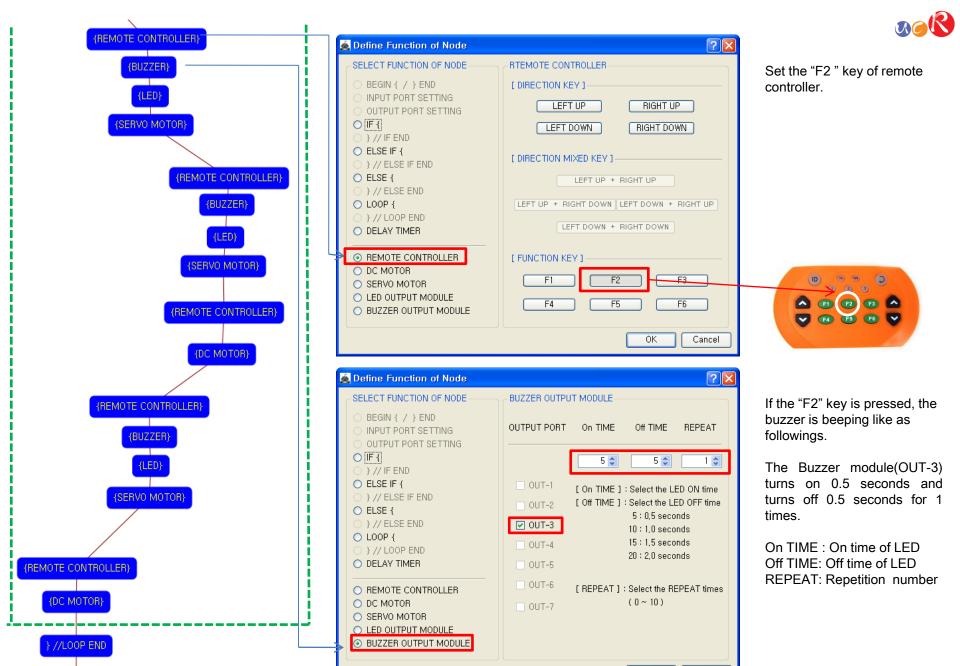
LED module (OUT-1) is turning on 0.5 seconds and turning off 0.5 seconds for 1 times.

On TIME: On time of LED Off TIME: Off time of LED REPEAT: Repetition number

If the "F1" key is pressed, the servo motor(OUT-4) sets to the 45 degree.

This make firearm spins left side.

(If the servo motor assembly is different with the assembly manual, the servo motor operation is different also)

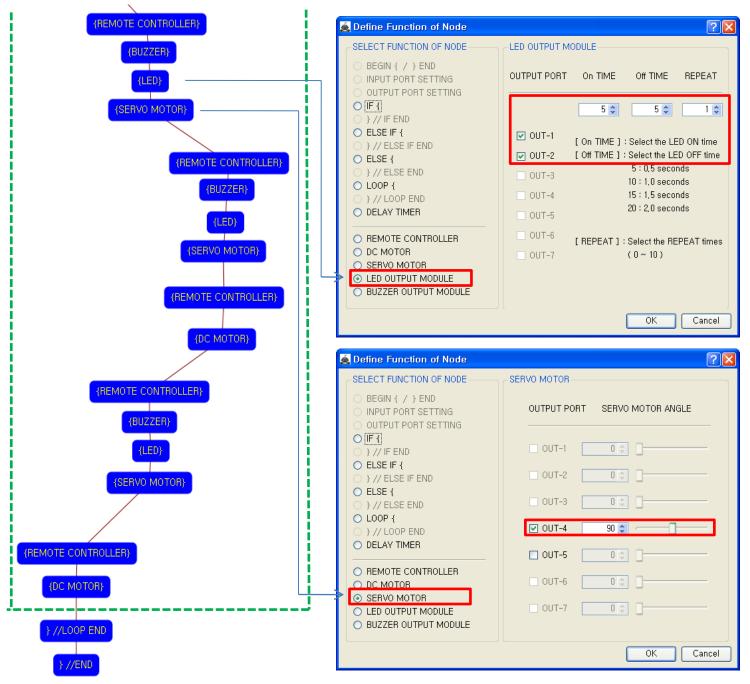


0K

Cancel

USER CREATIVE ROBOT





If the "F2" key is pressed, at first the Buzzer is beeping and then the both LEDs are flashing like as followings.

LED modules (OUT-1 & OUT-2) are turning on 0.5 seconds and turning off 0.5 seconds for 1 times.

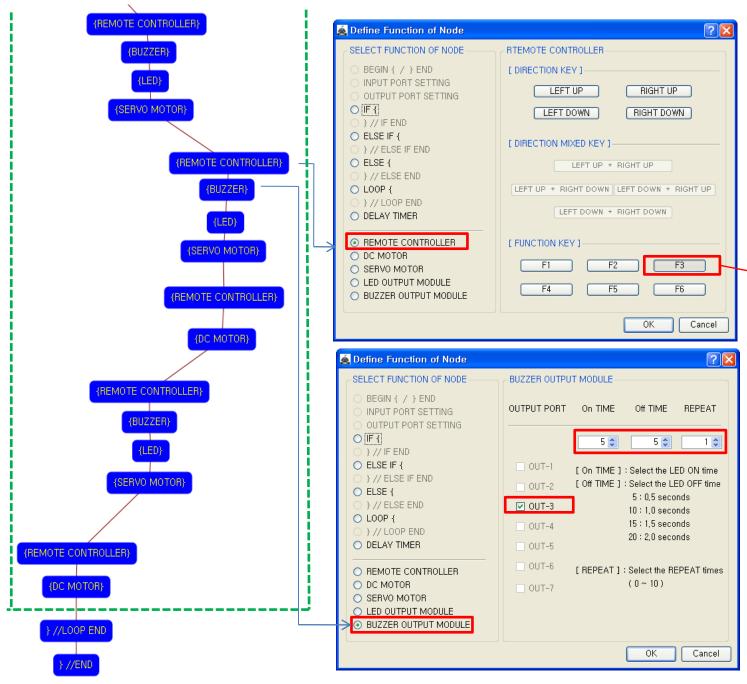
On TIME: On time of LED Off TIME: Off time of LED REPEAT: Repetition number

If the "F2" key is pressed, the servo motor(OUT-4) sets to the 90 degree.

This make firearm is positioned at center.

(If the servo motor assembly is different with the assembly manual, the servo motor operation is different also)





Set the "F3" key of remote controller.

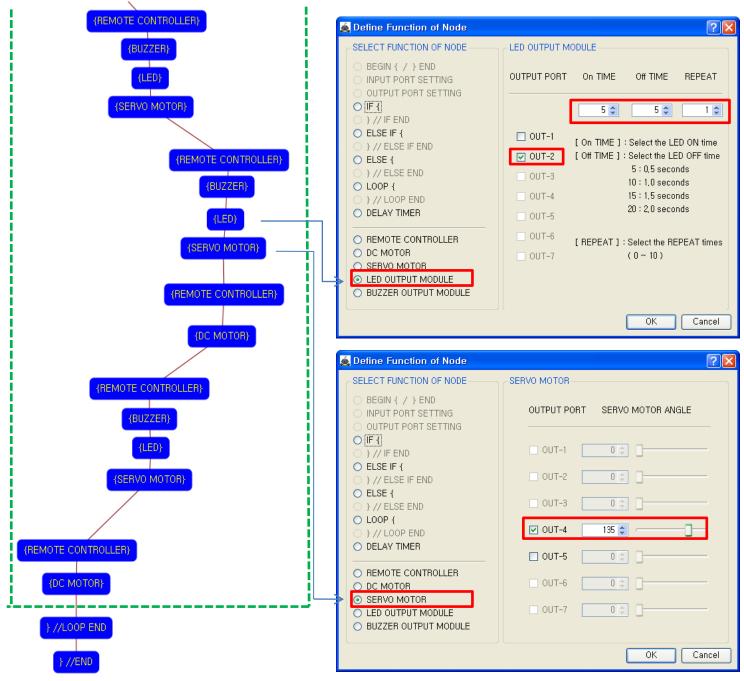


If the "F3" key is pressed, the buzzer is beeping like as followings.

The Buzzer module(OUT-3) turns on 0.5 seconds and turns off 0.5 seconds for 1 times.

On TIME: On time of LED
Off TIME: Off time of LED
REPEAT: Repetition number





If the "F3" key is pressed, at first the Buzzer is beeping and then the both LEDs are flashing like as followings.

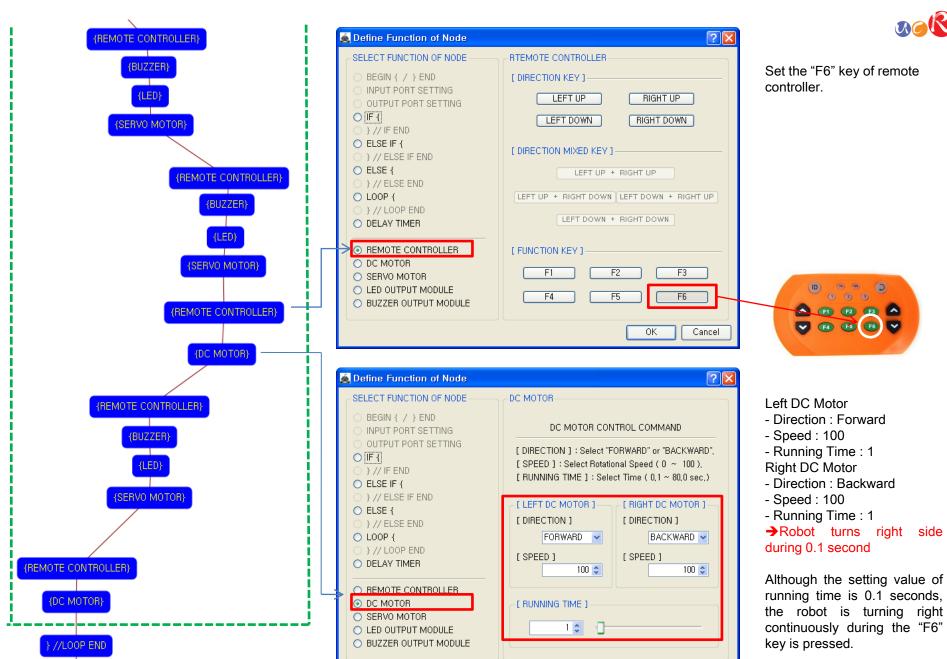
LED module (OUT-2) is turning on 0.5 seconds and turning off 0.5 seconds for 1 times.

On TIME: On time of LED Off TIME: Off time of LED REPEAT: Repetition number

If the "F3" key is pressed, the servo motor(OUT-4) sets to the 135 degree.

This make firearm spins right side.

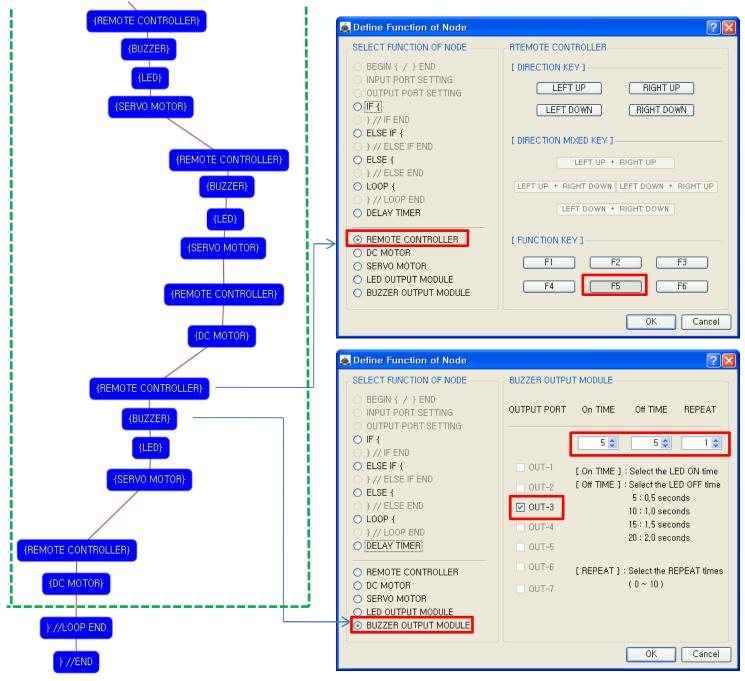
(If the servo motor assembly is different with the assembly manual, the servo motor operation is different also)



0K

Cancel





Set the "F5" key of remote controller.

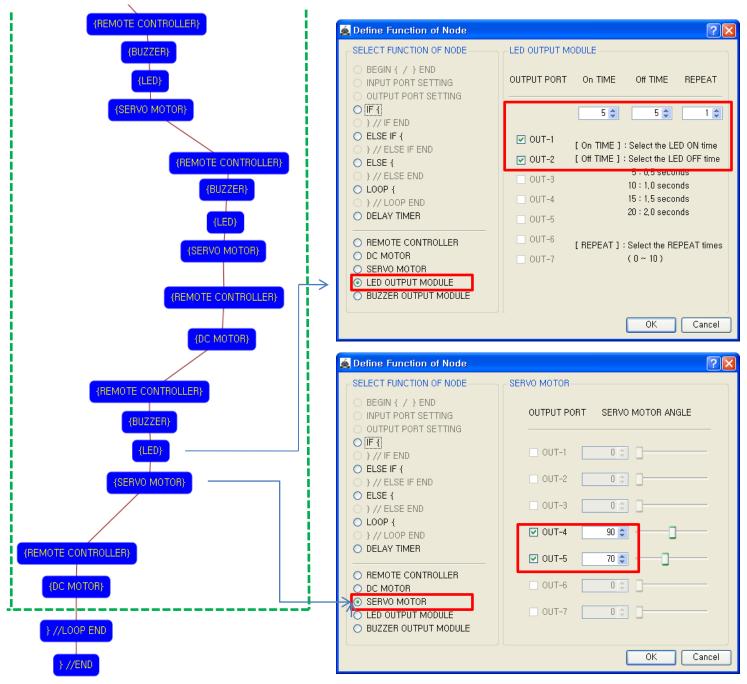


If the "F5" key is pressed, the buzzer is beeping like as followings.

The Buzzer module(OUT-3) turns on 0.5 seconds and turns off 0.5 seconds for 1 times.

On TIME: On time of LED
Off TIME: Off time of LED
REPEAT: Repetition number





If the "F5" key is pressed, at first the Buzzer is beeping and then the both LEDs are flashing like as followings.

LED modules (OUT1 & OUT-2) are turning on 0.5 seconds and turning off 0.5 seconds for 1 times.

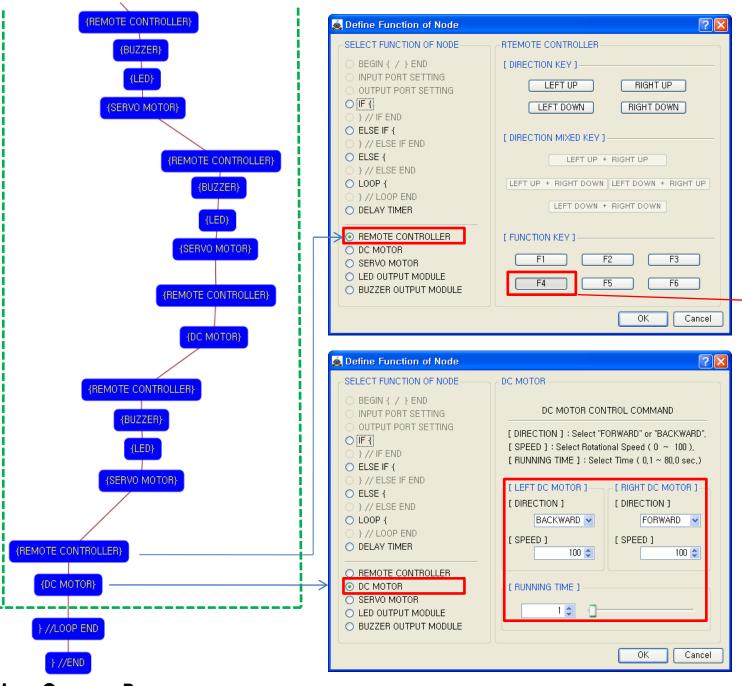
On TIME: On time of LED Off TIME: Off time of LED REPEAT: Repetition number

If the "F5" key is pressed, the servo motors(OUT-4 & OUT-5) sets to the 90 & 70 degree.

This make firearm's position is initialized.

(If the servo motor assembly is different with the assembly manual, the servo motor operation is different also)





Set the "F4" key of remote controller.



Left DC Motor

- Direction : Backward

- Speed : 100 - Running Time : 1 Right DC Motor

- Direction : Forward

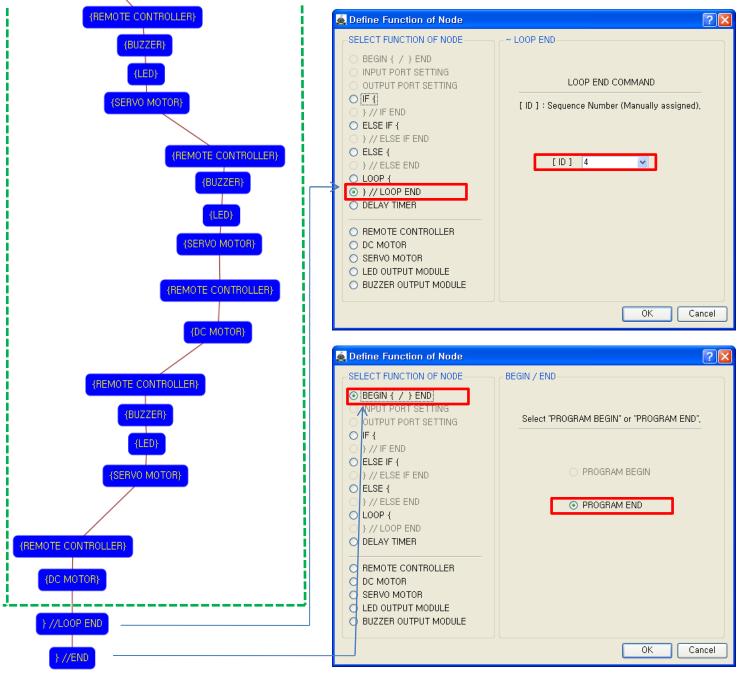
- Speed: 100 - Running Time: 1

→Robot turns left side during

0.1 second

Although the setting value of running time is 0.1 seconds, the robot is turning left continuously during the "F4" key is pressed.





The end point of "LOOP {" repetition command.

You have to assigned the ID of paired "LOOP {" repetition command.

(It is necessary to know that which "LOOP {" among the many "LOOP {" repetition commands in program.

This means that program ends hear.

You have to place this node at the end of program.

"PROGRAM BEGIN" is not active because you already define at the program.

To run the robot, it is necessary to download the program into the robot. (Refer to download manual)