EQ-ROBO Programming : Drum robot





Input: Remote signal receiver Output: DC motor, Servo motor Work: Driving, Turn waist and hit the drum.









®Turn right

9 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 Servo motors to the OUT-1, OUT-2 and OUT-3 output port of main board. The initial values of Servo motors are to be 85, 180 and 180.

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 "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

(OK) (20)

(F4)

(F1) (F2) (F3)

(F5) (F6) 🔽

3

remote controller.





DC MOTOR

-[LEFT DC MOTOR]-

FRUNNING TIME 1

BACKWARD 🔽

100 😂

1 🗘 🔄

0K

Cancel

[DIRECTION]

[SPEED]

? Left DC Motor - Direction : Backward DC MOTOR CONTROL COMMAND - Speed : 100 [DIRECTION] : Select "FORWARD" or "BACKWARD", - Running Time : 1 [SPEED]: Select Rotational Speed (0 ~ 100), Right DC Motor [RUNNING TIME] : Select Time (0,1 ~ 80,0 sec.) - Direction : Backward -[RIGHT DC MOTOR]-- Speed : 100 [DIRECTION] - Running Time : 1 BACKWARD 🗸 →Robot goes [SPEED] during 0.1 second 100 😂

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

backward







OUTPUT PORT SERVO MOTOR ANGLE

🔲 OUT-2

OUT-3

OUT-4

OUT-7

0 🗢 📋

0 0

0 0

0 0

0 0

0 0

0 0

0K

Cancel

Set the "F1 " key of remote controller.

(OK) (25)

(ID)

3

(F2 (F3 🛆

If the "F1" key is pressed, the servo motor(OUT-1) sets to the 0 degree.

This make robot turn waist to the left side.

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







OUT-5

OUT-6

0UT-7

O REMOTE CONTROLLER

O BUZZER OUTPUT MODULE

SERVO MOTOR SERVO MOTOR SERVO MOTOR SERVO MOTOR 0 0

0 0

0 0

0K

Cancel

Set the "F2 " key of remote controller.



If the "21" key is pressed, the servo motor(OUT-1) sets to the85 degree.

This make robot turn waist to the 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 servo motor(OUT-1) sets to the 180 degree.

This make robot turn waist to the right side.

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





Define Function of Node	? 🗙
SELECT FUNCTION OF NODE BEGIN { / } END INPUT PORT SETTING OUTPUT PORT SETTING [] } // IF END CELSE IF { } // ELSE IF END CELSE { } // ELSE END CELSE { } // ELSE END CELOP { } // LOOP END	RTEMOTE CONTROLLER [DIRECTION KEY] LEFT UP RIGHT UP RIGHT DOWN [DIRECTION MIXED KEY] LEFT UP + RIGHT UP LEFT UP + RIGHT UP
	LEFT DOWN + RIGHT DOWN [FUNCTION KEY] F1 F2 F3 F4 F5 F6 OK Cancel

- i	🙇 Define Function of Node	? 🛛
	DC MOTOR DC MOTOR CONTROL COMMAND [DIRECTION] : Select "FORWARD" or "BACKWARD". [SPEED] : Select Rotational Speed (0 ~ 100). [RUNNING TIME] : Select Time (0,1 ~ 80,0 sec.) [LEFT DC MOTOR] [DIRECTION] BACKWARD [[SPEED] [SPEED]	
		OK Cancel



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 "RIGHT UP" key is pressed.



the















0K

Cancel









The servo motor(OUT-2) is setting to the 80 degree.

This make only left hand to move down.

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

Set the delay time between the previous "{SERVO MOTOR}" and next "{SERVO MOTOR}" commands.

This adds the interval time between 2 commands for servo motor moving.

(Min value : 1 Max value: 200 The real delay time is 0.1 times of the setting value.

ex) 1 => 0.1 second 2 => 0.2 second





Servo motors(OUT-2 & OUT-3) are setting to the 180 & 80 degree.

This make left hand to move up and right hand to move down.

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

Set the delay time between the previous "{SERVO MOTOR}" and next "{SERVO MOTOR}" commands.

This adds the interval time between 2 commands for servo motor moving.

(Min value : 1 Max value: 200 The real delay time is 0.1 times of the setting value.

ex) 1 => 0.1 second 2 => 0.2 second



RAR

Servo motors(OUT-2 & OUT-3) are setting to the 180 & 180

This make both hands to move

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

Set the delay time between the previous "{SERVO MOTOR}" and next condition

This adds the interval time between 2 commands for previous servo motor moving.

Max value: 200 The real delay time is 0.1 times of the setting value.

ex) 1 => 0.1 second 2 => 0.2 second



