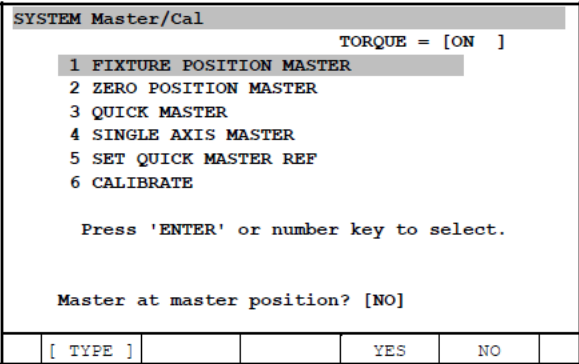
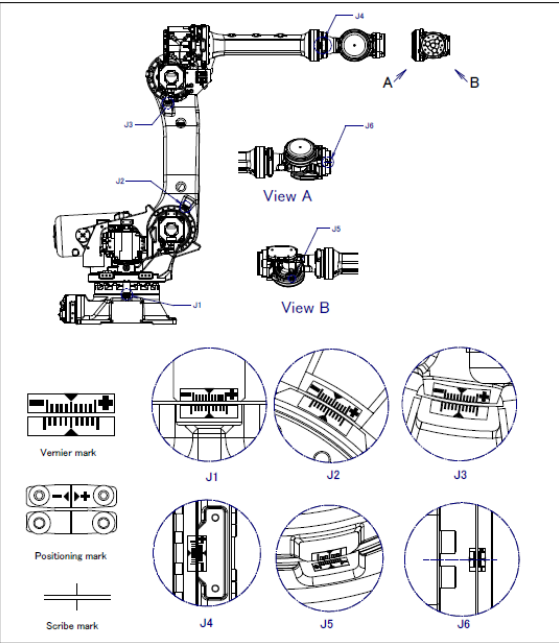


ZERO POSITION MASTER



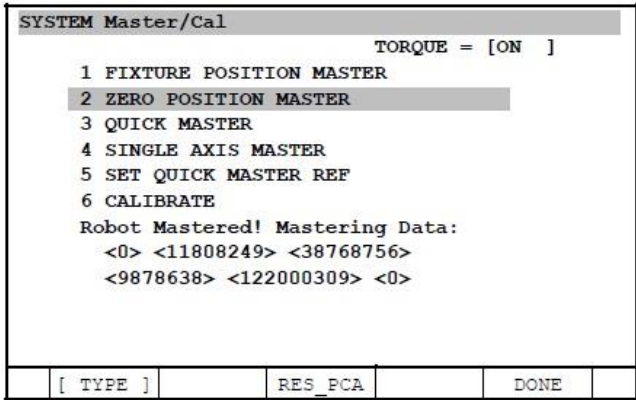
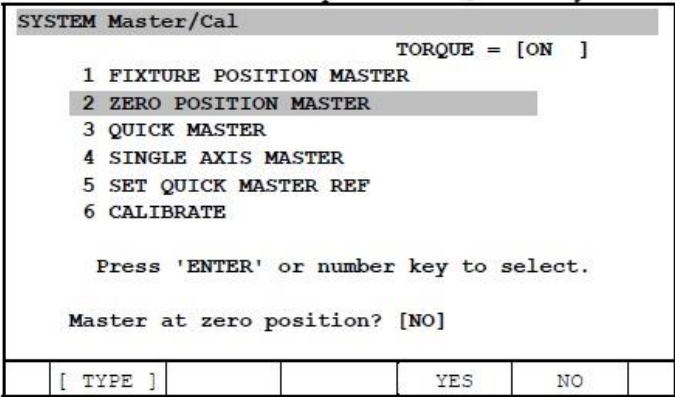
Move the robot by JOINT mode to the zero position for all axes.



SYSTEM Master/Cal screen

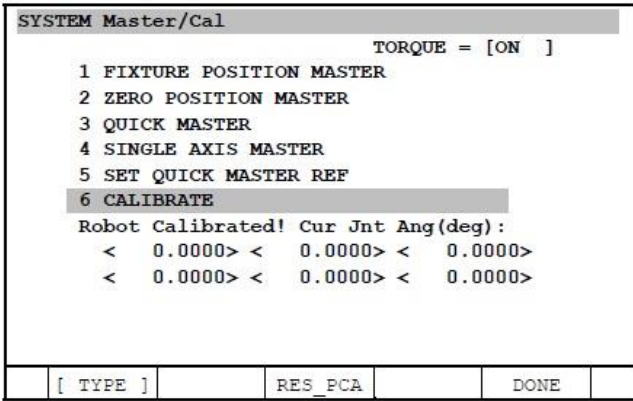
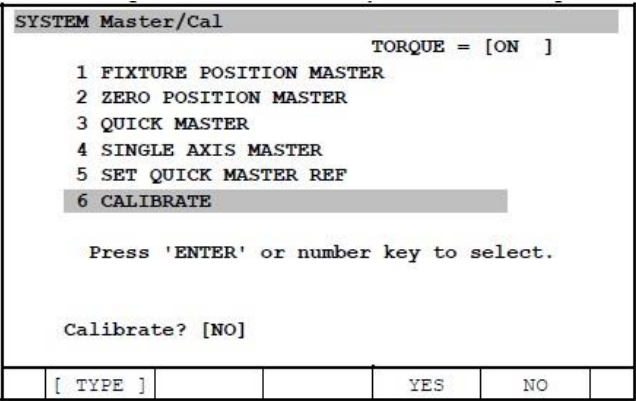
- Select 2 ZERO POSITION MASTER
- Press F4 YES

Mastering data is set.



- Select 6 CALIBRATE
- Press F4 YES

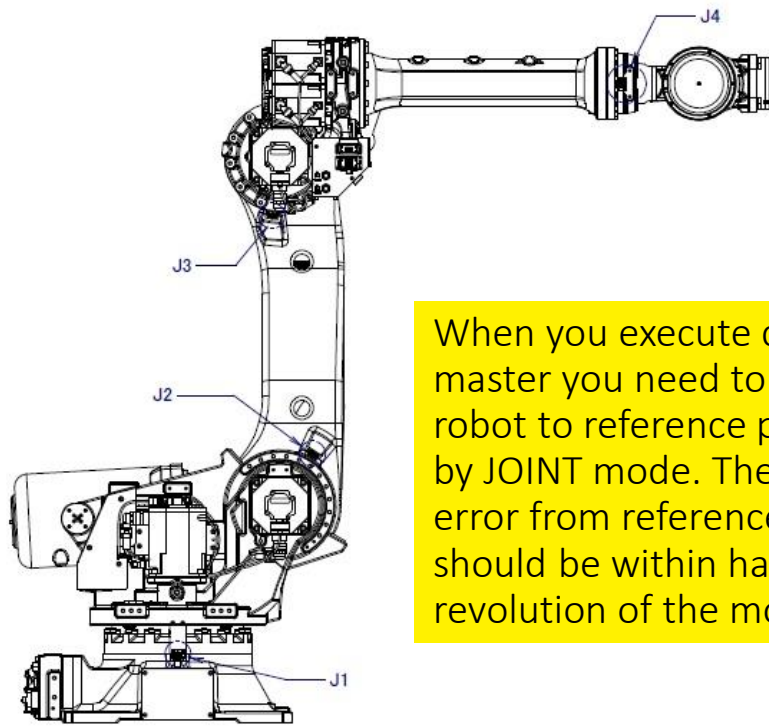
Calibration is performed.



QUICK MASTER

- If mastering data is lost due to empty of the backup battery for the pulse coder, quick mastering can be used.
- When the pulse coder is replaced or mastering data in the controller robot is lost, quick mastering cannot be used.

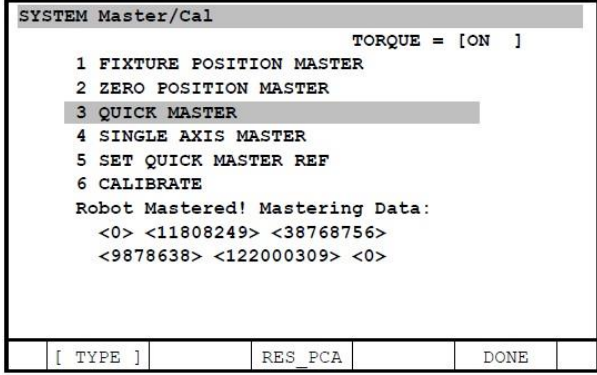
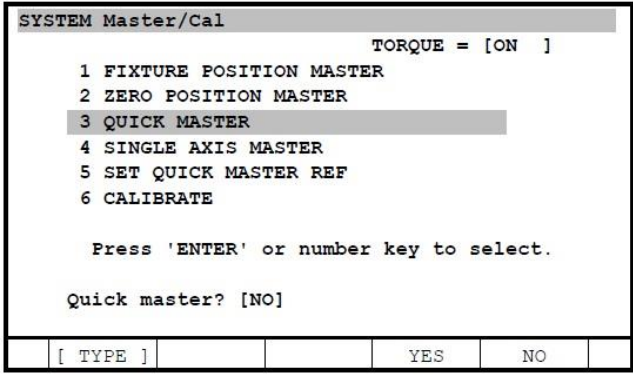
When you execute quick mastering, you need to move the robot to reference position(Factory set at zero position).



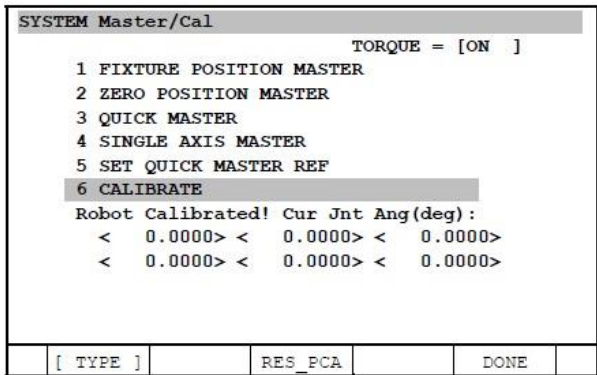
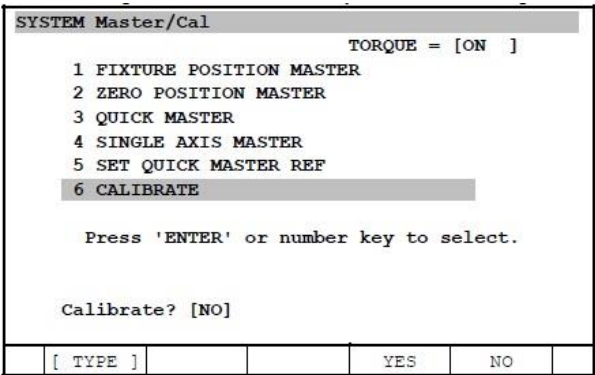
When you execute quick master you need to move the robot to reference position by JOINT mode. The position error from reference position should be within half revolution of the motor.

SYSTEM Master/Cal screen

- Select 3 QUICK MASTER
 - Press F4 YES
- Mastering data is set.



- Select 6 CALIBRATE
 - Press F4 YES
- Calibration is performed.



SINGLE AXIS MASTER

SYSTEM Master/Cal screen
- Select 4 SINGLE AXIS MASTER

SYSTEM Master/Cal

TORQUE = [ON]

1 FIXTURE POSITION MASTER

2 ZERO POSITION MASTER

3 QUICK MASTER

4 SINGLE AXIS MASTER

5 SET QUICK MASTER REF

6 CALIBRATE

Press 'ENTER' or number key to select.

[TYPE]

RES_PCA

DONE

In this example the mastering of J5 and J6 axis need to be executed.

SINGLE AXIS MASTER

1/9

	ACTUAL POS	(MSTR POS)	(SEL)	[ST]
J1	25.225	(0.000)	(0)	[2]
J2	25.550	(0.000)	(0)	[2]
J3	-50.000	(0.000)	(0)	[2]
J4	12.500	(0.000)	(0)	[2]
J5	31.250	(0.000)	(0)	[0]
J6	43.382	(0.000)	(0)	[0]
E1	0.000	(0.000)	(0)	[0]
E2	0.000	(0.000)	(0)	[0]
E3	0.000	(0.000)	(0)	[0]

GROUP

EXEC

Enter 1 to SEL setting field of the axis that you want to perform mastering.

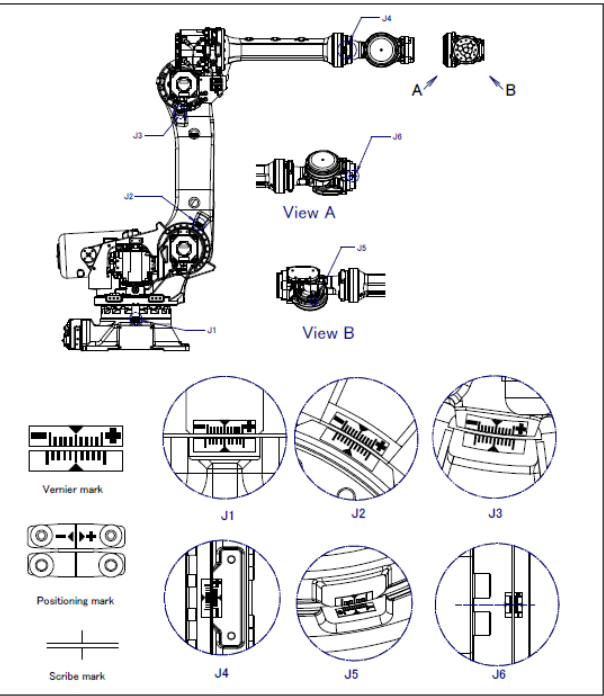
SINGLE AXIS MASTER

J5	31.250	(0.000)	(1)	[0]
J6	43.382	(0.000)	(1)	[0]

GROUP

EXEC

Log the robot to the mastering position. And then enter the axis data to the MSTR POS setting field.



Press F5, EXEC. The mastering is performed. SEL will set to 0 and ST will set to 2.

SINGLE AXIS MASTER

1/9

	ACTUAL POS	(MSTR POS)	(SEL)	[ST]
J1	25.225	(0.000)	(0)	[2]
J2	25.550	(0.000)	(0)	[2]
J3	-50.000	(0.000)	(0)	[2]
J4	12.500	(0.000)	(0)	[2]
J5	0.000	(0.000)	(0)	[2]
J6	90.000	(90.000)	(0)	[2]
E1	0.000	(0.000)	(0)	[0]
E2	0.000	(0.000)	(0)	[0]
E3	0.000	(0.000)	(0)	[0]

GROUP

EXEC

Press PREV key to SYSTEM Master/Cal display.
Select 6 CALIBRATE and Press F4 YES. Calibration is performed.

SYSTEM Master/Cal

TORQUE = [ON]

1 FIXTURE POSITION MASTER

2 ZERO POSITION MASTER

3 QUICK MASTER

4 SINGLE AXIS MASTER

5 SET QUICK MASTER REF

6 CALIBRATE

Press 'ENTER' or number key to select.

[TYPE]

RES_PCA

DONE