Troubleshooting

■When Error "＊2" occurs ("＊" is axis number)

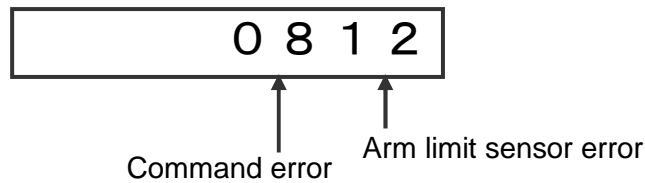Check the error number on the controller LED display.

〈When error occurs〉

　　The last four errors are displayed in 2- digit hexadecimal number.
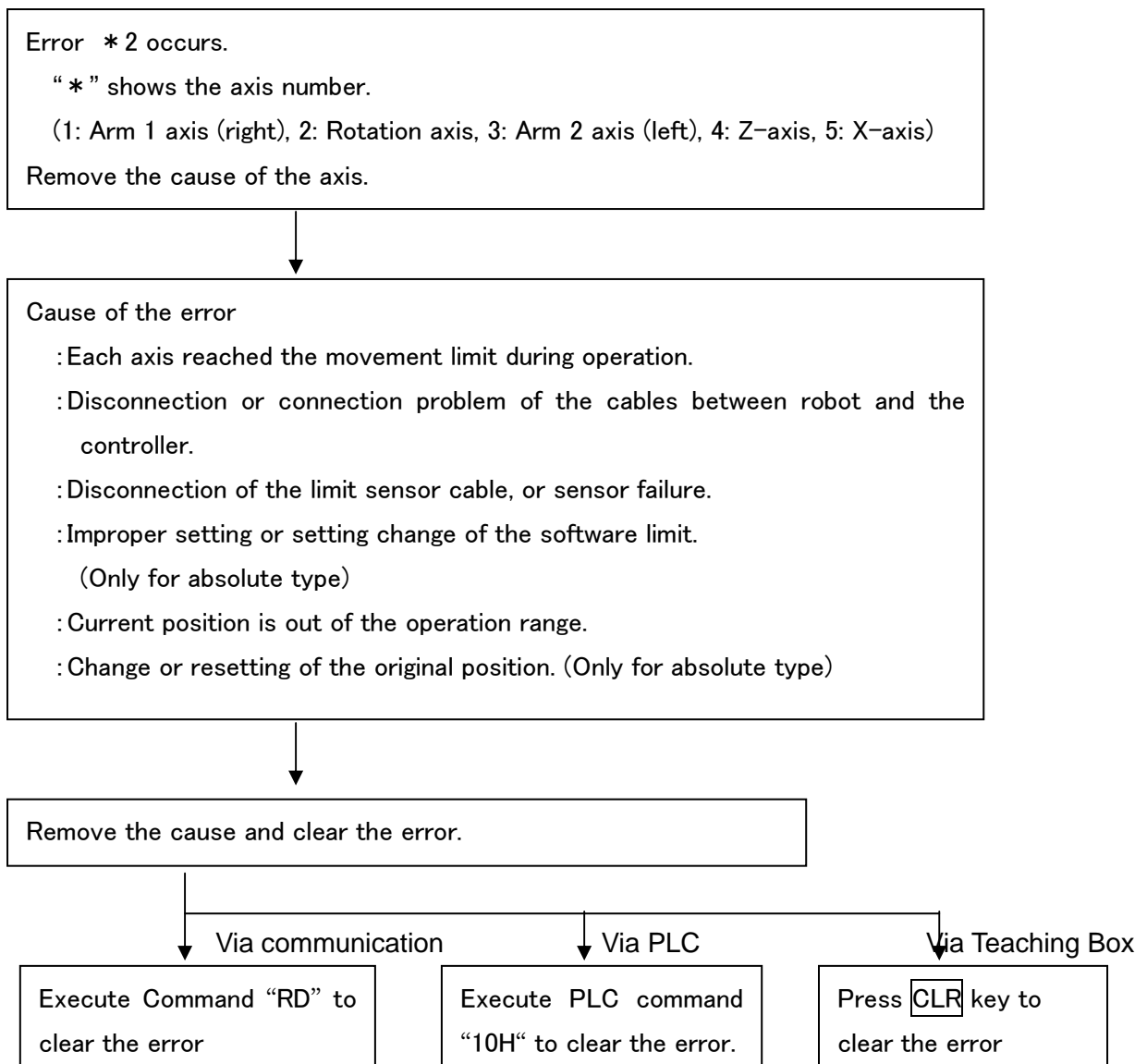
　　The latest error is shown on the leftmost side and the error history is shown in order.
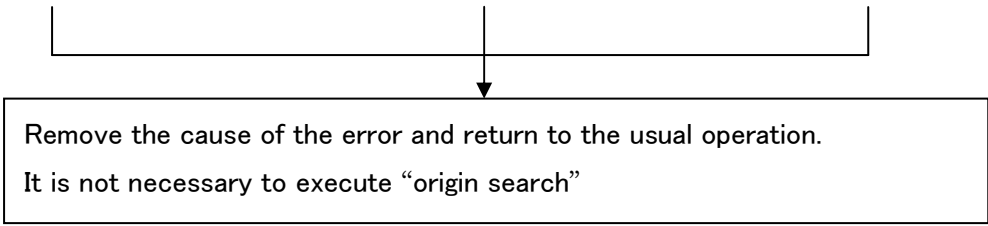
　　Remove the cause of the error (Refer to the below tables) and return to the normal operation.

〈Example of display〉

```
┌─────────────────────────┐
│        0  8  1  2        │
└─────────────────────────┘
                ↑     ↑
         Command error  Arm limit sensor error
```

●When Error "＊2" (limit stop) occurs,

```
┌─────────────────────────────────────────────────────────────┐
│  Error ＊2 occurs.                                            │
│    "＊" shows the axis number.                                │
│    (1: Arm 1 axis (right), 2: Rotation axis, 3: Arm 2 axis (left), 4: Z-axis, 5: X-axis) │
│  Remove the cause of the axis.                               │
└─────────────────────────────────────────────────────────────┘
                              │
                              ▼
┌─────────────────────────────────────────────────────────────┐
│  Cause of the error                                          │
│    : Each axis reached the movement limit during operation.  │
│    : Disconnection or connection problem of the cables between robot and the │
│      controller.                                             │
│    : Disconnection of the limit sensor cable, or sensor failure. │
│    : Improper setting or setting change of the software limit. │
│      (Only for absolute type)                                │
│    : Current position is out of the operation range.         │
│    : Change or resetting of the original position. (Only for absolute type) │
└─────────────────────────────────────────────────────────────┘
                              │
                              ▼
┌─────────────────────────────────────────────────────────────┐
│  Remove the cause and clear the error.                       │
└─────────────────────────────────────────────────────────────┘
```

Via communication	Via PLC	Via Teaching Box
Execute Command "RD" to clear the error	Execute PLC command "10H" to clear the error.	Press CLR key to clear the error

Remove the cause of the error and return to the usual operation.

It is not necessary to execute "origin search"

●When the error occurs again

Check the connector.
Check if there is no disconnection of the cable.

■No disconnection
Check if the current position is within the operation range.

■Disconnected.
Turn the power OFF and plug the connector properly.
In the case of disconnection, replace the cables.

■Within the range
Check if the error can be cleared.

■Out of the range
: Execute the origin search with ORG button of the teaching box.
: After turning the power OFF, move the robot back around the ORG position manually and restart the operation.
: For absolute type: check if the setting of the software limit or origin is not changed.

■Can be cleared
When operating the robot, the error occurs.

■Cannot be cleared
: After turning the power OFF, move the robot back around the ORG position manually and restart the operation.
: For absolute type: check if the setting of the software limit or origin is not changed.

Check the robot serial number and contact JEL service section.
(E-mail: mente@jel-robot.co.jp)