Upon receipt of the product and prior to initial operation, read these instructions thoroughly, and retain for future reference.

The DX100 operator’s manuals above correspond to specific usage. Be sure to use the appropriate manual.
Introduction

This supplement instruction manual describes how YR-MA01440-A71 (hereinafter referred to as MA1440-A71) is different from the YR-MA1440/MH12-A00 (MOTOMAN-MA1440) (hereinafter referred to as MA1440-A00).

When using MA1440-A71, read this supplement instruction manual thoroughly with:
“MOTOMAN-MA1440 INSTRUCTIONS” (165830-1CD).

Differences

The MA1440-A71 differ from the MA1440-A00 in the following points:

1. Controller
   • The type of controller is different.
     DX200 → DX100

2. Axis Name, Axis Direction
   • Axes are differently named as follows.

<table>
<thead>
<tr>
<th>S-axis</th>
<th>→</th>
<th>JT1-axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-axis</td>
<td>→</td>
<td>JT2-axis</td>
</tr>
<tr>
<td>U-axis</td>
<td>→</td>
<td>JT3-axis</td>
</tr>
<tr>
<td>R-axis</td>
<td>→</td>
<td>JT4-axis</td>
</tr>
<tr>
<td>B-axis</td>
<td>→</td>
<td>JT5-axis</td>
</tr>
<tr>
<td>T-axis</td>
<td>→</td>
<td>JT6-axis</td>
</tr>
</tbody>
</table>

   • Also, following axes have different rotating directions.

   | JT1 (S)    |
   | JT4 (R)    |
   | JT6 (T)    |

3. Dimension
   • With Servo ON Lamp
   • With S-, L-, U-axis overrun limit switch

4. Internal Connections

The differences are described based on “MOTOMAN-MA1440 INSTRUCTIONS” (165830-1CD). Read this manual thoroughly replacing the subject matters for changes with this supplementary instruction manual.
1 Product Confirmation

1.2 Order Number Confirmation

The type of controller is different.

*Fig. 1-1: Location of Order Number Labels*

![Enlarged View of Label](image)

Check that the manipulator and the DX100 have the same order number.

(a) DX 100 (Front View)  
(b) Manipulator (Side View)
4 Wiring

4.2 Cable Connection

Because the type of controller is different, the location to connect manipulator cables is different.

Fig. 4-3(b): Manipulator Cable Connection (DX100 Side)
5.2 Part Names and Working Axes (page 5-2)

JT1-, JT4-, JT6-axis have different rotary directions.

Fig. 5-1: Part Names and Working Axes

JT1-, JT2+, JT2-, JT3+, JT3-, JT4+, JT4-, JT5+, JT5-, JT6+, JT6-

Wrist flange

Upper arm (U-arm)

Wrist

Lower arm (L-arm)

Turning head (S-head)

Manipulator base
The Dimensions are different since this manipulator has a Servo ON Lamp.

Fig. 5-3(a): Dimensions and P-Point Maximum Envelope (YR-MA01440-A71)
8.2 Internal Connections (page 8-3)

The Internal Connection Diagram is changed because the type of the controller is different.

Fig. 8-3(a): Internal Connection Diagram
Fig. 8-3(b): Internal Connection Diagram
MOTOMAN-MA1440
INSTRUCTIONS
SUPPLEMENTARY FOR TYPE: YR-MA01440-A71

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Specifications are subject to change without notice
for ongoing product modifications and improvements.