MOTOMAN-MS80W
INSTRUCTIONS

SUPPLEMENTARY FOR TYPE: YR-MS0080W-A23

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

MOTOMAN INSTRUCTIONS

MOTOMAN-MS80W INSTRUCTIONS
DX100 INSTRUCTIONS
DX100 OPERATOR'S MANUAL
DX100 MAINTENACE MANUAL

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

Part Number: 163548-1CD
Revision: 0

YASKAWA
MOTOMAN ROBOTICS

MANUAL NO.
HW1481428

Introduction

This supplementary instruction manual describes how YR-MS0080W-A23 (hereinafter referred to as MS0080W-A23) is different from the YR-MS0080W-A00 (hereinafter referred to as MS0080W-A00).

When using MS0080W-A23, read this supplementary instruction manual thoroughly with:
“MOTOMAN-MS80W INSTRUCTIONS” (Manual No. 159328-1CD).

Differences

The MS0080W-A23 differ from the MS0080W-A00 in the following points:

1. Axis Name, Axis Direction

   (1) Axis Name, Axis Direction

   • Axes are differently named as follows.

S-axis	→	JT1-axis
L-axis	→	JT2-axis
U-axis	→	JT3-axis
R-axis	→	JT4-axis
B-axis	→	JT5-axis
T-axis	→	JT6-axis

   • Also, following axes have different rotating directions.

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

   (2) Dimension

   • With Servo ON Lamp

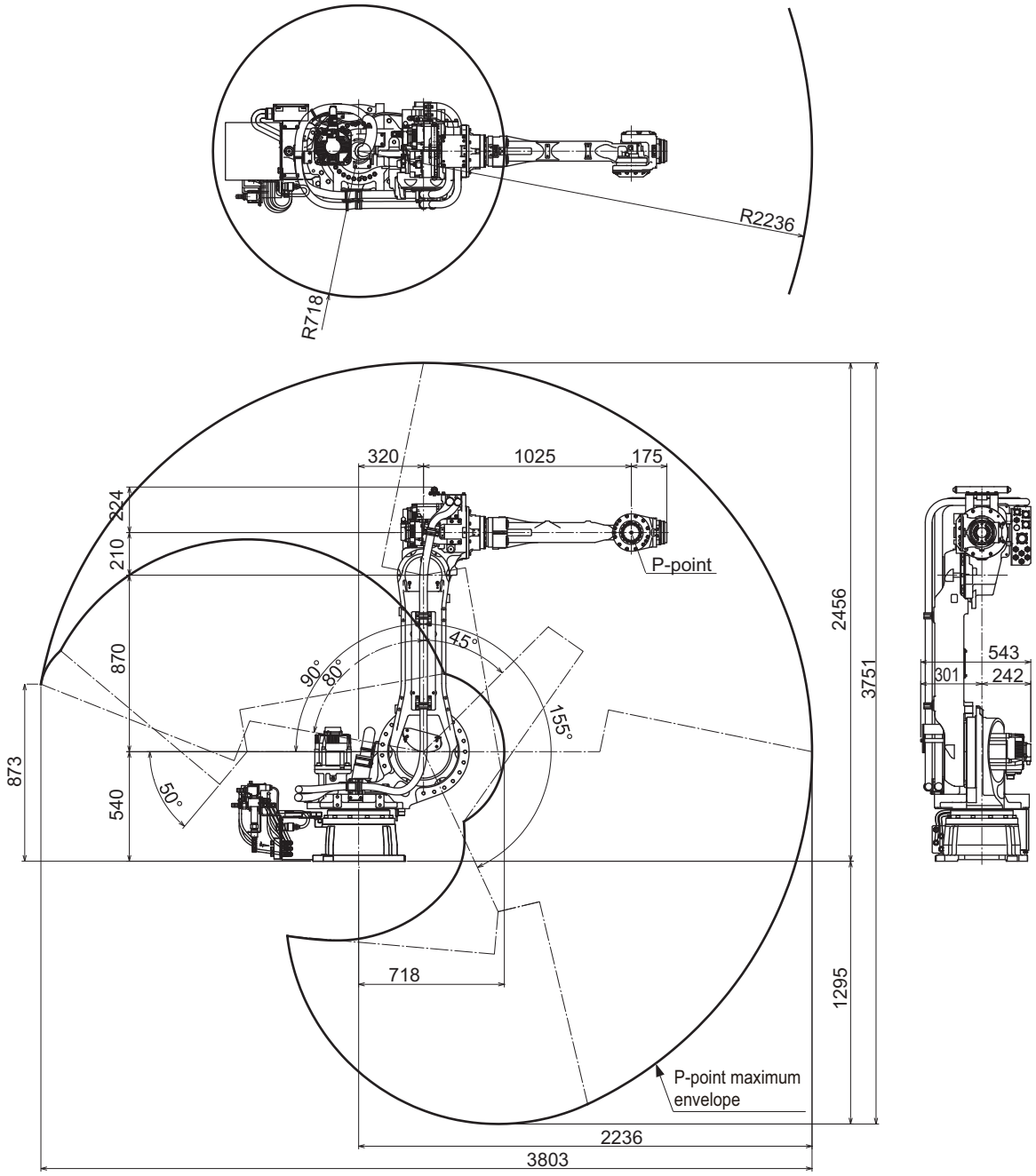
2. Internal Cable

   • The system connection of the cooling water hose changes in the third system from the second system.

The differences are described based on
“MOTOMAN-MS80W INSTRUCTIONS”(Manual No. 159328-1CD).
Read this manual thoroughly replacing the subject matters for changes with this supplementary instruction manual.

5.4 Dimensions and P-Point Maximum Envelope(5-3)

Fig. 5-3: Dimensions and P-Point Maximum Envelope



7 System Application

7.1 Peripheral Equipment Mounts (7-1 page)

The peripheral equipment mounts are provided on the U-axis (upper arm) as shown in *fig. 7-1 "Installing Peripheral Equipment"* for easier installation of the users's system applications. The following conditions shall be observed to attach or install peripheral equipment.

Fig. 7-1: Installing Peripheral Equipment

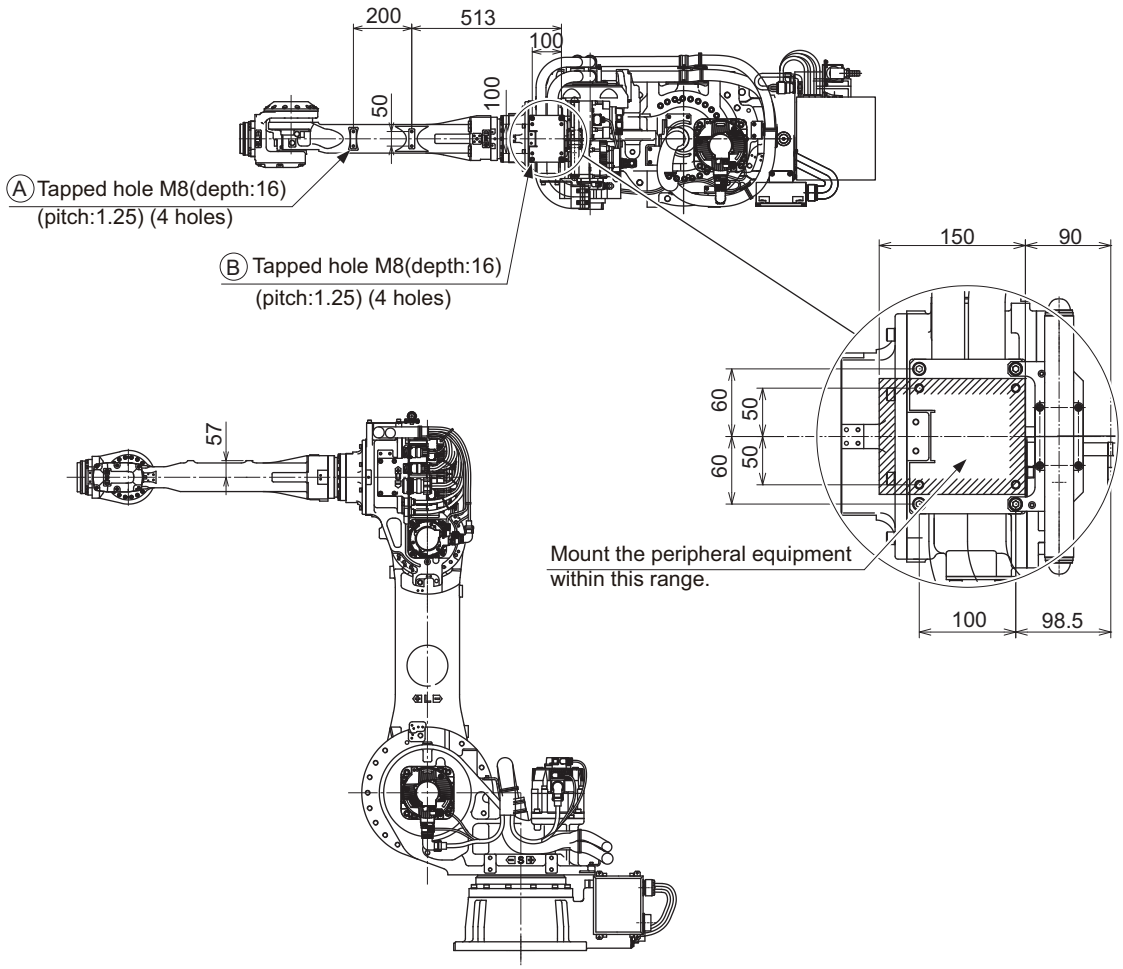


Table 7-1: Constraint for Attaching

Section	Application	Note
A	Cable processing	Up to 80 kg for attaching load mass including wrist load.
B	Cable processing and valve, etc mounting	Up to 10 kg. 49 N•m (5 kgf•m) max. for increased moment amount of upper arm

7.2 Internal User I/O Wiring Harness and Air Lines for User's System Applications (7-2 page)

Internal user I/O wiring harness, encoder or power cables for external axis, cables for primary source for welding power, thermostat transformer cables and hoses for air or cooling are incorporated in the manipulator for the drive of peripheral devices mounted on the upper arm as shown in *fig. 7-2 "Connectors for Internal User I/O Wiring Harness and Air Lines for User's applications"* and *ffig. 7-2 "Connectors for Internal User I/O Wiring Harness and Air Lines for User's applications"*

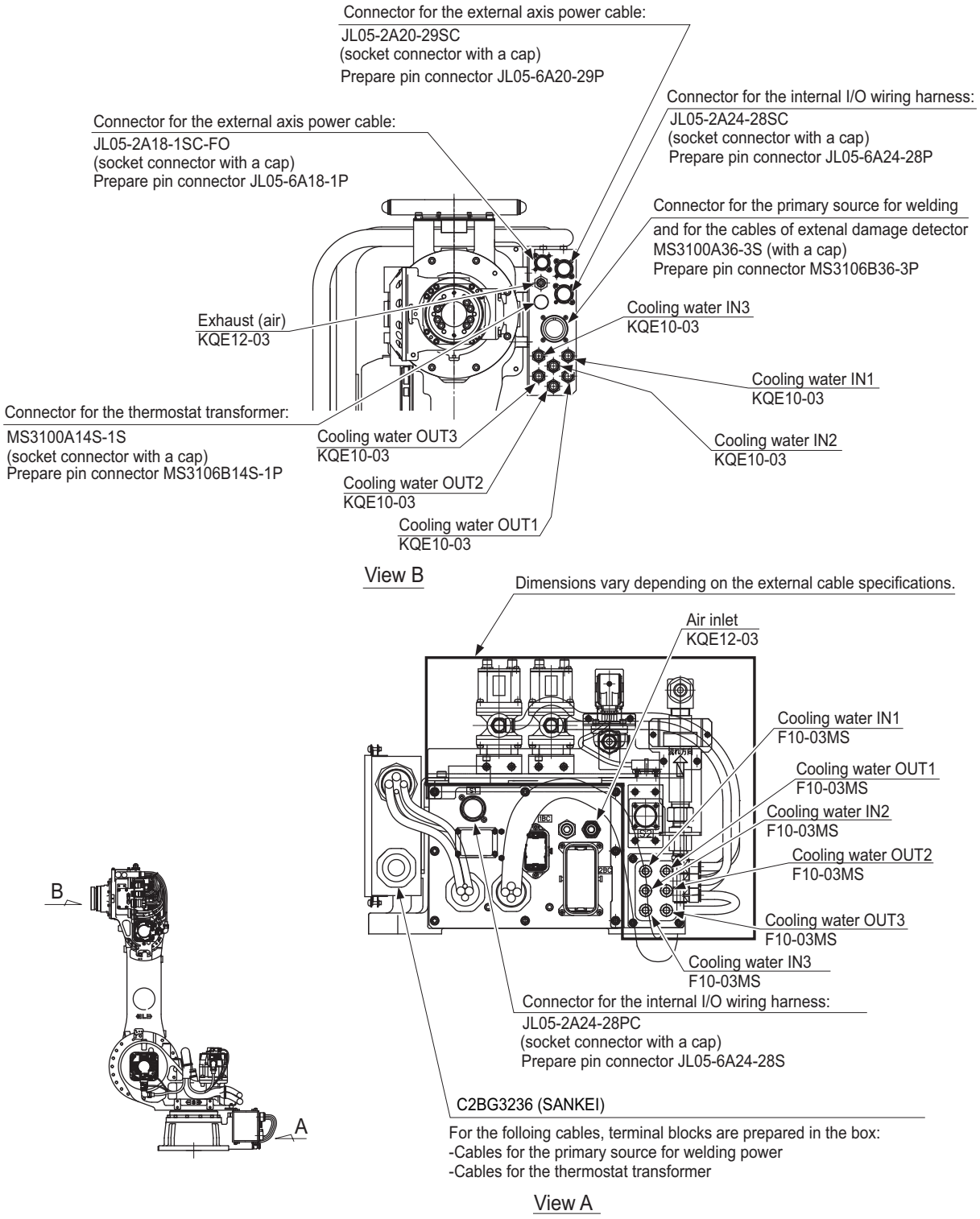
Table 7-2: Internal User I/O Wiring Harness and Air Lines for Use's Applications

Item	Specification		Conditions
Internal user I/O wiring harness	0.5 mm^2 × 23 wires	For the pin allocation, refer to *.fig. 7-3 "Details of the Connector Pin NUmbers" at page 7-4*	5.8 A or less per a wire. The total current value must be 36 A or less.
Encoder cable for external axis	0.2 mm^2 × 6 cables		3.9 A or less per a wire. The total current value must be 12.8 A or less.
Power cable for external axis	2 mm^2 × 4 cables 0.75 mm^2 × 2 cables		2 mm^2: 16.1 A or less per a wire 0.75 mm^2: 9.0 A or less per a wire The total current value must be 51.4 A or less.
Cable for primary source for welding	21 mm^2 × 2 cables 10 mm^2 × 1 cable[1)]		21 mm^2: 150 A or less per a wire The total current value must be 255 A or less.
Cable for thermostat transformer	0.75 mm^2 × 3 cables		7.7 A or less per a wire The total current value must be 29.2 A or less.
Air hose	Inside dia. 8.0 mm × 1 hose		490 kPa (5 kgf/cm^2) or less
Hose for cooling	Inside dia. 6.5 mm × 6 hoses		300 kPa (5 kgf/cm^2) or less

1 For ground wires

7.2 Internal User I/O Wiring Harness and Air Lines for User's System Applications (7-2 page)

Fig. 7-2: Connectors for Internal User I/O Wiring Harness and Air Lines for User's applications



YASKAWA

MOTOMAN-MS80W
INSTRUCTIONS

SUPPLEMENTARY FOR TYPE: YR-MS0080W-A23

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