

# MOTOMAN INSTRUCTIONS

## SUPPLYMENTARY

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

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Part Number: 157778-1CD  
Revision: 0



YASKAWA

MANUAL NO.

**HW1480007**

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HP20RD

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## Introduction

This supplementary manual describes about MOTOMAN manipulators.

Read this supplementary manual thoroughly together with the manipulator instruction manual (“MOTOMAN-\*\*\* INSTRUCTIONS”).

## Added Part

The following point is newly added to the description in the manipulator instruction manual.

- Notes on Grease Replenishment/Exchange Procedures

The differences are described based on the manipulator instruction manual. According to this supplementary manual, read the manipulator instruction manual thoroughly and add this supplementary instruction when replenishing/exchanging grease.

However, the chapter number in the manipulator instruction manual may differ from that in this supplementary manual depending on the manipulator type. If so, refer to the part with the same chapter title.

### 9.3 Notes on Grease Replenishment/Exchange Procedures

Make sure to follow the instructions listed below at grease replenishment/exchange. Failure to observe the following notes may result in damage to motor and speed reducer.



- If grease is added without removing the plug/screw from the grease exhaust port, the grease will leak inside a motor or an oil seal of a speed reducer will come off, which may result in damage to the motor. Make sure to remove the plug/screw.
- Do not install a joint, a hose, etc. to the grease exhaust port. Failure to observe this instruction may result in damage to the motor due to coming off of an oil seal.
- Make sure to use a grease pump to inject grease. Set air supply pressure to the grease pump at 0.3 MPa or less, and the grease injection rate at 8 g/s or less.
- Make sure to fill the hose on the grease inlet with grease beforehand to prevent air from leaking into the speed reducer.

Add "Air supply pressure of grease pump" and "Grease injection rate" to "Grease Replenishment/Exchange Procedures" of each part.

#### 9.3.\*.\* Grease Replenishment/Exchange for \*\*\*

<Before change>

3. Inject grease through the grease inlet using a grease gun.
  - Grease type: \*\*\*\*\* 1)
  - Amount of grease: \*\*\* cc<sup>2</sup>  
(\*\*\* cc<sup>2</sup>) for the 1st supply)
  - Air supply pressure of grease pump: 0.3 MPa or less
  - Grease injection rate: 8 g/s or less

1 For the grease type, refer to the manipulator instruction manual.

2 For the amount of grease, refer to the manipulator instruction manual

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for ongoing product modifications and improvements.

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