

Yaskawa Motoman DX100, DX200 Programming Pendant



Pendant CF and USB Connections



Turning Off Power To The DX100/200 Controller

Before turning off the DX100 controller power, all servo motors should be disabled via any 3-Stop or switch to TEACH mode. (All preventive maintenance power procedures are based on accumulated Servo Power Hours.)

3-STOP Servo Motors before Shutdown

The servo power should not be left ON when the system is not Operating. Press an 3-Stop or switch to TEACH mode. (All preventive maintenance power procedures are based on accumulated Servo Power Hours.)

After servo motors are shutdown, turning the Main Power Switch OFF removes all external power to the DX100 controller.

Main Power Switch (OFF)

Mode Selection Switch

Three mode selection buttons control the robot system. These are Teach, Play, and Remote (Play).

Teach Mode: Status Icon

In TEACH mode, the user has control for jogging the robot and External Axis motion. Programming, editing, maintaining, and other basic functions become available based on the level of Security.

Play Mode: Status Icon

In PLAY mode, the START button becomes functional and the STOP key control of job execution. Special playback UTILITY menu choices become available.

Changing modes from PLAY to TEACH during playback will cause the program to pause operation.

To resume, select PLAY, SERVO-ON and START.

Remote (Play) Mode: Status Icon

The REMOTE mode allows control from an optional external device such as a remote operator station, programmable logic controller or a host computer.

In order to turn on servo power in Teach mode, perform the following:

- Release all 3-Stop.
- Press the SERVO-ON/READY button. The **READY** lamp will flash signifying "ready" state.
- Press the SERVO-ENABLE switch to enable ON position.

Fully released or fully compressed causes the servo motors to turn OFF and all motion to be stopped.



Area Key

The AREA key can be used in place of touching the screen to access the following areas for editing and selection purposes: Menu Menu, Menu Area, Command Display area, the Software List screen if active, as well as the Motion Monitor Area when the software list is active. The background surrounding the active area is blue.

Start Button: Status Icon

In Play mode, with servo power ON, pressing the START button will begin execution of a job from the last the center is in to the END CONTEXT.

The START button enables the system from the controller's running the program. Also, the START button's indicator light will be ON whenever the TEACH mode INTERLOCK-RESET START method of operation is performed.

Reset Button: Status Icon

Pressing the RESET button stops execution of a job in the PLAY mode, the START light turns off. The RESET button light does not flash ON while the system is in the pending RESET. Servo power remains ON, and the robot can be applied.

To resume execution of the program, press the START button.

If the system was put into hold mode (External HOLD from an Operator's Station button, etc.), the message line will display **HOLD**.

It must be released before resume is possible.

A RESET or 3-Stop followed by Start button setting must also be released RESET before resuming.

Servo-On/Ready Button

In PLAY mode, pressing the SERVO-ON/READY button initiates a sequence that enables power to the servo motors and releases all brakes. The **READY** light will indicate the status. Playback of any job mode or motion routine must be not possible unless servo power is applied.

In TEACH mode, pressing the SERVO-ON/READY button will only cause the indicator **READY** to flash that it is "Ready" for the system to be stopped. Servo power can be applied by activating the Servo Enable Switch located on the back left side of the pendant.

All Alarms, Errors, and 3-STOPs must be cleared prior to pressing the SERVO-ON/READY button in either PLAY mode or TEACH mode.

Cursor Key

The CURSOR key moves the active cursor up/down or right/left to highlight a desired item on any screen. When the cursor is on an item that has a black background with yellow characters, such as the job list screen, the highlighted selection cannot be executed by touching the screen; the SELECT key must be used.

Pushing Up or Down will activate rapid scroll to the top/bottom of a job or list.

The SERVO + Up/Down for permanent motion of servo when within a job screen or list.

Select Key

The SELECT key is used to choose the item currently highlighted by the cursor or to open the prompt window to enter data. INTERLOCK + SELECT is used to force External Control OFF, and SERVO + SELECT can be used to highlight a section of a job screen for COPY, PASTE, CHAINING, OFFSET, and YES.

Cancel

The CANCEL key is located next to the START key. If an unwanted selection or entry has been made, press CANCEL.



Motoman Dx Programming Manual

ML Morrison



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