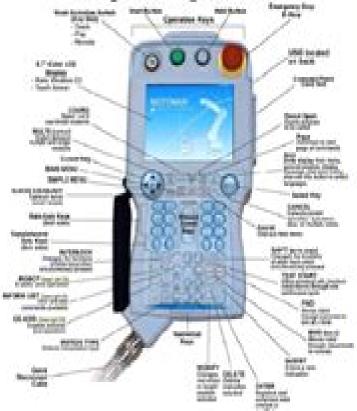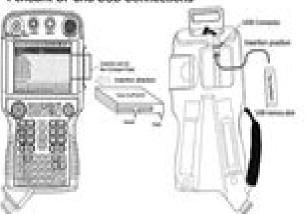# Yaskawa Motoman DX100, DX200
Programming Pendant

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 shutdown via any E-Stop if the system will be left in the PLAY mode, or place the system in TEACH mode before shutdown.

E-STOP Servo Motors before Shutdown

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

After servo motors are shutdown, turning the Main Circuit Breaker OFF removes all control power to the DX100 controller.

Main Power Switch (OFF)

Mode Selection Switch

Three mode selections determine control of the robot system. There are Teach, Play, and Remote (Play).

Teach Mode: Status Icon

In TEACH mode, the user has control for jogging the robot(s) and External Axis motors. Programming, editing, commenting, and other menu choices become available based on the level of Security.

Play Mode: Status Icon

In PLAY mode, the START button becomes functional and the DX100 has control of job execution. Special playback UTILITY menu choices become available.

Changing modes from PLAY to TEACH during playback will cause the program to cease execution.

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:

1. Release all E-Stops.
2. Press the SERVO ON READY button. The image will blink signifying "ready" status.
3. Hold the SERVO ENABLE switch to its middle ON position.

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

Area Key

The Status Display line is not an accessible area.

The AREA key can be used in place of touching the screen to access the following areas for editing and selection purposes: Main Menu, Menu Area, General Display Area, the Infinite List menu if active, as well as the Human Interface Area when the edit buffer line 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 line the cursor is on in the JOB CONTENT.

The START button remains lit the entire time the controller is running the program. Also, the START button's indicator light will be ON whenever the TEACH mode INTERLOCK + TEST START method of operation is performed.

Hold Button: Status Icon

Pressing the HOLD button stops execution of a job in the PLAY mode, the START light turns off. The HOLD button light does not latch ON while the system is in the pendant HOLD. Servo power remains ON, and the brakes are not applied.

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

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

It must be released before restart is possible.

A HOLD (or E-stop) activated by Mock Sensor 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 sends power to the servo motors and releases all brakes. The light will indicate the status. Playback of any job (with or without motion steps) is not possible unless servo power is applied.

In TEACH mode, pressing the SERVO ON/READY button will only cause the indicator to blink that it is "ready" for the servos to be engaged. Servo power can be applied by activating the Servo Enable Switch located on the back left side of the pendant.

All Alarms, Errors, and E-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 in any screen. When the cursor is on an item that has a black background with yellow characters, such as the job list names, the highlighted selection cannot be accessed by touching the screen, the SELECT key must be used.

Holding Up or Down will activate rapid scroll in top/bottom of a job or list.

Use SHIFT + Up/Down for previous/next section of screen view within a job content 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 Universal Outputs ON/OFF, and SHIFT + SELECT can be used to highlight a section of a job content for COPY, CUT, CHANGE SPEED, and PRE.

Cancel

Also, CANCEL key is used to close all ERROR Messages.

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

Dx100 Advanced Programming Training Manual

Gianna Cioni,Andrzej Salwicki

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