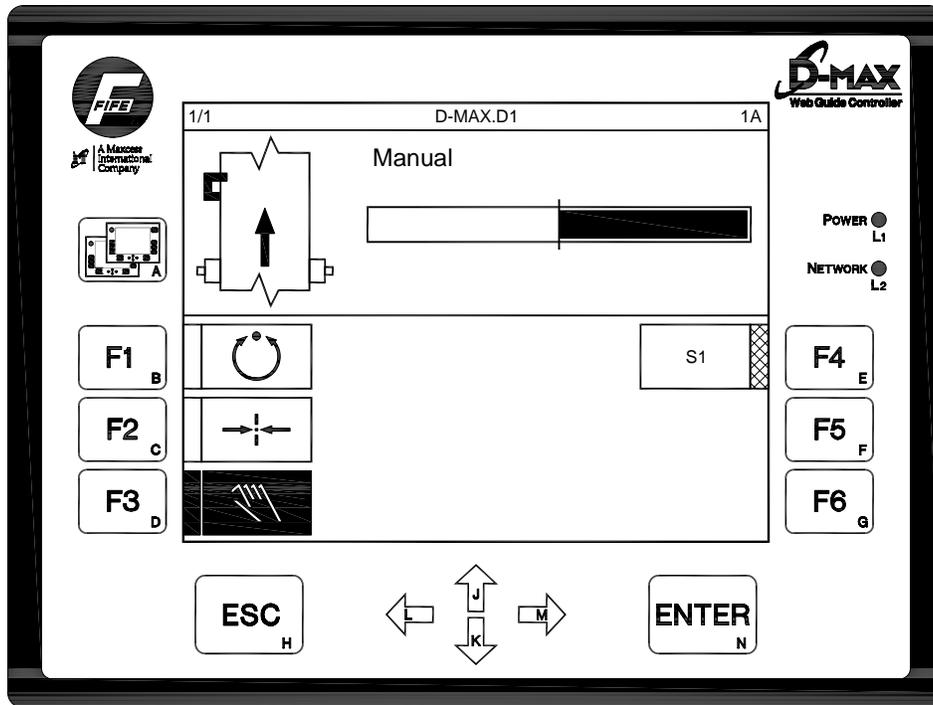
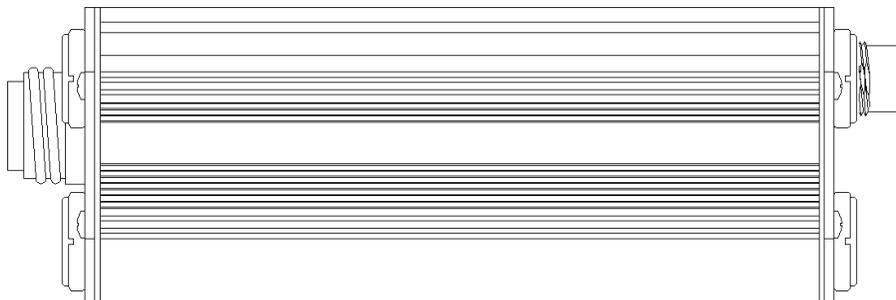


# D-MAX WEB GUIDE CONTROLLER WITH OPERATOR INTERFACE PANEL QUICK START SETUP MANUAL



**D-MAX OPERATOR INTERFACE**  
(Application Home Screen Is Shown)



**D-MAX CONTROLLER**

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This Instruction Manual has been compiled with the greatest possible care and attention; however, the possibility of error cannot be completely excluded. Fife Corporation accepts no legal liability for incorrect information given and the consequences arising there from.

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This Instruction Manual is intended to be used in addition to the *D-MAX Web Guide Controller With Operator Interface User Manual, Figure Sheet 1-886*. This Instruction Manual contains instructions for setup and operation of the Internal Oscillator Feature of the D-MAX Controller.

The instructions contained in this Instruction Manual are written to support operation of the D-MAX Web Guide Controller, using a D-MAX Operator Interface Panel. If another means is used to control the D-MAX Web Guide Controller, instructions for that interface should be used and then these instructions should be used for reference only.

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## FEATURES

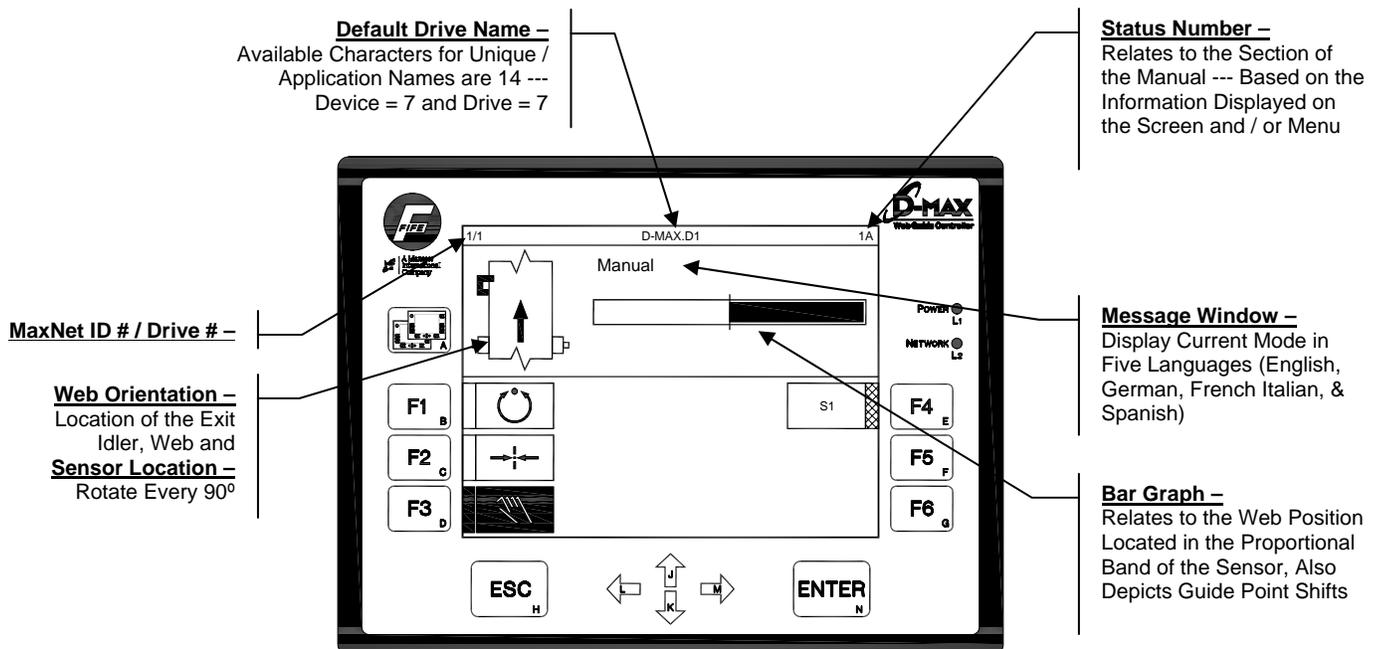
### D-MAX GENERAL INFORMATION

The instructions contained in this Quick Start Setup Manual are written to support operation of the *D-MAX Web Guide Controller, using a D-MAX Operator Interface Panel User Manual*. For further assistance contact Fife Technical Support at 1-333-639-FIFE (1-800-333-3433).

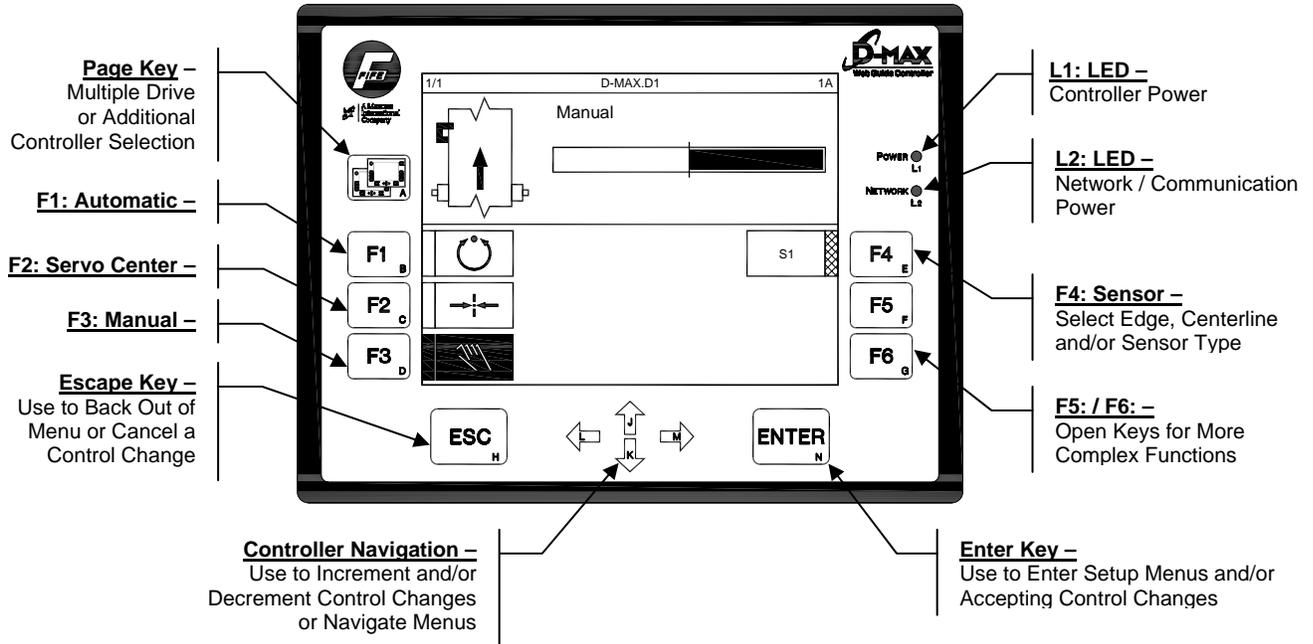
### DISPLAY DEFINITIONS

The D-MAX Operator Interface display is divided into 3 areas of information that are listed below. Refer to *Figures 1 and 2* for complete display definitions.

1. The top row shows the device and drive number, name, and status.
2. The upper portion below the top row is the Information Area. It shows the web and sensors connected to the current drive or device, the operation and sensor modes, and current status.
3. The lower portion of the display is the Input Area. While in the Home Screen it shows the Function Keys and their selection status. At the Menu level it shows the selections that are currently available in the current menu level.



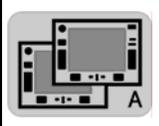
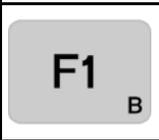
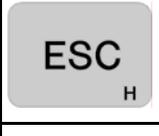
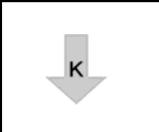
**Figure 1.**  
**D-MAX OPERATOR INTERFACE DISPLAY**



**Figure 2.**  
**D-MAX OPERATOR INTERFACE DISPLAY**

## KEYPAD FUNCTIONS

The table below gives the name along with an operational function description of each keypad displayed on the D-MAX Operator Interface.

	<p><b>A. Screen Select Key.</b> This key is used to scroll through the devices that exist on the network. If the key is held for at least two seconds, a list of the devices is displayed.</p>
	<p><b>B. F1 Key.</b> In the Home Screen, this key initiates the Automatic mode. Correction is applied to the web in response to the selected sensor(s) output. In other levels, this key is defined by the graphics located next to it in the display.</p>
	<p><b>C. F2 Key.</b> In the Home Screen, this key initiates the Servo Center mode. The actuator is centered in its travel in response to the Servo Center sensor output. In other levels, this key is defined by the graphics located next to it in the display.</p>
	<p><b>D. F3 Key.</b> In the Home Screen, this key initiates the Manual mode. No correction is applied to the actuator. In other levels, this key is defined by the graphics located next to it in the display.</p>
	<p><b>E. F4 Key.</b> In the Home Screen, this key is used to select the desired job. The operation mode must be Manual or Servo Center to enable this key. In other levels, this key is defined by the graphics located next to it in the display.</p>
	<p><b>F. F5 Key.</b> This key is not used in the Home Screen. In other levels, this key is defined by the graphics located next to it in the display.</p>
	<p><b>G. F6 Key.</b> This key is not used in the Home Screen. In other levels, this key is defined by the graphics located next to it in the display.</p>
	<p><b>H. ESC Key.</b> This key is not used in the Home Screen. In the Menu Levels, this key is used to abort a change or to exit menu levels. Holding the key, or repeated key presses will return to the Home Screen.</p>
	<p><b>J. Up Arrow Key.</b> This key is not used in the Home Screen. In the Menu Levels, this key is used to scroll up the list of menu entries and also to edit values.</p>
	<p><b>K. Down Arrow Key.</b> This key is not used in the Home Screen. In the Menu Levels, this key is used to scroll down the list of menu entries and also to edit values.</p>



	<p><b><u>L</u>. Left Arrow Key.</b>          In the Home Screen, this key is used to move the actuator or shift the Guidepoint. In Manual mode, the actuator jogs in the negative direction. In Automatic mode, the Guidepoint is shifted in the negative direction. (These are configurable).          In the Menu Levels, this key is used to enable/disable entries in the displayed list and also to move the cursor when editing values.</p>
	<p><b><u>M</u>. Right Arrow Key.</b>          In the Home Screen, this key is used to move the actuator or shift the Guidepoint. In Manual mode, the actuator jogs in the positive direction. In Automatic mode, the Guidepoint is shifted in the positive direction. (These are configurable).          In the Menu Levels, this key is used to enable/disable entries in the displayed list and also to move the cursor when editing values.</p>
	<p><b><u>N</u>. Enter Key.</b>          In the Home Screen, this key is used to enter the Menus for configuring or monitoring the guiding system.          In the Menu Levels, this key is used to enter a menu or initiate the action that is selected in the displayed list. It is also used to save a change.</p>



## OPERATION

### SYSTEM SETUP

1. Connect the system according to the System Block Diagram and *Figure Sheet 1-885*, which is supplied with each system. Refer to *Figures 3, 4 and 5* for basic systems cable connections.
2. Apply the proper power to the system. Refer to System Block Diagram for the DC voltage required by the system.
3. If the controller has two drives, select the desired drive using the Screen Select (A) key on the Operator Interface. Each drive must be configured and calibrated independently.
4. Verify the system is in Manual Mode by pressing the F3 key on the Operator Interface.
5. Determine the proper Job Selection required for the application. Refer to *Table 1* for correct job selection. Press the F4 key to select the desired job.

**NOTE: If Servo Center option is not available go to step #8\***

6. Switch system to Servo Center Mode by pressing the F2 button. If the guide moves to the center of its stroke press F3 to return system to Manual Mode and go to step #9.
7. If the guide moves to one side, then change the Servo Center Polarity
  - a. Press the F3 key to change the system operating mode back to Manual Mode.
  - b. Press the ENTER key to enter the menus.
  - c. Select "SC Settings" then press ENTER
  - d. Select "SC Polarity" then press ENTER
  - e. The current polarity is listed. Change the polarity and press enter.
  - f. Repeat step #6
8. \*Move the actuator to the center of its stroke by pressing the left and right arrows.
9. Thread the web/strip through the system and pull proper tension, if possible.
10. Perform "Sensor Calibration" on the sensor(s) that will provide position feedback for this web/strip. If two sensors are being used in a center-guiding application they must be calibrated independently.
  - a. Press the ENTER key to enter the menus.
  - b. Select "Hardware IOs" then press ENTER.
  - c. Select "Sensor Setup" then press ENTER.
  - d. Select the proper sensor then press ENTER.
  - e. Select "Calibration" then press ENTER.
  - f. Follow the instructions displayed on the LCD Display.  
*Be sure to use the web to be guided to calibrate sensors.*

**NOTE: If Manual Configuration is desired go to Step #14\***

### AUTO SETUP CONFIGURATION

11. Place the web/strip in the proper position and then position the sensor(s) to align the center of the sensor(s) bandwidth with the web/strip to be guided.
12. Perform "Auto Setup" to automatically determine the proper polarity and gain for the system.
  - a. Press the ENTER key to enter the menus.
  - b. Select "Job Settings" then press ENTER.
  - c. Select "Auto Setup" then press ENTER.
  - d. When finished, press ENTER to save.
13. Switch the system to Automatic Mode by pressing the F1 key on the Operator Interface. This initiates the guiding function of the system.



**OPTIONAL MANUAL CONFIGURATION**

14. \*To manually change the Polarity.
  - a. Press the ENTER key to enter the menus.
  - b. Select "Job Settings" then press ENTER.
  - c. Select "Polarity" then press ENTER.
  - d. The current polarity is listed. Change the polarity and press enter.
15. To manually change the Gain.
  - a. Press the ENTER key to enter the menus.
  - b. Select "Job Settings" then press ENTER.
  - c. Select "Gain" then press ENTER.
  - d. The current gain is listed. Change the gain and press enter.
16. To manually change the Guidepoint.
  - a. When in Automatic mode, Press the ARROW keys to shift the web/strip.
  - b. Press both ARROW keys simultaneously to reset Guidepoint to zero.
  - c. When in Manual mode, Press the ENTER key to enter the menus.
  - d. Select "Job Settings" then press ENTER.
  - e. Select "Guidepoint" then press ENTER.
  - f. The current gain is listed. Change the gain and press enter.

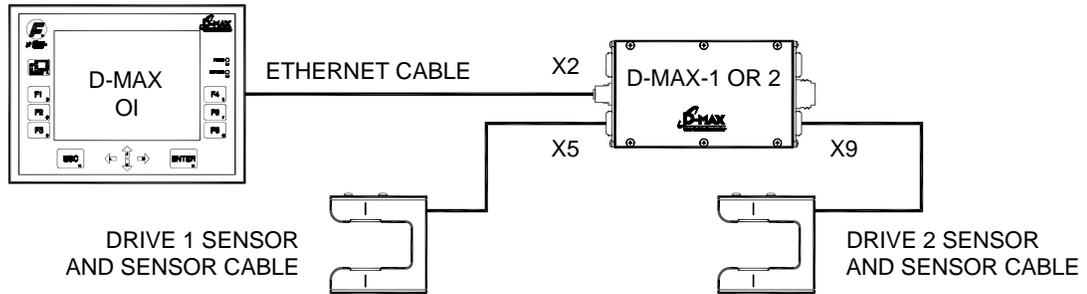
**JOB SELECTION**

Use the table below to select the correct job.

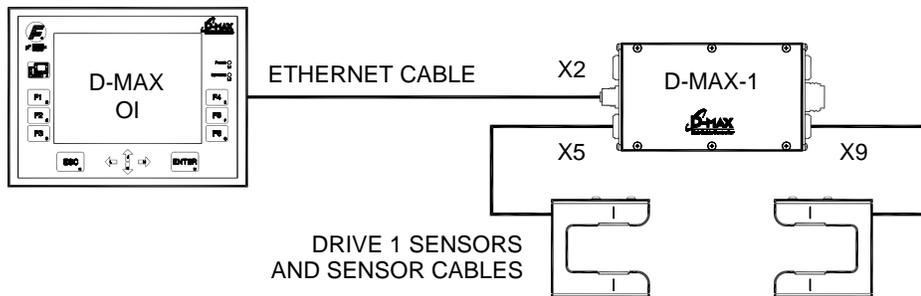
STATUS NUMBER ENTRY	JOB SELECTION	INPUT PORT CONNECTOR	TYPE OF GUIDING
A	S1	Sensor1, X5/1	Single Edge
B	S2	Sensor1, X5/2	Single Edge
C	S3	Sensor2, X9/1	Single Edge
D	S4	Sensor2, X9/2	Single Edge
E	S1-S2	Sensor1, X5/1&2	Center Guiding or Chasing
F	S3-S4	Sensor2, X9/1&2	Center Guiding or Chasing
G	S1-S3	Sensor1, X5/1 & Sensor2, X9/1	Center Guiding or Chasing
H	S2-S4	Sensor1, X5/2 & Sensor2, X9/2	Center Guiding or Chasing
J	 X5	Sensor1, X5/2	Center of Line
K	 X9	Sensor2, X9/2	Center of Line
L	 X5	Sensor1, X5/1	Edge of Line
M	 X9	Sensor2, X9/1	Edge of Line

**Table 1.  
JOB SELECTION**

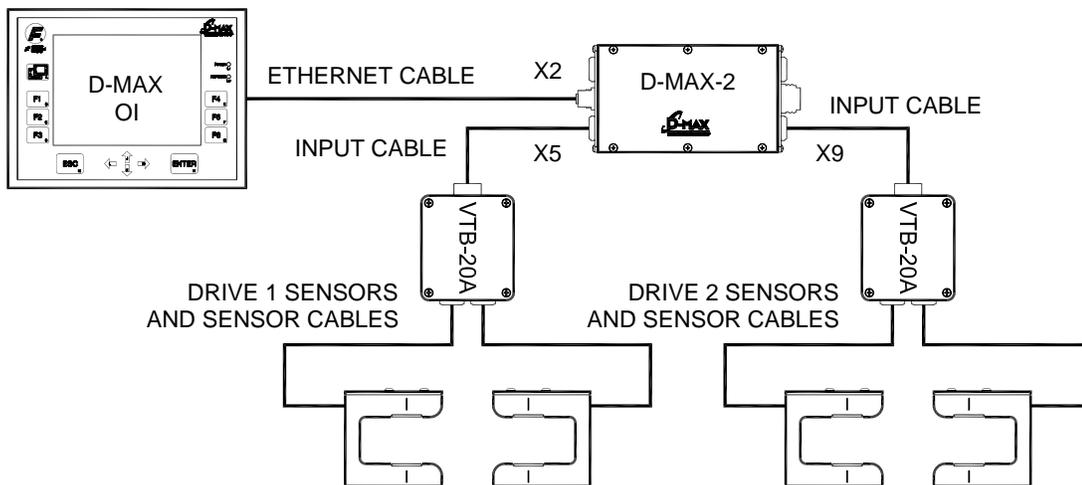
**BASIC SYSTEMS AND CABLE CONNECTION DIAGRAMS**



**Figure 3.**  
**EDGE GUIDING 1 OR 2 DRIVES**



**Figure 4.**  
**CENTER GUIDING 1 DRIVE**



**Figure 5.**  
**CENTER GUIDING 2 DRIVES**



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TENSION CONTROL



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