

COMMUNICATION PROCEDURES BETWEEN AN EZ-CAM II AND A BOSS 8, 9 OR 10 CONTROL

There are two serial line interfaces in the CNC, Ports A and B. Port A is used to communicate with the control memory through the system EDITOR. Port B is used for uploading and downloading part programs to the control memory using Bridgeport Machine's EZ-LINK protocol.

Preparation

Certain preliminary steps need to be taken before attempting to communicate. They are as follows:

1. Make certain you have the proper cables. Use the standard EZ-CAM II serial port cable (Bridgeport Code No. 3-193-7878) and one of the following cables:

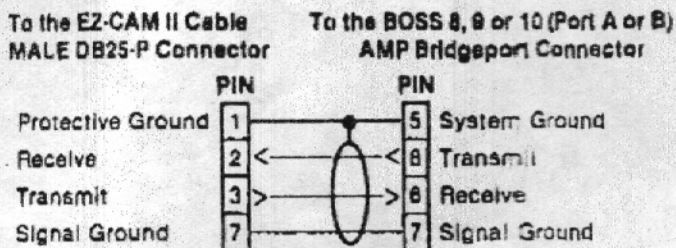
Code No. 11682006 (6' RS-232)
Code No. 31937128 (25' RS-232)
Code No. 31937129 (50' RS-232)

2. Set the baud rate on the BOSS 8, 9 or 10 as follows:
 - a. Press the OPTIONS key several times until the machine's baud rates are displayed.
 - b. Select the required port by pressing the ENTER key to toggle between Port A and Port B.
 - c. Although editing through Port A permits a range of baud rates, key in the value 4800 and then press the ENTER or EXECUTE key.

NOTE: 4800 is the only operating baud rate for the EZ-LINK utility with Port B.

3. In any communication scheme make certain the text file is in the proper format and has all the necessary characters.

The cable schematic is as follows:



EDITING THROUGH THE SYSTEM EDITOR (PORT A)

The following procedure describes how to use an EZ-CAM II connected to Port A, as an editing device, to edit part programs in the control memory, through the system EDITOR.

Communication

1. On the EZ-CAM II:

- a. In the main menu, select "5 > UTILITIES".
- b. Select "2 > PROGRAM" and enter "EZCOM", and press the RETURN key.
- c. Select "3 > EXECUTE".
- d. Select "3 > Comm Params" and set the parameters as follows:

Communications Parameters	
1 > Param File	NONE
2 > List Param Files	
3 > Baud Rate	(Set compatible with BOSS 8, 9 or 10)
4 > Parity	NONE
5 > Data Bits	8
6 > Stop Bits	1
7 > Protocol	NONE
8 > LF after CR	YES
9 > Cntrl Chars	INVISIBLE

- e. After the parameters have been set, press the INS key.

- f. Select "1 > Terminal".

2. On the BOSS 8, 9 or 10:

- a. Select the EDIT mode by pressing the LOAD/CLEAR/EDIT key.
- b. Press the EXECUTE key.

This completes the procedure to establish communication between an EZ-CAM II and the system EDITOR of a BOSS 8, 9 or 10 control. Refer to the machine's operating manual for a listing of the available editing commands, their meanings and syntax (formats).

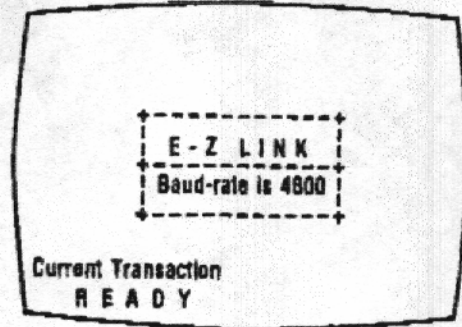
DOWNLOADING AND UPLOADING (PORT B) AND DNC LINK (PORT B) — BOSS 8

The following procedure describes how to use an EZ-CAM II connected to Port B, as a mass storage device to download or upload programs of length less than the available storage. Port B is also used to transfer part programs that exceed the memory capacity of the particular control to be used. This method is called DNC LINK.

Communication

1. On the EZ-CAM II:

- In the main menu, select "5> UTILITIES".
- Select "2> PROGRAM" and enter "EZLINK", the desired utility program and press the RETURN key.
- Select "3> EXECUTE". The EZ-CAM II CRT will soon display:



Download to or Upload from

2. The BOSS 8:

- Press the LOAD/CLEAR/EDIT key until the following is displayed:

```
LOAD
0 PTR  1 DNC  2 REM
```

- Key in 2 and then press the EXECUTE key. This will prompt:

```
LOAD REM:
0 FROM REM  1 TO REM
```

- Key in 0 or 1, according to whether you are downloading or uploading respectively, and then press the EXECUTE key again. The LCD will now prompt:

```
LOAD REM: _ _
```

3. At this point, enter the file name in one of the following two ways:

- If the file has a numeric name of five digits or less, you may key in the file name through the front panel of the control and press the EXECUTE key.
- If the file has an alphanumeric or numeric name, press the EXECUTE key, without keying in the file name at the control. This will cause the EZ-CAM II CRT to prompt you for the file name. Enter the file name through the keyboard, then enter a decimal point and the letter "D" at the end of the file name for proper execution, and press the RETURN key.

NOTE: If more than one part is to be made, the operator must follow the steps listed above. The EZ-CAM II, however, will remain in the EZLINK mode and does not need to be reset for each part.

ONLY IN EZ LINK MODE

THIS PROCEDURE IS SET UP FOR EZCAM COMMUNICATIONS, IF YOU ARE USING ANY OTHER PERIPHERAL (COMPUTER), YOU MUST ENTER A MINUS (-) SIGN, AND THEN TYPE IN NAME OF PROGRAM AT COMPUTER.