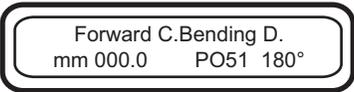


# Instructions for Models MB-42, SB-48, TB-60

 **WARNING! Thoroughly read operators manual before attempting to operate machine**  
 (Machine must be connected to correct power source before switching power on! **DO NOT USE** extension cord.)

Rotate power switch to the **(ON)** position.  
 Display will read: "Forward C.Bending D."  
 Ercolina machines have (30) thirty bending programs.  
 Each program can store (9) nine individual bends.

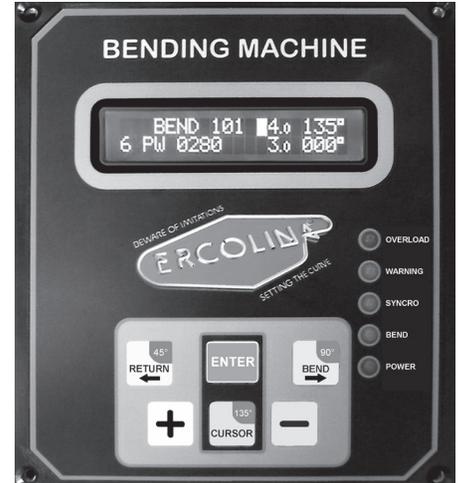


## - Control panel keys and their functions (see FIG. A) -

- (RETURN)** ..... Returns tool shaft to "0" position
- (BEND)** ..... Moves tool shaft to desired bend angle
- (CURSOR)**..... Use for editing program, bend angle and springback value any time during bend cycle
- Plus (+)**..... Increase value when editing
- Minus (-)**..... Decrease value when editing

## - Important combination touch key functions -

- Reset C axis to "0" ..... **(BEND)** or **(RETURN)**  
 (While turning main power on)
- Enter "Language selection mode" ..... **(ENTER)**, **Plus (+)** and **Minus (-)**  
 (While turning main power on)



(FIG. A)

## Entering a Bend Angle

### - Data entry mode -

- Depress **(CURSOR)** key
- Display reads "Data entry yes or no"
- Depress **Plus (+)** = yes



### - Select program number -

- Depress **Plus (+)** until desired program is reached 0-30

### - Reset selected program to default -

- Depress **Minus (-)** hold for three seconds
- Display now reads "Program No.1 12 .000" or similar



### - Enter first bend angle -

**NOTE:** While in programming mode, hot keys quickly move closer to desired angle **(BEND)** = 90°, **(RETURN)** = 45° and **(CURSOR)** = 135°

- Depress **Plus (+)** or **Minus (-)** to enter exact bend angle
- Depress **(ENTER)** to store bend angle

Display will prompt you to enter another bend angle within the same program. If additional bends are required within the same program, input them in the same manner. If no additional bends are required depress **(ENTER)**.

Display indicates the program number you edited. (Example P.1 = Program 1)

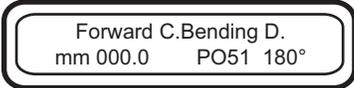
### - Exit data entry mode -

- Depress **(ENTER)**
- Display reads "End of Date Entry"



### - Return to working display -

- Depress **(ENTER)**
- Display reads "Forward C.Bending D." and shows currently selected program



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# Setting Springback Value

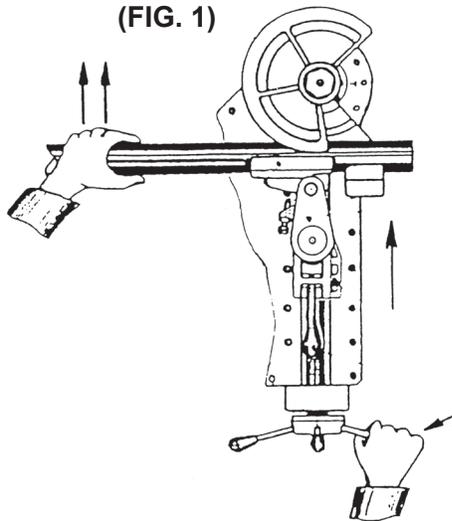
## - Before the bend -

Mount center former and counterbend die  
Lubricate face of counterbend die



Use ONLY Ercolina  
Spray Grease Part# 810 to  
Lubricate Counterbending Die

Place material into former with weld seam up, if applicable  
Move counterbend die vise forward until die contacts material (see FIG. 1)  
Depress **(ENTER)** to zero display of the counterbend die position

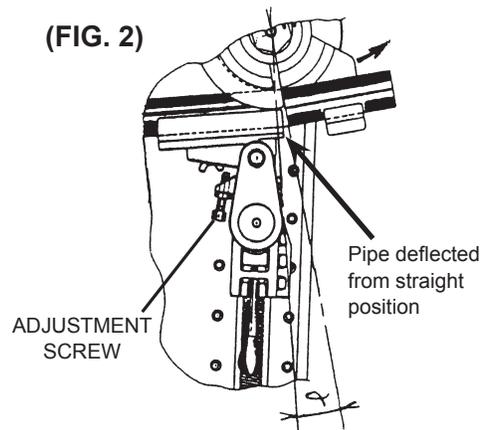


## - Determine initial springback -

Initiate bend cycle by depressing **(BEND)** key or foot pedal  
Stop bend cycle when material begins to deflect (see FIG. 2)  
Observe degree reading on control panel display  
Depress **(ENTER)** to insert springback value into program  
Springback must be set for each angle within program  
**(Note:** Springback value can be edited as necessary)

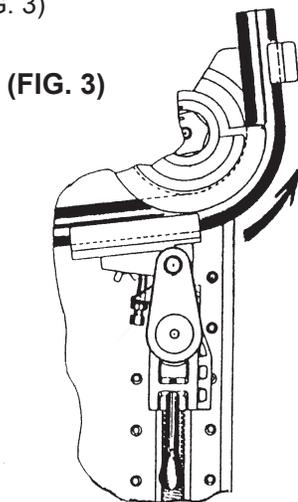
## - Adjust counterbend die support screw -

Using Allen wrench, rotate screw to contact back of vise (see FIG. 2)  
Secure screw with locking jam nut  
Properly adjusted screw improves quality of bend



## - Finish bend -

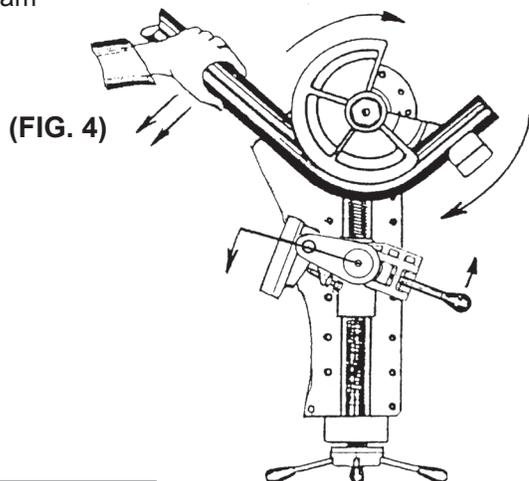
Depress and hold **(BEND)** key or foot pedal to complete bend cycle (see FIG. 3)



## - Return center former to home position -

Depress and hold **(RETURN)** key or foot pedal until bender returns to "0" home position (see FIG. 4)

**Note:** Display will automatically advance to next bend within program



## To edit bend angle or springback value after programming

Initiate bend cycle and stop

Depress **(CURSOR)** key once - cursor will flash in the springback field; **(+)** and **(-)** keys can then be used to edit settings

Depress **(CURSOR)** key twice - cursor will flash in the bend angle field; **(+)** and **(-)** keys can then be used to edit settings

Depress **(ENTER)** key to store changes

Entering a Bend Angle