



MODEL H3183/H3184 COMPACT BENDER INSTRUCTION SHEET

Introduction

This compact bender is perfect for bending up to $\frac{5}{8}$ " round or square bar, or $\frac{5}{16}$ " x 2" flat stock.

Inventory (Figure 2)

Major Components	Qty
A. Base (H3183)	1
A. Base (H3184)	1
B. Yoke Arm.....	1
C. Handle	1
D. Bending Bracket.....	1

Minor Components and Hardware	Qty
• Lock Washers 10mm	3
• Flat Washers 10mm	4
• Hex Nuts M10-1.5	4
• Hex Bolt M10-1.5 x 30	1
• Hex Bolt M10-1.5 x 120	1
• Flat Head Pin 40 x 6	1
• Flat Head Screws M10-1.5 x 35.....	2
• Spring Cotter Pin.....	1
• Clevis Pin	1
• Adjustable Stop 10 x 40	1
• Large Hitch Pin 100 x 14.....	1
• Small Hitch Pin 75 x 14.....	1
• Large Spacer 70 x 25 x 10.....	1
• Small Spacers 8 x 16 x 11	3
• Stop Pin 11 x 9.....	1
• Stop Block Support Pin 16 x 10	1
• Stop Block $1\frac{7}{8}$ " x $1\frac{1}{2}$ " x $1\frac{1}{2}$ "	1
• Angle Bending Attachment.....	1
• Steel Dies 1", $1\frac{1}{4}$ ", $1\frac{3}{4}$ ", 2", $2\frac{1}{2}$ ", 3"	1 ea
• Steel Dies $1\frac{1}{2}$ ".....	2

If you need help with your new compact bender, call our Tech Support at: (570) 546-9663.



! WARNING

Wear safety glasses when using the compact bender. Serious injury may occur if this warning is ignored!

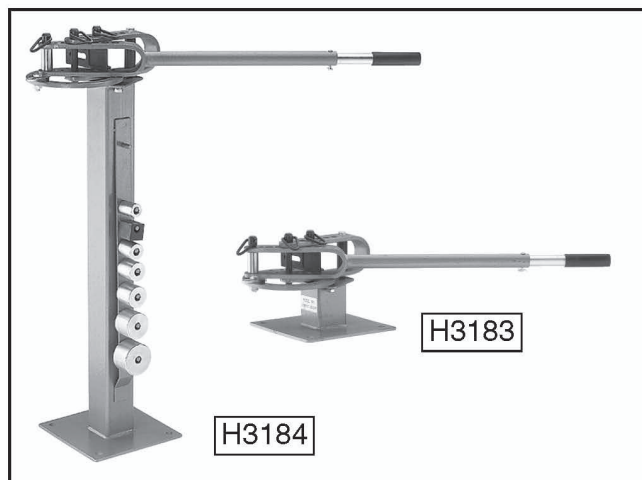


Figure 1. Models H3183 and H3184 Compact Benders.

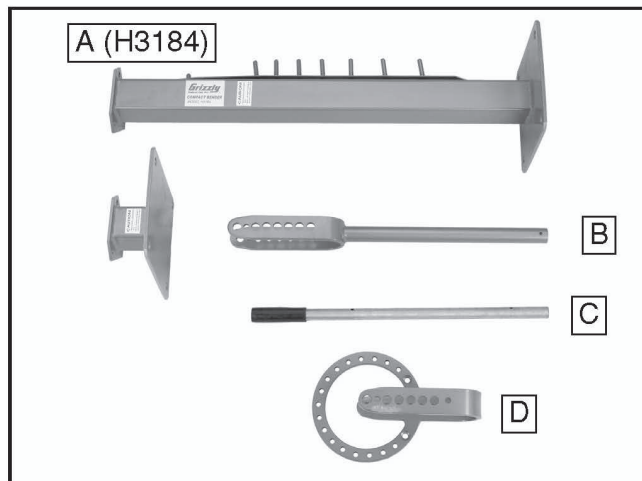


Figure 2. Model H3183/H3184 Inventory.

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Assembly

Use the breakdown on **Page 4** to help assemble your compact bender.

To assemble your compact bender:

1. Mount the bending bracket to the base using the components shown in **Figure 3**.

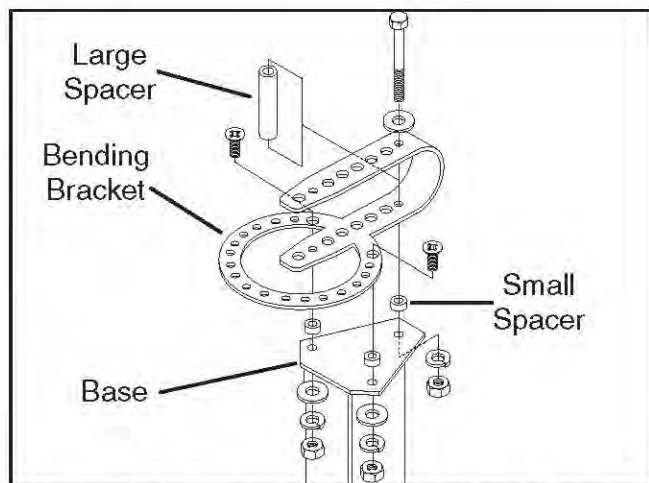


Figure 3. Mounting bending bracket to base.

2. Connect the yoke arm and handle together with the clevis pin and the spring cotter pin.
3. Mount the handle assembly onto the bending bracket with a long hitch pin (part #9, **Page 4**).
4. Bolt the compact bender to a benchtop (for Model H3183) or floor (for Model H3184).

Basic Bending Operations

To perform basic radius bending (Figure 4):

1. Select the die that most closely matches the radius you wish to bend, and install it on the center pin using a long hitch pin.
2. Mount the block support and stop block onto the bending bracket as shown in **Figure 4**. Make sure that the block support is positioned as close to the stop block hitch pin as possible.
4. Select the size of die that will secure the workpiece without the workpiece slipping, and install it on the yoke arm with the short hitch pin. ensure the die is as close to the workpiece as possible.

! CAUTION

DO NOT attempt to use the compact bender without it being fastened to a stable surface. Failure to comply can result in personal injury and equipment damage!

5. To limit the bending range, install the fixed stop in the appropriate hole in the outer ring of the bending bracket, shown in **Figure 5**.
6. With stable footing, bend the workpiece by pulling the handle towards you, as shown in **Figure 5**.

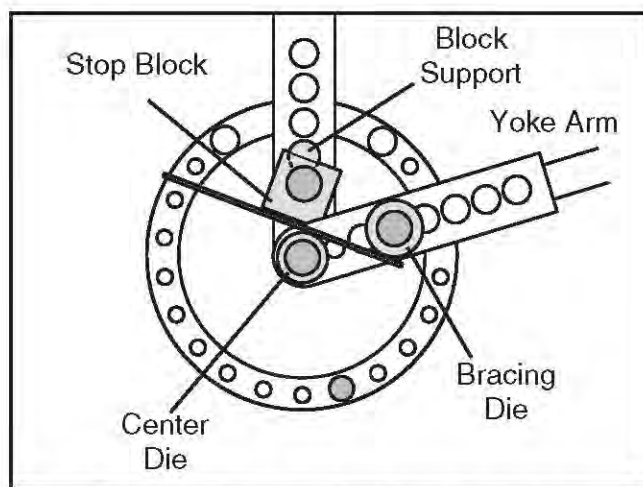


Figure 4. Basic radius bending setup.

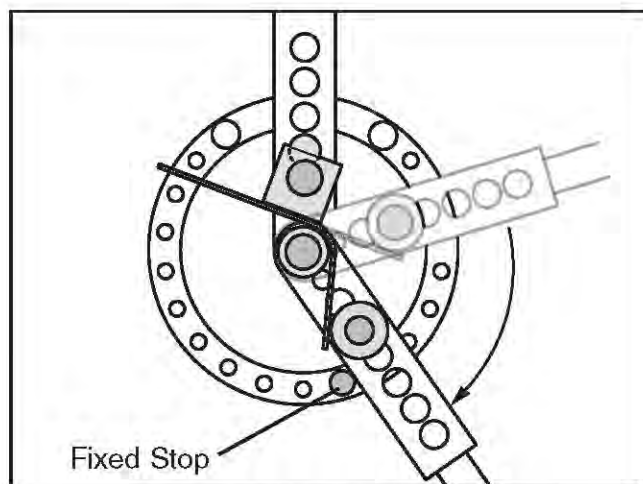


Figure 5. Basic radius bend.

To perform basic angle bending:

1. Mount the block support and angle bending attachment onto the bending bracket as shown in **Figure 6**.
2. Make sure that the block support is positioned as close to the angle bracket hitch pin as possible.
3. Based on the position of the angle bending attachment and workpiece thickness, select two dies that will brace the workpiece properly against the angle bending attachment, and install them as shown in **Figure 6**. For most bending tasks, the 1½" dies are appropriate.

Note: The center pin and die must be mounted at least through the third handle hole, as shown in **Figure 6**, for any bending procedure to be successful. If the center pin is placed in the first or second holes, you will not be able to get enough leverage to properly bend the workpiece.

4. To limit the bending range, install the fixed stop in the appropriate hole in the outer ring of the bending bracket, as shown in **Figure 7**.
5. With a stable footing, bend the workpiece by pulling the handle towards you, as shown in **Figure 7**.

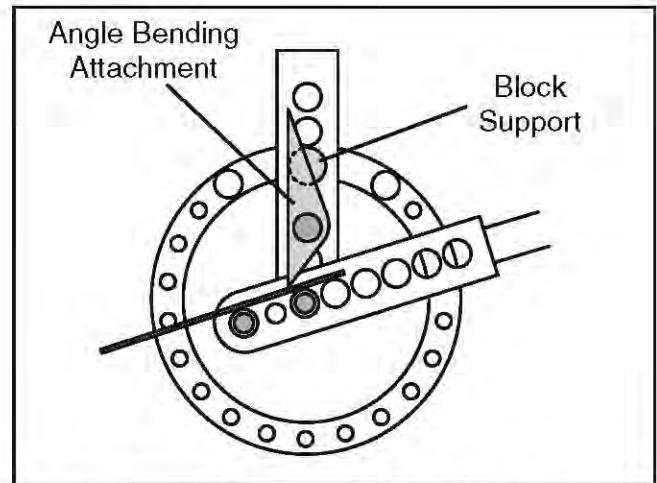


Figure 6. Basic angle bending setup.

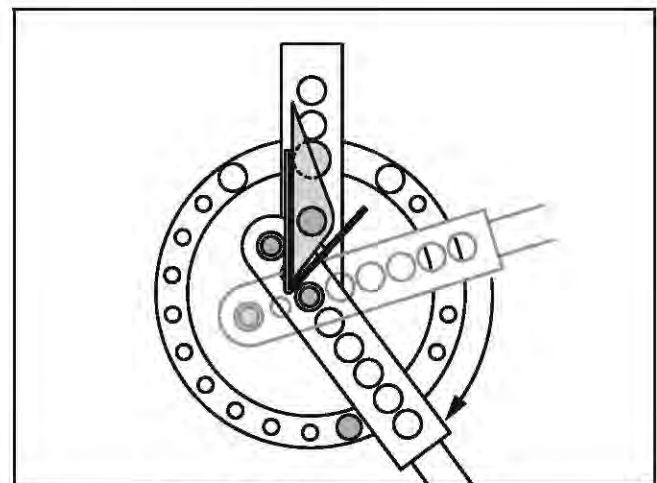
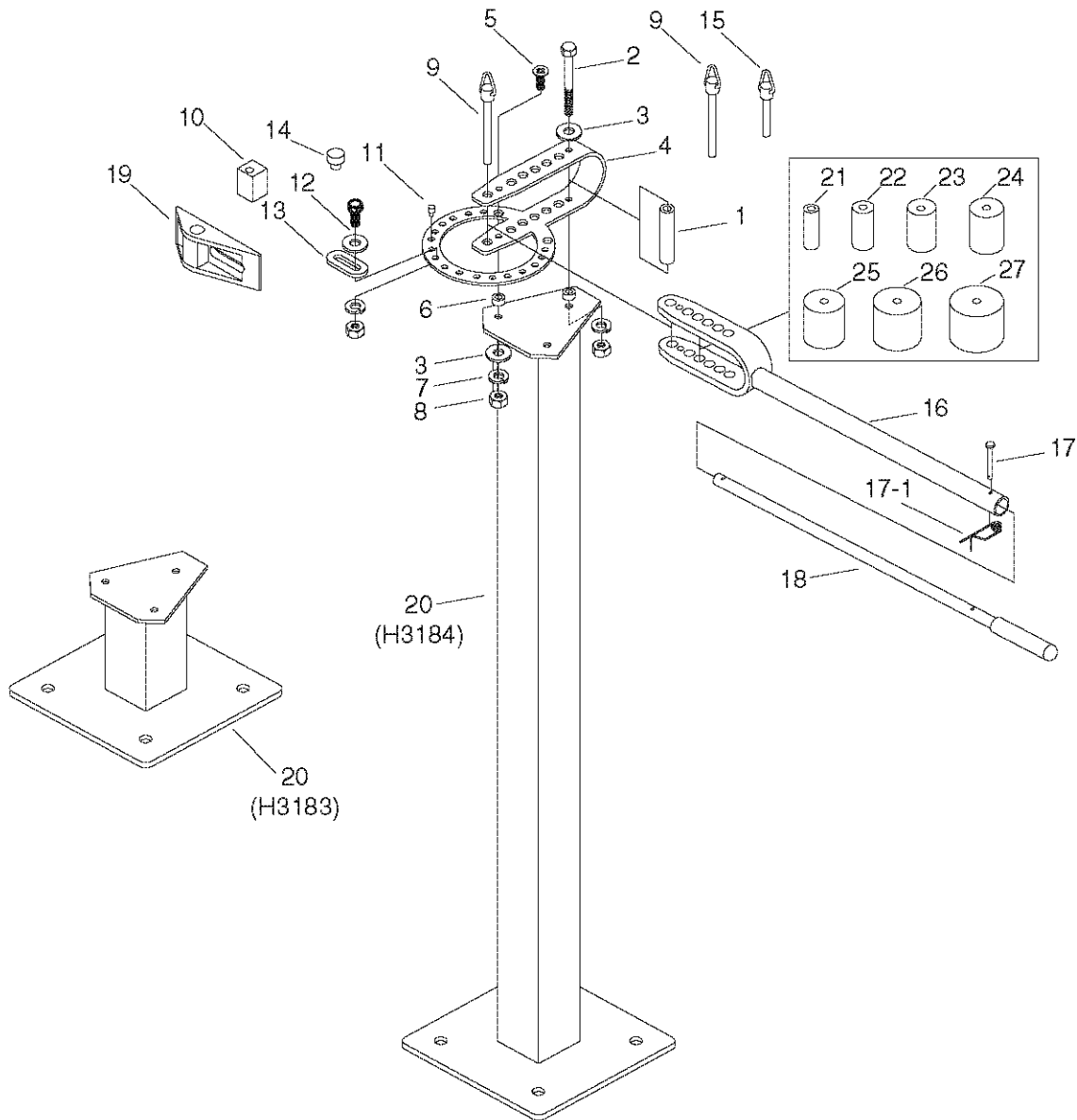


Figure 7. Basic angle bend.

H3183/H3184 Breakdown and Parts



REF	PART #	DESCRIPTION
1	PH3183001	LARGE SPACER 70 X 25 X 10
2	PB111M	HEX BOLT M10-1.5 X 120
3	PW04M	FLAT WASHER 10MM
4	PH3183004	BENDING BRACKET
5	PFH24M	FLAT HD SCR M10-1.5 X 35
6	PH3183006	SMALL SPACER 8 X 16 X 11
7	PLW06M	LOCK WASHER 10MM
8	PN02M	HEX NUT M10-1.5
9	PH3183009	LARGE HITCH PIN 100 X 14
10	PH3183010	STOP BLOCK
11	PH3183011	FIXED STOP
12	PB01M	HEX BOLT M10-1.5 X 30
13	PH3183013	ADJUSTABLE STOP
14	PH3183014	STOP BLOCK SUPPORT PIN
15	PH3183015	SMALL HITCH PIN 75 X 14

REF	PART #	DESCRIPTION
16	PH3183016	YOKE ARM
17	PH3183017	CLEVIS PIN
17-1	PH3183017-1	SPRING COTTER PIN
18	PH3183018	HANDLE
19	PH3183019	ANGLE BENDING ATTACHMENT
20	PH3183020	BASE (H3183)
20	PH3184020	BASE (H3184)
21	PH3183021	DIE 1"
22	PH3183022	DIE 1-1/4"
23	PH3183023	DIE 1-1/2"
24	PH3183024	DIE 1-3/4"
25	PH3183025	DIE 2"
26	PH3183026	DIE 2-1/2"
27	PH3183027	DIE 3"