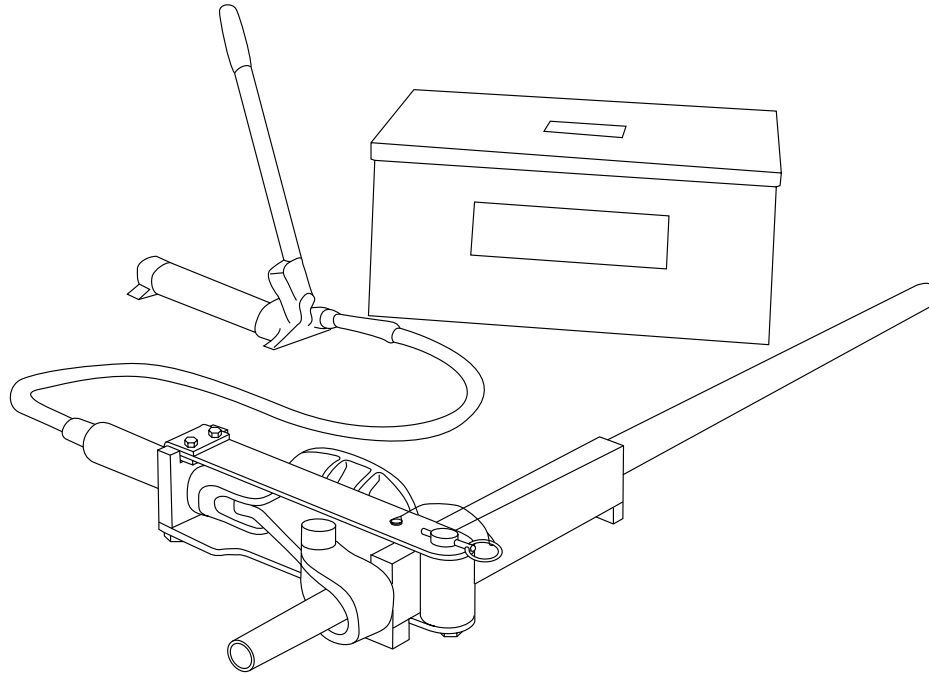


OPERATING, SAFETY AND SERVICE INSTRUCTION MANUAL



882 and 882 CB HYDRAULIC BENDERS

**For 1-1/4", 1-1/2" and 2" Conduit
for Serial # FT 16000 and up**



Read and understand this material before operating or servicing this bender. Failure to understand how to safely operate the bender could result in an accident causing serious injury or death.

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SAFETY ALERT SYMBOL

The symbol above is used to call your attention to instructions concerning your personal safety. Watch for this symbol. It points out important safety precautions. It means **“ATTENTION! Become alert! Your personal safety is involved!”** Read the message that follows and be alert to the possibility of personal injury or death.

DANGER

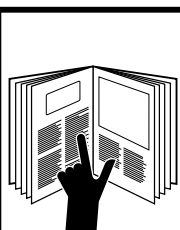
Immediate hazards which, if not avoided, **WILL** result in severe personal injury or death.

WARNING

Hazards or unsafe practices which, if not avoided, **COULD** result in severe personal injury or death.

CAUTION

Hazards or unsafe practices which, if not avoided, **COULD** result in minor personal injury or property damage.




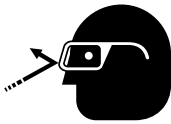
WARNING

A person who has not read and does not understand all operating instructions is not qualified to operate this tool.

Failure to read and understand safety instructions may result in injury or death.

IMPORTANT SAFETY INSTRUCTIONS

	⚠ WARNING
	Pinch points. Keep hands away from bending shoe, follow bar, saddle, and conduit when bender is in use.

	⚠ WARNING
	<p>Wear eye protection when operating the bender.</p> <p>Failure to wear eye protection can result in serious eye injury from flying debris and hydraulic oil.</p>

⚠ WARNING
<ul style="list-style-type: none"> Do not stand in direct line with the hydraulic ram. A component failure could propel parts with sufficient force to cause severe injury or death. Do not operate while wearing loose clothing. Loose clothing could get caught in moving parts. <p>Failure to observe these warnings can result in severe injury or death.</p>

⚠ CAUTION
<ul style="list-style-type: none"> Conduit moves rapidly as it is bent. The path of the conduit must be clear of obstructions. Be sure clearance is adequate before starting the bend. Inspect the bender, pump, and hose before each use. Replace damaged, worn or missing parts with Greenlee replacement parts. A damaged or improperly assembled component could break and strike nearby personnel. Some of the bender parts and accessories are heavy and may require more than one person to lift and assemble. Improper lifting can result in back injury. <p>Failure to observe these precautions can result in injury or property damage.</p>

IMPORTANT
<p>Make sure all hose fittings are properly seated before starting the bend. Incomplete connections may not allow the ram to retract after the bend is complete.</p>

Description

The 882 Conduit Bender is intended to bend EMT (electrical metallic tubing). The 882 CB Conduit Bender is intended to bend EMT, IMC (intermediate metallic conduit) and GRC (galvanized rigid conduit) and Schedule 40 Pipe. Bending shoes are available to accommodate 1-1/4" through 2" conduit and pipe.

The bender is to be coupled to any Greenlee hydraulic pump capable of developing 10,000 psi. Suggested models include:

Hand Pump:	755
Electric Pump (120-volt)	960 SAPS 975
Electric Pump (220-volt)	976-22FS 976-22PS

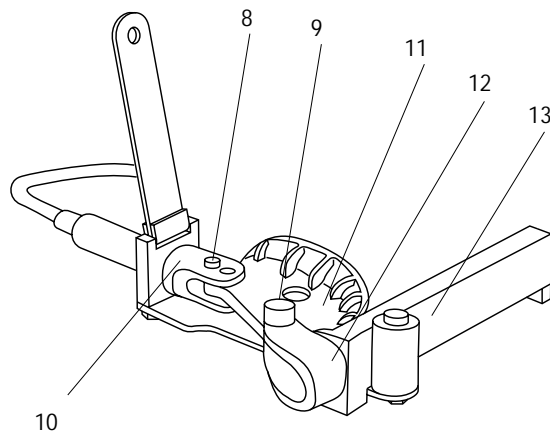
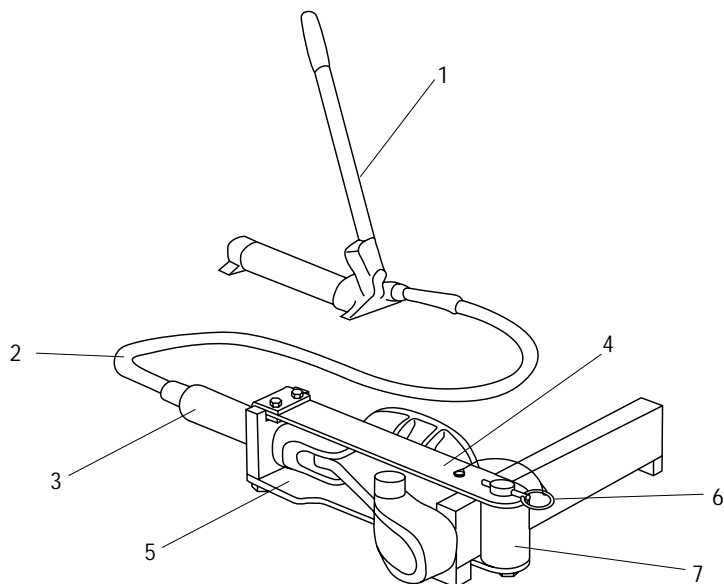
Purpose

This instruction manual is intended to familiarize operators and maintenance personnel with the safe operation and maintenance procedures for the 882 Conduit Bender.

SAVE THESE INSTRUCTIONS

Additional copies of this manual are available upon request at no charge.

Identification



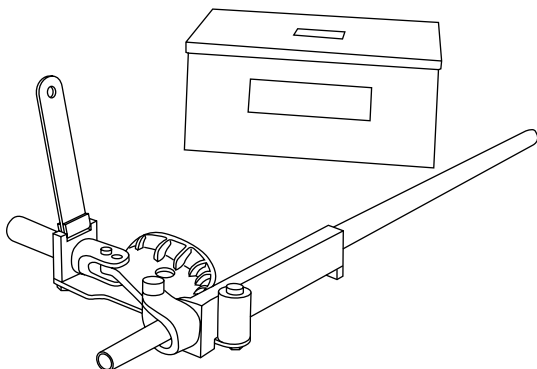
- 1. Hydraulic Pump
- 2. Hose Unit, 3/8" x 6 ft, High-Pressure
- 3. 12-Ton Hydraulic Ram
- 4. Upper Connecting Plate
- 5. Lower Connecting Plate
- 6. Hitch Pin
- 7. Roller Unit

- 8. Yoke Pin
- 9. Saddle Pin
- 10. Yoke
- 11. Shoe
- 12. Saddle
- 13. Follow Bar

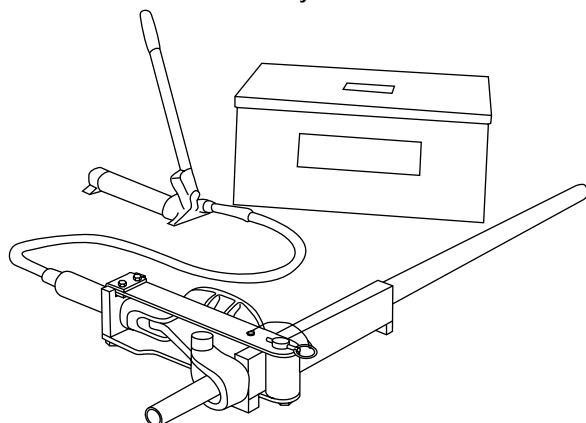
Set-Up

Note: Shoes, follow bars, and saddles marked "EMT" are for EMT conduit only. Parts marked "Rigid/IMC" are for rigid and IMC conduit, and Schedule 40 pipe.

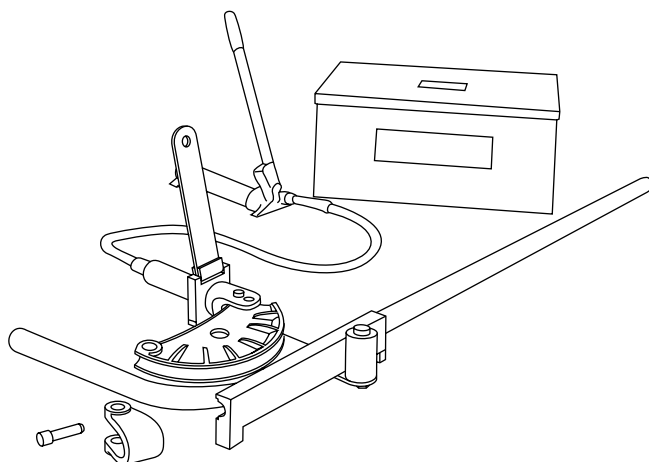
Loading Conduit



Ready to Bend



Completed Bend



1. Mark the conduit. See the instructions under Laying Out Bends in this manual.
2. Select the bending shoe, follow bar, and saddle that correspond to the size and type of conduit.
3. Remove the locking hitch pin from the roller unit. Lift the hinged upper connecting plate. Remove the yoke pin from the yoke.
4. Position the shoe, lettered side up, so that the 1" diameter hole is in the yoke slot. Align the 1" shoe hole with the yoke hole that is:
 - farthest from the ram when using the 1-1/4" and 1-1/2" shoe.
 - closest to the ram when using the 2" shoe.
5. Insert the yoke pin through the yoke and the shoe.
6. Place the follow bar, with legs down, over the lower connecting plate.
7. Place the conduit into the follow bar. Slip the saddle over the conduit and pin the saddle to the shoe with the saddle pin.
8. Lower the upper connecting plate over the roller pin and replace the locking hitch pin.
9. Align the bending mark on the conduit with the outside edge of the saddle. Be sure that the pins for the yoke and saddle are fully engaged.
10. Connect the high-pressure hydraulic hose to the ram and to the pump.

Note: Clean the quick-change couplers before making connections. Hand-tighten the couplers completely. Do not use tools.

IMPORTANT

Follow the instructions and safety information supplied with your hydraulic pump.

Operating Instructions

Bending

1. Loosen the ram travel scale nut; set the ram travel scale, which is read at the edge of the block, to zero. Tighten the nut. (See the illustration under Ram Travel Table for Common Bends.)
2. Use the hydraulic pump and advance the ram until the shoe contacts the conduit and the conduit is seated in the follow bar. Check the placement of the conduit to be sure that the bending mark is aligned with the outside edge of the saddle.

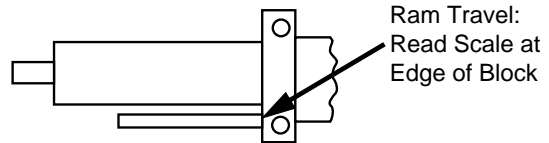
Note: For specific pump operating instructions, see the instruction manual supplied with the hydraulic pump.

3. Consult the Ram Travel Table to find the amount of ram travel necessary to accomplish the bend.
4. Use the hydraulic pump to advance the ram by the necessary amount of ram travel.
5. Release the hydraulic pressure at the pump and move the conduit to the next bending position.

Note: If making an offset bend, rotate the conduit 180° before making the second bend. If making a three-bend saddle, rotate the conduit 180° before making the second and third bends; the second bend angle is twice the number of degrees and requires more ram travel than the first and third bends. If making a 4-bend saddle, rotate the conduit before making the second and fourth bends.

6. Repeat steps 2 - 5 until the last bend is made.
7. Release the hydraulic pressure at the pump. Remove the locking hitch pin to release the upper connecting plate. Lift the plate clear of the shoe, follow bar, and saddle.
8. Remove the conduit from the bender.

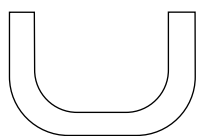
Ram Travel Table for Common Bends



Ram Travel (Approximate)			
Angle of Bend	For IMC/Rigid Conduit		
	1-1/4"	1-1/2"	2"
5°	2-1/8"	7/8"	13/16"
10°	2-3/8"	1-1/16"	1-1/16"
15°	2-5/8"	1-3/8"	1-7/16"
30°	3-5/16"	2-1/16"	2-1/2"
45°	4-1/8"	2-7/8"	3-9/16"
60°	4-15/16"	3-11/16"	4-5/8"
90°	6-1/4"	5-13/16"	6-11/16"
Angle of Bend	For EMT Conduit		
	1-1/4"	1-1/2"	2"
5°	2-1/16"	7/8"	1-3/8"
10°	2-1/4"	1-1/8"	1-5/8"
15°	2-7/16"	1-5/16"	1-7/8"
30°	3-1/8"	2-1/16"	2-5/8"
45°	3-7/8"	2-7/8"	3-3/8"
60°	4-5/8"	3-11/16"	4-3/16"
90°	6-3/16"	5-3/8"	5-1/2"

Note: Consult the table that corresponds to the type of conduit to be bent. Find the degree of bend in the leftmost column and find the size of conduit to the right. The number shown on the table is the amount of ram travel needed.

Glossary of Bending Terms with Illustrations



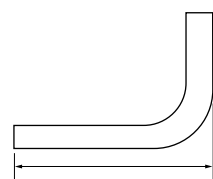
1. **amount of offset** — the distance that the conduit or pipe must be re-routed to avoid an obstruction; see *offset* in this glossary and *Offset Bending Instructions* in this manual

2. **back-to-back bend** — any U-shaped bend formed by two parallel 90-degree bends with a straight section of conduit or pipe between the bends

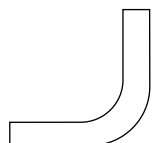
3. **center-to-center distance** — the distance between the successive bends that make up an offset or a three-bend saddle

4. **depth of offset** — same as *amount of offset*

5. **height of offset** — same as *amount of offset*

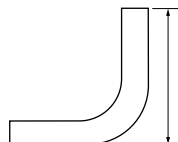


6. **leg length** — the distance from the end of a horizontal section of conduit or pipe to the bend; measured from the end to the center line, inside edge, or outside edge of the conduit or pipe



7. **90° bend** — any bend that changes the direction of the conduit or pipe by 90 degrees

8. **O.D.** — the size of any piece of conduit or pipe as measured by its outside diameter



9. **offset bend** — two bends with the same degree of bend; used to avoid an obstruction blocking the run of the conduit or pipe

10. **ram travel** — the distance that the ram of hydraulic bender moves to accomplish a particular bend; inches of ram travel are proportionate to degrees of bend

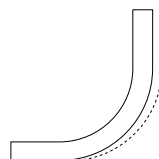
11. **rise** — the distance from the end of a vertical section of conduit or pipe to the bend; measured from the end to the center line, inside edge, or outside edge of the conduit or pipe

12. **shrink** — the amount of conduit "lost" when laying out an offset bend working toward an obstruction; see the detailed explanation under *Offset Bending* in this manual

13. **springback** — the amount, measured in degrees, that a conduit or pipe tends to straighten after being bent

14. **stub** — same as *rise*

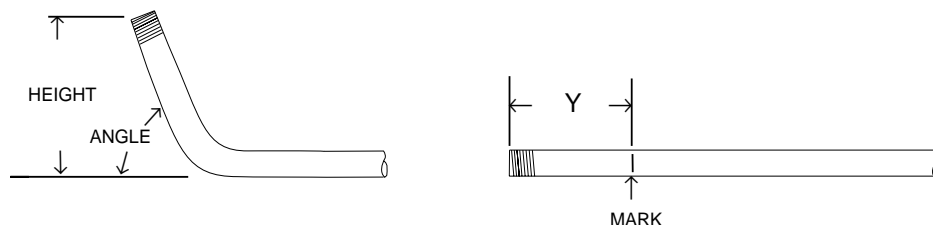
15. **stub-up** — same as *rise*



Laying Out Bends

The following drawings and bending charts are intended to provide the information necessary to accomplish the most common types of bends. The Special Bending Information Chart contains information for the most commonly needed bending dimensions.

Stubs



1. Select the size and type of conduit to be bent. Determine the height of stub and the angle of bend.
2. Find the chart that corresponds to the type and size of conduit selected in Step 1.
3. Under the column labeled ANGLE, find the angle of bend.
4. Find the row labeled Y. In the row at the top of the page, find the height (H) of the stub. The number shown at this intersection is the dimension Y. Place the bending mark Y inches from the end of the conduit.
5. See the bending instructions.

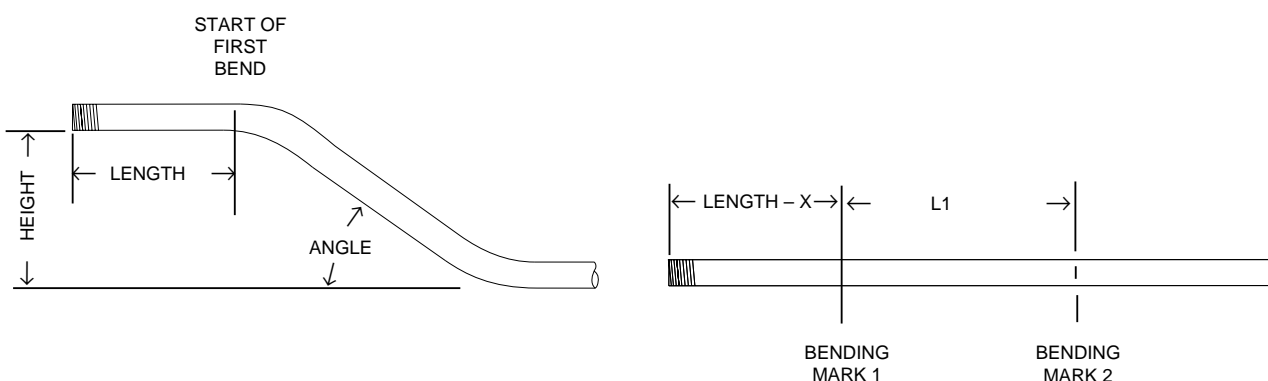
Offset

An offset is used to route the conduit around an obstruction. To make an offset, two equal bends are required. The distance between the two bends is the center-to-center distance. This is represented by L1 in the bending tables.

When working past an obstruction, it is necessary to determine the location of the first bend. The center-to-center distance is then used to find the location of the second bend.

When working toward an obstruction, it is necessary to determine the location of the second bend. The center-to-center distance is then used to find the location of the first bend.

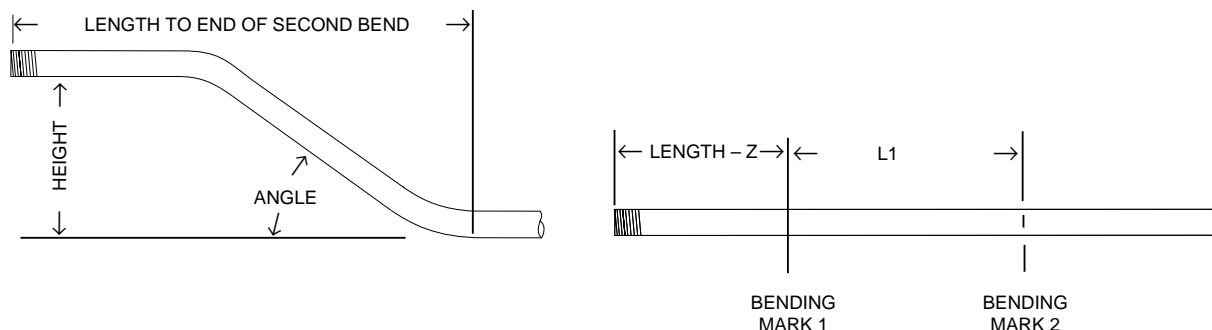
Offsets: Working Past an Obstruction



1. Select the size and type of conduit to be bent. Measure the height of the obstruction and the distance labeled LENGTH. Select the angle to be used.
2. Find the chart that corresponds to the type and size of conduit selected in Step 1.
3. To the right of the size and type of conduit, find the dimension labeled X. Subtract X from LENGTH. Place the first bending mark (Bending Mark 1) this distance from the end of the conduit.
4. Under the column labeled ANGLE, find the angle of bend. Find the row labeled L1. In the row at the top of the page, find the height (H) of the offset. The number at this intersection is the dimension L1. Place the second bending mark (Bending Mark 2) L1 inches from the first bending mark.
5. See the bending instructions.

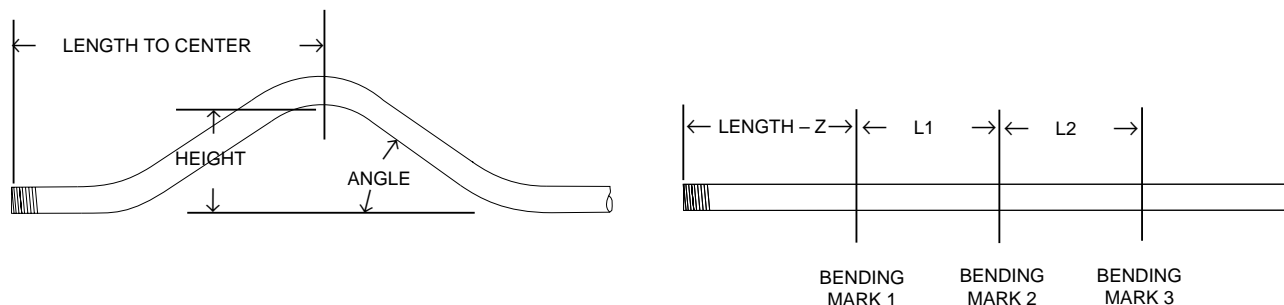
Laying Out Bends (cont'd)

Offsets: Working Toward an Obstruction



1. Select the size and type of conduit to be bent. Measure the height of the obstruction and the distance labeled **LENGTH TO END OF SECOND BEND**. Select the angle to be used.
2. Find the chart that corresponds to the type and size of conduit selected in Step 1.
3. Under the column labeled **ANGLE**, find the angle of bend. Find the row labeled **Z**. In the row at the top of the page, find the height (**H**) of the offset. The number shown at this intersection is the dimension **Z**. Subtract **Z** from **LENGTH TO THE END OF SECOND BEND**. Place the first bending mark this distance from the end of the conduit.
4. In the same column, find the row labeled **L1**. Place the second bending mark **L1** inches from the first bending mark.
5. See the bending instructions.

Three-Bend Saddle



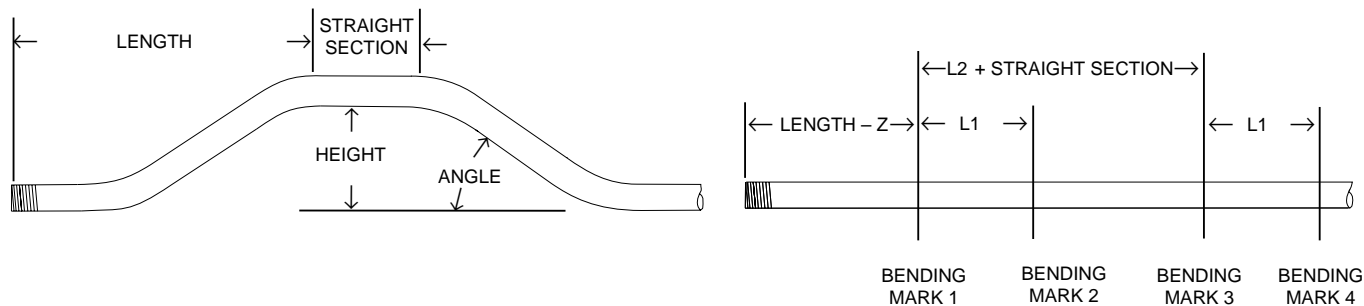
1. Select the size and type of conduit to be bent. Measure the height of the obstruction and the distance from the end of the conduit to the center (LENGTH TO CENTER) of the bend. Select the angle to be used.

Note: The second bend angle will be twice the number of degrees as the first and third bends.

2. Find the chart that corresponds to the type and size of conduit selected in Step 1.
3. Under the column labeled ANGLE, find the angle of bend needed. Find the row labeled Z. In the row at the top of the page, find the height (H) of the offset. The number shown at this intersection is Z. Subtract Z from the LENGTH TO CENTER. Place the first bending mark this distance from the end of the conduit.
4. In the same column, find the row labeled L1. Place the second bending mark L1 inches from the first bending mark.
5. In the same column, find the row labeled L2. Place the third bending mark L2 inches from the second bending mark.
6. See the bending instructions.

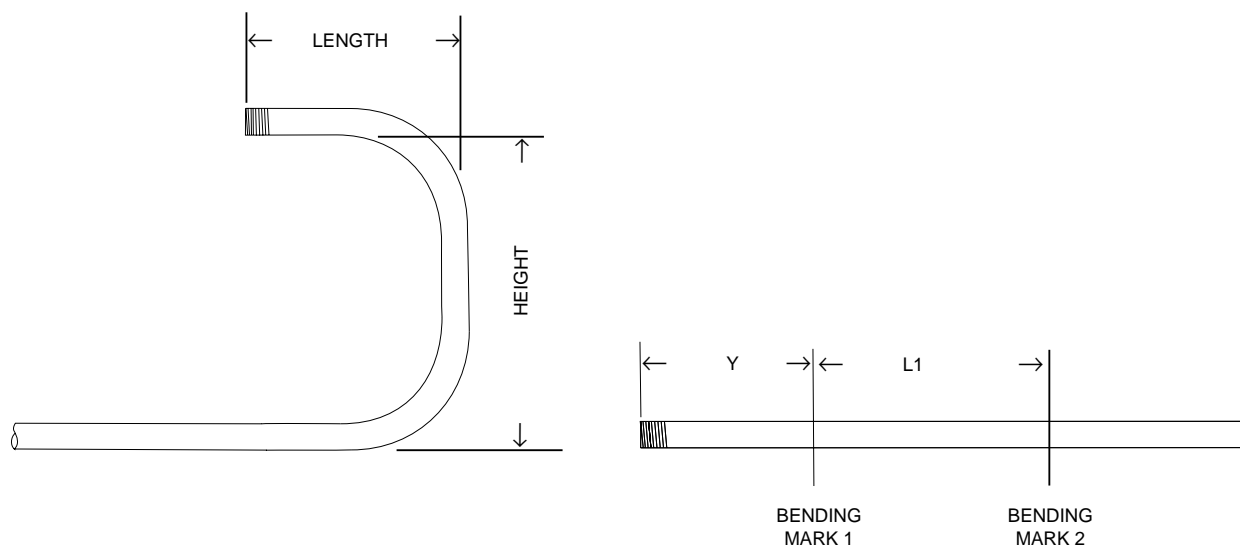
Laying Out Bends (cont'd)

Four-Bend Saddle



1. Select the size and type of conduit to be bent. Measure the height of the obstruction, the distance labeled LENGTH, and the distance labeled STRAIGHT SECTION. Select the angle to be used.
2. Find the chart that corresponds to the type and size of conduit selected in Step 1.
3. Under the column labeled ANGLE, find the angle of bend needed. Find the row labeled Z. In the row at the top of the page, find the height (H) of the offset. The number shown at this intersection is Z. Subtract Z from the LENGTH. Place the first bending mark this distance from the end of the conduit.
4. In the same column, find the row labeled L1. Place the second bending mark L1 inches from the first bending mark.
5. In the same column, find the row labeled L2. Add L2 to the STRAIGHT SECTION. Place the third bending mark this distance from the first bending mark.
6. Make the final bending mark L1 inches from the third bending mark.
7. See the bending instructions.

U-Bends



1. Select the size and type of conduit to be bent. Determine the LENGTH and the HEIGHT.
2. Find the chart that corresponds to the type and size of conduit selected in Step 1.
3. Under the column labeled ANGLE, find 90°.
4. Find the row labeled Y. In the row at the top of the page, find the height (H) that corresponds to the LENGTH. The number shown at this intersection is the dimension Y. Place the bending mark Y inches from the end of the conduit.
5. Find the row labeled L1, and go to the right to find the height (H) that corresponds to the HEIGHT. The number shown at this intersection is the dimension L1. Place the second bending mark L1 inches from the first mark.
6. See the bending instructions.



Special Bending Information Chart

		DIM	ANGLE	HEIGHT (H)									
				2"	4"	6"	8"	10"	12"	15"	18"	24"	36"
1-1/4 EMT		Dia. = 1.51		Radius = 7.43		X = 3.42							
	Y	15.00		0.41	8.14	15.87	23.59	31.32	39.05	50.64	62.23	85.41	131.78
	L1	15.00		7.72	15.44	23.17	30.90	38.63	46.35	57.94	69.54	92.72	139.08
	L2	15.00		9.66	17.39	25.12	32.84	40.57	48.30	59.89	71.48	94.66	141.03
	Z	15.00		12.84	20.30	27.77	35.23	42.70	50.16	61.36	72.55	94.95	139.73
MINIMUM H=1.39													
	Y	22.50			3.58	8.81	14.03	19.26	24.49	32.33	40.17	55.84	87.20
	L1	22.50			10.41	15.64	20.87	26.09	31.32	39.16	47.00	62.68	94.03
	L2	22.50			13.33	18.56	23.78	29.01	34.24	42.08	49.92	65.59	96.95
	Z	22.50			16.03	20.86	25.69	30.52	35.35	42.59	49.83	64.32	93.29
MINIMUM H=2.44													
	Y	30.00			1.08	5.08	9.08	13.08	17.08	23.08	29.08	41.08	65.08
	L1	30.00			7.91	11.91	15.91	19.91	23.91	29.91	35.91	47.91	71.91
	L2	30.00			11.80	15.80	19.80	23.80	27.80	33.80	39.80	51.80	75.80
	Z	30.00			14.33	17.79	21.26	24.72	28.19	33.38	38.58	48.97	69.76
MINIMUM H=3.70													
	Y	45.00				0.92	3.75	6.58	9.41	13.65	17.89	26.38	43.35
	L1	45.00					10.99	13.82	16.65	20.89	25.14	33.62	50.59
	L2	45.00					16.83	19.66	22.49	26.73	30.97	39.46	56.43
	Z	45.00					17.58	19.58	21.58	24.58	27.58	33.58	45.58
MINIMUM H=6.77													
	Y	60.00					0.66	2.97	5.27	8.74	12.20	19.13	32.99
	L1	60.00							13.06	16.52	19.99	26.91	40.77
	L2	60.00							20.84	24.30	27.77	34.69	48.55
	Z	60.00							18.93	20.66	22.39	25.86	32.78
MINIMUM H=10.39													
	Y	90.00							0.40	3.40	6.40	12.40	24.39
	L1	90.00										20.81	32.81
	L2	90.00										32.48	44.48
	Z	90.00										18.28	18.28
MINIMUM H=18.28													
1-1/2 EMT		Dia. = 1.74		Radius = 8.3		X = 3.82							
	Y	15.00			7.18	14.91	22.64	30.36	38.09	49.68	61.27	84.45	130.82
	L1	15.00		7.71	15.44	23.17	30.90	38.62	46.35	57.94	69.53	92.72	139.08
	L2	15.00		9.89	17.62	25.34	33.07	40.80	48.52	60.12	71.71	94.89	141.25
	Z	15.00		13.47	20.93	28.40	35.86	43.33	50.79	61.99	73.18	95.57	140.36
MINIMUM H=1.55													
	Y	22.50			2.71	7.93	13.16	18.39	23.61	31.45	39.29	54.97	86.33
	L1	22.50			10.41	15.64	20.86	26.09	31.31	39.15	46.99	62.67	94.03
	L2	22.50			13.67	18.90	24.12	29.35	34.57	42.41	50.25	65.93	97.29
	Z	22.50			16.78	21.61	26.44	31.26	36.09	43.34	50.58	65.06	94.03
MINIMUM H=2.73													
	Y	30.00			0.22	4.22	8.22	12.22	16.22	22.22	28.22	40.22	64.22
	L1	30.00				11.90	15.90	19.90	23.90	29.90	35.90	47.90	71.90
	L2	30.00				16.24	20.24	24.24	28.24	34.24	40.24	52.24	76.24
	Z	30.00				18.66	22.12	25.59	29.05	34.25	39.44	49.84	70.62
MINIMUM H=4.13													
	Y	45.00				0.00	2.83	5.65	8.48	12.72	16.97	25.45	42.42
	L1	45.00					10.96	13.78	16.61	20.86	25.10	33.58	50.55
	L2	45.00					17.48	20.30	23.13	27.37	31.62	40.10	57.07
	Z	45.00					18.70	20.70	22.70	25.70	28.70	34.70	46.70
MINIMUM H=7.56													
	Y	60.00						1.93	4.24	7.70	11.17	18.10	31.95
	L1	60.00							12.96	16.43	19.89	26.82	40.68
	L2	60.00							21.66	25.12	28.58	35.51	49.37
	Z	60.00							20.33	22.06	23.80	27.26	34.19
MINIMUM H=11.61													
	Y	90.00								2.01	5.01	11.01	23.01
	L1	90.00										20.44	32.44
	L2	90.00										33.48	45.48
	Z	90.00										20.42	20.42
MINIMUM H=20.42													

Special Bending Information Chart (cont'd)

		DIM	ANGLE	2"	4"	HEIGHT (H)			6"	8"	10"	12"	15"	18"	24"	36"
2 EMT		Dia. = 2.2		Radius = 9.59		X = 3.93										
	Y	15.00			6.01	13.74	21.47	29.19	36.92	48.51	60.10	83.29	129.65			
	L1	15.00	7.71	15.44	23.17	30.90	38.62	46.35	57.94	69.53	92.71	139.08				
	L2	15.00	10.22	17.95	25.68	33.41	41.13	48.86	60.45	72.04	95.23	141.59				
	Z	15.00	13.92	21.38	28.85	36.31	43.78	51.24	62.44	73.63	96.02	140.81				
MINIMUM H=1.67																
	Y	22.50			1.74	6.97	12.19	17.42	22.65	30.48	38.32	54.00	85.36			
	L1	22.50			10.40	15.63	20.86	26.08	31.31	39.15	46.99	62.67	94.02			
	L2	22.50			14.17	19.40	24.62	29.85	35.07	42.91	50.75	66.43	97.79			
	Z	22.50			17.40	22.23	27.06	31.89	36.72	43.96	51.20	65.69	94.66			
MINIMUM H=2.96																
	Y	30.00				3.30	7.30	11.30	15.30	21.30	27.30	39.30	63.30			
	L1	30.00				11.88	15.88	19.88	23.88	29.88	35.88	47.88	71.88			
	L2	30.00				16.90	20.90	24.90	28.90	34.90	40.90	52.90	76.90			
	Z	30.00				19.46	22.93	26.39	29.85	35.05	40.25	50.64	71.42			
MINIMUM H=4.53																
	Y	45.00					1.86	4.68	7.51	11.76	16.00	24.48	41.45			
	L1	45.00						13.73	16.56	20.80	25.04	33.53	50.50			
	L2	45.00						21.26	24.09	28.33	32.58	41.06	58.03			
	Z	45.00						21.87	23.87	26.87	29.87	35.87	47.87			
MINIMUM H=8.40																
	Y	60.00						0.81	3.12	6.58	10.05	16.98	30.83			
	L1	60.00								16.29	19.75	26.68	40.54			
	L2	60.00								26.33	29.80	36.72	50.58			
	Z	60.00								23.66	25.40	28.86	35.79			
MINIMUM H=12.99																
	Y	90.00								0.38	3.38	9.38	21.38			
	L1	90.00										19.88	31.88			
	L2	90.00										34.95	46.95			
	Z	90.00										23.11	23.11			
MINIMUM H= 23.11																
1-1/4 IMC/RIGID		Dia. = 1.66		Radius = 7.47		X = 3.95										
	Y	15.00			7.31	15.04	22.77	30.50	38.22	49.82	61.41	84.59	130.95			
	L1	15.00	7.72	15.44	23.17	30.90	38.63	46.35	57.94	69.54	92.72	139.08				
	L2	15.00	9.67	17.40	25.13	32.85	40.58	48.31	59.90	71.49	94.67	141.04				
	Z	15.00	13.38	20.85	28.31	35.77	43.24	50.70	61.90	73.09	95.49	140.27				
MINIMUM H=1.53																
	Y	22.50			2.85	8.07	13.30	18.53	23.75	31.59	39.43	55.11	86.47			
	L1	22.50			10.41	15.64	20.87	26.09	31.32	39.16	47.00	62.68	94.03			
	L2	22.50			13.35	18.57	23.80	29.03	34.25	42.09	49.93	65.61	96.97			
	Z	22.50			16.58	21.41	26.24	31.06	35.89	43.13	50.38	64.86	93.83			
MINIMUM H=2.65																
	Y	30.00			0.39	4.39	8.39	12.39	16.39	22.39	28.39	40.39	64.39			
	L1	30.00			7.91	11.91	15.91	19.91	23.91	29.91	35.91	47.91	71.91			
	L2	30.00			11.82	15.82	19.82	23.82	27.82	33.82	39.82	51.82	75.82			
	Z	30.00			14.88	18.35	21.81	25.27	28.74	33.93	39.13	49.52	70.31			
MINIMUM H=3.98																
	Y	45.00				0.27	3.10	5.92	8.75	13.00	17.24	25.72	42.69			
	L1	45.00					10.99	13.82	16.65	20.89	25.13	33.62	50.59			
	L2	45.00					16.86	19.69	22.52	26.76	31.00	39.49	56.46			
	Z	45.00					18.14	20.14	22.14	25.14	28.14	34.14	46.14			
MINIMUM H=7.17																
	Y	60.00					0.02	2.33	4.64	8.10	11.56	18.49	32.35			
	L1	60.00							13.05	16.52	19.98	26.91	40.77			
	L2	60.00							20.88	24.34	27.80	34.73	48.59			
	Z	60.00							19.50	21.24	22.97	26.43	33.36			
MINIMUM H=10.90																
	Y	90.00								2.75	5.75	11.75	23.75			
	L1	90.00										20.79	32.79			
	L2	90.00										32.53	44.53			
	Z	90.00										18.89	18.89			
MINIMUM H=18.89																

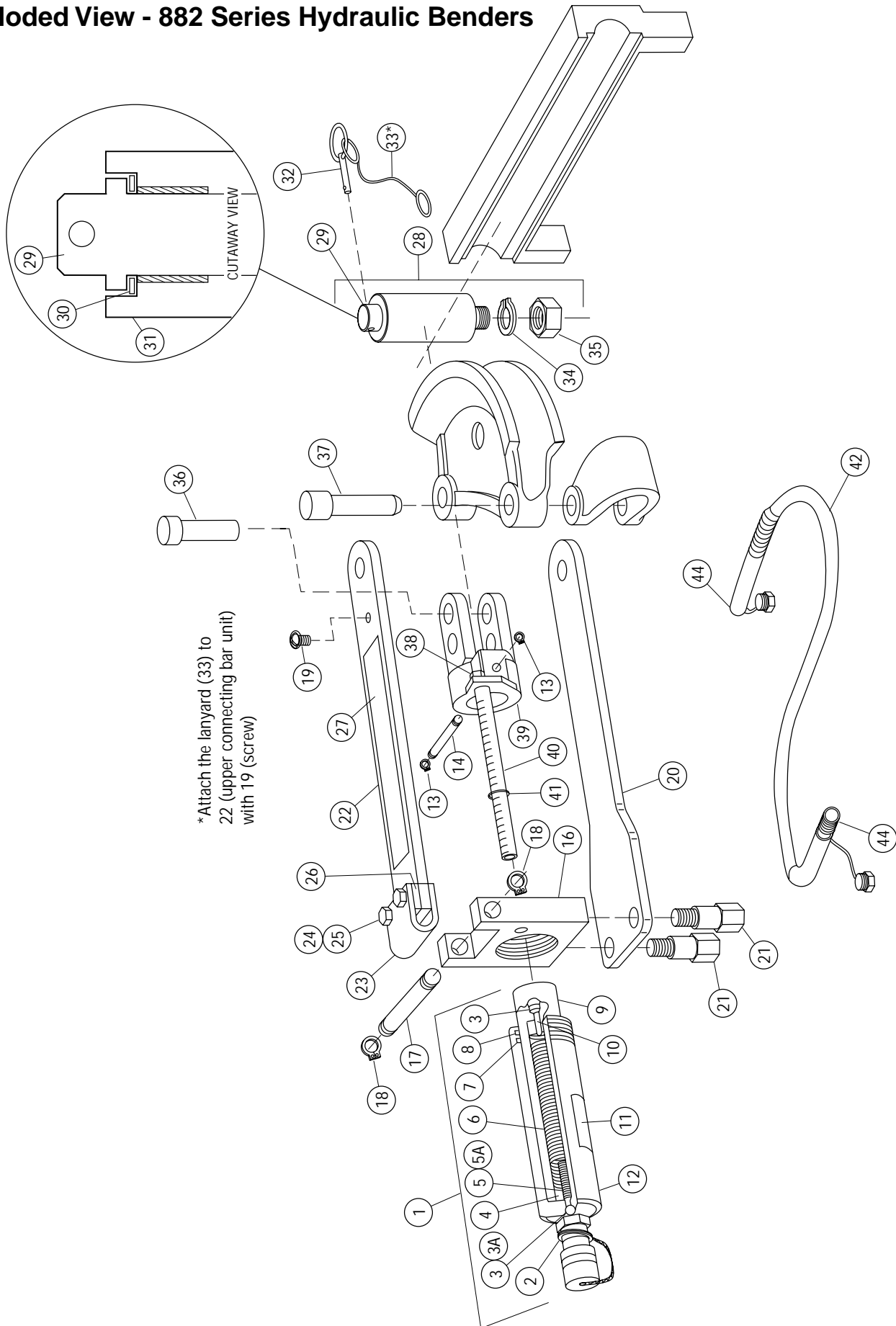


Special Bending Information Chart (cont'd)

		DIM	ANGLE	2"	4"	HEIGHT (H)							
						6"	8"	10"	12"	15"	18"	24"	36"
1-1/2 IMC/RIGID		Dia. = 1.9		Radius = 8.5		X = 4.05							
	Y	15.00			6.62	14.34	22.07	29.80	37.52	49.12	60.71	83.89	130.25
	L1	15.00	7.71	15.44	23.17	30.90	38.62	46.35	57.94	69.53	92.72	139.08	
	L2	15.00	9.94	17.67	25.39	33.12	40.85	48.58	60.17	71.76	94.94	141.31	
	Z	15.00	13.75	21.22	28.68	36.14	43.61	51.07	62.27	73.46	95.86	140.64	
MINIMUM H=1.63													
	Y	22.50		2.23	7.46	12.68	17.91	23.13	30.97	38.81	54.49	85.85	
	L1	22.50		10.41	15.64	20.86	26.09	31.31	39.15	46.99	62.67	94.03	
	L2	22.50		13.75	18.97	24.20	29.43	34.65	42.49	50.33	66.01	97.37	
	Z	22.50		17.09	21.92	26.75	31.57	36.40	43.64	50.89	65.37	94.34	
MINIMUM H=2.84													
	Y	30.00			3.77	7.77	11.77	15.77	21.77	27.77	39.77	63.77	
	L1	30.00			11.90	15.90	19.90	23.90	29.90	35.90	47.90	71.90	
	L2	30.00			16.35	20.35	24.35	28.35	34.35	40.35	52.35	76.35	
	Z	30.00			19.00	22.46	25.93	29.39	34.59	39.78	50.17	70.96	
MINIMUM H=4.30													
	Y	45.00				2.40	5.23	8.06	12.30	16.54	25.03	42.00	
	L1	45.00				10.95	13.78	16.60	20.85	25.09	33.58	50.55	
	L2	45.00				17.62	20.45	23.28	27.52	31.77	40.25	57.22	
	Z	45.00				19.09	21.09	23.09	26.09	29.09	35.09	47.09	
MINIMUM H=7.84													
	Y	60.00					1.49	3.80	7.27	10.73	17.66	31.51	
	L1	60.00						12.94	16.41	19.87	26.80	40.66	
	L2	60.00						21.84	25.31	28.77	35.70	49.56	
	Z	60.00						20.79	22.53	24.26	27.72	34.65	
MINIMUM H=12.01													
	Y	90.00							1.50	4.50	10.50	22.50	
	L1	90.00									20.35	32.35	
	L2	90.00									33.70	45.70	
	Z	90.00									21.05	21.05	
MINIMUM H=21.05													
2 IMC/RIGID		Dia. = 2.375		Radius = 9.14		X = 4.6							
	Y	15.00			5.06	12.79	20.52	28.25	35.97	47.56	59.16	82.34	128.70
	L1	15.00	7.71	15.44	23.17	30.90	38.62	46.35	57.94	69.53	92.72	139.08	
	L2	15.00	10.11	17.83	25.56	33.29	41.02	48.74	60.33	71.93	95.11	141.47	
	Z	15.00	14.47	21.93	29.40	36.86	44.33	51.79	62.99	74.18	96.58	141.36	
MINIMUM H=1.81													
	Y	22.50		0.93	6.16	11.38	16.61	21.84	29.68	37.52	53.19	84.55	
	L1	22.50		10.41	15.63	20.86	26.08	31.31	39.15	46.99	62.67	94.03	
	L2	22.50		13.99	19.22	24.45	29.67	34.90	42.74	50.58	66.26	97.61	
	Z	22.50		17.89	22.72	27.55	32.38	37.21	44.45	51.69	66.18	95.15	
MINIMUM H=3.15													
	Y	30.00			2.58	6.58	10.58	14.58	20.58	26.58	38.58	62.58	
	L1	30.00			11.89	15.89	19.89	23.89	29.89	35.89	47.89	71.89	
	L2	30.00			16.67	20.67	24.67	28.67	34.67	40.67	52.67	76.67	
	Z	30.00			19.89	23.35	26.82	30.28	35.48	40.68	51.07	71.85	
MINIMUM H=4.75													
	Y	45.00				1.25	4.08	6.91	11.15	15.39	23.88	40.85	
	L1	45.00					13.75	16.58	20.82	25.06	33.55	50.52	
	L2	45.00					20.93	23.76	28.00	32.24	40.73	57.70	
	Z	45.00					22.17	24.17	27.17	30.17	36.17	48.17	
MINIMUM H=8.61													
	Y	60.00					0.30	2.61	6.07	9.54	16.46	30.32	
	L1	60.00							16.34	19.80	26.73	40.59	
	L2	60.00							25.91	29.37	36.30	50.16	
	Z	60.00							23.81	25.55	29.01	35.94	
MINIMUM H=13.12													
	Y	90.00							0.07	3.07	9.07	21.07	
	L1	90.00									20.08	32.08	
	L2	90.00									34.43	46.43	
	Z	90.00									22.88	22.88	
MINIMUM H=22.88													



Exploded View - 882 Series Hydraulic Benders



882 Hydraulic Bender—Parts List

Key	Control No.	Description	Qty.
	502 9536.5	882CB Hydraulic Bender for 1-1/4" - 2" EMT, IMC, Rigid Conduit and Schedule 40 Pipe; includes items 1 - 44 and all shoe groups on the following page	
	501 5128.2	882CB Hydraulic Bender for 1-1/4" - 2" EMT Conduit; includes items 1 - 44 and the EMT shoe groups on the following page	
1	501 5129.0	Ram, 12-ton model 1738 (consists of items 2 - 14)	1
2	905 0807.6	Coupler, quick, 3/8" female	1
3*	501 3496.5	Washer, flat, .321 x .460 x .040 nylon (used since 12/96)	2
3A*	500 3420.0	Washer, flat, .321 x .428 x .040 nylon (used before 12/96)	1
4	500 3477.4	Retainer, spring	2
5	500 1717.9	Screw, rear spring retainer (used since 12/96)	1
5A	501 1341.0	Screw, rear spring retainer (used before 12/96)	1
6	501 5132.0	Spring, extension, .820 x 1.11 x 8.43	1
7*	905 1133.6	O-Ring, 1.75 x 2.125 x .187	1
8*	905 1752.0	Backup ring, single turn 1.76 x 2.125 x .0781	1
9	501 5131.2	Piston	1
10	905 0226.4	Screw, front spring retainer	1
11	501 2121.9	Decal, safety	1
12	501 5130.4	Cylinder	1
13	905 0434.8	Ring, retaining, 5/16	1
14	501 5151.7	Pin, piston	1
	501 6563.1	Frame Unit (includes items 16 - 35)	1
16	501 5149.5	Block, cylinder	1
17	501 5150.9	Pin, hinge	1
18	905 0283.3	Ring, retaining, 3/4"	2
19	905 2401.2	Screw, machine #10 - 32 x 3/8 slotted pan head	1
20	501 5135.5	Bar, connecting lower	1
21	501 5147.9	Stud, anchor, 5/8 - 11 x 3.06	2
22	501 5136.3	Bar unit, connecting upper (consists of items 22 - 27)	1
23	501 5137.1	Bracket, hinge	1
24	905 0546.8	Screw, cap, 1/2 - 13 x 1.75 hex head	2
25	905 0640.5	Nut, hex, 1/2 - 13 hex	2
26	501 5139.8	Spacer, hinge	1
27	502 9940.9	Decal, ram travel	1
28	503 8778.2	Roller Unit with Pin (includes items 29 - 35)	1
29	503 8771.5	Shaft, roller	1
30	905 4030.1	Washer, thrust, 1.00 x 1.56 x .032	1
31	502 4727.1	Roller, 1.00 x 2.50 x 4.00	1
32	905 4303.3	Pin, hitch, .375 x 1.50	1
33	905 4179.6	Lanyard	1
34	905 1301.0	Ring, retaining, .987	1
35	905 4304.1	Nut, hex, 1 - 14 lock	1
36	500 4086.3	Pin, yoke, .995 x 3.62	1
37	502 9937.9	Pin, saddle, .620 x 5.00	1
38	905 0848.3	Nut, hex, 3/8 - 24 light jam	1
39	501 5145.2	Yoke	1
40	502 1954.5	Scale, ram travel	1
41	905 2867.0	O-Ring, .437 x .625 x .093	1
42	501 1289.9	Hose unit, 3/8" x 6' with couplers (consists of 43 and 44)	1
43	905 0760.6	Hose, 3/8 x 6'	1
44	905 0823.8	Coupler, quick, 3/8" male	2

* Item 3 is larger than item 3A; use item 3 if possible.

	502 3274.6	Box, steel storage (not pictured)	1
*	502 9348.6	Kit, repair, for 1738 Hydraulic ram (contains items with *)	

**Shoe Groups**

Cat. No.	Control No.	Description	Qty
T-G7	500 2544.9	Shoe Group for 1-1/4" EMT (consists of the following three items) .	1
	501 1146.9	Shoe (7-7/32" centerline bending radius)	1
	501 1075.6	Saddle	1
	501 1126.4	Follow Bar	1
T-G8	500 2545.7	Shoe Group for 1-1/2" EMT (consists of the following three items) .	1
	501 4287.9	Shoe (8-1/16" centerline bending radius)	1
	501 1072.1	Saddle	1
	501 1107.8	Follow Bar	1
T-G9	500 2546.5	Shoe Group for 2" EMT (consists of the following three items)	1
	501 1132.9	Shoe (9-5/16" centerline bending radius)	1
	501 4279.8	Saddle	1
	501 1089.6	Follow Bar	1
RI-G20	502 9946.8	Shoe Group for 1-1/4" Rigid/IMC (consists of the following three items)	1
	502 9474.1	Shoe (7-1/4" centerline bending radius)	1
	502 9465.2	Saddle	1
	502 9477.6	Follow Bar	1
RI-G24	502 9949.2	Shoe Group for 1-1/2" Rigid/IMC (consists of the following four items)	1
	502 9470.9	Shoe (8-1/4" centerline bending radius)	1
	502 9464.4	Saddle	1
	502 9472.5	Follow Bar	1
	502 9937.9	Saddle Pin	1
RI-G32	502 9950.6	Shoe Group for 2" Rigid/IMC (consists of the following four items) .	1
	502 9466.0	Shoe (8-7/8" centerline bending radius)	1
	502 9463.6	Saddle	1
	502 9468.7	Follow Bar	1
	502 9937.9	Saddle Pin	1

**Attachment Group: Rigid/IMC shoes, saddles, and follow bars:
turn an 882 into an 882CB**

882RIG1		502 9948.4	Attachment Group for 1-1/4" - 2" Rigid/IMC)	
for 1-1/4"	502 9474.1		Shoe (7-1/4" centerline bending radius)	1
	502 9465.2		Saddle	1
	502 9477.6		Follow Bar	1
for 1-1/2"	502 9470.9		Shoe (8-1/4" centerline bending radius)	1
	502 9464.4		Saddle	1
	502 9472.5		Follow Bar	1
for 2"	502 9466.0		Shoe (8-7/8" centerline bending radius)	1
	502 9463.6		Saddle	1
	502 9468.7		Follow Bar	1
for all sizes	502 9937.9		Saddle Pin	1

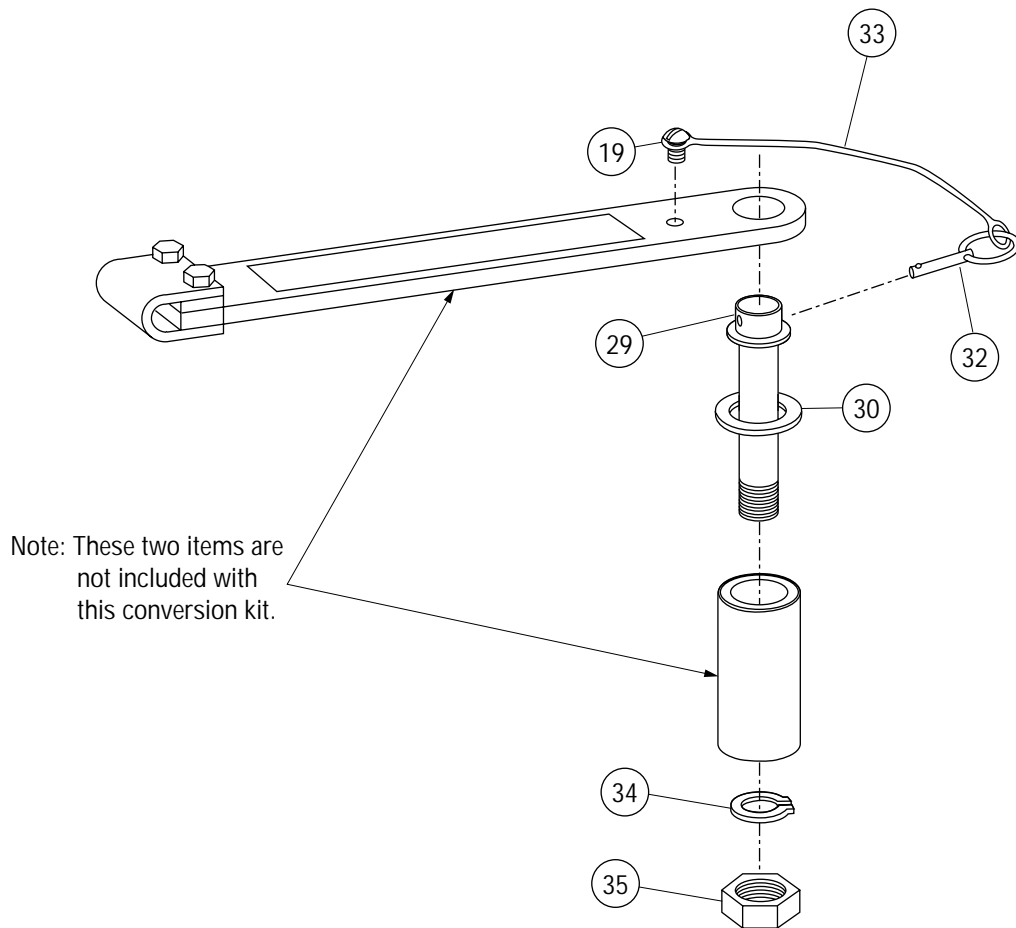
**EMT shoes, saddles, and follow bars: turn an 882RI
into an 882CB**

882T-G1		502 9947.6	Attachment Group for 1-1/4" - 2" EMT	
for 1-1/4"	501 1146.9		Shoe (7-7/32" centerline bending radius)	1
	501 1075.6		Saddle	1
	501 1126.4		Follow Bar	1
for 1-1/2"	501 4287.9		Shoe (8-1/16" centerline bending radius)	1
	501 1072.1		Saddle	1
	501 1107.8		Follow Bar	1
for 2"	501 1132.9		Shoe (9-5/16" centerline bending radius)	1
	501 4279.8		Saddle	1
	501 1089.6		Follow Bar	1

**Conversion Kit Converts to the newer Roller Pin Unit (for models
manufactured before January 1994)**

503 9447.9	Roller Pin Conversion Kit	
503 8771.5	Shaft, roller	1
905 4030.1	Washer, thrust, 1.00 x 1.56 x .032	1
905 4303.3	Pin, hitch, .375 x 1.50	1
905 4179.6	Lanyard	1
905 1301.0	Ring, retaining, .987	1

503 9447.9 Conversion Kit—Exploded View



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