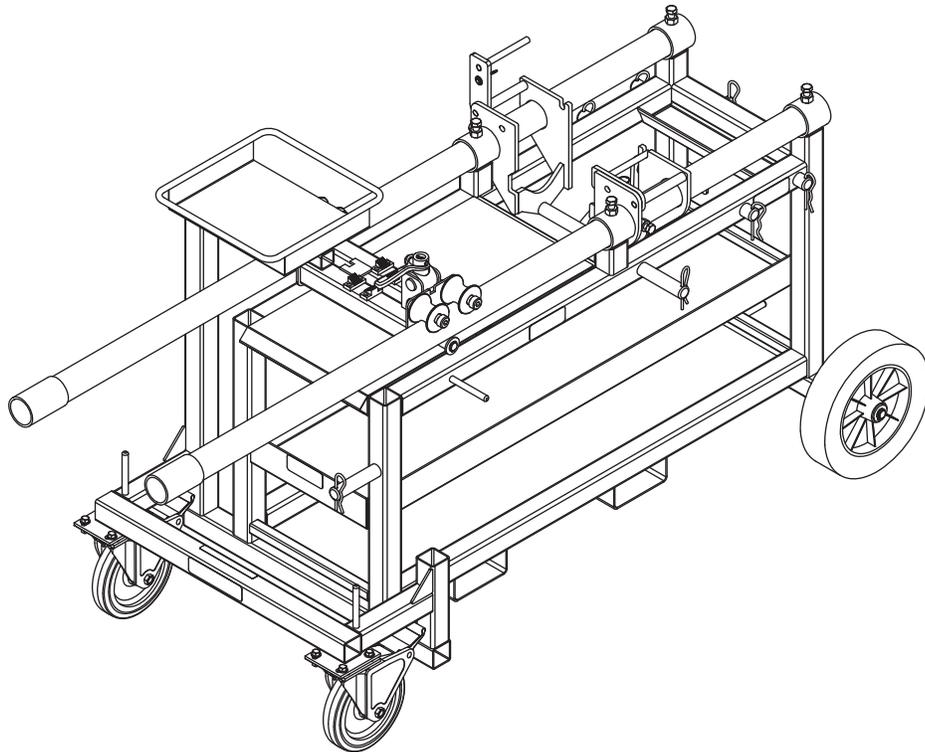


INSTRUCTION MANUAL



881-MBT

Mobile Bending Table

for 881 Hydraulic Bender



Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Register this product at www.greenlee.com

Table of Contents

| | |
|-------------------------------------|------|
| Description | 2 |
| Safety | 2 |
| Purpose of this Manual | 2 |
| Other Publications | 2 |
| Important Safety Information | 3 |
| Identification | 4 |
| Setup | 4-5 |
| Adjusting Ram Position | 6 |
| Carrier Features | 7 |
| Bending | 8 |
| Illustrations and Parts Lists | 9-10 |

Description

The Greenlee 881-MBT Mobile Bending Table is intended to make the Greenlee 881 Hydraulic Bender easier to use and move. Loading is faster and easier. The vertical, bench-high bending allows for greater control and freedom of movement for the operator. Use of the 881-MBT also simplifies difficult bending operations, reducing bending time and increasing accuracy.

Safety

Safety is essential in the use and maintenance of Greenlee tools and equipment. This instruction manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe operation and maintenance procedures for the following Greenlee tool:

881-MBT Mobile Bending Table

Keep this manual available to all personnel.

Replacement manuals are available upon request at no charge at www.greenlee.com.

Other Publications

Instruction Manual for 881 and 881CT Cam Track® Hydraulic Benders: Publication 99980711 (IM 981)

All specifications are nominal and may change as design improvements occur. Greenlee Textron Inc. shall not be liable for damages resulting from misapplication or misuse of its products. Cam Track is a registered trademark of Greenlee Textron Inc.

KEEP THIS MANUAL

IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

⚠️ DANGER

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

⚠️ WARNING

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

⚠️ CAUTION

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



⚠️ WARNING

Pinch points:
Keep hands away from moving parts.
Failure to observe this warning could result in severe injury or death.



⚠️ WARNING

- Do not use as a step or ladder.
- Use only on a hard, flat, level surface.

Failure to observe these warnings could result in severe injury or death.

⚠️ WARNING

- Keep bystanders a safe distance from the work area.
- Follow recommended service procedures.
- Use only original equipment or Greenlee specified replacement parts and accessories.
- Use this unit for the manufacturer's intended purpose only, as described in this manual.

Failure to observe these warnings could result in severe injury or death.



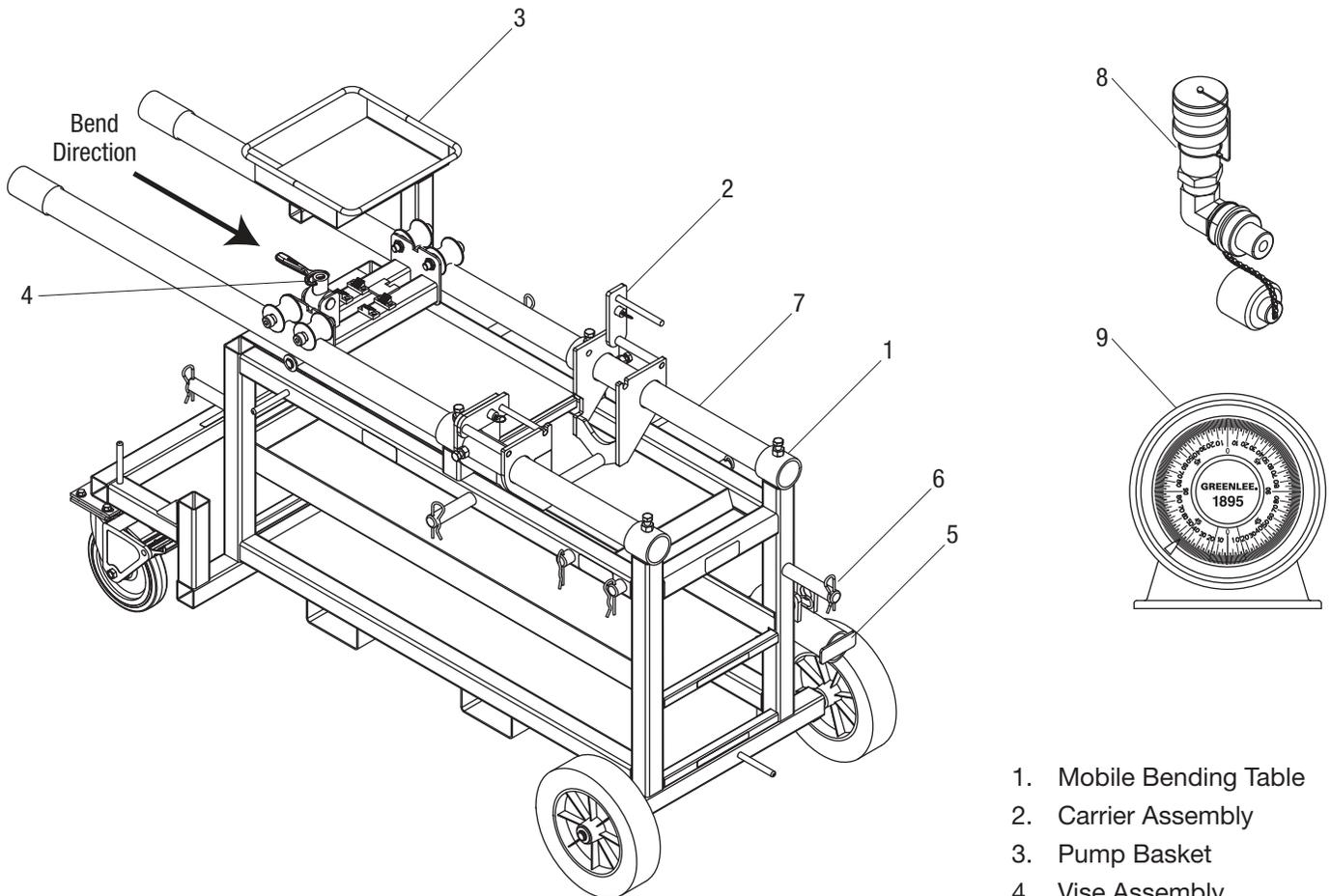
⚠️ WARNING

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Failure to observe this warning could result in severe injury or death.

Note: Keep all decals clean and legible, and replace when necessary.

Identification



1. Mobile Bending Table
2. Carrier Assembly
3. Pump Basket
4. Vise Assembly
5. Ram Positioner
6. Hitch Pins (9)
7. Conduit (80")
8. 90° Coupler
9. 1895 Protractor

Setup

Mobile Bending Table

1. Assemble unit as shown above.
2. Tighten four bolts so conduit cannot move.
3. Hand tighten couplers on end of conduit.

Setup (cont'd)

Bender

1. Position shoes, follow bars, saddles, and pump as shown in Fig. 1 and 2.

Note: Some follow bars are stored on the shelf behind the shoe.

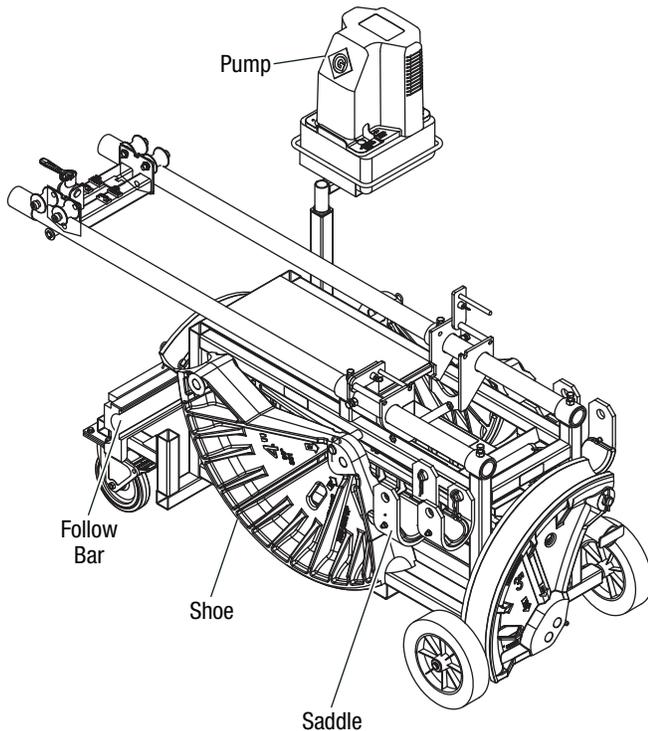


Figure 1

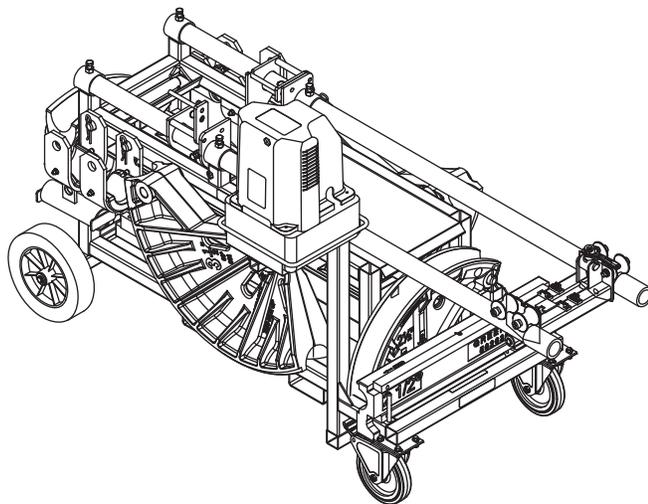


Figure 2

2. Refer to 99980711 (IM 981) to assemble the 881 connecting bars and roller. Place them into the carrier assembly and pivot into the horizontal position.

3. Place the ram in-between the connecting bars as shown in Fig. 3.

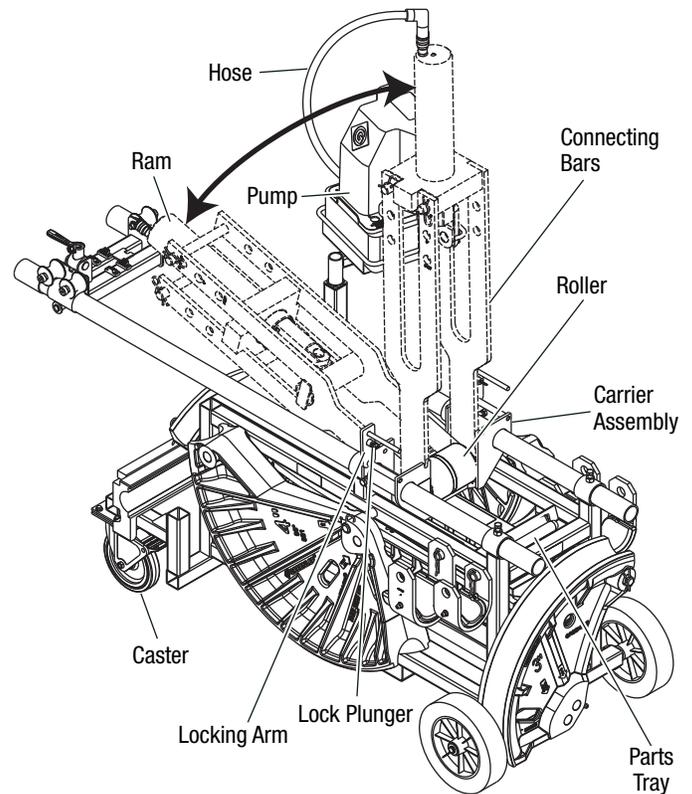


Figure 3

4. Assemble the yoke, spring clip, ram positioner, and pins. Position this assembly as close as possible to the connecting bar pivot point. Pivot the connecting bars with ram into the vertical position and lock in place (Fig. 4).

Note: One of the cylinder block pin units should be holding the connecting bars together at all times.

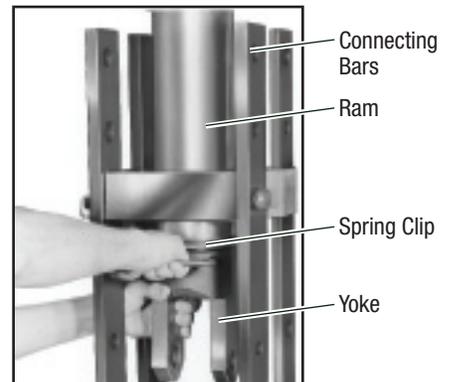


Figure 4

5. Attach the 90° coupling to the ram coupling of the bender. Then connect the pump to the ram, using the high pressure hose supplied with your bender.

Adjusting Ram Position

Setup

1. The ram positioner is used to adjust the position of the ram. Refer to the markings stamped on the connecting bars for the proper ram positions for each size of conduit.
2. Rotate the yoke 90° from its normal position and place the ram positioner between the connecting bars as shown in Fig. 5. Mounting tabs of ram positioner should be up as shown in Fig. 6.
3. Apply pressure to gradually extend the ram until the holes of the ram positioner line up with the holes of the yoke. Then attach the ram positioner to the yoke with the yoke pin as shown in Fig. 7.

Changing Ram Positions

1. Remove the hitch pins from each of the cylinder head pins and then remove each pin as shown in Fig. 8. You may need to apply or release pressure on the ram in order to free the pins from the cylinder block.
2. Use the pump to extend the ram if you wish to raise the cylinder block—or release the pressure to lower the block—to align it with proper set of holes in the connecting bars for the size of conduit you are bending. Again you may need to apply or release pressure in short bursts in order to properly align the holes before you can re-insert the cylinder head pins as shown in Fig. 9.

Note: Be very careful that you do not elevate the ram unit above the top of the connecting bars when positioning for 4" conduit.

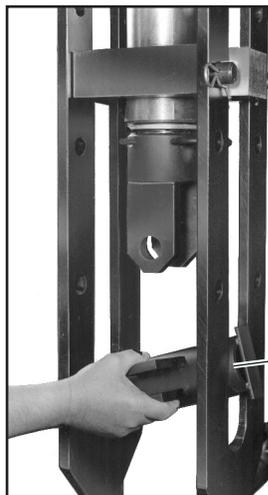


Figure 5



Figure 6

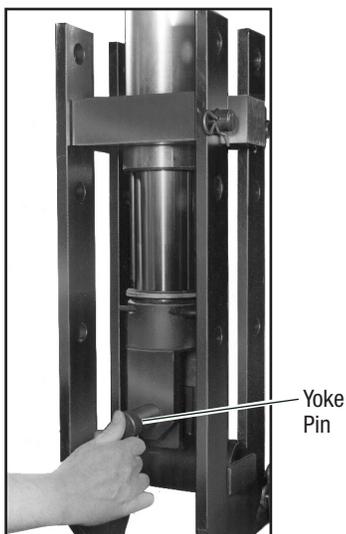


Figure 7

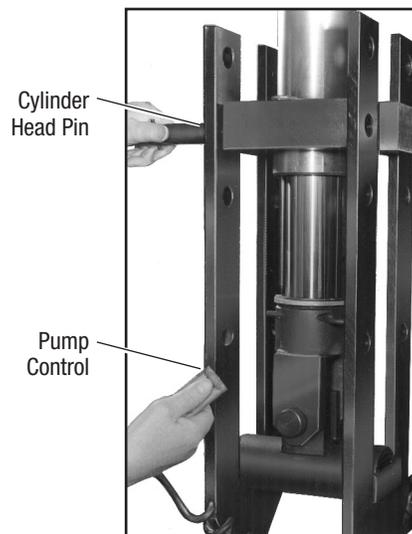


Figure 8



Figure 9

Carrier Features

The carrier assembly will hold the bender in the upright position, allow for the bender to pivot into a horizontal position, and slide into the bending or transport position. All illustrations in this manual show the carrier assembly in the bending position.

1. To slide the carrier assembly into the transport position:

- Make sure the casters are in the locked position so the table does not move.
- Loosen the screws (one on each side) on the carrier assembly and pull snug toward the parts tray.

2. To pivot the bender connecting bars to horizontal position:

- Make sure the casters are in the locked position so the table does not move.
- Use the ram positioner to lower the ram as low as possible. Refer to “Adjusting Ram Position.”
- Make sure the pump and hose are out of the connecting bar pivot path.

- Disengage the lock plungers and flip the locking arms upward while maintaining control of the bender connecting bars.
- Carefully pivot the connecting bars into the horizontal position.

Note: Do not use the fitting on the ram as a handle. Do not use the fitting on the ram to rest the weight of the ram on the vise assembly.

3. To reposition the connecting bars to the vertical position:

- Make sure the casters are in the locked position so the table does not move.
- Make sure the ram positioner is used to position the ram as close as possible to the pivot point.
- Make sure the pump and hose are out of the connecting bar pivot path.
- Make sure locking arms are in the up/open position.
- Carefully pivot the connecting bar assembly into the vertical position and lock in place.

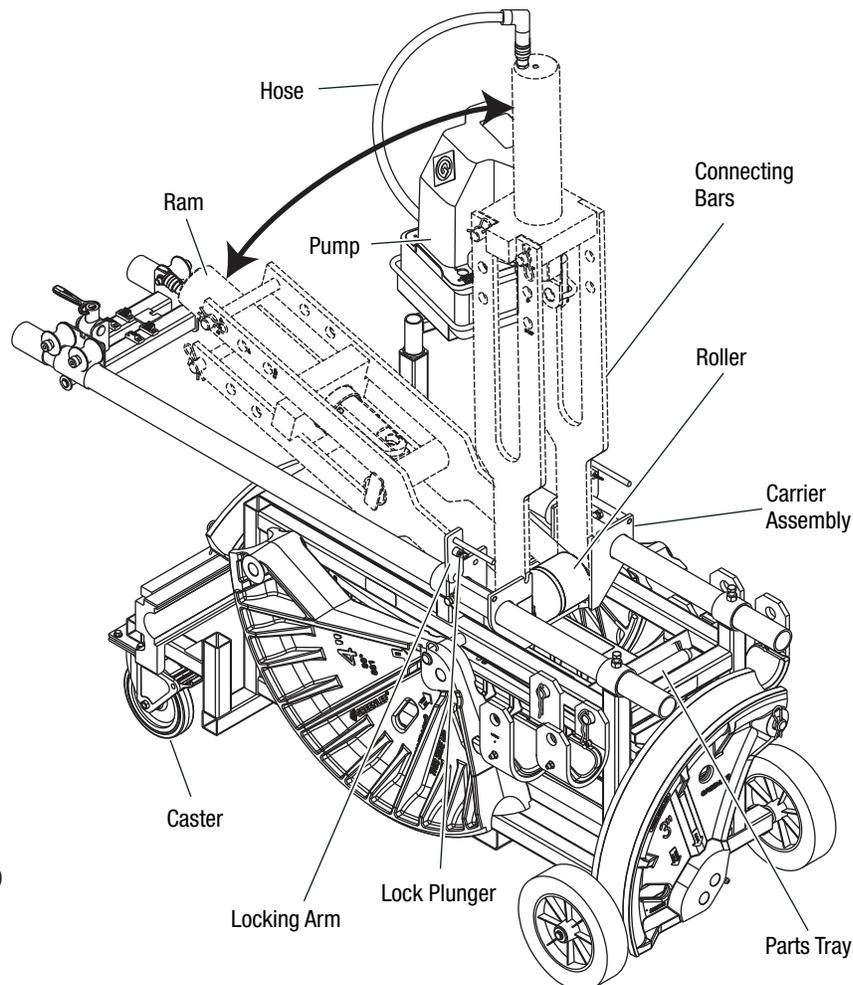


Figure 10

Bending

1. Install the proper shoe and follow bar for the conduit size to be bent.
2. Load the conduit into the bender and position for the bend. Attach the saddle to the shoe.
3. Strap down the other end of the conduit, using the chain vise on the vise assembly. Always locate this assembly as far as possible from the end of the conduit being bent.

For detailed bending instructions, refer to the instruction manual for the 881 and 881CT Hydraulic Benders—publication 99980711 (IM 981).

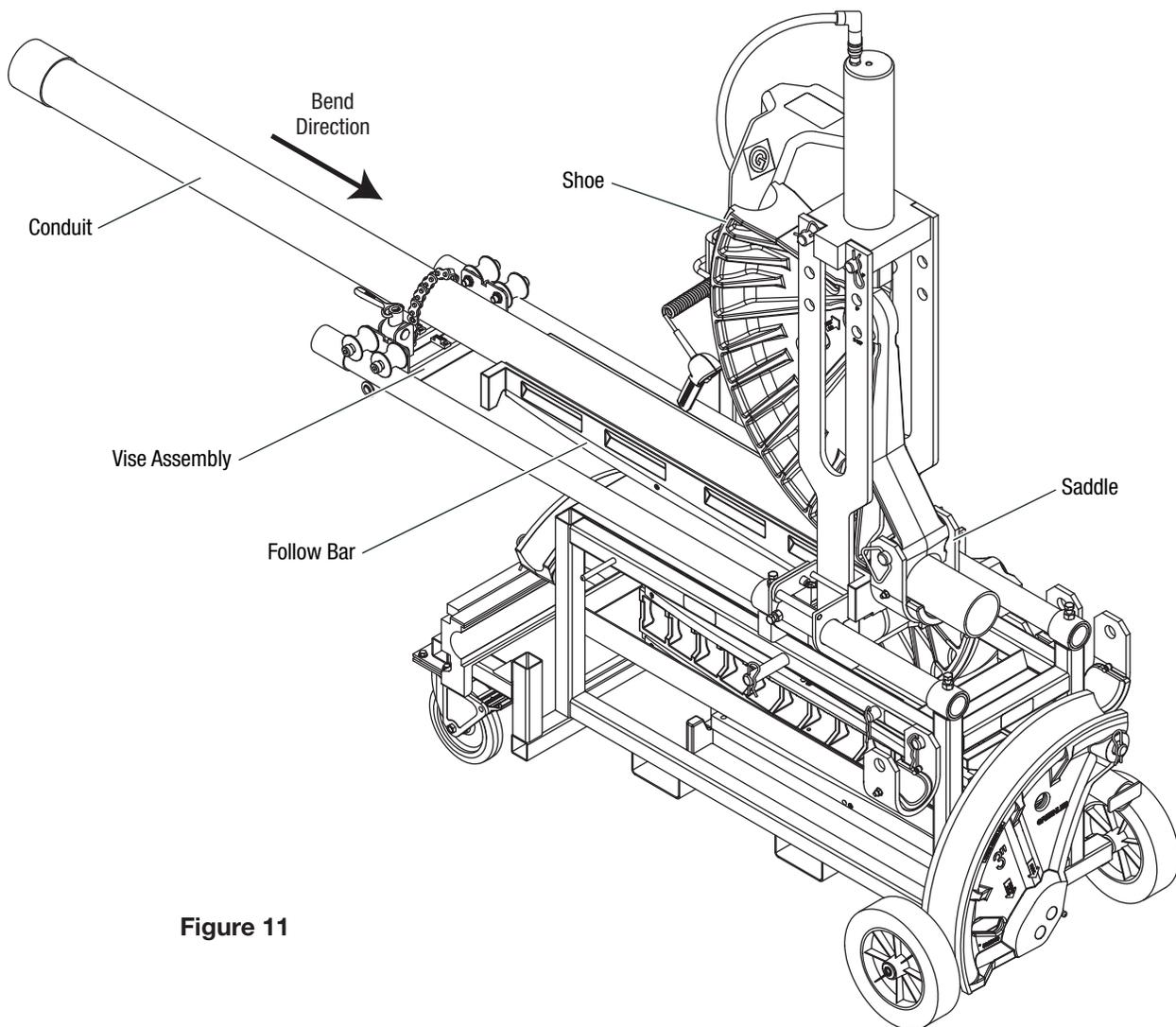
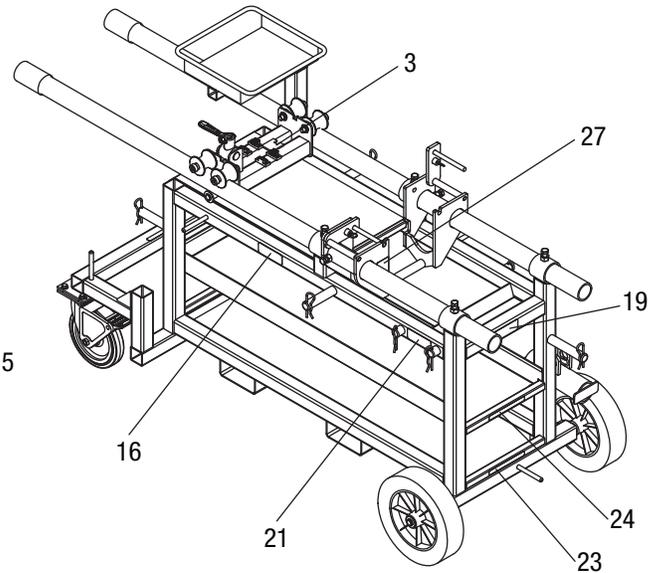
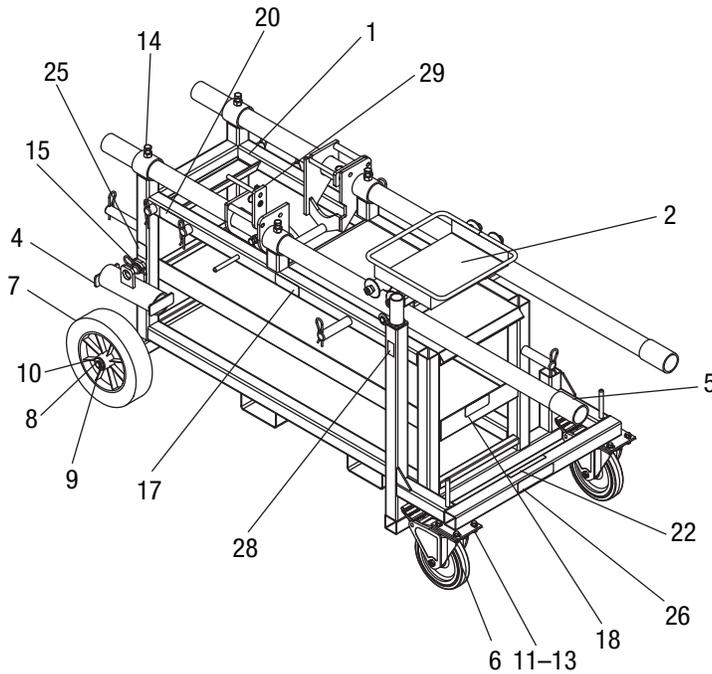


Figure 11

Illustration and Parts List—Main



| Key | Part No. | Description | Qty |
|-----|----------|--|-----|
| 1 | | Frame weldment, transport | 1 |
| 2 | 52061616 | Basket weldment, pump | 1 |
| 3 | 52061918 | Vise assembly | 1 |
| 4 | 52061635 | Positioner unit, ram | 1 |
| 5 | | IMC/rigid conduit and coupler, 80" long | 2 |
| 6 | 52062317 | Caster, 8" swivel lock | 2 |
| 7 | 90533909 | Wheel | 2 |
| 8 | 52061614 | Axle, cart | 1 |
| 9* | | Ring, retaining | 2 |
| 10* | | Washer | 4 |
| 11* | | Nut, 3/8-16 hex, reg. full | 8 |
| 12* | | Washer, lock | 8 |
| 13* | | Screw, self-tapping | 8 |
| 14* | | Screw, cap, 1/2-13 x 1.00 hex head | 4 |

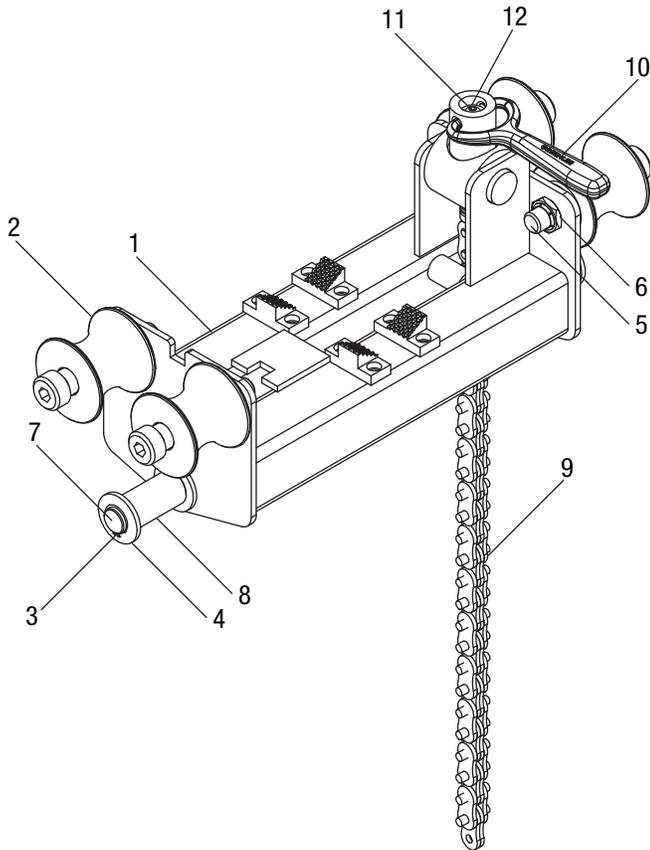
| Key | Part No. | Description | Qty |
|-----|----------|---------------------------------------|-----|
| 15 | | Hairpin, cotter | 9 |
| 16 | | Decal, 4 shoe | 1 |
| 17 | | Decal, 3-1/2, 3 shoe | 1 |
| 18 | | Decal, 2-1/2 shoe | 1 |
| 19 | | Decal, 3 shoe | 1 |
| 20 | | Decal, 3-1/2, 3 saddle | 1 |
| 21 | | Decal, 4, 2-1/2 saddle | 1 |
| 22 | | Decal, 2-1/2 follow bar | 1 |
| 23 | | Decal, 3 follow bar | 1 |
| 24 | | Decal, 3-1/2, 4 follow bar | 1 |
| 25 | | Decal, ram positioner | 1 |
| 26 | | Decal, identification (881-MBT) | 1 |
| 27 | | Decal, safety | 1 |
| 28 | | Decal, QR tag | 1 |
| 29 | 52061979 | Carrier assembly | 1 |

52062915 Decal kit (includes 16–28)

51503020 Cotter pin (10-pack)

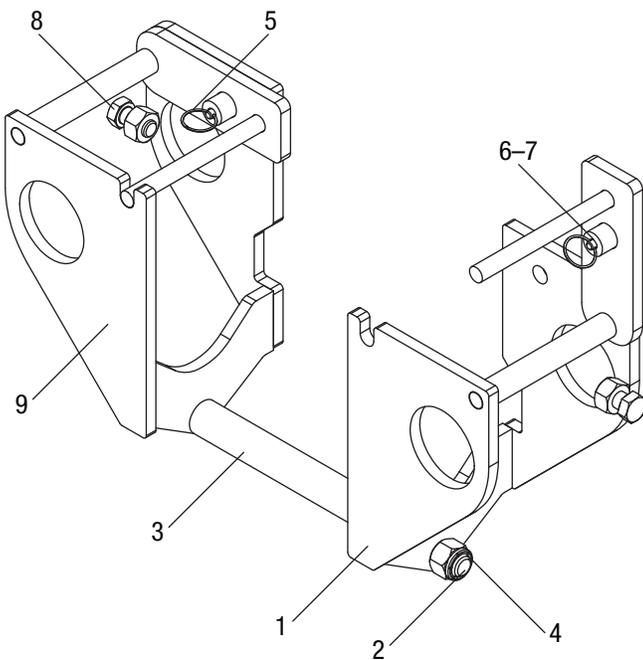
* 52062916 Fastener kit (includes items marked with an asterisk)

Illustration and Parts List—Vise Assembly



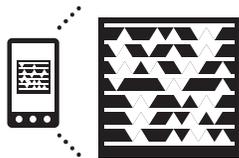
| Key | Part No. | Description | Qty |
|-----|-----------------|---|-----|
| | 52061918 | Vise assembly | |
| 1 | | Frame weldment, vise..... | 1 |
| 2 | | Roller, 2" pipe..... | 4 |
| 3* | | Ring, retaining..... | 2 |
| 4* | | Washer..... | 8 |
| 5 | | Screw, socket head cap shoulder | 4 |
| 6 | | Nut, hex, LOC head thin | 4 |
| 7 | | Axle..... | 1 |
| 8 | | Roller, straight..... | 2 |
| 9 | | Screw unit, 21" vise chain | 1 |
| 10 | | Handle unit, vise chain..... | 1 |
| 11* | | Screw, cap, 1/4 socket button head..... | 1 |
| 12* | | Washer, flat | 1 |
| | 52063434 | Pipe roller kit (includes 2, 4–6) | |
| | 52063435 | Axle/roller kit (includes items 3, 4, 7, 8) | |
| | 52063436 | Screw/handle kit (includes items 9–12) | |
| * | 52062916 | Fastener kit (includes items marked with an asterisk) | |

Illustration and Parts List—Carrier Assembly



| Key | Part No. | Description | Qty |
|-----|-----------------|---|-----|
| | 52061979 | Carrier assembly | |
| 1 | | Carrier unit, left | 1 |
| 2 | | Tie rod..... | 1 |
| 3 | | Sleeve | 1 |
| 4* | | Nut, 5/8-11 UNC NY lock | 2 |
| 5* | | Ring, pull..... | 2 |
| 6* | | Spring, collar..... | 2 |
| 7 | | Plunger..... | 2 |
| 8* | | Screw, cap, 1/2-13 x 1.00 hex head..... | 2 |
| 9 | | Carrier unit, right..... | 1 |
| * | 52062916 | Fastener kit (includes items marked with an asterisk) | |

Scan with your Smart Phone
to view a video for the
881-MBT Mobile Bending Table



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