
Operator's Manual

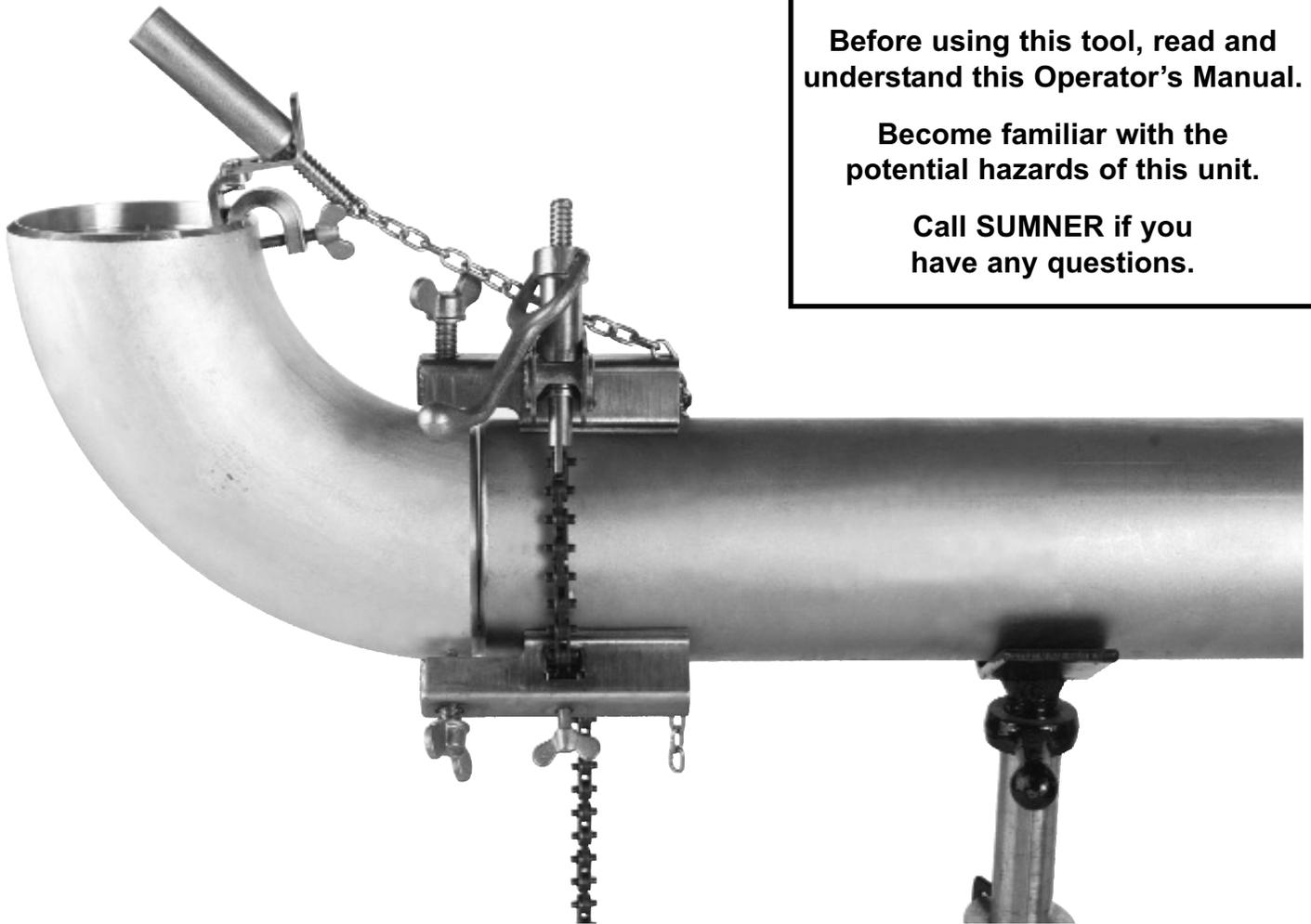
Clamp Champ

WARNING!

Before using this tool, read and understand this Operator's Manual.

Become familiar with the potential hazards of this unit.

Call SUMNER if you have any questions.



SUMNER

US

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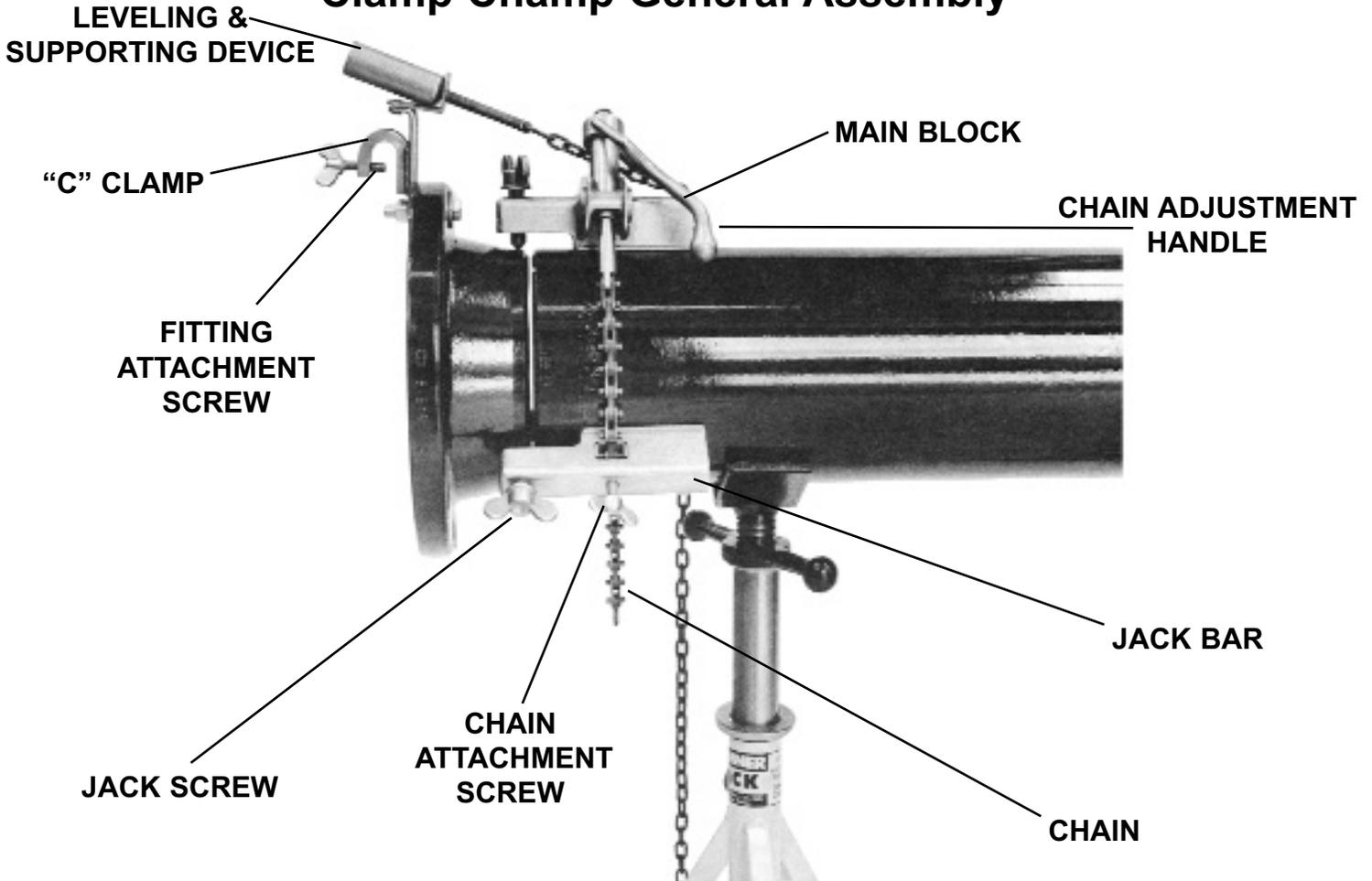
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Clamp Champ General Assembly



OWNER'S RESPONSIBILITIES

Throughout this publication, the words **WARNING**, **CAUTION** and **IMPORTANT** will be used to alert the user to special instructions concerning a particular operation that may be hazardous if performed incorrectly or carelessly.

OBSERVE THEM CAREFULLY!



WARNING Hazards or unsafe practices which could result in severe personal injury or death.



CAUTION Hazards or unsafe practices which could result in minor personal injury, product or property damage.



IMPORTANT Indicates information or instructions that are necessary for proper operation and/or maintenance.

OPERATOR SAFETY INSTRUCTIONS



IMPORTANT

Read and understand this instruction manual prior to operating or performing maintenance on this tool.

The Sumner Clamp Champ is designed for positioning and aligning pipe and fittings in the range of 1-10", 1-16" and 10-36" Additional pipe sizes can be achieved using Clamp Champ extension kits.



WARNING - *The Clamp Champ is not to be used in fitting applications.*

To accomplish each of the functions safely requires dexterity and mechanical skills, as well as sound safety habits.

Although the Clamp Champ is manufactured for safe, dependable operation, it is impossible to anticipate those combinations of circumstances which could result in an accident. The following instructions are recommended for safe operation of this tool.

1. Read and understand the Operator's Manual. Before operating this tool, read the Operator's Manual carefully. Become familiar with the tool operation, applications and limitations. Always contact the factory if in doubt. Be particularly aware of its specific hazards. Store the Operator's Manual in a clean area and always at a readily available location. Additional copies are available at no charge by request at sumner.com.

2. Inspect the equipment. Prior to using the Clamp Champ, check all parts to ensure that they are in proper operating condition.



IMPORTANT - *Make any necessary repairs before attempting to operate the unit.*

- 3. Wear proper clothing.** Hard hat, protective eye covering, safety shoes and gloves should be worn as a precaution while operating this equipment.
- 4. Keep work areas clean.** Always keep floor in work area clear of clutter.
- 5. Keep alert.** Avoid horseplay around equipment and keep bystanders at a safe distance. Do not allow children to operate this tool and always keep them out of work areas.
- 6. Do not misuse tool.** Perform only the function for which the tool is designed. Never attempt to operate the equipment for more than the recommended function.



WARNING - *Using the Clamp Champ as a reforming tool on pipe unit greater than 1" or 25mm may result in operator injury or damages to the tool.*

- 7. Use only factory recommended accessories.**



CAUTION - *Use of improper accessories may be hazardous.*

OPERATING PROCEDURES

Mounting the Clamp Champ

1. The Clamp Champ comes complete with three to nine jack bars. Depending on pipe size and the fit-up, two jack bars and the main block may be adequate for most fit-up jobs.
2. Remove Clamp Champ from carrying case and spread out on a table. To add jack bars, slide the chain through the opening in jack bars and loosely tighten chain attachment screw.



NOTE - Jack bars should be facing same direction as the main block.

3. Estimate location of jack bars to fit on the pipe in a 4, 8 and 12 o'clock position (if using 2 jack bars and the main block) or 3, 6, 9 and 12 o'clock position when using three jack bars. Before mounting tool, make sure there is ample thread length on the chain adjustment shaft so that slack can be taken out of the chain.
4. While holding main block and chain adjustment handle in one hand and the end of the chain with the other, wrap the pipe end with the Clamp Champ. The main block should be located at the top of the pipe.
(See photo top right)



Step 4

5. Attach the chain to the main block and remove slack by tightening the chain adjustment. **(See below)**



Step 5

6. Tighten chain enough so that jack bars can be positioned. By loosening the chain attachment screws move jack bars to the desired location. The body of the jack bars should be about an inch (25mm) from the pipe end.



Step 6

7. Once jack bars are in the correct position, tighten the chain attachment screws and the chain adjustment handles.



Step 7

Fitting an Elbow in the “Up” Position



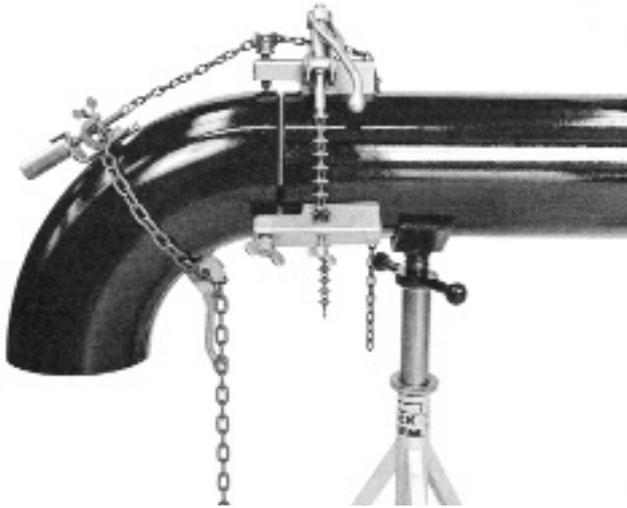
1. Mount the Clamp Champ onto the pipe end as shown in the earlier section. Position the jack screws so that the ball is even with the surface of the pipe.
2. Rotate the adjustment knob on the leveling and supporting devices so that approximately 2 inches (50mm) of threaded shaft is extended.
3. Attach the "C" clamp portion of the leveling and supporting device onto the inside of the elbow. The fitting attachment screw should be on the inside of the fitting while the flat portion should be on the outside. Center the "C" clamp and tighten securely the fitting attachment screw.
4. Pick up fitting with both hands and rest the bottom of the fitting onto the lower jack bars.

CAUTION - Do not lift fitting by leveling and supporting devices. If the fitting is too heavy to lift, use a crane or Roust-A-Bout.

5. Once fitting is resting on jack bar, hook leveling and supporting device chain onto notch located behind the main block. Allow space between pipe and fitting for adjustment.
6. Remove high-lows by adjusting the jack bar screws on the high spots.

7. Check alignment of the pipe by first placing a level on top of the fitting opening in the direction opposite the run of the pipe. After rotating the pipe until level. place level parallel to the pipe. Using support and leveling device knob, adjust fitting until level. Once spaced and leveled, tack fitting onto pipe and remove clamp.

**Fitting an Elbow in the “Down” Position
(Requires the Sumner Hold Down Device,
Part No. 781050)**



1. Mount the Clamp Champ onto the pipe end as shown in the previous section. Position the jack screws so that the ball is even with the surface of the pipe.
2. Wrap the Sumner Hold Down Device around the middle of the fitting and loosely tighten chain. Slide flat portion of the leveling and supporting device under chain on the back side of the fitting until chain fits into "C" clamp. Tighten fitting attachment screw and Hold Down Device. **(See Photo Top Right)**
3. Rotate the adjustment knob on the leveling and supporting devices so that approximately 2 inches (50mm) of threaded shaft is extended.



Step 2

4. Pick up fitting with both hands and rest the fitting onto the two lower jack bars.



CAUTION - Do not lift fitting by leveling and supporting devices. If the fitting is too heavy to lift, use a crane or Roust-A-Bout.



Step 4

5. Once fitting is resting on jack bar, hook leveling and supporting device chain onto notch located behind the main block. Allow space between pipe and fitting for adjustment.
6. Check for high-lows by adjusting jack screws.
7. To square pipe, place level on the fitting opening positioned at a right angle to the run of the pipe. After rotating pipe until level, place level so that it is parallel with pipe. Adjust leveling and supporting device knob until square.
8. Tack weld and remove Clamp Champ.



Step 2

Fitting Up A Flange



1. Mount the Clamp Champ onto the pipe end as shown in earlier section. Position the jack screws so that the ball is even with the surface of the pipe.
2. The leveling and supporting device must be bolted onto the flange. Place the flat portion onto the face of the flange and attach with the nut and bolt provided in Clamp Champ kit. Bolt need only be hand tight. **(See Photos Top Right)**



Step 2 Continued

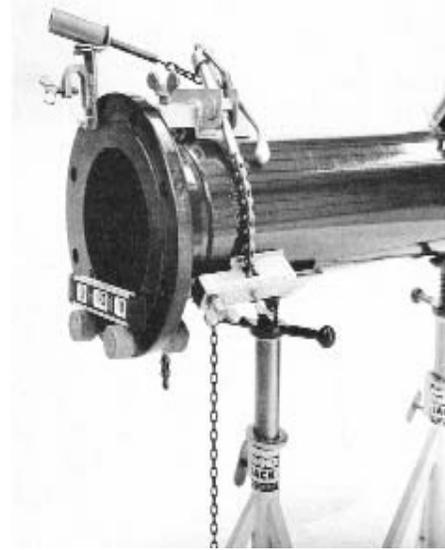
3. Rotate the adjustment knob on the leveling and supporting device so that approximately 2 inches (50mm) of threaded shaft is extended.
4. Pick up the flange so that the leveling and supporting device is on top. **(See Photo Next Page Top Left)**



CAUTION - Do not lift fitting by leveling and supporting devices. If the fitting is too heavy to lift, use a crane or Roust-A-Bout.



Step 4



Using the Sumner flange pins

Fitting up a "T" perpendicular to the pipe and in line with the pipe

1. Mount the Clamp Champ onto the pipe as shown in the earlier section. Position the jack screws so that the ball is even with the surface of the pipe.

5. Once flange is resting on jack bars, hook leveling and supporting device chain onto notch located behind the main block. Allow spaces between pipe and flange for adjustment.
6. Check for high-lows by adjusting jack screws.
7. Face up flange by using the level and supporting device.
8. For two-holing, use Sumner Flange Pins (Sumner PN 780430) which can be mounted in two flange holes. Using a torpedo level resting on the Sumner flange pins, rotate fitting until level.



Step 1

2. Rotate the adjustment knob on the leveling and supporting device so that approximately 2 inches (50mm) of threaded shaft is extended.



Step 2

3. Attach the "C" clamp portion of the leveling and supporting device onto the inside of the elbow. Center the "C" clamp and tighten securely the fitting attachment screw.

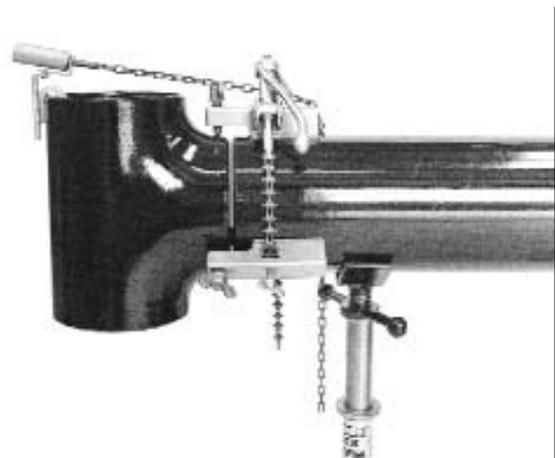


Step 3

4. Pick up fitting with both hands and rest bottom of fitting onto the two lower jack bars.

! CAUTION - Do not lift fitting by leveling and supporting device. If the fitting is too heavy to lift, use a crane or Roust-A-Bout.

5. Once fitting is resting on jack bar, hook leveling and supporting device chain onto notch located behind the main block. Allow space between pipe and fitting for adjustment.
6. Remove high-lows by adjusting the jack bar screws on the high spots.
7. Check alignment by first placing a level on the fitting opening. Level should be 90 degrees from the run of the pipe. After rotating the fitting until level, place the level so that it is in line with the pipe. Using the support and leveling devices knob, adjust fitting until level. Once spaced and leveled, tack fitting onto pipe and remove clamp.



Fitting up a "T" crosswise (Requires use of Sumner Hold Down Device No. 780150)

1. Mount the Clamp Champ onto the pipe end as shown in previous sections. Position the jack screws so that the ball is even with the surface of the pipe.
2. Wrap the Sumner Hold Down device through the "T" and loosely tighten chain. slide flat portion of the leveling and supporting device under chain until chain fits into "C" clamp. Tighten fitting attachment screw and Hold Down Device.

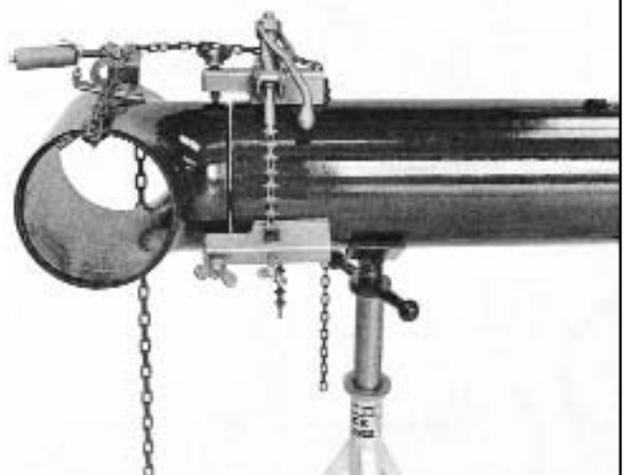


3. Rotate the adjustment knob on the leveling and supporting device so that approximately 2 inches (50mm) of threaded shaft is extended.
4. Pick up fitting with both hands and rest the fitting onto the two lower jack bars.



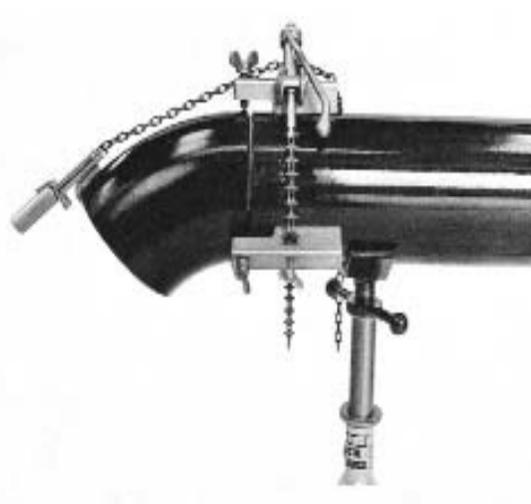
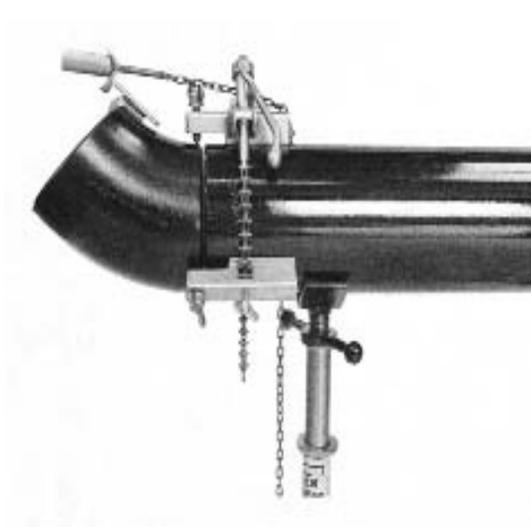
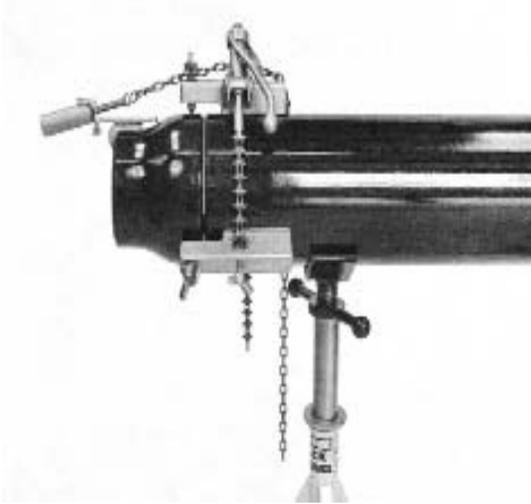
CAUTION - Do not lift fitting by leveling and supporting devices. If the fitting is too heavy to lift, use a crane or Roust-A-Bout.

5. Once fitting is resting on jack bar, hook leveling and supporting device chain onto notch located behind the main block. Allow space between pipe and fitting for adjustment.
6. Check for high-lows by adjusting jack screws.
7. Check alignment by first placing a level on the fitting opening. Level should be 90 degrees from the run of the pipe. After rotating the fitting until level, square the fitting by adjusting support and leveling device. Once spaced and leveled, back fitting onto pipe and remove clamp.



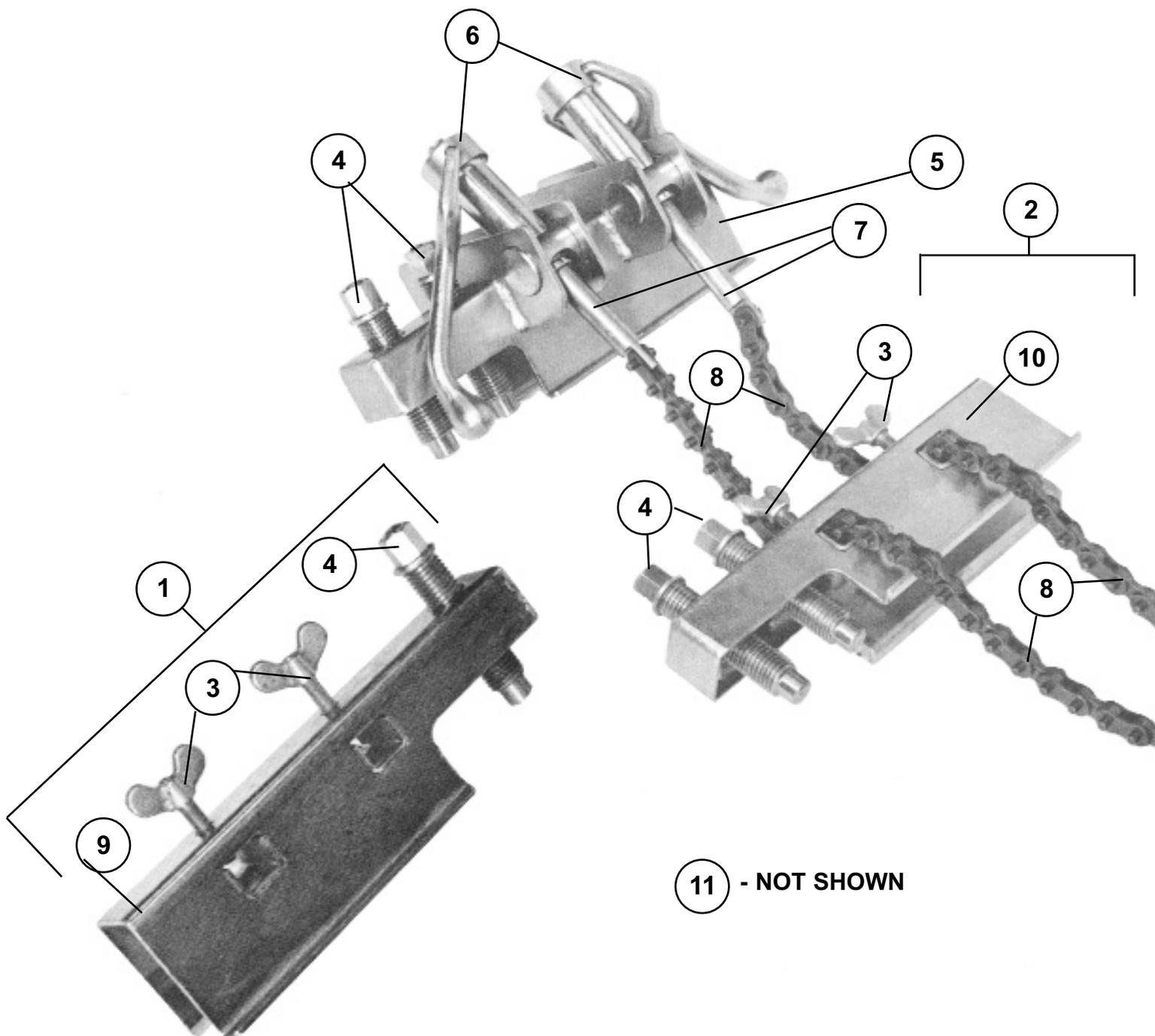
Fitting up reducers and 45's

Follow fit-up instructions for elbows when working with reducers and 45's.



Maintenance and Care

1. Always keep Clamp Champ clean and free of dirt.
2. Apply light oil on chain and threaded parts.
3. Replace worn parts.
4. Use only Sumner replacement parts.



11 - NOT SHOWN

STAINLESS STEEL MODELS					STANDARD MODELS				
ITEM	PART NO.	DESCRIPTION	CLAMP CHAMP	CLAMP CHAMP II	ITEM	PART NO.	DESCRIPTION	CLAMP CHAMP	CLAMP CHAMP II
1	781215	JACK BAR W/SCREWS-CC	9	-	1	781205	JACK BAR W/SCREWS-CC	9	-
2	781255	JACK BAR W/SCREWS-CCII	-	9	2	781254	JACK BAR W/SCREWS-CCII	-	9
3	776026	CHAIN ATTACHMENT SCREW	18	18	3	776028	CHAIN ATTACHMENT SCREW	18	18
4	781224	JACK SCREW	10	20	4	781210	JACK SCREW	10	20
5	781261	MAIN BLOCK - CCII	0	1	5	781258	MAIN BLOCK - CCII	0	1
6	781009	ADJUSTMENT NUT & HANDLE	2	2	6	781009	ADJUSTMENT NUT & HANDLE	2	2
7	781011	ADJUSTMENT ROD	2	2	7	781001	ADJUSTMENT ROD	2	2
8	779306	WRENCH CHAIN - 12" LONG	2	2	8	779306	WRENCH CHAIN - 12" LONG	2	2
9	781223	JACK BAR WELDMENT-CC	9	-	9	781207	JACK BAR WELDMENT-CC	9	-
10	781257	JACK BAR WELDMENT-CCII	-	9	10	781256	JACK BAR WELDMENT-CCII	-	9
11	781221	MAIN BLOCK - CC	1	-	11	781202	MAIN BLOCK - CC	1	-

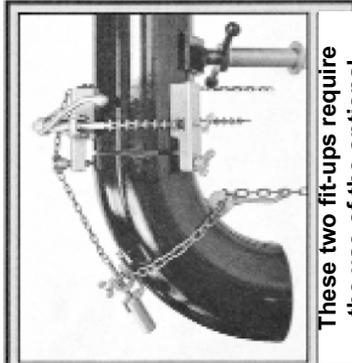
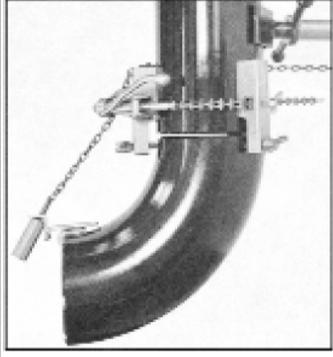
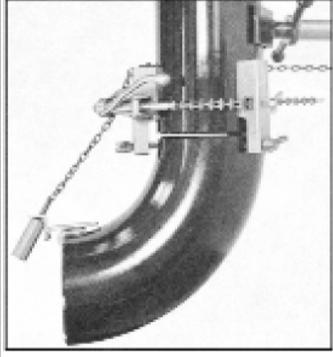
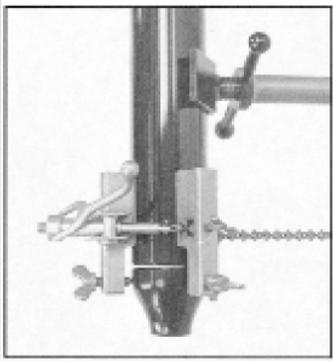
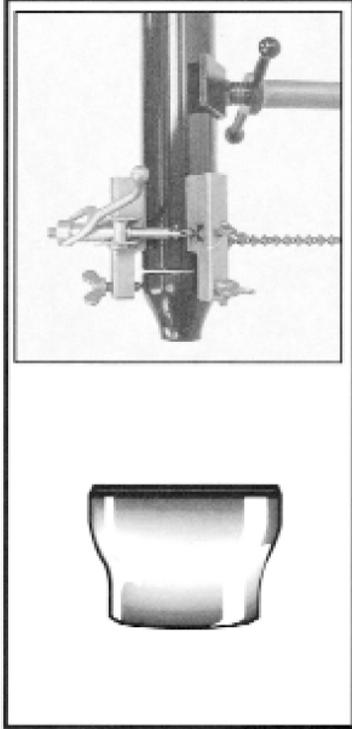
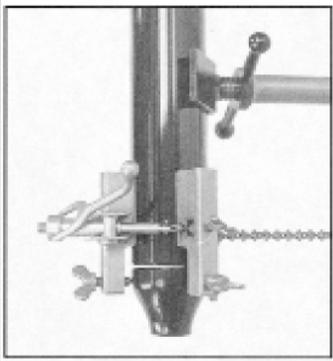
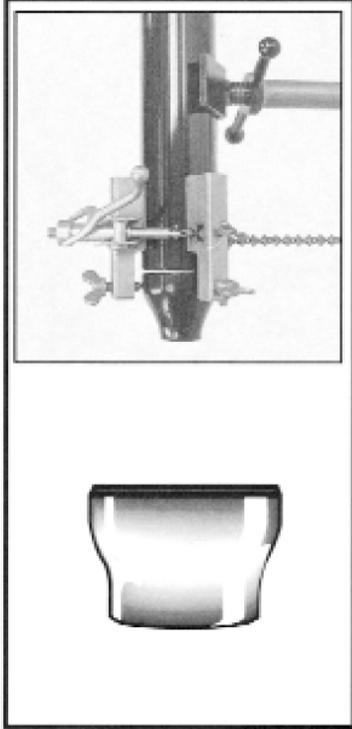
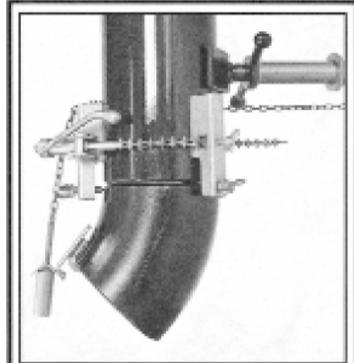
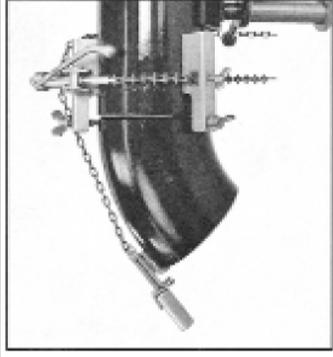
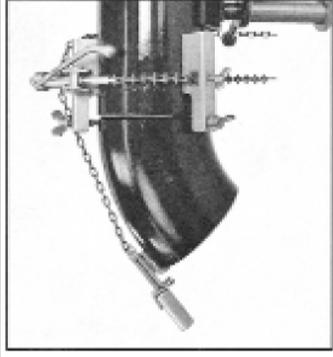
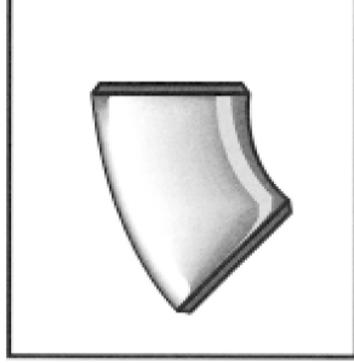
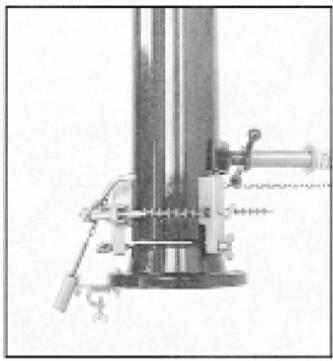
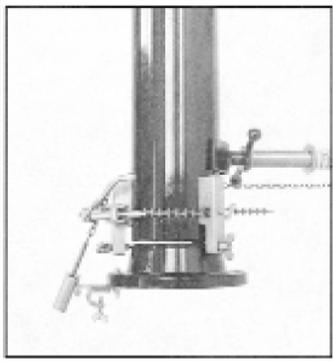
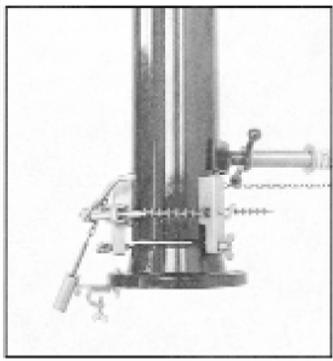


1-10" Pipe

SUMNER

Quick Reference Chart

These photographs illustrate various welding fit-ups using the Sumner Clamp Champ



These two fit-ups require the use of the optional Hold Down Device

