



IMPORTANT

DO NOT OPERATE THIS TOOL UNLESS THESE INSTRUCTIONS HAVE BEEN CAREFULLY READ AND UNDERSTOOD.

C165-A1 Remote Anodeless Riser Squeeze Off Tool

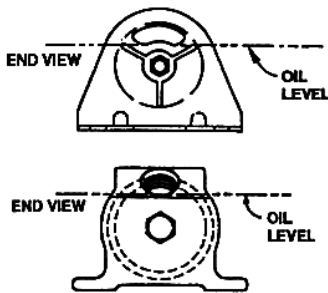
DO NOT OPERATE THIS TOOL UNLESS THESE INSTRUCTIONS HAVE BEEN CAREFULLY READ AND UNDERSTOOD

This Footage Tools' Hydraulic Squeeze Off Tool is offered with manual release only. The pump is also equipped with a needle valve, which can assist in preventing the tool from opening accidentally - turn clockwise to engage. **DURING SQUEEZING AND RELEASING PROCESS, THIS VALVE SHOULD BE KEPT OPEN MINIMUM TWO TURNS.**

The hand pump contains a 2-position control valve. Rotating the control valve lever (or knob) fully forward, will allow oil to be pumped through the hose into the tool to effect the squeeze operation. Similarly, rotating the control valve lever fully backward will allow oil to return from the tool to release (open) it. A bypass valve, set at 10,000 PSI, is built into the pump to prevent over-pressurization.



Preliminary Assembly:



1) Ensure the hand pump is filled with good quality, ISO 32 weight, hydraulic oil. To check or refill, connect the pump to the tool, retract the cylinder, and release system pressure. (Failure to follow this instruction may result in overfilling the reservoir – this could result in reservoir failure due to excessive pressure and possible injury.) Remove cap and fill to the indicated level with the pump level and resting horizontally on the base and recap. **Cleanliness is critical while checking and refilling. Use a funnel with a filter. Do**

not allow any dirt to enter the reservoir.

OPERATING INSTRUCTIONS:

NOTE: IF SIDE GUIDES ARE REQUIRED, SEE INSTALATION INSTRUCTIONS ON PAGE 4.

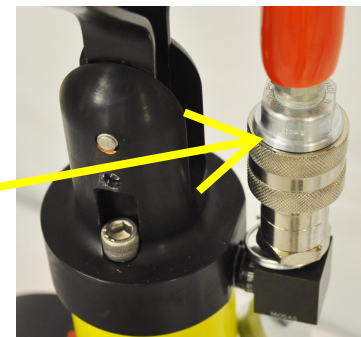
A) INSTALLATION ON PIPE

1) Inspect the tool to ensure that it is clean and free from any dirt that may hinder proper operation. Pay particular attention to the slot into the steel plate, where the sliding bar is guided (See Picture 1). It is critical that this slot is clean and free of debris. Clean if necessary.

2) Carefully inspect the hydraulic hose to ensure there are no cuts or leaks. Ensure the hydraulic coupling is clean and then connect the hydraulic hose from the hand pump to the squeeze off tool. (See Picture 2) To eliminate any possibility of accidental disconnection, your pump and tool are equipped with threaded union connectors. **Ensure the threaded collar is fully threaded on**, to enable pressure to reach the tool.



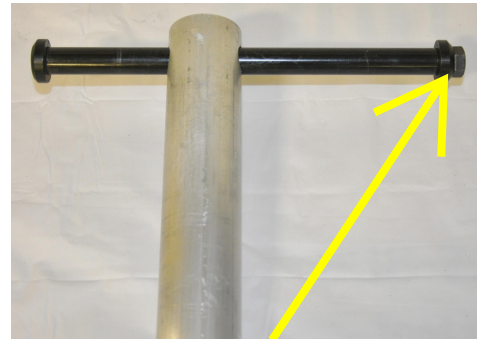
Picture 1



Picture 2

3) Open the tool by turning the pump control valve into the release position.

4) Install the twist bar into outside handle by removing the screw and washer from one end, insert it into the handle and secure it in place by the washer and screw. (See picture 3)



Picture 3

Set the position of the handle according to the position of the pipe to be squeezed – 0, 45 or 90 degree. (See Picture 4)



Picture 4

5) Set the length of the handle as follows: loosen the indexed handle, slide the outer pipe as much as necessary and lock it in the new position by tightening the indexed handle. (See Picture 5)



Picture 5

B) SQUEEZING THE PIPE

1) Position the tool centrally over the pipe to be squeezed, so that the pipe is in contact with the centering devices located on both sides of the tool. This will place the pipe in the middle of the jaws, which will provide a proper squeeze and will prevent damage of the tool.



Picture 6

2) Set the control lever on the hydraulic pump to the squeeze position and pump the handle to advance the squeeze bars toward the pipe. Ensure the tool remains positioned centrally and in perpendicular position over the pipe. If this is not done, tool and pipe damage may result. During the squeeze off, keep the tool at right angles to the pipe. (See Picture 6 & 7)



Picture 7

3) Continue squeezing the pipe until the flow is shut down. When squeezing a $\frac{3}{4}$ " SCH40 steel pipe, the hydraulic pressure **SHOULD NOT EXCEED 7500 PSI**. If this pressure is exceeded, the pipe may be cut and tool damage may result (*See Picture 8*). When squeezing 1" to 2" SCH40 steel pipe, the hydraulic pressure should be 10,000 PSI.

4) Perform desired work on the pipe.



Picture 8

C) RELEASING THE PIPE

With the pipe squeezed and the pump control valve in the squeeze position; very slowly turn the control valve towards the release position while watching the tool bars. As soon as the squeeze bars start to move, return the control valve to the squeeze position. This will stop the bars from releasing (*See Picture 9*). At this moment, any media left in the pipe will be released outside. If the flow stops shortly after this, the tool can be safely removed from the pipe. Leave the control valve in release position and allow the tool jaws to open. Once jaws are fully open, the tool should be in the most open position possible. Failure to fully open may be either from the return spring in the cylinder weakening with age or from an excessive quantity of oil in the pump reservoir.



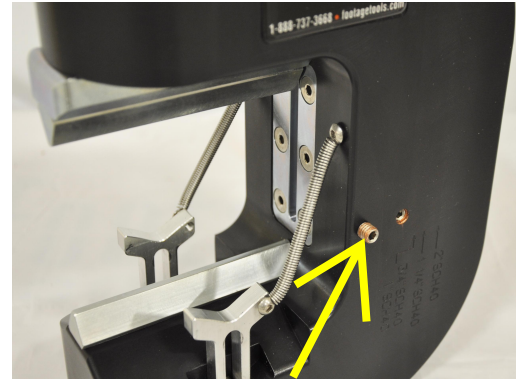
Picture 9

To remove the tool from the pipe, slide it backwards until it is no longer engaged with it. After this, the tool may be safely removed from the working area.

Preliminary assembly procedure for side guides.

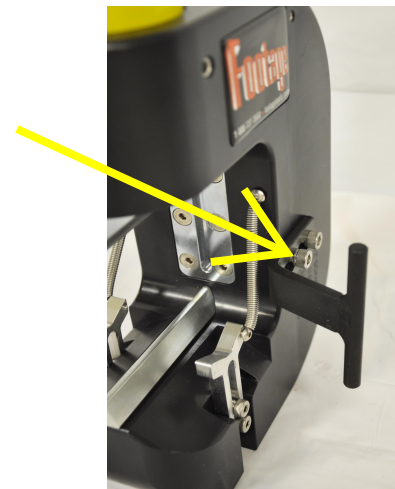
If side guides will be used (in case of key-hole application, etc.), please follow the instructions below for installation and proper setting.

1) If necessary, clean the holes and the socket portion of the Set Screws (item #29) prior to removal. Remove the Set Screws by using the 3/16" Allen Key provided (See *Picture #10*). Repeat this operation for the other side of the tool. After the Set Screws are removed, ensure the threaded holes are clean from any debris.



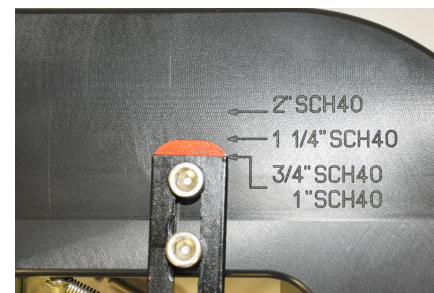
Picture 10

2) Install the side guide (item #36) over the tool (See *Picture #11*). Use the Socket Head Cap Screws (Item #37) and the 1/4" Allen Key provided, to secure in place. Repeat this step for the other side of the tool.



Picture 11

3) After both side guides are installed, the position of these requires to be adjusted according to the pipe size to be squeezed. To do this, first it is necessary to unscrew the Screws (Item #37) until the guide is free to slide. Identify the pipe to be squeezed. Set the guide so that the painted step aligns with the arrow coming from the engraving on the tool body which matches the pipe size (See *Picture #12*) - 1 1/4" SCH40 in this case. Repeat this operation for the other side of the tool.



Picture 12

NOTE: In any of the three positions, the head of one of the two screws on each side of the tool should match the appropriate counter bore into the guide.



WARNING:

Ensure both guides are installed in the same position, to prevent tool or pipe damage.

D) SAFETY PRECAUTIONS



WARNING:

When squeezing a 3/4" SCH40 steel pipe, **DO NOT** exceed the recommended 7500 PSI hydraulic pressure (See *Picture 13*). This may cut the pipe and cause damage to the tool.



Picture 13



WARNING:

When performing a squeeze, position the tool properly centered over the pipe, so the pipe will be in the middle of the jaws. If it is necessary to perform a squeeze on a pipe that was previously squeezed, position the tool far enough from the squeezed area, so that both centering devices are in contact with a round section of the pipe (See *Picture 14*).



Picture 14

WARNING:



Keep away from any high-pressure hydraulic leaks. A high-pressure jet of oil can cause serious injury. Repair immediately

IMPORTANT NOTE:

For squeezing all types and sizes of Anodeless Service Line Risers, the customer **SHOULD DETERMINE THE REQUIRED PRESSURES BEFORE HAND TO AVOID CUTTING THE PIPE.**

MAINTENANCE

This section contains maintenance instructions for the tool. Do not attempt any maintenance which you do not fully understand or that you cannot do accurately and safely with the tools and equipment available to you. If you encounter a problem that you do not understand or cannot solve, contact your Footage Tools dealer.

Ensure the tool is in good operating order by routinely:

Inspecting pump fluid level (See Preliminary Assembly)	Top up as needed
Lubricating pump pivot and rubbing points	Use #10 motor oil or grease. Do not use dry lubricants.
Bleeding air from hydraulic system.	Position tool lower than the pump. Without squeezing a pipe, open and close the tool several times to release any air into the reservoir. Top up the pump fluid level.
Draining, flushing and filling pump reservoir.	Remove filler cap, drain fluid. Remove tie rod nut and separate reservoir from pump body. Clean reservoir and filter in place. (Removing filter will result in breakage.) Reassemble, re-fill and re-cap.
Inspecting cylinder rod for damage.	Replace hydraulic ram if needed
Inspecting tool, pump, gauge and hoses for oil leakage.	Tighten, repair or replace as required
Inspecting squeeze bars for damage.	Replace if needed
Inspecting guiding plate for damage.	Replace if needed
Inspecting sliding bar connector for damage.	Replace if needed
Inspecting guiding plate slot for debris.	Ensure it is clean before each use.
Inspecting cylinder rod for dirt.	Clean as needed.

E) SPECIFICATIONS

GENERAL	C165
Max Steel SCH40 Pipe Diameter:	2"
Weight: tool including 14 ft handle	45 lbs.
Operating Pressure (max):	10,000 psig

OPTIONAL ACCESSORIES	
Extra-long 20' Hose	C177-20
Guide Stop Kit	C165-21K1
Needle Valve Kit	C165-23K

FOOTAGE TOOLS WARRANTY

FOOTAGE TOOLS INC, hereinafter sometimes referred to as "Manufacturer" warrants each new PE Pipe Squeeze Off Tool of its own manufacture to be free from defects in material and workmanship, under normal use and service for the life of the tool after delivery to the end user. **Warranty is void unless warranty registration card is completed in full and returned to FOOTAGE TOOLS INC within thirty days from the date of purchase.** This warranty and any possible liability of FOOTAGE TOOLS INC hereunder is in lieu of all other warranties, expressed, implied, or statutory, including, but not limited to, any warranties of merchantability or fitness for a particular purpose.

The parties agree that the Buyers SOLE AND EXCLUSIVE REMEDY against Manufacturer, whether in contract or arising out of warranties, representations, instructions, or defects shall be for the replacement or repair of defective parts as provided herein. In no event shall Manufacturers liability exceed the purchase price of the product. The Buyer agrees that no other remedy (including, but not limited to, incidental or consequential loss) shall be available to him. If, during the warranty period, any product becomes defective by reason of material or workmanship and Buyer immediately notifies Manufacturer of such defect, Manufacturer shall, at its option, supply a replacement part or request return of the product to its plant in Toronto, Canada. No parts shall be returned without prior written authorization and a return goods authorization number from Manufacturer, and this Warranty does not obligate the Manufacturer to bear any transportation charges in connection with the repair or replacement of defective parts. The Manufacturer will not accept any charges for labor and/or parts incidental to the removal or remounting of parts repaired or replaced under this Warranty.

This Warranty shall not apply to any part or product which shall have been installed or operated in a manner not recommended by FOOTAGE TOOLS INC, nor to any part or product which shall have been neglected, or used in any way which, in the manufacturers opinion, adversely affects its performance; nor negligence of proper maintenance or other negligence, fire, or other accident: nor if the unit has been altered or repaired outside of a FOOTAGE TOOLS INC authorized dealership in a manner of which, in the sole judgement of FOOTAGE TOOLS INC affects its performance, stability or reliability: nor to any product in which parts not manufactured or approved by FOOTAGE TOOLS INC have been used, nor to normal maintenance services or replacement of normal service items. Equipment and accessories not of our manufacture are warranted only to the extent of the original Manufacturers Warranty and subject to their allowance to us, if found to be defective by them.

The original purchaser, user is responsible for "downtime" expenses and all business costs and losses resulting from a warrantable failure. FOOTAGE TOOLS INC specifically disclaims any responsibility for any damages of any kind or description, whether to property or person, in any way connected with or arising out of the use of FOOTAGE TOOLS INC products.

FOOTAGE TOOLS INC reserves the right to modify, alter, and improve any product or parts without incurring any obligation to replace any product or parts previously sold with such modified, altered, or improved product or part.

No person is authorized to give any other Warranty, or to assume any additional obligation on the Manufacturers behalf unless made in writing, and signed by an officer of the Manufacturer.



IMPORTANT NOTICE

*Warranty registration
now available online.*

Please visit
www.footagetools.com
and click on
'warranty registration'.

54 Audia Crt. Unit #1
Vaughan, Ontario
Toll Free: 1-888-737-3668
www.footagetools.com



Model: _____

S/N: _____