

Owner's Manual

Footage

IMPORTANT

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



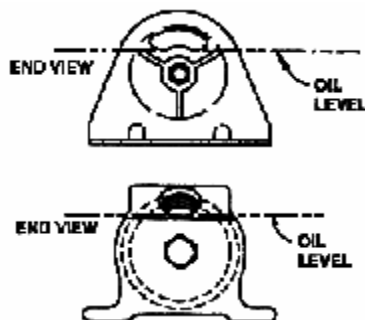
C170-A2 1/2" - 2" Hydraulic Steel Squeeze Off Tool

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

This Footage Tools' Hydraulic Squeeze Off Tool is offered in one operating configuration with manual release.

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.**

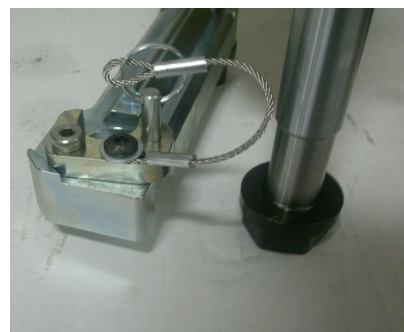
OPERATING INSTRUCTIONS:

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 bottom bar locking mechanism and hydraulic connections. (See *Picture 1*). Clean if necessary.

2) Carefully inspect the hydraulic hose on the pump kit, to ensure there are no cuts or leaks. Make certain 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 with our standard coupling, rotate the female connector collar to lock the coupling. **Ensure the threaded collar is fully threaded on**, to enable pressure to reach the tool.



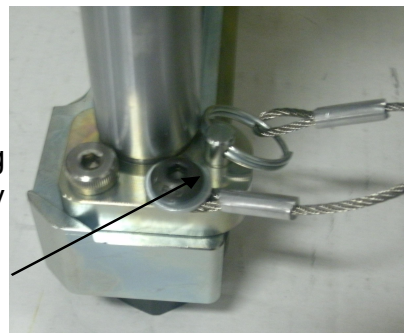
Picture 1



Picture 2

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

5) Lift the pin ring to open bottom bar, swing it to open position and place the tool over the pipe. Now swing bottom bar back into place and make certain the bar is fully engaged on the side shaft – Place the pin back in the locking position. (See *picture 3*).



Picture 3

B) SQUEEZING THE PIPE

1) Make sure the pipe is centrally located between the bars. Use the red arrow on the upper bar to help center the pipe (See *Picture 4*). This will ensure a proper squeeze and will prevent damage of the tool.

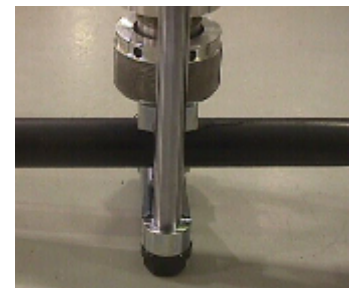


Picture 4

2) Turn the knob 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 5 & 6*)



Picture 5



Picture 6

3) Continue squeezing the pipe until the flow is shut down or until the bars came in contact with the safety stops. Note: once bars have reached the stops, DO NOT CONTINUE PUMPING, as damage to the tool may result.

4) Once the pipe has been squeezed completely, lock the bars together by threading the locking collar until it's secure to the upper shoulder ring (See *picture 7*).



Picture 7

5) The tool is now safely secured to the pipe and if required, the pump can be disconnected from the tool.

6) Perform desired work on the pipe.

C) RELEASING THE PIPE



Picture 8

- 1) If the hydraulic pump has been disconnected, re-connect, as per procedure section 2 form operating instruction. Once the hydraulic pump is securely attached, turn the safety locking collar counter clock-wise. Note: It may be necessary to apply hydraulic pressure on the tool, in order to free the locking collar. Once the collar is disengaged and it went all the way to the sliding bar, the releasing process can start (*See picture 8*).

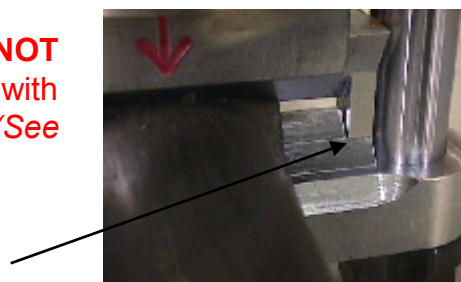
- 2) With the pipe squeezed and the pump control valve in the squeeze position, very slowly turn the control valve towards the release position while watching the tool bars. As soon as the squeeze bars start to move, return the control valve to the squeeze position. This will stop the bars from releasing (*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 decrease of nitrogen pressure in the cylinder with age or from an excessive quantity of oil in the pump reservoir.

To remove the tool from the pipe, pull the pin ring upwards and swing the bottom bar to disengage from the shaft. After this, the tool may be safely removed from the working area.

D) SAFETY PRECAUTIONS

WARNING:

When squeezing a $\frac{3}{4}$ " or 1" SCH40 steel pipe, **DO NOT** continue to squeeze after the bars came in contact with the safety stops. This may cause damage to the tool (See *Picture 9*).



Picture 9

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 at least 3 diameters (or minimum 5") from the previous squeeze, to ensure the tool will remain perpendicular to the pipe during the squeezing process (See *Picture 10*).



Picture 10

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.

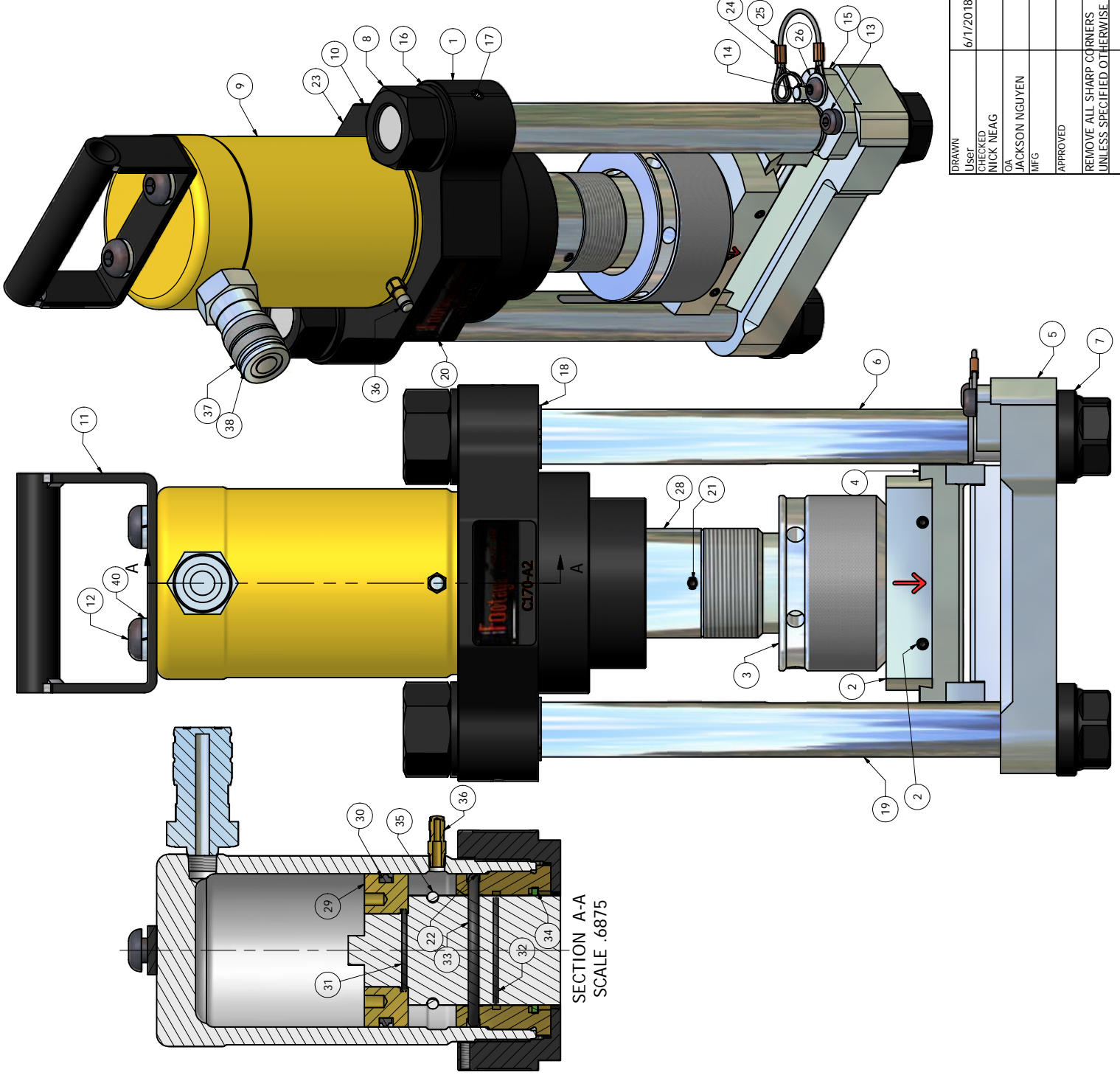
Ensure the tool is in good operating order by routinely:

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 locking mechanism for damage.	Replace if needed
Inspecting locking plunger for damage.	Replace if needed
Inspecting side shafts slots for dirt or debris.	Ensure they are clean before each use.
Inspecting cylinder rod for dirt.	Clean as needed.
Inspect returning feature in cylinder	fully open the tool from the closed position to ensure cylinder is retracting properly.

E) SPECIFICATIONS

GENERAL	C170
Max Steel SCH80 Pipe Diameter:	2"
Weight: tool	47 lbs.
Operating Pressure (max):	10,000 psig

OPTIONAL ACCESSORIES	
Extra-long 20' Hose	C177-20



Parts List

QTY	PART NUMBER	DESCRIPTION	ITEM
2	99-140-00-0008	1/2" Lock Washers	40
1	C170-BOX	TRANSP. CONTAINER	39
1	D30-300C	METAL DUST CAP	38
1	D-30-300	FEM HYD. CONNECTOR - THREADED	37
1	C600R-23	AIR NIPPLE, 1/8 NPT	36
1	C170-65	STEEL RING, 0.23 DIA X 1.95 O.D	35
1	C1200-1B	WIPER SEAL, AN23	34
1	99-490-00-0335	O-Ring # 335	33
1	99-490-00-0140	O-Ring #140	32
1	99-490-00-0128	O-Ring #128	31
1	C170-64	PISTON T SEAL FOR 3.125 CYL	30
1	C170-63	PISTON	29
1	C170-62	CYLINDER ROD	28
1	C170-61	CYLINDER CAP	27
1	99-141-00-1000	FLAT WASHER, 5/16 SMALL O.D	26
1	C365-29	LANYARD - FOR LOCKING PIN	25
1	99-104-00-0508	BHCS, 5/16-18 X 1/2" LG	24
1	LABEL-009	OWNER MANUAL LABEL	23
1	C170-67	#140 BACK UP RING	22
4	99-150-00-0406	SET SCREW, 1/4-20 X 3/8" LG	21
1	LABEL-012	LABEL, FOOTAGE DECAL	20
1	C170-60	SIDE SHAFT - LEFT	19
2	C170-59	RETAINER RING	18
2	99-150-04-0508	SET SCREW, DOG PT 5/16-18 X 1/2" LG	17
2	99-141-0M-0018	FLAT WASHER, 1.181 D X 1.96 O.D	16
1	C170-58	LOCKING PLATE	15
1	C170-57	O.R PIN, 5/16 X 1.0" LG	14
1	99-114-01-0504	SHOULDER BOLT, 3/8 X 1/2" LG	13
2	99-104-00-0812	BHCS, 1/2-13 X 3/4" LG	12
1	C170-09	HANDLE	11
2	99-150-00-0408	1/4-20 x 1/2 SET SCREW	10
1	C170-56	CYLINDER 39Tn	9
2	99-121-080017	1-1/8-12UNF, HEX NUT	8
2	C170-55	ROD NUT	7
1	C170-54	SIDE SHAFT - RIGHT	6
1	C170-53	BOTTOM JAW	5
1	C170-52	TOP JAW	4
1	C170-03	LOCKING NUT	3
1	C171-51	CYLINDER ROD EXTENSION	2
1	C170-50	TOP BAR	1

DRAWN	6/11/2018
USER	
CHECKED	
NICK NEAG	
QA	
JACKSON NGUYEN	
MFG	
APPROVED	
REMOVE ALL SHARP CORNERS UNLESS SPECIFIED OTHERWISE	
SCALE	NTS
DWG NO	C170-A2
REV	

FOOTAGE TOOLS INC.
C170-A2 ASSEMBLY DWG
2" SCH40/80 SQUEEZE OFF
TOOL

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: _____