Owner's Manual

C1200-A2 Hydraulic Squeeze Off Tool



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

SAFETY WARNING:

DO NOT OPERATE THESE TOOLS UNLESS THESE INSTRUCTIONS HAVE BEEN CAREFULLY READ AND UNDERSTOOD. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGES, INCLUDING WITHOUT LIMITATION DEFECTS, DETERIORATION, WEAR, ERROR, FAILURE OF THE SQUEEZE OFF TOOL, OR INJURY, INCLUDING WITHOUT LIMITATION DEATH AND INCAPACITATION. FOOTAGE TOOLS INC. EXPRESSLY DISCLAIMS ANY AND ALL LIABILITY FOR DIRECT, INDIRECT, INCIDENTAL, SPECIAL, BODILY, EXEMPLARY OR DAMAGES OF ANY KIND, WHETHER FORESEEABLE OR UNFORESEEABLE, ARISING OUT OR IN CONNECTION WITH THE FAILURE TO COMPLY WITH THIS OWNER'S MANUAL.

WARNING:

- DO NOT EXCEED THE RECOMMENDED SQUEEZE AND RELEASE RATES. TEMPERATURES BELOW 32°F. REQUIRE SLOWER SQUEEZES AND RELEASES. RELEASES ARE MORE CRITICAL THAN SQUEEZES; THUS, SLOWER RATES ARE REQUIRED.
- WHEN PERFORMING A SQUEEZE, STAY A MINIMUM OF 3 TIMES THE PIPE DIAMETER AWAY FROM FITTINGS, FUSIONS OR PREVIOUSLY SQUEEZED PIPE.
- ENSURE THE GROUNDING SYSTEM IS PROPERLY PLANTED IN THE SOIL TO REDUCE THE CHANCES OF STATIC DISCHARGE.
- DO NOT MODIFY OR ALTER THE TOOL IN ANY WAY. ONLY USE FOOTAGE TOOLS REPLACEMENT PARTS PROVIDED BY THE MANUFACTURER OR AUTHORIZED DISTRIBUTOR.
- USE EXTREME CAUTION WHEN OPERATING THE TOOL NEAR LIVE ELECTRICAL WIRES, BURIED UTILITIES, OR OTHER HAZARDS.
- IN CASE OF MALFUNCTION, IMMEDIATELY STOP USING THE TOOL AND CONTACT A QUALIFIED TECHNICIAN FOR INSPECTION AND REPAIR.
- WHEN OPERATING THIS TOOL, SAFETY EQUIPMENT, INCLUDING SAFETY GLASSES, ARE REQUIRED
- BEFORE PERFORMING A SQUEEZE, CLEAN THE POCKETS ON UNDERSIDE OF LOWER BAR AND WHERE THE SIDE SHAFT WILL CONTACT THE LOWER BAR. REINSPECT AFTER TOOL IS LOWERED INTO POSITION ON PIPE JUST PRIOR TO SQUEEZE

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SAFETY WARNING:

WARNING:

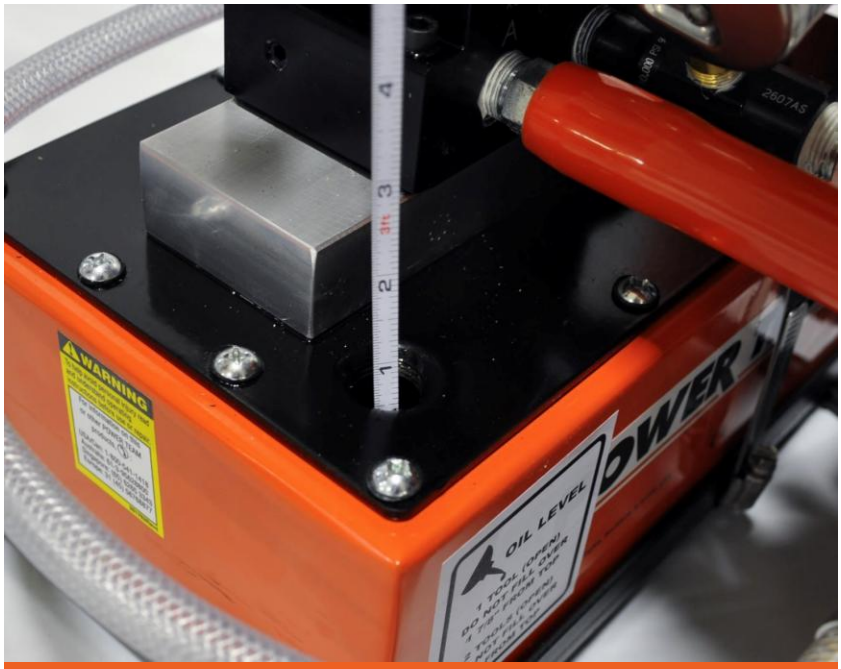
- FOR HYDRAULIC SQUEEZE TOOLS: INSPECT HYDRAULIC HOSES FOR SIGNS OF DAMAGE OR CUTS, REPLACE IF NECESSARY. ENSURE HYDRAULIC FITTINGS ARE FULLY ENGAGED
- BEFORE PERFORMING A SQUEEZE, ENSURE THE PIPE IS CENTRED BETWEEN SIDE SHAFTS AND THE TOOL IS IN AN UPRIGHT POSITION
- FOR HYDRAULIC SQUEEZE TOOLS: BEGIN TO ENGAGE THE SAFETY LOCK DOWN BOLTS WHEN THE UPPER BAR IS APPROXIMATELY ONE INCH FROM TOUCHING THE GAUGE STOP
- FOR HYDRAULIC SQUEEZE TOOLS: ENSURE YOU READ AND UNDERSTAND HOW TO OPERATE THE NEEDLE VALVE IF INSTALLED ON HYDRAULIC PUMP
- WHEN SQUEEZING HDPE PIPE, DUE TO THE NATURE OF THE MATERIAL, IT MAY BE NECESSARY TO DOUBLE SQUEEZE AND VENT TO ATMOSPHERE BETWEEN THE SQUEEZED SECTIONS IN ORDER TO ACHIEVE FLOW CONTROL
- KEEP AWAY FROM ANY HIGH-PRESSURE HYDRAULIC LEAKS. A HIGH-PRESSURE JET OF OIL CAN CAUSE SERIOUS INJURY. REPAIR IMMEDIATELY.

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This Footage Tools' Hydraulic Squeeze Off Tool is sold in one configuration; finely controlled release. This fine controlled unit has a needle valve with a built-in orifice in the high-pressure pump line. The tool is powered by an air operated, hydraulic pump which is a single speed pump that gives the high pressures needed to squeeze large diameter pipe. Requiring 40 to 120 psi air supply pressure to operate, this pump is safer than an electrically operated pump in the potentially explosive atmosphere near a gas main. The pump is equipped with an air filter/regulator/lubricator to ensure it will operate properly. Ensure the filter/regulator/lubricator is in good operating condition and filled with air tool oil. The pump contains a 3-position control valve. Pushing the control valve lever clockwise will allow oil to be pumped through the needle valve and to control the squeezing operation of the tool. Similarly, pulling the control valve lever fully counter-clockwise will allow oil to be pumped to release (open) the tool. The neutral position (center) will release any pressure that is in the hose. A bypass valve, set at 10,000 PSI, is built into the pump to prevent over-pressurization.

PRELIMINARY ASSEMBLY:

1. Ensure the 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 the fill cap venting excessive oil and creating a spill.) When tool is in the open position (tool is shipped in this position) and pump on level surface and resting horizontally on the base, remove cap and fill up to 1-1/4" from the bottom. Use screwdriver or rod to check oil level. (When using one pump with two tools, please contact Footage for more information). Cleanliness is critical while checking and refilling oil. Use a funnel with a filter. Do not allow any dirt to enter the reservoir.



HYDRAULIC PUMP OIL LEVEL

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PRELIMINARY ASSEMBLY:

2. If motion of the tool seems jerky, bleeding air from the system may be necessary. To accomplish this, join the two hoses together, eliminating the tool as shown in the photo. Ensure the reservoir oil is topped up. Fully open needle valve by turning knob counterclockwise. Place the pump control valve to "squeeze" and pump for 2 minutes. Place the pump control valve to "Release" and pump for 1 minute. Return the valve to the "Neutral" position. Disconnect the hoses and assemble them to the tool. Pressurize the tool in the "squeeze" mode for 5 minutes. Cycle the tool fully open, to fully closed, a few times. Repeat if necessary. Ensure the reservoir is topped up again, having the tool in the closed position.



BLEEDING OF THE HYDRAULIC SYSTEM

3. To connect the C615-HD110 static grounding kit, mount the grounding tool lead to the squeeze off tool in the ¼" X 20 tapped hole on the left side of the upper bar using the supplied ¼" hardware. This hole is located on the upper bar, below and to the left of the "Footage Tools" name plate as shown on the photo below.



LOCATION OF GROUNDING SPIKE

NOTE: Item #11 (Hex Bolt) is pre-calibrated at the factory for proper operation of the tool and it should NOT be tightened.

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OPERATING INSTRUCTIONS:

A. Installation of Pipe

⚠ **WARNING:** Inspect the tool to ensure that it is clean and free from any dirt that may hinder proper operation. Pay particular attention to the locking mechanism on the lower bar where the side shaft engages. It is critical that bar is clean and free of debris. Clean if necessary.

1. Fully install the grounding spike in firm soil near the tool and work area. Moist soil is required to ensure good contact to ground. Soak the area, if necessary, where the spike will be inserted. This is critical as this grounding system should remove any static electric charge that is created when the flow of gas is cut-off during the squeeze operation, thereby reducing the chances of sparks being created.

2. Ensure the hydraulic couplings are clean and connect the two hoses from the pump to the squeeze off tool. Notice the hoses have a male and female end attached to them that fit with mating parts on the squeeze off tool, so the hoses cannot be connected incorrectly.

⚠ **WARNING:** To eliminate any possibility of accidental disconnection, the threaded collar must be fully threaded on, to enable pressure to reach the tool - tighten fittings until you can no longer see ORANGE paint on the inside collar.

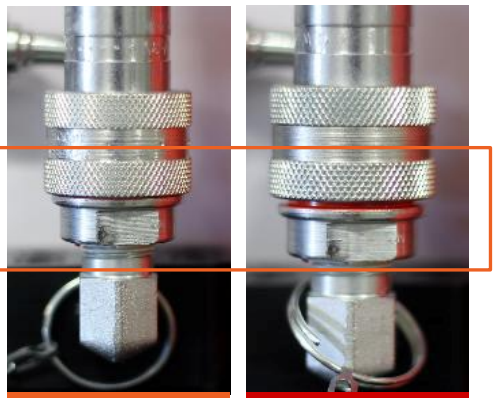
3. Open the tool by placing the pump control valve in the release position. Caution: Ensure the needle valve is fully open. Pump until the squeeze bars are sufficiently open to allow the pipe to be inserted. Once the tool is fully open, do not continue to pump. Continuing to pump will cause hydraulic oil to be vented from the relief valve to prevent tool damage.



LOCKING DEVICE & SLOT



ATTACHMENT OF HYDRAULIC COUPLING



CORRECT | INCORRECT

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OPERATING INSTRUCTIONS:

A. Installation of Pipe

4. Lift the hitch pin and swing the lower bar out and place the squeeze off tool over the pipe. Swing back the lower bar and lock into position over the rod nuts on the cylinder rods. Full engagement is critical, or tool damage may result. The operator should visually check to ensure that the pin has engaged in the slot of the bar so that the locking plate will hold the lower bar in the closed position. The hitch pin should be in the closed position and there should not be any gap between the side shaft and the lower bar. This is important so that the tool cannot open accidentally and ensure that there is equal load on both sides. Failure to comply with this step may result in tool damage.



LIFT HITCH PIN



LOWER BAR IN CLOSED POSITION

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OPERATING INSTRUCTIONS:

B. Squeezing the Pipe

1. Set the gauge plate stops on each side of the unit to the proper pipe size and SDR setting. (Ensure both sides are identical, or tool damage may result.) Position the stops on the gauge plates such that they face the other squeeze bar.

2. Close the needle valve and move the control lever on the pump to the squeeze position.

3. Close the tool with the pump until the bars start to touch the pipe. Position the tool centrally on the pipe and ensure the squeeze bars sit perpendicular to the pipe when viewed from the top. The arrow on the upper bar indicates the central position. If this is not done, satisfactory flow control may not be achieved.

4. The rate of squeeze is very important in preventing pipe damage. Do not exceed 2” per minute squeeze rate. The pump does not exceed the prescribed 2” per minute squeeze rate. Consult your local utility for their specific recommendations regarding the prescribed squeeze rate.

5. Continue slowly squeezing until the gauge plate stops just come in contact with the upper bar. Slower rates should be used below 32°F (0°C).

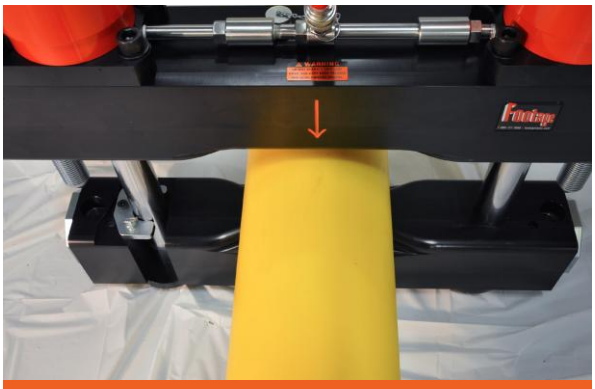


GAUGE PLATE

⚠ **WARNING:** DO NOT CONTINUE TO SQUEEZE ONCE THE GAUGE STOPS HAVE BEEN REACHED OR TOOL DAMAGE MAY RESULT. Because of the size and power of this tool (312,000 Lb-force), it is important to stop squeezing when the gauge plates reach the contact plate (on the upper bar).

Keep in mind, it may not be necessary to squeeze the pipe all the way to the gauge stops to obtain satisfactory flow control

NOTE: TOOL MAY NOT GIVE ADEQUATE FLOW CONTROL ON HIGH DENSITY PIPE.



POSITION TOOL CENTRALLY ON PIPE

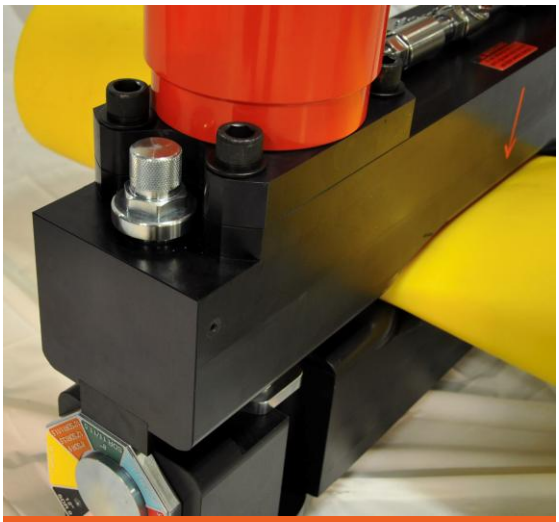
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OPERATING INSTRUCTIONS:

B. Squeezing the Pipe

WARNING: LOCK-DOWN BOLTS

This hydraulic squeeze off tool features a steel lock down bolt at each end of the upper bar, to allow the tool to be locked on a squeeze and the hydraulics detached or if hydraulic pressure is lost with a minimum loss of flow control. To engage, screw the bolts into the lower bar. The bolts need only be tightened by hand, not with a wrench. They are not intended to assist in squeezing the pipe. The squeeze off tool has more than enough power available to satisfactorily squeeze the pipe. Start threading the lock down bolts into the lower bar as the squeeze nears completion; when the lock down bolts start to lift along with the lower bar (approximately 1" before reaching the gauge stop), to assist alignment into the steel barrel nuts in the lower bar. Thread the bolts as the tool continues to squeeze the pipe. Once the tool has reached the stops on both sides, the lock down bolts should be completely threaded until the hex end is flush with the upper bar.



ENGAGEMENT OF LOCK DOWN BOLTS

DISCONNECTING HYDRAULIC PUMP KIT

Once the tool has achieved satisfactory flow control and the lock down bolts are fully engaged, it is now safe to remove the hydraulic pump kit. First, make sure the pressure is released from the hydraulic system, by cycling the control lever from squeeze to released position twice, and stop it in neutral. Once the system is neutralized, both hydraulic fittings can be removed. Should the operator wish to re-connect to another tool, please refer to instructions on page #4. (Contact Footage Tools if one pump is being use for two tools.)

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OPERATING INSTRUCTIONS:

C. RELEASING THE PIPE

1. Unscrew the lock down bolts located at each end of the squeeze bars. To relieve the upward tension caused by the pipe's tendency to rebound, it may be necessary to place the pump control valve in the “squeeze” position and apply additional pressure to the tool. If the lock down bolts are difficult to loosen by hand, a wrench may be used to assist in removal.

⚠ **WARNING:** To avoid any damage to the pipe, it is critical to achieve a slow and controlled release rate. A release rate of ½” per minute is recommended as this allows the pipe’s plastic material to "flow" gradually, minimizing the risk of pipe damage. In temperatures below 32°F (0°C), an even slower rate should be used. Always consult your local utility for their specific guidelines and prescribed release rate recommendations.

⚠ **WARNING:** Ensure the needle valve is fully closed. Move the pump control valve position from "squeeze" to "neutral". As this is done, the tool will start to open immediately. Should the operator want to stop the release, return the pump control valve handle to the squeeze position. The orifice in the needle valve controls the release rate. As the pipe opens, the pressure in the tool will decrease and the release rate will slow down. Once the pipe is sufficiently relaxed and the tool does not open any further, the operator can then fully open the needle valve to raise the bars more rapidly for a complete release.
If the needle valve is opened too early, a large amount of oil will enter the pump and cause it to overflow. This may result in seal damage to the pump. Switch the pump control valve handle to the release position and start to pump.
Continue to open the tool until it can be removed from the pipe. Once the tool is fully open, do not continue to pump. Continuing to pump will cause hydraulic oil to be vented from the relief valve to prevent tool damage.

2. To remove the tool from the pipe, let the upper bar rest against the pipe. Pull and hold up the hitch pin then rotate the lower bar clear of the pipe. The tool may now be lifted clear of the pipe. Be aware that the balance of the tool will shift because of the change in position of the lower bar.

3. If re-rounding of pipe is not to be performed, the grounding spike may now be removed and the tool can be repacked into its shipping container. Ensure the tool is in the open position (the approximate gap between the two squeeze bars should be 12-13” before repacking into its shipping container).

D. RE-ROUNDING THE PIPE, IF REQUIRED

Once the tool is fully open reposition the tool 90° from the original squeeze on the top of the peaks of the squeeze. Squeeze the pipe back to its original shape as outlined in “Installation on Pipe” and “Squeezing the Pipe” detailed above. Consult your local utility for their specific recommendations regarding this procedure. The grounding spike may now be removed, and the tool can be repacked into its shipping container, in the open position (the approximate gap between the two squeeze bars should be 12-13” before repacking into its shipping container).

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MAINTENANCE

This section contains maintenance instructions for the tool. Do not attempt any maintenance which you do not fully understand, nor 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 checking the following:

Inspect pump fluid level (See Preliminary Assembly)	*Top up as needed.*
Inspect cylinder rods for dirt and damage.	*Clean and lubricate, or replace if needed.*
Inspect tool, pump, valves and hoses for oil leakage.	*Tighten, repair or replace as required.*
Inspect squeeze bars for damage.	*Replace if needed.*
Inspect the lower squeeze bar pockets for dirt and debris.	*Clean as needed.*
Inspect lock down bolts for damage.	*Replace if needed.*
Inspect Gauge Plates for dirt or damage.	*Clean or replace as needed.*
Inspect the rod nuts for dirt and damage.	*Clean, repair or replace as needed.*

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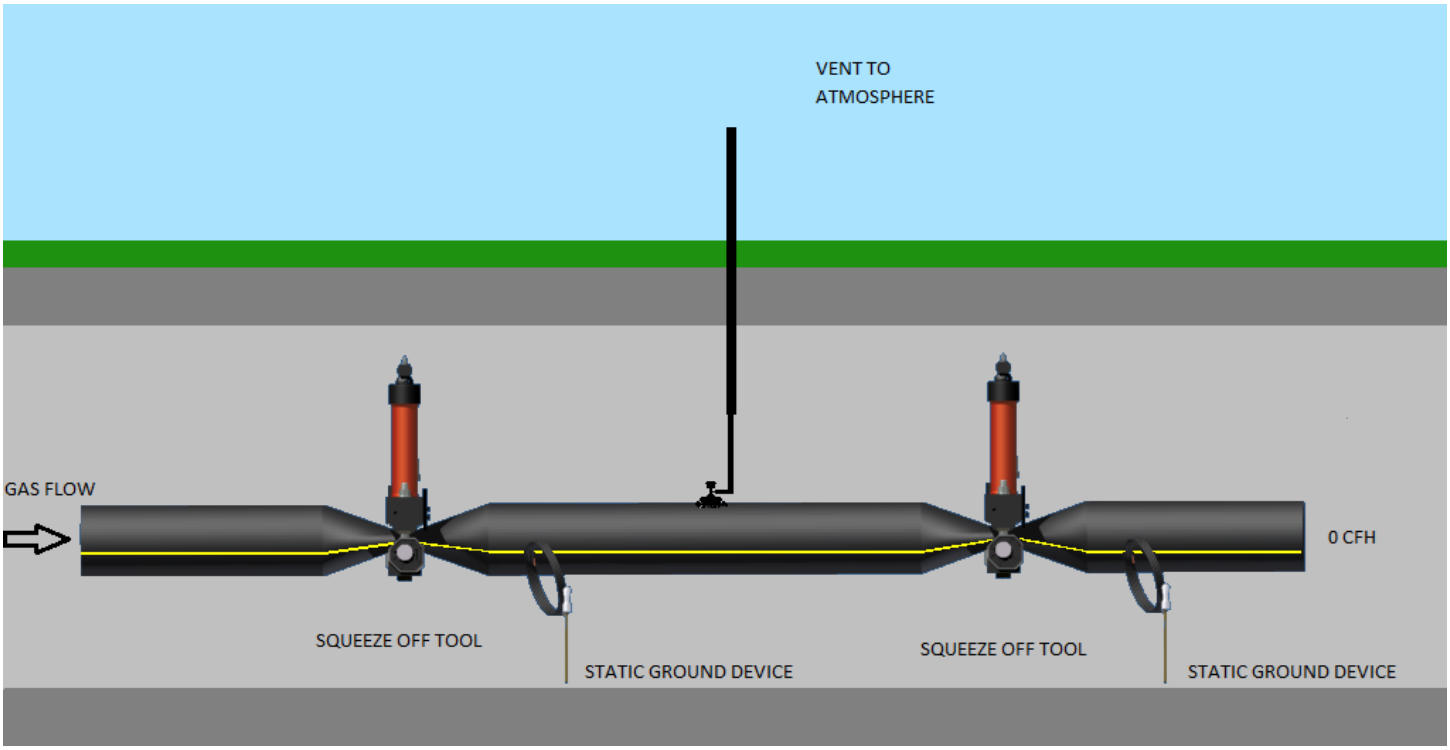
SPECIFICATIONS

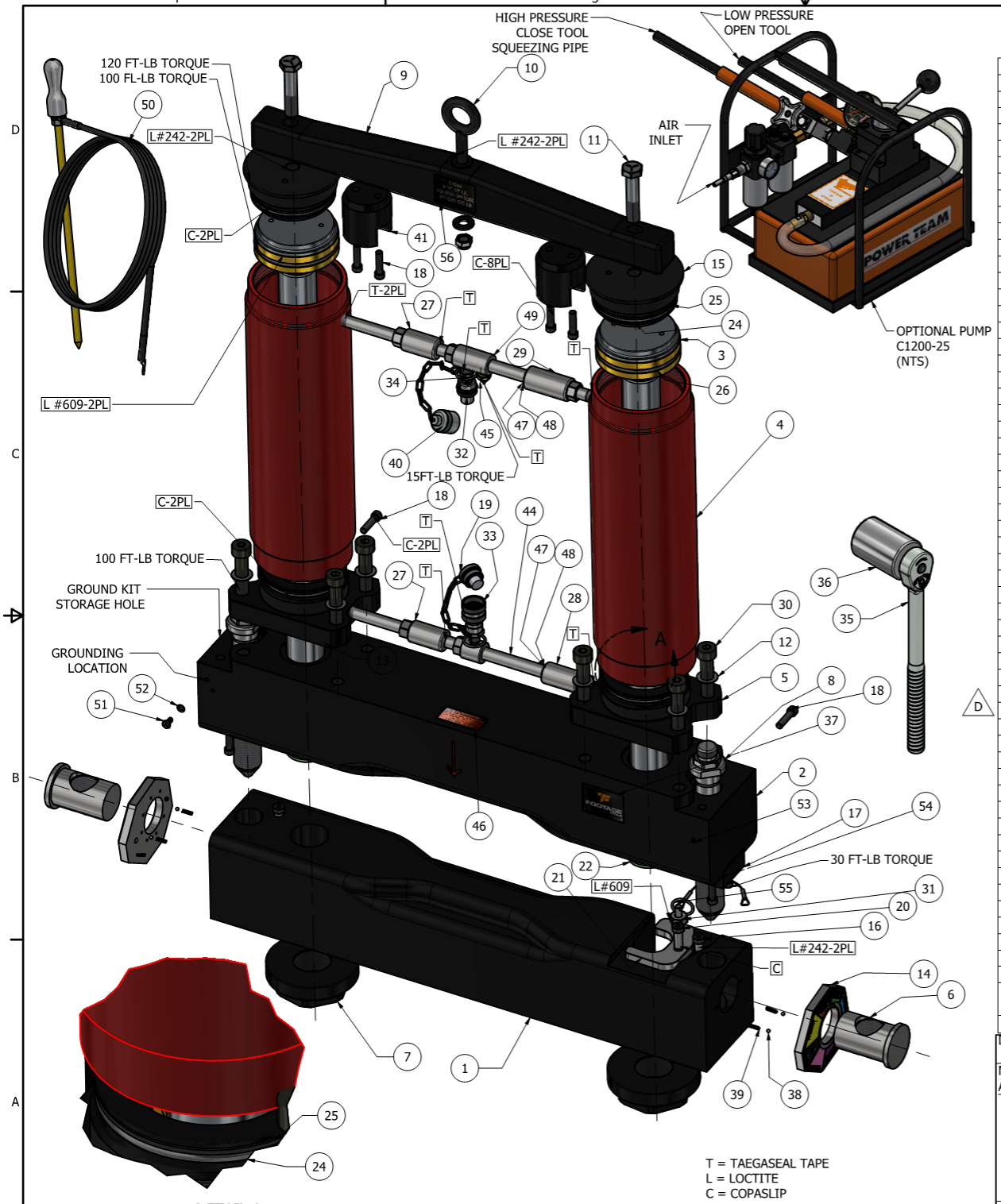
GENERAL	*C1200*
Max Pipe Diameter:	*12”*
Weight:	*525 lbs.*
Operating Pressure (max):	*10,000 psi*
OPTIONAL ACCESSORIES	
Grounding Spike Kit (5 or 10 foot)	*C615-A105/C615-A110*
Grounding Spike Kit (5 or 10 foot) – Heavy Duty	*C615-HD105/C615-HD110*
Accessory Kit *(pump, 20’ hoses, needle valve w 0.009” orifice, 10,000 psi gauge, air filter/regulator/lubricator & box)*	*C1200-25*

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IMPORTANT NOTICE:

If you experience difficulty obtaining flow control when squeezing HDPE pipe, we recommend you perform a double squeeze and vent to atmosphere. Please consult your local Utility for their specific operating procedure.





REVISION HISTORY				
REV	DESCRIPTION	ECN	DATE	APPROVED
D	QUANTITY 10 WAS 8 FOR ITEM #18	2114	24AP24	AE

ITEM	PART NUMBER	DESCRIPTION	QTY	MASS
1	LABEL-026	WEIGHT LABEL - C1200	56	0.013
1	C200-22	KEY RING	55	0.014
1	C200-19	HITCH PIN & LANYARD	54	0.015
1	99-155-00-0409	PLUNGER, 1/4-20 X 0.56"LG	53	0.001
1	99-140-00-0004	WASHER, HELICAL, SPRING LOCK 1/4"	52	0.000
1	99-100-00-0404	SCREW, CAP, HEX, 1/4-20X0.5 LG	51	0.002
1	C615-HD110	H.D GROUNDING ROD AND CABLE ASSEMBLY 10 FT	50	0.724
1	C1200-52	HYD. MANIFOLD - LOW PRESSURE	49	0.186
2	C1200-51	BACK UP RING FOR O-RING#116	48	0.02
2	99-490-00-0116	O-RING #116, 90 DURO	47	0.025
1	LABEL-008	WARNING LABEL - OWNERS MANUAL	46	0.010
1	C648-50	PRESSURE RELIEF VALVE	45	0.010
1	C1200-49	HYD. MANIFOLD	44	1.231
1	C1200-BOX	CONTAINER FOR C1200 - BOX (NOT SHOWN)	43	
1	C1200-BASE	CONTAINER FOR C1200 - BASE (NOT SHOWN)	42	
2	C1200-28	HOSE GUARD - ROUND	41	1.267
1	D-31-300C	METAL DUST CAP FOR MALE	40	0.217
4	C100-21	SPRING	39	0.001
4	99-157-00-0006	CHROME BALL 3/16	38	0.000
1	LABEL-011	LABEL, FOOTAGE NAME PLATE	37	0.016
1	C1200-46	1-1/2 SOCKET	36	2.148
1	C1200-45	RATCHET	35	0.295
1	99-200-00-0606	NIPPLE, 3/8 MNPT X 3/8 MNPT	34	0.010
1	D-30-300	HYD. FEMALE CONNECTOR - THREADED	33	0.535
1	D-31-300A	HYD. MALE CONNECTOR - THREADED	32	0.243
1	C1200-78	GUIDE SCREW	31	0.103
8	99-107-00-1224	SHCS 3/4-16 X 3 LG	30	0.530
1	C1200-48	HYD. MANIFOLD - LOW PRESSURE	29	1.102
1	C1200-42	HYD. MANIFOLD - HIGH PRESSURE	28	0.796
2	C1200-47	HYD. MANIFOLD	27	1.249
2	C1200-17	PISTON SEAL TPO 47	26	0.027
4	C1200-16	BACK-UP RING #425	25	0.015
4	99-490-90-0425	O-RING #425 90 DURO	24	0.027
2	C1200-15	ROD SEAL TRO29 (NOT SHOWN, INSIDE ITEM #5)	23	0.008
2	C1200-18	WIPER SEAL AN-23	22	0.007
1	C1200-10	LOCKING PLATE	21	1.060
1	99-114-00-0610	SHOULDER BOLT 1/2 X 1.25	20	0.014
1	D-30-300C	METAL DUST CAP FOR FEMALE CONNECTION	19	0.331
10	99-106-00-0624	SHCS 3/8-16 X 1.5 LG	18	0.066
2	C1200-14	CONTACT PLATE	17	0.923
2	99-114-00-0522	SHOULDER BOLT 3/8 X 2.75	16	0.200
2	C1200-11	CYLINDER CAP - TOP	15	4.258
2	C1200-09	GAUGE PLATE	14	2.769
2	C1200-04	CYLINDER ROD	13	36.700
8	C1200-50	WASHER, FLAT, BLACK CHROMATE 3/4	12	0.001
2	C1200-43	HEX BOLT 3/4-10UNC X 3.5 LG - BLACK CHROMATE	11	0.071
1	C1200-44	LIFTING EYE ASSEMBLY	10	0.782
1	C1200-13	HANDLE	9	12.168
2	C1200-07	LOCK DOWN BOLT - 12"	8	6.535
2	C1200-06	ROD NUT	7	8.485
2	C1200-08	BARREL NUT	6	3.133
2	C1200-05	CYLINDER CAP - BOTTOM	5	6.582
2	C1200-03	CYLINDER BODY	4	56.239
2	C1200-12	PISTON ASM	3	8.815
1	C1200-02	UPPER BAR	2	100.669
1	C1200-01	LOWER BAR	1	95.377

Parts List

DRAWN	nguyenj	2009-07-01
MANUFACTURING APPROVAL		

TOLERANCES:

TIR	0.004
RMS	63 MAX
.X	± .02
.XX	± .01
.XXX	± 0.005

MASS: N/A

SCALE: 1 / 4.5

SIZE: C

FOOTAGE TOOLS

TITLE

C1200-A2 ASSEMBLY DWG
12" HYD. SQUEEZE OFF TOOL

DWG NO: C1200-A2

REV: D

REMOVE ALL SHARP CORNERS UNLESS SPECIFIED OTHERWISE

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FOOTAGE TOOLS INC. WARRANTY

FOOTAGE TOOLS INC, hereinafter sometimes referred to as "Manufacturer" warrants each new industrial product of its own manufacture to be free from defects in material and workmanship, under normal use and service for the life of the tool. **Warranty is void unless warranty registration form is completed either online or manually and returned to FOOTAGE TOOLS INC. within thirty (30) days from the date of purchase.** This warranty and any possible liability of **FOOTAGE TOOLS INC.** hereunder are 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, in 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. The Buyer expressly acknowledges that this Limited Lifetime Warranty does not apply to any part or product not directly purchased from the Manufacturer

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.