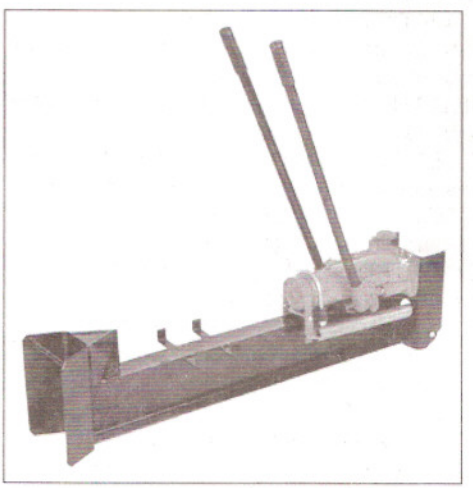
Assembly & Instruction Manual

LOG SPLITTER 10T

Model 4551



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INDUSTRIAL TOOLS

THANK YOU FOR BUYING CUMMINS INDUSTRAL TOOLS

Your new log splitter has been engineered and manufactured to CUMMINS's high standards for dependability, ease of operation, and operator safety properly cared for, it ill give you years for ruged, trouble-free performance

⚠ WARNING

To reduce risk of injury,everyone using,installing, repairing,maintaining,changing accessories on,or working near this tool must read and understand these instructions before performing any such task.

⚠ CAUTION: Carefully read through this entire operator's manual before using your new machine

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Pay close attention to the rules for safe operation, warnings and cautions. If you use your machine properly and only for what it is intended, you will enjoy years of safe, reliable service. Thank you again for buying CUMMINS TOOLS.

SAVE THIS MANUAL FOR FUTURE REFERENCE

SPECIFICATIONS

Maximum Log Length	18"
Ram Stroke	8-1/16"
Cradle Dimensions	3-3/4"x4"x4"
Base Dimensions	42-1/8"L x 8-1/16"W x 37"H

SAFETY WARNING&CAUTIONS

WARNING:when using pneumatic equipment,basic safety precautions should always be Followed to reduce the risk of personal injure and hazards due to over pressurization.
READ ALL INSTRUCTIONS BEFORE USING THIS TOOL!

1. KEEP WORK AREA CLEAN. Cluttered areas invite injuries.
2. OBSERVE WORK AREA CONDITIONS. Do not use tools in damp, wet, or poorly lit locations. Don't expose to rain. Keep work area well lit. Do not use electrically powered air compressors in the presence of flammable gases or liquids.
3. KEEP CHILDREN AWAY. Children must never be allowed in the work area. Do not let them handle machines, tools, or hoses.
4. STORE IDLE EQUIPMENT. When not in use, tools must be locked up in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. DO NOT FORCE THE TOOL. It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool's capacities.
6. USE THE RIGHT TOOL FOR THE JOB. Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. Do not use a tool for a purpose for which it was not intended.
7. DRESS PROPERLY. Do not wear loose clothing or jewelry as they can be caught in moving parts. Non-skid footwear is recommended. Wear restrictive hair covering to contain long hair.
8. USE EYE AND EAR PROTECTION. Always wear ANSI approved chemical splash goggles when working with chemicals. Always wear ANSI approved impact safety goggles at other times. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
9. DO NOT ABUSE THE POWER CORD. Do not yank compressor's cord to disconnect it from the receptacle. Do not carry tools by the cord.
10. DO NOT OVERREACH. Keep proper footing and balance at all times. Do not reach over or across running machines.
11. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect compressor's cord periodically and, if damaged, have them repaired by an authorized technician. Inspect all hoses for leaks prior to use. The handles must be kept clean, dry, and free from oil and grease at all times.

12. REMOVE ADJUSTING KEYS AND WRENCHES. Make it a habit to check that keys and adjusting wrenches are removed from the tool or machine work surface before plugging it in.
13. AVOID UNINTENTIONAL STARTING. Do not carry any tool with your finger on the trigger, whether it is connected to the compressor or not.
14. STAY ALERT. Watch what you are doing, use common sense. Do not operate any tool when you are tired.
15. CHECK DAMAGED PARTS. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn on and off properly.

16. REPLACEMENT PARTS AND ACCESSORIES. When servicing. Use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.

17. DO NOT OPERATE TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
18. DRAIN COMPRESSOR EVERY DAY. Do not allow moisture to build up inside the compressor. Do not allow compressor to sit pressurized for longer than one hour.
19. MAKE SURE ALL EQUIPMENT IS RATED TO THE APPROPRIATE CAPACITY. Make sure that regulator is set at least 10 PSI lower than the lowest rated piece of equipment you are using.

ASSEMBLY

Your Hydraulic Log Splitter comes assembled. Unpack the Log Splitter near where you will be using the tool. The Log Splitter is heavy, use proper lifting techniques when moving the Log Splitter.

To complete assembly, insert one OPERATING LEVELER (#54) into each SOCKET(#17) as shown in Figure 1.

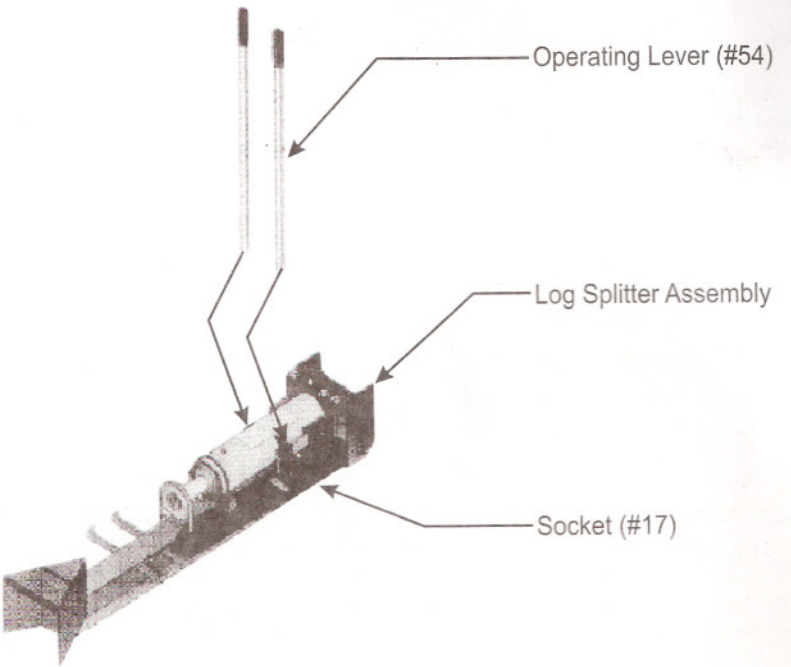

Figure 1 - Operating Lever Installation

Your Hydraulic Log Splitter is ready for use.

OPERATION

Step 1: Gather the logs you wish to split. Make sure the maximum length of each log close not exceed 18-1/2". If the log does exceed that measurement. You must cut the log to fit the maximum length of tool.

Step 2: Make sure the PISTON ROD(#3) is fully retracted into the Cylinder (#2).If necessary, turn the RELEASE SCREW(#29) counterclockwise to release the hydraulic pressure. Tighten the RELEASE SCREW.

Step 3: Place the Log between the wedge and the piston assembly. Rest the log in the metal bracket Cradle.

Step 4: Wear eye protection when operating the Hydraulic Log Splitter.

Step 5: It is recommended you operate the Log Splitter in the following manner. Grip on OPERATING LEVER(54) in each hand and pump the OPERATING LEVERS in a back and

forth motion with one OPERATING LEVER fully forward and one fully rearward as shown in Figure 2.

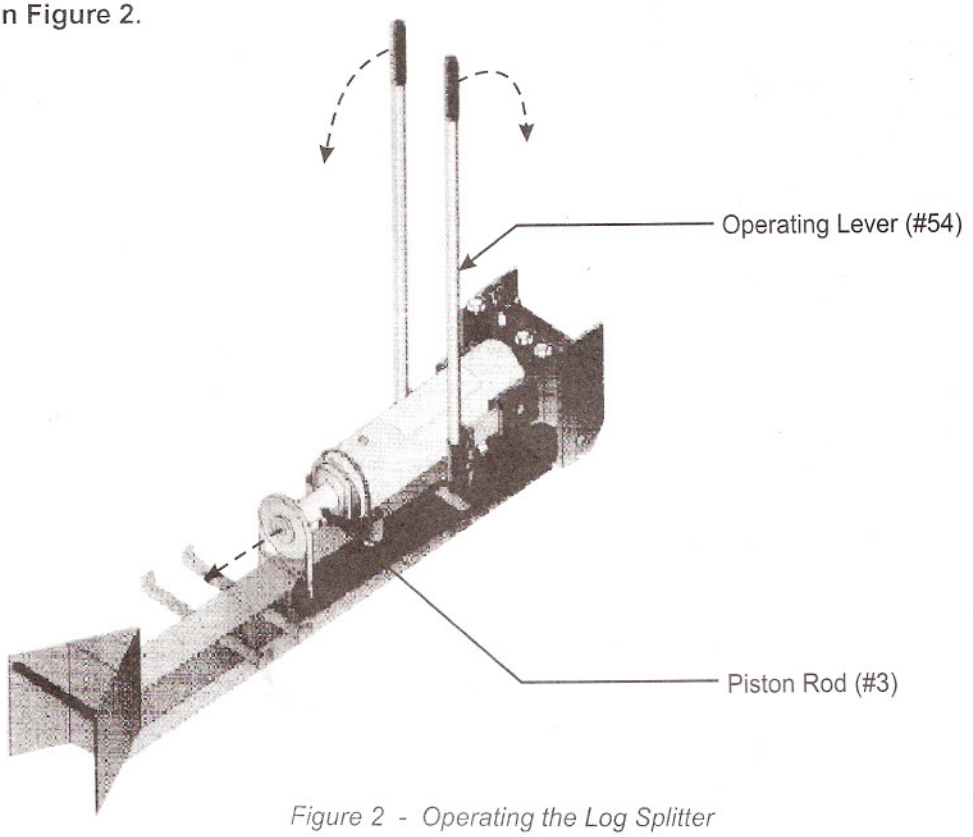

Figure 2 - Operating the Log Splitter

Step 6: Repect Step 5 to advance the PISTON ROD forward. This will push the log against the Wedge and split it.

Step 7: When you have split the log, remove the split pieces.

Step 8: Turn the RELEASE SCREW counterclockwise to draw the PISTON ROD back into the CYLINDER as shown in Figure 3. Tighten the RELEASE SCREW when the PISTON ROD has retracted fully.

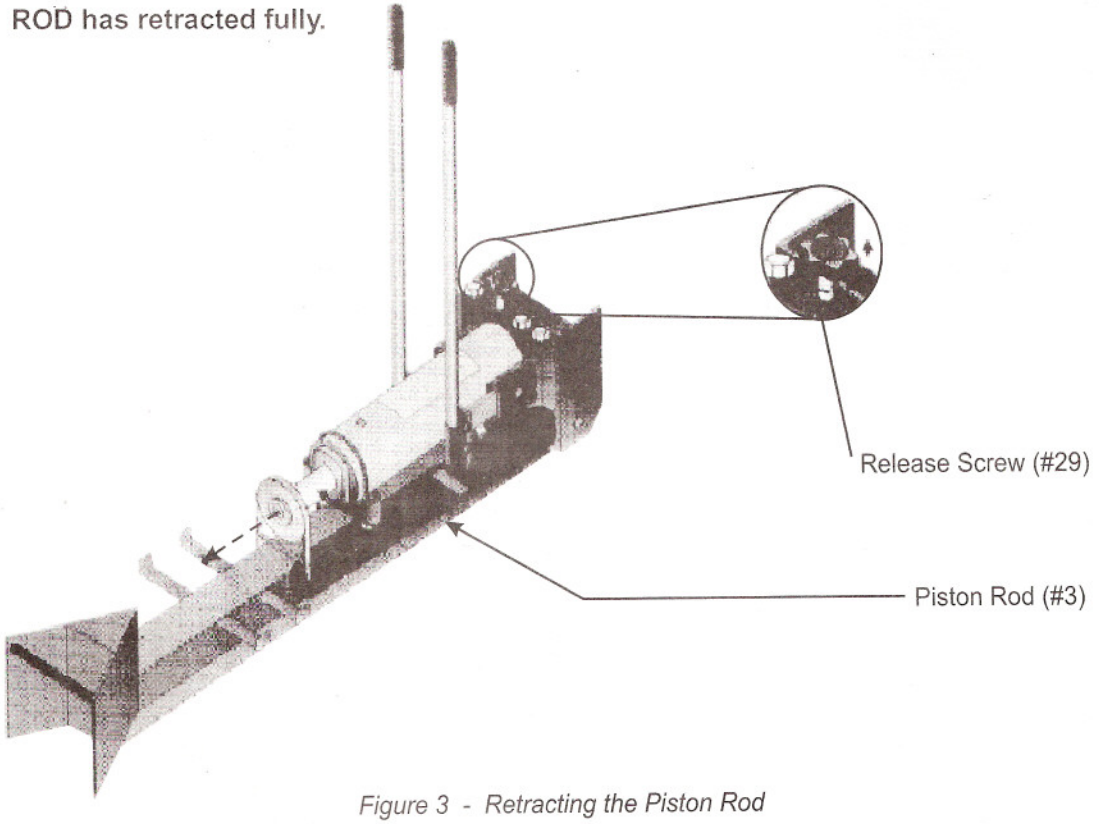

Figure 3 - Retracting the Piston Rod

Step 9: Continue to repeat Steps 3 through 8 until you have split all the logs.

Step 10: When you are done, it is recommended that you store your Hydraulic Log Splitter with the RELEASE SCREW opened to relieve any hydraulic pressure during non-use.

MAINTENANCE

After every use, wipe down the Hydraulic Log Splitter to remove any tree sap or dirt left behind. This will extend the life of the tool.

Bleeding the Log Splitter

Step 1: Operate the Log Splitter to extend the PISTON ROD (#3) to its maximum length.

Step 2: Remove the OIL FILLING PLUG (#55) as shown in the Figure 4.

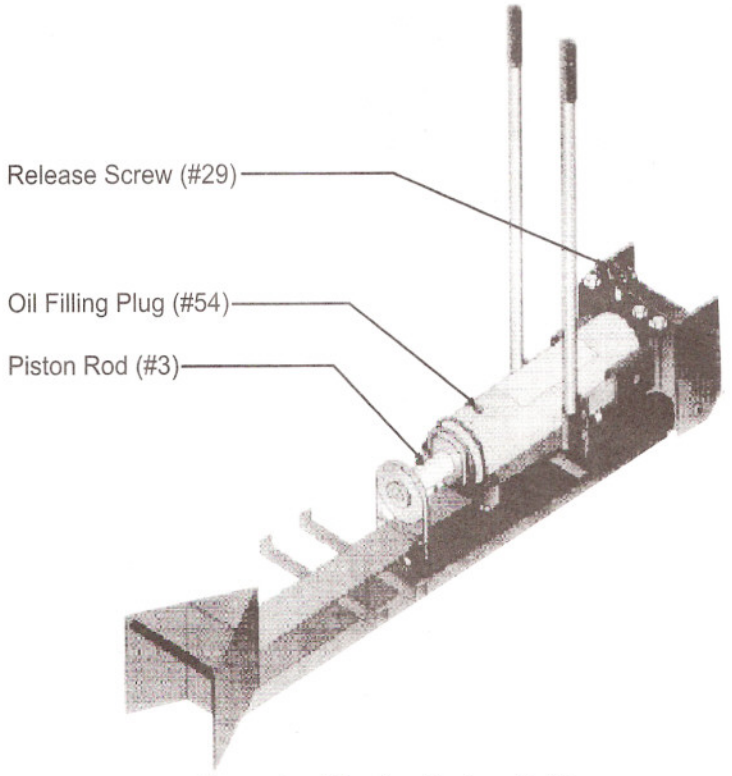

Figure 4 - Bleeding the Log Splitter

Step 3: Turn the RELEASE SCREW (#29) counterclockwise as fast as possible. The PISTON ROD will retract into the CYLINDER and push air out of Oil Filling Hole.

Step 4: Replace the OIL FILLING PLUG. Repeat Step 1-4 as necessary.

PARTS LIST

Item	Description	Qty
1	Cistern	1
2	Cylinder	1
3	Piston Rod	1
4	Pump Plunger	1
5	Pump Body	1
6	Piston	1
7	Wiper Seat	1
8	Gland Nut	1
9	O-Ring	1
10	O-Ring	1
11	O-Ring	1
12	Pump Body	1
13	Pump Plunger	1
14	Base Plate	1
15	Seal	1
16	Spring	2
17	Socket	2
18	Split Pin	6
19	Pin	4
20	Pin	2
21	Link	2
22	Hex Bolts	3
23	Cistern Packing	1
24	Bush	2
25	Shaft	1
26	Split Pin	2
27	Jacks Top Plate	1
28	U-Clamp	1
29	Release Screw	1

Item	Description
30	Release Pin
31	Hex Nut
32	Washer
33	Frame
34	Wheel
35	Suction Ball
36	Ball
37	Pin
38	Grub Screw
39	Ball
40	O-Ring
41	Ball
42	Cup Packing
43	Circlip
46	Washer
47	Bolt
48	Spring Washer
49	Retainer
50	Spring
51	O-Ring
52	Spacer
53	Back Up Ring
54	Operating Lever
56	Triangular Flap
57	Washer
58	Air Vent Valve
59	Air Vent Valve O-Ring

ASSEMBLY DIAGRAM