

October 2007

OPERATING INSTRUCTIONS

Proper Use

1. Center the cap under the load
2. Wherever possible have the jack lift in a perpendicular position. Lifting at an angle will place an Excessive side strain on the ram.
3. Do not push the load off the jack.
4. Always use axle stands to support vehicle before Making under-vehicle repairs.

To Operate

1. Open release valve and pump handle several times. This will eliminate any airbound condition that may have occurred during shipment
2. Engage the slotted end of the handle with the head of the release screw.
3. Close release valve by turning to right.
4. Insert handle in handle socket and operate the pump.

If Jack Will Not Operate

1. Release valve may be open— Turn to right to close
2. No oil in reservoir —With jack in closed position, place in upright position and add hydraulic jack oil through filler plug until oil is level with filler hole. **DO NOT USE ALCOHOL, GLYCERINE, BRAKE FLUID, THICK OR DIRTY OIL.**
3. Intake and pressure valves may be held open by foreign matter 00 Use Operating Instruction No. 1
4. Jack will not operate on side— Jack may have been placed on wrong side. This side to which the handle socket is attached must be down.
5. Too much oil in the reservoir—Too much oil is liable to cause a vacuum bound jack. The oil should be brought to the level of the filler plug.

If Jack Will Raise To Load But Will Not Lift It

1. Release screw may be closed tight enough to raise ram, but not closed tight enough to lift load.
2. Ram may be at extended height- Ship jack up.
3. Ram cup may have become injured or porous, allowing oil to pass it.
4. Air under ram —\when there is a quantity of air under he ram, the ram will raise until it hits the load, then it will stay there until there has been sufficient number of pump strokes to compress this air to the proper pressure to lift the load. If this happens, turn jack upside down with ram extended, open release screw and close jack completely. This will cause air to return to oil reservoir.

5. Sticky valves—Empty all oil from reservoir and refill with gasoline or naphtha. Flush as recommended in Operating Instruction No. 1. Then with new hydraulic jack oil.

If jack Will Not Hold Load

1. Release valve may not be tight enough.
2. Ram cup may have become injured, allowing oil to pass it.
3. Ball valves may not be seated properly—Flush off as prescribed in Operating Instruction No. 1. The construction of this jack makes the ball valves readily accessible for cleaning. Remove release screw. Remove valves by tipping the jack forward and catching these parts in the hand or a container, place jack on back side with label up to avoid loss of oil. After washing ball valves in kerosene, assemble in reverse order. Replace ball if flat spots or pitted surfaces are found.

Maintenance

1. Refill only with recommended jack oil. Never use a substitute.
2. Use every precaution to prevent entrance of dirt when refilling jack.
3. Store in upright position in a dry place
4. When stored, the ram should be lowered completely. The pump piston should be in the lowest position and the release valve should be closed.

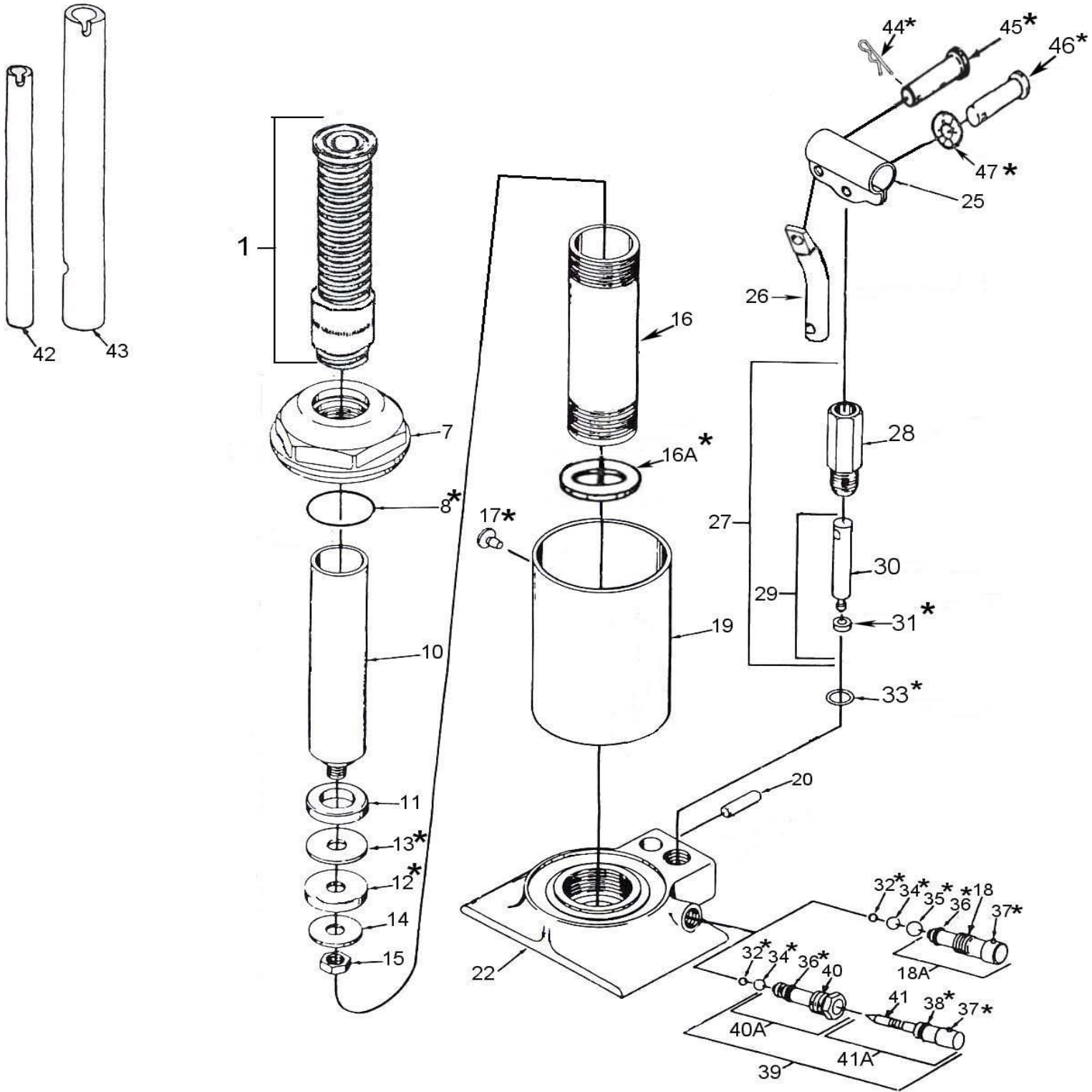
Lubrication

1. Oil all moving parts periodically.
2. Grease should be used on all exposed parts if jacks are constantly used under wet conditions.

100%
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CAUTION: This jack is designed for *lifting* purposes only.
Always use garage stands to support vehicle before making under-vehicle repairs.

MODEL D-51121



* Denotes Items in Repair Kit

Item No	Name of Part	D-51121
1	Extension Screw Assembly	4-50644
7	Reservoir Head	2-50421
8*	"O" Ring	D-2099-17
9	Ram Assembly	4-50517
10	Ram	56188
11	Ram Spacer	D-2235B
12*	Ram Cup	D-2234A
13*	Ram Cup Backup Washer	D-2240
14	Ram Cup Retainer	D-2236A
15	Ram Cup Nut	D-2237
16	Ram Cylinder	56189
16A*	Washer -Brass	2-58490
17*	Filler Plug	2-54029
18	Release Screw	2-50418
18A	Release Screw Assembly	4-50514
19	Reservoir	56191
20	Link Pin	D-2248A
22	Base	2-50422
25	Handle Socket	10-11755
26	Piston Link	10-11785
27	Pump Assembly	4-50518
28	Pump Cylinder	2-50423
29	Piston Assembly	4-54947
30	Pump Piston	2-54945
31*	Piston Cup	10-11760
32*	Valve Ball (7/32 Dia)	D-2074
33*	Piston Cylinder Washer	D-2027
34*	Valve Ball (5/16 Dia)	D-2070
35*	Valve Ball (13/32 Dia)	D-2075
36*	"O" Ring (5/16 x 7/16)	D-2099-6
37*	Release Screw Pin	2-58745
38*	"O" Ring (1/4 x 3/8)	D-2099-5
39	Release Screw Assembly	4-58754
40	Release Insert	2-58436
40A	Release Insert Sub Assembly	4-58462
41	Release Screw	2-58437
41A	Release Screw Sub Assembly	4-58460
42	Small Pump Handle Half	2-50339
43	Large Pump Handle Half	2-50338
44*	Retaining Clip	2-58541
45*	Handle Socket Link Pin	10-12019
46*	Pump Pin	CH-1028
47*	Retaining Ring	10-11758
	REPAIR KIT	5-577

* Denote Items in Repair Kit

WARNING

- A. THIS DEVICE IS A LIFTING DEVICE ONLY. THE LOAD SHALL BE SUPPORTED IMMEDIATELY BY OTHER APPROPRIATE MEANS.
- B. DO NOT OVERLOAD. OVERLOADING CAN CAUSE DAMAGE TO OR FAILURE OF THE JACK.
- C. LIFT ONLY ON AREAS OF THE VEHICLE AS SPECIFIED BY THE VEHICLE MANUFACTURER.
- D. THIS JACK DESIGNED FOR USE ONLY ON HARD, LEVEL SURFACES CAPABLE OF SUSTAINING THE LOAD. USE ON OTHER THAN HARD, LEVEL SURFACES CAN RESULT IN JACK INSTABILITY AND POSSIBLE LOSS OF LOAD
- E. FAILURE TO HEED THESE WARNINGS MAY RESULT IN LOSS OF LOAD, DAMAGE TO THE JACK, AND/OR FAILURE RESULTING IN PERSONAL INJURY OR PROPERTY DAMAGE.



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