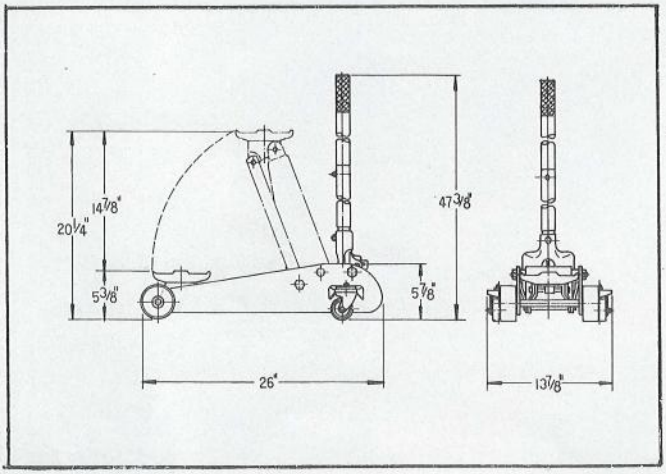
OWNER'S MANUAL

2 TON HYDRAULIC GARAGE JACK

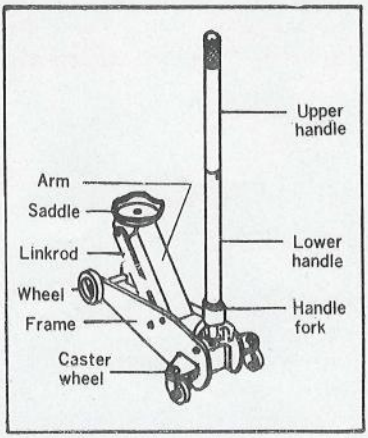
Specification

Capacity	2	(TON)
Minimum Saddle Height	5 3/4"	(13.6cm)
Maximum Saddle Height	20 1/4"	(51.4cm)
Hydraulic Lift	14 7/8"	(37.8cm)
Overall Length	26"	(66cm)
Overall Height	47 3/8"	(120.3cm)
Overall Width	13 7/8"	(35.2cm)
Frame Height	5 7/8"	(15cm)
Handle Length	39 7/8"	(101.3cm)
Weight of Jack	84.7lbs	(38.5kg)



Safety Rules

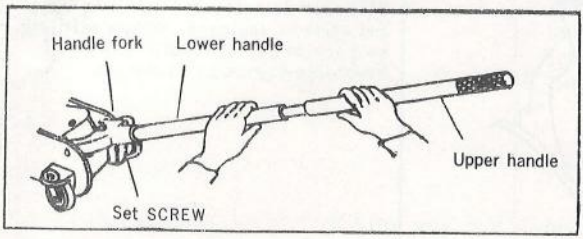
1. DO NOT use engine oil or hydraulic brake fluid when refilling tank (about once each year). **Use only hydraulic jack oil.**
2. Before jacking up car, check car manual for information where to place jack. This jack is designed for jacking under axles or approved jacking points only.
3. DO NOT attempt to exceed the jacking capacity o 2 tons.
4. Always use jack on a solid hard surface that is horizontal to prevent rolling.
5. After jacking up car. always place safety stands under the axles before starting repairs.
6. Place chocks under wheels on both sides to prevent rolling.
7. Always use safety stands in pairs and check them to ensure they are not cracked, corroded, or damaged.
8. DO NOT work under car when car wheels are removed.
9. Keep bystanders away from the car and from the jack.



Assembly

Jack Handle

1. Connect the two-piece handle by lining up the holes and fasten the assembly pin.
2. Insert handle into handle fork, and tighten the handle set screw.



Operation

Your hydraulic garage jack uses hydraulic force to raise the arm and saddle.

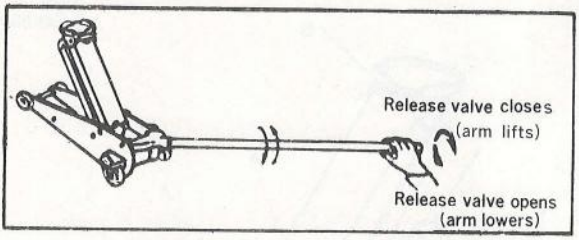
Hydraulic oil is contained in the tank which is part of the jack, and when the jack handle is worked the oil is forced through a valve into a cylinder. The piston inside the cylinder in turn pushes the rod which operates the arm.

By opening the valve, the oil again reenters the tank, thus lowering the arm and saddle.

The operation of the jack is explained in the following instructions.

To Lift

Twist the handle toward the right (clock wise) as far as it will turn. The jack is now ready for operation. Position the jack correctly under the appropriate place, and begin lifting by pumping the handle up and down. Be sure jack wheels are on a solid and level surface.

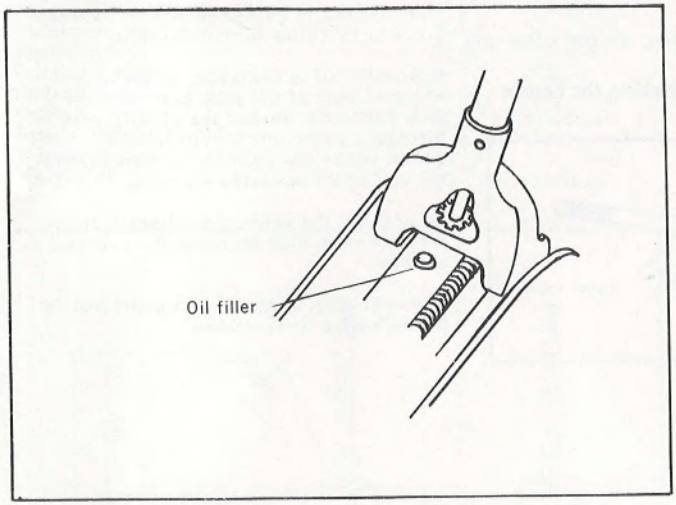


Safety Stands

After lifting up the car to desired height, be sure to place safety stands under the lifted axles. Lower the car onto the safety stands by slowly turning the handle toward the left (counter clock wise) to lower the car. DO NOT get under the car when it is supported by the jack.

To Lower

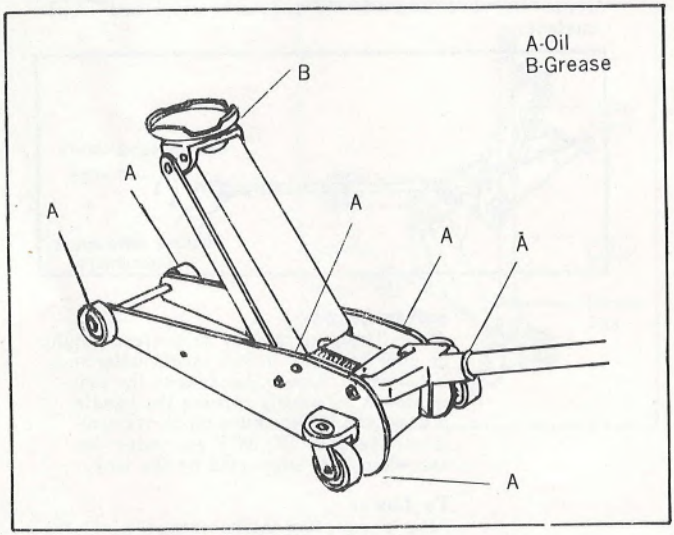
After completing the car repairs, use the jack to lift the car up sufficiently to remove the safety stands. Turn the handle to the right as far as it will go, then pump the handle up and down until the car is lifted. Remove the safety stands. Make sure no obstructions are left under the car. Turn the handle slowly toward the left, lowering the car to the floor.



Oil Tank

The tank containing the hydraulic oil is of the sealed type and normally requires no maintenance.

Oil filler holes are provided in case the oil seals deteriorate(after long usage) and must be replaced. When refilling, be sure to use hydraulic jack oil. Never use engine or brake oil.



Wheels and Pivots

Once every month lubricate the wheel axles and all pivot points with engine oil. Also apply oil to the under part of the saddle. Use grease around the arm pins.

Trouble	Possible Cause	Remedy
1. Jack does not lift.	1. Release valve open. 2. Oil exhausted. 3. Defective suction and/or exhaust valve. 4. Defective packing.	1. Tighten release valve. 2. Fill tank with oil. 3. Check for dust or foreign matter, and clean. 4. Replace packing.
2. Lifts only half way.	Insufficient oil.	Check oil supply, and fill.
3. Lifts, but then lowers out of control.	1. Defective suction and/or exhaust valve. 2. Defective piston packing.	1. Clean valves and adjust valve contact. 2. Replace the piston packing.
4. Erratic lift.	Defective plunger packing and/or incorrect valve.	Clean valves and/or packing. Replace oil.

ALLIED MODEL HDJ2 Illustrated parts List

ITEM NO	DESCRIPTION	Q'TY
01	BASE	1
02	CYLINDER	1
03	RAM	1
03-1	PIN	1
03-2	STEM	1
03-3	PLUNGER SPRING	1
03-4	SPRING	1
03-5	SCREW	1
04	RETAINER, RAM	1
05	BACK-UP RING	1
06	CUP SEAL	1
07	CUP WASHER	1
08	SNAP-RING "C,,	1
09	PACKING	1
10	FILTER	1
11	RESERVOIR	1
12	TOP NUT	1
13	"O,,-RING	1
14	SEAL. TOP NUT.	1
15	STEEL BALL 1/4"	4
16	STEEL BALL 3/8"	1
18	WASHER	1
19	BOLT, CHECK VALVE	1
21	SPRING PLUNGER	1
22	SPRING	1
23	SCREW, SPRING	1
24	SEAL	2
25	BOLT, SAFETY VALVE	1
26	WASHER	2
27	COLLAR	1
28	RELEASE VALVE	1
29	NUT, RELEASE VALVE	1
30	"O,,-RING	1
31	CONNECTING ROD, RELEASE VALVE	1
32	GEAR, RELEASE VALVE	1
33	"O,,-RING	1
34	BACK-UP RING	1
35	SEAL, DUST	1
36	PUMP PISTON	1
37	FILLER PLUG	1
39	FRAME, R.H	1
42	FRAME, L.H	1
43	FIXED SHEET	3
44	LIFTING ARM STOP ROD	1
45	FRONT SPINDLE	1
46	FRONT WHEEL	2
47	WASHER	2
48	SNAP-RING "E,,	2

ITEM NO	DESCRIPTION	Q'TY
49	REAR CASTER BRACKET	2
50	REAR CASTER	2
51	FORK, SWIVEL, REAR CASTER	2
52	SHAFT, REAR CASTER	2
53	BALL BEARING	2
55	BOLT	2
57	NUT	2
58	BOLT	2
59	SPRING WASHER	4
60	LIFTING ARM ASS'Y	1
61	CONNECTING ROD	1
62	PIN	1
63	SNAP-RING "C,,	2
64	GREASE FITTING	1
65	SADDLE BASE	1
66	PIN, LIFTING ARM	1
67	SIDE LINK	2
68	PIN, SIDE LINK	1
69	SCREW, SIDE LINK	2
70	SPRING WASHER	2
71	NUT	2
72	SPINDLE, LIFTING ARM	1
73	SNAP-RING "C,,	1
74	SPRING	1
76	SPLIT PIN	1
77	HANDLE FORK	1
78	CONNECTING ROD, RELEASE VALVE	1
79	GEAR, CONNECTING ROD, RELEASE VALVE	1
80	NUT	1
81	SPLIT PIN	1
82	PIN	1
83	SHAFT, HANDLE	1
84	SPRING WASHER	2
85	SHAFT, HANDLE	1
86	TORSION SPRING	1
87	SET SCREW, HANDLE	1
88	SADDLE KIT	1
89	HAND LEVER "A,,	1
89-3	PIN	1
90	HAND LEVER "B,,	1
91	BOLT	1
91-1	NUT	1
92	"O"-RING	1
94	"O,,-RING, FILLER PLUG	1
96	SPRING WASHER	2
97	NUT	1
98	SPRING	1
102	WASHER	1