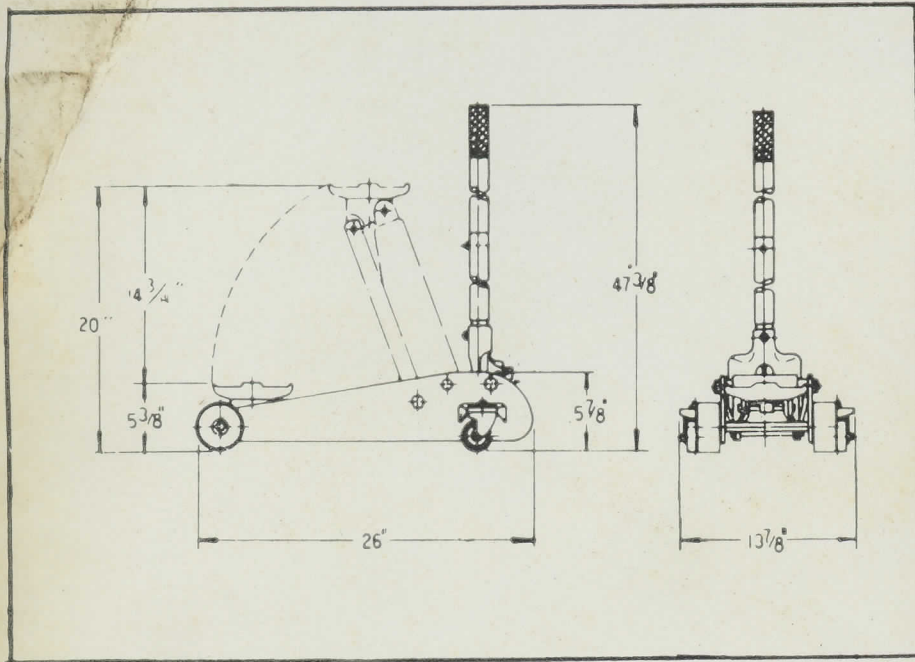


# OWNER'S MANUAL

2 $\frac{1}{4}$  TON HYDRAULIC  
GARAGE JACK

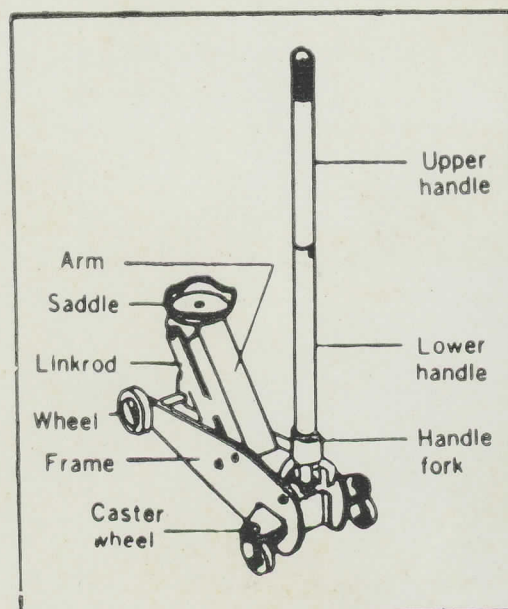
## Specification

Capacity.....	2 1/4	(TON)
Minimum Saddle Height.....	5 3/8"	(13.6cm)
Maximum Saddle Height.....	20"	(50.8cm)
Hydraulic Lift.....	14 3/8"	(36.5cm)
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.....	82 lbs	(37kg)



## 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 of 2 1/4 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.



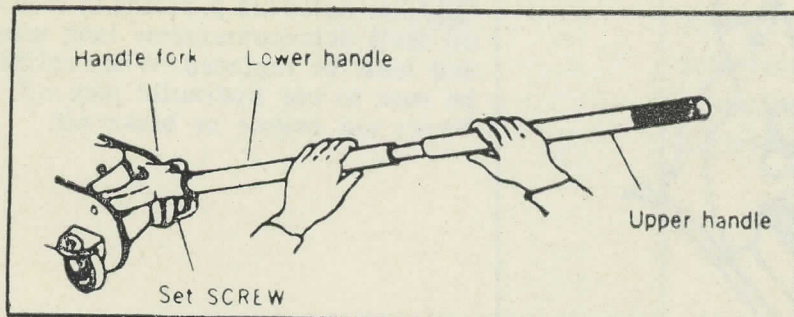


## Assembly

## Operation

### 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.



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

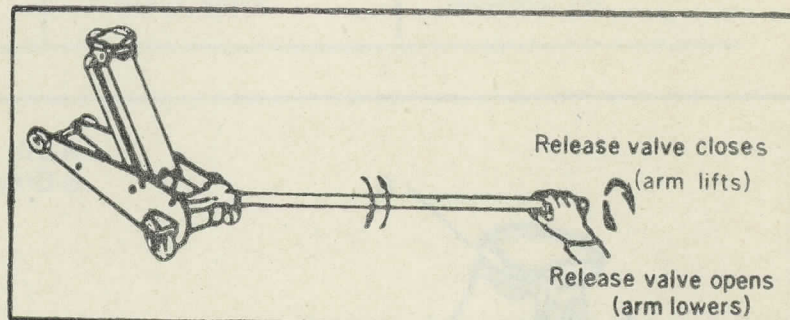
Hydraulic oil is contained in the tank which is part of the jack, and when the jack handle is worked the oil is forced through a valve into a cylinder. The piston inside the cylinder in turn pushes the rod which operates the arm.

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

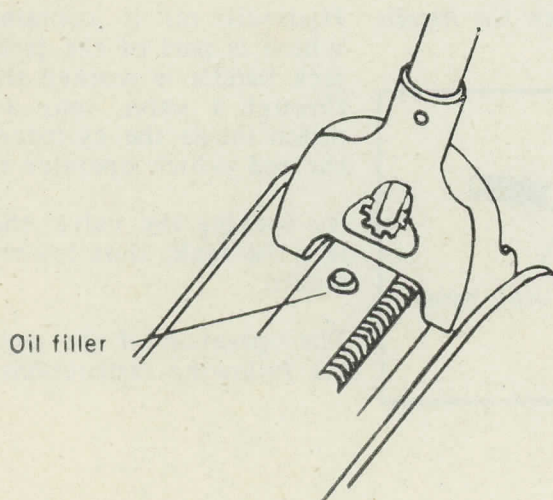
After completing the car repairs, use the jack to lift the car up sufficiently to remove the safety stands. Turn the handle to the right as far as it will go, then pump the handle up and down until the car is lifted. Remove the safety stands. Make sure no obstructions are left under the car. Turn the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

## Maintenance

### Oil Tank

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

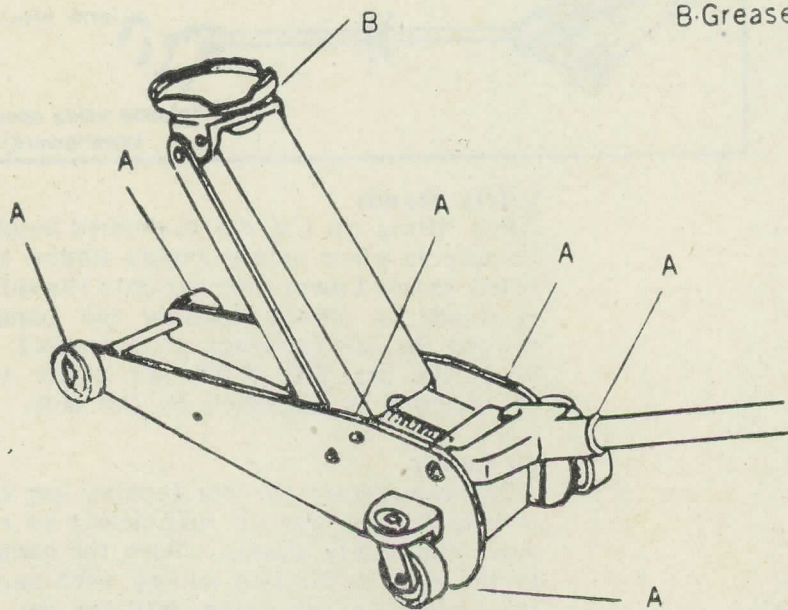
Oil filler holes are provided in case the oil seals deteriorate (after long usage) and must be replaced. When refilling, be sure to use hydraulic jack oil. Never use engine or brake oil.



### 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.

A. Oil  
B. Grease





## Troubleshooting

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.

## Illustrated parts List

ITEM NO	DESCRIPTION	Q'TY
01	FRAME	1
02	REAR CASTER ASS'Y	2
03	NUT	2
04	FRONT WHEEL	2
05	WASHER	2
06	SNAP RING "E"	2
07	BASE ASS'Y	1
08	BOLT	2
09	SPRING WASHER	2
10	LIFTING ARM ASS'Y	1
11	SPINDLE, LIFTING ARM	1
12	SADDLE KIT	1
13	GREASE FITTING	1
14	SCREW, SIDE LINK	2
15	SNAP-RING "C"	2
16	CONNECTING ROG	1
17	SPLIT PIN	1
18	SPRING	1
19	SNHP-RING "C"	2
20	SPRING WASHER	2
21	NUT	2
22	SPRING WASHER	2
23	SHAFT, HANDLE	2
24	HANDLE FORK	1
25	TORSION SPRING	1
26	GEAR, RELEASE VALVE	1
27	PIN	1
28	CONNECTING ROD, RELEASE	1
29	SPLIT PIN	1
30	WASHER	1
31	GEAR, CONNECTING ROD	1
32	SPRING WASHER	1
33	NUT	1
34	SET SCREW, HANDLE	1
35	HAND LEVER "A"	1
36	HAND LEVER "B"	1
37	PIN	1
38	BASE	1
39	PUMP PISTON	1
40	SEAL DUST	1
41	BACK-UP RING	1
42	"O" RING	1
43	BOLT, CHECK VALVE	1
44	SEAL	2
45	STEEL BALL 3/8"	1
46	STEEL BALL 1/4"	3
47	NUT, RELEASE VALVE	1
48	NUT	1

ITEM NO	DESCRIPTION	Q'TY
49	RELEASE VALVE	1
50	COLLAR	1
51	WASHER	2
52	BOLT, SAFETY VALVE	1
53	SCREW, SPRING	1
54	SPRING	1
55	SPRING PLUNGER	1
56	"O"-RING	1
57	CYLINDER	1
58	PACKING	1
59	RESERVOIR	1
60	FILLER PLUG	1
61	"O"-RING	1
62	SEAL, TOP NUT	1
63	TOP NUT	1
64	SNAP-RING "C"	1
65	CUP WASHER	1
66	CUP SEAL	1
67	RAM	1



# Illustrated parts List

