

Operating Instructions

Service Jacks



SJ-15 < 1½ton >

SJ-20 < 2 ton >

SJ-30 < 3 ton >

SJ-50 < 5 ton >

SJ-100 < 10ton >



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This Service Jack now in your possession is engineered and fabricated to suit your requirements with our long experienced technical background, passed a rigid inspection of our well organized Quality Assurance Group, and is guaranteed with confidence for its long and trouble-free life.

1. Precautions

- 1) This jack is designed for lifting the vehicles and not for any other purposes.
- 2) After lifting up the vehicle, be sure to place safety stands under the lifted axles.
- 3) The place to use this jack must be level and solid ground.
- 4) When lifting the vehicle, be sure to place the axle right on the center of the jack saddle.
- 5) Never move the jack while it is supporting the vehicle.
- 6) When lowering the vehicle, make sure nobody is around or under the lifted vehicle and slowly lower the vehicle with special attention to jack saddle.
- 7) Safety valve is properly adjusted at factory and no further adjustment is required.
- 8) While not in use, always keep the handle straight up and locked so that it won't fall.

2. Operating Instructions

Before using the jack

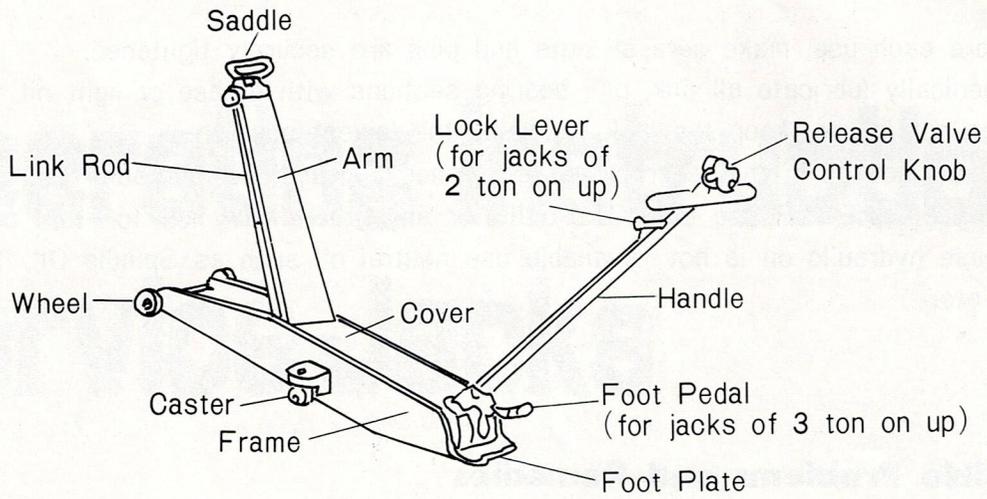
- 1) Insert the handle into handle socket fully and tighten the thumb screw on the socket securely.
- 2) Open the release valve by turning the release valve control knob counterclockwise and pump the handle about 6 full strokes to let the air out of the hydraulic system. Then close the release valve by rotating the release valve control knob clockwise and pump the handle up to full extension of jack. Lower the jack by opening the release valve.

Note: If the jack does not immediately respond to pump action, repeat step 2 above.

To use the jack

- 1) **To raise the vehicle**, close the release valve by turning release valve control knob clockwise as far as it will go. Then carefully position the jack under the vehicle. Pump the jack handle to lift the vehicle to the desired height. For the jacks of 2 ton capacity on up, first, pull the lock lever up and push it over to the left to slide into upper slot, then start pumping the handle. For the jacks of 3 ton capacity on up, foot pumping pedal is also provided for faster operation.
- 2) **To lower the vehicle**, slowly and carefully rotate the release valve control knob counterclockwise. Descending speed can be controlled by opening amount of release valve.
- 3) When the jack is transported, the handle may be removed and carried separately.

3. Name of Principal parts

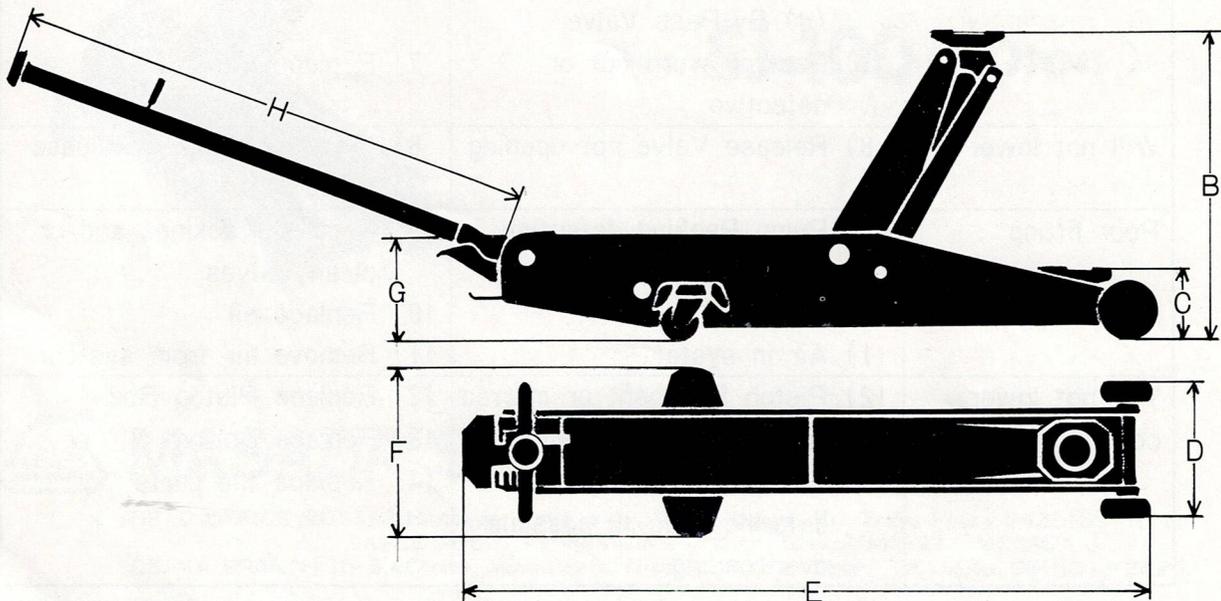


4. Specifications

(mm)

Model	Capacity	MIN. Saddle Height (C)	Lift	MAX. Saddle Height (B)	Frame Height (G)	Overall width at Fixed wheels (D)	Overall Width (F)	Overall Length (E)	Handle Length (H)	Weight (kg)
SJ- 15	1½ ton	125	365	490	150	219	326	620	1100	30
SJ- 20	2 ton	125	365	490	160	236	320	940	950	50
SJ- 30	3 ton	130	480	610	190	236	340	1317	1070	75
SJ- 50	5 ton	150	410	560	200	300	362	1410	1070	104
SJ-100	10ton	160	400	560	248	338	464	1565	1230	160

* Specifications are subject to change without notice.



5. Maintenance and Cares

- 1) Before each use, make sure all nuts and pins are securely tightened.
- 2) Periodically lubricate all link, pin, bearing sections with grease or light oil.
- 3) When not in use, keep the jack saddle in the lowest position.
- 4) Replace jack oil in the reservoir at least once a year. Use hydraulic oil of good quality and NEVER use BRAKE FLUID or any other heavy oil for this purpose. In case hydraulic oil is not available, use neutral oil such as Spindle Oil, Turbine Oil, etc.

6. Possible Problems and Remedies

Possible Problem	Possible Cause	Remedy
Will not lift at all	<ol style="list-style-type: none"> 1) Release Valve not properly closed 2) No oil in system 3) Delivery Valve and/or By-Pass Valve malfunctioning (Valve Ball not properly seated) 4) Packing worn out or defective 	<ol style="list-style-type: none"> 1) Tighten securely 2) Fill to prescribed level 3) Clean to remove dirt or foreign matter and replace oil 4) Replace Packing
Will lift only part way	<ol style="list-style-type: none"> 5) Oil level low or too high 	<ol style="list-style-type: none"> 5) Fill or take excess oil out
Will lift load, but will not hold	<ol style="list-style-type: none"> 6) Either of the following Valves not functioning <ol style="list-style-type: none"> (a) Suction Valve (b) Delivery Valve (c) Release Valve (d) By-Pass Valve 7) Packing worn out or defective 	<ol style="list-style-type: none"> 6) Inspect Valves-clean and adjust seat surface 7) Replace Packing
Will not lower	<ol style="list-style-type: none"> 8) Release Valve not opening 	<ol style="list-style-type: none"> 8) Clean and adjust Release Valve
Poor lifting	<ol style="list-style-type: none"> 9) Pump Packing defective or Valves malfunctioning 10) Dirty oil 11) Air in system 	<ol style="list-style-type: none"> 9) Replace Packings and/or clean Valves 10) Replace oil 11) Remove air from system
Will not lower completely	<ol style="list-style-type: none"> 12) Piston Rod bent or marred 13) Jack Spring damaged 14) Link section warped or deformed due to possible over-loading 	<ol style="list-style-type: none"> 12) Replace Piston Rod 13) Replace Spring 14) Replace the parts