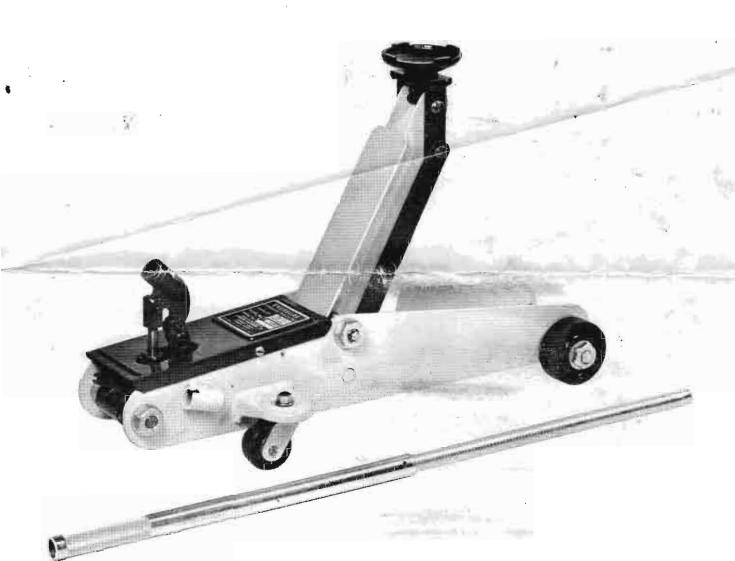
OPERATING INSTRUCTIONS PARTS LIST

MODEL 1500 MKII TROLLEY JACK



OPERATING INSTRUCTIONS

When this Jack leaves the factory, the air release valve is closed to prevent the oil being spilled when the Jack is in transit. Before using the Jack, remove cover plate by unscrewing two side screws. Unscrew knurled ring (Part No. 1573) until there is a 1/16" gap between knurled ring and hexagon filler plug (Part No. 1572). Replace cover plate and side screws. To operate, tighten release valve spindle (Part No. 847) by turning in clockwise direction. Place handle in operating (ever (Part No. 1561) and

To manoeuvre Jack into position under a car, place handle in socket which is situated on the right-hand side of the Jack, UNDER NO CIRCUMSTANCES should the Jack be manoeuvred when the handle is in the operating lever, as a side thrust may bend the piston (Part No

move handle up and down. To lower Jack turn release valve spindle, VERY SLOWLY, in anti-clockwise direction.

The wheels should be occasionally oiled, and a grease gun applied to the two nipples on the lifting arm spindle. A diagrammatic drawing is supplied with each Jack, and all the parts likely to be required for servicing are numbered. OIL

The operating handle is in two parts. A special rivet is attached to one half and the two half handles should be joined together by knocking

1554).

the rivet into the holes provided.

The oil used in the Jack is specially blended, and is available in 8-fl. oz. plastic bottles. If our oil is not readily obtainable, the equivalent international oil specification is SAE 10. N.B. To "top up" Jack with oil, first remove filler plug (Part No. 1572) and then take out oil level plug (Part No. 264). The correct oil level is up to the bottom of the thread in the oil level hole (264).

NOTE

When ordering spares, besides quoting the relevant part number, please state serial number of Jack.

SERVICE INSTRUCTIONS FOR TROLLEY JACKS (Model No. 1500 Mk II)

If Jack fails to lift make sure that the release valve (Part No. 847) is tightened in a clockwise direction. Secondly, check that the Jack has sufficient oil. This can be done by unscrewing the oil level plug (Part No. 264). The correct oil level should be up to the bottom of the thread in the filler plug hole. ON NO ACCOUNT REFILL OR TOP UP THE JACK WITH SHOCK ABSORBER OR BRAKE FLUID. Preferably use our specially blended oil which can be purchased in 8-fl. oz. plastic bottles, or if unable to obtain this, transformer or thin machine oil may be used. The equivalent international specification is SAE10

Note: To "top up" Jack with oil, first remove filler plug (Part No. 1572) and then take out oil level plug (Part No. 264). The correct oil level is up to the bottom of the thread in the oil level hole. (264)

Yet another reason for the Jack not working is if it gets "air-locked". To remedy this make sure that the knurled locking ring (Part No. 1573) has been unscrewed to enable the air vent screw (Part No. 1578) to move up and down thus ensuring that air can enter the oil chamber. Then slacken the release valve and pump the handle socket (Part No. 1561) up and down a few times and close the release valve.

If the Jack still does not function, it is probably because a small particle of foreign matter is preventing one of the ball valves from making an oil tight joint on its seating. In this case it will be easier to remove the heart which is a simple operation. First remove the return spring (Part No. 1540), remove three nuts (Part No. 1531) and one front wheel (Part No. 1532). One side can now be removed from the Jack. Then withdraw body anchor bolt (Part No. 1538) which secures the heart to the chassis. The heart is now free and should be turned anti-clockwise until the unit unscrews from the crosshead (Part No. 1516). On later models the crosshead (Part No. 1516) has been incorporated in the ram (Part No. 1602) and it will be necessary to remove circlip (Part No. 1567) and withdraw crosshead pin (Part No. 1539).

Note: The spacing collars should be placed in position on the body anchor bolt so that there is one collar on either side of the body. The side that has been removed can now be reassembled on the three bolts. One washer (Part No. 1536) fits over the front wheel spindle (Part No. 1533) before the wheel is reassembled. All three nuts and washers should be well tightened and the return spring should be reassembled on its two securing studs.

If the ram fails to move the cause of failure is due to the inlet valve (Part No. 267) not making an oil tight joint. To remedy this, remove the sealing plug (Part No. 1586) with a screwdriver, (the sealing plug is a $\frac{1}{2}$ " diameter steel plug situated under the boss in the body casting which fits over the body anchor bolt), and take out the hair spring and ball, and clean the ball seating. This is best done by blowing with compressed air if available. Wipe ball and replace on its seat. To make sure that it is making a proper seating, you require a $\frac{1}{4}$ " diameter punch. This can easily be made by cutting off a piece of $\frac{1}{4}$ " diameter silver steel or mild steel about 3" long. Having inverted the heart (that is base upwards) place the punch on the ball and give the punch a light tap with a small hammer. This will have the effect of reseating the ball on its seat. Next replace the hair spring (smallest diameter touching the ball) and then screw in the sealing plug and well tighten.

If you commence pumping and the ram lifts a short distance and sinks back to its original position when the handle is again lifted this indicates that the non-return valve at the bottom of the ram cylinder is not seating. To remedy this fault it is necessary to partly disassemble the Jack. Before commencing to disassemble the Jack, remove filler plug (Part No. 1572) and empty oil into a clean vessel. Then remove top nut (Part No. 1502) and oil chamber (Part No. 1528) and withdraw ram assembly. It is now possible to undo the ram cylinder (Part No. 1526) by using chain grips. At the bottom of the ram cylinder there is a gauze filter (Part No. 1527). This must be carefully removed and if damaged a new one fitted. Now remove the $\frac{1}{4}$ diameter ball and blow out with a compressed air gun. Next wipe ball and replace and reseat by using the same punch as described above. Replace copper and gauze washers, screw in ram cylinder and well tighten.

Note: One end of the ram cylinder has the thread turned away, this is the end to be screwed into the base. Replace oil chamber with fibre washers top and bottom and well tighten the top nut.

If oil leaks past the piston (Part No. 1554) it generally indicates that a new piston seal is required. To remove piston, take off circlip (Part No. 1563) and withdraw pivot pin (Part No. 1562). The lever will now swing out of the way enabling the piston to be withdrawn from the sleeve. If the piston sleeve (Part No. 830) has to be removed it is important to replace piston gauze filter (Part No. 485).

Front Wheel Assembly—The front wheels (Part No. 1532) are fitted with roller bearings. Each wheel has 25 rollers (Part No. 1534).

Castor Wheel Assembly—Each castor is fitted with eighteen $\frac{1}{4}$ " diameter ball bearings (Part No. 267). To adjust the castor, slacken lock nut (Part No. M216) and adjust, with a screwdriver, bolt (Part No. 1568). Having adjusted the castor so that it rotates freely without side play, tighten lock nut (Part No. M216).

Service Kits—These are available and comprise the necessary washers and seals that would be required for a general overhaul of the heart. Should any other parts be required please refer to the sectional drawing and quote the appropriate part number and serial number of the Jack when ordering.

SPECIFICATION OF MODEL 1500 Mk II TROLLEY JACK

	1529 1531	LIFTING ARM ASSEMBLY Lifting Arm Spindle CASTOR FORK ASSEMBLY, 2 off 16 mm Nut, 6 off	1558	Name Plate Cover Plate Spacing Collar, 2 off Knurled Handle Front End Handle
	1533	Front Wheel, 2 off Front Spindle	1560	3/8" x 1" Bissell Pin
	1536	Spacing Bush for Front Wheel, 2 off Plain Washer, 8 off	1567	
	1537 1538	Rollers for Front Wheel, 50 off Body Anchor Bolt	1568 1569	Bolt for Castor Fork, 2 off Box
	1539	Cross Head Pin Return Spring	1580 1584	CRUTCH MOUNTING BRACKET ASSEMBLY SWIVELLING CRUTCH ASSEMBLY
	1541 1542	Castor Wheel, 2 off	RF365	⅓" BSF Screw, 2 off
	1543	\frac{1}{2}" diameter Circlip, 4 off	M217	ਰੇ UNF Nut, 2 off ਰੇ Shake Proof Washer, 2 off
	1545	Spindle for Crutch Crutch Radius Link	267	Steel Washer, 2 off ¼" Ball, 36 off
	1593 1594	LEFT HAND SIDE MEMBER ASSEMBLY RIGHT HAND SIDE MEMBER ASSEMBLY	1601	PUMP ASSEMBLY
SPECIFICATION OF MODEL 1500 Mk II HYDRAULIC PUMP UNIT (Part No. 1601)				
	256 264 265 267 281	Sealing Plug Washer, 2 off Oil Level Plug 2BA Side Screw 4" Ball, 3 off Hair Spring	1528 1554 1555 1556 1561	Oil Chamber Piston Pivot Pin for Lever Link, 2 off Oil Chamber Fibre Washer, 2 off Lever
	1518 1519	Filler Plug Washer, 2 off Piston Gauze LEVER LINK ASSEMBLY Piston Sleeve 76" sq. sect. O-ring Release Valve Spindle 34" o.d. Fibre Washer, Top Nut Eye Bolt Coliar for Cup Washer Cup Washer	1562 1563 1564 1571 1572 1573 1578 1586 1589 1597 1598	Pivot Pin for Piston Circlip for Pivot Pin, 6 off Ram Sealing Ring
	485 821 830 842 847 880 1502 1504 1518 1519 1520 1521	Filler Plug Washer, 2 off Piston Gauze LEVER LINK ASSEMBLY Piston Sleeve	1562 1563 1564 1571 1572 1573 1578 1586 1589 1597	Pivot Pin for Piston Circlip for Pivot Pin, 6 off Ram Sealing Ring

