

1000KG FOLDING ENGINE CRANE



Value you can trust



1000KG FOLDING ENGINE CRANE

Owners/Instruction Manual



Manufactured and packaged for SRGS PTY LTD ABN 23 113 230 050
751 Gympie Road, Lawnton, Queensland 4501, Australia



PLU 531705

WARRANTY

This product is guaranteed against defects for a period of 12 months from date of purchase. This warranty is provided by Super Cheap Auto Pty Ltd ACN 085 395 124 (Supercheap Auto) of 751 Gympie Rd Lawnton QLD 4501 Ph (07) 3482 7500. Supercheap Auto will offer a repair, replacement product or store credit if the product is assessed as being defective during the warranty period.

To claim under this warranty, take this product to the Front Service Desk of your nearest Supercheap Auto store. For store locations, visit www.supercheapauto.com.au (AUS) or www.supercheapauto.co.nz (NZ). You will need your receipt or proof of purchase. Additional information may be requested of you to process your claim. Should you not be able to provide proof of purchase with a receipt or a bank statement, identification showing your name, address and signature may be required to process your claim.

This product may need to be sent to the manufacturer to assess the defect before determining any claim. Faults or defects caused by product modification, misuse and abuse, normal wear and tear or failure to follow user instructions are not covered under this warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any expenses incurred relating to the return of this product to store will normally have to be paid by you. For more information contact your nearest Supercheap Auto store.

The benefits to the consumer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods and services to which this warranty relates.

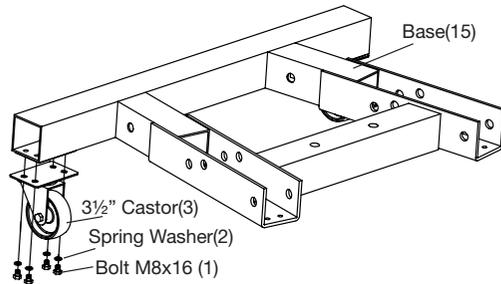
WARNING

1. Do not overload the crane. Overloading could cause damage or failure of the engine crane.
2. Always use the crane with legs lowered and secured on a hard, level surface capable of sustaining the load. Using the crane on other than a hard level surface can result in crane instability and possible loss of load.
3. Please ensure all securing pins are installed before attempting to use the crane.
4. Before use, ensure all nuts and bolts are correctly fitted and tightened.
5. Boom and load must be in lowest possible position before attempting to move a loaded crane. Always move the load slowly and smoothly to avoid uncontrolled swinging and possible loss of load.
6. Never attempt to raise a load while the folding legs are raised.

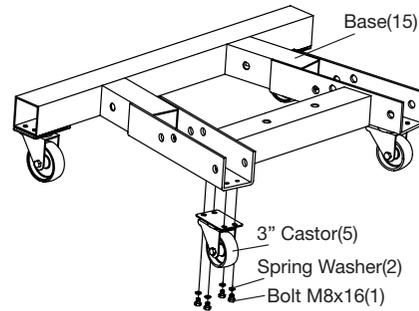
ASSEMBLY

CAUTION: DO NOT TIGHTEN ANY BOLTS UNTIL YOU ARE FULLY FINISHED WITH ASSEMBLY. OTHERWISE PARTS WILL NOT LINE UP PROPERLY.

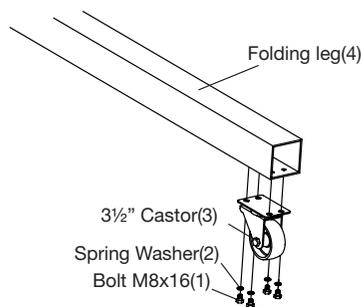
1. To attach two 3½" Castors(3) to the rear section of the Base(15), align the four mounting holes in each Castor with the four mounting holes on the underside of each Base end. Secure in place using four Bolts(1), and Spring Washers(2).



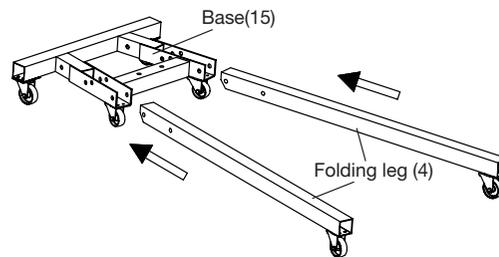
2. To attach two 3" Castors(5) to the front section of the Base(15), align the four mounting holes in each Castor with the four mounting holes on the underside of each Base end. Secure in place using four Bolts(1), and Spring Washers(2).



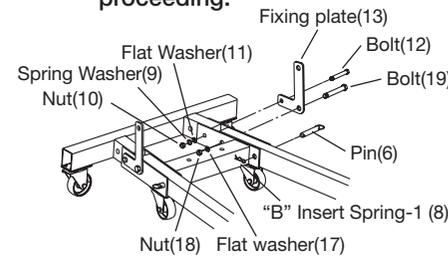
3. To attach 3½" Castor(3) to the end of each Folding leg (4), align the four mounting holes in each Castor with the four mounting holes on the underside of each Leg. Secure in place using four Bolts(1), and Spring Washers(2).



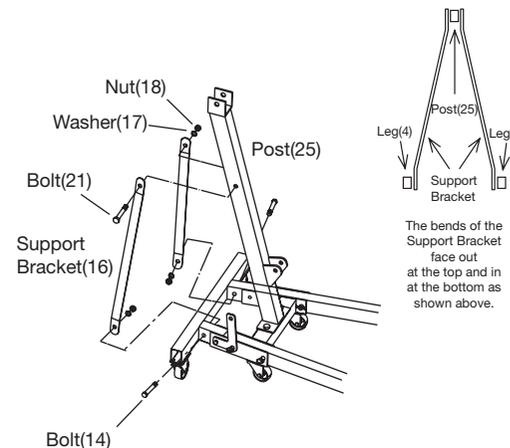
4. Slide Legs(4) into front of the Base(15).



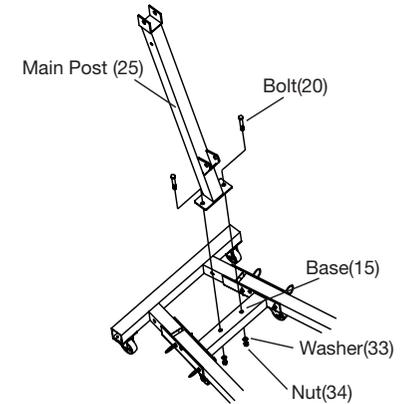
5. Folding Leg (4) in place using the Pins(6). To insert the Pins, lift up on front of Base(15) until holes line up. After all two Pins(6) are inserted, insert "B" Insert Spring-1(8) through small hole at end of each Pin until it snaps into place. Then use two Bolts(12), Flat washers(11), Spring washers(9), Nuts(10), Bolts(19), Flat washers(17), and Nuts(18) to fasten the Fixing plates(13).



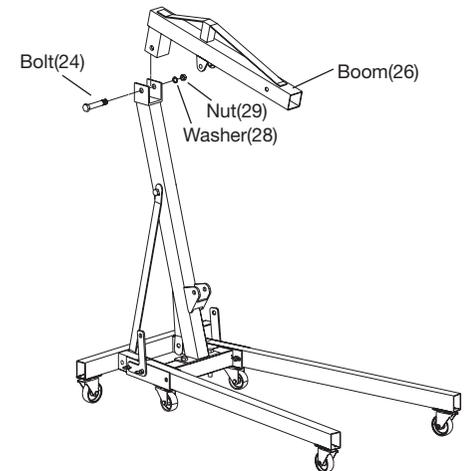
7. Use two Bolts(14), Washers(17) and Nuts(18) to fasten the lower ends of the Support Brackets(16) to the inside of the Base(15), then use one Bolt(21), Washer (17) and Nut(18) to fasten the top ends of the Support Brackets(16) to the Post(25).



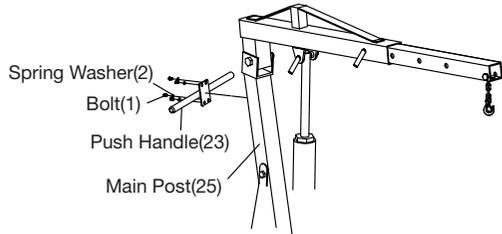
6. Use the Bolts(20), Washers(33), and Nuts (34) to secure the bottom of the Main Post(25) to the Base(15).



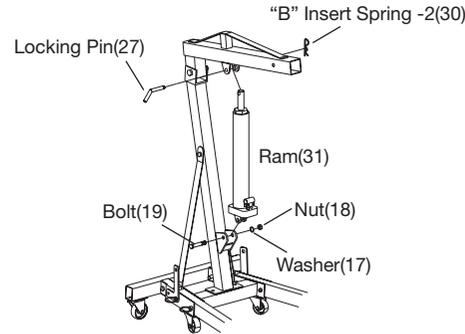
8. Use the Bolt(24), Washer(28), and Nut(29) to attach the Boom(26) to the top of the Post(25).



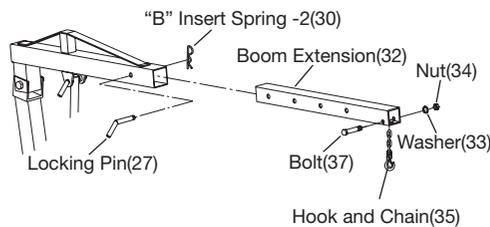
- Use four Bolts(01) and Spring Washers(02) to attach the Push Handle(23) to the Main Post(25).



- Use a Bolt(19), Washer(17) and Nut(18) to attach lower end of the Ram(31) to the Post, insert the Locking Pin(27) by a "B" Insert Spring -2(30) to attach the top of the Ram to the Boom, and secure the Locking Pin(27) by "B" Insert Spring -2(30).



- Slide the Boom Extension(32) into the Boom and use the Locking Pin(27) and "B" Insert Spring -2(30) to secure at the desired load rating. Use the Bolt(37), Washer(33) and Nut(34) to attach the Hook and Chain(35) to the end of the Boom Extension(32).



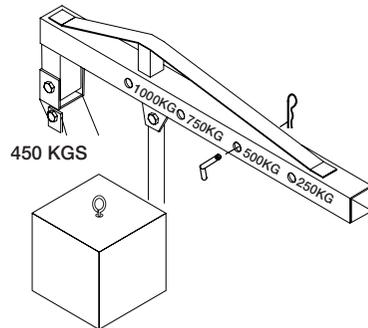
OPERATING INSTRUCTIONS



WARNING: Read ENTIRE IMPORTANT SAFETY INFORMATION section at beginning of this manual including all text under subheadings therein before set up or use of this product.

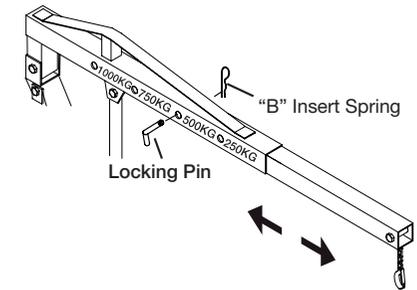
Lifting and Lowering

- Locate the hole on the Boom with a weight limit higher than the weight you will be lifting.
For example: Locate the 500KGS hole on the Boom for a load that is under 500KGS.



- Adjust the Boom Extension so the hole on Boom Extension aligns with the chosen hole on the Boom. Secure into place by inserting the Locking Pin through aligned hole and securing in place with the R-Clip.

WARNING! Keep clear of the object that is being lifted by the Engine Crane. Be aware of the possibility of a load slipping off the Hook and Chain. An item that falls from the Crane can cause serious injury.



- Move the Crane so that the Hook and Chain are directly above the item to be lifted.
- Securely attach the Hook and Chain to the item.
- To raise the Boom, turn the Ram's release valve fully clockwise (right). Insert the Handle into the Ram and pump (up and down) repeatedly until the item has been lifted to the desired height.

WARNING! Fully tighten the release valve or else the Ram may lower or may not be able to reach the full height.

- To lower the Crane, SLOWLY turn the Ram's release valve counterclockwise (left) until desired lowering speed is attained. Failure to do so may result in damage to the engine.

Folding the Frame

WARNING! Do not fold the Crane while loaded. Do not move engine crane with legs in upright position. To do so may cause instability & engine crane may topple causing damage or injury.

- Lower the Crane all the way.
- Remove R-Clips from the front Pins. Remove the front Pins. Leave rear Pins in.
- Raise the Legs until they rest toward base.
- Insert leg pin into hole on fixing plate (13) on the base. Reinsert pin to secure leg in upright position for storage.

Bleeding Instructions

After transporting or prolonged storage air may enter the hydraulic system of the Engine Crane Ram. It is necessary to bleed the air from the system prior to use. Follow the below instructions to complete this procedure.

IMPORTANT! Before first use, check for proper hydraulic oil level and thoroughly test the equipment. If it does not work properly, bleed excess air from its hydraulic system as follows:

1. Open Release Valve and lower Ram completely.
2. Remove Oil Filler Plug and fill with hydraulic oil (sold separately) to full level.
3. Apply downward pressure to the Boom and Pump the Ram Handle quickly several times.
4. Check the Oil Fill Hole and, if necessary, top off the Oil Fill Hole with hydraulic oil.
5. Replace the Oil Filler Plug and close the Release Valve.
6. Test the equipment several times for proper operation before attempting to lift a load. If, after bleeding, the equipment still does not appear to be working properly, do not use the equipment until it has been repaired by a qualified service technician.

MAINTENANCE AND SERVICING



WARNING: Procedures not specifically explained in this manual must be performed only by a qualified technician.

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. BEFORE EACH USE, inspect the general condition of the tool. Check for:
 - loose hardware,
 - misalignment or binding of moving parts,
 - cracked or broken parts, and
 - any other condition that may affect its safe operation.
2. Before each use, thoroughly test the Ram for proper operation prior to its actual use. If the Ram appears to not be working properly, follow Bleeding instructions on page 6.
3. Change the hydraulic oil at least once every three years:
 - a. With the Ram fully lowered, remove the Oil Filler Plug on the side of the Housing.
 - b. Tip the Ram to allow the old hydraulic oil to drain out of the Housing completely, and dispose of the old hydraulic oil in accordance with local regulations.
 - c. With the Ram upright, completely fill the Housing with a high quality hydraulic oil (not included) until the oil just begins to run out of the Oil Fill Hole.
 - d. Open the valve Release Screw and pump the Handle to bleed air from the system.
 - e. Reinstall the Oil Filler Plug.
4. Wipe dry with a clean cloth. Then, store the Ram in a safe, dry location out of reach of children and other non-authorized people.

TROUBLESHOOTING

TO PREVENT SERIOUS INJURY: Use caution when troubleshooting malfunctioning ram. Stay clear of supported load. Completely resolve all problems before use. If solutions presented in Troubleshooting guide do not solve the problem, have a qualified technician inspect and repair ram before use. After ram is repaired: Test it carefully without a load by raising and lowering it fully, checking for proper operation, **BEFORE RETURNING RAM TO OPERATION.**

DO NOT USE A DAMAGED OR MALFUNCTIONING RAM!

| Symptom | Causes | Actions |
|---------------------------------------|---|---|
| Crane will not lift load | Release valve not closed tightly Overloading problem | Ensure release valve is done up tightly Correct overloading problem |
| Crane slowly lowers | Release valve not closed tightly Overloading problem Possible air trapped in hydraulic system | Ensure release valve is done up tightly Correct overloading problem With ram fully retracted(boom at lowest point), pinch oil filler plug with thumb and index finger and pump Crane plunger by hand to rid any excess air. NOTE: Process may need to be repeated multiple times |
| Poor lifting performance | Fluid level low Possible air trapped in hydraulic system | Ensure correct level of fluid in the ram With ram fully retracted(boom at lowest point), pinch oil filler plug with thumb and index finger and pump Crane plunger by hand to rid any excess air. NOTE: Process may need to be repeated multiple times |
| Crane will not lift to full extension | Fluid level low | Ensure correct level of fluid in the ram |

AIR BLEEDING PROCEEDURE

After transporting or prolonged storage air may enter the hydraulic system of the Engine Crane Ram. It is necessary to bleed the air from the system prior to use. Follow the below instructions to complete this procedure.

IMPORTANT! Before first use, check for proper hydraulic oil level and thoroughly test the equipment. If it does not work properly, bleed excess air from its hydraulic system as follows:

1. Open Release Valve and lower Ram completely.
2. Remove Oil Plug and fill with 500ml hydraulic oil (sold separately) to full level.
3. Apply downward pressure to the Boom and Pump the Ram Handle quickly several times.
4. Check the Oil Fill Hole and, if necessary, top off the Oil Fill Hole with hydraulic oil.
5. Replace the Oil Plug and close the Release Valve.
6. Test the equipment several times for proper operation before attempting to lift a load. If, after bleeding, the equipment still does not appear to be working properly, do not use the equipment until it has been repaired by a qualified service technician.

PARTS LIST

| Part No. | Description | Qty | Part No. | Description | Qty |
|----------|---------------------|-----|----------|---------------------|-----|
| 01 | Bolt M8x16 | 28 | 16 | Support Bracket | 2 |
| 02 | Spring Washer 8 | 28 | 17 | Flat Washer 16 | 6 |
| 03 | 3-1/2" Castor | 4 | 18 | Nut M16 | 6 |
| 04 | Folding leg | 2 | 19 | Bolt M16x90 | 3 |
| 05 | 3" Castor | 2 | 20 | Bolt M14x100 | 2 |
| 06 | Pin | 2 | 21 | Bolt M16x100 | 1 |
| 07 | Bead Ring | 2 | 22 | Handle Grip | 3 |
| 08 | "B" Insert Spring-1 | 2 | 23 | Push Handle | 1 |
| 09 | Spring Washer 12 | 2 | 24 | Bolt M20x110 | 1 |
| 10 | Nut M12 | 2 | 25 | Main Post | 1 |
| 11 | Flat Washer 12 | 2 | 26 | Boom Arm | 1 |
| 12 | Bolt M12x85 | 2 | 27 | Locking Pin | 2 |
| 13 | Fixing Plate | 2 | 28 | Flat Washer 20 | 1 |
| 14 | Bolt M16x80 | 2 | 29 | Nut M20 | 1 |
| 15 | Base | 1 | 30 | "B" Insert Spring-2 | 2 |

| | | | | | |
|----|----------------|---|----|----------------|---|
| 31 | Hydraulic Ram | 1 | 35 | Hook and Chain | 1 |
| 32 | Extension Boom | 1 | 36 | Handle | 1 |
| 33 | Flat Washer 14 | 3 | 37 | Bolt M14x80 | 1 |
| 34 | Nut M14 | 3 | | | |

