

ToolPRO

PLU: 657775
CODE: T31002CXA
Manufactured and packaged for
SRGS PTY LTD
ABN 23 113 230 050
6 Coulthards Avenue
Strathpine QLD 4500, Australia
MADE IN CHINA

ToolPRO

1 YEAR
WARRANTY



1000KG

FOLDING EXTENDABLE ENGINE CRANE

PLU 657775

WARRANTY

Our product is guaranteed to be free from quality and manufacturing defects for a period of 12 months.

If your product becomes defective during this period, SRGS PTY LTD will offer you either a replacement, credit or refund where a product is faulty; wrongly described; different from the sample shown to you or do not do what they are supposed to do.

This warranty will not cover substantially modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

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 failure does not amount to a major failure.

To claim the warranty, take the product to the front Service Desk of your nearest store of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim. Should you not be able to provide proof of purchase with a receipt or bank statement, identification showing name, address and signature may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you. For online store purchases, SRGS PTY LTD will pay for the return freight for any product assessed as having a major failure.

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

This warranty is provided by SRGS PTY LTD, 6 Coulthards Avenue, Strathpine QLD 4500, Australia. Phone: 1300 175 010.

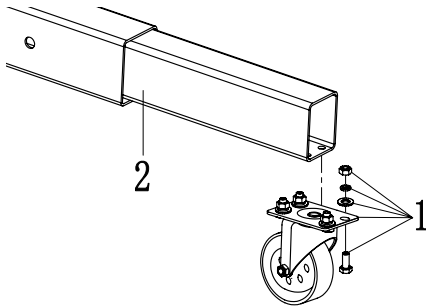
WARNING

1. Do not exceed the maximum capacity of each position. 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.
7. Modifications must not be carried out on this engine crane.

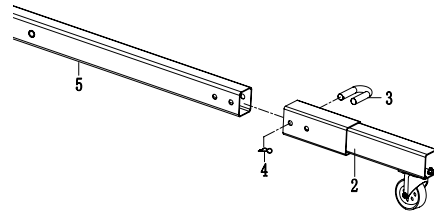
ASSEMBLY

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

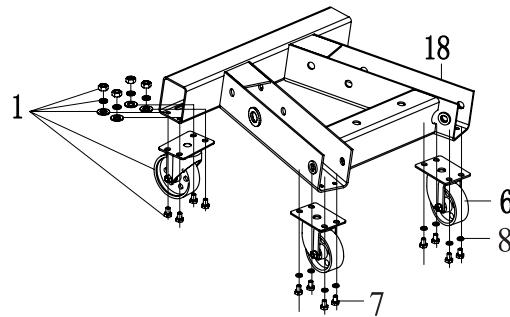
1. Fasten Castor Wheel (1) on the Extended Front Leg (2) with Bolts, washers, spring washers and nuts (Face bolts up when installing).



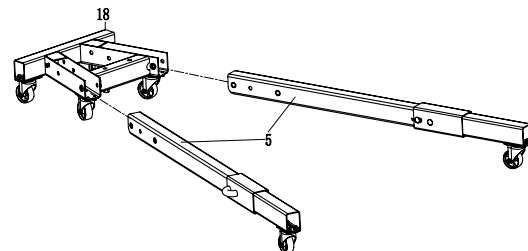
2. Slide the Extended Front Leg (2) into the Front Leg (5) with U Pin (3) and Hitch Pin (4).



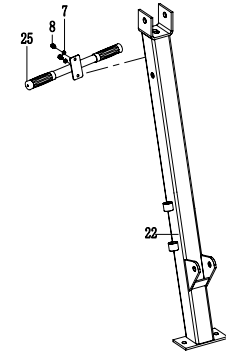
3. Fasten another two Castor Wheels (1) on the Frame Base (18) structure with Bolts, washers, spring washers and nuts (Face bolts up when installing).
Fasten the two Smaller Castor Wheels (6) on the Frame Base (18) with Bolts (7), Spring Washers (8). (Face bolts up when installing).



4. Slide the the Front Leg (5) into front of the Frame Base (18).



5. Use Bolts (7) and Spring Washers (8) to fasten the Handle (25) to the Post (22).



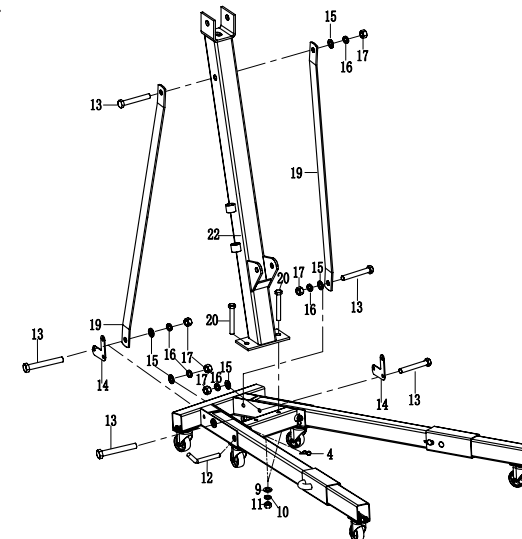
6. Use two Locking Pin (12) and Hitch Pins (4) to connct the Frame Base (18) and Front Legs (5).

Then use two Bolts (20), Washers (9), Spring Washers (10) and Nuts (11) to connect the Post (22) to the inside of the Frame Base (18).

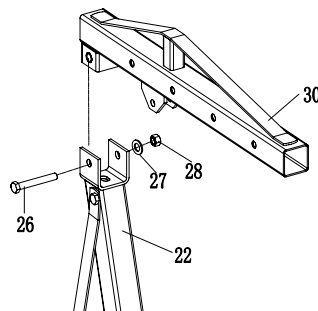
Then use two Bolts (13), Washers (15), Spring Washers (16) and Nut (17) to connect the Plate Bracket (14), Support Strap (19) to the Frame Base (18).

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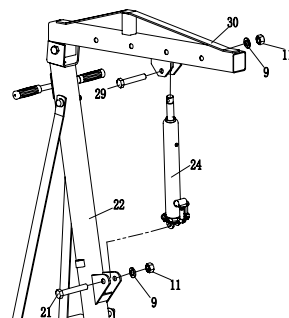
Then use Bolt (13), Washer (15), Spring Washer (16) and Nut (17) to connect the Support Strap (19) to the Post (22), check to make sure the nuts were tightened, and tighten the nuts.



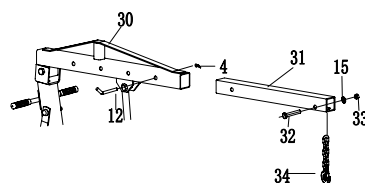
7. Use Bolt (26), Washer (27), Nut (28) to attach the Main Boom (30) to the top of the Post (22), tighten Nut (28) so that the Main Boom (30) can rotate freely, do not over tighten boom needs to be able to rotate freely.



8. Use Bolt (21), Washer (9) and Nut (11) to fasten the lower end of the Hydraulic Ram (24) to the Post (22). Then use Bolt (29), Washer (9) and Nut (11) to fasten the top of the Hydraulic ram to the Main Boom (30).



9. Slide the Extended Boom (31) into the Main Boom (30) with Locking Pin (12) and Hitch Pin (4). Use Bolt (32), Washer (15), and Nut (33) to attach the Hook and Chain (34) to the end of the Extended boom. (The boom has four different load ratings, select desired rating before use.)



OPERATING INSTRUCTIONS

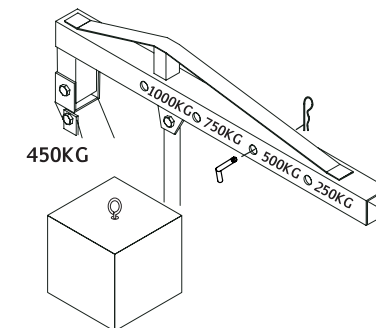


WARNING: Read ENTIRE IMPORTANT SAFETY INFORMATION section at beginning of this manual including all text under subheadings therein before set up or use of this product.

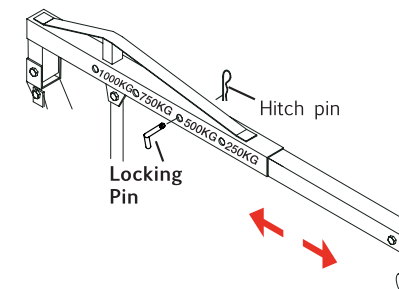
Lifting and Lowering

1. Locate the hole on the Main boom with a weight limit higher than the weight you will be lifting.

For example: Locate the 500KG hole on the Boom for a load that is under 500KG.



2. Adjust the Extended boom so the hole on Extended boom aligns with the chosen hole on the Main boom. Secure into place by inserting the Locking Pin through aligned hole and securing in place with the Hitch pin.



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.

3. Move the Crane so that the Hook and Chain are directly above the item to be lifted.
4. Securely attach the Hook and Chain to the item.
5. 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.

6. 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.

1. Lower the Crane all the way.
2. Remove Hitch pin from the front the Locking pin of Front legs. Remove the front Pins.
3. Raise the Legs until they rest toward base.
4. Insert the Locking pin into hole on fixing Plate bracket (14) on the base. Reinsert Hitch 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 up the Oil Fill Hole with hydraulic oil.
IMPORTANT: When adding or replacing oil, always use good grade of low viscosity HYDRAULIC FLUID.
- (Recommended ISO 32, SAE10 or equivalent).
Avoid mixing types of fluid.
DO NOT use Brake Fluid, Alcohol, Glycerine, Detergent, Motor Oil or Dirty 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

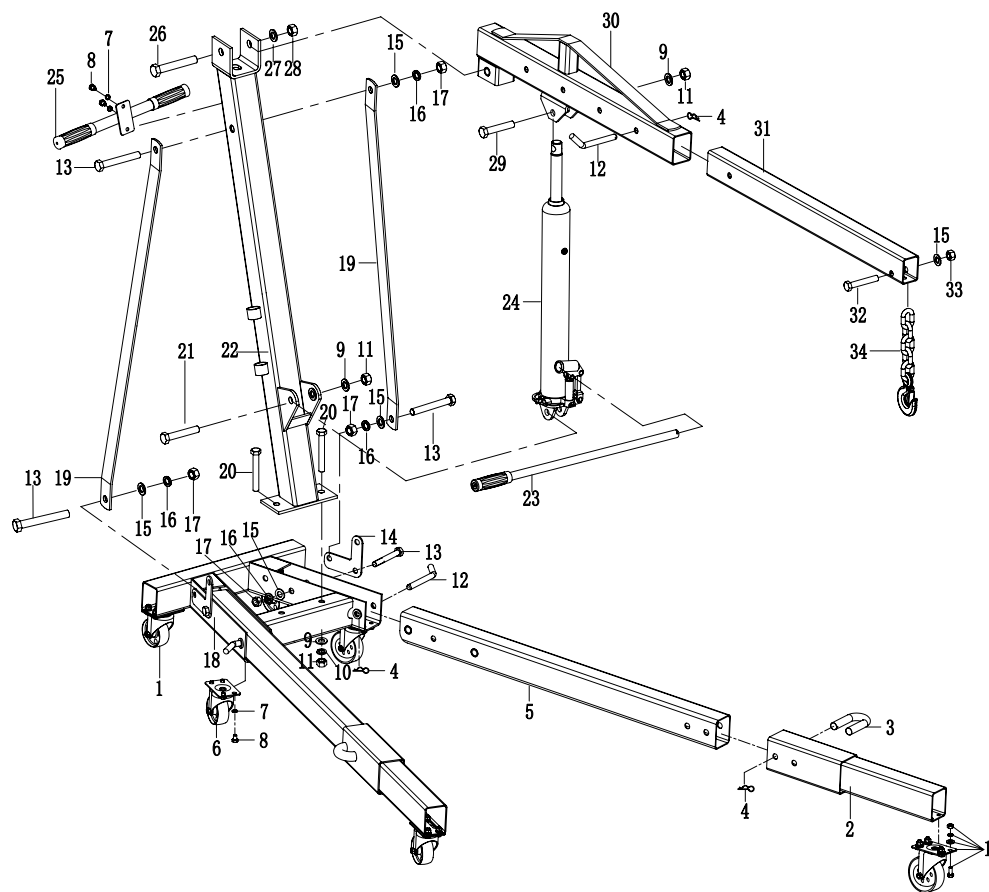
AIR BLEEDING PROCEEDURE

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 (ISO VG32, 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
1	Swivel Castor	4	16	Spring Washer M14	5
	Bolt M8x20	16	17	Nut M14	5
	Washer M8	16	18	Frame Base	1
	Spring Washer M8	16	19	Support Strap	2
	Nut M8	16	20	Bolt M16x110	2
2	Extended Front Leg	2	21	Bolt M16x90	1
3	U Pin	2	22	Post	1
4	Hitch Pin	5	23	Pump Handle	1
5	Front Leg	2	24	Hydraulic Ram	1
6	Smaller Castor Wheel	2	25	Handle	1
7	Bolt M8x10	10	26	Bolt M18x110	1
8	Spring Washer M8	10	27	Washer M18	1
9	Washer M16	4	28	Self-locking Nut M18	1
10	Spring Washer M16	2	29	Bolt M16x80	1
11	Nut M16	4	30	Main Boom	1
12	Locking Pin	3	31	Extended Boom	1
13	Bolt M14x100	5	32	Bolt M14x70	1
14	Plate Bracket	2	33	Self-locking Nut M14	1
15	Washer M14	6	34	Hook and Chain	1