



SHOP CRANE

LW701

INSTRUCTION MANUAL



IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY

Ensure you understand all safety requirements, warnings, and cautions before operation.

Forward

This engine crane is designed for removing, installing, and transporting automotive and light truck engines and engine assemblies in the lowered position, within its rated capacity. It must be used with appropriately rated engine levelers, slings, or chains (not included). After removal, immediately transfer the load to a properly rated workstation, such as an engine stand.

Main specifications:

Capacity (kg)	500-2000
Lifting height (mm)	2380
Height of crane (mm)	1450
Length of height (mm)	1550
G.W. (kg)	68-110
N.W. (kg)	66-108
Packing size (mm)	1# 1360*315*160
	2# 730*585*90

Safety Instructions

1. Keep Work Area Clean

Maintain a clutter-free workspace to reduce the risk of accidents and injuries.

2. Observe Work Area Conditions

Avoid using the crane in damp or wet areas. Protect it from rain, and always work in a well-lit environment to ensure visibility.

3. Keep Children Away

Never allow children in the work area to prevent accidents.

4. Store Idle Equipment Properly

When not in use, store the crane in a dry location to avoid rust. Secure tools and keep them out of children's reach.

5. Use the Right Tool for the Job

Only use the crane for its intended purpose. Do not modify or use it in ways not specified by the manufacturer.

6. Dress Properly

Avoid loose clothing or jewelry that could get caught in moving parts. Wear protective, non-conductive clothing, non skid footwear, and secure long hair. Always wear heavy work gloves and ANSI-approved impact safety goggles.

7. Do Not Overreach

Maintain proper footing and balance to avoid falls or loss of control during operation.

8. Maintain Tools with Care

Keep the crane clean for optimal performance. Follow the recommended maintenance and lubrication instructions, and replace accessories as needed.

9. Stay Alert

Never operate the crane if you are tired, distracted, or fatigued. Full attention is required for safe operation.

10. Inspect for Damaged Parts

Prior to each use, inspect the crane for any damage or wear. Ensure all components are in proper working condition.

11. Use Proper Replacement Parts and Accessories

Always use identical replacement parts and manufacturer-approved accessories when servicing the crane to maintain safety.

12. Avoid Operating Under the Influence

Do not operate the crane if you are under the influence of alcohol, drugs, or any substances that may impair your judgment or coordination.

13. Never Exceed Maximum Lifting Capacity

Always adhere to the crane's specified maximum load capacity. Avoid dynamic loading (e.g., swinging or sudden jerking), as it can cause damage or lead to serious injury or death.

14. Perform Regular Maintenance

Ensure the crane is regularly serviced by a qualified technician to maintain safety and functionality.

15. Not for Aircraft Use

This crane is not designed or approved for use in aircraft-related applications.

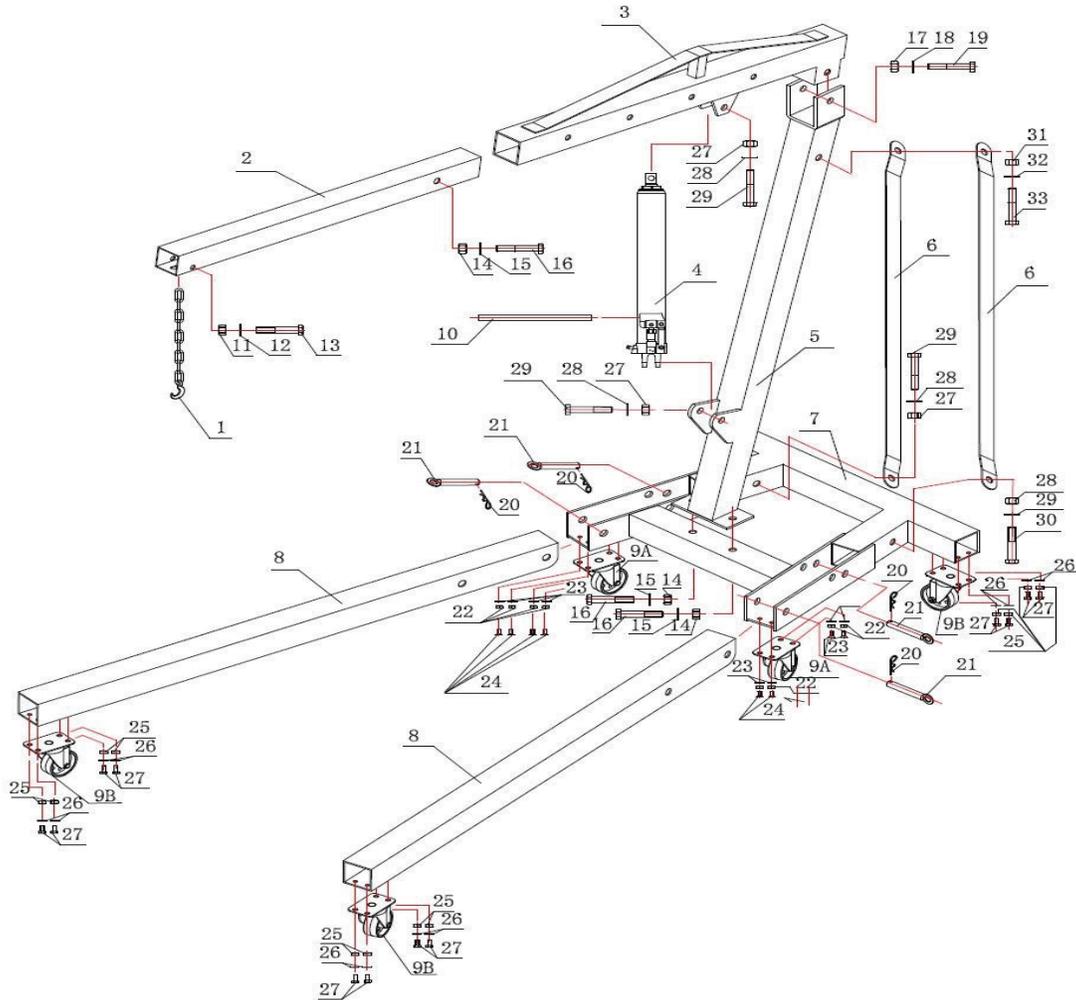
Operation Instructions

1. Raising the Extension Boom
 - Close the Release Valve on the Hydraulic Ram.
 - Pump the Handle until the Extension Boom reaches the desired height.
2. Extending the Extension Boom
 - Remove the bolt and nut securing the Extension Boom.
 - Pull the Extension Boom outward until the desired extension hole aligns with the hole in the Boom.
 - Reinsert the bolt through both holes and secure it with the nut.
3. **⚠ WARNING!** Maximum Lifting Capacity
 - Do not exceed the crane's maximum lifting capacity. Overloading may result in serious injury and/or property damage.
 - The longer the Extension Boom is extended, the lower the lifting capacity.
4. Positioning the Crane
 - Ensure the Hook is positioned directly above the object to be lifted.
5. **⚠ WARNING!** Stay Clear of the Crane
 - Never stand under a lifted load. If the Hook slips, the object may fall, causing serious injury and/or damage.
 - Always monitor the lifted object to prevent rocking or swinging.
6. Lifting and Moving the Load
 - Lower the Hook: Open the Release Valve slightly.
 - Attach the Hook: Securely fasten it to the object, ensuring the Safety Latch is fully closed.
 - Lift the Object: Close the Release Valve and pump the Handle to raise the object.
 - Transport the Load: Carefully move the crane to the desired location (e.g., engine stand, workbench, floor surface).
 - Lower the Object: Open the Release Valve slightly until the object is fully lowered.
7. After Use & Storage
 - Once the object is fully lowered, disconnect the Hook.
 - Store the Foldable Shop Crane (either folded or unfolded) in a clean, dry, and secure location, out of reach of children and unauthorized personnel.

Maintenance

1. Inspect Mounting Hardware
 - Before each use, check all mounting hardware to ensure it is secure.
2. Clean the Hook & Chain
 - Remove any dirt, grease, or debris to maintain proper function and safety.
3. Purging Air from the Hydraulic System (If the jack is not performing as expected)
 - a) Ensure the Ram is fully lowered.
 - b) Remove the Oil Fill Plug and top off with hydraulic fluid.
 - c) Raise the Ram to its maximum height.
 - d) Loosen the Release Valve and push the Ram down completely.
 - e) Refill with hydraulic fluid, replace the plug, and repeat if necessary.
4. Cleaning
 - Use a damp cloth and a mild detergent to clean the crane.
 - Do not use solvents or flammable agents.
5. Hydraulic Oil Maintenance
 - If lifting performance decreases, check the hydraulic oil level in the Oil Tank.
 - Refill with hydraulic oil as needed.

Parts List



Part No.	Model	Description	Qty
1	LW705	Hook	1
2	-	Extension Boom	1
3	-	Boom	1
4	LW707	Pump	1
5	-	Support Post	1
6	-	Support Brace	2
7	-	Base	1
8	-	Leg	2
9A	LW702	3" Caster Wheel	2
9B	LW703	3.5" Caster Wheel	4
10	LW706	Pump Handle	1
11	LW705	Nut M12	1
12		Washer Φ 12	1
13		Bolt M12x75	1
14	-	Nut M14	3
15	-	Washer Φ 14	3
16	-	Bolt M14x90	3
HD	LW704	Hardware Pack	1

Part No.	Model	Description	Qty
17	-	Nut M16	1
18	-	Washer Φ 16	1
19	-	Bolt M16x110	1
20	-	Wire-Steel Cotter Pin	2
21	-	Round Pin	4
22	-	Nut M8	8
23	-	Washer Φ 8	8
24	-	Flat Shoulder Bolt M8x16	8
25	-	Nut M8	16
26	-	Washer Φ 8	16
27	-	Bolt M8x16	16
28	-	Nut M16	4
29	-	Washer Φ 16	4
30	-	Bolt M16x90	4
31	-	Nut M16	1
32	-	Washer Φ 16	1
33	-	Bolt M16x100	1
	LW708	Push Handle (includes hardware)	1