

Owner's Manual

Pickup Truck Bed Mounted Crane

555-81064



Performance Products

1-800-345-4545 jegis.com

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Read Before Installation

Safety Information

Thank you for purchasing the JEGS Pickup Truck Bed Mounted Crane.

Read this guide before putting your crane to use. Failure to do so can result in serious injury or property damage.

SAVE THIS MANUAL.

In this manual, you will find the following useful information.

- Safety warnings
- Precautions
- Assembly procedures
- Operating procedures
- Inspection procedures
- Maintenance procedures
- Cleaning procedures

Write the product's serial number in the back of the manual (or month and year of purchase if product has no number).

Keep this manual and the receipt in a safe and dry place for future reference.

For assistance or questions please contact the JEGS Tech Department at:
1-800-345-4545

1. Read, understand, and follow all of the instructions before installing or operating this device.
2. Attach to the frame of the truck bed according to manual's instructions only. Verify that installation surface has no hidden components or brake lines before drilling any holes or installing.
3. Engage parking brake before use. Do not move the vehicle with a load attached to the crane.
4. Do not exceed rated capacity.
5. Use only slings or chains with a rated capacity greater than the weight of the load being lifted.
6. Do not allow load to swing or drop violently while lowering or moving.
7. No alterations shall be made to this product. Do not adjust safety valve.
8. Keep clear from underneath suspended load. Do not lift people or lift load over people.
9. Capacity decreases as boom lengthens. Follow capacities marked on boom.
10. Replacement ram must have same rating, mounting points, and length.
11. Wear ANSI-approved safety goggles, heavy-duty work gloves, and steel-toed work boots during installation and use.
12. Do not use for aircraft purposes.
13. Inspect before every use; do not use if parts are loose or damaged.
14. Before driving vehicle, lower boom and position over truck's wheel well, then insert large lock pin to prevent boom from swiveling.



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Safety Information Continued

15. Attach load to the crane's hook securely by using appropriate equipment, such as chains, shackles, hooks, lifting slings, etc. The load must be attached to prevent accidental disconnection.
16. Properly seat sling or other device in hook and fully close the hook's safety clasp. Do not allow the hook hitch to support any part of load. Do not apply load to the point of the hook.
17. Stay alert. Watch what you're doing, and use common sense when operating the crane.
18. Do not use crane while tired or under the influence of drugs, alcohol, or medication. A moment of inattention may result in serious personal injury.
19. Keep children and bystanders away while operating the crane. Distractions can cause you to lose control.
20. Have Crane serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the crane is maintained.
21. Maintain labels and nameplates. These carry important information.
22. The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

Ram Safety Warnings

1. Attach securely to Crane before use.
2. Do not exceed rated capacity.
3. Do not adjust safety valve.
4. Keep clear of the load while lifting and lowering to prevent injury.
5. Lower load slowly.
6. Be aware of dynamic loading! Sudden load movement may briefly create excess load causing product failure.

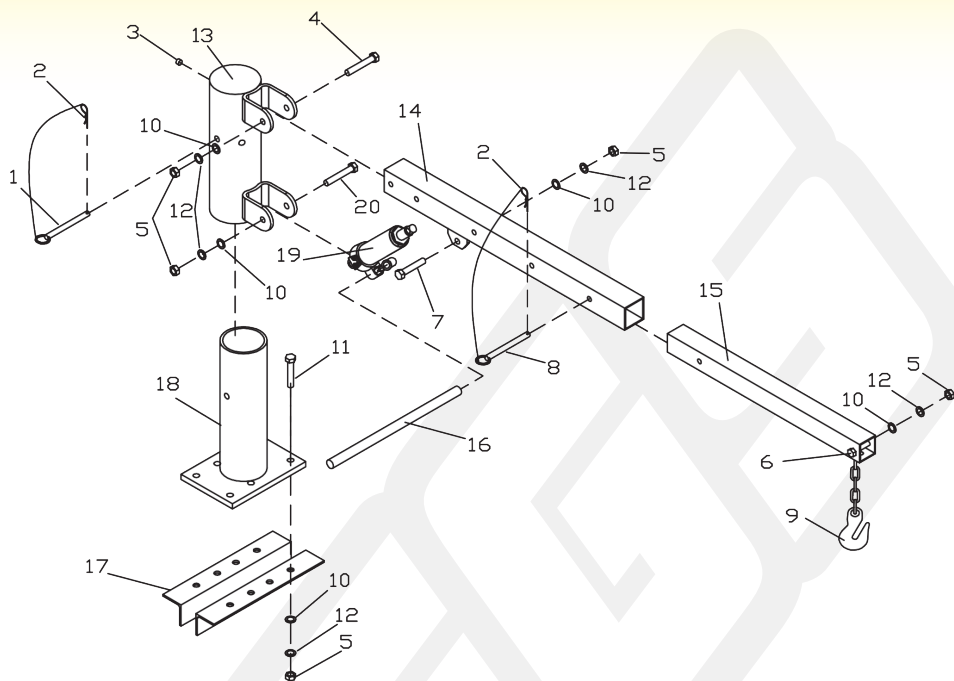
Specifications

Rated Capacity	1,000 lbs.
Boom Length: Max	53 1/2"
Boom Length: Min.	33 3/8"
Chain	7 1/2" L. x 3/8" D.
Hook Opening	3/4"

Capacities

Capacity (Lbs.)	Boom Length
500	53 1/2"
600	47 1/2"
700	41 1/2"
1,000	33 3/8"

Diagram



PART	DESC.	QTY	PART	DESC.	QTY
1	Large Lock Pin	1	11	Bolt (M12 x 50)	6
2	R Pin	2	12	Spring Washer (M12)	10
3	Grease Fitting	1	13	Post	1
4	Bolt (M12 x 100)	1	14	Boom	1
5	Nut (M12)	10	15	Boom Extension	1
6	Bolt (M12 x 70)	1	16	Ram Handle	1
7	Bolt (M12 x 60)	1	17	Mounting Plate	2
8	Small Lock Pin	1	18	Base	1
9	Hook & Chain	1	19	Ram	1
10	Washer (M12)	10	20	Bolt (M12 x 90)	1

Assembly Instructions

WARNING:

The Base must be securely bolted to the frame of the truck bed.

Bolting the Base to the truck bed will not provide necessary support and could result in product failure and serious bodily injury.

1. Locate a mounting position so the Crane will be near end of truck bed and can be attached to frame.
2. Use the Base to mark drilling holes. Drill holes.
3. Mount Base to frame using Nuts (5), Spring Washers (12), Washers (10), Mounting Plates (17) and Bolts (11). **Figure 1**
4. Slide Post (13) onto Base (18) and secure using Large Lock Pin (1). **Figure 2**
5. Attach Ram (19) to Lower Post Bracket using Bolt (20), Washer (10), Spring Washer (12) and Nut (5). **Figure 3**
6. Attach Boom (14), Bracket facing down, to Upper Post Bracket using Bolt (4), Spring Washer (12) Washer (10) and Nut (5).
7. Connect Boom Bracket to Ram using Bolt (7), Spring Washer (12), Washer (10), and Nut (5).
8. Slide Boom Extension (15) into Boom with Oval Hole facing down. Secure with Small Lock Pin (8). **Figure 4**
9. Connect Hook and Chain (9) to Boom Extension by putting end link through Oval Hole and securing with Bolt (6), Spring Washer (12), Washer (10) and Nut (5).
10. Thread Grease Fitting (3) into Post.

NOTE:

Verify that the installation area does not have any hidden components.

Check for brake lines, wiring or other components that may be damaged during installation.

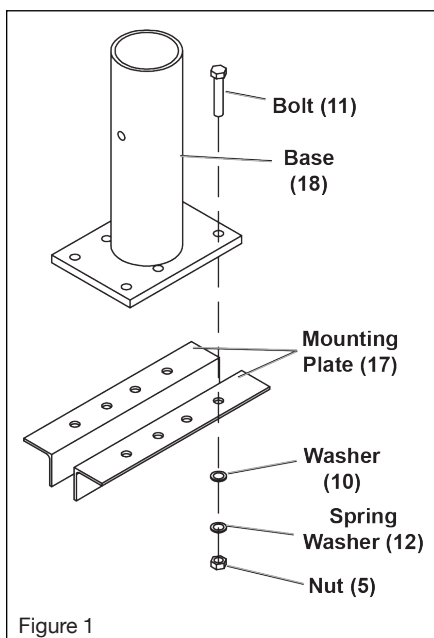


Figure 1

Assembly Instructions Continued

Bleeding Instructions

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

1. Remove oil fill plug. Fill with hydraulic oil to full level, if necessary. (Hydraulic oil is sold separately)
2. Open release valve by turning counter-clockwise with ram handle.
3. Insert handle into the ram fulcrum, apply downward pressure to boom, and then pump the handle quickly several times.
4. Check oil level and, if necessary, top off with hydraulic oil.
5. Close the release valve and replace the oil fill plug.
6. Test crane several times for proper operation before lifting a load.
7. If, after bleeding, the Crane still does not appear to be working properly, do not use until repaired by a qualified service technician.

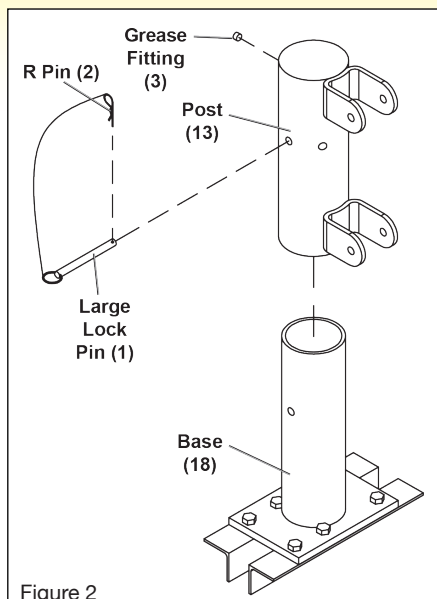


Figure 2

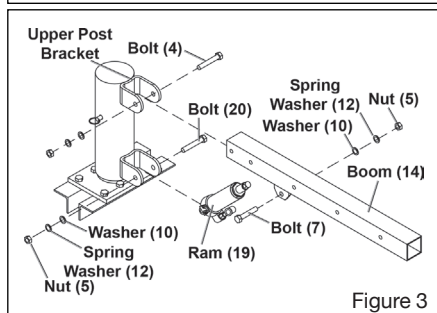


Figure 3

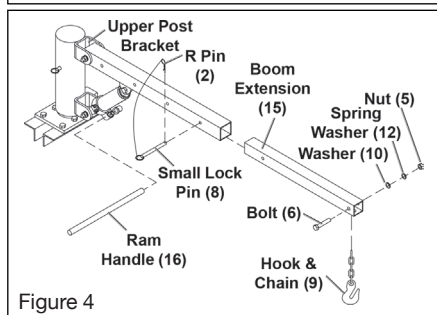


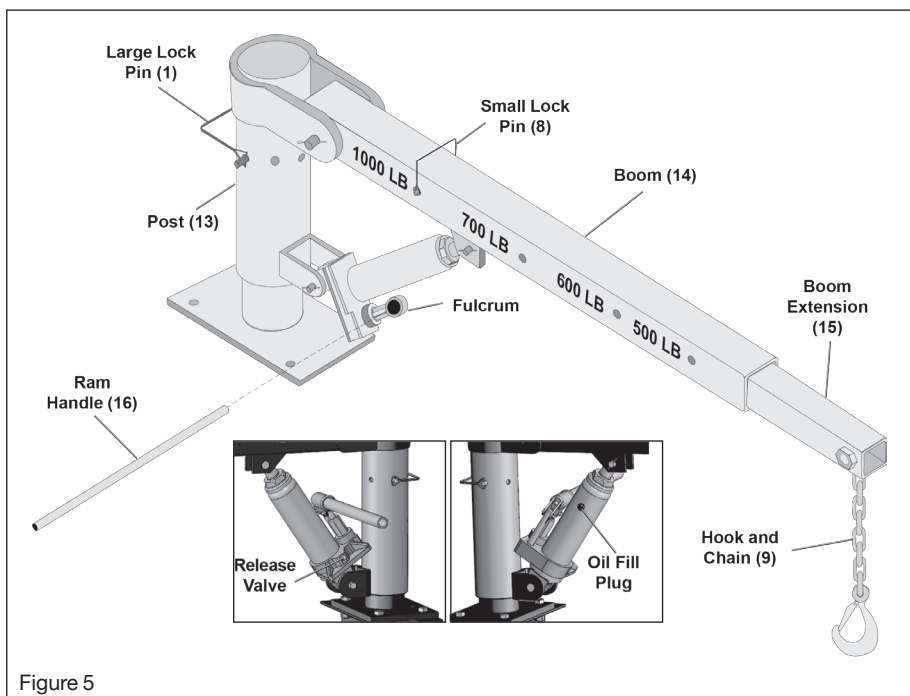
Figure 4

Operating the Crane

WARNING:

The crane's boom extension has four positions. Each position has a weight capacity marked on the boom. DO NOT lift more than rated capacity.

Be aware of dynamic loading! Sudden load movement may briefly create excess load causing product failure and serious bodily injury.



NOTE:

Ensure that all bolts are tight before initial use.

Operating the Crane: Loading

1. Remove large lock pin and swivel the boom so the hook is over the load. If necessary, remove the small lock pin, adjust the boom extension, then replace the small lock pin.
2. Make sure boom will handle load when it is extended. See chart on Pg 2.
3. Lower the boom until the hook can be attached to load.
4. Attach the hook to the properly secured load, giving specific attention to load balancing.
5. Before lifting the load, make sure chain is not kinked or twisted.
6. To lift load:
 - Make sure the release valve is fully closed by turning the ram handle clockwise.
 - Pump the ram handle until load has been lifted high enough to clear truck bed.
7. To move load: Swivel the boom until the load is directly over the truck bed.
8. To lower load: Slowly open the release valve by turning the ram handle counter-clockwise.
9. Remove the hook only after load has been lowered completely.
10. Before driving vehicle, lower the boom and position over truck's wheel well, then insert the large lock pin to prevent the boom from swiveling.

WARNING:

*Engage parking brake before use.
Do not move vehicle with load
attached to Crane.*

Operating the Crane: Unloading

1. Remove large lock pin.
2. Swivel and lift the boom so the hook is over load. If necessary, remove small lock pin, adjust the boom extension, then replace the small lock pin.
3. Make sure the boom will handle load when it is extended. See chart on Pg 2.
4. Attach the hook to properly secured load, giving specific attention to load balancing.
5. Before lifting load, make sure chain is not kinked or twisted.
6. To lift load:
 - Make sure the release valve is closed by turning the ram handle clockwise.
 - Pump the ram handle until load has raised high enough to just clear truck bed.
7. To move load: Swivel the boom until load is safely away from truck bed and over a level, flat surface.
8. To lower load: Slowly open the release valve by turning the ram handle counter-clockwise.
9. Before driving vehicle, lower the boom and position over truck's wheel well, then insert the large lock pin to prevent the boom from swiveling.

WARNING:

*Do not attempt to extend or
retract Boom while load is attached.*

Maintenance and Servicing

Troubleshooting

Before each use, inspect the general condition of the crane.

1. Check for:
 - Loose hardware
 - Misalignment or binding of moving parts
 - Cracked or broken parts
 - Any other condition that may affect its safe operation.
2. Lubricate the grease fitting with a grease gun once a month, or when the boom becomes difficult to swivel on the post.
3. Change the hydraulic oil at least once every year:
 - Remove ram from crane. Lower ram completely.
 - Remove oil fill plug.
 - Tip ram to allow old hydraulic oil to completely drain out.
 - Dispose of old hydraulic oil in accordance with local regulations.
 - With the ram upright, fill with hydraulic oil to full level.
 - Open the valve release screw and pump the ram handle to bleed air from the system (see Bleeding Instructions on pg. 5).
 - Reinstall oil fill plug.
 - Reinstall ram onto crane.
4. Top assembly may be removed and stored indoors in a dry, safe place out of the reach of children.

TO PREVENT SERIOUS INJURY:

Use caution when troubleshooting a malfunctioning crane. Stay clear of supported load. Completely resolve all problems before use.

If solutions presented in the Troubleshooting guide do not solve the problem, have a qualified technician inspect and repair the crane before use.

After the crane has been repaired: Test it carefully without a load by raising and lowering it fully, checking for proper operation, **BEFORE RETURNING CRANE TO OPERATION.**

Refer the troubleshooting guide on the following page for a range of possible symptoms and solutions.

NOTE:

If crane is exposed to wet conditions, more frequent lubrication may be necessary to prevent buildup of rust.

Troubleshooting Guide

POSSIBLE SYMPTOMS						PROBABLE SOLUTION (Make certain that the Crane is not supporting a load while attempting a solution.)
Ram will not lift at its weight capacity	Hook lowers under load	Pump stroke feels spongy	Hook will not lift all the way	Handle moves up when Ram is under load	Oil leaking from Fill Plug	
X	X					Check that Release Valve is closed fully. Bleed air from the system.
X	X			X		Valve may be blocked and may not close fully. To flush the valve: 1. Lower the Boom and securely close the Release Valve. 2. Manually lift the Boom several inches. 3. Open the Release Valve and force the Boom down as quickly as possible.
X		X	X			Ram may be low on oil. Check the oil level and refill if needed.
					X	Ram may require bleeding - see Bleeding Instructions on page 6.
						Unit may have too much hydraulic oil inside; check fluid level and adjust if needed.

If you have any issues, or if this Truck Bed Mounted Crane is damaged,
please contact Customer Service at: 1.800.345.4545.

Return Information:

Once this crane has been modified, it will not be accepted for return.



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