



PLEASE READ THE ENTIRE CONTENTS OF THIS MANUAL PRIOR TO INSTALLATION AND OPERATION. BY PROCEEDING YOU AGREE THAT YOU FULLY UNDERSTAND AND COMPREHEND THE FULL CONTENTS OF THIS MANUAL. FORWARD THIS MANUAL TO ALL OPERATORS. FAILURE TO OPERATE THIS EQUIPMENT AS DIRECTED MAY CAUSE INJURY OR DEATH.

REV D1 05-23-24  
P/N: 5900969

## INSTALLATION AND OPERATION MANUAL

### 2-Ton Hydraulic Folding Shop Crane

Model: RSC-2TF



#### READ FIRST



Do not operate this machine until you read and understand all the dangers, warnings and cautions in this manual.

Keep this operation manual near the machine at all times. Make sure that ALL USERS read this manual.

#### SHIPPING DAMAGE CLAIMS

When this equipment is shipped, title passes to the purchaser upon receipt from the carrier. Consequently, claims for the material damaged in shipment must be made by the purchaser against the transportation company at the time shipment is received.

#### BE SAFE

Your new Shop Crane was designed and built with safety in mind. However, your overall safety can be increased by proper training and thoughtful operation on the part of the operator. DO NOT operate or repair this equipment without reading this manual and the important safety instructions shown inside.

# Ranger®

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# **RANGER RSC-2TF HYDRAULIC SHOP CRANE**

This instruction manual has been prepared specifically for you. Your new Hydraulic Shop Crane is the product of over 40 years of continuing research, testing and development; it is the most technically advanced Hydraulic Shop Crane on the market today. The manner in which you care for and maintain your Hydraulic Shop Crane will have a direct effect on its overall performance and longevity.

## **READ THIS ENTIRE MANUAL BEFORE INSTALLATION & OPERATION BEGINS.**

### **PRODUCT WARRANTY**

Your new RSC-2TF 2-Ton Hydraulic Folding Shop Crane is covered under warranty for one year on the equipment structure; one year on all operating components and tooling/accessories, to the original purchaser, to be free of defects in material and workmanship. The manufacturer shall repair or replace at their option for this period those parts returned to the factory freight prepaid which prove upon inspection to be defective. The manufacturer will pay labor costs for the first 12 months only on parts returned as previously described.

The warranty does not extend to:

- ◆ defects caused by ordinary wear, abuse, misuse, negligence, shipping damage, improper installation, voltage or lack of required maintenance.
- ◆ damages resulting from purchaser's neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) and/or other accompanying instructions supplied.
- ◆ normal wear items or service normally required to maintain the product in a safe operating condition.
- ◆ any component damaged in shipment.
- ◆ other items not listed but may be considered general wear parts.
- ◆ damage caused by rain, excessive humidity, corrosive environments or other contaminants.

THESE WARRANTIES DO NOT EXTEND TO ANY COSMETIC DEFECT NOT INTERFERING WITH EQUIPMENT FUNCTIONALITY OR ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF A BENDPAK, INC. / RANGER PRODUCT OR THE BREACH OR DELAY IN PERFORMANCE OF THE WARRANTY.

For more information about warranty, please visit:

[www.rangerproducts.com/warranty](http://www.rangerproducts.com/warranty)

## DEFINITIONS OF HAZARD LEVELS

Identify the hazard levels used in this manual with the following definitions and signal words:



The Danger Symbol indicates immediate hazards which will result in severe personal injury or death.



The Warning Symbol indicates Hazards or unsafe practices which could result in severe personal injury or death.



The Caution Symbol indicates Hazards or unsafe practices which may result in minor personal injury or product and/or property damage.

Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to the operator, bystanders or damage to property.

Do not operate this machine until you read and understand all the dangers, warnings and cautions in this manual.

For additional copies  
or further information, contact:

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[www.rangerproducts.com](http://www.rangerproducts.com)



## OPERATOR PROTECTIVE EQUIPMENT

Personal protective equipment helps keep equipment use safer. However, safety equipment does not take the place of safe operating practices. Always wear durable work clothing. Shop aprons or shop coats may also be worn, however loose fitting clothing should be avoided. Tight fitting leather gloves are recommended to protect operators. Sturdy leather work shoes with steel toes and oil resistant soles should be used by personnel to help prevent injury in typical shop activities. Eye protection is essential during installation and operation activities. Safety glasses with side shields, goggles, or face shields are acceptable. Back belts provide support during lifting activities and are also helpful in providing operator protection. Consideration should also be given to the use of hearing protection if activity is performed in an enclosed area, or if noise levels are high.



## OWNER'S RESPONSIBILITY

To maintain machine and user safety, the responsibility of the owner is to read and follow these instructions:

- ◆ Follow all installation instructions.
- ◆ Make sure the installation and use conforms to all applicable Local, State, and Federal Codes, Rules, and Regulations.
- ◆ Carefully check the unit for correct initial function.
- ◆ Read and follow the safety instructions. Keep them readily available for machine operators.
- ◆ Make certain all operators are properly trained, know how to safely and correctly operate the unit.
- ◆ Allow unit operation only with all parts in place and operating safely.
- ◆ Carefully inspect the unit on a regular basis and perform all maintenance as required.
- ◆ Service and maintain the unit only with authorized or approved replacement parts.
- ◆ Keep all instructions permanently with the unit and all decal's on the unit clean and visible.



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL HEALTH AND SAFETY OF PERSONNEL AND/OR PROPERTY. READ AND UNDERSTAND ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE THIS MACHINE.

## IMPORTANT SAFETY INSTRUCTIONS

Read these safety instructions entirely.



1. **READ AND UNDERSTAND** all safety warning procedures before operating equipment.

2. **KEEP HANDS AND FEET CLEAR.** Remove hands and feet from any moving parts.

3. **KEEP WORK AREA CLEAN.** Cluttered work areas invite injuries.

4. Consider work area environment. Do not expose equipment to rain. **DO NOT** use in damp or wet locations. Keep area well lighted.

5. **ONLY TRAINED OPERATORS** should operate this equipment. All non-trained personnel should be kept away from work area. Never let untrained personnel come in contact with, or operate machine.

6. **USE MACHINE CORRECTLY.** Use machine in the proper manner.

7. **DRESS PROPERLY.** Non-skid steel-toe footwear is recommended when operating machine.

8. **MAINTAIN WITH CARE.** Keep unit clean for better and safe performance. Follow manual for proper lubrication and maintenance instructions.

9. **DO NOT LOAD** this shop crane beyond it's rated capacity for each boom position.

10. Before moving the shop crane, lower the load to the lowest position possible.

11. **DO NOT** allow the load to swing violently or drop suddenly during lowering or moving.

12. This shop crane is designed for use only on **hard level surfaces** capable of sustaining the load. Do **NOT** use on broken or damaged concrete. Do not use on surfaces other than concrete.

13. **STAY ALERT.** Watch what you are doing. Use common sense. Be aware.

14. **CHECK FOR DAMAGED PARTS.** Check for condition of all moving parts, breakage of parts or any condition that may affect the machines operation. Do not use if any component is broken or damaged.



15. **NEVER** remove safety-related components or devices from the machine. Do not use if safety related components are damaged or missing.

16. Unreadable and missing warning labels must be replaced immediately.

17. **NO MODIFICATIONS** should be made to this shop crane. Repairs to this equipment should be performed by a qualified technician.

18. **DO NOT OPERATE** this Shop Crane if under the influence of alcohol or drugs.

19. **STAY ALERT.** Do not operate this unit when you are tired.

20. Not to be used for aircraft purposes.



## UN-CRATING / PACKING INSTRUCTIONS

Carefully remove the crating and packing materials and all skid and pallet fasteners.

Be careful when cutting steel banding material as items may become loose and fall causing personal harm or injury. Always wear gloves when un-crating the machine to prevent scratches, abrasions, or cuts due to the contact with packing materials.

## TOOLS REQUIRED

Adjustable Wrenches or Metric open end / combination wrenches.

**NOTE:** It is recommended to use two persons during the assembly procedure.



## INSTALLATION INSTRUCTIONS

Refer to the Parts Breakdown, Pg. 11

### 1. Retrieve the following:

Qty.	Description	Item #
2	Base Extensions	9
2	Leg	8
4	Ø90mm Large Casters	35
16	Bolt M8 x 16 mm	27
16	Lock Washer Ø8 mm	26
16	Flat Washer	23
16	Hex Nut M8	25

Secure the two Large Casters (90 mm) to each Leg using four of the Bolts, Washers and Nuts on each Caster.

Secure the remaining two Large Casters on each Base Extension using four of the Bolts, Washers and Nuts on each Caster (see Fig. 1).

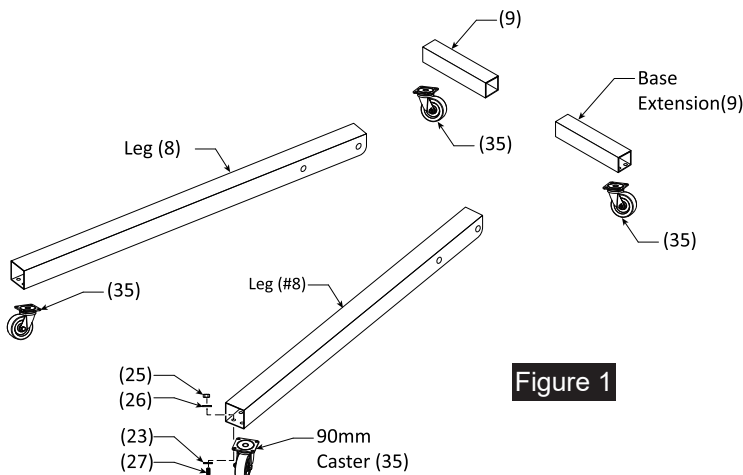


Figure 1

### 2. Retrieve the following:

Qty.	Description	Item #
1	Base	7
2	Ø75mm Small Caster	36
8	Bolt M8 x 12 mm	24
8	Washer Ø8 mm	23
8	Lock Washer Ø8	26

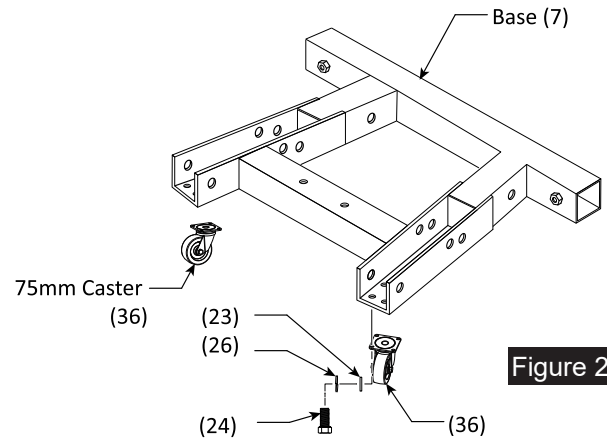


Figure 2

Secure the two Small Casters (75 mm) to the Base using four of the M8 x 12 Bolts, M8 Flat Washers and Lock Washers on each Caster (see Fig. 2).

**3.** Retrieve the two Legs (8), four Ring Pins (21) and Four Wire-Steel Cotter Pins (20). Assemble the Legs to the Base Assembly and secure with the Ring Pins and Steel Cotter Pins.

**Note:** Lift up on the front of the Base Assembly until the holes align (See Fig. 3).

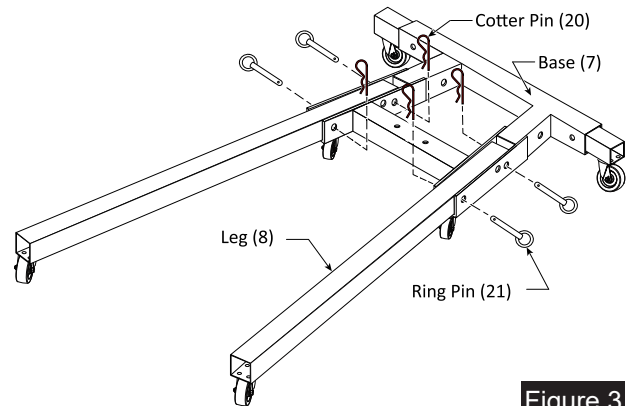


Figure 3

**IMPORTANT:** Verify all Ring Pins are secured with a Cotter Pin before proceeding.

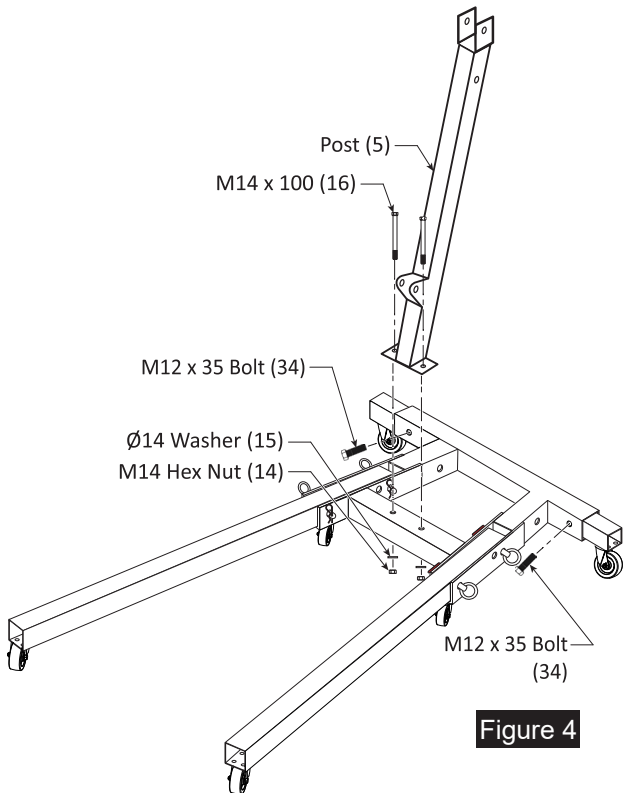
### 4. Retrieve the following:

Qty.	Description	Item #
1	Post	5
2	Bolt M14 x 100	16
2	Washer Ø14 mm	15
2	Hex Nut M14	14
2	Bolt M12 x 35	34

Secure the Post (5) to the Base Assembly using two M14 Bolts, washers and Hex Nuts.

**Note:** Leave these Bolts loose until step 5.

Secure the Base Extensions using Two M12 x 35 mm Bolts, one bolt to secure each extension (see fig. 4).



**Figure 4**

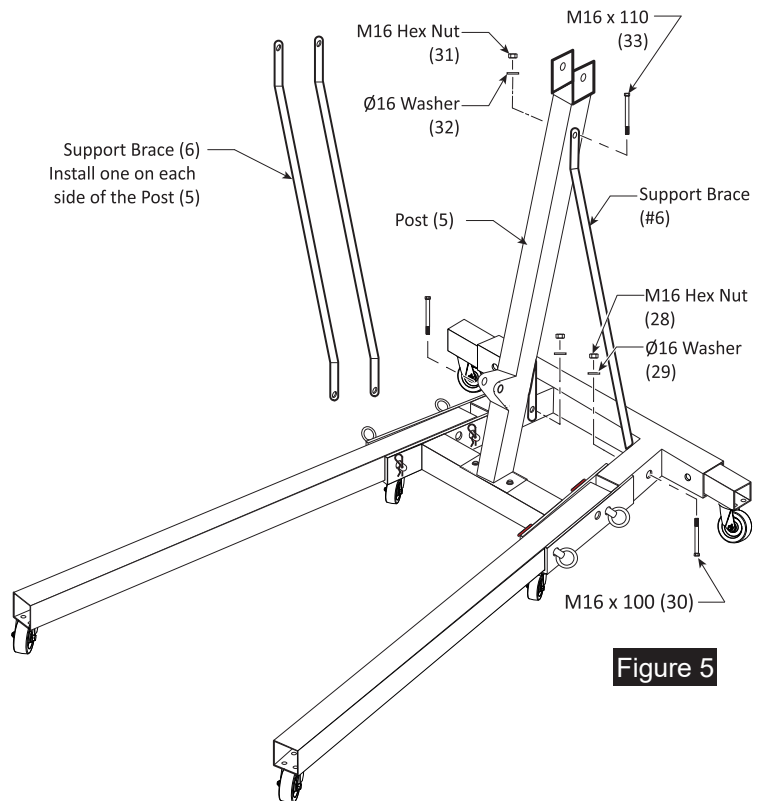
5. Retrieve the following:

Qty.	Description	Item #
2	Support Brace	6
2	M16 x 100 mm Bolt	30
2	Ø16 Washer	29
2	M16 Hex Nut	28
1	M16 x 110 mm Bolt	33
1	Ø16 Washer	32
1	M16 Hex Nut	31

Assemble the Support Braces to the Base Assembly, using two M16 x 100 Bolts (30), Ø16mm Washers (29), and M16 Hex Nuts (28).

Use one M16 x 110 Bolt (33), Ø16mm Washer (32) and M16 Hex Nut (31) at the top of the supports to secure them to the Post (5).

After the Supports are in place, systematically tighten all Bolts (see Fig. 5).

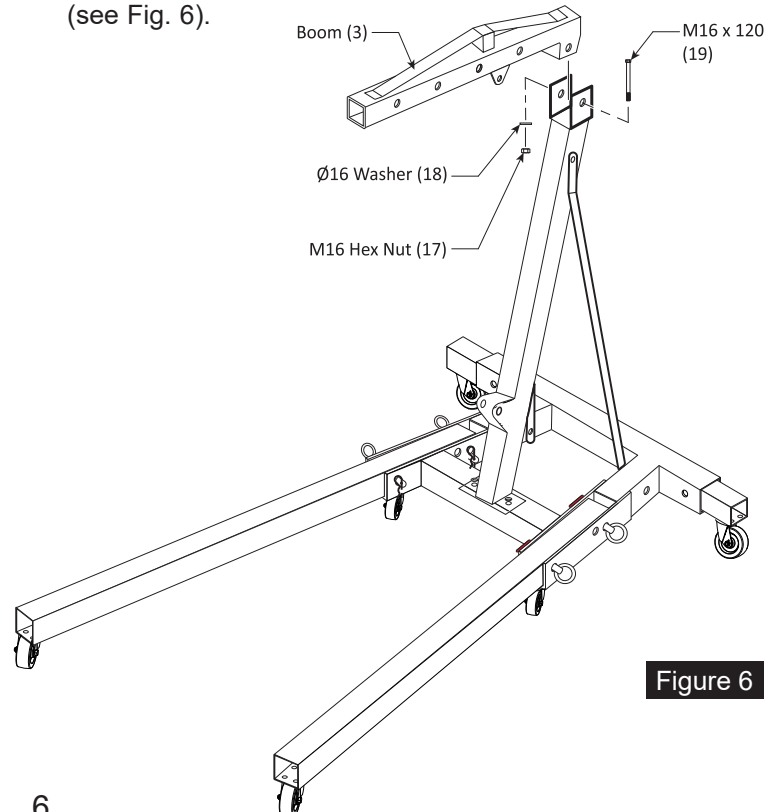


**Figure 5**

6. Retrieve the following:

Qty.	Description	Item #
1	Boom	3
1	M16 x 120 mm Bolt	19
1	Flat Washer Ø16	18
1	M16 Hex Nut	17

Attach the Boom to the Post and secure with the M16 x 120mm Bolt (19), the Ø16 Washer, and M16 Hex Nut. (see Fig. 6).



**Figure 6**



7. Retrieve the following components:

Qty.	Description	Item #
1	Long Ram Jack	4
1	M16 x 80 mm Bolt	37
1	M16 x 90 mm Bolt	38
2	Ø16 Washer	29
2	M16 Hex Nut	17

Insert the lower end of the Jack into the Post bracket and secure using the M16 x 90 mm Bolt (38), Ø16 Washer and M16 Hex Nut. Lift the Crane Boom by hand and then secure the Top of the Jack to the Boom bracket using the M16 x 80 mm Bolt (37), Ø16 Washer (29) and M16 Hex Nut (28), (See Fig. 7).

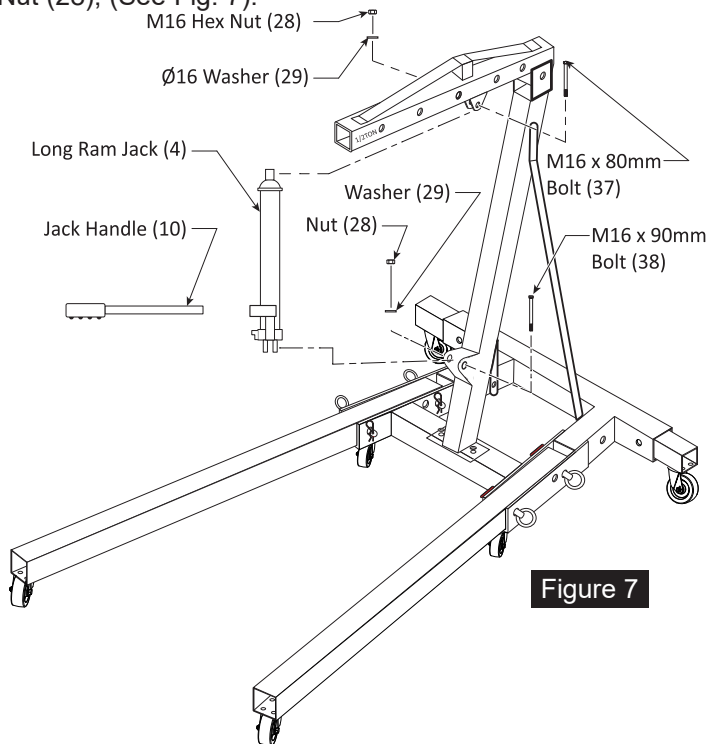


Figure 7

8. Use the Jack to Position the Crane Boom almost level then slide the Boom Extension (2) into the Boom (3) and secure it at the desired load rating using the M14 x 100 mm Bolt (16), Ø14 Washer (15), and M14 Hex Nut (14), (see Fig. 8).

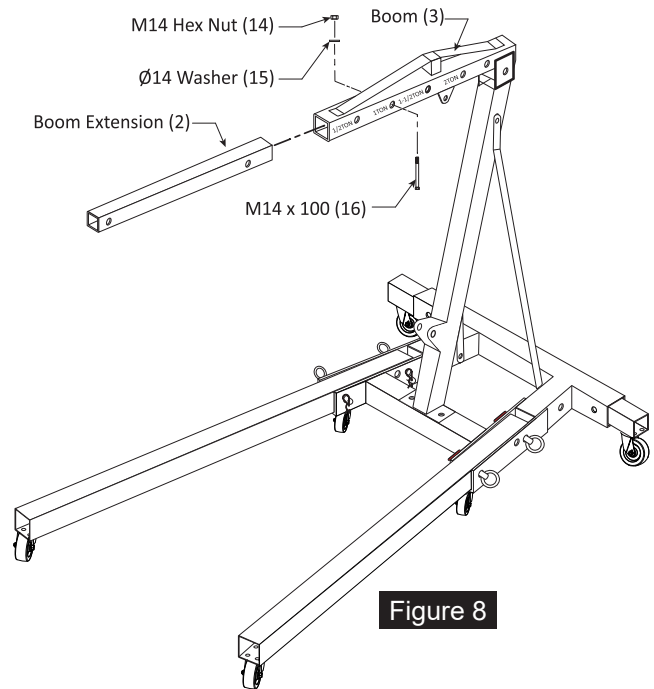


Figure 8

9. Retrieve the following components:

Qty.	Description	Item #
1	Hook and Chain	1
1	M12 x 75 mm Bolt	13
1	Ø12 Flat Washer	12
2	M12 Hex Nut	11

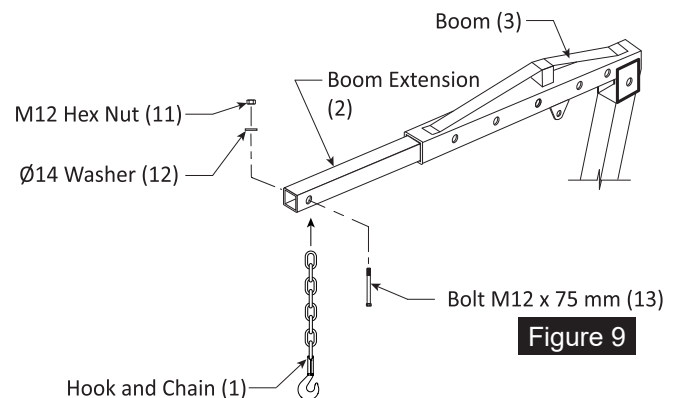


Figure 9

Insert the Chain and Hook (#1) to the Boom Extension (#2) and secure with the M12 x 75 mm Bolt (13), Ø14mm Washer (#12) and M12 Hex Nut (#11).

10. Systematically verify all bolted connections are tight.

**Technical support and service is available from your dealer, on the web at [bendPak.com/support](http://bendPak.com/support), by email at [support@bendpak.com](mailto:support@bendpak.com), or by phone at (888)253-2363 select option 4, then 7.**

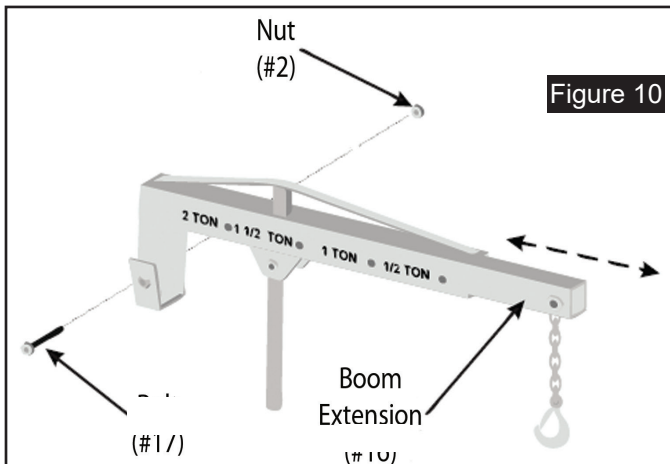
## OPERATION / MAINTENANCE

### WARNING

- Before using this Crane to Lift objects, always ensure that the Lifting Chain is correctly attached with undamaged fasteners that cannot slip free.
- Always evaluate what you are lifting for weight and balance. Do not overload or overbalance the Crane. Severe injury may occur.
- Always use correctly rated slings, webbing or other lifting equipment.

1. To raise the Boom, close the Release Valve on the Hydraulic Jack. Pump the Handle until the Boom reaches the desired height.

2. To extend the length of the Boom, remove the bolt and nut. Pull out the Boom Extension until you have reached the desired extension. Then, re-insert the bolt through the holes in the Boom and Boom Extension, and lock the bolt in place with the nut (see Fig. 10).



### WARNING

NEVER PLACE ANY PART OF YOUR BODY UNDER AN OBJECT BEING LIFTED BY THE CRANE. IT IS POSSIBLE FOR THE LOAD TO SLIP OFF THE HOOK, CAUSING AN OBJECT TO FALL, POSSIBLY RESULTING IN SERIOUS INJURY AND/OR PROPERTY DAMAGE. ALWAYS MONITOR THE LOAD BEING LIFTED AND DO NOT ALLOW THE LOAD TO ROCK BACK AND FORTH.

Do **not** exceed the maximum lifting capacities of this Shop Crane. Exceeding the maximum lifting capacities could cause personal injury and/or property damage. The longer the Boom is extended the **lower the lifting capacity** of the Hydraulic Shop Crane.

4. Position the Crane so that the Hook is directly above the object you wish to lift.

5. To lower the Crane, **SLOWLY** turn the Jack's release valve counterclockwise (left). Attach the Hook to the object you are lifting then verify the Safety Latch on the Hook is fully closed.
6. Close the Release Valve, and pump the Handle to raise the object. Carefully move the Shop Crane to the location where you wish to lower the object. Then carefully lower the object by opening the Release Valve slightly. **Never rapidly open the release valve.** Always lower loads in a slow controlled manner.
7. Once the object is fully lowered, disconnect the Hook from the object.
8. Store the Shop Crane in a clean, dry, safe location out of reach of children and other unauthorized personnel.

## FOLDING THE FRAME

1. Slowly turn the Jack's release valve counterclockwise to until the Crane Boom reaches its lowest position.
2. Remove Cotter Pins from the front Ring Pins. Remove the front Ring Pins. Leave rear Ring Pins in place.
3. Raise the Legs.
4. Insert a front Ring Pin into the middle hole of the Base Assembly.

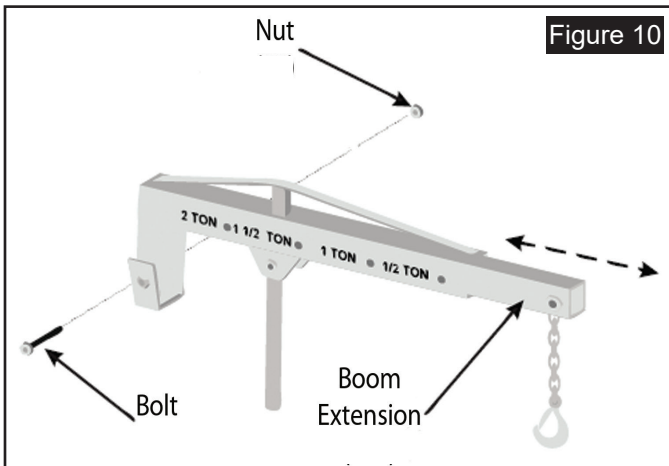
**NOTE:** Be certain that, when unfolding, both Ring Pins are returned to their proper positions. Find videos of this product on the BendPak Ranger YouTube Channel <https://www.youtube.com/@BendPak>





## MAINTENANCE

1. Check all of the mounting hardware before each use and make sure it is secure before using the Shop Crane.
2. Make sure the Hook & Chain are clean of dirt, grease or debris.
3. If the Jack is not performing to satisfaction, there may be air in the hydraulic system. To purge the system of air, follow these instructions:
  - Make sure the Ram is completely lowered.
  - Remove the Oil Fill Plug and top off with Hydraulic Fluid.
  - Raise the Ram to maximum height.
  - Loosen the Release Valve and push the Ram all the way down.
  - Top off with Hydraulic Fluid and replace the plug.Repeat if necessary.

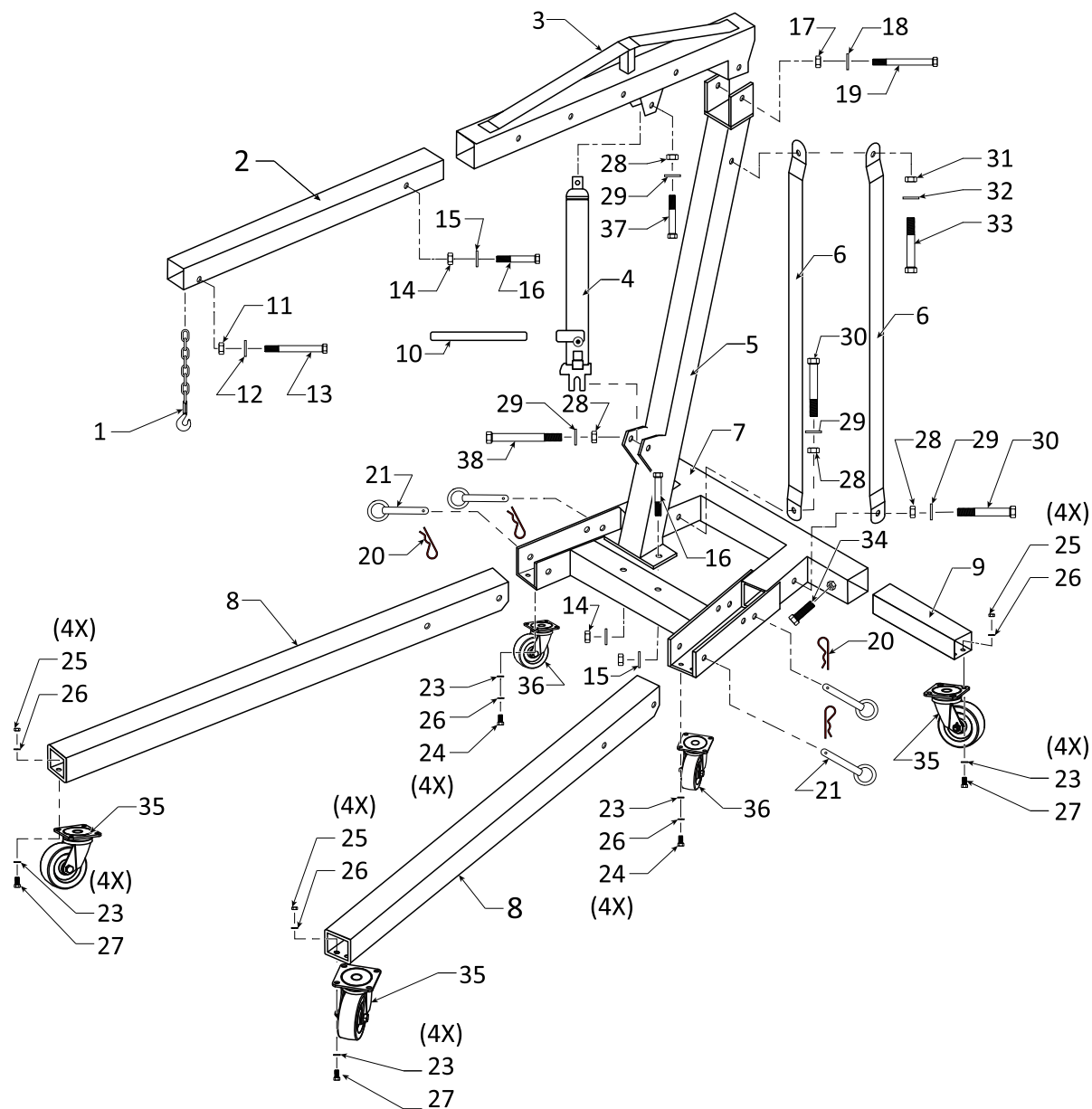


4. To clean, use a damp cloth and a mild detergent. Do not use solvents or other flammable agents.
5. If lifting performance of the Shop Crane begins to diminish, check the hydraulic oil level in the Oil Tank. If necessary, top off the Oil Tank with hydraulic oil.

## RSC-2TF SPECIFICATIONS & PARTS BREAKDOWN

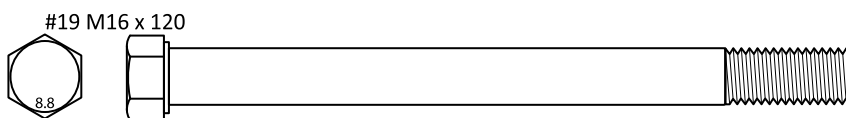
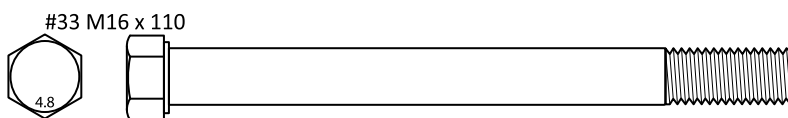
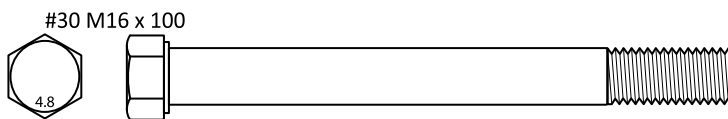
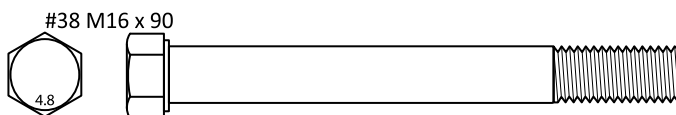
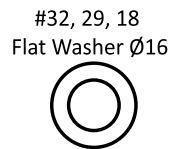
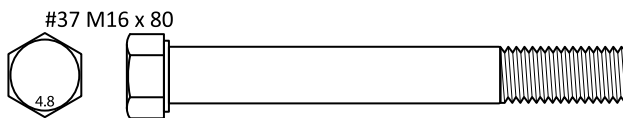
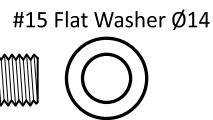
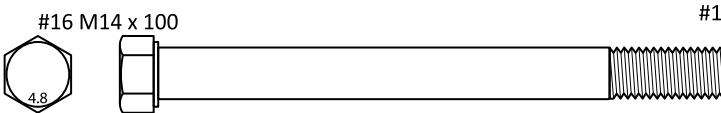
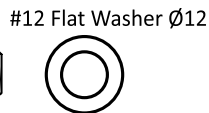
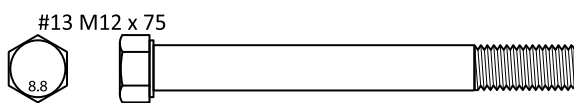
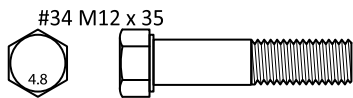
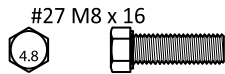
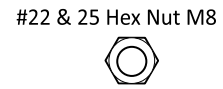
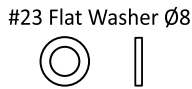
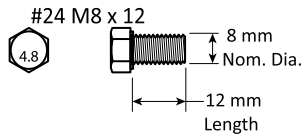


<b>BOOM LENGTH</b>	40" - 61" / 1,016mm - 1,549 mm.
<b>BASE LENGTH</b>	69" / 1,753 mm.
<b>BOOM CAPACITIES</b>	4,400 lbs. / 1,996 kg. 3,300 lbs. / 1,497 kg. 2,200 lbs. / 998 kg. 1,100 lbs / 499 kg.
<b>MAXIMUM BOOM HEIGHT</b>	80" / 2,032 mm. 84" / 2,134 mm. 89" / 2,261 mm. 93" / 2,362 mm.
<b>SPECIFICATIONS</b>	
	Full length: 69-1/4" / 1759 mm. Top to bottom: 57" / 1448 mm. Fully extended: 61" / 1549 mm.
<b>SHIPPING WEIGHT</b>	220 lbs. / 100 kg.
<b>SHIPPING DIMENSIONS</b>	23" x 61" x 16" / 584 mm x 1549 mm x 406 mm



<u>Item</u>	<u>Description</u>	<u>Qty.</u>	<u>Item</u>	<u>Description</u>	<u>Qty.</u>	<u>Item</u>	<u>Description</u>	<u>Qty.</u>
1	Hook and Chain	1	14	Hex Nut M14	3	27	Bolt M8x16 gr.4.8	16
2	Boom Extension	1	15	Flat Washer Ø14	3	28	Hex Nut M16	4
3	Boom	1	16	Bolt M14x100mm gr4.8	3	29	Flat Washer Ø16	4
4	Long Ram Jack	1	17	Hex Nut M16	1	30	Bolt M16x100 gr4.8	2
5	Post	1	18	Washer Ø16	1	31	Hex Nut M16	1
6	Brace	2	19	Bolt M16x120 gr.8.8	1	32	Flat Washer Ø16	1
7	Base	1	20	Cotter Pin	4	33	Bolt M16x110 gr.4.8	1
8	Leg	2	21	Ring Pin	4	34	Bolt M12x25 gr.4.8	2
9	Base Extension	2	22	Hex Nut M8	8	35	Caster Ø90mm	4
10	Handle	1	23	Flat Washer Ø8	24	36	Caster Ø75mm	2
11	Nut M12	1	24	Bolt M8x12	8	37	Bolt M16x80 gr.4.8	1
12	Flat Washer Ø12	1	25	Hex Nut M8	16	38	Bolt M16x90 gr.4.8	1
13	Bolt M12x75mm gr8.8	1	26	Spring Lock Washer Ø8	24			

# FASTENERS IDENTIFICATION



## MAINTENANCE RECORDS

[illegible]

## MAINTENANCE RECORDS

[illegible]



## NOTES

[illegible]

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***Ranger***<sup>®</sup>

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