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Ranger Floor Jack

Installation and Operation Manual

Manual Revision B — July 2017 — Manual P/N 5900393

Model:

- RFJ-3TQP



 **DANGER**

Read the entire contents of this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep this manual near the product for future reference. By proceeding with operation, you agree that you fully understand the contents of this manual.

Manual. Ranger Floor Jack, *Installation and Operation Manual*, Manual P/N 5900393, Manual Revision B, Released July 2017.

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Limitations. Every effort has been made to ensure complete and accurate instructions are included in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak Ranger reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak Ranger is not responsible for typographical errors in this manual.

Warranty. The BendPak Ranger warranty is more than a commitment to you: it is also a commitment to the value of your new product. For full warranty details and to register your new BendPak Ranger product, contact your nearest BendPak Ranger dealer or visit www.bendpak.com/support/warranty.

Safety. Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on the unit.

Owner Responsibility. In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner to read and follow these instructions:

- Follow all setup, operation, and maintenance instructions.
- Make sure product setup conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain that all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep the manual with the product and make sure all labels are clean and visible.

Unit Information. Enter the Model Number, Serial Number, and the Date of Manufacture from the label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Date of Manufacture: _____

		Santa Paula, CA USA www.rangerproducts.com	
MODEL NUMBER			
SERIAL NUMBER			
VOLTAGE			
DESCRIPTION			
DATE OF MFG.			
		DANGER! Disconnect Power Before Servicing	
			
WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905279			

Table of Contents

Introduction	3	Setup	6
Shipping Information	3	Operation	7
Safety Considerations	4	Maintenance	7
Specifications	5	Troubleshooting	8
Components	5	Parts Breakdown	8

Introduction

This manual describes the RFJ-3TQP Ranger Floor Jack, which quickly and easily raises vehicles. More information about the full line of Ranger Products is available at rangerproducts.com.

This manual is mandatory reading for all users of the RFJ-3TQP, including anyone who sets up, operates, maintains, or repairs it.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

Technical support and service for your Jack is available directly from your distributor or by calling **Ranger Products at 1 (805) 933-9970**. You may also call for consultation on parts replacement (please have the serial number and model number of your unit available).

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. ***Do not sign the bill of lading until after you have inspected the shipment.*** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

Safety Considerations

Read this manual carefully before using your new product. Do not set up or operate the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to operate the product until they are also familiar with all operating instructions and warnings.

Safety Information

Please note the following:

- The product is a floor jack. **Use it only for its intended purpose.**
- The product should only be operated by authorized personnel.
- When the product is in use, keep all body parts away from it.
- Do not use the product while tired or under the influence of drugs, alcohol, or medication.
- Do not make any modifications to the product.
- Make sure all operators read and understand the *Installation and Operation Manual*. Keep the manual near the device at all times.
- Make a visual inspection of the product before using it. Do not use the product if you find any missing or damaged parts. Instead, contact an authorized repair facility, your distributor, or **Ranger Products at 1 (805) 933-9970**.

Symbols

Following are the symbols used in this manual:

-  **DANGER** Calls attention to a hazard that **will** result in death or injury.
-  **WARNING** Calls attention to a hazard or unsafe practice that **could** result in death or injury.
-  **CAUTION** Calls attention to a hazard or unsafe practice that could result in personal injury, product damage, or property damage.



Tip Calls attention to information that can help you use your unit better.

Liability Information

BendPak Ranger assumes **no** liability for damages resulting from:

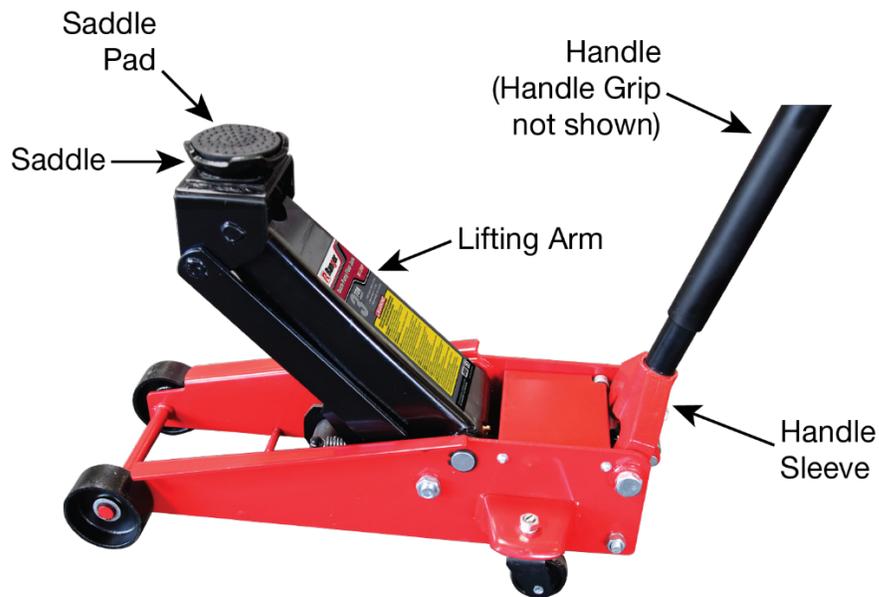
- Use of the product for purposes other than those described in this manual.
- Modifications to the product without prior, written permission from BendPak Ranger.
- Damage to the product from external influences.
- Incorrect operation of the product.

Specifications

Lifting Capacity	6,000 lbs / 2,722 kg
Lowered Pad Height	5" / 127 mm
Raised Pad Height	19.75" / 501.75 mm
Shipping Weight	82 lbs / 37 kg

Components

The following figure shows the major components of the Jack.



The major components of the Jack include:

- **Handle:** Lets you move the Jack around.
- **Handle Grip:** Turn the Handle Grip to control the raising and lowering of the Jack. Turn the Handle Grip clockwise to raise the Lifting Arm by pumping the Handle. Turn the Handle Grip counterclockwise to lower the Lifting Arm.

⚠ WARNING The further you turn the Handle Grip counterclockwise (to the left), the faster the Lifting Arm lowers. Be careful not to turn the Handle Grip counterclockwise too far, as the vehicle on the Jack could come down too fast, potentially damaging the vehicle or injuring persons nearby.

- **Saddle:** Holds the Saddle Pad.
- **Saddle Pad:** Contacts the lifting point of the vehicle you are raising.
- **Lifting Arm:** Moves the vehicle up and down.
- **Wheels and Casters:** Let you easily move the Jack.
- **Hydraulic System:** Provides power to the Jack; comes fully functional.

Setup

The Jack comes mostly assembled; all you need to do is to set up the Handle.

To set up your Jack:

1. Use the screw to connect the two halves of the Handle.
2. Insert the bottom of the Handle into the Handle Sleeve.
Make sure the bottom of the Handle goes all the way down into the Handle Sleeve. The bottom of the Handle needs to fit over the top of the release valve or the Jack will not work correctly.
3. Insert the screw into the Handle just above the Handle Sleeve and screw it in; this holds the Handle in place.
4. Turn the Handle Grip clockwise (to the right) until it stops.

You only need to use a moderate amount of force; do not twist it too hard.

5. Pump the Handle to make sure the Jack is working.

The Lifting Arm should go up. If not, purge air from the Hydraulic System.

If you continue to have problems, refer to [Troubleshooting](#) for assistance.

Operation

This section describes how to raise and lower a vehicle.

 **WARNING** Only use the Jack on a hard, flat, dry surface.

To raise a vehicle:

1. Move the vehicle to the desired location.
2. Put the vehicle into park and put on the parking brake.
If the vehicle is a manual transmission, put it in a gear, not in neutral. Chock the wheels if desired.
3. Position the Jack under the vehicle, with the Saddle Pad under a designated lifting point.
4. Turn the Handle Grip clockwise until it stops; do not overtighten.
5. Pump the Handle up and down. The longer the pump, the more the Lifting Arm goes up.
6. Stop pumping when the vehicle is at the desired height.

Go slightly higher than the height of the jack stands you plan to use to support the vehicle.

Refer to bendpak.com/shop-equipment/jack-stands/ for more information about jack stands that are available from BendPak Ranger.

7. Place the jack stands under the vehicle at locations recommended by the vehicle manufacturer.

 **WARNING** Do not get under the vehicle without it being supported by jack stands. **The Jack is not designed to maintain heavy loads for long periods of time.** Do not try to put jack stands under both ends of a vehicle at the same time.

8. Turn the Handle Grip counterclockwise to lower the Jack, lowering the vehicle onto the jack stand.
9. When the vehicle is on the jack stands, move the Jack out of the way.

To lower a vehicle:

1. Position the Jack under the vehicle, with the Saddle Pad under a designated lifting point.
2. Turn the Handle Grip clockwise, then pump the Handle to raise the jack.
3. Keep pumping until the vehicle is fully lifted off of the jack stands.
4. Remove the jack stands from under the vehicle.
Make sure there is nothing else under the vehicle. If there is, move it out of the way.
5. Slowly turn the Handle Grip counterclockwise to lower the Jack, which lowers the vehicle to the ground.

Maintenance

This section describes how to maintain your Jack.

To maintain your Jack:

- **Storing.** Store your Jack in the fully lowered position; this protects the Jack from corrosion.
- **Daily.** Keep the Jack clean. Dirt, rust, and so on can cause slow movement or rapid jerks, both of which damage internal components. Make sure all labels are in place and visible.
- **Weekly.** Inspect the Jack for cracked welds, hydraulic fluid leaks, missing or damaged parts.
- **Monthly.** Lubricate the Jack with light oil.
- **Monthly.** Check the hydraulic fluid level. Fill as necessary.
- **Every three months.** Fully clean and lubricate the Jack.

To purge air from the hydraulic system:

1. Turn the Handle Grip counterclockwise; lower the Lifting Arm to the ground.
2. Pump the Handle eight full strokes.
3. Turn the Handle Grip clockwise.
4. Pump the Handle until the Lifting Arm reaches maximum height; pump several times more to remove any trapped air.
5. Carefully pinch the fluid fill plug to release trapped air.
6. Turn the Handle Grip counterclockwise; lower the Lifting Arm to the ground. Use force if needed.
7. Turn the Handle Grip clockwise; check for proper pump action.

It may be necessary to perform this procedure more than once to purge all of the air.

To check hydraulic fluid levels:

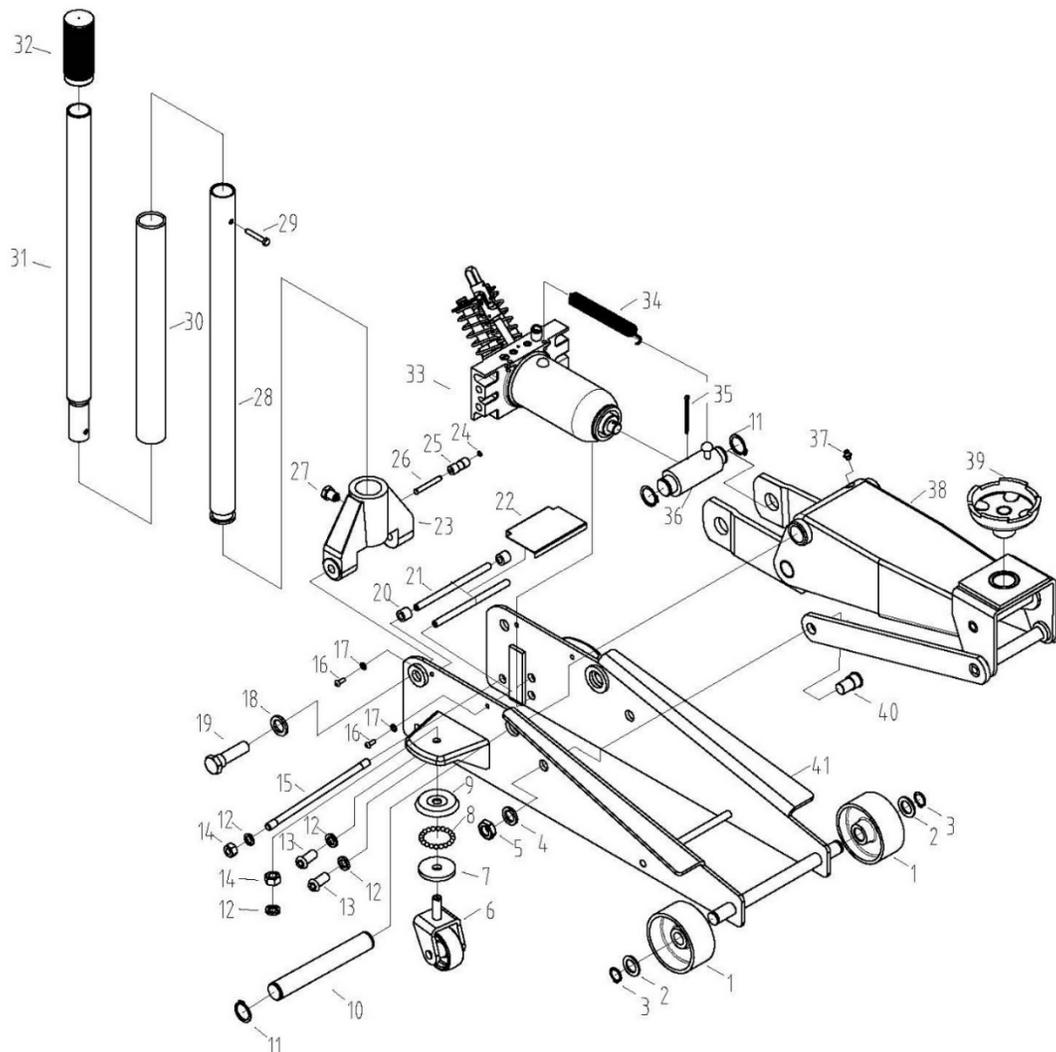
1. Turn the Handle Grip counterclockwise to fully lower the Jack. You may need to push it down.
2. Remove the fluid fill plug.
3. Stand Jack in vertical position with Handle down.
The hydraulic fluid should be level with the bottom of fill hole. If not, top it off . Do not overfill. Only add new, clean hydraulic fluid.
4. Replace the fluid fill plug.

Troubleshooting

Issue	Action to Take
Jack does not lift to full height.	Check hydraulic fluid level; top off if low.
Jack does not hold load.	Check for leaks in the Hydraulic System; fix them if found. Add additional hydraulic fluid if necessary.
Jack does not lower.	Purge air from the Hydraulic System. Check hydraulic fluid level; top off if low.
Jack feels “spongy” when lifting.	Purge air from the Hydraulic System.

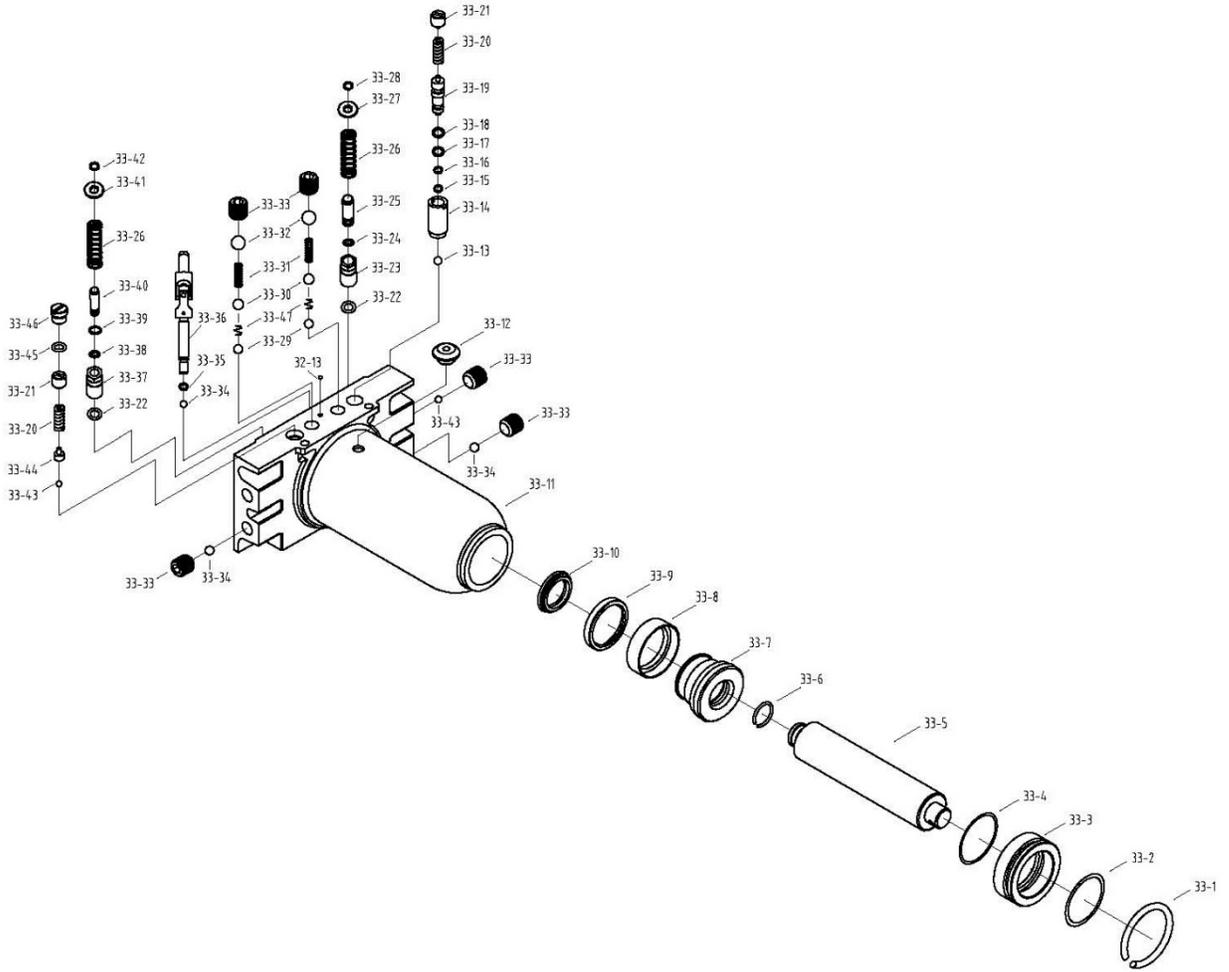
If you continue to have problems with your Jack, call **Ranger Products at (805) 933-9970** or visit www.bendpak.com/support/.

Parts Breakdown



Num	Description	Qty
1	Front Wheel	2
2	Washer, Front Wheel	2
3	Retain Ring 18	2
4	Spring Washer 16	2
5	Nut M16	2
6	Rear Wheel Set	2
7	Lower Steel Ball Seat	2
8	Steel Ball 6.3500 G200	38
9	Lower Steel Ball Seat	2
10	Arm Axle	1
11	Retainer Ring 25	4
12	Spring Washer 12	8
13	Hexagon Screw Nut M12*25	4
14	Nut M12	4
15	Back Tensioning rod	1
16	Hexagon Screw Nut M6*16	4
17	Flat Washer 6	4
18	Spring Washer 18	2
19	Linking Bolt, Handle Socket	2
20	Spacing Collar, Handle Socket	2

Num	Description	Qty
21	Gag Lever Rod	2
22	Cover Plate	1
23	Handle Socket	1
24	Retain Spring 12	1
25	Handle Socket Roller	1
26	Roller Axle	1
27	Locating Screw	1
28	Lower Handle Part	1
29	Bolt M6*35	1
30	Handle Foam	1
31	Upper Handle Part	1
32	Handle Grip	1
33	Hydraulic Power Unit	1
34	Return Spring	1
35	Cotter Pin 4*50	1
36	Connecting Rod, Pump Unit	1
37	Oil plug M6	1
38	Lifting Arm	1
39	Saddle	1
40	Bolt, Connecting Rod	2
41	Side Plate	1



Num	Description	Qty
33-1	Steel Ring	1
33-2	O-Ring	1
33-3	Grip ring	1
33-4	O-Ring	1
33-5	Piston Rod	1
33-6	Retaining Rod	1
33-7	Piston Plunger	1
33-8	Retain Ring, Piston Plunger	1
33-9	Nylon washer	1
33-10	Y Type Washer, Piston Plunger	1
33-11	Reservoir Unit	1
33-12	Oil Plug	1
33-13	Steel Ball 5.000 G16	1
33-14	Valve Cover	2
33-15	Lower Retainer Ring	6
33-16	O-Ring 5x18	1
33-17	O-Ring 6x2	1
33-18	Upper Retainer Ring	1
33-19	Valve Core	1
33-20	Safety Valve Spring	1
33-21	Adjusting Pressure Screw	1
33-22	Copper Washer	1
33-23	Pump Body	1
33-24	Y Type Washer, Piston Plunger	2

Num	Description	Qty
33-25	Piston Plunger B	1
33-26	Pump Piston B	2
33-27	Spring Cover	1
33-28	Steel Ring	1
33-29	Steel 5.5000 G16	2
33-30	Steel 8.000 G16	2
33-31	High Pressure Spring	2
33-32	Steel 10.000 G16	2
33-33	Hexagonal Bolt M12*12x3	5
33-34	Steel Ball 6.0000 G16	3
33-35	O-Ring 8x1.8	1
33-36	Release Valve	1
33-37	Pump Casting	1
33-38	Y Type Washer A, Pump Piston	1
33-39	Retaining Ring, Piston Plunger	1
33-40	Piston Plunger A	1
33-41	Spring Cover	1
33-42	Steel Ring, Piston Plunger	1
33-43	Steel Ball 4.0000 G16	2
33-44	Steel Ball Valve Base	1
33-45	O-Ring, Safety Valve	1
33-46	Screw, Safety Valve	1
33-47	Lower Retainer Ring	2



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