

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 A 09-05-08

INSTALLATION AND OPERATION MANUAL

TRANSMISSION JACKS

MODELS: RTJ-1 RTJ-660 RTJ-1100 RTJ-3000





Keep this operation manual near the machine at all times. Make sure that <u>ALL USERS</u> 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

Ranger™ Transmission Jacks are designed and built with safety in mind. However, proper training and thoughtful operation on the part of the operator can increase your overall safety. DO NOT operate or repair this equipment without reading this manual and the important safety instructions shown inside.



1645 Lemonwood Dr. Santa Paula, CA. 93060, USA Tel: 1-805-933-9970

Toll Free: 1-800-253-2363 Fax: 1-805-933-9160 www.rangerproducts.com

WARRANTY POLICY

Ranger Products™ are backed by over 35 years of manufacturing experience. Every Transmission Jack bearing the Ranger™ name is sold with the following warranty.

- Each Ranger Product™ is warranted to be free from defects in workmanship and material for a period of one year from the date of shipment provided that a written claim for such defect is made within that time.
- ◆ This warranty does not cover damage or defects caused by carelessness of the operator, misuse, abuse or abnormal use which in any way impairs the proper functioning of the equipment or by the use or addition of parts not manufactured by Ranger Products™ or its suppliers.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

If your Ranger Products[™] machine is not functioning properly, call your Ranger Products[™] dealer immediately. On some occasions, an independent contractor may be hired to do the repairs. Within the warranty period, a customer should not hire his own contractor unless it is authorized in writing by Ranger Products[™].

If it is necessary to return equipment for repairs, your dealer will so advise you. When returning equipment for repairs, see that machines are properly crated and protected, and prepay transportation.

Defective parts replaced at no charge must be returned to your dealer or Ranger Products™ within 60 days of the date that the replacement parts are shipped; otherwise, you must pay for the replacement parts at the current selling price.

SHIPPING DAMAGE

If any damage is found, notify your carrier immediately and save all crating materials for the carrier's inspector to examine. Failure to promptly report damage could result in denial of your claim.

A trucking company's procedure for handling damage is as follows:

- 1. Immediately send out an inspector. An inspection report is filled out on the spot, a copy of which is given to the customer.
- 2. The **customer** has to call the carrier to request a claim form.
- 3. The customer mails in the claim form.
- 4. The claim usually takes two (2) months to process.

If a unit is seriously damaged, your Ranger Products dealer may be able to intervene, requesting that the damaged unit be returned and a new unit delivered.



If no damage is found, remove the bolts or steel bands which fasten the machine to the skid. The machine may be fastened on two or all four corners. Remove the machine from the skid being careful not to damage the casters on the underside.

IMPORTANT SAFETY TIPS

- Transmission Jacks are for removing, transporting and installing transmissions or specified components only.
- ◆ DO NOT lift or support a vehicle with a transmission jack.
- Be sure to read all warning labels and the instructions manual prior to operation of this equipment.
- ♦ Keep hands and body clear of all pinch points.
- ♦ Use the Jack for loading under rated capacity only. **DO NOT OVERLOAD.**
- Ensure the Jack is set on a solid level surface that can sustain the load. Use on other that hard surfaces can result in instability and loss of the load.
- Be sure that the Jack is well supported before operation.
- Keep transmission low when rolling across the floor.
- Keeps chains secured until ready to remove transmission form jack. DO NOT tow loaded jack by hydraulic pump handle.
- ♦ Always maintain a clean work area. Keep visitors and especially children away from work area.
- ♦ This Transmission Jack is to be operated by professional personnel only. Operation by non-professional personnel may result in injury and /or property damage.

SPECIFICATIONS / FEATURES

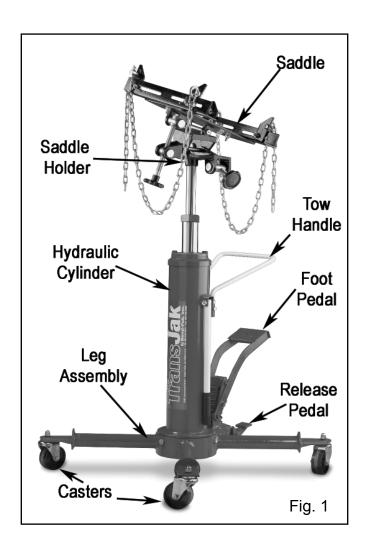
Model	Сар	acity	Lowered Height	Raised Height		Shipping Weight
	1st Stage	2nd Stage	5	, in	Billionolono	IIVigin
	2,000 lbs	1000 Lbs	37"	79.5"	39" x 39"	214 Lbs
RTJ-1	907 Kg	454 g	940mm	2019mm	991mm x 991mm	97 Kgs
	660	Lbs	51"	73"	30' x 30"	92 Lbs
RTJ-660	229	9 Kg	1295 Kg	1864mm	762mm x 762mm	42 Kg
	1,10	O Lbs	45"	72"	24" x 24"	115 Lbs
RTJ-1100	499	9 Kg	1143mm	1829	610mm x 610mm	52 Kg
	3,000 lbs	2,000 Lbs	37"	79.5"	45" x 45"	232 Lbs
RTJ-3000	660 Lbs 229 Kg 1,100 Lbs 499 Kg 3,000 lbs 2,000 Lbs		940mm	2019mm	1,143mm x 1,143mm	105 Kg

ASSEMBLY INSTRUCTIONS

Refer to the section for your specific model's instructions.

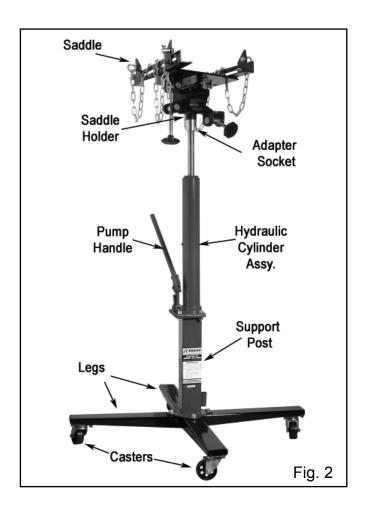
RTJ-1

- 1. Locate the two, "leg assemblies", and attach each assembly to the bottom of the Hydraulic Cylinder using the three bolts and washers.
- 2. Attach the Casters to the ends of each leg, one at a time. Finger tighten the Casters until all four are attached. Then properly tighten using a wrench.
- 3. Screw the Saddle Holder onto the shaft of the Hydraulic Cylinder and tighten the "set screw" located on the Saddle Holder.
- 4. Attach the Tow Handle and the Steering Handle.
- 5. Attach the Pins and chains to the Saddle.



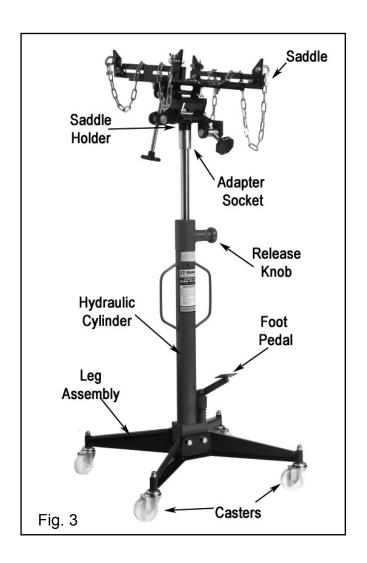
RTJ-660

- 1. Locate the four Casters and attach them to the bottom of the ends of the four Legs. Use the four nuts and bolts with the washers for each leg, ensure they are well tightened.
- 2. Attach each Leg to the bottom Support post using the hex head bolts.
- 3. Set the Hydraulic Cylinder Assembly on the top plate of the Support Post and fasten the four bolts with the washers and nuts.
- 4. Slide the adapter socket (on saddle neck) onto the shaft of the cylinder and fasten the "set screw" on the adapter.
- 5. Simply insert the Pump Handle into the Pump Handle socket.
- 6. Attach the Pins and chains to the Saddle.



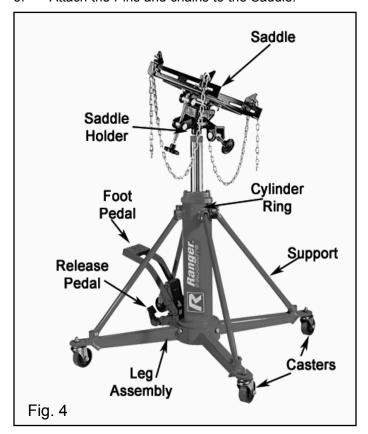
RTJ-1100

- 1. Attach the two, Leg Assemblies to the block on Hydraulic Cylinder Assembly, using the hex head bolts and washers.
- 2. Locate the four Casters and attach them to under carriage through the holes provided. Finger tighten the nuts and once all the Casters are attached, properly tighten all nuts.
- 3. Simply slide the Adapter Socket (on Saddle Neck) onto shaft of the hydraulic ram and tighten the "set screw" holding the saddle in place.
- 4. Attach the Pins and chains to the Saddle.



RTJ-3000

- 1. Locate the two, Leg Assemblies, and attach each assembly to the bottom of the Hydraulic Cylinder using the three bolts and washers.
- 2. Attach the Casters to the ends of each leg, one at a time. Finger tighten the Casters until all four are attached. Then properly tighten using a wrench.
- 3. Screw the Saddle Holder onto the shaft of the Hydraulic Cylinder and tighten the set screw located on the holder.
- 4. Attach the two Cylinder Ring halves together and the attach the four Supports to the Collar and the Leg Assemblies.
- 5. Attach the Pins and chains to the Saddle.



OPERATING INSTRUCTIONS

1. With the vehicle elevated on lift, position jack beneath transmission, as nearly as possible to the transmission's center of weight or balance point.

Note: RTJ-660 ONLY, Ensure the hydraulic release valve is closed by turning it clockwise.



CAUTION! DO NOT EXCEED THE MAXIMUM CAPACITY OF YOUR PARTICULAR MODEL.

2. Pump the jack to raise the Saddle close to the transmission.

Note the following to raise your Jack. See figures 1-4.

RTJ-1	Foot Pedal
RTJ-660	Foot Pedal
RTJ-1100	Pump Handle
RTJ-3000	Foot Pedal

- 3. Roll the Saddle side to side and tilt forward and backward as needed to firmly contact the bottom of the transmission.
- 4. Secure the transmission to the jack using the heavy duty chain anchors.
- 5. Before unbolting the transmission from the engine, support the engine with a jack stand or other appropriate device.
- 6. When all the connections to the vehicle have been uncoupled and the transmission is free, lower the hydraulic stage/saddle slowly using the hydraulic release mechanism.

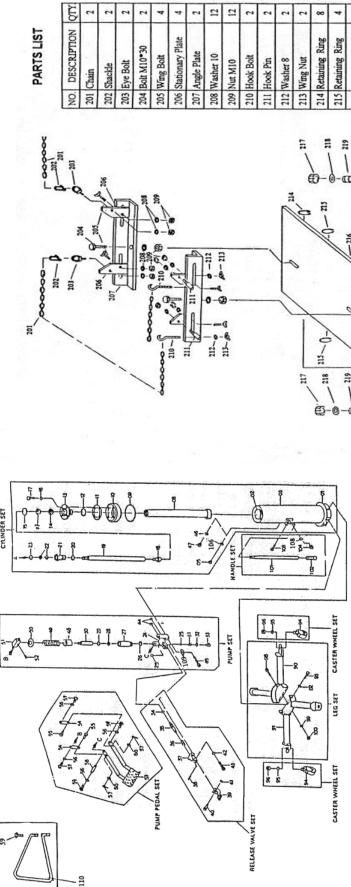
Note the following to lower your jack. See figures 1-4.

RTJ-1	Foot Pedal
RTJ-660	Release Valve (Cylinder Base)
RTJ-1100	Release Knob (Cylinder Top)
RTJ-3000	Foot Pedal

Note: RTJ-660 Turn the release valve counter clockwise. RTJ-1100 Turn knob clockwise.

For additional copies or further information, contact: BendPak, Inc. / Ranger Products 1645 Lemonwood Dr., Santa Paula, CA. 93060 1-805-933-9970 www.bendpak.com rangerproducts.com

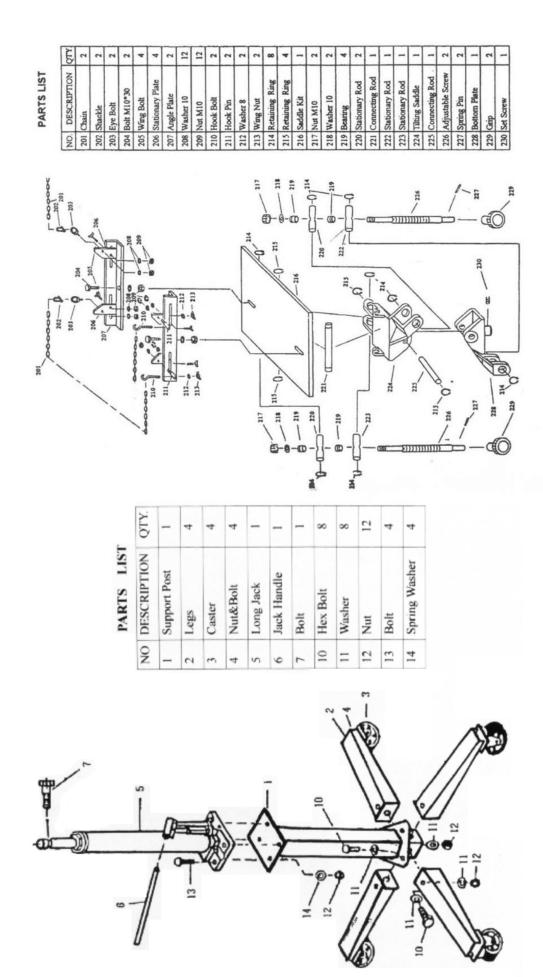




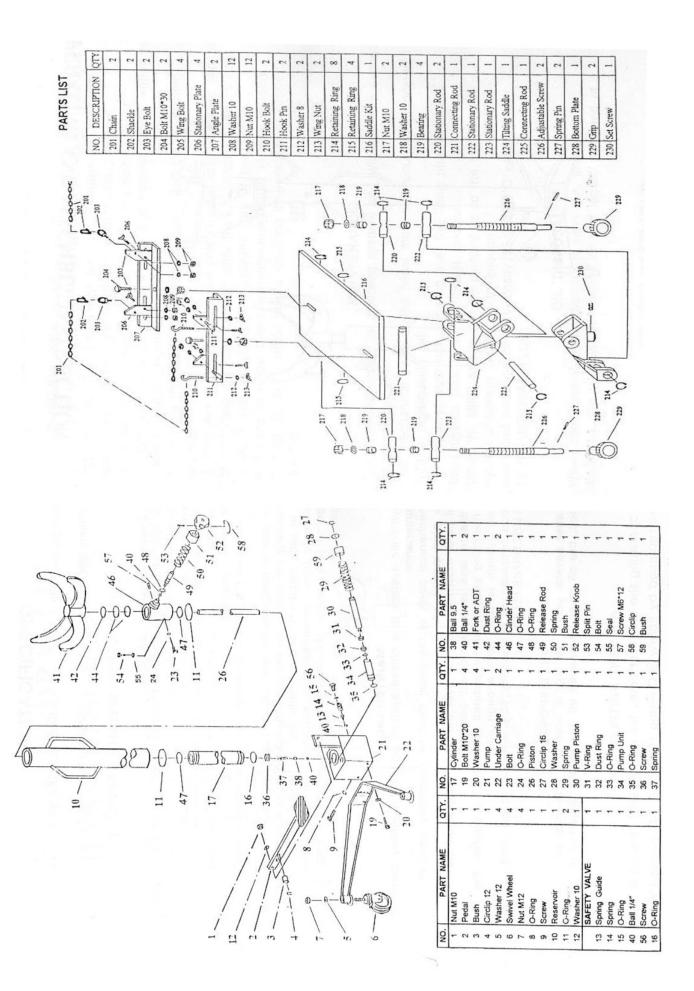
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RTJ - 660 Exploded View

EXPLODED DRAWING OF SADDLE



RTJ-1100 Exploded View



RTJ - 3000 Exploded View

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SADDLE SET

PUMP PEDAL SET

22222



For Parts Or Service Contact:

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