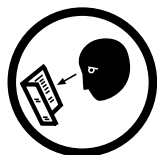


- *Operating Manual*
- *Warning Information*
- *Parts List*

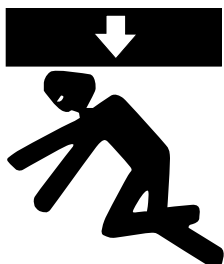


**THIS OPERATING MANUAL CONTAINS  
IMPORTANT SAFETY INFORMATION.**

**READ CAREFULLY AND UNDERSTAND ALL  
INFORMATION BEFORE OPERATING THIS TOOL.**

**SAVE THIS MANUAL FOR FUTURE USE.**

## **!WARNING**



• **READ, STUDY, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS BEFORE OPERATING THIS DEVICE.** • **INSPECT THE JACK BEFORE EACH USE. DO NOT USE JACK IF DAMAGED, ALTERED, MODIFIED, IN POOR CONDITION, LEAKING HYDRAULIC FLUID, OR UNSTABLE DUE TO LOOSE OR MISSING HARDWARE OR PARTS. MAKE CORRECTIONS BEFORE USING.** • **CONSULT THE VEHICLE MANUFACTURER FOR THE TRANSMISSION'S CENTER OF BALANCE.** • **SECURE THE TRANSMISSION TO THE JACK'S SADDLE WITH THE ANCHORAGE RESTRAINT SYSTEM PROVIDED BEFORE RAISING OR LOWERING THE TRANSMISSION.** • **CENTER LOAD ON SADDLE. BE SURE SETUP IS STABLE BEFORE WORKING ON VEHICLE.** • **SUPPORT THE ENGINE WITH A STAND BEFORE UNBOLTING THE TRANSMISSION FROM THE ENGINE.** • **WEAR EYE PROTECTION THAT MEETS ANSI Z87.1 AND OSHA STANDARDS.** • **DO NOT USE JACK BEYOND ITS RATED CAPACITY.** • **USE ONLY ON A HARD LEVEL SURFACE.** • **ADEQUATELY SUPPORT THE VEHICLE BEFORE STARTING REPAIRS.** • **USE OF THIS PRODUCT IS LIMITED TO THE REMOVAL, INSTALLATION AND TRANSPORTATION IN THE LOWERED POSITION, OF TRANSMISSIONS, TRANSFER CASES AND TRANSAXLES.** • **DO NOT USE ANY ADAPTERS UNLESS APPROVED OR SUPPLIED BY CORNWELL.** • **ALWAYS LOWER THE JACK SLOWLY AND CAREFULLY.** • **FAILURE TO HEED THESE MARKINGS MAY RESULT IN SERIOUS OR FATAL PERSONAL INJURY AND/OR PROPERTY DAMAGE.**



### **CTJ1000TTJB SPECIFICATIONS**

Capacity .....	1000 Lbs.
Low Height .....	35.5"
Raised Height .....	74"
Saddle Tilt Forward.....	37°
Saddle Tilt Backward .....	26°
Saddle Tilt Side to Side.....	12°
Base .....	30.25" x 30.25"
Shipping Weight.....	143.3 Lbs (65 Kgs.)

*Meets or exceeds ASME PALD-2005  
standards for performance & safety.*

## **CTJ1000TTJB**

### **1000 Lb. Telescopic Transmission Jack**

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## OWNER/USER RESPONSIBILITY

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using the transmission jack. Personnel involved in the use and operation of equipment shall be careful, competent, trained, and qualified in the safe operation of the equipment and its proper use when servicing motor vehicles and their components. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturer's instructions and pertinent warning information. Owner and/or user is responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturer.

## INSPECTION

Visual inspection should be made before each use of the transmission jack. Any jack which appears to be damaged in any way, is found to be badly worn, or operates abnormally must be removed from service. If the jack is accidentally subjected to an abnormal load or shock, it must be inspected by a manufacturer's authorized repair facility immediately. It is recommended that an annual inspection of the jack be made by a manufacturer's authorized repair facility and that any defective parts, decals, or warning labels be replaced with manufacturer's specified parts. All repairs must be made by a factory authorized service center. A list of authorized repair facilities is available from the manufacturer.

## SETUP

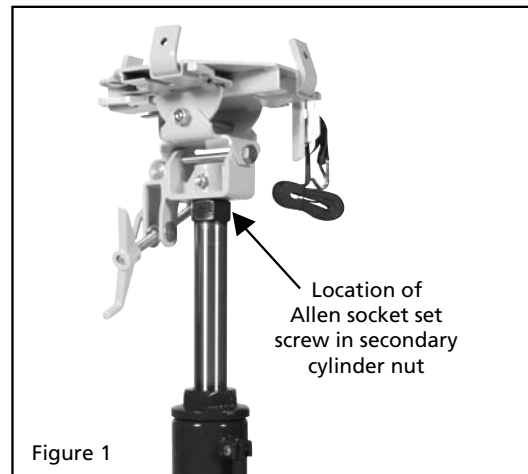
PLEASE REFER TO THE EXPLODED VIEW DRAWING IN THIS MANUAL IN ORDER TO IDENTIFY PARTS.

1. Place the hydraulic power unit in an upright position. Secure the legs (index # 2-5) to the power unit with the (index #2-3) bolts and (index # 2-4) washers. Do not tighten bolts yet.
2. Secure swivel casters (index # 2-1 and #2-2) to leg caster brackets using washers, nuts (index # 2-6) and then tighten.
3. Tighten the eight (8) bolts that secure the legs to the power unit.
4. Place the saddle assembly (index # 3-32) on the jack's ram. Align the hole in the saddle with the hole in the ram and secure with the (index # 3-26) bolt and (index # 3-27) nut.
5. The hydraulic power unit is equipped with two reservoir fill screws (index # 1-37 and 1-38). The closed filler screw is installed in the reservoir at the factory so the jack will not leak during shipment. **IMPORTANT: REPLACE THE RESERVOIR FILLER SCREW WITH THE VENTED RESERVOIR SCREW BEFORE USING THE JACK.**

6. Sometimes air gets trapped in the hydraulic system during shipping and/or handling. Evidence of an air bound system is when pumping the foot pedal feels spongy and/or the jack will not pump full incremental strokes.

## PURGING AIR FROM THE HYDRAULIC SYSTEM:

- a. Depress the release foot pedal while simultaneously pumping the jack about 15 incremental pump strokes.
- b. Remove your foot from the release pedal and pump the jack to maximum extension.
- c. If the secondary ram seems to be spongy or does not pump up normally, insert an Allen wrench in the small Allen socket set screw in the side of the secondary cylinder nut. (See Figure 1) Slightly turn the set screw in a counterclockwise direction while lightly depressing the pump pedal. This procedure is similar to bleeding air out of an automotive brake line. Repeat the procedure until there are no bubbles in the oil that escapes from behind the Allen socket set screw.
- d. Close the Allen socket set screw by turning it in a clockwise direction until tight. Repeat steps "a" and "b".
- e. If the condition seems better, repeat steps "a" through "d" until air is purged from the system.



## OPERATING INSTRUCTIONS



This is the safety alert symbol used for the OPERATING INSTRUCTIONS section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death.

1. Lift the vehicle to the desired work height and support the vehicle in accordance with the lift manufacturer's recommended support procedure and all the instructions and warnings in this manual.
2. Use an under hoist stand rated greater than the weight of the engine to support the engine before unbolting the transmission from the engine or bolting the transmission to the engine.

OPERATING INSTRUCTIONS (CONT.)

- 3. Position the transmission jack directly under the transmission. Depress the large foot pedal up and down in order to raise the saddle to a height very close to the center of balance point of the transmission oil pan but do not touch the transmission.
- 4. Adjust the ratchet arms on the saddle so that the bent up section of the arms will fit in the mounting flange around the perimeter of the transmission oil pan. Slowly and gently pump the jack until the connection is made and then secure the transmission to the jack's saddle with the tie down strap provided. Sometimes it is necessary to turn the fore and aft and side to side tilt knobs so the saddle is in the proper alignment with the transmission pan before securing the load to the saddle.
- 5. Make sure the tie down strap is very tight when securing the transmission to the saddle and before raising or lowering the transmission.
- 6. Remove the transmission from the engine according to instructions in the vehicle service manual.
- 7. Once the transmission has been disconnected from the engine, very slowly depress the release pedal to make sure the jack's saddle and transmission do not hang up on any undercar components, wiring, fuel lines, etc. Continue to lower the jack all the way down.
- 8. When installing a transmission, follow the above instructions but in the applicable order and according to the vehicle manufacturer's installation procedure.

PREVENTATIVE MAINTENANCE



This is the safety alert symbol used for the PREVENTATIVE MAINTENANCE section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death.

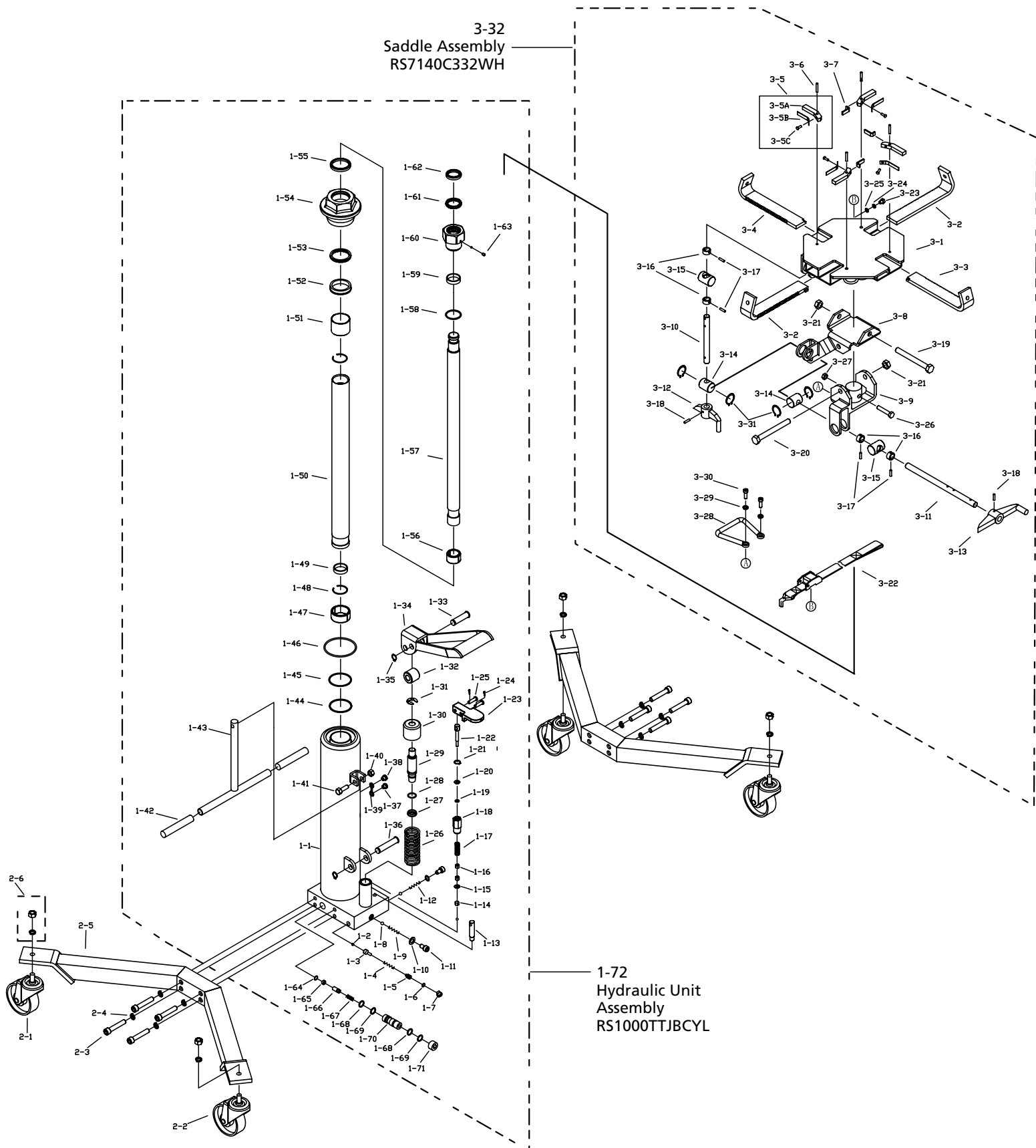
- 1. Always store the jack in a well protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. The jack must be cleaned of water, snow, sand or grit before using.
  - 2. Lubricate moving parts, excluding the telescopic rams, monthly with a general purpose grease.
  - 3. It should not be necessary to refill or top off the reservoir with hydraulic fluid unless there is an external leak. An external leak requires immediate repair which must be performed in a dirt-free environment by qualified hydraulic repair personnel who are familiar with this equipment.
- IMPORTANT: In order to prevent seal damage and jack failure, never use alcohol, hydraulic brake fluid or transmission oil in the jack.
- 4. Every jack owner is responsible for keeping the jack labels clean and readable. Use a mild soap solution to wash external surface of the jack but not any moving hydraulic components.
  - 5. Do not attempt to make any hydraulic repairs unless you are a qualified hydraulic repair person that is familiar with this equipment. Repairs must be performed by an authorized service center.

TROUBLESHOOTING

PROBLEM	ACTION
1. Unit will not lift load.	Purge air from hydraulic system by following procedure under SETUP.
2. Unit will not sustain load or feels "spongy" under load.	Purge air from hydraulic system as above.
3. Unit will not lift to full height.	Purge air from hydraulic system as above.
4. Unit still does not operate.	Contact an authorized service center from enclosed list.

# PARTS BREAKDOWN

## CTJ1000TTJB



# CTJ1000TTJB PARTS LIST

## Hydraulic Assembly Unit

Index	Part No.	Description	Q'ty	Index	Part No.	Description	Q'ty
1-1		Oil Cylinder Assembly	1	1-58	*	O-ring	1
1-2	*	Steel Ball	2	1-59		Bushing	1
1-3		Ball Seat	1	1-60		Screw Cap	1
1-4		Spring	1	1-61	*	Dust Seal	1
1-5		Screw	1	1-62	*	Dust Seal	1
1-6	*	Washer	1	1-63		Air Bleed Screw	1
1-7		Bolt	1	1-64		Snap Ring	1
1-8	*	Steel Ball	3	1-65		Washer	1
1-9		Spring	1	1-66		Valve Rod	1
1-10	*	Copper Washer	2	1-67		Spring	1
1-11		Bolt	2	1-68	*	O-ring	2
1-12		Spring	1	1-69	*	Nylon Gasket	2
1-13		Rod	1	1-70		Flow Valve	1
1-14		Ball Seat	1	1-71		Bolt	1
1-15	*	Copper Washer	1				
1-16		Nut	2	2-1	RS7140C21	Non-Locking Swivel Caster (Incl 2-1, 2-6)	2
1-17		Spring	1	2-2	RS7140C22	Locking Swivel Caster (Incl 2-2, 2-6)	2
1-18		Oil release Valve	1	2-3	**	Bolt	8
1-19	*	O-ring	1	2-4	**	Lock Washer	12
1-20	*	Washer	1	2-5		Leg	2
1-21		Snap Ring	1	2-6	**	Nut and Washer	4
1-22	RS7140C122	Release Valve Rod	1	<b>Saddle Assembly</b>			
1-23		Release Valve Pedal	1	3-1		Bracket	1
1-24		Pin	2	3-2	RS7140C32WH	Bracket C	2
1-25		Pin	2	3-3	RS7140C33WH	Bracket B	1
1-26		Spring	1	3-4	RS7140C34WH	Bracket A	1
1-27	*	Y-seal	1	3-5		Retainer Plate Assembly	4
1-28	*	O-ring	1	3-5A		Retainer Plate	4
1-29	RS7140C129	Pump Plunger (Incl. 1-29, 1-31)	1	3-5B	RS7140CSAWH	Spring Assembly (Incl: 3-5A, 3-5B, 3-5C, 3-6, 3-7)	4
1-30		Spring Cover	1	3-5C		Rivet	4
1-31		Snap Ring	1	3-6		Pin	4
1-32		Bushing	1	3-7		Retainer Plate A	3
1-33		Pin	1	3-8		Adjusting Bracket	1
1-34		Foot Pedal	1	3-9		Adjusting Bracket A	1
1-35		Snap Ring	2	3-10	RS7140C310AWH	Screw (Incl: 3-10, 3-12, 3-18)	1
1-36		Pin	1	3-11	RS7140C311AWH	Screw (Incl: 3-11, 3-13, 3-18)	1
1-37		Reservoir Fill Screw (for shipping only)	1	3-12		Handle B	1
1-38	RS7140C138	Vented Reservoir Screw (Incl. 1-38, 1-39)	1	3-13		Handle A	1
1-39		Sealing Gasket	1	3-14	***	Shaft	2
1-40		Nut	1	3-15	***	Shaft	2
1-41		Bolt	1	3-16	***	Bushing	4
1-42		Handle Sleeve	2	3-17	***	Pin	4
1-43		Draw Bar	1	3-18		Pin	2
1-44	*	Nylon Gasket	1	3-19		Bolt	1
1-45	*	O-ring	1	3-20		Bolt	1
1-46	*	O-ring	1	3-21		Lock Nut	2
1-47		Bushing	1	3-22	RS7140C322	Strap	1
1-48		Snap Ring	2	3-23		Bolt	1
1-49		Bushing	1	3-24		Lock Washer	1
1-50		Inner Cylinder	1	3-25		Washer	1
1-51		Bushing	1	3-26	**	Bolt	1
1-52		Bushing	1	3-27	**	Lock Nut	1
1-53	*	Dust Seal	1	3-28		Grip	1
1-54		Screw Cap	1	3-29		Washer	2
1-55	*	Dust Seal	1	3-30		Bolt	2
1-56		Bushing	1	3-31		Washer	4
1-57		Piston Rod	1	3-32	RS7140C332WH	Complete Saddle Assembly	1

Complete Replacement Hydraulic Unit Assembly

RS1000TTJBCYL

\* Only available in Seal Kit

RS7140CSK

\*\* Only available in Bolt Kit

RS7140CBK

\*\*\* Only available in Saddle Bearing Kit

RS7140SBK

## WARRANTY COVERAGE

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This warranty does not cover any damage to this product that results from accident, abuse, misuse, natural or personal disaster, or any unauthorized disassembly, repair, or modification. Repairs, disassembly and modification are only authorized to be made by Cornwell or a warranty service center approved by Cornwell.

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