



 **CENTRAL HYDRAULICS**®

800 LB. TRANSMISSION JACK

Model 03185

**ASSEMBLY and OPERATING
INSTRUCTIONS**



3491 Mission Oaks Blvd., Camarillo, CA 93011
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For technical questions and replacement parts, please call 1-800-444-3353



Specifications

Maximum Capacity	800 Lbs.
Minimum Height	8-1/2"
Maximum Height	24-1/2"
Saddle Plate Adjustment	55 Deg. Forward, 8 Deg. Back, 30 Deg. Side to Side
Base Dimensions	30" x 17"
Adjusting Swivel Arm Dimensions	6-1/8' L x 2" W x 3/16" Thick, with 3-3/4' L x 1/2" W Cutouts for bolt adjustments.
Safety Chain	48"

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines in damp or wet locations. Don't expose to rain. Keep work area well lighted.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle or play with the Transmission Jack.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye protection.** Always wear ANSI approved impact safety goggles.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.



9. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect the tool periodically, and if damaged, have it repaired by an authorized technician. The Jack handle must be kept clean, dry, and free from oil and grease at all times..
10. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
11. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.
12. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
13. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
14. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
15. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking, check to make sure the parts listed on pages 7 and 8 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.





Operation

Additional Transmission Jack Warnings

1. The use of this Jack is limited to the removal, installation, and transportation in the lowered position, of transmissions and differentials. No alteration to the Jack or adapters shall be made.
2. Be sure the vehicle is appropriately supported before starting repairs.
3. Do not overload. Overloading can cause damage to or failure of the Jack.
4. Only attachments and/or adapters supplied by the manufacturer shall be used.
5. This Jack is designed for use on hard, level concrete surfaces capable of sustaining the load. Use on other than hard, level surfaces can result in Jack instability and possible loss of load.

Warning!! Failure to heed these warnings may result in loss of load, damage to the Jack, and/or failure resulting in property damage, personal or fatal injury.

Do not ever exceed the 800 Lb. maximum weight capacity.

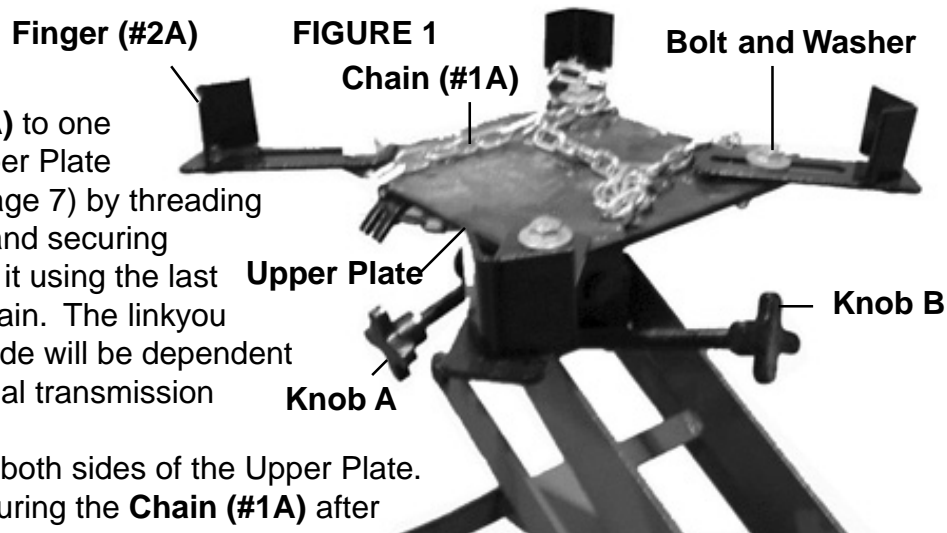
Assembly of the Fingers (#2A) and the Chain (#1A).

See **FIGURE 1** and the Assembly Drawing on page 7.

1. Set the hole on the **Finger (#2A)** over a corner hole on the Upper Plate (See **FIGURE 1**). Secure it by threading in a bolt and washer(4 Qty.) from the hardware bag. Repeat on the other three corners.

2. Attach the **Chain (#1A)** to one of the tabs under the Upper Plate (Assembly Drawing on page 7) by threading a bolt through both tabs and securing with a nut. **Note:** Secure it using the last link on one side of the chain. The link you use to secure the other side will be dependent on the size of the individual transmission you secure to the unit.

Note: There are tabs on both sides of the Upper Plate. The second set is for securing the **Chain (#1A)** after the transmission is in place.



Lowering a transmission onto the Transmission Jack.

Note: Every time you use the Transmission Jack, see that the unit is filled with hydraulic oil. See step 2 on page 6.

1. Once the vehicle is secured and raised on a hoist, clear the area underneath the vehicle of people and tools.
2. Wheel the Transmission Jack under the transmission.
3. Allow the **Chain (#1A)** to hang to the floor still attached to one end of the Upper Plate.
4. To raise the unit, close the **Release Valve (#29)** on the Power Unit (See Assembly Drawing on page 9). Pump the **Handle (#5A)** to raise the Transmission Jack. Stop just below the transmission and level the Upper Plate with the adjusting knobs (See **FIGURE 1**). Turning Knob A clockwise will tilt the Upper Plate up, raising the left side. Counterclockwise will bring it back to level. Turning Knob B clockwise will tilt the back of the Upper Plate up, and turning it counterclockwise will return it to a level position.





Operation (continued)

5. Continue raising the Upper Plate up to the transmission to determine where you will need to adjust the **Fingers (#2A)**. All four **Fingers (#2A)** need to grip and make contact with the transmission.

6. After determining where they need to be set, loosen the threaded bolts on each **Finger (#2A)**, and adjust it to the proper setting for the transmission. Tighten the bolts.

Note: If you need to lower the Transmission Jack to make adjustments, make sure nobody is close to the unit, and slowly turn and release the **Release Valve (#29)** until the Upper Plate is lowered to the desired height. Then, close the **Release Valve (#29)** to stop movement. Make your adjustments, tighten the **Release Valve (#29)** and raise the unit. See **FIGURE 2**.

7. Raise the unit again to make contact with the transmission, making sure all of the **Fingers (#2A)** are in firm contact.

8. Wrap the **Chain (#1)** securely around the transmission and bolt the **Chain (#1)** to the tab on the other side of the Upper Plate as described on page 4 (under Assembling Chain).

9. Once you are sure it is securely fastened, release the bolts holding the transmission in place.

10. Make sure the area is clear of people and tools, and verify that the transmission is securely held in place. Then, slowly turn and release the **Release Valve (#29)** to lower the Transmission Jack.

11. Wheel the Transmission Jack from under the vehicle and perform your desired maintenance.

Raising the Transmission Jack back into place.

1. Move the Transmission Jack so that the transmission is lined up properly with its connection points.

2. To raise the unit, close the **Release Valve (#29)** on the Power Unit (See Assembly Drawing on page 9). Pump the **Handle (#5A)** to raise the Transmission Jack. Guide it into place and replace the hardware, securing it to the chassis. Double check it is securely installed.

3. Take out the bolt to remove one side of the **Chain (#1)**. Move the chain out of the way making sure it will not be in the way of the Transmission Jack platform when it lowers.

4. Make sure nobody is close to the unit, and slowly turn and release the **Release Valve (#29)**. Wheel the Transmission Jack clear of the vehicle.

Maintenance

1. Make sure the Upper Plate, **Fingers (#2A)** and **Chain (#1A)** are clean and clear of dirt, debris, and grease.

2. Check all of the hardware periodically and tighten if necessary.

3. Periodically, lubricate the Zerk fitting on the main platform of the Transmission Jack. See the Assembly Drawing on page 7.

For adding oil and special hydraulic maintenance, see page 6.



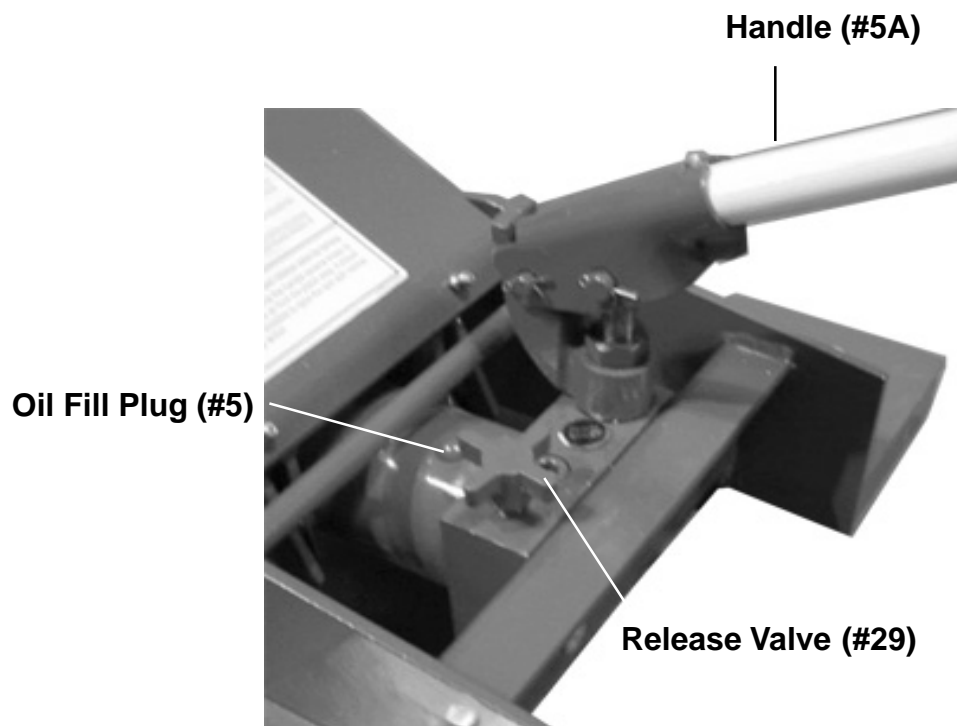
If the Transmission Jack is not performing properly, there may be excess air in the hydraulic system. The Jack may have to be bled to regain optimal performance

Bleeding and filling the Transmission Jack with hydraulic oil

See Assembly Drawing on page 9 and **FIGURE 2** below.

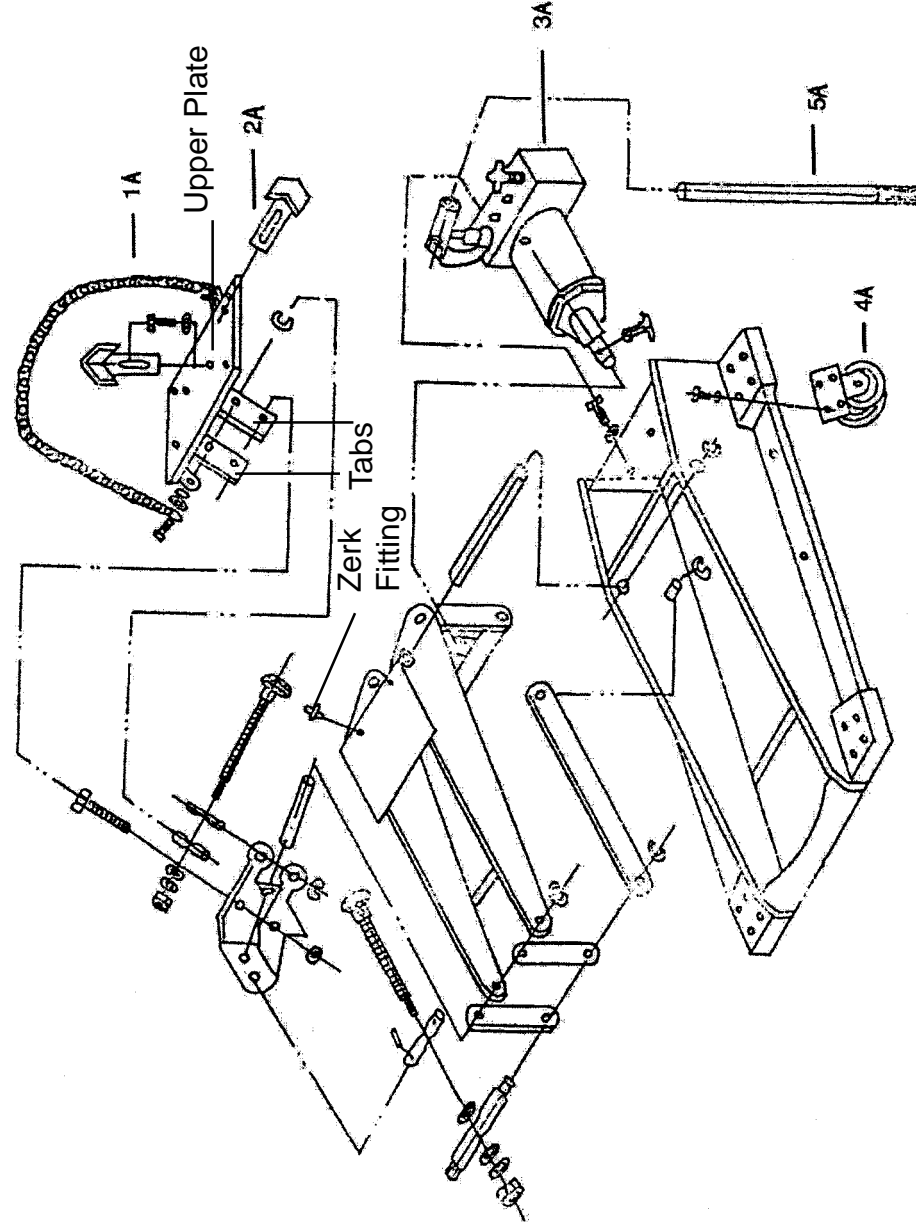
1. Place the Jack on a flat, level, solid surface.
2. If just filling the Jack, open the **Oil Fill Plug (#5)** with a standard slot screwdriver and check the oil. Fill to the top of each oil reservoir with a high quality hydraulic oil if necessary.
3. If bleeding, with the **Oil Fill Plug (#5)** removed, fully close the release valve by turning the **Release Valve (#29)** clockwise.
4. Have a co-worker apply pressure on the Upper Plate, holding it down. Quickly pump the **Handle (#5A)** ten times. This will bring all the air out of the system. Continue cranking until no more air bubbles appear from the Oil Reservoir. Fill to the top with a high quality hydraulic oil if necessary. Repeat if necessary.
5. Replace the **Oil Fill Plug (#5)**.
6. Test the Transmission Jack. Make sure it is functioning properly before attempting to lift another transmission. Crank the Upper Plate up and down several times to make sure it is working properly. If not, repeat the above process.

FIGURE 2





Assembly Drawing and Parts List for Main Unit



Note: See separate Power Unit parts list for individual replacement parts.

Note: Only the parts listed in the parts list below are available for replacement.

Part No.	Description	Qty.
1A	Chain Kit	1
2A	Finger	4
3A	Power Unit Assembly	1
4A	Caster Assembly	4
5A	Handle	1



Parts List for Power Unit

Part No.	Description	Part No.	Description
1	Tank Nut	20	Oil Seal
2	O-ring	21	Adjusting Screw
3	O-ring	22	Safety Valve Spring
4	Reservoir	23	Spring Guide
5	Oil Fill Plug	24	Washer
6	Sealing Gasket	25	Screw
7	Oil Seal	26	Steel Ball
8	Retaining Pin (2)	27	Steel Ball
9	Pin Rod	28	Steel Ball
10	Yoke	29	Release Valve
11	Pin Rod	30	Oil Seal
12	Piston Clamp	31	Valve Block
13	Plunger	32	Washer
14	O-ring	33	Cylinder
15	O-ring	34	Retaining Ring
16	Pump Body	35	O-ring
17	Rotating Link	36	Oil Seal
18	Screw	37	Piston Packing Retainer
19	Retaining Ring	38	Piston Rod

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



Assembly Drawing for Power Unit

