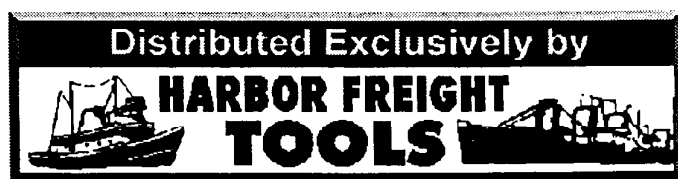




# Engine Transmission Hoist (500 Lb. Capacity)

**Model** 37791

## Assembly & 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.

THANK YOU for choosing a **HARBOR FREIGHT TOOLS** product. For future reference, please complete the owner's record below:

**Model** \_\_\_\_\_ **Serial No** \_\_\_\_\_ **Purchase Date** \_\_\_\_\_

SAVE THE RECEIPT, WARRANTY AND THESE INSTRUCTIONS. It is important that you read the entire manual to become familiar with the unit **BEFORE** you begin assembly.

#### **Technical Specifications**

<b>Tool Name:</b>	Engine Transmission Hoist (500 Lb. Capacity)
<b>SKU:</b>	37791
<b>Weight:</b>	42 Lbs.
<b>Dimensions:</b>	15" x 47" x 38"
<b>Maximum Lift Capacity:</b>	500 Lbs.

**Product Use:** This lightweight, portable unit features an adjustable bar that fits between fenders from 46" to 61-1/2". The head adjusts 15 degrees in either direction. Hoist can be used for both Front Wheel and Rear Wheel Drive vehicles.

An Offset Bar is also available for attaching to the Engine Transmission Hoist for increased stability. This product, SKU #38955, is available through Harbor Freight Tools.



***READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!***

#### **The Operator**

COMMON SENSE AND CAUTION ARE FACTORS WHICH CANNOT BE BUILT INTO ANY PRODUCT. THESE FACTORS MUST BE SUPPLIED BY THE OPERATOR. PLEASE REMEMBER:

Do not operate the product if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment/reflexes might be impaired.

Do not wear loose clothing or jewelry as they can be caught in moving parts.

Protective gloves and non-skid footwear is recommended.

Wear restrictive hair covering to contain long hair.

Use eye and ear protection. Always wear: ANSI-approved impact safety goggles.

Maintain proper footing and balance at all times.

Never allow anyone under a loaded hoist.

## Work Area

TO AVOID RISK OF PERSONAL INJURY, EQUIPMENT DAMAGE, FIRE AND SHOCK, MAKE SURE YOUR WORK AREA IS:

Free of damp, wet or rainy conditions

Free of children (never let them handle tools or machinery)

Well-lit

Clean and uncluttered

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**If there is any question about a condition being safe or unsafe, DO NOT operate the tool.**

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## Before Operating

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.

Be certain to read all operating instructions on your Transmission Hoist prior to operation. Before operating your Transmission Hoist check for damaged parts. You should also:

Make sure that chains and links are in good condition and well connected.

Do a no-load test to familiarize yourself with the Transmission Hoist and to verify that everything is working properly.

Be sure to check that hooks and chains are not damaged or tangled.

Make sure all clamps, locks and bolts are tight.

If lever does not operate normally, stop using immediately! Never apply more force on Transmission Hoist than is normally required. **Note: Maximum Load Capacity = 500 Lbs. Do not exceed this capacity.** Check chains to be certain that they are moving freely and are untangled. Make certain that the load is less than rated capacity.

## Unpacking

UNPACK AND CHECK CONTENTS - See Parts Diagram on Page 6

When unpacking your Engine Transmission Hoist, check to make sure the following parts are included. If any parts are missing or broken, please call **HARBOR FREIGHT TOOLS** at **1-800-444-3353**.

## Assembly

**Before you begin to assemble your Transmission Hoist it will be useful to become familiar with the Parts Diagram found on page 6.**

- Step 1)      Attach Rubber Leg Feet (part H) to the feet of the triangle shaped Side Support Plates (part A).
- Step 2)      Bolt the Large Tube (part B) to one of the Side Support Plates (part A) using Bolts (part D). Please see diagram page 6 for illustration.
- Step 3)      Bolt the Small Tube (part C) to the other Side Support Plate (part A) using Bolts (part D).
- Step 4)      Slide the Cable Puller with Bracket (part E) onto the Large Tube with the handle towards you (See diagram page 6 for illustration).
- Step 5)      Slide the Holding Device Collar (part F) onto the Large Tube with the Weld Nut on top. Attach the Holding Device with Hook (part J) to the Holding Device Collar (part F) so that the Hook hangs on the side of the Large Tube opposite you.
- Step 6)      Slide the Anti-Slide Device (part G) onto the **end** of the Large Tube with the weld nut on top.
- Step 7)      Screw one Thumb Screw (part I) into each weld nut on each of the 3 parts you have just installed (parts E,F,G).
- Step 8)      Insert the Small Tube (part C) into the Large Tube (part B).
- Step 9)      The Anti-Slide Device (part G) is to remain positioned over the hole in the end of the Large Tube. As you adjust the Transmission Hoist from 46" to 61-1/2", the Anti-Slide Device will keep the Engine Transmission Hoist in the position you have chosen.

### **WARNING:**

- 1)      The maximum width for the Engine Transmission Hoist is 61-1/2".
- 2)      All sliding devices must remain on the Large Tube.
- 3)      Before using the Hoist be certain to tighten all 3 top mounted thumb screws.
- 4)      The maximum lift capacity for this Transmission Hoist is 500 Lbs. Do not exceed this maximum capacity.

## Operation

Never force the tool or attachment to do the work of a larger industrial tool. It is designed to do the job better and more safely at the rate for which it was intended.

Illustrations #1 and #2 below and the parts diagram found on page 6 will be useful as you learn to operate your Transmission Hoist.

### Extending Cable

Push the Drive Pawl Spring upward towards the top of the Cable Puller. Raise the handle and hold it firmly in this position. While the handle is in this position, pull up/out on the Lock Pawl while at the same time pulling the cable until sufficient slack is obtained.

### Raising Cable

Engage the drive pawl and ratchet wheel by pushing the Drive Pawl Spring in. With the handle in the downward position, each lift of the handle will wind the cable to pull the load.

### Releasing Cable Tension

Push the Pawl Spring in the same motion used in Extending the Cable. Push the handle until the Drive pawl pushes and disengages the Lock Pawl to clear the ratchet teeth. This will release the cable one notch. Repeat this action as needed until significant tension is released.

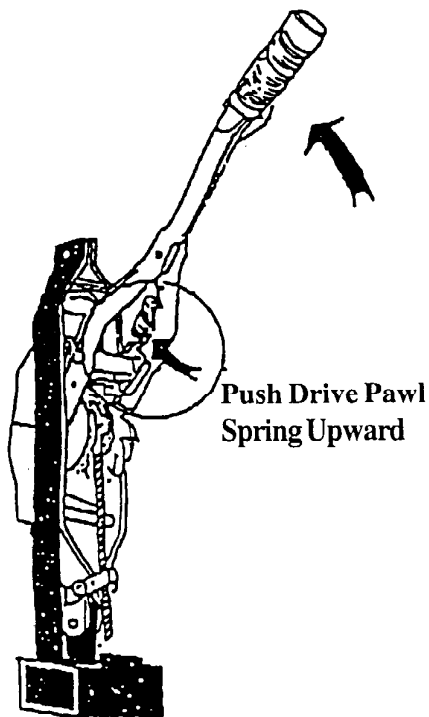


Illustration #1

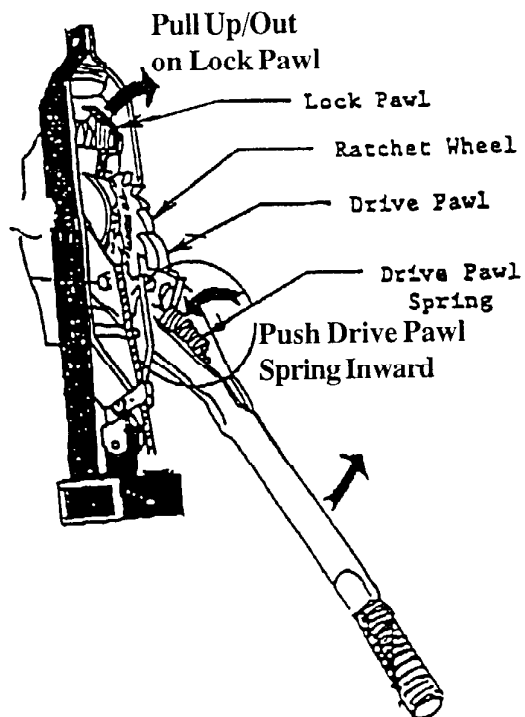
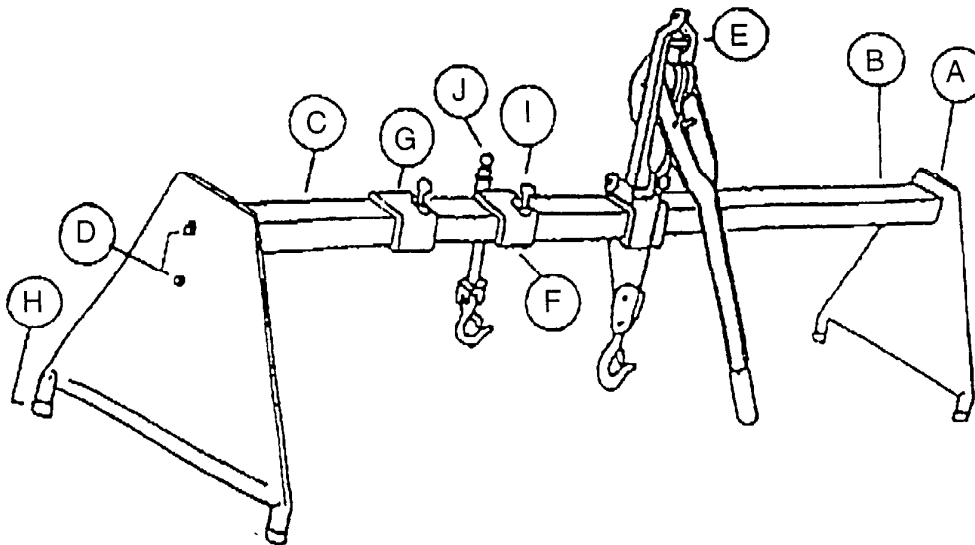


Illustration #2

# Parts Diagram

## Engine Transmission Hoist (500 Lb. Capacity)



### Parts List

No.	Description	Qty.
A	Side Support Plate	2
B	Large Tube	1
C	Small Tube	1
D	Bolt M8x30mm	4
E	Cable Puller with Bracket	1
F	Holding Device Collar	1
G	Anti-Slide Device	1
H	Rubber Leg Foot	4
I	Thumb Screw M8x25mm	3
J	Holding Device with Hook	1