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## Model Information

<table>
<thead>
<tr>
<th>MODEL NUMBER:</th>
<th>TJ12UN-TRK</th>
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<tbody>
<tr>
<td>SERIAL NUMBER:</td>
<td>___________</td>
</tr>
<tr>
<td>(Located on data plate attached to top of unit)</td>
<td></td>
</tr>
<tr>
<td>S.O. NUMBER:</td>
<td>___________</td>
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<tr>
<td>DATE PURCHASED:</td>
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BEFORE INSTALLATION AND OPERATION:

Be sure to read this owner’s manual and understand its contents prior to installation and operation of the Arrow Tree & Post Puller attachment. If there is anything in this manual you do not understand, please contact the authorized dealer from which the Arrow Tree & Post Puller attachment was purchased, or the Arrow Customer Service Team directly by calling 913-495-4803. We will be glad to answer your questions.

Arrow cares about your safety, and the safety of others who operate or are in the vicinity of the Tree & Post Puller attachment. We take great pride in engineering and building quality attachments with the operator’s safety in mind, but the responsibility for the safe use of this attachment ultimately belongs to the operator.

Never let anyone operate the Arrow Tree & Post Puller attachment unless they have first read this owner’s manual.

SPECIAL NOTE: The information and illustrations contained in this Tree & Post Puller owner’s manual were current at the time of publication. Arrow reserves the right to redesign all or any portion of this attachment and the owner’s manual at any time without notification. For questions or concerns, or to inquire about updates, please contact the authorized dealer from which the Tree & Post Puller was purchased, or the Arrow Customer Service Team at 913-495-4803 or CustServ@ArrowMHP.com
GENERAL SAFETY PRECAUTIONS
Arrow wants users to have many years of safe, low-maintenance use from the Tree & Post Puller attachment. Please read the following section regarding safety thoroughly and follow all precautions each time the Tree & Post Puller attachment is used.

SAFETY STARTS WITH YOU
If you operate or work near skid-steer loaders, take these steps to protect yourself.

This information is from the National Institute for Occupational Safety and Health at http://www.cdc.gov/niosh/skidalt.html.

1. Follow safe operating procedures:
   - Operate the loader from the operator’s compartment—never from the outside.
   - Stay seated when operating the loader controls.
   - Work with the seat belt fastened and the restraint bar in place.
   - Keep your arms, legs, and head inside the cab while operating the loader.
   - When possible, plan to load, unload, and turn on level ground.
   - Travel and turn with the bucket in the lowest position possible.
   - Operate on stable surfaces only.
   - Do not travel across slopes. Travel straight up and down slopes, with the heavy end of the machine pointed uphill.
   - Keep bystanders away from the work area.
   - Never disable safety devices.

2. Enter and exit from the loader safely:
   - Enter the loader only when the attachment is flat on the ground—or when the lift arm support is in place.
   - When entering the loader, face the seat and keep a three-point contact with handholds and steps.
   - Never use foot or hand controls as steps or handholds.
   - Keep all walking and working surfaces clean and clear.
   - Before leaving the operator’s seat:
     —lower the attachment flat to the ground,
     —set the parking brake, and
     —turn off the engine.
3. Maintain the machine in safe operating condition:

- Follow the manufacturer’s instructions.
- Keep the foot controls free of mud, ice, snow and debris.
- Regularly inspect and maintain:
  - Interlocked controls
  - Seat belts
  - Restraint bars
  - Side screens
  - Rollover protective structures (“ROPS”)
  - Falling object protection structure (“FOPS”)
- NEVER modify or bypass safety devices.
- If you must perform service under a raised attachment, use the lift arm supports.

**SAFELY CHECKING FOR HYDRAULIC LEAKS**

**WARNING:** There is significant risk of injection from the high pressure spray at hydraulic leaks.

- The energy used to operate the machine and attachments can be stored in the hydraulic system, even when the machine engine is off.
- Serious injuries from hydraulic fluid injection can seem insignificant at first. Often it can seem like a pin prick or tingling, but later it may require amputation. **HIGH PRESSURE LEAKS ARE OFTEN INVISIBLE.**
- Hydraulic system injuries can include:
  - Burns from hot fluid
  - Injection of hydraulic fluid
  - Trauma from energized components or flailing lines

**DO**

- Always Lock Out, Tag Out machine controls before working on the machine or attachment.
- Always use the methods recommended by the manufacturer to block lift arms and other moving components, to prevent accidental movement.
- Always use appropriate Personal Protective Equipment (PPE) when working on or around machinery.
- Take an approved safety course related to hydraulic systems. Local university extension programs and equipment dealers may offer training on hydraulic safety.

**DO NOT**

- DO NOT use hands, or other body parts, to inspect for hydraulic leaks. Instead, use a piece of paper or wood.
- DO NOT place hands or other body parts in pinch points when the machine has not been properly blocked and locked out.
- DO NOT “crack” a hydraulic fitting to release hydraulic pressure. Severe risk of injection.
- DO NOT tighten or loosen hydraulic components when the system is pressurized.
- DO NOT assume that the system is depressurized.
Attaching / Detaching the Tree & Post Puller

— The Arrow Tree & Post Puller attachment was built with either a universal skid-steer type coupler, or a coupler custom built to fit your machine. It should attach / detach to the machine the same as any other hydraulically powered attachment would. Please refer to the machine’s owner’s / operator’s manual for specific instructions on attaching / detaching.

— Be sure lock-down lever(s) are secured.

— The Tree & Post Puller attachment has three welded brackets for holding the hydraulic hoses out of the way of operation. Before leaving the factory, the hoses were threaded through the two front brackets. When coupling the hydraulic hoses running from the Tree & Post Puller attachment to the machine, first thread the hydraulic hoses through the third bracket, located on the lower left side of the attachment’s frame, and then connect the quick-disconnect fittings at the ends of the hoses to the machine.

DO NOT lift or sling the Tree & Post Puller in any manner that might damage a hydraulic component; these include the hoses, couplers, and cylinder.
OPERATIONAL SAFETY

WARNING: Flying debris may be created when using this attachment. Use PPE and keep all bystanders at a safe distance.

The purpose for which the Arrow Tree & Post Puller was designed may create flying debris as tree roots and posts are pulled from the ground. If a tree or post is rotted internally, when it is clamped and pulled, it may splinter and break creating flying debris. Use personal protective equipment when operating the Tree & Post Puller attachment and keep all bystanders a safe distance away. Arrow recommends inspecting your machine’s overhead guard and ROPS prior to using the Tree & Post Puller attachment to ensure compliance with all applicable safety standards.

WARNING: Do not put hands or other body parts in pinch points on the Tree & Post Puller attachment.
Tree & Post Puller Inspection Checklist

Inspect attachment prior to each use.

- ✓ Check for damaged hoses or hydraulic leaks. See hydraulic safety precautions in this manual.
- ✓ Grease all lubrication points. See grease point drawing in this manual.
- ✓ Check for cracked welds.
- ✓ Check for bent or damaged components.
- ✓ Check for damaged cylinder pins.

SECTION 4
TREE & POST PULLER
OPERATION

Operating the Tree & Post Puller Post Pulling

Approach post with attachment lowered and jaws open.

Close jaws to clamp the post with the serrated teeth of the puller.

Use lift arms to pull post from ground.

Keep the jaws clamped and use the puller to carry the post for haul off the job site.
Operating the Tree & Post Puller (Continued)

Approach tree with the attachment lowered and jaws open. When the base of the tree is snug in the throat of the jaws, clamp jaws and lift arms up to pull the tree from the ground roots and all. If the tree has stubborn roots, with jaws still clamped, drive machine backwards and forwards to ‘rock’ the trunk. Stop and try to pull up again with lift arms. Repeat until tree is removed.

After tree is pulled, use machine and arms to ‘shake’ loose dirt from roots. Use jaws to gather multiple small trees for haul off.

Close the jaws and tilt downward to gather felled trees for haul off. Loosen strong root systems prior to pulling by using the nose of clamped jaws to push the tree.
Serial Number Data Plate

Expanded Metal Step Plate
Complies with applicable SAE J185 Standards

Safety Notice Label

WARNING
To prevent serious injury or death follow all instructions. Do not operate in an unsafe manner.

- Read Owner’s Manual
- Do Not Put Hands In Pinch Points
- Avoid Flying Objects
- Beware Of Pressurized Hydraulic Fluid Leaks

- Hydraulic Hoses and flat faced couplers included with assembly.
- Max Hydraulic Pressure = 3000 PSIG.
- No special hydraulic fluid needed. Refer to the machine's owners manual for information on hydraulic fluid.
<table>
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<th>Qty</th>
<th>Description</th>
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<tr>
<td>TJ117</td>
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<td>Assy, supply hose</td>
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Overview
Arrow Material Handling Products offers a Limited Warranty on Tree & Post Pullers delivered hereunder against faulty workmanship and use of defective materials for a period of twelve (12) months from the date of shipment. Seller offers a Limited Warranty for miscellaneous parts and accessories such as cylinders, hoses, switches, valves and wiring delivered hereunder against faulty workmanship and use of defective materials for a period of three (3) months from the date of shipment. This warranty does not include, and there in hereby excludes, maintenance parts and consumables including but not limited to hydraulic fluid, oil, belts, teeth, blades, filters and other similar items.

Disassembly, modification or welding of units without Arrow’s written authorization voids the warranty. Hydraulic hoses are warranted against failure due to workmanship. Improper installation, ripping or cutting due to unauthorized modifications of Arrow installation procedures is not warranted. An Authorized Dealer or Arrow representative must install hydraulic kits and components for failures to be given warranty consideration.

No warranties are expressed or implied as to the fitness of the equipment on which the attachment or accessory is installed. The purchaser is responsible for promptly informing Arrow Customer Service of any suspected operational deficiencies or failures. Arrow is the sole party responsible for analysis of reported deficiencies or failures. Repair or replacement will be at the sole discretion of Arrow. Field repairs or modifications undertaken without prior approval by Arrow Customer Service may invalidate the warranty. All returns require a MRA. That policy and form can be found on the website or via 913-495-4803.

General
The Arrow Limited Warranty is extended only to the original purchaser and may be void in the event that the product is sold or otherwise transferred. No warranty will apply to any product that has been (i) modified, altered or adapted without Arrow’s written consent, (ii) abused or misused, (iii) repaired by any third party in a manner that fails to meet Arrow’s repair standards, (iv) improperly installed, or (v) used with any device or implement not covered by this warranty.

The warranties set forth herein are in lieu of any and all other warranties, express or implied, including the warranties of merchantability and fitness for a particular purpose. The purchaser acknowledges that no other representations or warranties were made or relied on in connection with the purchase of the Arrow Products. No person is authorized to vary, modify or change the terms of this limited warranty.

Neither party shall be liable for any indirect, punitive, special, incidental or consequential damage in connection with or arising out of the use of the property sold to the purchaser, including without limitation, loss of business, revenue, profits, goodwill, consequential damages, whether in contract or tort, including negligence.

Nothing in this warranty affects any statutory rights of consumers or other purchasers that cannot be waived or limited by contract. This limited warranty gives you specific legal rights, and you may have other rights, which vary from state to state and country to country.

Limitations
This LIMITED WARRANTY does not cover product, which in the opinion of Arrow, is damaged due to abuse, misuse, misapplication, prohibited operation, improper maintenance, alteration, unauthorized service, contamination by the base machine, or normal wear and tear. This LIMITED WARRANTY is null and void if the product is used in a prohibited operation, or unauthorized adjustment / assembly / disassembly has occurred. This LIMITED WARRANTY is the exclusive warranty and is given in lieu of any and all other warranties, whether expressed or implied, arising in any fashion including but not limited to the course of dealing and course of performance, and including but not limited to warranty of merchantability or warranty of fitness for a particular purpose. Dealers or Agents of Arrow have no authority to make any type of representation or warranties on behalf of Arrow beyond those expressly set forth in this document.

In no event shall Arrow be liable to any party, including but not limited to buyer, for any direct, incidental, consequential, punitive, or special damages, including but not limited to loss of profits, loss of productivity, in any way related to or arising, directly or indirectly, from the product. The liability of Arrow for any and all losses and damages to buyer, its successors and assigns, resulting from any cause whatsoever, including the negligence of Arrow, irrespective of whether such defects are discoverable or latent, shall in no event exceed the purchase price of the product with respect to which such losses or damages are claimed.

Please refer to Arrow’s Terms and Conditions of Sale document on the website for additional information.

2016.04.29