Read this entire manual. This safety alert symbol is used throughout this manual to call your attention to messages involving your personal safety and the safety of others. Failure to follow these instructions can result in injury or death.

⚠️ WARNING

Si no entiende ingles, se prefiere que busque a alguien que interprete las instrucciones para usted.

Owner:_____________________________________

Date Purchased: ____________________________

Manual #: 9MFORK2458378

Operator’s Manual

Danuser LLC
500 E. 3rd St.
P.O. Box 368
Fulton, MO 65251
Tel: (573) 642-2246 Fax: (573) 642-2240
E-mail: sales@danuser.com
Website: www.danuser.com
Dear Owner/Operator,

Thank you for purchasing this Danuser Pallet Fork and/or Multi-Purpose Grapple. We appreciate your business.

Your safety as an operator of our product is very important to us. Therefore, before you assemble, install, operate, maintain, service, remove, or move your Danuser Pallet Fork and/or Multi-Purpose Grapple, read and understand this manual thoroughly. If there is anything you do not understand, immediately contact your dealer, or contact our factory direct.

Phone: (573) 642-2246
Fax: (573) 642-2240
E-mail: sales@danuser.com

Your satisfaction in the performance and longevity of our product is also very important to us and can be prolonged by proper assembly, installation, operation, and maintenance as instructed in this manual.

Thank you again for your business and for your trust in our product. Please feel free to contact us at any time for further assistance.

Sincerely,

Danuser LLC
500 E. 3rd St.
P.O. Box 368
Fulton, MO  65251

Tel: (573) 642-2246    Fax: (573) 642-2240
E-mail: sales@danuser.com    Website: www.danuser.com

Danuser provides this manual "as is" without warranty of any kind, either expressed or implied. Danuser assumes no responsibility for errors or omissions. Danuser assumes no liability for damages resulting from the use of the information contained herein. Danuser reserves the right to revise and improve its products as it sees fit. This manual describes the state of this product at the time of its publication and may not reflect the product in the future.

Danuser is a registered trademark.
Please read this manual thoroughly!

Before you assemble, install, operate, maintain, service, remove, or move your Danuser Danuser Pallet Fork and/or Multi-Purpose Grapple, read this manual thoroughly. If there is anything you do not understand, immediately contact your dealer, or call our factory direct at (573) 642-2246. Powered equipment can be dangerous if not assembled, installed, operated, maintained, serviced, removed, or moved properly.

This SAFETY ALERT symbol identifies important safety messages. Carefully read each safety message that follows. Failure to understand and obey a safety message, or recognize a safety hazard, could result in injury or death to you or others around you. The operator is ultimately responsible for the safety of himself, as well as others, in the operating area of the pallet fork and/or grapple.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>! DANGER</td>
<td>Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</td>
</tr>
<tr>
<td>! WARNING</td>
<td>Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, including hazards that are exposed when guards are removed.</td>
</tr>
<tr>
<td>! CAUTION</td>
<td>Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.</td>
</tr>
<tr>
<td>NOTE</td>
<td>This is important information for proper use of this equipment. Failure to comply may lead to premature equipment failure.</td>
</tr>
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Working with unfamiliar equipment can lead to careless injuries. Read and understand this manual and the manual for your vehicle before assembling, installing, operating, maintaining, servicing, removing, or moving this Danuser Pallet Fork and/or Multi-Purpose Grapple. If there is anything in this manual you do not understand, contact your dealer or Danuser LLC. The safe use of this attachment is strictly up to you, the operator. If this attachment is used, loaned, or rented by any other person, it is the owner’s responsibility to make certain that the operator prior to operating:

- Reads and understands the Operator’s Manuals
- Is instructed in safe and proper use

- The pallet fork and/or grapple is designed to be operated from the vehicle seat. Keep bystanders away from the work area. Do not operate with another person near or in contact with any part of the pallet fork and/or grapple.

- All operators of this attachment must read and understand this entire manual, paying particular attention to safety messages and operation instructions, prior to assembling, installing, operating, maintaining, servicing, removing, or moving the pallet fork and/or grapple.

- Please remember it is also important that you read, understand, and follow the safety signs on the attachment. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety as well as the safety of others. Danuser LLC will furnish new safety signs upon request at no charge.

- All things with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices.

- Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

- When the use of hand tools is required to perform any part of assembly, installation, operation, maintenance, or service of the attachment, be sure the tools used are designed and recommended by the tool manufacturer for that specific task.

- Never check pressurized system for leaks with your bare hand. Wear proper hand and eye protection and use wood or cardboard when searching for suspected leaks. Oil escaping from pinhole leaks under pressure can penetrate skin and create a serious medical emergency. If any fluid is injected into the skin, gangrene, blood poisoning, even death may result. Obtain medical attention immediately.

- Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the pallet fork and/or grapple.

- Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, service, removal, or movement of the pallet fork and/or grapple.

- Only properly trained people should operate this equipment. Do not allow anyone who has not read this entire manual and understood the safety rules, safety signs, and operation instructions to use this attachment.

- Never allow children to operate or be around the pallet fork and/or grapple.

- Do not use the pallet fork and/or grapple as a work platform. Do not stand or climb on the pallet fork and/or grapple.

- Do not allow riders on the equipment at any time. There is no safe place for any riders.
Safety

(continued)

- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this equipment while taking prescription or over-the-counter medications.

- Safe operation of equipment requires the operator's full attention. Avoid distractions such as radio headphones, cell phones, etc. while operating.

- Stay away from power lines when transporting, raising, or operating the attachment. Electrocution can occur without direct contact.

- The pallet fork must be securely latched to the vehicle. Ensure locking pin(s) are installed and properly secured. An improperly latched pallet fork can fall without warning.

- Before you operate the attachment, check over pins and connections to be sure all are securely in place.

- Keep hands, feet, hair, jewelry, and clothing away from all moving parts.

- Never place yourself between the vehicle and the attachment.

- Never allow anyone under the attachment at any time.

- Never place your hands or fingers between the frame and the fork tine, especially when adjusting tines.

- Do not exceed the vehicle’s rated operating load. Use sufficient counterweights. Move the vehicle slowly when the attachment is raised.

- Do not exceed the pallet fork tine’s rated capacity. Always use proper length forks.

- Be sure the load does not stick out too far. A light load sticking out too far can have the same tipping effect as a heavy load carried in close.

- Check materials to be handled. Be alert for any hazardous materials that could come in contact with pallet fork or grapple.

- The pallet fork is designed to vertically lift stable objects. Only lift objects that have solid bases that rest securely on the forks.

- Do not lift any objects that exceed the height of the brick guard.

- Do not lift any objects that are not secured or banded which may be small enough to fit through the openings in the brick guard.

- Balance the load on both forks, and always keep the load level.

- Make sure loads are secure. If using the grapple and the load appears unstable, open the grapple and reposition load.

- When stacking logs or stumps, make sure stack is stable.

- Carry the load low. A heavy load can cause instability of the vehicle. Use extreme care during travel. Slow down on turns and watch out for bumps. Use all safety devices, including a seat belt, as recommended in the vehicle operator’s manual.

- For operator safety, always keep load in front of vehicle. Load should never be tilted toward or positioned over the operator.

- Do not operate the pallet fork and/or grapple on steep hillsides. When operating the pallet fork and/or grapple on uneven or hilly terrain, position the vehicle with the attachment uphill. With the attachment downhill, the vehicle could tip when attempting to raise the pallet fork. Consult your vehicle operator’s manual for maximum incline allowable.
Always shut off the vehicle engine, remove the key, lower vehicle arms, and relieve all hydraulic pressure before dismounting the vehicle. Never leave equipment unattended with the vehicle running.

Never attempt adjustments, service, or repairs while the equipment is in operation.

Never work under equipment supported by hydraulics. Even with the vehicle shut off, equipment can suddenly drop if controls are actuated or if hydraulic lines burst.

Before servicing or adjusting attachment, relieve all stored energy.

Before disconnecting hydraulic lines or fittings be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown.

Store the attachment on a flat, level surface where children do not play. Securely block and support the attachment.

Do not modify the attachment. Modifications can weaken the integrity of the attachment and may impair the safety, function, life, and performance of the pallet fork and/or grapple.

When making repairs or servicing the pallet fork and/or grapple, use only parts that meet the original equipment manufacturer's standards and requirements.

Always use care when operating the pallet fork and/or grapple. Most accidents occur because of neglect or carelessness.

Safety is a primary concern in the design, manufacture, sale, and use of pallet forks and/or grapples. Danuser confirms to you, our customer, our concern for safety.

**DANGER**

Improper operation of this pallet fork and/or grapple can cause serious personal injury or death. Operation of this attachment should only be done by a competent adult acting in compliance with the Operator's Manual. Since pallet fork and/or grapple operations are beyond our control, we disclaim all liability for any damages, injuries, or death which may result.

**WARNING**

This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).
Decals & Safety Signs

Skid-Steer
Full Brick Guard or Walk-Thru Brick Guard

The Pallet Fork Frame comes equipped with all safety signs in place. Their locations are shown in this section. Read and follow their instructions and ensure their care:

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing, illegible, or damaged.
- Ensure replacement parts installed during repair have safety signs attached.

To install new safety signs, follow these steps:
1. Clean the area where the safety sign is to be placed.
2. Spray a little soapy water on the surface where the safety sign is to be placed.
3. Peel the backing from the safety sign, and apply it in the position shown.
4. Firmly press the safety sign, and squeeze out the air bubbles with a straight edge (e.g., a credit card).

PART NO. DIG12
Location: Brick Guard, left side

PART NO. DIG11
Location: Brick Guard, right side

PART NO. CA65
Location: Upper Carriage Bar, center; Left Brick Guard, bottom

PART NO. 9875
Location: Brick Guard, top

PART NO. DIG35
Location: Upper Carriage Bar, center; Right Brick Guard, bottom

Clean or replace all safety signs if they cannot be clearly read and understood.
The Pallet Fork Frame comes equipped with all safety signs in place. Their locations are shown in this section. Read and follow their instructions and ensure their care:

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing, illegible, or damaged.
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3. Peel the backing from the safety sign, and apply it in the position shown.
4. Firmly press the safety sign, and squeeze out the air bubbles with a straight edge (e.g., a credit card).

---

**PART NO. 9875**
Location: Brick Guard, top

**PART NO. DIG12**
Location: Brick Guard, left side

**PART NO. CA65**
Location: Upper Carriage Bar, center

**PART NO. DIG41**
Location: Upper Carriage Bar, center

**PART NO. DIG11**
Location: Brick Guard, right side

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**WARNING**

Dance and Reproductive Harm  
www.P65Warnings.ca.gov/Product  
066

**WARNING**

Falling Object Hazard  
To prevent serious injury or death: 
Ensure locking pin(s) are installed and properly secured.  
082

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**WARNING**

Clean or replace all safety signs if they cannot be clearly read and understood.
Decals & Safety Signs

John Deere 600/700

The Pallet Fork Frame comes equipped with all safety signs in place. Their locations are shown in this section. Read and follow their instructions and ensure their care:

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing, illegible, or damaged.
- Ensure replacement parts installed during repair have safety signs attached.

To install new safety signs, follow these steps:

1. Clean the area where the safety sign is to be placed.
2. Spray a little soapy water on the surface where the safety sign is to be placed.
3. Peel the backing from the safety sign, and apply it in the position shown.
4. Firmly press the safety sign, and squeeze out the air bubbles with a straight edge (e.g., a credit card).

### CAUTION

Never exceed the lift capacity of the vehicle.

### WARNING

Cancer and Reproductive Harm www.P65Warnings.ca.gov/product (CMA)

FALLING OBJECT HAZARD
To prevent serious injury or death: Ensure locking pin(s) are installed and properly secured.

### DANGER

- Read and understand Operator’s Manual before operating. If you do not have an Operator’s Manual, call Danuser LLC at (617) 643-3248.
- Allow no riders on vehicle or attachment. Keep bystanders away from work area.
- For operator safety, always keep load in front of vehicle. Never position load over operator.
- Use sufficient counterweights when handling excessive loads.
- Never raise load to extreme heights on uneven ground and inclines.
- Stop engine, lower arms, and relieve all hydraulic pressure before leaving vehicle seat.
- Do not stand or work under raised load.

**PART NO. 9875**
Location: Brick Guard, top

**PART NO. DIG12**
Location: Brick Guard, left side

**PART NO. DIG11**
Location: Brick Guard, right side

**PART NO. CA65**
Location: Upper Carriage Bar, center

**PART NO. DIG41**
Location: Upper Carriage Bar, center
The Pallet Fork Frame comes equipped with all safety signs in place. Their locations are shown in this section. Read and follow their instructions and ensure their care:

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing, illegible, or damaged.
- Ensure replacement parts installed during repair have safety signs attached.

To install new safety signs, follow these steps:
1. Clean the area where the safety sign is to be placed.
2. Spray a little soapy water on the surface where the safety sign is to be placed.
3. Peel the backing from the safety sign, and apply it in the position shown.
4. Firmly press the safety sign, and squeeze out the air bubbles with a straight edge (e.g., a credit card).

**CAUTION**

Never exceed the lift capacity of the vehicle.

**WARNING**

Cancer and Reproductive Harm

Falling Object Hazard

To prevent serious injury or death:
Ensure locking pin(s) are installed and properly secured.

**DANGER**

- Read and understand Operator’s Manual before operating. If you do not have an Operator’s Manual, call Danuser LLC at (573) 842-2048.
- Allow no riders on vehicle or attachment. Keep bystanders away from work area.
- For operator safety, always keep load in front of vehicle. Never position load over operator.
- Use sufficient counterweights when handling excessive loads.
- Never raise load to extreme heights on uneven ground and inclines.
- Stop engine, lower arms, and relieve all hydraulic pressure before leaving vehicle seat.
- Do not stand or work under raised load.

**WARNING**

Clean or replace all safety signs if they cannot be clearly read and understood.
Decals & Safety Signs

The Multi-Purpose Grapple comes equipped with all safety signs in place. Their locations are shown in this section. Read and follow their instructions and ensure their care:

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing, illegible, or damaged.
- Ensure replacement parts installed during repair have safety signs attached.

To install new safety signs, follow these steps:

1. Clean the area where the safety sign is to be placed.
2. Spray a little soapy water on the surface where the safety sign is to be placed.
3. Peel the backing from the safety sign, and apply it in the position shown.
4. Firmly press the safety sign, and squeeze out the air bubbles with a straight edge (e.g., a credit card).

**PART NO. DIG33**
Locations: Grapple Jaw, top and bottom

**PART NO. DIG5**
Location: Grapple Jaw, top

**PART NO. DIG34**
Locations: Mounting Bracket, left and right side

**PART NO. DIG3**
Locations: Grapple Jaw, top and bottom

**PART NO. CA65**
Location: Grapple Jaw, top

**PART NO. DANUSER100**
Locations: Grapple Jaw, left and right side

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Specifications

Pallet Fork Frames

Operator's Manual
Direction Terminology

Front

Left

Right

Rear

Skid-Steer Full or Walk-Thru Brick Guard

John Deere 200/300/400/500

John Deere 600/700

Euro/Global

9" - 45" A
9" - 45" B
9" - 45" A
9" - 45" B
9" - 45" A & B

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Skid-Steer Full or Walk-Thru Brick Guard</th>
<th>John Deere 200/300/400/500</th>
<th>John Deere 600/700</th>
<th>Euro/Global</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Width A</td>
<td>45.5&quot;</td>
<td>45.5&quot;</td>
<td>45.5&quot;</td>
<td>45.5&quot;</td>
</tr>
<tr>
<td>Overall Width B</td>
<td>52&quot;</td>
<td>49.5&quot;</td>
<td>50&quot;</td>
<td>45.5&quot;</td>
</tr>
<tr>
<td>Frame Height C</td>
<td>35.75&quot;</td>
<td>35.75&quot;</td>
<td>35.75&quot;</td>
<td>37&quot;</td>
</tr>
<tr>
<td>Overall Height D</td>
<td>38.75&quot;</td>
<td>38.75&quot;</td>
<td>38.75&quot;</td>
<td>38.75&quot;</td>
</tr>
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</table>
Specifications

Multi-Purpose Grapples

Operator's Manual
Direction Terminology

<table>
<thead>
<tr>
<th>Multi-Purpose Grapples</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Height in Working Position (A)</td>
<td>55&quot;</td>
</tr>
<tr>
<td>Overall Height in Pinned Up Position (B)</td>
<td>69.75&quot;</td>
</tr>
<tr>
<td>Overall Jaw Width (C)</td>
<td>8.63&quot;</td>
</tr>
<tr>
<td>Clamping Force</td>
<td>9,500 lbs.</td>
</tr>
</tbody>
</table>
**Filtration Requirements:**
- A filter of, at least, 10 micron filtration is required.

**NOTE**
The life of the hydraulic componentry is almost entirely dependent upon cleanliness of the oil. Instructions in your vehicle operator’s manual regarding filter and oil changes should be carefully followed. Even small amounts of dirt in the hydraulic oil can cause premature hydraulic componentry failure that is not covered by warranty.

**Pressure Requirements:**
- The Multi-Purpose Grapple is designed to operate up to 3000 PSI.

**Hydraulic Fluid Selection Requirements:**
- Premium grade petroleum based fluids will provide the best performance.
- Fluids that contain anti-wear agents, rust inhibitors, anti-foaming agents, and oxidation inhibitors are recommended.
- The viscosity of the fluid should never fall below 70 SUS (13 cST). The best viscosity range of the Multi-Purpose Grapple is 100-200 SUS (20-43 cST).
Prepare the Vehicle
Read and understand the manual for your vehicle before assembling or installing the pallet fork. The use of the pallet fork may require the addition of counterweights to ensure the combined weight of the attachment and load does not exceed the rated capacity of your vehicle.

**WARNING**
Do not exceed the vehicle's rated operating load. If necessary, use sufficient counterweights.

**WARNING**
The pallet fork must be securely latched to the vehicle. Ensure locking pin(s) are installed and properly secured. An improperly latched pallet fork can fall without warning.

**CAUTION**
Always use two people to handle heavy, unwieldy components during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

**NOTE**
The bottom rail of the frame should be slightly off the ground to allow installation of the fork tines.

**STEP 1:** Park the vehicle on level ground, and install the frame (1) by following your vehicle operator’s manual for installing an attachment.

**CAUTION**
Never place your hands or fingers between the frame and the fork tine, especially when adjusting tines.

**NOTE**
Keep the fork tines adjusted to the maximum width for better load stability.

**STEP 2:** Completely lower the vehicle loader arms and fully roll the dump cylinders back. If the bottom rail of the frame (1) is in contact with the ground, then slightly raise the vehicle loader arms.

**STEP 3:** Shut off the vehicle engine and remove the key.

**STEP 4:** Grease the frame rails to reduce wear and make adjusting the tines (2) easier.

**STEP 5:** Position the first tine (2) in the center notch (3) of the frame. Place the top tine tab on the top rail first, so that the bottom tine tab goes into the notch (3) on the bottom rail. Lift the lever (4) and slide the tine (2) to the right. Repeat this process for the second tine (2), and slide it to the left.

**WARNING**
Never place your hands or fingers between the frame and the fork tine, especially when adjusting tines.

**NOTE**
If installing a Multi-Purpose Grapple, proceed to Step 1 on the next page.
**Assembly & Installation**

**Multi-Purpose Grapple**

**WARNING**

Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

**CAUTION**

Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

The 12085 Multi-Purpose Grapple fits Danuser Pallet Fork Frames (PNs: 12017, 12030, 12033, 12034, and 12035). See the diagram below for proper frame design.

**12085 FITS THIS FRAME DESIGN**

The 170500 Multi-Purpose Grapple fits most other pallet fork frames. See the diagram below for proper frame design.

**170500 FITS THIS FRAME DESIGN**

**Recommended Tools**

- 3/4" wrench
- 3/4" socket
- Torque wrench
- Block
- Pliers

**STEP 1:** Hook the grapple mount (1) into the slot on the bottom carriage bar of the pallet fork frame and temporarily support the bottom of the grapple mounting bracket.

**STEP 2:** Bolt on the top bracket (2), using the supplied 1/2" bolts (3) and lock-nuts (4), making sure to hook the bracket over the top rail of the pallet fork frame. Torque nuts and bolts to 100 ft-lbs. using a 3/4" wrench.

**STEP 3:** Using the 1-1/4" pin (5) and long cotter pins (6), attach the grapple jaw (7) to the grapple mount (1).
STEP 4: Install the hydraulic cylinder (8) using the 1” pin (9) and the short cotter pins (10). Route the hoses through the opening below the cylinder.

NOTE Place the hydraulic cylinder with the hydraulic ports facing down towards the Multi-Purpose Grapple.

STEP 5: Align the cylinder (8) with the mounting ears on the grapple jaw (11) and insert the cylinder rod pin (12). Attach one klik pin (13) to the locking tab (14) and the second to the cylinder rod pin (12).

STEP 6: Route hydraulic hoses out of the way, and connect them to the vehicle's auxiliary hydraulics. Test the vehicle to make sure you have enough hose length to perform the full range of the loader arms' operating heights.

WARNING Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

CAUTION Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

WARNING Keep hands, feet, hair, jewelry, and clothing away from all moving parts.

WARNING Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

WARNING Before connecting or disconnecting hydraulic lines or fittings, be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown.

NOTE Ensure quick couplers are clean prior to connection.

NOTE Hose routing is the responsibility of the operator. Pinched and/or stretched hoses are not covered under the warranty.

STEP 7: Start the vehicle. Activate the vehicle's auxiliary hydraulics to make sure the Multi-Purpose Grapple freely opens and closes.

STEP 8: Check the hydraulic system for leaks.

WARNING Never check pressurized system for leaks with your bare hand. Wear proper hand and eye protection and use wood or cardboard when searching for suspected leaks. Oil escaping from pinhole leaks under pressure can penetrate skin and create a serious medical emergency. If any fluid is injected into the skin, gangrene, blood poisoning, even death may result. Obtain medical attention immediately.
Operation

Pallet Fork

⚠️ DANGER

The pallet fork is designed to be operated from the vehicle seat. Keep bystanders away from the work area. Do not operate with another person near or in contact with any part of the pallet fork.

⚠️ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

⚠️ WARNING

Safe operation of equipment requires the operator’s full attention. Avoid distractions such as radio headphones, cell phones, etc. while operating.

⚠️ WARNING

Keep hands, feet, hair, jewelry, and clothing away from all moving parts.

⚠️ DANGER

Do not use the pallet fork as a work platform. Do not stand or climb on the pallet fork.

⚠️ DANGER

Do not allow riders on the equipment at any time. There is no safe place for any riders.

⚠️ DANGER

Do not lift any objects that exceed the height of the brick guard.

⚠️ WARNING

Do not lift any objects that are not secured or banded which may be small enough to fit through the openings in the brick guard.

⚠️ WARNING

Before you operate the attachment, check over pins and connections to be sure all are securely in place. Make sure the pallet fork is securely latched to the vehicle.

⚠️ WARNING

Do not exceed the vehicle’s rated operating load. If necessary, use sufficient counterweights.

⚠️ CAUTION

The pallet fork is designed to vertically lift stable objects. Only lift objects that have solid bases that rest securely on the forks.

NOTE

The maximum load lifted by the pallet fork should never exceed the rated capacity. The rated capacity of each pallet fork can be found on the side of the fork tine. The maximum capacity is based on a 24" load center. Lifting a load heavier than the rated capacity or centered farther than 24" out on the fork tines can result in damage to the pallet fork and will void all warranties.

STEP 1: Approach the load so the weight will be centered between the fork tines. The heaviest side of the load should be positioned closest to the pallet fork frame.

STEP 2: Make sure the fork tines are level and are completely under the load.

STEP 3: Slightly lift the load, and make sure it is secure. If the load appears to be unstable, lower it, reposition it, and repeat steps 2 and 3 until the load is stable.

⚠️ DANGER

For operator safety, always keep the load in front of the vehicle. Load should never be tilted toward or positioned over the operator.

⚠️ WARNING

Do not exceed the vehicle’s rated operating load. If necessary, use sufficient counterweights.

⚠️ WARNING

Do not exceed the vehicle’s rated operating load. If necessary, use sufficient counterweights.

⚠️ DANGER

Do not lift any objects that exceed the height of the brick guard.

⚠️ WARNING

Do not lift any objects that are not secured or banded which may be small enough to fit through the openings in the brick guard.

⚠️ DANGER

Do not use the pallet fork as a work platform. Do not stand or climb on the pallet fork.

⚠️ DANGER

Do not allow riders on the equipment at any time. There is no safe place for any riders.

⚠️ WARNING

Before you operate the attachment, check over pins and connections to be sure all are securely in place. Make sure the pallet fork is securely latched to the vehicle.

⚠️ WARNING

Do not exceed the vehicle’s rated operating load. If necessary, use sufficient counterweights.

⚠️ CAUTION

The pallet fork is designed to vertically lift stable objects. Only lift objects that have solid bases that rest securely on the forks.

NOTE

The maximum load lifted by the pallet fork should never exceed the rated capacity. The rated capacity of each pallet fork can be found on the side of the fork tine. The maximum capacity is based on a 24" load center. Lifting a load heavier than the rated capacity or centered farther than 24" out on the fork tines can result in damage to the pallet fork and will void all warranties.

STEP 1: Approach the load so the weight will be centered between the fork tines. The heaviest side of the load should be positioned closest to the pallet fork frame.

STEP 2: Make sure the fork tines are level and are completely under the load.

STEP 3: Slightly lift the load, and make sure it is secure. If the load appears to be unstable, lower it, reposition it, and repeat steps 2 and 3 until the load is stable.

⚠️ DANGER

For operator safety, always keep the load in front of the vehicle. Load should never be tilted toward or positioned over the operator.

⚠️ WARNING

Do not exceed the vehicle’s rated operating load. If necessary, use sufficient counterweights.

⚠️ WARNING

Do not exceed the vehicle’s rated operating load. If necessary, use sufficient counterweights.

⚠️ DANGER

Do not lift any objects that exceed the height of the brick guard.

⚠️ WARNING

Do not lift any objects that are not secured or banded which may be small enough to fit through the openings in the brick guard.
Operation

(continued)

DANGER

Never allow anyone under the attachment at any time.

Operation

Multi-Purpose Grapple

DANGER

The pallet fork is designed to be operated from the vehicle seat. Keep bystanders away from the work area. Do not operate with another person near or in contact with any part of the pallet fork.

WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

WARNING

Safe operation of equipment requires the operator's full attention. Avoid distractions such as radio headphones, cell phones, etc. while operating.

Pin Up the Multi-Purpose Grapple

STEP 1: Activate the auxiliary hydraulics and fully open the grapple jaw.

STEP 2: Shut off the vehicle engine.

STEP 3: Remove the klik pin stored in the locking tab (1). While securely holding the jaw upright, remove the klik pin and the cylinder rod pin connected to the jaw (2).

STEP 4: Lift the grapple jaw and fold up towards the frame. Make sure all hoses are clear from pinch points.

STEP 5: Replace the klik pin in the locking tab (4).

STEP 6: Place the cylinder rod pin and klik pin in the storage location (3).

Unpin the Multi-Purpose Grapple

STEP 1: Shut off the vehicle engine.

STEP 2: While securely holding the jaw upright, remove the klik pin and cylinder rod pin from the storage location (3), and remove the klik pin from the locking tab (4).

STEP 3: Carefully lower the jaw until the cylinder rod is lined up with the mounting tabs on the jaw (2). Install the cylinder rod pin with its klik pin.

STEP 4: Place the locking tab klik pin in the locking tab (1).

NOTE

The Multi-Purpose Grapple is designed to help secure bulky, unusually shaped, or long materials that would not stay on a pallet fork. Using the grapple accessory in any other way could damage the grapple or pallet fork.
Operation

(continued)

⚠️ WARNING

Keep hands, feet, hair, jewelry, and clothing away from all moving parts.

⚠️ DANGER

Do not use the pallet fork as a work platform. Do not stand or climb on the pallet fork.

⚠️ DANGER

Do not allow riders on the equipment at any time. There is no safe place for any riders.

⚠️ DANGER

Never allow anyone under the attachment at any time.

⚠️ WARNING

Personal protection equipment including hard hat, safety glasses, safety shoes, gloves, and ear plugs are recommended during assembly, installation, operation, maintenance, service, removal, or movement of the attachment.

STEP 1: To open and close the grapple jaw, activate the auxiliary hydraulics in one direction to open the jaw and the other direction to close the jaw.

STEP 2: With the grapple jaw in the open position, approach the load so the weight will be centered between the fork tines. The heaviest side of the load should be positioned closest to the pallet fork frame.

STEP 3: Make sure the fork tines are level and are completely under the load.

STEP 4: Activate the auxiliary hydraulics to close the grapple jaw.

STEP 5: Slightly lift the load, and make sure it is secure. If the load appears to be unstable, lower it, reposition it, and repeat steps 2, 3, and 4 until the load is stable.

STEP 6: Raise the load to the minimum height required for transport.

⚠️ DANGER

For operator safety, always keep the load in front of the vehicle. Load should never be tilted toward or positioned over the operator.

⚠️ WARNING

Do not lift any objects that exceed the height of the brick guard.

⚠️ WARNING

Do not lift any objects that are not secured or banded which may be small enough to fit through the openings in the brick guard.

STEP 7: Stay away from power lines when transporting, raising, or operating the attachment. Electrocution can occur without direct contact.

Before storage, make sure the hydraulic system is properly sealed against contaminants entering the unit. Always store pallet fork and/or grapple in a dry, covered location.

STEP 1: Lower the pallet fork and/or grapple onto a flat, level surface in an area where children do not play.

STEP 2: Disconnect the grapple hydraulic hoses (if equipped) from the vehicle's auxiliary hydraulics.

⚠️ WARNING

Before disconnecting hydraulic lines or fittings, be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown.

⚠️ NOTE

Connect the quick couplers together to prevent contaminants from entering the grapple's hydraulic system.
Proper servicing and maintenance are key to the long life of any attachment. Careful inspection and routine maintenance helps avoid costly downtime and repair. Do not use the pallet fork and/or grapple with any damaged parts.

**Maintenance & Lubrication**

**CAUTION**
Always use two people to handle heavy, unwieldy components during assembly, installation, maintenance, service, removal, or movement of the attachment.

**WARNING**
When making repairs or servicing the pallet fork and/or grapple, use only parts that meet the original equipment manufacturer's standards and requirements.

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Interval</th>
</tr>
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<tbody>
<tr>
<td>Inspect the attachment for any damage, worn parts, or cracked welds. Repair or replace as necessary.</td>
<td>Before each use</td>
</tr>
<tr>
<td>Check for damaged or missing safety signs. Replace as necessary.</td>
<td>Before each use</td>
</tr>
<tr>
<td>Check all fasteners. Ensure they are tight and secure. (See Torque Values Chart.) Replace as necessary.</td>
<td>Daily</td>
</tr>
<tr>
<td>Check all hydraulic components for leaks or wear. Repair or replace as necessary.</td>
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### Torque Values Chart

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Bolt Head Identification</th>
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<th>Grade 5</th>
<th>Grade 8</th>
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**KEY:**
in-tpi = nominal thread diameter in inches—threads per inch
Nm = Newton-meter
ft.-lbs. = foot pounds
mm x pitch = nominal thread diameter in millimeters by thread pitch

Torque tolerance +0%, -15% of torque values. Unless otherwise specified, use torque values listed above.
<table>
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<tr>
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<td>Skid-Steer Walk-Thru Brick Guard</td>
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<td>Fork Tine Set, 1-3/8&quot; x 48&quot; - 3,500 lbs. capacity</td>
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<tr>
<td></td>
<td>12059</td>
<td>Fork Tine Set, 1-1/2&quot; x 48&quot; - 5,500 lbs. capacity</td>
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</tr>
<tr>
<td>3</td>
<td>12060</td>
<td>Latch Kit</td>
<td>1</td>
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### WARNING
This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).
## Parts

**John Deere**

200/300/400/500

---

### WARNING

This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

---

**Diagram of Fork Tine Capacity**

---

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<th>PART NO.</th>
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<td>12059</td>
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## Parts

**John Deere 600/700**

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<td>Fork Tine Set, 1-1/2&quot; x 48&quot; - 5,500 lbs. capacity</td>
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<td>12060</td>
<td>Latch Kit</td>
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# Parts

**Euro/Global**

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⚠️ **WARNING**

This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).
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<td>12086</td>
<td>Danuser Grapple Mounting Bracket (12085 Kit)</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>170501</td>
<td>Other Grapple Mounting Bracket (170500 Kit)</td>
<td>1</td>
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</tbody>
</table>

**WARNING**

This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).
Accessories

⚠️ WARNING
This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

Front-End Loader Hose Kit
PN 21231 - 1/2" hose kit, 25' long, with flat face ISO couplers and pioneer couplers. Mounting bracket included for bolting or welding. Hardware not included.

Pallet Fork Grapple Kits
Maximum opening of 55". Produces 9500 lbs. of clamping force at 3000 PSI. Includes hoses with flat faced couplers.

PN 12085 - For Danuser Frame Designs

PN 170500 - For Other Frame Designs
Danuser LLC ("Danuser") warrants its products, under normal use and maintenance, to be free from defects in material and workmanship for periods specified below from the purchase date from an authorized Danuser Dealer. Start of the warranty period is determined by purchase date. Proof of purchase may be required. This Limited Warranty is extended only to the original purchaser of Danuser products.

Pallet Forks - 2 Years               Multi-Purpose Grapples - 1 Year
Wear Items Not Covered Under Warranty - Hydraulic Hoses and Seals

1. During the applicable warranty period, Danuser, at its option, will repair or replace any part determined by Danuser to be defective. Such repair or replacement shall take place at Danuser’s factory or a location designated by Danuser. Under no circumstances shall Danuser be obligated for the cost of any repair or replacement by anyone other than Danuser without its express written consent.

2. To make a claim under this warranty, first contact your authorized Danuser Dealer. The Danuser Dealer shall complete the Warranty Claim Form and obtain written authorization from Danuser to return parts. All warranty claims must include detailed information regarding make and model of vehicle on which the Danuser product was mounted, hours of use, description of events that led up to the failure, and any other information helpful in reviewing the warranty claim. All warranty returns must be prepaid. Shipments arriving at our factory on a freight collect basis will be refused by our receiving department. The freight charge will be credited if the parts are determined by Danuser to be defective, and the associated freight costs in returning those parts will be prepaid by Danuser. NOTE: Hydraulic components must arrive with all ports sealed from dirt and moisture. If a hydraulic component arrives with open ports, the warranty is void and no inspection will be made.

3. Parts may not be returned without written authorization from Danuser.

4. This warranty is void if any attempt is made to make field repairs to hydraulic components. To qualify for warranty inspection, the “failed” part(s) must be returned in its original “failed” condition.

5. Lifting a load heavier than the rated capacity or centered farther than 24” out on the fork tines can result in damage to the pallet fork and will void all warranties.

6. Products or parts thereof which, as determined by Danuser’s examination, show wear from normal use, have been improperly operated, damaged by accident or negligence, field repaired, altered or modified are not considered defective in material and workmanship and are not covered by this warranty. This warranty does not apply to parts subject to normal wear ("Wear Items") or to damage caused by the failure to perform recommended maintenance or to replace worn parts. This warranty shall not obligate Danuser to bear any cost of labor for field repair, replacement, testing, or adjustment nor for damage caused by accident, abuse, misuse, or environmental elements.

7. Some purchased components, including but not limited to hydraulic components, are subject to the inspection and warranty of the respective manufacturer. Thus, delays in a warranty determination can be expected while Danuser awaits their decision.

8. Any parts or labor required to repair or replace parts not covered under this warranty will be charged to the customer. Parts repaired or replaced by Danuser are then covered by this warranty only for the remainder of the original warranty as if such parts were original parts.

9. Danuser reserves the right to change its specifications and designs at any time.

This warranty is exclusive and in lieu of all other express warranties, if any, including the implied warranties of merchantability and fitness for a particular purpose. It shall not extend beyond the duration of the expressed warranty provided herein and the remedy for violations of any implied warranty shall be limited to repair or replacement of the defective part pursuant to the terms contained herein. No employee, dealer, salesman, or representative is authorized to change this warranty in any way or grant any other warranty. Danuser shall not be liable for any consequential, incidental, or punitive damages, losses, or expenses, including those resulting from or caused by any defects.