This instruction manual describes the installation, operation, and maintenance for a Werk-Brau Hydraulic Loader Coupler, Part Number WFLTCHYDQC. Please take the time to record the information listed below.

Serial No.:________________________________________________________

Model No.:________________________________________________________

Date Manufactured:_______________________________________________
Hydraulic Loader Coupler Introduction

Thank you for your purchase! You have received a high quality coupler that will increase a machine’s productivity and versatility by enabling the operator to change from one attachment to another very quickly. If installed and maintained properly, it should provide years of service in a rugged environment.

Hydraulic pressure to operate the coupler is provided by tapping into the machine’s pilot circuit. This instruction manual describes the installation, operation, and maintenance for the Werk-Brau hydraulic loader coupler.

NOTE: Pictures and diagrams throughout this manual may not be your exact Werk-Brau coupler. The pictures represent an action or a setup.
Safety Statement Guide

- **Danger tags** are used in major hazard situations where an immediate hazard presents a threat of death or serious injury to operator and anyone about.

- **Warning tags** are used to represent a hazard level between “Caution” and “Danger”, instead of the required “Caution” tag, provided that they have a signal word of “Warning,” an appropriate major message.

- **Caution tags** are used in minor hazard situations where a non-immediate or potential hazard or unsafe practice presents a lesser threat of injury.

- A notice label is used where equipment or property damage could result if the instructions are not followed properly.

- This symbol by itself or used with a safety signal word throughout this manual is used to call your attention to instructions involving your personal safety or the safety of others. Failure to follow these instructions can result in injury or death.

General Safety Precautions

READ MANUAL PRIOR TO INSTALLATION

Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual as well as all manuals related to this equipment and the operating machine thoroughly before beginning installation, operation, or maintenance. FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE OPERATING MACHINES MANUAL.

READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing or operating this equipment.

KNOW YOUR EQUIPMENT

Know your equipment’s capabilities, dimensions and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to assure it is tight. Make certain that all locking pins, latches, and connection devices are properly installed and secured. Remove and replace any damaged, fatigued or excessively worn parts. Make certain all safety decals are in place and are legible. Keep decals clean, and replace them if they become worn and hard to read.

PROTECT AGAINST FLYING DEBRIS

Always wear proper safety glasses, goggles with a face shield when driving pins in or out or when any operation causes dust, flying debris, or any other hazardous material.

LOWER OR SUPPORT RAISED EQUIPMENT

Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower the boom(s) to ground level or onto block(s). Lower the boom(s) and attachment(s) to the ground before leaving the cab or operator’s station.
General Safety Precautions - Continued

**WARNING**

**USE CARE WITH HYDRAULIC FLUID PRESSURE**

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your operating machines operator’s manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities. Wear safety glasses, protective clothing, and use a sound piece of cardboard or wood when searching for hydraulic leaks. **DO NOT USE YOUR HANDS!**
- If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research immediately to determine proper treatment.

**WARNING**

**DO NOT MODIFY MACHINE OR ATTACHMENTS**

Modifications may weaken the integrity of the attachment and may impair the function, safety, life and performance of the attachment. When making repairs, use only the manufacturer’s genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. For loaders, never modify any ROPS (Roll Over Protection System) equipment or device.

**!!!Any modifications must be authorized in writing by the Werk-Brau or the manufacturer!!!**

**DANGER**

**SAFELY OPERATE THE EQUIPMENT**

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, know its capabilities, dimensions, and all safety requirements. See your operating machines manual for these instructions.

- Keep all step plates, grab bars, pedals, and controls free of dirt, grease, debris, and oil.
- Be sure that all bystanders are out of harms way when operating.
- Do not allow riders on the attachment or operating machine.
- Do not operate the equipment from anywhere other than the correct operators position.
- Never leave equipment unattended with the engine running or with this attachment in a raised position.
- Do not alter or remove any safety feature from the operating machine or this attachment.
- Know your work site safety rules as well as traffic rules and flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation.

**NOTICE**

**SAFELY MAINTAIN AND REPAIR EQUIPMENT**

- Do not wear loose clothing, or any accessories that can catch in moving parts. If you have long hair, cover or secure it so that it does not become entangled in the equipment.
- Work on a level surface in a well-lit area.
- Use properly grounded electrical outlets and tools.
- Use the correct tool for the job at hand. Make sure tools are in good condition.
- Wear all protective equipment specified by the tool manufacturer.
OPERATING PRECAUTIONS

**WARNING**
DO NOT IMPROPERLY USE COUPLER
This HYDRAULIC LOADER COUPLER is designed to couple attachments and not for any other use.

**DANGER**
BE AWARE OF SURROUNDING UTILITIES
Operator must be aware of all utility line and overhead electrical lines. Operations must be able to clear all lines safely.

**DANGER**
BE AWARE OF OVERHEAD DANGER
Operator must be aware of all possible overhead dangers that are within the range of motion of the operating machine.

**WARNING**
DO NOT OPERATE WITH A LOOSE ATTACHMENT
Visually check the coupler to verify attachments are secure and lock is fully engaged and that the center to center of the attachment matches the up with the coupler.

**WARNING**
PINCH POINTS
Personal injury could result from the careless misuse of this coupler. Keep hands and body parts clear of the coupler when it’s in the process of hooking up to an attachment. Be sure the machine is off and the attachment is on the ground prior to making adjustments.

Torque Specs

Please observe these approved specs. Failure to observe these specs can result in damage and other undesirable results.

<table>
<thead>
<tr>
<th>Size</th>
<th>Dash</th>
<th>Tube O.D. (Ref)</th>
<th>Thread Size</th>
<th>37° Flare Ft. Lbs</th>
<th>Straight Thread Ft. Lbs</th>
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<td>1-7/8-12</td>
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<td>312-338</td>
<td>363-400</td>
<td>492-542</td>
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*Apply enough pipe sealer to contact all threads.

** Do not use that excess will squeeze into the hydraulic lines.

HYDRAULIC PRESSURE SETTING

**NOTICE**
Cylinder Max Pressure Setting = 2500 PSI

Do not exceed or equipment can be damaged!!!
INSTALLATION

Misuse or improper installation of this coupler could result in serious personal injury or death to the persons involved. All persons responsible for the safe installation and operation of this coupler should read this manual carefully before attempting any endeavors of installation or operation.

1. Un-package the coupler from the shipping skid, and orientate the coupler so that it can be mounted onto the loader with the original pins.

2. Mount the coupler onto the machine in a similar manner as a standard attachment. Retain the mounting pins with the retaining devices supplied with the machine.

HYDRAULIC INSTALLATION

1. Locate a good mounting location for solenoid valve near the pilot pump. Bolt or weld the valve bracket to machine in a location that allows for easy access to the ports and the solenoids. If welding be sure to disconnect the battery leads.

2. Install two – 6M Oring/- 6M JIC straight (#12) into the A & B ports in the valve.

3. Install one – 6M Oring/- 6M JIC 90° adapter (#13) into the P port in the valve and one - 6M Oring/- 6M JIC straight (#12) and one - 6 FEM JIC/- 6M JIC 90° swivel adapter (#14) into the T port of the valve.

4. Locate the pilot pump and tap into the system by an access provided or installing a tee fitting (not provided) which would provide access.

5. Measure required hose length, cut, rinse, and install a reusable – 6 FEM JIC swivel (#11) onto each end. After cutting the hose, it is important to rinse the hose with hydraulic oil. Lubricate the fittings to allow for easy installation. Install this hose from the pilot access to the P port on the valve.

6. Install two – 4M NPT/ adapters (#8) into the ends of the filter (#5) provided.

7. Run a length of the hose from the T port on the valve into the ends of the filter (#5) – locate the arrow on the filter specifying flow direction.

8. Install another hose of the required length into the opposite end of the filter (#5) and run this hose into a tank access port. If an easy access is not available, a tee fitting could be installed or the access cap on the top of the hydraulic reservoir could be removed, drilled and tapped for A-6NPT (#16) fitting provided.

9. Next, route a pair of hoses from A & B ports of the solenoid valve and down the loader arms. Be sure to allow enough hose to accommodate the motions of the loader. It is best to route the hoses near any pivot points and attach them with hose clamps (#7) and wire ties (#6) provided.

10. A manifold is mounted in the center of the coupler and the cylinders are pre-plumbed into it. Route the hoses to the cross beam of the loader (Z-Bar) attach there a loop down to the manifold of the coupler.

11. Start the machine and rotate the coupler back and forth checking for clearance. Tighten all fittings and check to see that all hoses are properly secured. Check all stop locations (roll and dump) to be sure they are contacting the coupler properly. Additional stops may need to be installed.
Hydraulic Loader Coupler

LOADER COUPLER LOWER STOP INSTALLATION INSTRUCTIONS

MAKE SURE BATTERY IS DISCONNECTED BEFORE ANY WELDING IS DONE ON MACHINE

1. WITH COUPLER ATTACHED RAISE ARMS TO FULL HEIGHT.
   SET COUPLER TO FULL DUMP THEN BACK OFF SLIGHTLY.

2. SET STOPS A AGAINST SURFACE TO STOP AGAINST AND TACK IN PLACE

3. WELD STOP BASE IN PLACE USING FOLLOWING MINIMUM WELD SIZES:
   30K lbs AND UNDER MACHINE-10mm
   ABOVE 30K lbs MACHINE-13mm
MAINTENANCE

<table>
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<th>INTERVAL</th>
<th>NOTE</th>
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<tr>
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<tr>
<td>CHECK TOP PADS ON ALL</td>
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<td>ADD SHIMS IF WORN OR LOOSE.</td>
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<tr>
<td>ATTACHMENTS.</td>
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<td>xxxxxxxxxxxxxxxxxxxxxxxxx</td>
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TROUBLE SHOOTING

Problem #1
Pins will not engage properly.

Cause/ Corrective Action
A.) Foreign debris have caused locking mechanism to bind.
B.) Verify that the attachment pin centers match that of the coupler.
C.) Verify that the coupler is not contacting the attachment.
D.) Verify that the hangers and coupler match in size and type.

Should you require any assistance or technical support, installation assistance is available by calling.

1-800-537-9561
Ask for Installation Assistance
Monday through Friday - 8:00 a.m. to 5:00 p.m. EST
Record of Revisions

<table>
<thead>
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<th>Revision</th>
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<th>Notes</th>
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<tr>
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<td>05/24/2011</td>
<td>Added Pressure Note</td>
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<tr>
<td>C</td>
<td>08/25/2012</td>
<td>Graphic revision to reflect new design</td>
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<tr>
<td>D</td>
<td>10/27/2015</td>
<td>Added stop instructions</td>
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ABOUT WERK-BRAU

Since 1947, Werk-Brau has manufactured the highest quality and most innovative specialty products for the heavy equipment industry. Werk-Brau is respected internationally for providing outstanding customer service and being dedicated to excellence in all aspects of our business. Duke Werkheiser and Dutch Brautigan, for whom the company is named after, first opened their blacksmith shop in Findlay Ohio. Still today Werk-Brau manufactures and produces in Findlay Ohio, in a state of the art facility.

Over the decades Werk-Brau has grown and become so much more than a simple blacksmith operation. Today Werk-Brau proudly employs an industry leading team of professionals who work hard to follow the vision set by the founders of Werk-Brau to “Provide Excellence in Customer Service”. As a modern company Werk-Brau is efficient, high-tech, dedicated to its customers, and deeply proud of the quality of products manufactured.

Werk-Brau manufactures a complete line of O.E.M. and replacement attachments for excavators, mini excavators, backhoes, skid steers, mini and full size loaders and crawler loaders. All over the world Werk-Brau attachments can be found hard at work in the toughest of conditions.

Made in America Since 1947!

THANK YOU FOR YOUR PURCHASE
WORK SAFE!
To learn more about your Warranty please visit:
http://www.werk-brau.com/warranty-claims

To file a Warranty Claim please visit:
http://www.werk-brau.com/warranty-claims/form

Or Call:
1-800-537-9561
American Made Since 1947

Warranty

Werk-Brau Company warrants attachments and non-hydraulic components against defaults in materials, faulty design and workmanship for a period of twelve months from the date of delivery or 2000 hours, whichever comes first. Werk-Brau’s warranty policy does not apply to purchased subassemblies including, teeth assemblies, forks, cylinders, auxiliary edges and etc. Such items are subject to OEM’s Warranty of their respective manufacturer. NO MILEAGE ALLOWANCES. Werk-Brau must approve any resolution before action is taken. To initiate a claim for warranties please visit http://www.werk-brau.com/warranty-claims/form (for dealers only).

Any warranty that requires a return to Werk-Brau must have an RGA number (see return policy)

Return Policy

Prior to any item being return it must have prior authorization from a Werk-Brau customer service representative and must have Return Goods Authorization paperwork (RGA) attached to the item and claim.

There is a $50 minimum on returns. NO RETURNS ON CUSTOM DESIGNS, NON STANDARD OR USED PARTS/ATTACHMENTS. Items ordered in error, MAY be returned with a restocking fee and freight prepaid. Item(s) that have been placed in the ground or show any signs of use, will not be considered for return. Werk-Brau Company, Inc. has the final “say so” in determining if any product can be returned.

Cancellation Policy

Orders canceled are subject to a % of the retail amount of the order. Items manufactured by the Werk- Brau Company have varied manufacturing times; therefore, this policy is at the discretion of Werk-Brau Company, Inc. If order is complete and awaiting shipment or pickup by customer, cancellation at that time, will have a penalty of 100% of the net invoice and will be charged to the purchasing customer.

PLEASE BE REALISTIC, NOT EVERYTHING IS COVERED

Due to the nature of heavy construction, there are certain things that are simply expected to wear and or replaced. These are powerful machines and inexperienced or careless operation will also cause failures.

Warranty Claims will not be considered for

- Failures due to neglect or misuse
- Paint or Finish
- Altered product
- Personal Injury or damage to machine or property
- Wear items and consumables
- Shop Supplies or environmental charges
- Travel, Downtime, Loss of Productivity, Loss of Profit
- Any Additional Warranty or Benefit Outside of Werk-Brau
- Exposure to the elements due to improper storage
- Items not supplied by Werk-Brau

*Werk-Brau holds the right to change this policy at any time without notification