



HYDRAULIC RESERVOIR SYSTEM



USE AND MAINTENANCE GUIDE



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October 2023

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WWW.IRONCRAFTUSA.COM

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REGISTER THIS PRODUCT

WWW.IRONCRAFTUSA.COM/WARRANTY/REGISTER-WARRANTY/

PURCHASE DATE

DEALER NAME

ADDRESS

PHONE NUMBER

MODEL

SERIAL



The serial number decal is located on the upper left-hand side of the reservoir tank beside the sight glass.



“WHY WOULD I WANT TO REGISTER MY MACHINE?”

HERE'S THE LOWDOWN. YOU NEED TO REGISTER YOUR NEW PRODUCT WITHIN 30 DAYS OF DELIVERY. WITHOUT REGISTRATION, YOUR WARRANTY CLAIMS WILL NOT BE HONORED.

Registering your machine means you get the full benefits of the warranty terms we offer.

Scan this QR code to our warranty page and select the “REGISTER” tab for an easy-peasy process.

You'll be glad you did.



THANK YOU

Dear Owner:

Congratulations on your choice of a Hydraulic Reservoir System. This equipment has been designed and manufactured to meet the needs of discerning users.

Many features incorporated into this unit are the result of suggestions made by customers like you. Read this manual carefully to learn how to operate the Reservoir System safely and how to set up and maintain it to provide maximum efficiency.

The system uses a PTO motor to power the Reservoir Pump. At 540 RPM, the Reservoir System provides 12.8 gpm of fluid to the mower.

By following the operating instructions in conjunction with a good maintenance program, your Trailblazer Hydraulic Reservoir System will provide many years of trouble-free service.

Sincerely,

 **IRONCRAFT**

The Ironcraft Team

INTRODUCTION

2.1 SAFE OPERATION

Safe, efficient, and trouble-free operation of your hydraulic reservoir system requires that you, and anyone else who will be using or maintaining the unit, read and understand the information contained within the Owner's Manual.

Use this manual for frequent reference and to pass on to new operators or owners.



BEFORE YOU OPERATE THE HYDRAULIC RESERVOIR SYSTEM:



READ AND UNDERSTAND MANUAL

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! The Hydraulic Reservoir System, if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this system until the user has read this manual and has developed a thorough understanding of the safety

PRECAUTIONS AND FUNCTIONS OF THE UNIT.

DO NOT modify or use this system for any application other than that for which it was designed.

ACKNOWLEDGE

your understanding of all safety instructions presented in this manual by signing the "Safety Acknowledgement Form" at the end of this manual.

This reservoir system is designed for the specific purpose of cutting grass, weeds, and light brush. DO NOT modify or use this unit for any application other than that for which it was designed.

This unit maintained or operated improperly, or by untrained personnel, can be dangerous; exposing the user and/or bystanders to possible serious injury or death.

PROVIDE USER WITH LITERATURE

Ironcraft hydraulic reservoir system owners must provide operator instructions to anyone using the unit before use, and at least annually thereafter.

2.2 INTENDED USAGE

Do not use this Hydraulic Reservoir System for any other purpose than its intended use.



NOTICE

This unit WILL NOT work on a 1000 RPM PTO.



CAUTION

Using the Reservoir System without the pressure relief valve will void the warranty and have the potential to cause damage to the offset mower and reservoir system.

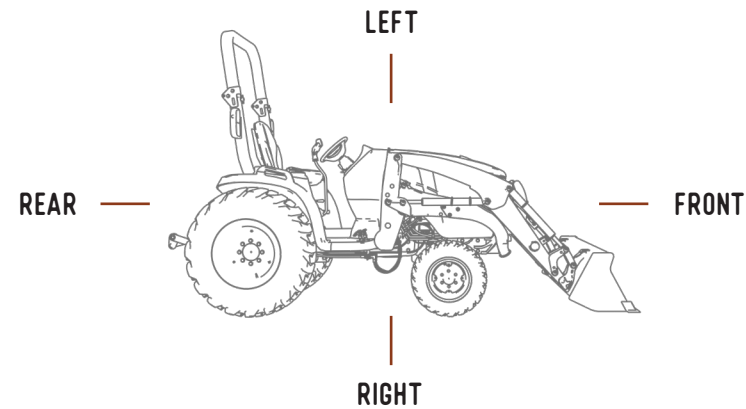


STORE THIS MANUAL IN THE DOCUMENT CANISTER ATTACHED TO THIS MACHINE LOCATED TO THE BACK OF THE RESERVOIR TANK.



2.3 OPERATOR ORIENTATION

The directions left, right, front, and rear, as mentioned throughout this manual, are as seen from the tractor operator's seat and facing in the direction of travel.



2.4 PRODUCT IMPROVEMENTS

Because Ironcraft maintains an ongoing program of product improvement, we reserve the right to make improvements in design or changes in specifications without incurring any obligation to install them on units previously sold.

2.5 DISPOSAL OF EQUIPMENT AT END OF USEFUL LIFE

The Ironcraft hydraulic reservoir system has been designed for the specific purpose of powering the offset mower. When this unit is no longer capable of doing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this unit for any other purpose.

2.6 UNANSWERED QUESTIONS

If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or:

Ironcraft
7 rocky MT Rd, Athens, Tennessee 37303
www.ironcraftusa.com
Phone: (423) 405-5150

SAFETY INFORMATION

3.1 GENERAL

Safety of the operator and bystanders is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling the equipment.

Most work-related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you assemble, operate, or maintain the hydraulic reservoir system (unit), you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform any assembly or maintenance procedures.

Improper operation and maintenance of this unit could result in a dangerous situation that could cause injury or death.



WARNING

Do not assemble, operate, or maintain the unit until you read and understand the information contained in this manual.



NOTICE

Safety precautions and warnings are provided in this manual and on the unit. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

Ironcraft cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the unit are, therefore, not all-inclusive. If a method of assembly, operation, or maintenance not specifically recommended by us is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the unit will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time without notice.

3.2 SAFETY SYMBOLS

This manual and decals on this machine use safety symbols, pictograms and color coded signal words to alert you to potential hazards that may cause death or severe injury if a safety instruction is ignored. Become familiar with the following symbols.



SAFETY ALERT SYMBOL

This symbol is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

HAZARD CLASSIFICATIONS

Hazards are identified by the “Safety Alert Symbol” and followed by the signal word “DANGER”, “WARNING”, or “CAUTION”.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury \This signal word is limited to the most extreme situations.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



NOTICE

Indicates a situation which may cause damage to equipment or property. Messages are not related to personal injury.



SAFETY INSTRUCTIONS

Indicates specific safety-related instructions or procedures.

3.3 SAFETY ICON NOMENCLATURE

Pictorial icons signal a type of hazard and warn of personal protection issues, prohibited actions, and hazard avoidance.

PERSONAL PROTECTION / IMPORTANT INFORMATION



Read the manual



Maintenance procedure



Damaged hazard label



Eye protection



Fire extinguisher



First aid kit



Hand protection



Head protection



Hearing protection



Inspect equipment



OEM parts only



Protective shoes



Remove key



Set parking brake



Think safety



Transmission in park



Stop engine



Use proper support



Use proper tools



Use two people when lifting heavy objects



Visibility



Rollover protection



Wear seat belt



Weight rating



Chemical flushing kit

PROHIBITED ACTIONS



Do not alter or modify



Use proper tools



Do not weld



No alcohol



No drugs



No smoking



No young children



No riders

HAZARD AVOIDANCE



Crush hazard



Crush hazard (chock wheels)



Crush hazard (foot)



Defective or broken part



Entanglement hazard



Explosive force hazard



Explosive separation hazard



Fall hazard



Fire Hazard



Cutter blade contact hazard (hand)



Cutter blade contact hazard (foot)



Lifting hazard



Cutting hazard



Pinch point hazard



Projectile hazard



Rollover protection



Safety alert symbol



Safety shields



Sharp object hazard



Slipping Injury



Tire pressure



Tripping injury

3.4 GENERAL SAFETY INSTRUCTION

The owner/operator is responsible for the SAFE use and maintenance of the hydraulic reservoir system. Make sure anyone who is operating, maintaining, or working around the unit is familiar with the operating and maintenance procedures and related SAFETY information contained in this manual. This manual will take you step-by-step through your working day and alerts you to all good safety practices that should be used while using the unit.

In addition to the design features of the unit including safety signs, accident prevention is dependent upon the awareness, concern, prudence, and proper training of the people involved in the operation, maintenance, and storage of the unit.

In addition to this safety section, refer also to safety messages and instructions in each of the appropriate sections of the manual.

These general safety instructions apply to the overall use and maintenance of the hydraulic reservoir system.

More specific instructions on safety are found in the operation, maintenance, and storage sections of this manual. Refer to these sections before performing any of these tasks.



WARNING

Failure to comply with the following safety instructions can and will result in serious injury and possibly even death if they are not understood and followed.



READ AND UNDERSTAND MANUAL

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! The Ironcraft hydraulic reservoir system, if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this unit until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the unit.

This reservoir system is designed for the specific purpose of cutting grass, weeds, and light brush. DO NOT modify or use this unit for any application other than that for which it was designed.

This unit maintained or operated improperly, or by untrained personnel, can be dangerous; exposing the user and/or bystanders to possible serious injury or death.



WARNING



PROVIDE USER WITH LITERATURE

Ironcraft hydraulic reservoir system owners must provide operator instructions to anyone using the unit before use, and at least annually thereafter. Refer to “3.6 OSHA Training Requirements”.



STAY CLEAR

Clear the area of people, especially small children, before using the reservoir system. Under no circumstances should young children be allowed to work with or around the unit.



IMPAIRED USER HAZARD

Do not attempt to assemble, operate, or maintain this unit under the influence of drugs or alcohol. Consult your doctor before using this unit while taking prescription medications.



CRUSH HAZARD

Do not allow anyone to ride on the tractor or the reservoir system. Falling or crushing hazards can result in severe injuries or death.



FALLING HAZARD

Do not allow riders on the hitch, tractor, or hydraulic reservoir system at any time. Falling can result in severe injuries or death.



NO UNAUTHORIZED MODIFICATIONS

Do not modify the reservoir system or safety devices. Do not weld on the unit. Unauthorized modifications may impair its function and safety. Personal injury or death can result from unauthorized modifications.

If the hydraulic reservoir system has been altered in any way from the original design, Ironcraft does not accept any liability for injury or warranty.



DAMAGED PARTS HAZARD

Do not use the reservoir system if any parts are damaged. If the unit has a defect, immediately stop using it and remedy the problem before continuing.



ENTANGLEMENT HAZARD

Always disengage the PTO and turn off tractor before checking fluid level. Do not engage the tractor PTO when unhooking and hooking up the pump to the PTO shaft. Do not stand near the PTO while rotating.



CAUTION

The following safety instructions are provided to help prevent potential injury. Not following these instructions may lead to injury.



PERSONAL PROTECTION EQUIPMENT



When using this rotary cutter, wear appropriate personal protective equipment. This list may include, but is not limited to:



- Protective shoes with slip-resistant soles
- Protective goggles, glasses, or a face shield
- Protective clothing and gloves
- Safety vest (when operating near roads)
- Hearing protection



EAR PROTECTION

Wear suitable ear protection during prolonged exposure to excessive noise.



HEARING LOSS

Prolonged Exposure To Loud Noise May Cause Permanent Hearing Loss!

Working environments with noise-producing equipment can cause partial to permanent hearing loss. We recommend using hearing protection any time noise levels exceed 80 decibels (dB). Noise levels over 85 dB, on a long-term basis, can cause severe hearing loss. Noise levels over 90 dB over a period of time can cause permanent and even total hearing loss.

Hearing loss from loud noise is cumulative over a lifetime without hope of natural recovery.



CRUSH HAZARD



The tractor should be equipped with a Roll Over Protective Structure (ROPS) and a seat belt. A crushing hazard can occur if the driver is ejected from the seat while the tractor is in motion. Fasten the seat belt whenever the tractor is moving.



FIRE EXTINGUISHER

Have a fire extinguisher available for use should the need arise and know how to use it.

Always keep a fire extinguisher rated "ABC" nearby.



HIGH PRESSURE FLUIDS

Relieve the pressure before disconnecting hydraulic lines or performing work on the system.

Ensure all hydraulic fluid connections are tight. Check all hoses and lines to make sure they are in good position before applying pressure to the system.



SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.



SAFETY SIGNS

Replace any missing or hard-to-read safety signs or instructional labels. Use care when washing or cleaning the reservoir system.

Replacement safety sign locations and part numbers are provided in this manual and are available from an authorized dealer parts department or the factory.



FIRST AID KIT

Have a first aid kit available for use should the need arise and know how to use it.



HAND PROTECTION

Do not touch the exterior of the reservoir. It can become hot during operation.



THINK SAFETY!

Work SAFELY!

3.5 TRAINING

Anyone who will be using and/or maintaining the reservoir system must read, clearly understand, and follow ALL safety, operation, and maintenance information presented in this manual, other related OEM manuals, and the safety signs.

If you do not understand any information in this manual, see your dealer or contact Ironcraft before proceeding.

Do not use or allow anyone else to use this reservoir system until all information has been reviewed. Annually review this manual before the season start-up.

Make periodic reviews of SAFETY and OPERATION of the reservoir system a standard practice. An untrained operator is not qualified to use this reservoir system.

3.6 OSHA TRAINING REQUIREMENTS

The following training requirements have been taken from Title 29, Code of Federal Regulations Part 1928.57 (a) (6). www.osha.gov.

Operator instructions. At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee who operates an agricultural tractor and implements in the safe operating practices and servicing of equipment with which they are or will be involved, and of any other practices dictated by the work environment.

3.7 FEDERAL LAWS AND REGULATIONS

IMPORTANT FEDERAL LAWS AND REGULATIONS

CONCERNING EMPLOYERS, EMPLOYEES AND OPERATORS

This sections is intended to explain in broad terms the concept and effect of the following federal laws and regulations. It is not intended as a legal interpretation of the laws and should not be considered as such.

U.S. PUBLIC LAW 91-596 (The Williams-Steiger Occupational Safety and Health Act of 1970) OSHA

This Act Seeks:

“ ... to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources ... “

DUTIES

Sec. 5(a) Each Employer -

1. shall furnish to each of its employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to its employees.
2. shall comply with occupational safety and health standards promulgated under this Act.
 - b. Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his or her own actions and conduct.

OSHA REGULATIONS

Current OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved.” These will include (but are not limited to) instructions to:

Keep all guards in place when the machine is in operation;

Permit no riders on equipment;

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning, or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain equipment.

Make sure no one is within 300 feet of machinery before starting the engine, engaging power, or operating the machine.

EMPLOYEE TRACTOR OPERATING INSTRUCTIONS:

1. Securely fasten your seat belt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by tractor manufacturers.
9. When tractor is stopped, set brakes securely and use park lock if available.

CHILD LABOR UNDER 16 YEARS OLD

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102).

3.8 SIGN-OFF FORM

Ironcraft follows the general Safety Standards specified by the Farm Equipment Manufacturers Association (FEMA), and the American National Standards Institute (ANSI). Anyone who will be using and/or maintaining the hydraulic reservoir system must read and clearly understand ALL safety, operation and maintenance information presented in this manual.

Do not use or allow anyone else to use this reservoir system until all information has been reviewed. Annually review this manual before the season start-up.

Make periodic reviews of SAFETY and OPERATION of the reservoir system a standard practice. An untrained operator is not qualified to use this unit.

This sign-off sheet at the end of this manual is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in this Operator’s Manual and Parts Book and have been instructed in the operation of the equipment.

3.9 OPERATION SAFETY

Refer to the Operation section for safety recommendations related to using the reservoir system. All applicable safety recommendations in other sections should also be followed.

3.10 TRANSPORTING SAFETY

Refer to the Transporting section for safety recommendations related to transporting the reservoir system. All applicable safety recommendations in other sections should also be followed.

3.11 STORAGE SAFETY

Refer to the Storage section for safety recommendations related to storing the reservoir system. All applicable safety recommendations in other sections should also be followed.

3.12 MAINTENANCE SAFETY

Refer to the Service and Maintenance section for safety recommendations related to maintaining the reservoir system. All applicable safety recommendations in other sections should also be followed.

SAFETY SIGNS AND INSTRUCTIONAL LABELS

4.1 GENERAL INFORMATION

The types of safety signs (hazard labels) and instructional labels, along with their locations on the equipment, are shown in the following illustrations. Good safety practices require that you familiarize yourself with the various safety signs, the type of warning, and the area or particular operation related to that area that requires your SAFETY AWARENESS.

THINK SAFETY! WORK SAFELY!

Pay close attention to the safety signs and instructional labels attached to the tractor and the reservoir system. Duplicate safety signs, which are attached to the reservoir system, can also be found in this section. If the hydraulic reservoir system is missing a label or one is unreadable, replace the label before using the unit.

REPLACE MISSING SAFETY SIGNS

Replace any missing or hard-to-read safety signs or instructional labels. Use care when washing or cleaning the reservoir system.

4.2 HOW TO INSTALL REPLACEMENT SAFETY SIGNS



NOTICE

Do not install the signs if the temperature is below 50°F (10°C).

1. Clean and dry the installation area.
2. Determine the exact position before you remove the backing paper.
3. Remove the backing paper.
4. Align the sign over the specified area and carefully press the sign to the part/frame.



NOTICE

Small air pockets can be pierced with a pin and smoothed out using the piece of backing paper.

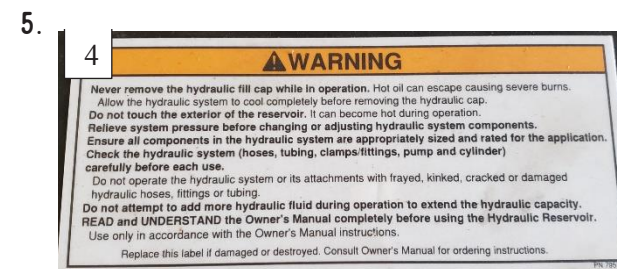
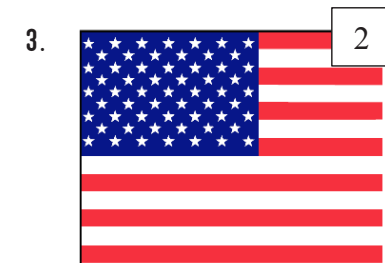


SAFETY INSTRUCTIONS

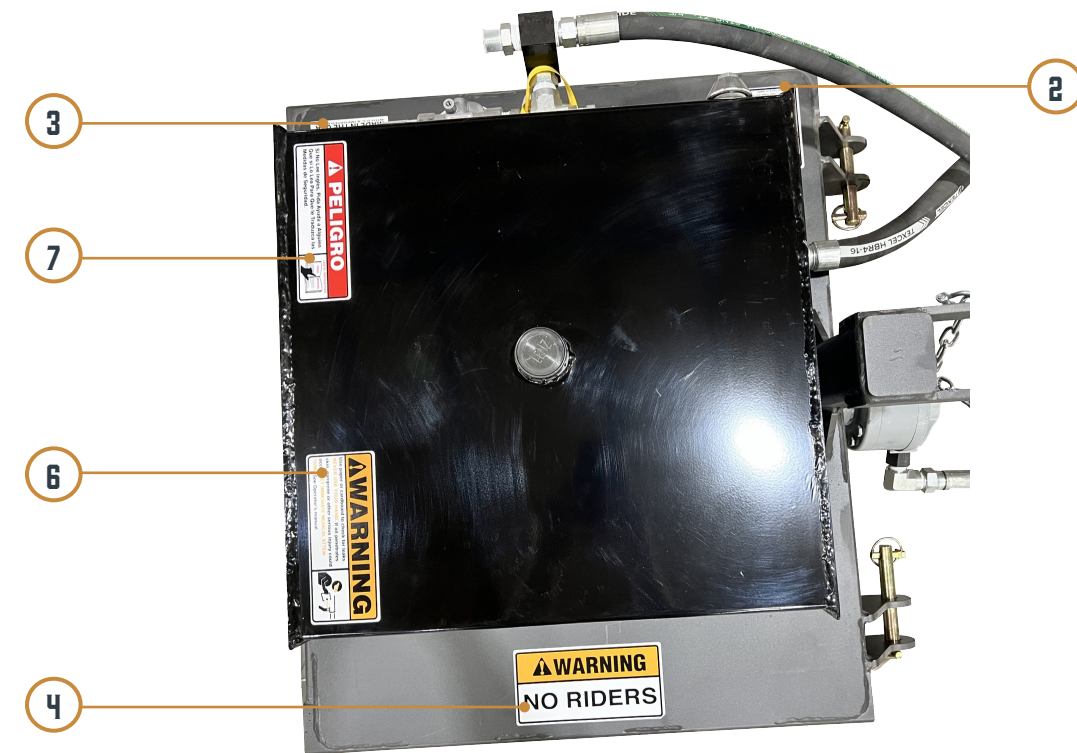
- Keep safety signs or instructional labels clean and legible at all times. Use a clean, damp cloth to clean safety decals.
 - Replace any missing or hard-to-read safety signs or instructional labels.
 - Use care when washing or cleaning the equipment not to remove or damage the labels. When using a pressure washer to clean the unit, avoid spraying too close to decals; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.
 - Locations for the labels and replacement part numbers are shown in this section.
 - Replacement parts must have replacement labels attached during installation and/or before the reservoir system is used.
6. Labels are available from your authorized dealer at no charge.

4.3 SAFETY SIGNS

The safety decals affixed to this machine are to keep you safe. DO NOT ignore these decals. Read and understand each decal's safety message. Follow these Safety Decal Instructions:



SAFETY DECAL LOCATIONS



| REF | DESCRIPTION | QTY. |
|-----|---|------|
| 1 | Scan to view manual QR code Sticker (not shown) | 1 |
| 2 | Rotating driveline hazard warning label | 1 |
| 3 | Made in the USA Note: Non-Safety Decal | 1 |
| 4 | Warning no riders | 1 |
| 5 | Hydraulic reservoir warning label (not shown) | 1 |
| 6 | Use paper or cardboard to check for leaks warning label | 1 |
| 7 | Peligro do not operate machine before reading owner's manual warning label (in spanish) | 1 |
| 8 | IronCraft Logo Decal (not shown) Note: Non-Safety Decal | 1 |

OPERATION

5.1 USER SAFETY TRAINING



WARNING



CRUSH HAZARD

The tractor should be equipped with a Roll Over Protective Structure (ROPS) and a seat belt. A crushing hazard can occur if the driver is ejected from the seat while the tractor is in motion. Fasten the seat belt whenever the tractor is moving.



ROLL AWAY HAZARD

Before leaving the tractor seat, make sure the engine is stopped, the transmission is placed in park, the key is removed, and the parking brake is set.



The weight of the tractor, plus the reservoir system if it rolls onto a person, can cause serious crushing injury or death.



STAY CLEAR

Clear the work area of all unnecessary people and obstructions to prevent personal injury.



ENTANGLEMENT HAZARD

To avoid serious injury or death, ensure PTO is off while hooking up the Hydraulic Reservoir system. Make sure the safety chain is not in the area of the PTO



THINK SAFETY

To avoid serious injury or death, do not use the hydraulic reservoir system to push or carry objects.



THINK SAFETY

Never remove the hydraulic fill cap during operation. Hot oil can escape causing severe burns. Allow hydraulic system to cool completely before removing hydraulic oil fill cap.



THINK SAFETY

Ensure hydraulic hoses are properly routed with no kinks or twists. If the hydraulic lines become pinched, kinked, or blocked they can burst leaking hydraulic fluid and could cause serious injury or death.



SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.



TRAIN UNFAMILIAR USERS

It is the Reservoir system owner's responsibility to make sure any person using the unit, especially if it is loaned or rented, has been thoroughly trained on its proper and safe use.



TRAIN ALL NEW USERS

and review instructions annually with existing users.



PHYSICALLY-ABLE

Be certain only physically-able persons will use the reservoir system.



QUALIFIED USERS ONLY

Users who have not read and understood all operating and safety instructions are not qualified to use the reservoir system.



UNTRAINED USERS

expose themselves and bystanders to possible serious injury or death.



ELDERLY

If the elderly are assisting with the work, their physical limitations need to be recognized and accommodated.



NO CHILDREN

Never allow children to operate equipment.

5.2 WORK AREA SAFETY

The following safety instructions are provided to help prevent injury or limit equipment damage.



CAUTION

Never operate the unit in darkness or foggy conditions where you cannot clearly see at least 300 feet in front and to the sides of the tractor and reservoir system.



MAKE SURE

You can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris, and foreign objects. If you are unable to clearly see these type of items, stop operating the hydraulic reservoir system.



CAUTION

Do not operate the reservoir system, or drive the tractor into material that is burning, or areas that recently burnt and may contain hot embers. Burning material, sparks, and coals could be thrown from the reservoir system to areas of vegetation that might ignite.



CARRY A FIRE EXTINGUISHER

on the tractor at all times to extinguish possible fires encountered.



DO NOT

operate the reservoir system on a tractor with an under-frame exhaust.



RAISE THE UNIT

Before turning, slightly raise the unit off the ground.



CAUTION

After the pump is hydraulically disengaged, the motor can free-wheel for several minutes. Stay clear of the shaft until it comes to complete stop.



STAY ALERT

Watch for trees, low hanging limbs, power lines, and other overhead obstacles as well as solid ground objects.

5.3 TRACTOR REQUIREMENTS



WARNING

TRACTOR OWNER/OPERATOR MANUAL



Always refer to the tractor owner's manual to ensure compatibility and maximum safety.

Operating the reservoir system with a tractor that does not meet the following requirements may cause tractor or reservoir system damage and be a potential danger to the operator and passersby.

REQUIREMENTS

The tractor used to operate the reservoir system must have the power capacity to lift and move the unit.

Minimum 15 HP required to run the Hydraulic Reservoir System.



NOTICE

Some tractors are available with multispeed PTO. Ensure your tractor's PTO is set to 540 RPM to prevent damage to the implement.



CAUTION

Do not operate the Hydraulic Reservoir System while it is unhooked from the tractor's 3-point hitch. This unit could become unstable if not properly attached to a tractor during operation.

Always review the "controls" section of the tractor operator's manual to be familiar with the location, settings, and function of the tractor controls. Be familiar with all controls before using this equipment.

- Approved Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt.
- Tractor Safety Devices; Slow Moving Vehicle (SMV) emblem, lighting.

5.4 ATTACHING TO TRACTOR

Use caution when connecting the reservoir system to the tractor. The reservoir system should be securely resting at ground level or setting on blocks. Keep hands and feet from under the unit and clear of pinch points between the tractor hitch arms and reservoir system hitch pins.



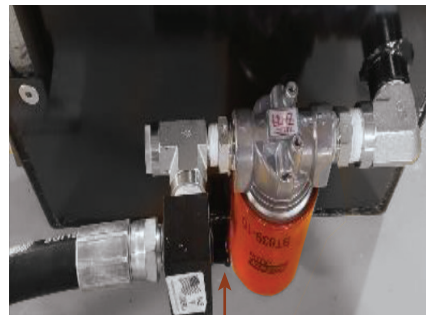
WARNING

CRUSH HAZARD



Crush hazard between tractor and reservoir system. Do not allow anyone to stand between the tractor and implement during hook-up operations.

1. Slowly back the tractor to the Hydraulic Reservoir System and align the lower lift arm hitch holes with the lug holes on the reservoir using the tractor's 3-point hydraulic controls.
2. Engage the tractor's parking brake and shut the tractor engine off. Remove the key before dismounting from the tractor.
3. With the lower hitch arms on the tractor aligned and positioned between the lug holes on the reservoir, insert the lower 3-point hitch pins through the lug holes on the reservoir. Secure the pins with lynch pins.
4. Connect top center link on the tractor to the top center link mounting holes on the reservoir system using the top link pin and hairpin cotter.
5. Connect the line from the pressure relief valve to the implement. This is the pressure line. **See 5.4A at right.**
6. Slide the spline bore of the hydraulic pump onto the tractor PTO shaft.



5.4A REMOVE PLUG AND RUN LINE TO IMPLEMENT

7. Wrap chain around a non-moving stable component to the left of the bar on the pump. Ensure the angle of the chain torque bar is at approx. 90° as shown. **See 5.4B below.**



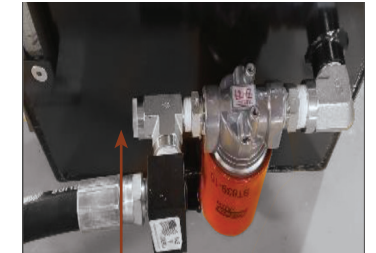
NOTICE

DO NOT attach the chain to hydraulic hoses.

8. Hook the clip in one of the chain links to keep the chain from coming loose.
9. Check the chain, clip, eye bolt, and torque bar to make sure they are secured and in place. Tighten any bolts or nuts and adjust the chain if they are loose.
10. Connect the return side from the implement to the "T" behind the pressure relief valve at the reservoir. **See 5.4C at right.**
11. Return to the tractor and slowly operate the rear hydraulic lift up and down to check for clearance. Ensure the drawbar and tires do not interfere. Move the drawbar if there is clearance issues. Raise the Reservoir System to 3-4 inches off the ground.
12. Place a level from the left side to the right side of the reservoir tank. Manually adjust the lower lift arms to level the Hydraulic Reservoir System.
13. Place the level from the front to the rear of the hydraulic tank. Adjust the length of the top center link to level the reservoir.



5.4B CHAIN TORQUE BAR IS AT APPROX. 90°



5.4C REMOVE CAP AND RUN LINE FROM IMPLEMENT TO "T".



NOTICE

The hose MUST be 5/8 inch diameter. DO NOT use smaller or larger diameter hoses.

5.5 FILL HYDRAULIC RESERVOIR

This unit is shipped without hydraulic fluid.

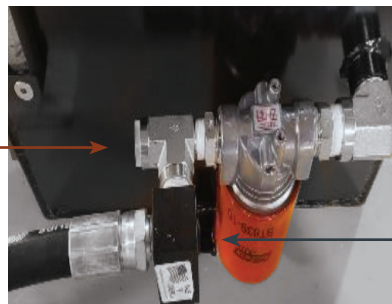
1. Make sure the unit is setting level and setting stable on a hard surface. Ensure all fittings and drain plug are screwed in tight.
2. Clean off all dirt and debris from around the fill cap.
3. Remove the fill cap and add 20 gallons of hydraulic fluid to the empty hydraulic reservoir. Do not let any dust or debris contaminate the fluid.
4. Ensure the hydraulic fluid is between low and high in the sight glass. Replace filler cap.



5.6 DETACHING FROM TRACTOR

1. Park tractor on a hard level surface. Lower 3-Point arms down until the unit is supported by the ground.
2. Unhook the safety chain, and remove the pump from the PTO shaft. Do not place the pump on the ground. Set the unit on a board or block to prolong life of the pump.
3. Unhook the return side from the “T” and coil on implement. **See 5.6A below.**
4. Unhook hydraulic hoses from the pressure side of the pressure relief valve and coil on implement. **See 5.6b below.**
5. Unhook the 3point hitch from the tractor. Install the hitch pins, lynch pins, and cotters in the reservoir system for storage
6. Check to make sure the unit, hoses, and area is clear and won't become snagged by the tractor as it moves forward. Move the tractor away from the system.

5.6A REMOVE RETURN SIDE OF HOSE FROM THIS PORT.



5.6B REMOVE LINE TO IMPLEMENT

5.7 RESERVOIR CHECKLIST

Efficient and safe operation of the reservoir system requires that every user read and understand the operational instructions and all related safety instructions outlined in this manual. This Initial Setup Checklist is provided for the user/ owner. It is important for both personal safety and to maintain the mechanical condition of the unit that this checklist is followed.

Although there are no operational restrictions on the reservoir system when used for the first time, it is recommended that the following mechanical items be checked:

AFTER 1/2 HOUR OF OPERATION:

Tighten all fasteners if necessary, and check the oil level in the reservoir.

AFTER 10 HOURS OF OPERATION:

Go to the normal servicing and maintenance schedule, as defined in the Maintenance Section.

BEFORE EACH USE OF THE RESERVOIR SYSTEM,

the following areas should be checked.

| RESERVOIR CHECKLIST BEFORE EACH USE | ✓ |
|--|---|
| Initially, retighten the bolts, nuts, and clamps as well as checking for leaks and fluid level after 15 minutes of initial use and again at 30 minutes. Recheck again before the next use. | |
| Make sure the system is positively attached to the tractor. | |
| Use only an appropriately sized tractor. Refer to “5.3 Tractor Requirements” on pg. 24. | |
| Make sure the hydraulic hose is properly attached to the tractor. | |
| Make sure all safety shields and guards are properly installed. | |
| Inspect the overall reservoir unit for potential problems or damage. Do not use the reservoir unit if it needs repairs of any type. | |

TRANSPORTING

6.1 TRANSPORTING SAFETY (ROAD)



WARNING

The following safety instructions can and will result in serious injury and possibly even death if they are not understood and followed.



TRACTOR OWNER/ OPERATOR MANUAL

Always refer to the tractor owner's manual to determine its compatibility and maximum safety.



OPERATING THE TRACTOR

Before attaching the reservoir system to the tractor, be familiar with its controls and how to stop it quickly in the event of an emergency. Read and understand this manual and the one provided with your tractor before transporting the unit.



FALL AND CRUSH HAZARD

Do not allow riders on the reservoir system or tractor.



MAXIMUM TRANSPORTING SPEED

Do not exceed 20 MPH when transporting the reservoir system. Slow down for corners and rough terrain.



VISIBILITY

Clean reflectors, SMV or SIS sign, and lights before towing. Make sure all the lights and reflectors required by highway and transport authorities are in place and can be seen clearly by all overtaking and oncoming traffic.



REGULATIONS

Make sure all local, state, and federal regulations, regarding the transport of equipment on public roads and highways, are met. Check with the local authorities regarding transporting the reservoir system on public roads. Obey all applicable laws and regulations.



ROLLOVER PROTECTION

The tractor should be equipped with a Roll Over Protective Structure (ROPS) and a seat belt.



SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.



DRIVE SAFELY

Be a safe and courteous driver. Anticipate what other drivers will do and drive accordingly.



ALLOW EXTRA DISTANCE

Apply brakes early. Leave extra distance between your vehicle and the one(s) ahead to provide adequate stopping space. Extra distance will be required to stop the vehicle.



CLEAR VISION

Remove all objects from the area that would prevent clear vision of the complete work area or would present an obstacle when moving the reservoir system.



HITCH ATTACHMENT

Be sure the reservoir system is securely attached to the tractor and in good operating condition before using.



WORKING TAILLIGHTS

Make sure lights on the tractor are working properly.



ADDITIONAL LIGHTING

For reservoir systems without lights, install additional lights on the rear of the tractor to safeguard against rear-end collisions. Daybreak and dusk are particularly dangerous and rear pilot vehicles are recommended. Reservoir systems without lights should be transported on public roads only during daylight hours.



HAZARD FLASHERS

Use hazard flashers on the tractor when transporting unless prohibited by law.



RIGHT-OF-WAY

When traveling below the posted speed limit, keep to the right and yield the right-of-way to allow faster traffic to pass.

STORAGE

7.1 STORAGE SAFETY

At the end of the season, the reservoir system should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components to prevent any unnecessary downtime at the beginning of the next season.



CAUTION

The following safety instructions are provided to help prevent potential injury. Not following these instructions may lead to injury.



PERSONAL INJURY HAZARD

Store the reservoir system in an area away from human activity. To prevent the possibility of serious injury, do not permit children to play on or around the stored unit.



CRUSH HAZARD

Always set the reservoir system on safety stands or on blocks for storage.



NOTICE

To prevent damage to the reservoir system, store it in a dry, level area.

7.2 PLACING IN STORAGE

1. Remove all entangled vegetation.
2. Thoroughly wash the reservoir system with a pressure washer or water hose to remove all grease, dirt, mud, or debris.
3. Select an area that is dry, level, and free of debris (inside a building is ideal). Move the reservoir system to its storage area.
4. Replace all damaged or missing decals.
5. Follow all detaching from tractor instructions when disconnecting tractor from the reservoir system.
6. Touch up all paint nicks and scratches to prevent rusting.

7.3 REMOVING FROM STORAGE

When removing the reservoir system from storage, follow this procedure:

1. Attach the reservoir system to the tractor 3 point hitch.
2. Raise the unit up off the blocks.
3. Before placing the reservoir system back into service, replace any worn or defective parts and perform the Pre-Operation Checklist.

SERVICE AND MAINTENANCE

8.1 MAINTENANCE SAFETY



WARNING

Failure to comply with the following safety instructions can and will result in serious injury and possibly even death.



PERSONAL PROTECTION EQUIPMENT

Wear close fitting and belted clothing to avoid getting caught in moving parts. Wear personal protection equipment (PPE), which may include hard hat, safety glasses, safety shoes, gloves, etc. appropriate for the work site and working conditions.



DAMAGED PARTS HAZARD

Do not use the reservoir system if any parts are damaged. If the unit is believed to have a defect which could cause it to work improperly, immediately stop using it and remedy the problem before continuing.

NO UNAUTHORIZED MODIFICATIONS

Do not modify the reservoir system or safety devices. Do not weld on the unit.

Unauthorized modifications may impair its function and safety and will void the warranty.

If the reservoir system has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.



CRUSH HAZARD

Always set the reservoir system on safety stands or on the ground when performing maintenance.



GOOD WORKING CONDITION

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.



REPLACEMENT PARTS

If replacement parts are necessary, genuine factory replacement parts must be used to restore the unit to its original specifications. Trailblazer will not accept responsibility for damages as a result of the use of unapproved parts.



SAFETY SHIELDS AND DEVICES

When completing a maintenance or service function, make sure all safety shields and devices are installed before placing the reservoir system in service.



WARNING

Failure to comply with the following safety instructions can and will result in serious injury and possibly even death.



HAND SAFETY

Never check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least 2 feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood. Hydraulic fluid escaping through a pinhole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death.



If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection may be a small wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.



SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.



SAFETY EQUIPMENT

A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this equipment.



CLEAN WORK AREA

Do not leave tools lying around the work area. Follow good shop practices. Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light.



USE THE RIGHT TOOLS

Use the correct tools, jacks, hoists or other tools that have the capacity for the job.



PROPER SUPPORT

Use certified safety stands rated to support the load when working beneath the reservoir system, or performing repairs, service, or maintenance.



Before working underneath the reservoir system place it on a minimum of four jack stands, with a load rating of at least 1000 lbs. each. Make sure the jack stands are stable and the reservoir system is approximately level. Test the stability of the unit before working underneath.

If the reservoir system is attached to the tractor, set the brakes, remove the key, chock the tractor wheels, and block the reservoir system before working underneath.

8.2 HYDRAULIC FLUID MAINTENANCE

One of the most important items to prevent problems is ensuring that the hydraulic oil reservoir is free of dirt and other containments.

8.2.1 CHECK FLUID LEVEL

Check the fluid level every 8 hours of operation or if a spill or leak has occurred.



NOTICE

DO NOT attempt to add more hydraulic fluid during operation to extend the Hydraulic capacity.

1. Level Hydraulic Reservoir System.
2. Clean dirt and containments around the fill cap.
3. Remove the filler cap.
4. Add Hydraulic Fluid to the reservoir until the fluid reaches between the low and high in the sight glass.
5. Put the filler cap back on.

8.2.2 REPLACE FILTER ELEMENT

Replace the filter element after every 75 hours of operation or if contamination occurs.

1. Place a drip pan under the filter to catch spilled hydraulic fluid
2. Unscrew filter element and drain the hydraulic fluid from the filter.
3. Clean the filter head
4. Replace oil filter with a conventional 10-micron filter and O-ring. Coat O-ring with clean hydraulic fluid.
5. Hand tighten filter. Tighten by turning filter an additional 7/8 of a turn.

8.2.3 CHANGE HYDRAULIC FLUID

Change hydraulic fluid every 150 operating hours or every 2 years of service, whichever comes first.

1. Unbolt reservoir and slide forward.
2. Place a container with the ability to hold 20 gallons under the drain plug.
3. Remove the drain plug and filler cap.
4. Allow the hydraulic fluid to drain from the unit completely, and then replace the drain plug.
5. Slide Reservoir back and bolt reservoir back in place.
6. Fill the reservoir with 20 gallons of hydraulic fluid and replace the fill cap.

8.3 SERVICE RECORD


The period recommended is based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication or oil changes.

Copy this page to continue record.

| MAINTENANCE TASK | HOURS | | | | | | | | | |
|--|-------------|--|--|--|--|--|--|--|--|--|
| | SERVICED BY | | | | | | | | | |
| EVERY 8 HOURS | | | | | | | | | | |
| Make sure fasteners and clamps are properly tightened. | | | | | | | | | | |
| Make sure all retainer clips and cotter pins are in place. | | | | | | | | | | |
| Check Fluid Level, and check for leaks | | | | | | | | | | |
| Inspect labels and hoses for damage | | | | | | | | | | |
| EVERY 75 HOURS | | | | | | | | | | |
| Replace Filter Element | | | | | | | | | | |
| EVERY 150 HOURS | | | | | | | | | | |
| Change Hydraulic Fluid | | | | | | | | | | |
| Check unit, motor, and hoses for damage. | | | | | | | | | | |
| Wash the reservoir system. | | | | | | | | | | |
| Fill in any nicks in the paint | | | | | | | | | | |

8.4 WELDING REPAIRS

Before performing any type of welding repair to the reservoir system, contact Ironcraft for approval. Repair welding must be done with care and with procedures that may be beyond the capabilities of the ordinary welder.



WARNING
PERSONAL INJURY HAZARD
 Repairs or modifications to the reservoir system can result in serious injury or death should these repairs fail.

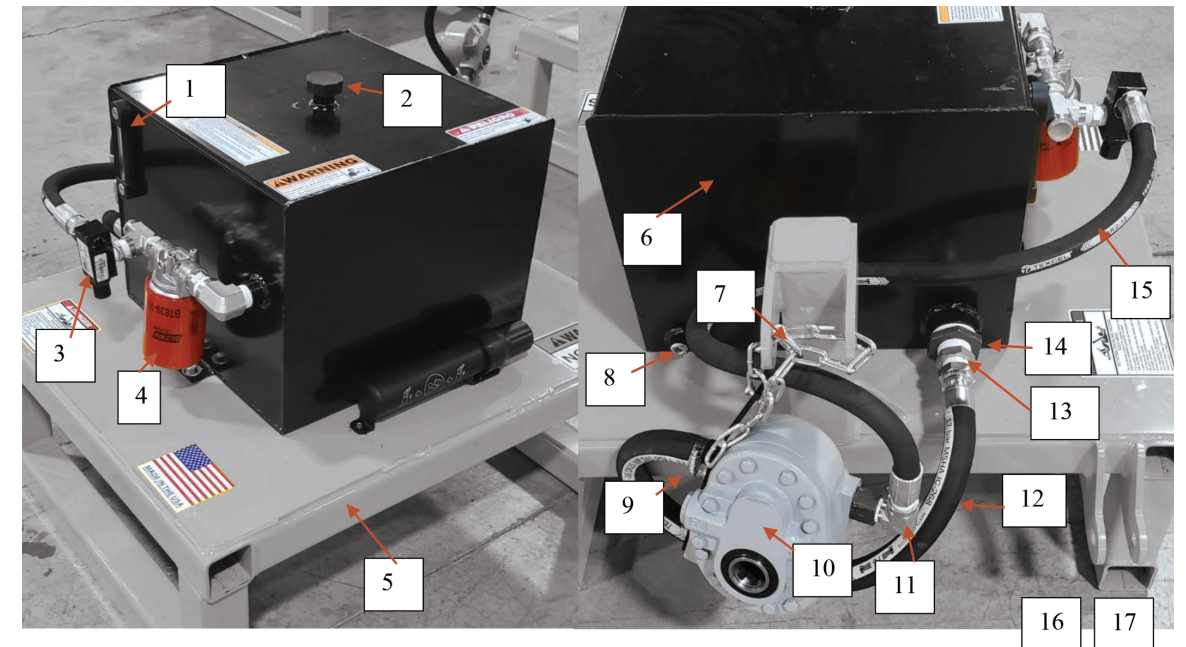
PARTS INFORMATION

Replacement parts are available from your authorized Dealer Parts Department.

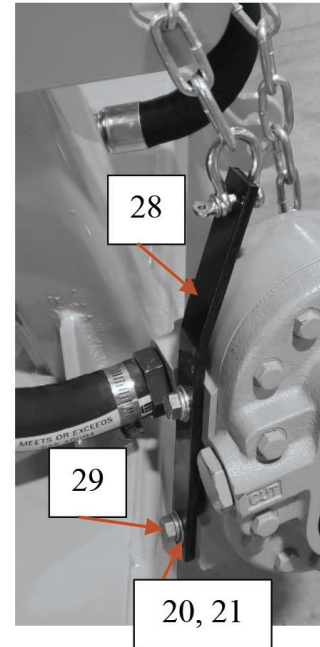
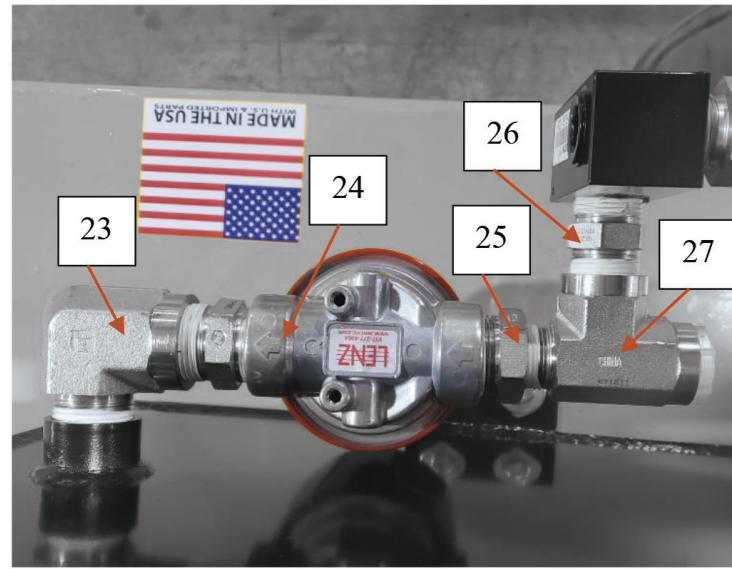
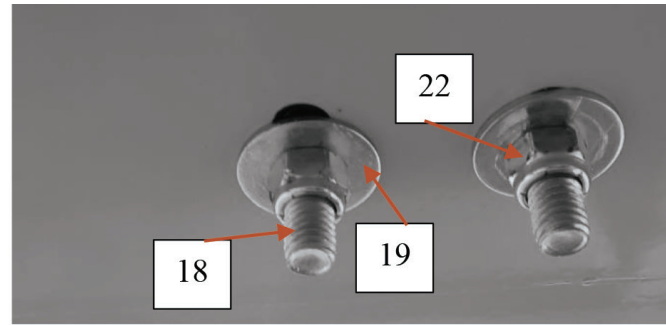
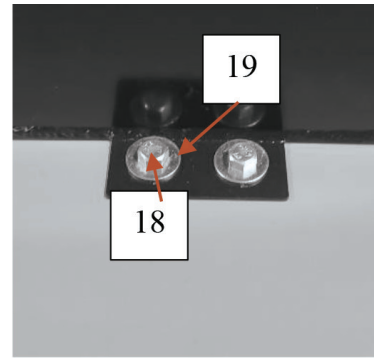
The following pages contain a list of serviceable parts for the Ironcraft reservoir system.

For hassle free service and to ensure you receive the correct parts for your implement, please provide your dealer with the following information:

| | |
|---|--|
| MODEL | |
| SERIAL NUMBER | |
| DATE OF OWNERS MANUAL (On cover Page) | |
| PARTS DIAGRAM PAGE NUMBER | |
| PART DESCRIPTION | |
| REFERENCE NUMBER | |
| QUANTITY DESIRED | |
| SHIP TO INFORMATION | |
| BILL TO / PAYMENT INFORMATION | |



| REF | PART NUMBER | DESCRIPTION | QTY. |
|-----|-------------|--|------|
| 1 | 620071 | Sight Glass | 1 |
| 2 | 620070 | Breather Cap | 1 |
| 3 | 620064 | Relief Valve | 1 |
| 4 | 620057 | 10 Micron Return Line Filter | 1 |
| 5 | 620065 | Frame Assembly | 1 |
| 6 | 620063 | Reservoir Tank | 1 |
| 7 | 620077 | 14" Safety Chain with Shackle | 1 |
| 8 | 620072 | Magnetic Drain Plug | 1 |
| 9 | 620079 | Worm Gear Clamp | 1 |
| 10 | 620066 | Pump | 1 |
| 11 | 620062 | 3/4" NPTM to 3/4" NPTF 90 Degree Elbow | 1 |
| 12 | 620054 | 1" x 36" Hose w/1" NPTM Swivel on end, open on other end | 1 |
| 13 | 620053 | 1.25" NPTM to 1" Adapter | 1 |
| 14 | 620052 | 2" NPTM to 1.25" NPTF Wire Strainer | 1 |
| 15 | 620061 | 3/4" x 48" Hose w/ 3/4" NPTM Swivel- 3.4 NPTM Fixed Ends | 1 |
| 16 | 310032 | Lynch Pin | 2 |
| 17 | 310031 | Lift Pin Cat. #1-Handle Type | 2 |



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| REF | PART NUMBER | DESCRIPTION | QTY. |
|-----|-------------|---------------------------------------|------|
| 18 | 620067 | 7/16"-14 x 1.5" Bolt | 4 |
| 19 | 620069 | 7/16" Flat Washer | 8 |
| 20 | 620075 | 3/8 Lock Washer | 2 |
| 21 | 620076 | 3/8" Flat Washer | 2 |
| 22 | 620068 | 7/16"-14 Lock Nut | 4 |
| 23 | 620055 | 1" NPTM 90 Degree Elbow | 1 |
| 24 | 620056 | 1" NPT Hydraulic Filter Head | 1 |
| 25 | 620058 | 1" NPTM to 3/4" NPTF Adapter | 1 |
| 26 | 620059 | 3/4" NPTM to 3/4" NPTM Adapter | 1 |
| 27 | 620060 | 3/4" NPTM x 3/4" NPTF x 3/4" NPTF Tee | 1 |
| 28 | 620073 | Torque Bar | 1 |
| 29 | 620074 | 3/8"-16 x 1.25" | 2 |

WARRANTY

7.1 LIMITED WARRANTY

Ironcraft (the “Manufacturer”) warrants, only to the original Purchaser, this equipment will be free from defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase providing this equipment is purchased for individual use only. Commercial use of this equipment is not covered under any warranty. This warranty does not apply to any equipment which has been damaged or which has been subjected to change, misuse, negligence, abnormal wear and tear, alterations, tampering, or failure to follow operating instructions. This warranty does not cover any product or parts not manufactured by Ironcraft.

Ironcraft reservoir system has a 60 day Limited Warranty* on the pump provided it has been properly maintained** and has not been subjected to abuse or misuse.

Warranty coverage and performance is expressly conditioned upon the return of the completed registration. See 7.2 Warranty Service procedure.

Ironcraft reserves the right to make improvements and changes in specifications without notice or obligation to modify previously sold units. The Owner’s Manual describes the proper assembly procedures for your implement and furnishes operating and maintenance recommendations to help you obtain long and satisfactory service.

PURCHASER’S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY, OTHER DEFECT, OR CONDUCT GIVING RISE TO LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT SOLD, AND THE MANUFACTURER UNDER NO CIRCUMSTANCES SHALL BE LIABLE FOR ECONOMIC LOSS OR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

Purchaser and Ironcraft hereby (a) submit to the non-exclusive jurisdiction of the courts of competent jurisdiction in Meigs County, Tennessee, and the United State District Court for the Eastern District of Tennessee for resolution of any dispute concerning this Limited Warranty or the rights or obligations of Purchaser and/or Ironcraft; (b) agree that any litigation commenced in Tennessee in connection with this Limited Warranty shall be venued in either the Meigs County, Tennessee District Court, or the United States District Court, Eastern District of Tennessee, Southern Division, and (c) waive any objection it may have as to any such action or proceeding brought in such court that such court is an inconvenient forum. Nothing herein shall limit the right of Purchaser or Ironcraft (or the right of any permitted successor or assign of either) to bring proceedings against the other in the courts of any other jurisdiction wherein any assets of such other party may be located.

7.2 WARRANTY SERVICE

WARRANTY SERVICE PROCEDURE

RGA (Returning Goods Authorization) Policy:

If repairs are required, Ironcraft must obtain an RGA number from the manufacturer of the defective part and proof of purchase. RGA and services are rendered by Ironcraft only. Any responsibility of shipping costs on any item returned for repair is at the discretion of Ironcraft.

All returned parts must have:

1. A legible RGA number written on the outside of the package.
2. A Service Request Form.
3. The defective part.

RGA numbers are only valid for 30 days from the date of issue. All shipped replacement parts will require a PO number from the original Ironcraft Customer. If the defective part is rendered non-warranty, the PO number will be invoiced for the replacement. Should you have any problems with your attachment, please follow the following procedures to obtain service.

Call the Warranty Department at (336) 859-2002 ext 215. You will need to provide the model and serial number of the defective item(s), a description of the problem and have photographs available.

Upon a warranted issue, visit www.ironcraftusa.com, click on the warranty tab, and fill in the warranty information. Ironcraft will retain an RGA number from the manufacturer of the defective part. If all the information above is fulfilled the manufacturer will issue an RGA number.

Obtain a PO number from the original Ironcraft customer. PO numbers will be invoiced in the event the defective part(s) is un-warranted

Ironcraft will ship a replacement part with a Service Request Form and RGA #. There will be a call tag with the Manufacturer’s address and instructions for returning the defective part.

Once the defective part is warranted by the manufacturer, Ironcraft will be issued a credit and the PO number will be void.

In the event the manufacturer renders that the attachment be returned to Ironcraft for repair, Ironcraft will make arrangements for pickup and return. Repairs will be performed by Ironcraft qualified technicians. Non-warranted issues will be discussed and repairs will be performed upon agreement of the owner, and payment for parts and labor will be issued.



7 ROCKY MT RD
Athens, Tennessee 37303



(P) 423-405-5150
(F) 423-405-5904
WWW.IRONCRAFTUSA.COM



Revised October 20, 2023 1:13 AM
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