# 2416/3020

## CROSSFIRE HOSE REEL(305-0000)
## OPERATIONS AND MAINTENANCE MANUAL

ONLINE RESOURCES

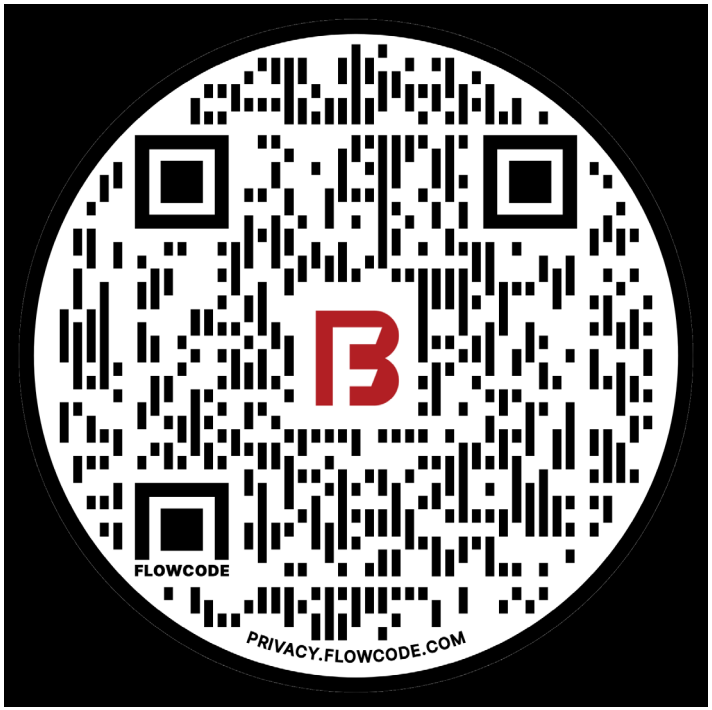



BAZOOKA FARMSTAR

8/27/2026

# OVERVIEW

The Crossfire Series - 2416 Hose Reel has been designed from the ground up for convenience, safety, and performance. The redesigned 2416 retains all the hardworking, user-friendly features you've come to expect from the Bazooka Crossfire Series turntable reels and includes several upgrades to make rolling hose as fast, efficient, and safe as possible




**For videos and additional resources, point phone camera at QR code and click the link.**

*https://bazookafarmstar-5546834.hs-sites.com/en-us/en-us/resourcehub-crossfire*

# TABLE OF CONTENTS

3. SAFETY AND WARNINGS (1)
4. SAFETY AND WARNINGS (2)
5. SAFETY SIGN LOCATIONS
6. HOSE REEL SPECIFICATIONS
7. SUGGESTED TRACTOR REQUIREMENTS
8. HOSE REEL OPERATION (1)
9. HOSE REEL OPERATION (2)
10. MAINTENANCE - CHAIN
11. MAINTENANCE – GREASE POINTS
12. MAINTENANCE – WHEEL HUBS, BRAKES, SHACKLES
13. MAINTENANCE – TIRES
14. HYDRAULIC JACK OPTION
15. OTHER NOTES
16. BAZOOKA FARMSTAR WARRANTY POLICY (1)
17. BAZOOKA FARMSTAR WARRANTY POLICY (2)

# SAFETY AND WARNINGS

**BEFORE OPERATION:**

- **Warning: Operating this equipment without experience and a thorough understanding of how it functions could result in damage to the equipment, injury, or death**
- Read and understand this manual and all safety signs before operating and maintaining. Review the safety instructions and precautions annually
- The Crossfire should only be operated by responsible persons who have thoroughly read the operators manual and have been properly instructed to do so. Do not allow untrained persons to operate the machine
- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty
- Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing
- Give the unit a visual inspection for any loose hardware, worn parts or cracked welds, and make necessary repairs prior to using the product
- Check all hose clamps for a tight fit before operating

**HIGHWAY AND TRANSPORT OPERATIONS:**

- Always utilize safety chains when transporting on public highway. Follow state and local regulations regarding safety chain and auxiliary lighting
- Always drive at safe speeds that match the rated speed of the tires. Ensure your speed is low enough for an emergency stop to be safe and secure.
- Watch for obstructions overhead and to the side during transport
- Use caution working on or near the machine. Identify slippery or rough terrain and plan accordingly to safely navigate these areas

# SAFETY AND WARNINGS

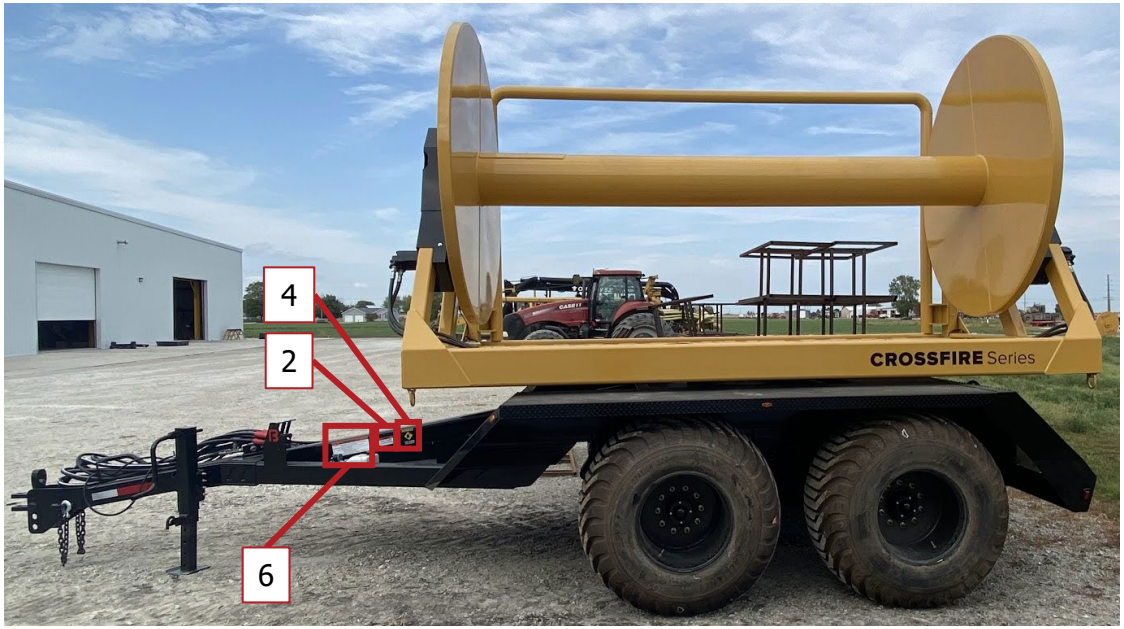
**DURING OPERATION:**

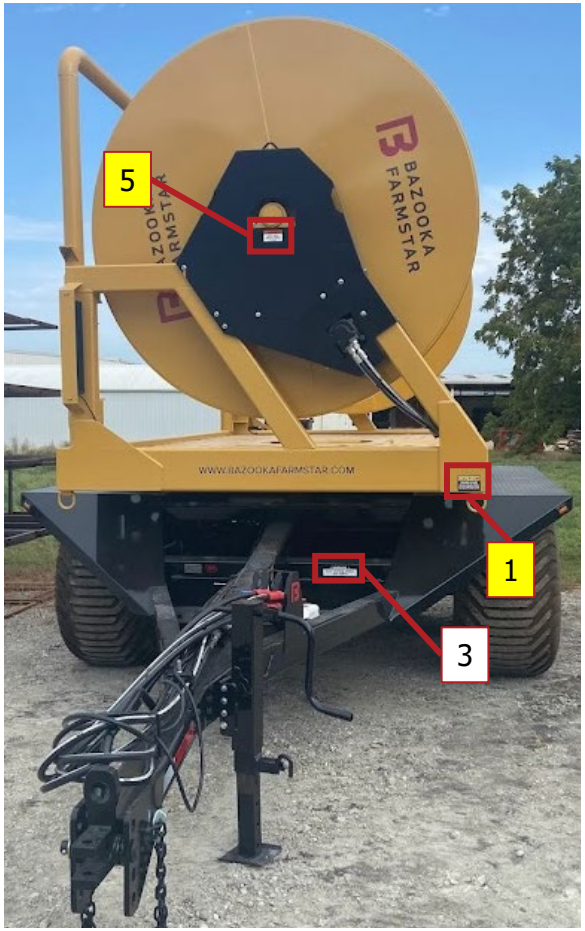
- Do not attempt to operate this equipment under the influence of drugs or alcohol
- Ensure operator and bystanders are entirely clear of machine before starting and operating
- Stay clear of any moving parts, such as shafts, couplings and universal joints. Do not wear loose fitting clothing which may catch in moving parts. Wear closed-toe shoes and protective clothing.
- Be certain all shields and guards are kept in place during operation. Use proper safety lockout/tagout procedures when performing any machine service or maintenance.

**PERFORMING MAINTENANCE:**

- Follow the maintenance schedule outlined in this manual. It is the owner's responsibility to ensure the equipment has been maintained for operation.
- Do not attempt any maintenance or service procedure without proper safety precautions and training.
- Wear appropriate PPE (Personal Protective Equipment) such as, but not limited to, safety glasses, steel toe shoes, gloves, and hearing protection when performing service or maintenance on machine.
- Hydraulic system parts and connections can contain high pressures which, if suddenly and unexpectedly released, can cause serious injury or death. Do not check for leaks with your bare hands.
- Hydraulics may be pressurized even with machine off. Use caution when removing hydraulic hoses or components.
- Repair any loose or damaged hydraulic hoses. Inspect all hoses carefully before use. Tighten all connections securely.
- Do not perform maintenance with engine running.
- Park machine on flat level ground and chock tires before performing maintenance.
- Support equipment properly at all times so there is no chance of accidental collapse or tipping, especially when working beneath it.

# SAFETY SIGN LOCATIONS




*highlighted items are on both sides of the machine*




1




2




3




4



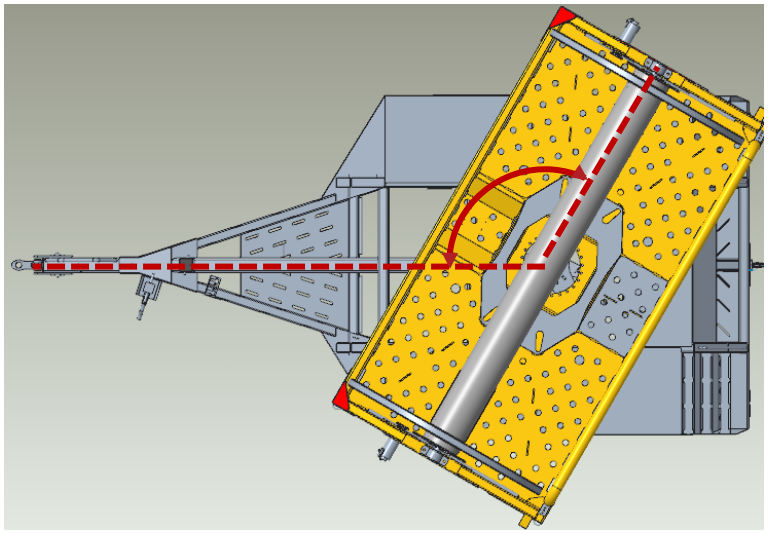

5




6

# HOSE REEL SPECIFICATIONS

| REEL | 2416 | 3020 |
|---|---|---|
| 6″ HOSE CAPACITY – 660′ SECTION | 24 SECTIONS – 3 MILES | 30 SECTIONS – 3.75 MILES |
| 8″ HOSE CAPACITY – 660′ SECTIONS | 16 SECTIONS – 2 MILES | 20 SECTIONS – 2.5 MILES |
| EMPTY WEIGHT | 16500 LBS | 17200 LBS |
| ESTIMATED LOADED WEIGHT | 46900 LBS | 51050 LBS |



- The reel rotates 120 degrees from transport mode

# SUGGESTED TRACTOR REQUIREMENTS

| 2416 AND 3020 CROSSFIRE | |
|---|---|
| MAX SYSTEM PRESSURE | 3000 PSI |
| MAX MOTOR PRESSURE | 2400 PSI |
| MINIMUM HYDRAULIC FLOW REQUIREMENT | 30 GPM |
| SUGGESTED HYDRAULIC FLOW | 60 GPM |
| STANDARD PORT REQUIREMENT | 3 SCV |
| HYDRAULIC BRAKE OPTION | YES |

# HOSE REEL OPERATION

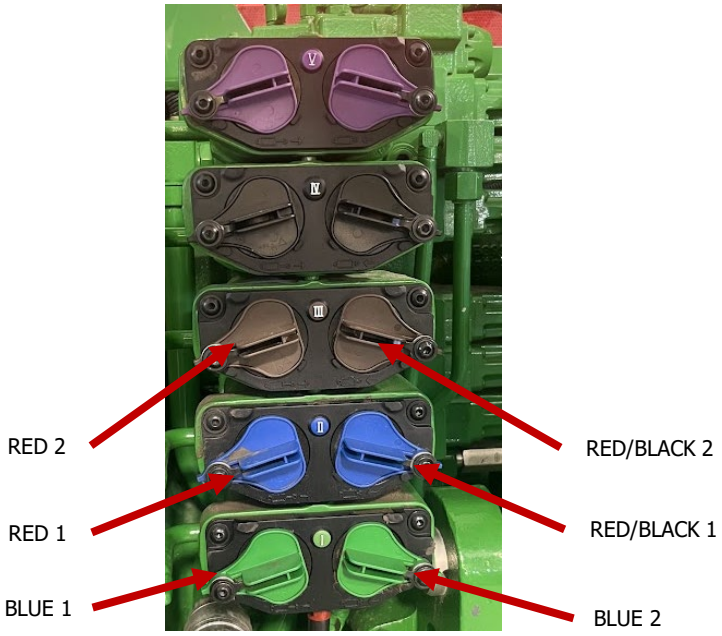
**PRE-OPERATION:**

- Visually inspect hose reel for any damage, bent components or visual cracks that could cause larger issues if ignored.
- Inspect hydraulic lines for any wear or cuts
  - Make sure all connection are tight and no leaks are present
- Check hydraulic fluid levels in the tractor
  - Follow tractor manual for suggested level

**HOSE REEL HOOKUP:**

- When hooking hose reel to tractor
  - Change hitch position to ensure the hose reel is pulled level during operation.
  - Verify you have the correct pin size for the hitch in use
- The hose reel will come standard with 6 hydraulic hookups
    - Red – Reel Rotation 1
    - Red/Black – Reel Rotation 2
    - Blue – Turn Table Rotation
  - Ensure hookups are clean before connecting to SCVs
  - Plug both BLUE hoses into SCV 1
  - Plug RED hoses into port 1 of SCV 2 and SCV 3
  - Plug RED/BLACK hoses into port 2 of SCV 2 and SCV 3





# HOSE REEL OPERATION

- To operate hose reel in low-speed use SCV function 2
- To operate hose reel in high-speed use SCV function 2 and 3 in parallel to double the flow to the motors
  - Make sure functions are operating in parallel
  - if hydraulic lines are hooked up incorrectly, with oil flowing in opposite directions, the hose reel will not spin and if continuously applied could cause damage to the hydraulic pumps in the tractor.
    - Refer to page 8 for correct hydraulic hookup instructions

- **<u>Applying extra flow to the motors does not increase the motor torque.</u>** Do not use "high speed" function in high torque applications as excess flow going over relief will causing hydraulic fluid to warm quickly.
- To begin reeling or unreeling hose, start by opening flow in low speed. Once the reel begins to turn at a constant speed high speed flow can be applied.
- When reeling hose onto the reel, loading the hose in layers evenly across the reel will lead to the maximum amount of hose capacity. Use function 1 to rotate the reel when collecting hose to evenly load.
- To slow reel, slowly pull off/float hydraulic functions to prevent cavitation in the hose reel motors or damage to pumps.
- The hose reel has a tow rating of 30 ton GVWR. Make sure towing vehicle has the brake capacity to handle hose reel and towed weight.



# MAINTENANCE - CHAIN

**PRE-OPERATION:**

- Visually inspect chains and sprocket components for any dirt, debris or wear. Clean any debris and replace worn or damaged components.

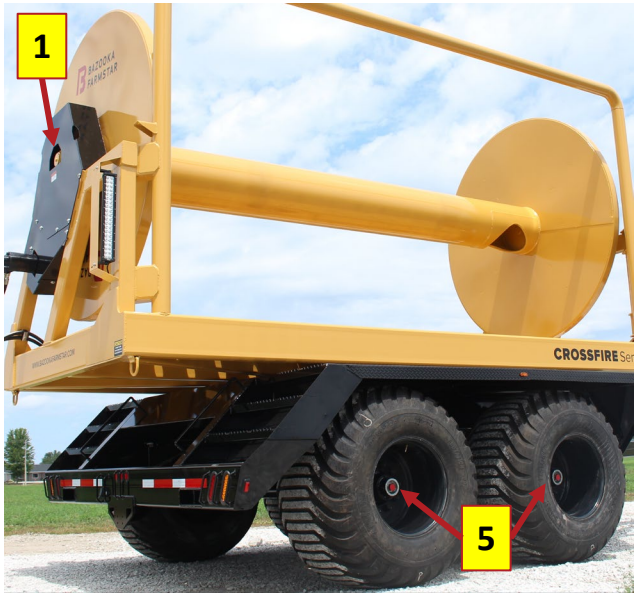
**DURING OPERATION:**

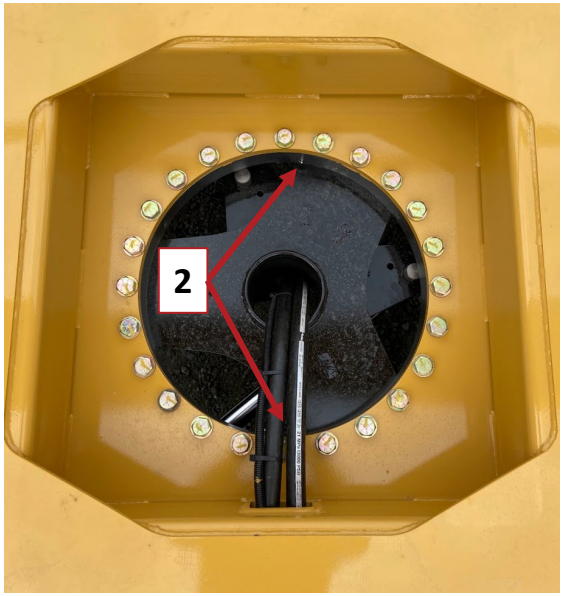
- Make sure chain is properly tensioned using the tensioner bolt (1) on the motor mount.
  - When properly tensioned the chain moving from the drive gear to the driven gear should be tight and the chain moving from the driven gear to the drive gear should have a small amount of slack
  - Chain may elongate after multiple uses with heavy loads. If the motor mount has maxed out the available slot a chain link may need to be removed to properly tension chain.
- When operating verify chain is moving freely without binding or sticking. Apply chain lubricant as needed for smooth operation.

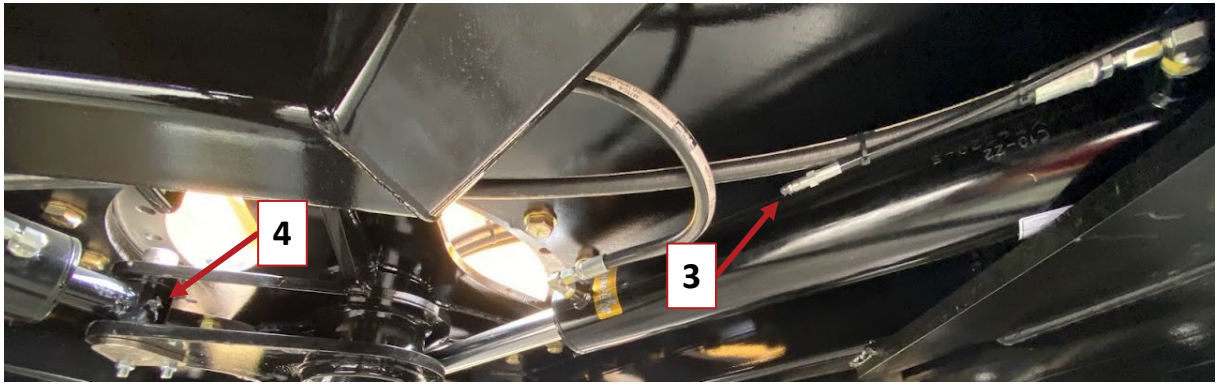





# MAINTENANCE – GREASE POINTS




*highlighted items are on both sides of the machine*

**GREASE ALL COMPONENTS BELOW EVERY 160 HOURS OR ONCE MONTHLY AND PRIOR TO LONG TERM STORAGE.**

Lubricate all fittings with a good quality lithium soap compatible E.P. grease meeting the NLGI #2 specifications and containing no more than 1% molybdenum disulfide

1. Pillow Block Bearing (a), (b)
2. Inner Slew ring (a), (b)
3. Cylinder base end (a), (b)
4. Cylinder rod end (a), (b)
5. Wheel Hubs (a), (b), (c), (d)

# MAINTENANCE – WHEEL HUBS, BRAKES AND SHACKLES

## HUB MAINTENANCE:

- After 1,000 hours of service, verify the hub, while unloaded, can rotate freely without making a knocking noise
  - Verify there is minimal end play on the hub
  - Replace the bearings, seal, and gasket or replace the hub if either of these checks fail

## BRAKE MAINTENANCE (if equipped):

- Brake fluid reservoir is on the tongue of the reel. Check brake fluid level before moving trailer.
  - Use DOT 3 brake fluid from a sealed container
- Brake system uses rotors and pads. Inspect brake pads regularly for wear and replace as needed

## WHEEL FASTENER INSTRUCTIONS:

- Wheel fasteners should be torqued to 420 ft-lbs before first use and after each wheel removal
  - Start all bolts or nuts by hand to prevent cross threading
  - Use the star pattern when tightening the lug nuts
- Re-torque all wheel fasteners after the first 50 miles of use and again after 100 miles
- After the first 100 miles of use, wheel fasteners should be checked and re-torqued every 3 months or 3,000 miles

## SHACKLE MAINTENANCE:

- After the first 1,000 miles re-check the trailer alignment and correct, if required
- Check the suspension prior to every trip to make sure it is operational
- Inspect all decals to ensure they are legible and intact
  - Clean with a terry cloth towel, soap, and water
- Perform visual inspection and appropriate maintenance of suspension every six months or 25,000 miles
- All fasteners, especially U-bolts, should be regularly inspected and retorqued to the proper specifications



**⚠ WARNING**

SAFETY ALERT! (1) FOLLOW ALL TORQUE REQUIREMENTS. (2) DO NOT USE ANY COMPONENT WITH VISIBLY WORN OR DAMAGED THREADS. FAILURE TO FOLLOW THESE SAFETY ALERTS CAN LEAD TO LOSS OF VEHICLE CONTROL, PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH.

**Hutchens Suspension Torque Requirements**
**9600-9700 Series ( Decal Part Number 16086-01 Rev. J )**

After an initial break in period, approximately 1000 miles, and at least every 4 months periodically thereafter, ALL bolts and nuts should be checked to insure that recommended torque values are being maintained.

Oiled torque values listed are for new fasteners with lubricated threads. It is recommended that new installations be performed with oiled fasteners. For dry threads which have been in service, use the higher torque values which are noted below.

| | OILED | DRY |
|---|---|---|
| 1 1/8-7 ( 9600 / 9700 Rocker Bolt ) | 590 lb-ft | 790 lb-ft |
| 1-14 or 1-8 ( 9700 Radius Rod Bolt ) | 540 lb-ft | 720 lb-ft |
| 7/8-14 ( Axle U-Bolts & 9600 Radius Rod Bolt ) | 350 lb-ft | 470 lb-ft |
| 3/4-16 ( Axle U-Bolts ) | 310 lb-ft | 420 lb-ft |
| 5/8-18 ( Radius Rod Clamp Bolt ) | 130 lb-ft | 170 lb-ft |
| 5/8-18 ( Spring Retainer Bolt ) | 35 lb-ft | 50 lb-ft |

HUTCH Hutchens Industries

Hutchens Industries, Inc., P.O. Box 1427, Springfield, Missouri 65801-1427 Toll Free 1 (800) 654-8824

Hutchens Shackles Torque Specs

# MAINTENANCE – TIRES

## 700 FLOTATION TIRES

- 700/50-22.5
- Maximum speed 40 MPH
- Inflation pressure – 41 psi




## WARNING

- Regularly inspect tires for wear, checking, and tire pressure
- Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires

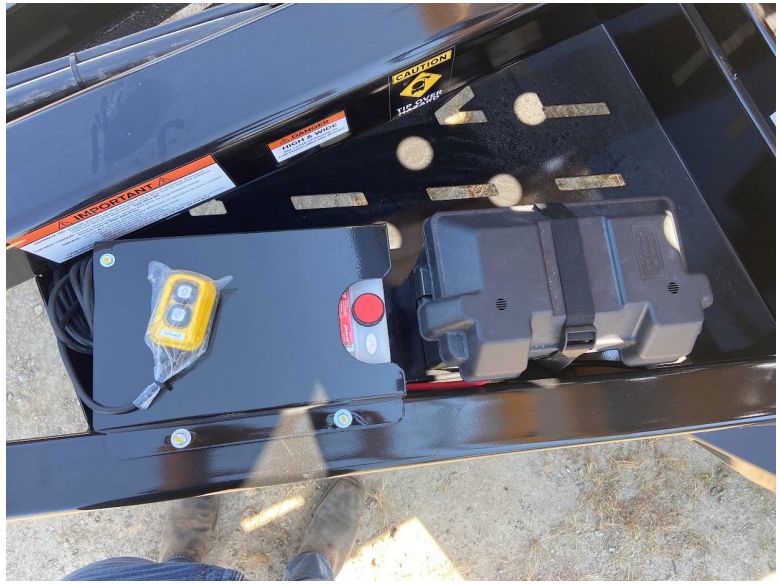
# HYDRAULIC JACK OPTION

**PRE-OPERATION:**

- Hydraulic jack is operated by a 12v electric hydraulic pump
  - Battery will need to be charged between operating seasons
- Make sure hydraulic reservoir is properly filled before operating.
  - Low and full oil level marking are located on the tank underneath the cover.
  - Use Tractor Hydraulic Fluid in the reservoir
- Hydraulic jack has 18” of stroke. Raise or lower hydraulic jack to allow for adequate travel clearance and ability to store hose reel level.

**DURING OPERATION:**

- To operate jack press and hold buttons on the yellow remote.
- **<u>Do not continue to hold button when jack is fully elongated or retracted.</u>** Running the pump for long periods of time without the jack moving can cause damage to the pump









# OTHER NOTES

- Many purchased components installed on this machine have their own dedicated maintenance manual from the manufacturer, many of which can be found online. It is the owner's responsibly to ensure all manuals are reviewed and proper to operation of this equipment. Please contact Bazooka Farmstar if you haven't received a component manual and are unable to find one on the web.

# BAZOOKA FARMSTAR WARRANTY POLICY

This warranty document outlines the warranty coverage provided by Bazooka Farmstar and is subject to the following provisions.

## Customer Responsibility

It is the customer's responsibility to maintain the equipment in accordance with the instructions provided in the operations manual.

If an equipment failure occurs, the customer must cease operation immediately until proper repairs have been made. **Any damage resulting from continued operation after a failure may not be covered under warranty**.

## Limited Warranty Coverage

New manufactured equipment warranty begins the date the equipment is invoiced to the original purchaser, or from the date the equipment was first put into use.

Limited Warranty Coverage is only valid on registered equipment to the original owner.

We guarantee components manufactured at Bazooka Farmstar to be free of material defects or workmanship issues for 1 year and unlimited hours.

For purchased components, including hydraulics and electronics, full warranty is limited to **6 months** or **500 hours of operation on any finished goods with an engine**, whichever occurs first.

Our dealers do not have authority to access, evaluate, or administer warranty on behalf of Bazooka Farmstar.

We do not guarantee our products to meet local municipal, state, or national laws or regulations.

## Transportation of Equipment

In the event of warranty coverage, Bazooka Farmstar may cover the transportation costs of disabled equipment at our discretion. We limit transport to the distance of the nearest authorized dealer, up to a maximum of **200 miles**.

Any arrangement for transport must be pre-approved by Bazooka Farmstar.

# BAZOOKA FARMSTAR WARRANTY POLICY

## Exclusions

This warranty does not cover damage caused by improper use, maintenance neglect, or modifications made to the equipment.

Certain components may be covered by their original manufacturer's warranty, which may differ from Bazooka Farmstar's warranty. This includes engines which are exclusively covered by manufacturer's warranty.

Any use of aftermarket or replacement parts not purchased through, manufactured by, or approved by Bazooka Farmstar will void warranty.

## Submitting a Claim

If a defect is suspected, a dealer must submit a warranty claim along with necessary documentation. Bazooka Farmstar reserves the right to inspect the equipment to determine the cause of the defect and the required labor hours before repairs are performed.

If your Account Manager informs you that parts need to be returned as part of your warranty evaluation, a Return Material Authorization (RMA)** will be sent to you and you will have 30 days to return the items.

Upon receipt of the failed replacement parts, a warranty evaluation will be performed to determine a disposition. If approved, a credit will be issued in full.

Bazooka Farmstar will send your approval or denial via email for your records.

** We understand that evaluation, especially when involving a third party, may extend past 60 days. However, if the claim is in process and the items were returned by the expected return date on the RMA, no finance charges will be assessed.*

**This change is only applicable to warranty orders that require parts to be shipped when warranty coverage is not clearly approved, or the problem is not easily identified. Manufactured products containing material defects or workmanship issues, or instances where Bazooka Farmstar is undeniably at fault for the problem, will continue to be processed with no additional charges.*

***Issuance of an RMA does not guarantee credit or approval of warranty coverage.*