



## Installation Manual

### Hydraulic Wheel Drive & Lift Kit



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## Introduction

Thank you for purchasing a hydraulic drive kit. Every effort has been made to provide you with a reliable product, specifically designed to complement and improve your farming operation.

Please read this manual thoroughly prior to installation. The information included in this manual is crucial for the proper installation of the hydraulic drive components.

All information in this publication is based on the latest product information available at the time of printing. Grainline is continually improving the design and performance of their products. They reserve the right to make any changes at any time without notice and without incurring any obligation. No part of this publication may be reproduced without written permission.

## Disclaimer

Grainline, their employees, distributors, and agents cannot be held responsible for any faulty hydraulic parts, installation, connections or any other part used in the installation of the hydraulic drive kit. Full responsibility rests solely and completely on the installer for the correct and legal installation thereof. Intended use of the hydraulic kit is to assist with the movement of a Grainline transportable auger. Use in any other way is considered as contrary to the intended use and is not covered by warranty.

## 1. Safety Information

The owner is responsible for the safe operation and maintenance of this equipment. Please note that information of special importance has been highlighted in this manual using the below signal words.

### 1.1 Hazard Labels

#### **DANGER**

Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.

#### **WARNING**

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

#### **CAUTION**

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

#### **NOTICE**

Indicates a potentially hazardous situation that, if not avoided, may result in property damage

### 1.2 General Safety

Manufacturers and installers all have responsibilities with regards to safety. Be aware of your responsibilities and carry them out. The owner or designated officer is responsible for the safe operation and maintenance of this equipment. The most important part of safe operation is a safety conscious operator who always remembers to:

- Keep children away from grain auger work area.
- Be aware of overhead electrical lines. Electrocutation can occur without direct contact.
- Do not operate grain auger with any safety shield, cover or guard removed.
- Keep body, hair, and clothing away from all moving parts.
- Replace, repair, tighten and clean out any parts or areas that need attention.
- Keep well away from grain auger intake during operation.
- Petrol engines to be operated in an adequately ventilated area.

## 2. Installation

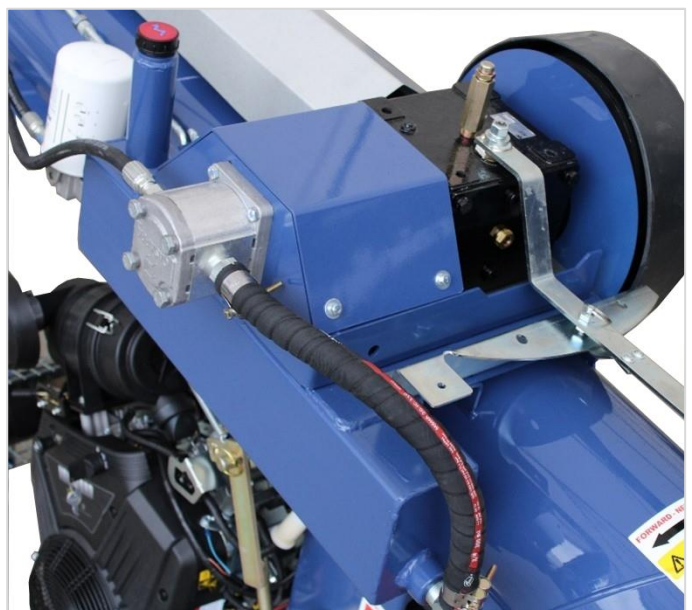
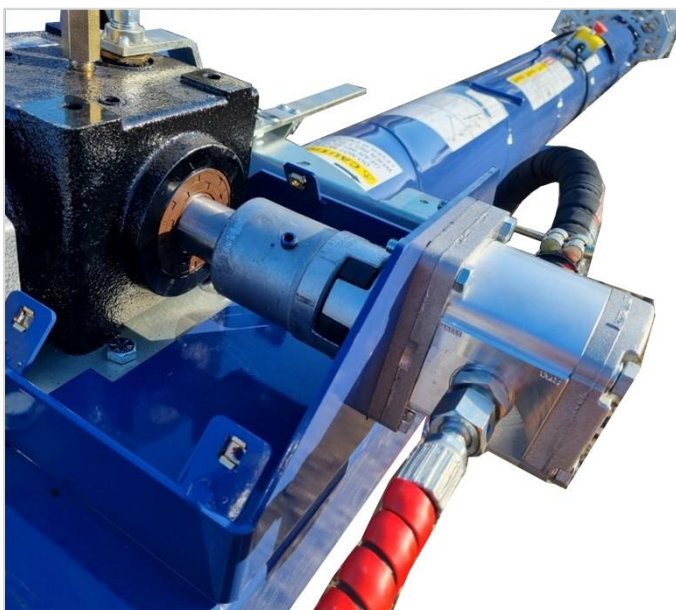
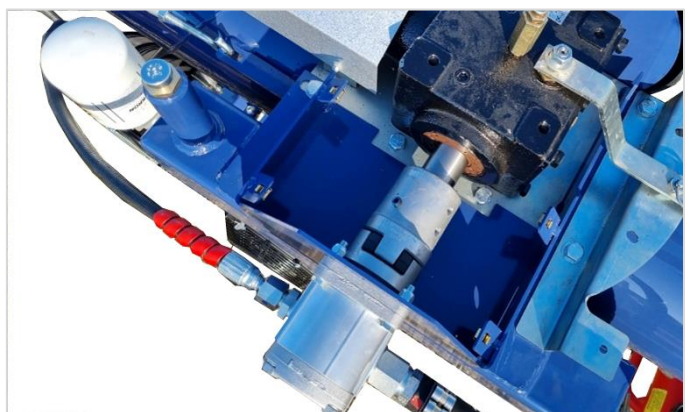
Safe operating procedure:

1. Installation only to be done by competent persons.
2. Wear appropriate personal protective equipment.
3. Use correct tools.

**WARNING:** Hydraulic systems work under high pressure and all work should only be undertaken by trained and competent people. Never loosen or undo any hydraulic hose or fitting while pump, motor or rams are operating or under load. Failure to do so can result in serious injury or death.

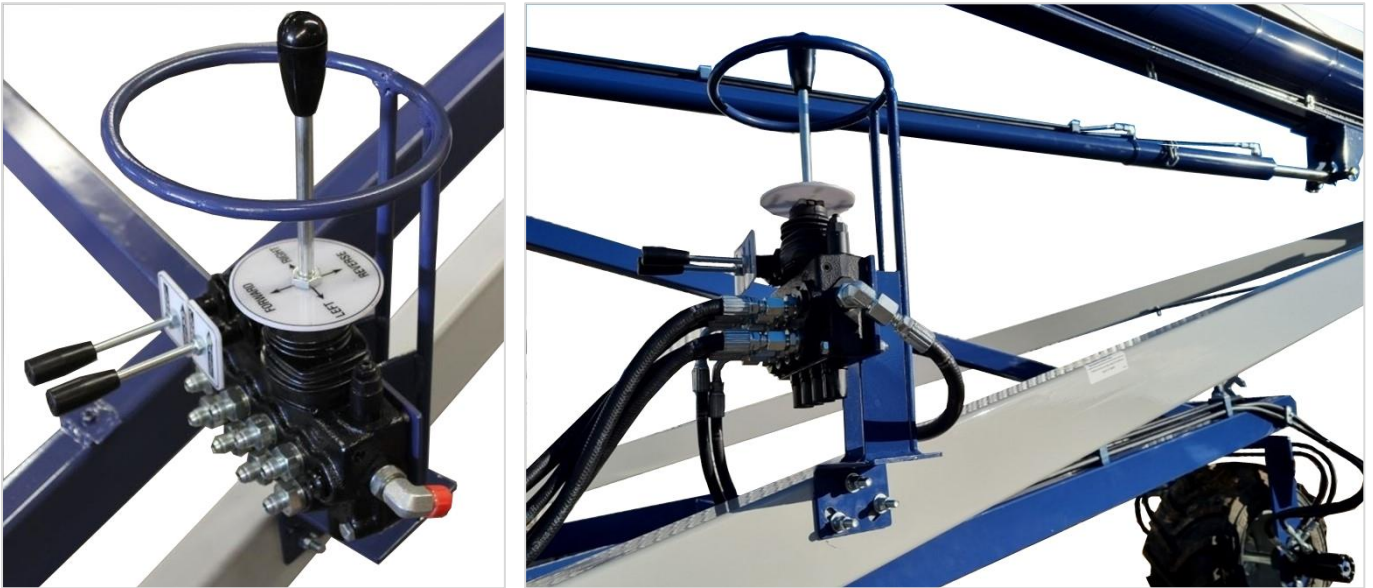
### 2.1 Oil Tank & Pump Assembly

1. Remove safety cover on unused gearbox shaft and clean any rust or paint from shaft.
2. Place key in keyway then slide larger half of pump coupling onto shaft. (Do not tighten grub screws).
3. Remove 3 bolts on gearbox mounting plate and install oil tank assembly as shown below. (Do not tighten bolts fully).
4. Join coupling ensuring rubber spider is inserted in centre. Ensure tank and pump coupling are aligned then tighten 3 mounting plate bolts, grub screws on pump coupling and 4 pump bolts. Secure pump coupling cover using 4 x M6 bolts.



## 2.2 Valve bank assembly

1. Take valve bank assembly and drill 3 x 10mm holes to mount assembly 1800mm up from axle on left hand undercarriage arm. Secure valve bank assembly as shown below using 3 x 3/8" x 3" bolts and nyloc nuts.



## 2.3 Hydraulic wheel & fork assembly

1. Remove existing third wheel and fork assembly.
2. Install new hydraulic wheel assembly as shown below and secure to 'A' frame using supplied 1 inch nyloc nut & washers. Note: do not fully tighten nut as this will prevent the fork from turning freely.



3. Connect steering ram to wheel fork assembly and fit bracket to opposite end as shown below.
4. Ensure hydraulic ram is extended fully out as shown then rotate fork assembly, leaving a space of 20mm between the ram and fork as shown below. Once in position clamp bracket to 'A' frame, drill 4 x 10mm holes then bolt bracket to 'A' frame using the 3/8" x 3 inch bolts supplied



## 2.4 Hydraulic Winch Assembly

1. Disconnect winch cable from existing winch then unbolt and remove winch.
2. Measure bolt pattern on new winch and drill 4 x 13mm holes in angle 300mm behind reduction pulley.
3. Bolt winch to auger as shown below and check all bolts are tight. Connect the cable and secure with 2 x cable clamps.



## 2.5 Third wheel Lift Ram

1. Remove old third wheel winch assembly, cable and pulley assemblies from auger.
2. Locate reinforcing plate below barrel and bolt left and right hand ram mounting brackets to barrel as shown below.



3. Using the supplied 1 inch pin, secure the bottom of the ram to the auger V post as shown below. Once secure rest the ram on the support brace as all hydraulic plumbing will need to be connected prior to fitting ram to brackets.



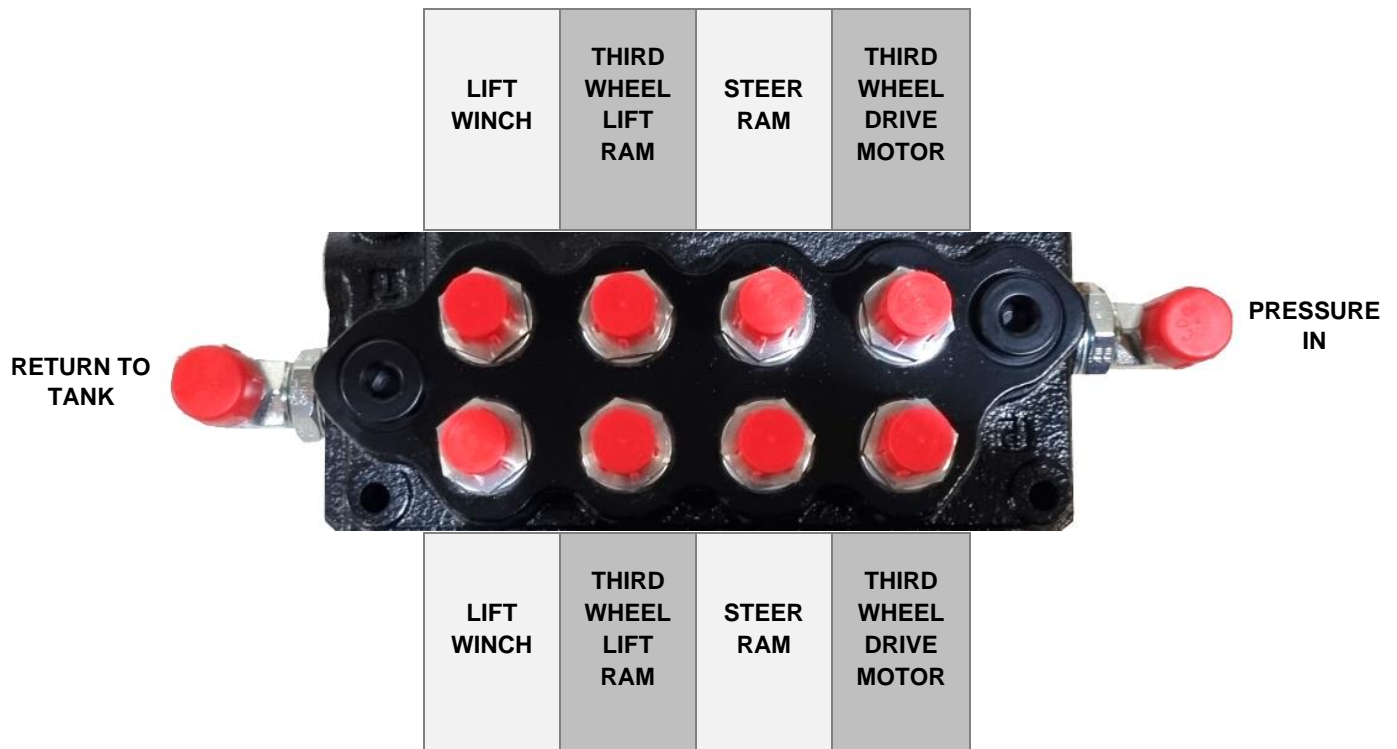
## 2.7 Standing Platform

1. Bolt standing platform to A frame using supplied bolts and nyloc nuts. Ensure backing plate is fitted as shown below.



## 2.7 Plumbing

1. Connect all hoses and ensure all are tight and fastened correctly. See diagram below for hose connection locations.



2. Fill Hydraulic reservoir with 10.5 litres of ISO 68 hydraulic oil then insert breather into reservoir and fasten.
3. Start auger engine, ensure gearbox is in neutral and engage belt lever to activate hydraulic pump. check for correct functionality. (Note: A delay in operation will occur as the oil flows through and fills hydraulic lines).
4. The hydraulic system should now be fully functional.
5. Using the hydraulic lever for the third wheel lift ram, extend the ram until it is possible to pin it into position on the brackets.
6. If there are any concerns or questions please contact Grainline on **1800 810 498**



Notes:



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