

# HUSKY<sup>®</sup>



**HOSE REEL**

***OPERATOR'S MANUAL***

## **GUARANTEE**

All Husky Farm Equipment manufactured by Husky Farm Equipment Limited is guaranteed. Guarantee covers all the replacement cost or repair of all parts said to be defective from manufacture. Guarantee also covers labour installing said parts, if installed at Husky's Manufacturing plant. Time and use is the essence of the guarantee. If equipment is used on a private property for an individual's use, guarantee will be in effect for twelve months from date of invoice. If equipment is used for commercial use to do custom work for money then guarantee will be in effect for three months only from date of invoice.

## **EXEMPTIONS FROM GUARANTEE**

Cost of transportation of equipment to or from Husky Farm Equipment Limited either by customer or by Husky's service staff or cost of mail or of public transportation is not covered. Tires and electric or hydraulic motors are covered by manufacturer's warranty and although Husky may assist to get warranty, Husky will not be responsible other than that allowed by manufacture's warranty. Items subject to normal wear from use is not covered by guarantee if faulty part is simply worn.

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# SERIAL NUMBER LOCATION

Always give your dealer the serial number of your Husky Liquid Manure Hose Reel when ordering parts or requesting service or other information.

The serial number plate(s) is located where indicated. Please mark the number in the space provided for easy reference.



# SERIAL NUMBER LOCATION

Model Type \_\_\_\_\_

Serial Number \_\_\_\_\_

Production Year \_\_\_\_\_

# 1 INTRODUCTION

Congratulations on your choice of a Husky Liquid Manure Drag Hose Reel to compliment your farming operation. This equipment has been designed and manufactured to meet the need of most discerning operators. The highest quality components are used throughout, and each step of Husky manufacturing is inspected under strict quality control.

Safe, efficient and trouble-free operation of your Husky Liquid Manure Drag Hose Reel requires that you and everyone else who will be operating or maintaining the machine read and understand all of the safety, operation, maintenance and trouble shooting information contained within this Operator's Manual.

Keep this manual handy for frequent reference and pass on to new operators or owners. Call your Husky Dealer if you need assistance, information or additional copies of the manuals.



## OPERATOR ORIENTATION

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

## 2 SAFETY

### SAFETY ALERT SYMBOL

This Safety Alert Symbol Means  
**ATTENTION! BECOME ALERT  
YOUR SAFETY IS INVOLVED**



The Safety Alert symbol identifies important safety messages on the Husky Liquid Manure Drag Hose Reel and in this manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Why is SAFETY important to you?

#### 3 Big Reasons

**Accidents Disable and Kill  
Accidents Cost  
Accidents Can Be Avoided**

#### SIGNAL WORDS:

Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines

**DANGER -** An immediate and specific hazard which **WILL** result in severe personal injury or death if the proper precautions are not taken.

**WARNING -** A specific hazard or unsafe practice which **COULD** result in severe personal injury or death if the proper precautions are not taken.

**CAUTION -** Unsafe practices which **COULD** result in personal injury if the proper practices are not taken, or as a reminder of good safety practices.

# SAFETY

**YOU** are responsible for the SAFE operation and maintenance of your Husky Liquid Manure Drag Hose Reel. **YOU** must ensure that you and anyone else who is going to operate, maintain or work around the Liquid Manure Drag Hose Reel be 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 adhered to while operating this equipment.

Remember, **YOU** are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

Drag Hose Reel owners must give operating instructions to operators or employees before allowing them to operate the Husky Liquid Manure Drag Hose Reel and at least annually thereafter per OSHA regulation 1928.57.

Husky Liquid Manure Drag Hose Reel owners must follow safety practices as recommended by the Agriculture Safety Associations across Canada .

The most important safety device on this equipment is a SAFE operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. All accidents can be avoided.

A person who has not read and does not understand all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes themselves and bystanders to possible serious injury or death.

Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.

**Think SAFETY! Work SAFELY!**

## 2.01 GENERAL SAFETY

1. Read and understand the Operator's Manual and safety signs before operating, maintaining or adjusting the Drag Hose Reel.



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



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



4. Install and properly secure all shields and guards before operating.

5. Do not allow riders on the machine or tractor.

6. Stop tractor engine, disengage PTO clutch, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.

7. Never enter manure storage facility without appropriate respiratory equipment and an independent oxygen supply.

8. Review safety related items with all operators annually.

## 2.02 OPERATING SAFETY

1. Read and understand the Operator's Manual and all safety signs before operating, servicing, adjusting or unplugging.
2. Do not allow riders on the Husky Liquid Manure Drag Hose Reel or the tractor during operation or transport.
3. Do not operate a PTO driven system unless the required shields are in place and secured.
4. Never wear loose fitting clothing, keep hands, feet, hair and clothing away from all moving and/or rotating parts, while working with machinery, use personal protective clothing and eye and ear protection as needed.
5. Stop tractor engine, disengage PTO clutch, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
6. Before applying hydraulic pressure to the system, make sure everyone is clear and that all connections are tight and all components are in good repair.
7. Never enter manure tank or manure storage facility without wearing appropriate breathing gear that carries an independent supply of oxygen.
8. Always use a tractor of sufficient size and weight to maintain vehicle stability during transport and during use.
9. Clean or install reflectors and SMV emblem before transporting and add extra lights for transporting during times of limited visibility.
10. Make sure parking brake on the tractor is set and block wheels so it cannot roll.
11. Review all safety instructions annually.

**Think SAFETY! Work SAFELY!**

## 2.03 MAINTENANCE SAFETY

1. Read and understand all the information contained in the Operator's Manual regarding maintenance, adjusting and operating Husky Liquid Manure Drag Hose Reel
2. Block the frame up securely and firmly if adjustments and maintenance to the Liquid Manure Drag Hose Reel are required.
3. Exercise extreme caution when working around or with high-pressure hydraulic systems. Depressurize the system when connecting or disconnecting the hose couplers.
4. Wear heavy gloves and eye protection when searching for suspected hydraulic leaks. A high- pressure concentrated stream of hydraulic fluid can pierce the skin. If such an event happens, seek immediate medical attention as infection and toxic reaction could develop.
5. Do not attempt any adjustment or maintenance to any system of the Husky Liquid Manure Drag Hose Reel when the implement is in motion.
6. Stop the engine, place all controls in neutral, remove the ignition key, set the park brake and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging any system or component.
7. Never enter tank or manure storage facility without wearing appropriate breathing gear that carries an independent supply of oxygen. The buddy system is also a recommended procedure.



## 2.04 HYDRAULIC SAFETY

1. Make sure that all components in the hydraulic system are kept in good condition and are clean.
2. Replace any worn, cut, abraded, flattened or crimped hoses and metal lines.
3. Do not attempt any makeshift repairs to the hydraulic lines, fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high-pressure; 1600 to 3000 pounds per square inch. Such repairs will fail suddenly and create a hazardous and unsafe condition.

4. Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to isolate and identify a leak.



5. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop from hydraulic fluid piercing the skin surface.
6. Before applying pressure to the system, make sure all components are tight and that lines, hoses and couplings are not damaged and kept in good repair.
7. Make sure all hydraulic hoses are not snagged on anything .

## 2.05 TRANSPORT SAFETY

1. Make sure you are in compliance with all local regulations regarding transporting agricultural equipment on public roads and highways. Consult your local law enforcement agency for further information.
2. Ensure that the SMV (Slow Moving Vehicle) emblem and all reflectors and lights required by the local highways and transport authorities are in place and are clean and visible by overtaking and oncoming traffic.
3. Ensure that the Husky Liquid Manure Drag Hose Reel is hitched positively and safely to the tractor 3-Point Hitch System, or drawbar (depending on model). Always use drawpin of sufficient size for load being towed, and appropriate safety chains.
4. Transport according to local regulations covering maximum width, weight and length.
5. Do not exceed speed limits. Reduce speed on rough roads and surfaces.
6. Always use a tractor of sufficient size and weight to maintain vehicle stability during transport.
7. Always use hazard warning flashers on tractor when transporting unless prohibited by law.

**Think SAFETY! Work SAFELY!**

## 2.06 MANURE STORAGE

### FACILITY SAFETY

1. Never enter tank or manure storage facility without wearing appropriate breathing gear that carries an independent supply of oxygen .
2. Keep others, especially children, out of these structures.
3. Use special care when opening storage facilities to prevent yourself or others from falling in.
4. Stored manure gives off hydrogen sulfide gas. One breath can kill. Keep away. Keep others away.



5. Do not enter storage facility without oxygen supplying equipment. The surface always crusts and looks solid. It is not. Stay away.
6. Always have a ladder in storage tank as a means of getting out should you inadvertently fall in.

## 2.07 STORAGE SAFETY

1. Store the Husky Liquid Manure Drag Hose Reel on a firm, level surface.
2. Store away from areas of human activity. Do not permit children to play on or around the stored Liquid Manure Drag Hose Reel.
3. Make sure the unit is sitting, or blocked up firmly and solid and will not tip or sink into a soft area.

## 2.08 SAFETY DECALS

1. Keep safety decals and signs clean and legible at all times.
2. Replace safety decals if destroyed, missing, painted over or unreadable.
3. If a section of the Drag Hose Reel is replaced that carries a safety decal, apply a new decal immediately.
4. Safety decals or signs are available from your Dealers Parts Department.

### HOW TO INSTALL SAFETY DECALS:

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Wash area with soapy water and install decal while still soapy, then it can be smoothed out easily.
- Place the sign in position and slowly peel back the remaining paper, smoothing the sign as it is applied.

## 2.09 SIGN-OFF FORM

Husky Farm Equipment follows the general standards specified by the American Society of Agriculture Engineers (ASAE), the Occupational Safety and Health Administration (OSHA) and safety practices as recommended by the Agriculture Safety Associations across Canada. Anyone who will be operating and/or maintaining the Husky Liquid Manure Drag Hose Reel must read and clearly understand ALL Safety, Operating and Maintenance information presented in this manual.

Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.

Make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. We feel that an untrained operator is unqualified to operate this machine.

A sign-off sheet 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 the Operator's Manual and have been instructed in the operation of the equipment.

### EMPLOYEE SIGN-OFF FORM

DATE	EMPLOYEES SIGNATURE	EMPLOYERS SIGNATURE

### 3 OPERATION

#### 3.01 TO THE NEW OPERATOR OR OWNER

Husky Farm Equipment's Liquid Manure Drag Hose Reels are designed to carry and transport soft drag line hose. Many of the features incorporated into this machine are the result of suggestions made by customers like you. Read this manual carefully to learn how to operate the machine safely and how to set it to provide maximum efficiency. The manual will take you step-by-step through your working day. By following the operating instructions in conjunction with a good maintenance program, your Husky Liquid Manure Drag Hose Reel will provide many years of trouble-free service.

#### General Information About the Husky Liquid Manure Drag Hose Reel

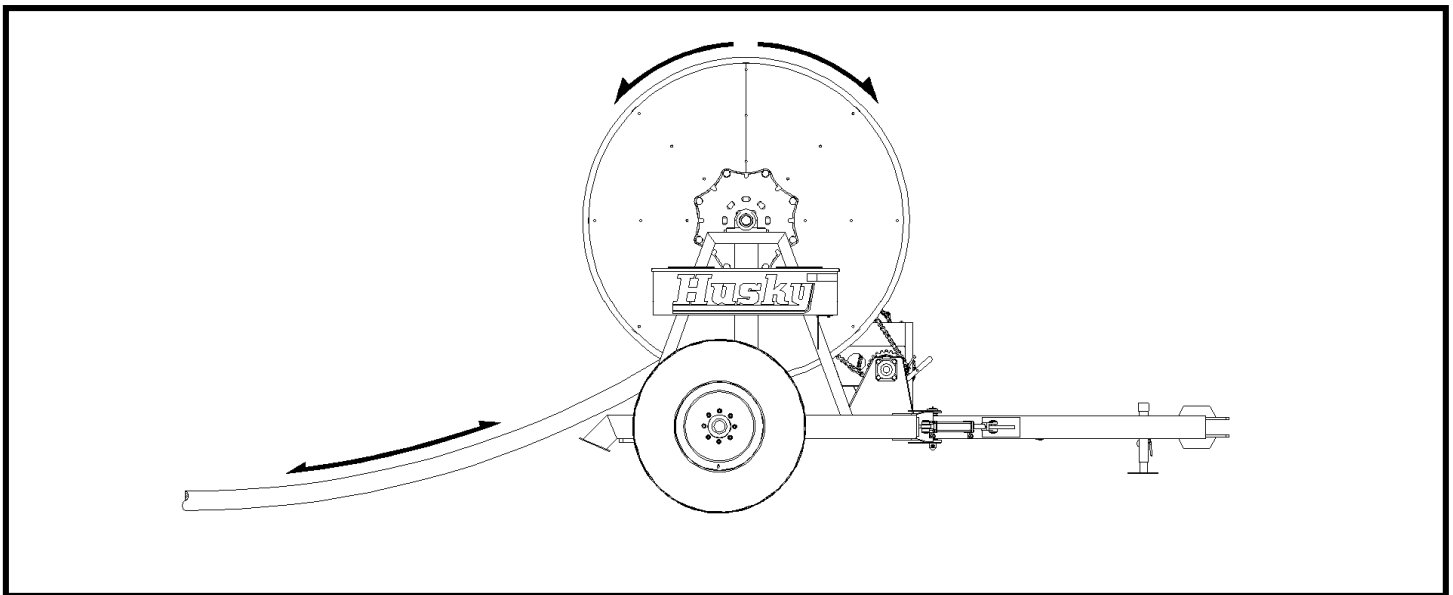
Husky Farm Equipment Limited designs and manufactures all of its products so they can be operated safely. However the responsibility for safe operation rests with those who use and maintain these products.

The Husky Liquid Manure Drag Hose Reel should be operated only by those who have been trained to do so, and who have read these operating instructions and operating manual.

Failure to follow the instructions, procedures and safety precautions in this manual may increase the possibility of an accident or injury.

#### 3.02 HOW THE MACHINE WORKS

The Husky Liquid Manure Drag Hose Reel is either a 3-Point Hitched mounted reel, or trailer; tow behind model. This Reel will transport the hose to and from the area that the manure will be spread. The large drum will rotate and 'wheel' up the hose onto the reel. The reel will also 'unwind' and lay the hose out onto the ground so it can be used in the drag line process.



**FIG. 1 PRINCIPLES OF OPERATION**

### 3.03 BREAK-IN FOR DRAG HOSE REEL

Although there are no operational restrictions on the Drag Hose Reel when it is new, there are some mechanical checks that must be done to insure long term integrity of the unit. When using the Drag Hose Reel for the first time, follow this procedure:

#### A. Before Using

1. Lubricate all grease points.
2. (3PT Hitch unit Only) Adjust lower 3-Point Hitch Plate Assembly to suit your specific tractor. Tighten U-Bolts! Do not operate until you have ensured that these bolts have been tightened. Drag Boom may be shipped from factory to customer with these bolts loose for easier customer setup. It is the customers responsibility to ensure they are adjusted properly for their tractor.

#### B. After 5 hours of use:

1. Check all hardware. Tighten as required.
2. Lubricate all grease points.

#### C. Then go to the service schedule as outlined in the maintenance schedule.

### 3.04 PRE-OPERATION CHECKLIST

Efficient and safe operation of the Husky Liquid Manure Drag Hose Reel requires that each operator reads and understands the operating procedures and all related safety precautions outlined in this section. A pre-operation checklist is provided for the operator. It is important for both personal safety and maintaining the good mechanical condition of the Drag Hose Reel that this checklist be followed.

1. Lubricate the machine per the schedule outlined in the "Maintenance Section".
2. Use only a tractor of adequate power and weight to operate the Drag Hose Reel while full loaded with hose.
3. Ensure that the machine is properly attached to the tractor using a pin and lynch system that is supplied when new.
4. Be sure that any lights, reflectors or SMV signs if installed are clean.
5. Ensure that all hoses are securely fastened, and free of any obstructing debris.

### 3.05 OPERATION OF DRAG HOSE REEL

#### A. Wind Up Hose

1. Place end of hose into drum on hose reel with tractor shut off, parking brake locked.
2. Start up tractor and slowly start winding up the hose. Never engage reel with Tractor at full throttle.
3. If trailer model reel with hydraulic cylinder on tongue: Use this cylinder to align reel so it is lined up with hose that is being wound up. If 3PT hitch model: Use tractor to align hose to reel, by driving forward or reverse until in line. Periodic re-alignment may be needed to wind up hose.
4. When getting near the end of the hose (ie almost all wound up) you **MUST SLOW DOWN** the speed of the reel. Failure to ensure that the reel is traveling at a slow speed can result in harm to yourself or damage to your equipment if the hose end were to fly up and over the reel and hit the cab.
5. If using an Open Reel with a hydraulically operated arm, move the arm back and forth during windup to even lay hose onto Reel.

#### B. Unwind Hose

1. **Models equipped with brake mechanism (FIG. 2):** This brake mechanism is designed to help regulate the speed during unwinding the hose. To operate ensure that machine is shutoff, parking brake is engaged. Exit tractor and ensure that the brake lever is engaged. Next pull pin that is located under the safety cover (FIG. 3), this will allow the reel to freewheel. Ensure brake has enough tension on, if not tighten until reel rotates at a manageable speed. **Models with direct drive:** No brake is equipped with this model and the speed you can unwind is determined by the hydraulic speed of the motor.
2. Using tractor drive ahead slowly unwinding hose.
3. When nearing the end of the hose, slow down so that hose end coupling will drop out of the reel. If the reel is rotating too fast the coupling will not drop out and will start to wind up the hose in the reverse direction.



FIG. 2



FIG. 3

## **3.06 CLEAN-UP**

At the end of the job of spreading manure with the Drag Hose Reel, follow this procedure to clean the machine:

1. Wash off thoroughly with pressure washer

## **3.07 STORAGE**

### **3.07.1 PLACING IN STORAGE**

After the seasons use, inspect all systems of the Husky Liquid Manure Drag Hose Reel. Repair or replace any worn or damaged components to prevent any down time at the beginning of the next season. Since the machine works with manure, it is necessary to thoroughly wash the unit to prevent manure acids from working on the components while in storage. All manure, debris, and residue should be removed. It is good practice to have a small canister sprayer and to spray light oil on the Drag Hose Reel both before and after each use.


1. Inspect all hydraulic hoses, lines, couplers and fittings. Tighten any loose fittings. Replace any hose that is badly cut, nicked, abraded or is separating from the crimped end of the fitting.
2. Lubricate all grease fittings (see Maintenance Section). Make sure that all grease cavities have been filled with grease to remove any water residue from the washing.
3. When placing in storage make sure reel is resting on firm ground that will not sink or settle.
6. Touch up all paint nicks and scratches to prevent rusting.

### **3.07.2 REMOVING FROM STORAGE**

Before starting to use the machine, the customer should do a thorough inspection and servicing. Follow this procedure:

1. Lubricate all grease fittings to remove any condensation that accumulated during the storage period.
2. Inspect all hoses for leaks, cracks.
3. Inspect Tire pressure, Wheel lug nuts.

## 4 SERVICE AND MAINTENANCE

**MAINTENANCE  
SAFETY**

1. **Stop tractor engine, place all controls in neutral, set park brake, remove ignition key and wait for all moving parts to stop before servicing, repairing, adjusting or unplugging.**
2. **Be careful when working around a high-pressure hydraulic system. Wear the proper eye and hand protection when searching for leaks. Use a piece of wood or cardboard as a backdrop when searching for leaks.**
3. **Seek immediate medical attention if hydraulic fluid pierces the skin as toxic reaction and infection could develop.**
4. **Keep hands, feet, hair and clothing away from all moving or rotating parts.**
5. **Make sure that all shields and guards are in place before operating.**
6. **Clear the area of bystanders, especially children, when carrying out any maintenance or making adjustments.**
7. **Always securely support the frame with stands or large blocks when removing a tire or working under the machine.**
8. **Never enter a tank without wearing appropriate breathing equipment that carries an independent supply of oxygen. Keeps others out of tank.**

### 4.01 MAINTENANCE

The efficient and safe operation of your Husky Liquid Manure Drag Hose Reel will depend a great deal on your diligence in following the maintenance and adjustment procedures outlined in this section. If you follow these recommendations, your Husky Liquid Manure Drag Hose Reel should work to its maximum potential.

### 4.02 SERVICING INTERVALS

#### 8 HOURS OR DAILY

1. Check Tire pressure and wheel bolt torque
2. If operating in very dusty environment it is recommended that greasing be done daily on main bearings.

#### ANNUALLY

1. Inspect all hoses, replace/repair if needed.
2. Inspect all wheel bearings and seals and replace if needed.
3. Grease ALL lubrication points on machine.
4. Check all hardware, bolt and nuts and tighten if required.

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## 6 PARTS BOOK

The Parts Book with a list of all the parts on your Drag Hose Reel is enclosed with this manual at the time you purchase the equipment new<sup>1</sup>.

Contact your local dealer or the factory if you need a copy of the parts book or you need a new copy of this operator's manual.

At the time of printing there is no charge for these books to an owner of Husky Liquid Manure Equipment.

1. Husky does not guarantee that a parts book will be available at time of purchase for the specific equipment you have purchased.



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