

83371 Melton Rd, Creswell OR 97426

RUGGED LABOR SAVING EQUIPMENT SINCE 1995

Specifications subject to change without notice!

Please Note

Make sure all potential operators of this equipment review this manual and all safety messages contained within.



This safety symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.

CAUTION; It is the Owner/Operators responsibility to ensure that the tractor three point top link, tractor frame, & hydraulic lift cover area is strong enough to accept three point rigid connection and backhoe force while operation as extra forces are exerted through 3-PT hitch system. NO liability can be accepted for damage to tractor.

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1. SAFETY PRECAUTIONS

SAFETY

Understand that your safety and the safety of other persons is measured by how you service and operate this Backhoe. Know the position and operations of all controls before you or anyone else operate the equipment.

Make sure you check all controls in all safe area before starting.

Read this manual completely and thoroughly and make sure you understand all controls. All equipment has a limit. Make sure you are aware of the stability and load characteristics of this Backhoe before you begin operation.

The safety information given in this manual does not replace any safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment required by your local laws and regulations.



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.

SAFETY PRECAUTIONS

Before starting the engine of your tractor, make sure all operation controls are in park lock or neutral Position.

Operate controls only when seated in the operator's seat.

Equip your tractor with a ROPS cab or frame for your protection. See your tractor operator's manual for correct Seat belt usage.

A frequent cause of personal injury or death is persons falling off and being run over. Do not permit others to ride on your tractor. Only one person, the operator, should be on the machine when it is in Operation.

Before leaving the tractor, stop the engine, put all controls in neutral, engage the parking brake and remove the key from the ignition.

When using remote hydraulic tractor valves on some tractors, the Backhoe's cylinders will continue moving unless the control levers are manually returned to neutral, or until relief pressure is reached at the ends of piston strokes. Observe the bucket movement and maintain control with the control levers.

Stop the backhoe arms gradually when lowering or lifting loads. Stay off of slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling". Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating operation near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick or muddy surfaces.

Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. Escaping hydraulic oil or diesel fuel leaking under pressure can have sufficient force to penetrate the skin and cause infection or other injured by leaking fluid, seek medical attention immediately.

To prevent personal injury, relieve all pressure before disconnecting fluid lines.

Before applying hydraulic pressure, make sure all hydraulic connections are tight and components are in good condition.

Contact with overhead power lines can cause severe electrical burn or death from electrocution. Make sure there is enough clearance between raised equipment and overhead power lines.

Add recommended rear tire liquid weight or rear wheel weights for increased stability.

A backhoe attachment should be transported in a low position at slow ground speeds. Make turns slowly and use the tractor brakes cautiously. A loaded attachment in the raised position alters the center of gravity location of the machine and increases the possibility of mishaps.

Do not stand, walk or work under a raised backhoe or attachment unless it is securely blocked or held in position. Accidental movement of a control lever or leak in the hydraulic system could cause the backhoe to drop, or attachment to dump, causing severe injury.

Make sure all parked backhoes on stands are on a hard level surface with all safety devices engaged to prevent backhoe from falling and being damaged or injuring someone.

When using a backhoe, be alert of bucket, boom and arm position at all times.

2. SAFETY DECALS

Safety Decal Locations

Important: Warning decals are visible when getting on backhoe, refer to the left and right hands used in this manual, It's the position of the operator when seated in the operating position of backhoe.

Care of Safety Decals.

- 1. Keep safety decals clean and free of obstructing material.
- 2. Clean safety decals with soap and water and dry with a soft cloth.
- 3. Replace damaged or missing safety decals with new decals from your FHM Dealer.

dealer.

parts.

Enter

Operate

4. If a component with a safety decal(s) affixed is replaced with a new part, make sure new safety decal(s) are attached in the same location(s) as the replaced components.

5. Mount new safety decals by applying on a clean dry surface and pressing air bubbles to outside edges.

🛕 WARNING

TO PREVENT BODILY INJURY

- 1. Swing lock pin must be in center locked position when detaching backhoe from tractor.
- 2.When attaching or detaching backhoe to/from tractor always stand on the tractor side of the stabilizer and outside of rear wheel.
- 3.Never operate unless backhoe manufacturer's mounting kit has been installed as instructed in operators manual.
- 4.Do not modify or substitute any parts of backhoe mounting kit.

Keep all guards in place.

backhoe

TO PREVENT BODILY INJURY

Read operator's manual before
When operating backhoe, keep using backhoe. Follow all safety precautions.

Inspect backhoe daily for

Before transporting, attach

slow moving behicle sign and

engage boom and swing locks.

A minimum 25% of tractor and

equipment weight must be on

tractor front wheels with

backhoe in transport position.

Avoid digging in area of

from

stabilizers and tires.

base for stabilizers.

operators seat only.

and exit operators

- others away from stabilizers and maximum bucket swing areas. Replacement manuals are
 - avallable from your local

 Keep others off backhoe and tractor while operating backhoe.
 - loosened, bent or broken

 Consult local utilities before digging. Know location of underground cabies and pipelines. Watch for overhead hazards.
 - Do not repair or service backhoe unless it is mounted tractor and securely on supported. Loss of oil or removal of parts could cause backhoe to collapse.
 - platform only from between Do not use this unir for lifting. conveying or providing a work platform for personnel.
 - stabilizer pads to keep solid . leaving equipment Before unattended. raise boom and install transport locks. Fold in dipperstick and bucket.Shut off engine and remove key.

Location : Mainframe



Location : Both Leg Cylinders

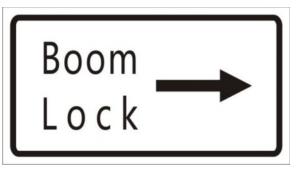
Farmer-Helper BH 8 & 9

Location : Both of Mainframe sides



Location : Both side of Mainframe

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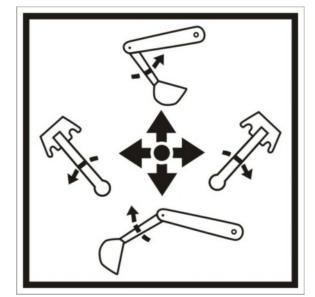
Location : Beside of the locking hole at the Boom Mainframe



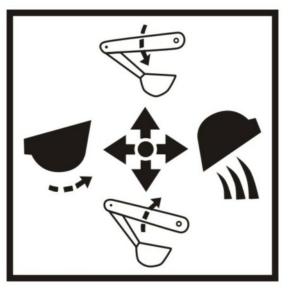
Location : Main Valve Cover



Location : Right Leg Guard

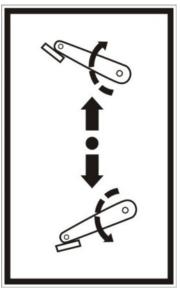


Location : Left side Valve Lever

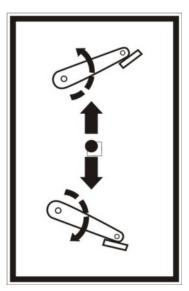


Location : Right side Valve Lever

Farmer-Helper BH 8 & 9



Location : Side of Left Inner Lever

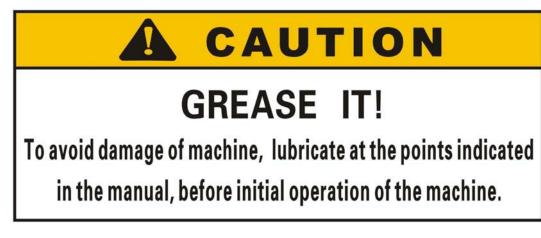


Location : Side of Right Inner Lever

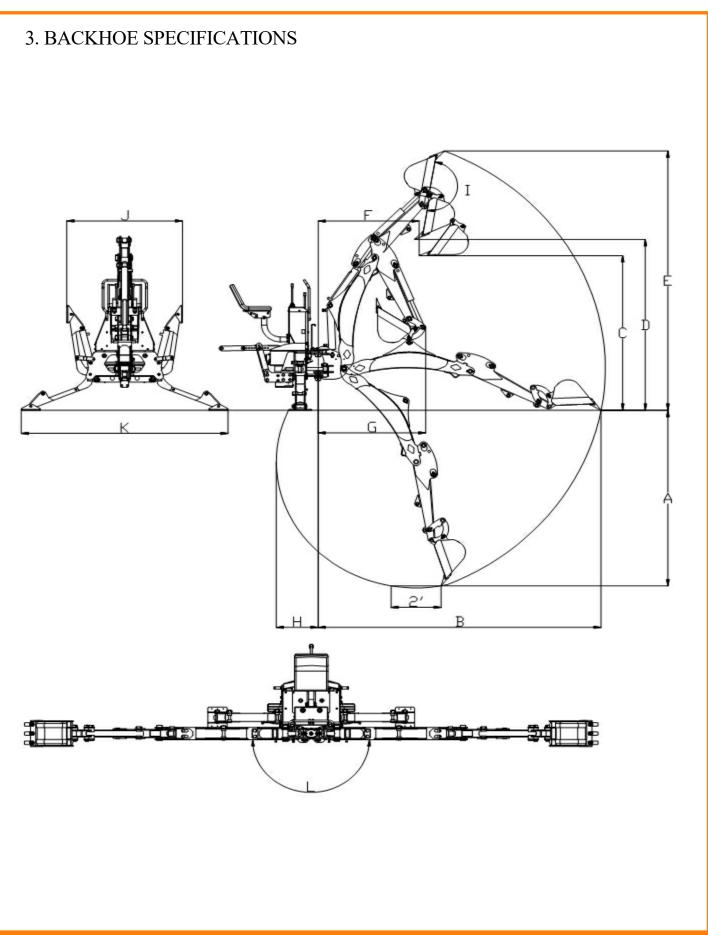




Location : Both side of Dipperstick



Location : Main Valve cover



FH SELF CONTAINED 3-PO	ІНТ ВАСКНС	ЭЕ
Farmer-Helper Series Backhoe	BH8	BH9
Recommended Tractor 3-point lift at end	1575 lbs+	1700 lbs+
3-point Linkage	Cat-I or Cat-II	Cat-I or Cat-II
Digging Depth (2 foot Flat bottom trench)	89.7"	102"
Reach (From center of Swing Pivot)	126"	142"
Loading Height (Bucket at 60 degrees)	72.4"	80.3"
Transport Height (Maximum)	83.5"	92.9"
Transport Overhang	49"	50.4"
Bucket Rotation	180°	180°
Stabilizer Spread (Down Position)	68.7"	68.7"
Stabilizer Spread (Up Position)	46.4"	46.4"
Dipperstick Digging Force	2,105 lbs.	2,205 lbs.
Bucket Digging Force	2,818 lbs.	3,418 lbs.
Swing Arc	180°	180°
Operating Pressure	2,466 psi	2,466 psi
Shipping Weight	1450 lbs	1540 lbs
Net Weight (16" Bucket)	1360 lbs	1450 lbs

Calindan	Bore D	iameter	Retracte	ed Length	Str	oke	Rod Diameter		
Cylinder	mm	inch	mm	inch	mm	inch	mm	inch	
Boom	70	2.75"	620	24.41"	385	15.16"	40	1.57"	
Bucket	60	2.36"	535	21.06"	300	11.81"	35	1.38"	
Dipperstick	60	2.36"	597	23.5"	378	14.88"	35	1.38"	
Swing	60	2.36"	403	15.87"	212	8.35"	35	1.38"	
Stabilizer	60	2.36"	446	17.56"	262	10.31"	35	1.38"	

BH9

BH8

Culindar	Bore D	iameter	Retracte	ed Length	Str	oke	Rod Diameter		
Cylinder	mm	inch	mm	inch	mm	inch	mm	inch	
Boom	70	2.75"	717	28.23"	385	15.16"	40	1.57"	
Bucket	60	2.36"	620	24.41"	300	11.81"	35	1.38"	
Dipperstick	60	2.36"	654	25.75"	472	18.58"	35	1.38"	
Swing	60	2.36"	403	15.87"	212	8.35"	35	1.38"	
Stabilizer	60	2.36"	446	17.56"	262	10.31"	35	1.38"	

Bucket	Teeth Qty.
12" Bucket	3
14" Bucket	3
16" Bucket	4
18" Bucket	4
20" Bucket	5

Specifications may vary depending on tractor model, tire size and bucket used.

4. INTRODUCTION

The purpose of this manual is to assist you in maintaining and operating your BH8/BH9 backhoe. Read it carefully, it furnishes information and instructions that will help you achieve years of dependable performance. Some information may be general in nature due to unknown and varying conditions. However, through experience and these instructions, you should be able to develop operating procedures suitable to your particular situation.

"Right" and "Left" as used throughout this manual are determined by facing the direction the machine will travel when in use.

The photos, illustrations and data used in this manual are current at the time of printing, but due to possible in-line production changes, your machine may vary slightly in detail. The manufacturer reserves the right to redesign the machine as may be necessary without notification.

Important:

Illustrations used in this manual may not show all safety equipment that is recommended to ensure safe operation of tractor and backhoe. Refer to the Safety Precautions section of this manual for information concerning safety. consult your dealer for further information.

Warranty Registration

The Delivery and Warranty Registration forms must be filled out and signed to validate your warranty protection. The items on the form under "I hereby Acknowledge" should be read and understood. The terms and conditions of the warranty on this machine are specified in the front of this manual.

Serial Number and Location

The serial number is important information about the machine and it may be necessary to know it before obtaining the correct replacement part. The serial number is located on the right side of backhoe mainframe. The serial number should be recorded on the Delivery and Registration form and also below for your reference.

Farmer -	- Helper	
Model		
Serial No:		
Date MFD		

5. TRACTOR PREPARATION

Rear Counterweight



Do not exceed the manufacturer's rating for maximum gross vehicle weight. Refer to Operator's Manual or ROPS serial plate provided with tractor.

Certain specific conditions may not permit safe use of backhoe at backhoe rating or may require more careful restricted operation at the rated load.

ROPS System

The tractor must be equipped with an approved ROPS System to ensure adequate operator's protection.

Tractor Hydraulic System

Tractor operation in a backhoe application significantly increase demands on the tractor Hydraulic System. Check the tractor Hydraulic system fluid level daily. Refer to your tractor Operator's Manual maintenance section for instructions regarding tractor hydraulic system maintenance.

Adhere to recommendation in your Tractor Operator's Manual concerning hydraulic fluid and filter specifications, and change intervals.



Tire Inflation

Front tires must be maintained at the maximum recommend-ed inflation to maintain normal tire profile with the added weight of backhoe/material.

Rear tires must be maintained at equal pressure within the recommended tire inflation range. Unequal rear tire inflation can prevent backhoe attachment from contacting the ground across its full width.

Wheel Tread Settings

Tractor front wheel tread setting must be restricted to wheel tread spacing recommended in the tractor Operator's Manual.

5.1 PT O CONNECTION

Ensure PTO shaft is correct length, correct PTO shaft length must have a minimal overlap of 2" in drive position. See PTO Driveline manual for proper steps to reduce overall PTO driveline length. Connect PTO shaft to tractor, PTO output shaft and backhoe hydraulic pump shaft. Check PTO shaft has suitable angle prior to operation. Angle of PTO shaft universal must be less than 25 degrees, to prevent major damage.

CAUTION: Backhoe should be mounted to the tractor three point linkage.

CAUTION: Never store backhoe without bucket attached to the backhoe.

CAUTION: Never raise 3-PT position/draft lever while backhoe is connected, damage could occur to linkage and hydraulic system or void the warranty. Use mechanical means to secure levers in down positions.

CAUTION: It is Owner/Operator responsibility to ensure that the tractor three point top link, tractor frame & hydraulic lift cover area is strong enough to accept three point rigid connection and backhoe force while in operation as extra forces are exerted through 3-PT hitch system. No liability can be accepted for damage to tractor.

We recommend that 3-point lift capacity at 24" beyond the end of the lift arm be at least equal to the weight of the backhoe.

6. BACKHOE ASSEMBLY & MOUNTING

-After removing from crate.

-You may need suitable support to lift and hold backhoe behind 3 pt during assembly.

-Remove plug on top of Hydraulic Tank and fill with Tractor Hydraulic Fluid to level

indicator on side of tank.

⚠ USE EXTREME CAUTION DURING CONNECTION TO THE TRACTOR.

-The 3-PT mounting frame is adjustable to suit most tractor models with Cat 1 3-PT linkage.

- 1. Connect tractor 3-PT arms to lower mounting frame pins. *
- 2. Connect PTO and move bucket down to lift boom to move main frame into vertical position. Lower stabilizers to balance backhoe. Raise Lift Arms until 3-PT top link frame will be close to horizontal with top link connection on tractor. See below for PTO Connection details.
- 3. Connect and Adjust top link assembly. 1 bolt under tower (Longest), 2 bolts in middle (Medium Length), and 1 bolt to top link.
- 4. Connect left hand and right hand lock out brace to the correct hole and secure the bolt and nut tightly. (Shortest Bolts)
- 5. Lower and manually lock the tractor 3-PT position/Draft Lever. (See Tractor's Operation Manual)

-Attach Seat with bolts & nuts provided.

-Operate all cylinders in and out 2 times. Check Oil Level again and fill as needed.

-Attach all safety labels

-Grease all 28 points as detailed below in Lubrication Section

IF YOU HAVE ANY QUESTIONS DURING ASSEMBLY PLEASE CALL SUPPORT AT (541)895-3083, Assembly Video is posted on Vimeo.com



* Most people will raise the lower 3-PT hitch arm to a lever position and then adjust the main frame to vertical. This is fine and is the best position for safe transport, however the lower or closer the backhoe is to the ground the deeper it can dig.

6. BACKHOE OPERATION



The tractor/backhoe should only be operated with all safety equipment properly installed. Keep assistants or by standers a safe distance from the equipment operating area.

Precautionary Notes

-Check below items before operating for your safety.

-Read and understand this manual to avoid accidents.

-Check the hydraulic fitting lines to be correct and set tightly.

-Maintain and repair (if it is needed) the parts or assemblies, check bolts and pins to be sure they are positioned tightly.

-Check tractor with the tractor operator's manual that it can prepared for operating.

-Warm up and operate the tractor and backhoe carefully. Purge any air in the hydraulic lines and cylinders by fully cycling all cylinders several times.

-Check hydraulic level in the tank. It should be full (Refer to the Tractor Operator's Manual).

-Do not operate the hydraulics when not seated in the back-hoe operator's seat.

-Keep all assistants out of area of operation.

-Do not operate rapidly.

-Do not allow riders other than the operator to be on the tractor while operating.

Important:

Use tractor engine speed that your experience permits. At first set PTO RPM of the tractor to slow.

Do not use the boom, dipperstick, swing and stabilizers to lift, push or full objects. This improper use of the hoe may damage the hoe and will not be covered by warranty. They are only to be used to maneuver and operate the bucket.

Important:

Practice quickly turning off the engine or stopping the backhoe immediately in case of an emergency situation.

Important:

Do not operate while the rear tractor wheels are off the ground by stabilizer. It is dangerous to operate the backhoe while rear wheels are off the ground, and creates force on our tractor frame that may damage the tractor.

Position vehicle so that the backhoe is as near to the pile as possible and in such a direction as to minimize the amount of tractor turning required to dump.

Keep the unit clean and perform regular service. Observe safety messages whenever cleaning, servicing, or lubricating.

We urge you to follow this advice:

1. Read and understand this manual as well the Tractor Operator's Manual.

2. Remember and observe the Safety Precautions brought to your attention in this manual, the tractor manual and on the machinery itself.

3. Use good common sense in the everyday operation of this unit. Safety recommendations can never be all-inclusive and you are responsible for watching out for and avoiding unsafe conditions.

4. Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question, don't try it.

5. Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new backhoe and tractor.



When lowering a heavy load, ease it downward slowly. Never drop a loaded attachment and "catch it hydraulically". Stopping a load after it has gained downward momentum places undue strain on the unit and may cause unnecessary damage to the backhoe or tractor or even worse, personal injury.

Before disconnecting hydraulic lines, relieve all hydraulic pressure. Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin causing serious personal injury. If injured by escaping hydraulic oil, seek medical attention immediately.

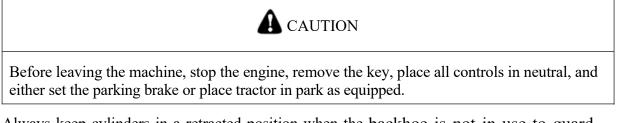


Do not operate the backhoe if the fittings are leaking or if the hoses are damaged. A sudden line burst would cause the boom, or dipperstick bucket to drop suddenly, causing damage to the tractor or backhoe or injury to personnel.

Initial Backhoe Operation

Before operating the backhoe, fully raise and lower the boom, arm, swing and stabilizers two or three times. Then raise the bucket above the ground and cycle the bucket cylinders three times. Lower the bucket to the ground.

Check the tractor hydraulic oil and the correct oil level.



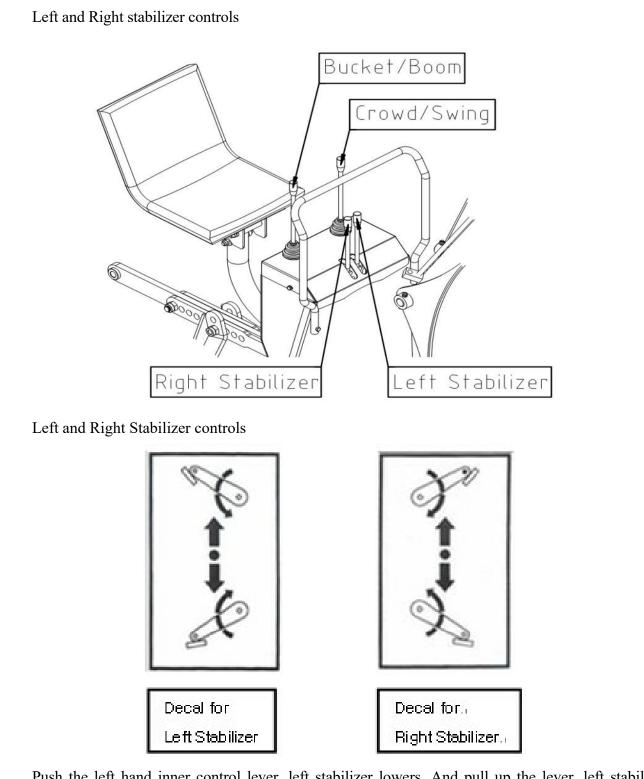
Always keep cylinders in a retracted position when the backhoe is not in use to guard against rust and contamination which may cause damage to the cylinder rods or hydraulic system. Also, lock the swing and boom while tractor is moving and storing for an extended period of time.

Cold Weather Operation

For smooth operation in cold weather, let the tractor warm up. Slowly cycle all of the cylinders several times to warm the oil in the hydraulic system. The backhoe may operate erratically until the hydraulic oil has warmed to operating temperatures.



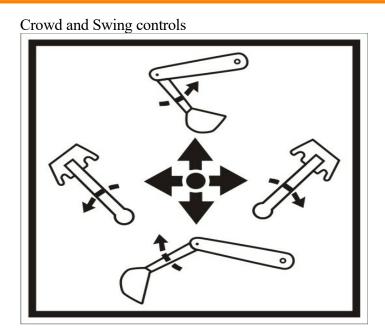
Operate controls only when seated in the operator's seat.



Push the left hand inner control lever, left stabilizer lowers. And pull up the lever, left stabilizer raises.

Push the right hand inner control lever, right stabilizer lowers. And pull up the lever, right stabilizer raises.

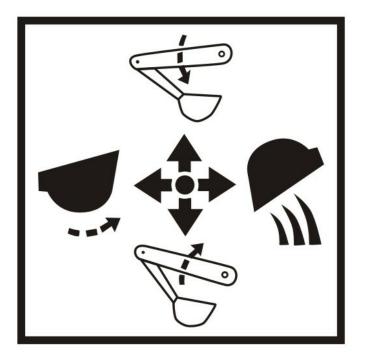
Do not dig near the stabilizers to avoid possible accident. Do not lift the tractor rear wheels by stabilizers. Also, be sure the stabilizers are seated on hard ground to support. The backhoe/tractor.



Push the left hand outer control lever, arm (dipperstick) moves toward the operator, and pull back the lever, arm (dipperstick) moves away from operator.

Move the left hand outer control lever to the left, boom swings moves to the left. Move lever right, boom swing moves to the Right.

Bucket and Boom controls

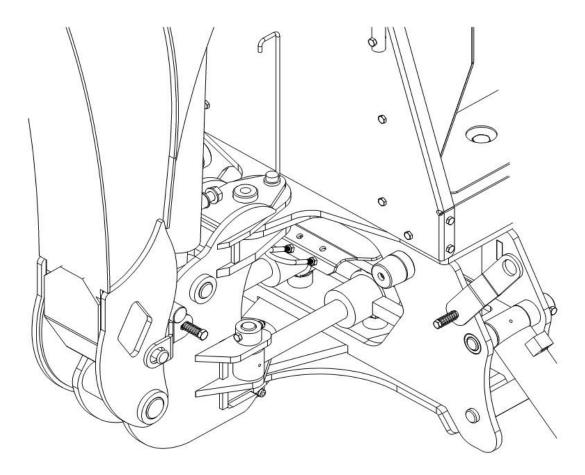


Push the right hand outer control lever, boom moves down, and pull back the lever, boom moves up.

Move the right hand outer control lever to the left, bucket curls in. Move lever right, bucket extends out from operator.

Farmer-Helper BH 8 & 9

These two levers (Crowd and swing control lever, Bucket and Boom control lever) provide four simultaneous operations. Both experience and practice are needed to eliminate excess motion and increase operating efficiency.



Swing Lock and Boom Lock When transporting or dismounting backhoe, you must lock the backhoe's swing and boom. Position boom straight back and drop pin through holes in swing frame and boom. When not in use, store pin in hole provided on swing frame and boom. Observe the following safety warnings when working with your new backhoe/tractor.

A CAUTION

When using a backhoe, be aware of bucket and boom location at all times. When raising a arm (dipperstick) with bucket rolled forward, material can spill onto non target area causing injury to assistant or damage other objects.

Do not dig near stabilizers. Ground under stabilizers could collapse. Make all movements slow and gradual when practicing operation.

Operate from backhoe operators seat only. Pay attention, be ready to stop, immediately in case of an emergency.

To help prevent roll-over, adjust the rear wheels to their widest setting to maximize stability. Refer to your Tractor Operator's Manual for recommendations.

7.. BACKHOE REMOVAL



Move the backhoe to flat, firm and wide place to remove the equipment.

Do not allow to be removed without bucket and stabilizers. Also, Dump the remaining material from the bucket to empty.

Use other lifting equipment to remove when the backhoe has damage.

STEP 1. Move the tractor to backhoe storage place.

STEP 2. Use the inner two levers to lower the stabilizers until they contact to the ground. Use the boom and dipperstick control lever to raise the boom & dippers-tick completely.

STEP 3. Center the boom and then lock the swing with lock pin.

STEP 4. Using the control levers, position the dipperstick vertically, curl the bucket until its bottom is level with the ground, and lower the boom until bottom of the bucket rest on the ground.

STEP 5. Remove pins that secure the backhoe. Subframe in the mounting brackets on the tractor.



Remove the backhoe on firm level ground. Also, Do not allow the other person in the area.

Be careful to avoid injury during removal of the backhoe.

The hydraulic oil is dangerous for skin or eyes. Wash the skin and seek medical service if it is necessary.

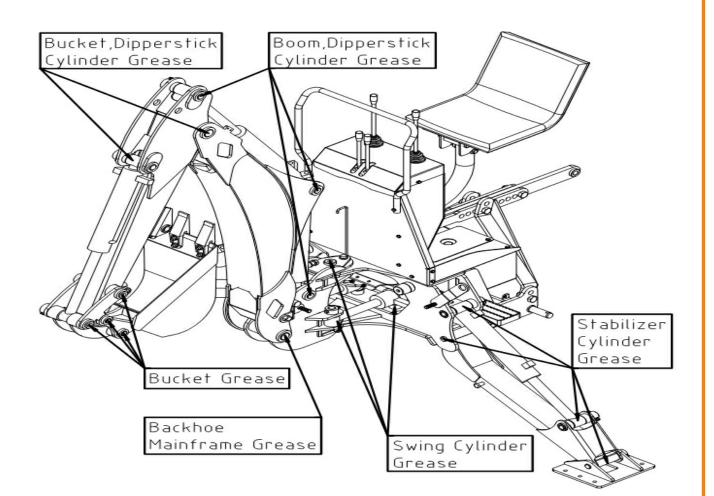
STEP 6. Using both the stabilizer and boom control, set the backhoe subframe horizontally to relieve the weight of the backhoe from the mounting brackets of the tractor.

STEP 7. Move the tractor forward slowly until the backhoe subframe disengages of the mounting brackets.

STEP 8. Lower the backhoe mainframe to the ground by raising stabilizers and boom. Use the wood plate or block if necessary.

STEP 9. Turn off the tractor engine. Relieve hydraulic pressure by actuating all the control levers in each direction, then disconnect the backhoe hose couplers from the tractor hydraulic couplers.

8. LUBRICATION AND MAINTENANCE



ITEM	SERVICE	SERVICE INTERVAL
Hydraulic System Oil Level	Check	Daily/10 hours
Hydraulic System Oil/Filter	Replace	As specified in Tractor
	Керіасс	Operator's Manual
Tire Inflation	Check	Weekly/50 hours
Backhoe Pivot Points	Lubricate	Daily/10 hours
Backhoe Hydraulic Lines, Hoses, Connections	Check for leaks, wear	Daily/10 hours
Boom, Arm, Swing and Bucket cylinder rod packing	Check for seepage, service as needed	Daily/10 hours
Pivot pin bolts and dust covers	Check, replace if missing	Daily/10 hours
Friction of All pins	Check, replace if necessary	Daily/10 hours
Backhoe mount hardware	Check visually	Daily/10 hours
Bolts and Nut release	Re-torque	Every 25 hours

Do not perform service or maintenance Operations with backhoe raised off the ground. For additional access to tractor components remove backhoe.

CAUTION

Important:

Lower the backhoe to the ground and relieve pressure in backhoe hydraulic lines prior to performing any service or maintenance operations on the tractor or backhoe.

CAUTION

Escaping fluid under pressure can have sufficient force to penetrate the skin , causing serious injury . Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood rather than your hands to search for suspected leaks. If injured by escaping fluid, seek medical attention immediately. Serious infection or reaction can develop if correct medical treatment is not administered immediately.

Refer to "Lubrication and Maintenance Chart" for quick reference to Maintenance Operations.



Do not operate the backhoe if the fittings are leaking or if the hoses are damaged. A sudden line burst could cause the boom, dipperstick or bucket to drop suddenly, causing damage to the tractor or backhoe or injury to personnel.

Operate the backhoe from the operator seat only.

Do not stand or walk under a raised backhoe. Accidental movement of control lever or leak in hydraulic system could cause boom or dipperstick to drop, causing severe injury.

Check the tractor hydraulic system as outlined in the Tractor Operator's Manual.

NOTE

When checking hydraulic system oil level, the backhoe should be on the ground and bucket fully retracted(all cylinders in retracted position).

Grease all backhoe pivot points daily(10 hours). Refer to Tractor Operator's Manual for lubricant recommendations.

Inspect hydraulic hoses, connections, control valve and cylinders for evidence of leakage.

Tractor tires should be maintained at maximum recommended inflation to maintain normal tire profile with added weight of backhoe/material. Unequal rear tire inflation can result in bucket not being level to the ground.

9. TROUBLE SHOOTING

This Trouble Shooting Chart is provided for reference to possible backhoe operational problems. Determine the problem that best describes the operational problem being experienced and eliminate the possible causes as listed by following the correction procedures.

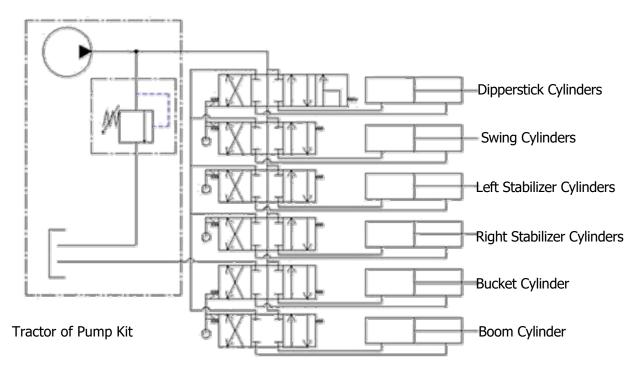
PROBLEM	POSSIBLE CAUSE	CORRECTION		
	Low hydraulic fluid level.	Check and replenish hydraulic fluid.		
	Hydraulic hoses connected	Check and correct hydraulic hose		
	improperly	connections		
	Hydraulic hoses to/from control valve blocked	Check for damage (kinked) hoses, etc		
	Backhoe control valve or tractor main relief valve stuck open	Check system pressure. Repair or replace relief valve. Refer to the Tractor Operator's Manual		
	Low system pressure supplied from hydraulic pump	Check system pressure. Repair or replace pump		
Swing, Boom,	Control valve linkage broken	Inspect. Repair as required		
Dipperstick and Bucket Cylinders Not operating properly	Quick disconnect coupler(s) are not fully connected or "Flow Check"	Check coupler connections. Replace coupler(s) if necessary		
	Hydraulic hose or tube line blockage	Check for evidence of damage to hoses or tube lines that would block flow of oil between cylinders and control valve		
	Cylinder piston assembly defective (not sealing)	Check cylinders for internal leakage as described in service section under cylinder leakage tests.		
	Control valve blockage	Inspect for blockage. Disassemble valve if necessary.		
Cylinders operate in wrong direction relative to control valve lever position	Hydraulic hoses connected incorrectly	Correct hydraulic hose connections		

	Low hydraulic fluid level.	Check and replenish hydraulic fluid
	Cold hydraulic fluid	Allow hydraulic system to warm up to operating temperature
	Hydraulic Oil viscosity too heavy or Incorrect oil	Check oil number and viscosity, Refill correct hydraulic oil
	Engine R.P.M. too slow (hydraulic pump R.P.M. too slow)	Increase engine speed to obtain satisfactory backhoe operation
	Excessive weight in bucket. Material weight exceeds maximum specified backhoe capacity	Reduce material load. (Digging load)
	Control valve linkage binding/defective	Check control valve linkage and repair if worn/defective.
Slow or erratic movement of	Aeration of hydraulic fluid	Refer to "Aeration of Hydraulic Fluid"
Cylinders (Noisy operation of cylinders)	Quick disconnect coupler restriction or coupler "Flow checks"	Check coupler connections. Repair or replace
	Hydraulic hose or tube line restriction (hoses/tube line) kinked or pinched	Check hoses and tube lines for evidence of restriction
	Boom, Dipperstick or Bucket cylinder piston assembly leakage	Check cylinders for leakage. Repair as needed
	Relief valve erratic or set below specifications	Check and reset relief valve. Setting as needed.
	Control valve leaking internally.(hypassing fluid within valve).	Replace control valve and recheck operation.
	Engine R.P.M. too slow.	Increase engine R.P.M
	Excessive load. Material loading exceeds specified backhoe capacity	Reduce Load
I 1 / 1'0'	Relief valve setting below specifications	Check and reset relief valve setting as needed.
Inadequate lifting capacity	Bucket, Boom and Dipperstick cylinder piston assembly leakage	Check cylinders for leakage. Repair as needed
	Control valve leaking internally	Replace control valve and recheck operation
	Hydraulic pump defective	Refer to "Hydraulic Pump Capacity Inadequate".
	Low hydraulic fluid level	Check and refill hydraulic system to proper level.
Aeration of Hydraulic Fluid(Generally indicated by foamy	Air leaking into suction side of hydraulic pump.	Check for loose or defective connections between reservoir and hydraulic pump
appearance of fluid)	Hydraulic fluid foaming due to improper hydraulic oil usage	Refer to Tractor Operator's Manual and replace hydraulic oil using recommended hydraulic oil.

	Cold Hydraulic Fluid	Allow hydraulic fluid to warm up to operating temperature		
	Hydraulic Oil viscosity too heavy	Check oil number and viscosity, Refill correct hydraulic oil.		
System relief valve	Excessive load in bucket. Loading exceeds specified backhoe capacity	Reduce load		
squeals.	Relief valve setting below specifications	Check and reset valve setting as needed		
	Hydraulic hose, tube line or quick disconnect coupler restriction	Check for evidence of restriction in hydraulic oil flow. Repair or replace defective components		
Backhoe drops with valve spool in "centered" position (no external oil	Cylinder piston assembly leakage	Check cylinders for leakage		
leakage evident) Note: A gradual drop over an extended period of time is a normal	Control valve internal leakage	Replace control valve and recheck		
Control valve spool(s) will not return to	Control lever linkage binding	Determine origin of binding and repair		
	Control valve spool centering is broken	Replace centering spring		
centered position	Control valve spool binding in	Disassemble valve for inspection and repair.		
	Loose hydraulic connection	Tighten loose connections		
External hydraulic	Defective hydraulic hose, tube line, adapter fitting or adapter fitting	Check for origin of oil leak and replace defective part.		
fluid leakage	Control valve o-rings defective	Replace defective o-rings		
liaid lealinge	Control valve spool or body damaged or worn	Replace control valve		
	Cylinder rod packing set leakage	Check cylinders for leakage. Repair		
	Cold hydraulic fluid	Allow hydraulic fluid to warm up to operating temperature		
	Engine R.P.M. too slow	Increase engine R.P.M		
Hydraulic pump	Low hydraulic fluid supply	Refer to Tractor Operator's Manual for service recommendations		
capacity inadequate	Hydraulic hose restriction	Check for evidence of restriction in		
		hydraulic hoses Refer to Tractor Operator's Manual for recommended service procedures. Replace hydraulic		
Cylinder rod bend when cylinders extended	Excessive shock load on cylinders during transport	Replace defective parts. Review and observe proper and safe operational practices		

10. HYDRAULIC SYSTEM SCHEMATIC

AUXILIARY HYDRAULIC VALVE PACKAGE



Controls are setup in ISO standard, If you want SAE contorl format, contact support@betstco.com for information of which hoses to switch.

11. TORQUE TIGHTENING CHART

TORQUE TIGHTENING CHART 1

SAE Grade No.		2	2			1	5		8*			
Bolt head identification (see note 1)		\langle	\geq		E	\rangle \langle	\rangle	$\overline{\langle}$	$\left\{ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	\rangle	\rightarrow	\square
	LB	- FT	N	lm	LB	- FT	N	m	LΒ	- F T	1	۷m⊌
Bolt size	Min	Max	Min	Max	Min	Max	Min	Мах	Min	Max	Min	Ма
1/4	5	6	7	8	9	11	12	15	12	15	16	
5/16	10	12	14	16	17	20.5	23	28	24	29	33	
3/8	20	23	27	31	35	42	48	57	45	54	61	
7/16	30	35	41	47	54	64	73	87	70	84	95	
1/2	45	52	61	70	80	96	109	130	110	132	149	2
9/16	65	75	88	102	110	132	149	179	160	192	217	
5/8	95	105	129	142	150	180	203	244	220	264	298	(
3/4	150	185	203	251	270	324	366	439	380	456	515	1
7/8	160	200	217	271	400	480	542	651	600	720	814	į
1	250	300	339	406	580	696	787	944	900	1080	1220	14
1 1/8			9 10		800	880	1085	1193	1280	1440	1736	19
1 1/4					1120	1240	1519	1681	1820	2000	2468	2
1 3/8					1460	1680	1980	2278	2380	2720	3227	36
1 1/2			6	3	1940	2200	2631	2983	3160	3560	4285	48

TORQUE TIGHTENING CHART 2

Note: Use these torques, unles engine oil,		supplie	re specifie er, Fasten	ed, Values ers can be	are UNC e dry or lu	bricated v	thread fas with norma	al			received f	rom	
ISO Class No.		8	.8			10	.9		12,9				
Bolt head identification (see note1)		8	.8			(10	1.9			(2.9		
D 1 0	N	m	LB ·	- FT	N	m	LB	- FT	N	m	LB -	FΤ	
Bolt Size	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
M4	3	4	2	3	4	5	3	4					
М5	6.5	8	5	6	9.5	11	7	8					
M6	10.5	12	8	9	15	17.5	11	13					
M8	26	31	19	23	37	43	27	32	Becau	Because of the low ductility o			
M10	52	61	38	45	73	87	54	64			, the torqu ned individ		
M12	90	107	66	79	125	150	93	112		pplication	n, As a torque rar	ndes	
M14	144	172	106	127	200	245	149	179	specifi	ed for gra	de 10,9fa	steners	
M16	217	271	160	200	310	380	230	280		steners	lusiacioniy	OII	
M20	434	515	320	380	610	730	450	540	+M141	referred s	ize.		
M24	675	815	500	600	1050	1275	780	940					
M30	1250	1500	920	1100	2000	2400	1470	1770					
M36	2175	2600	1600	1950	3500	4200	2580	3090					

Note 1: Bolt head identification marks as per grade, Manufacturing mark will vary,

12. PART ILLUSTRATIONS

GENERAL INFORMATION

Illustrations

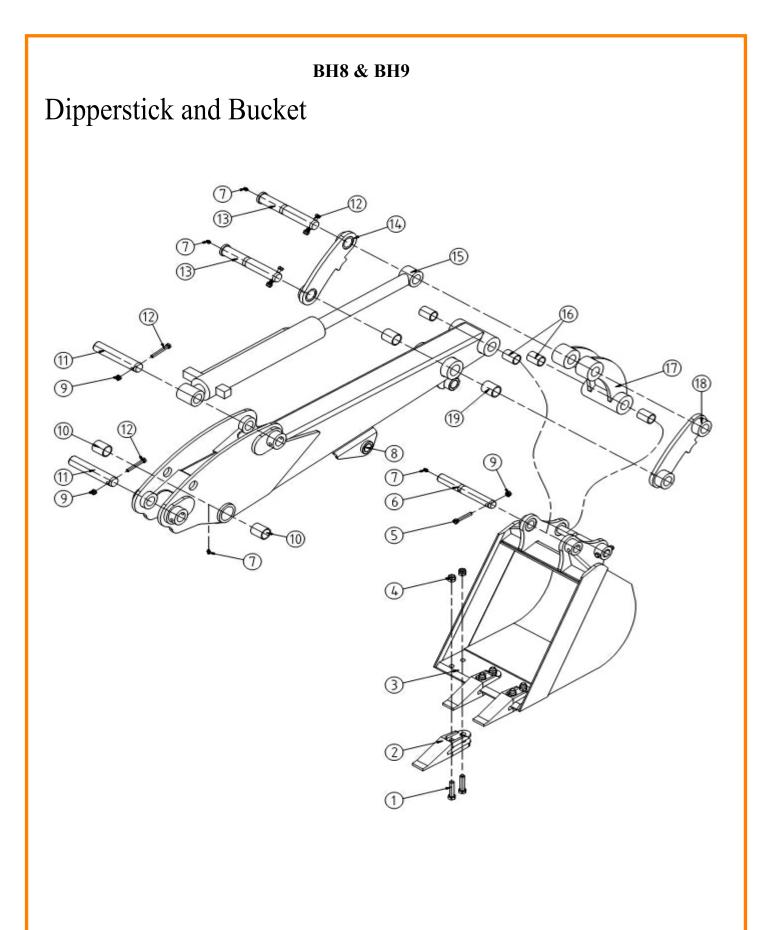
The individual parts in their normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Number" column and are followed by the quantity required and description.

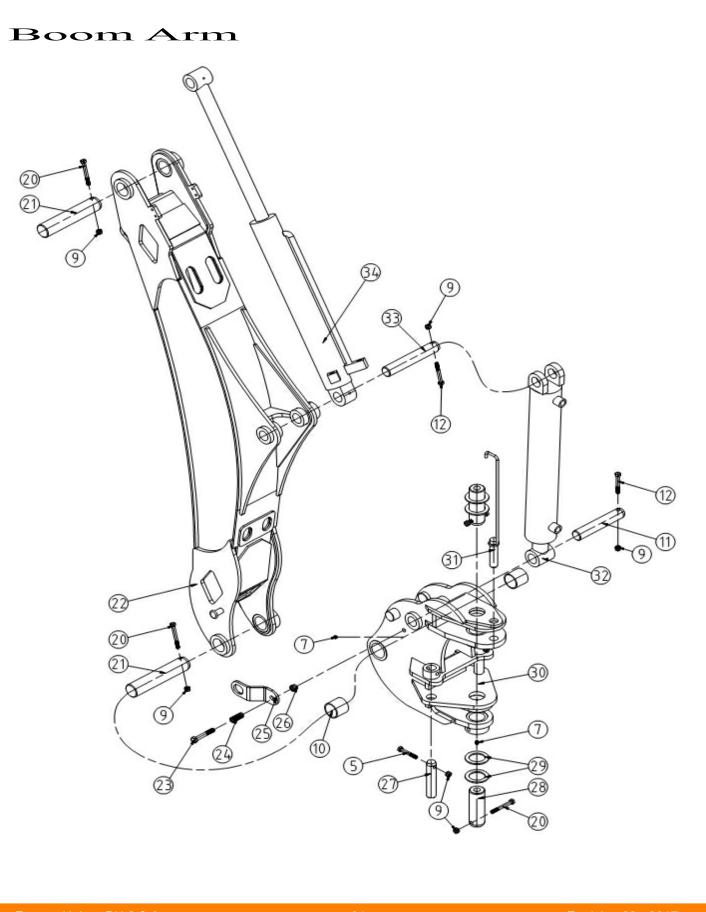
Directional Reference

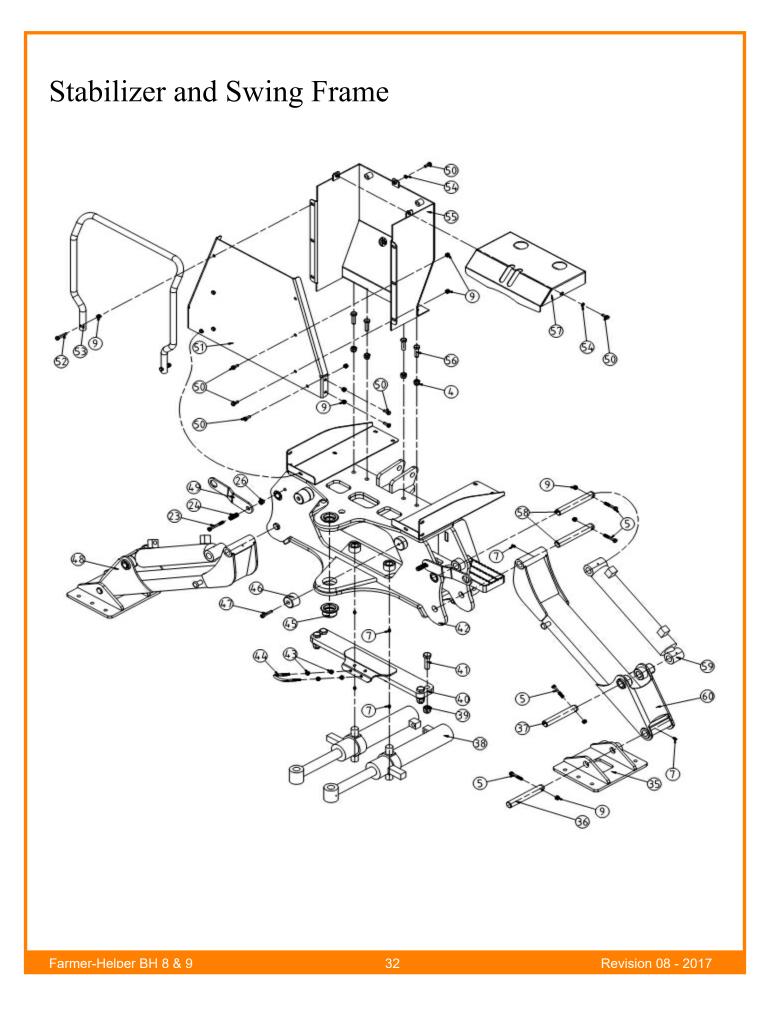
"Right hand" and "left hand" sides are determined by standing at the rear of the unit and facing in the direction of forward travel.

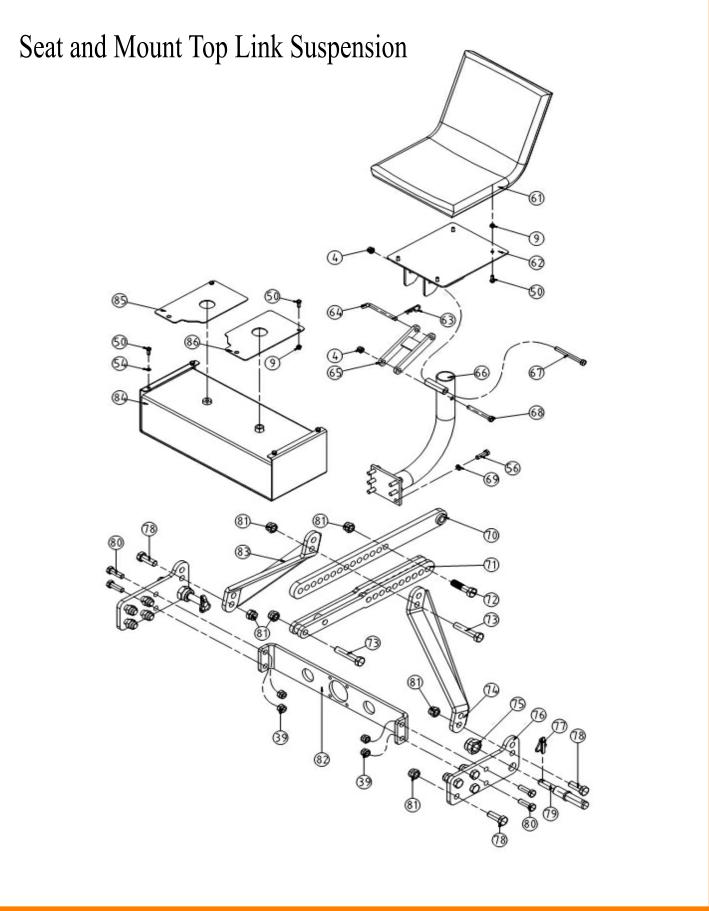
Part Order

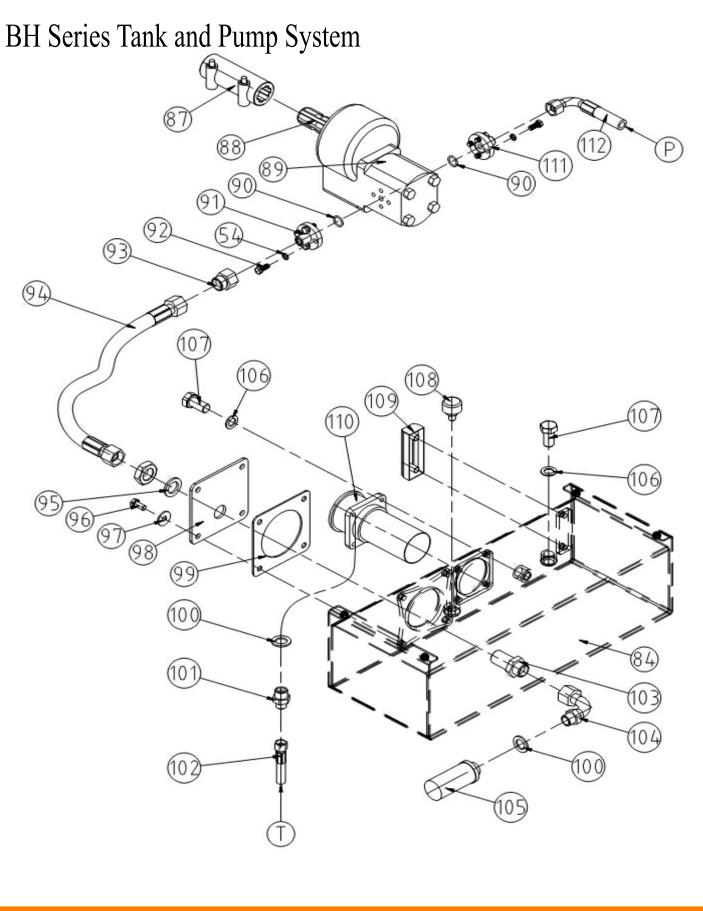
Orders must give the complete description, correct part number, the total amount required, the product model, all the necessary serial numbers, the method of shipment and the shipping address.

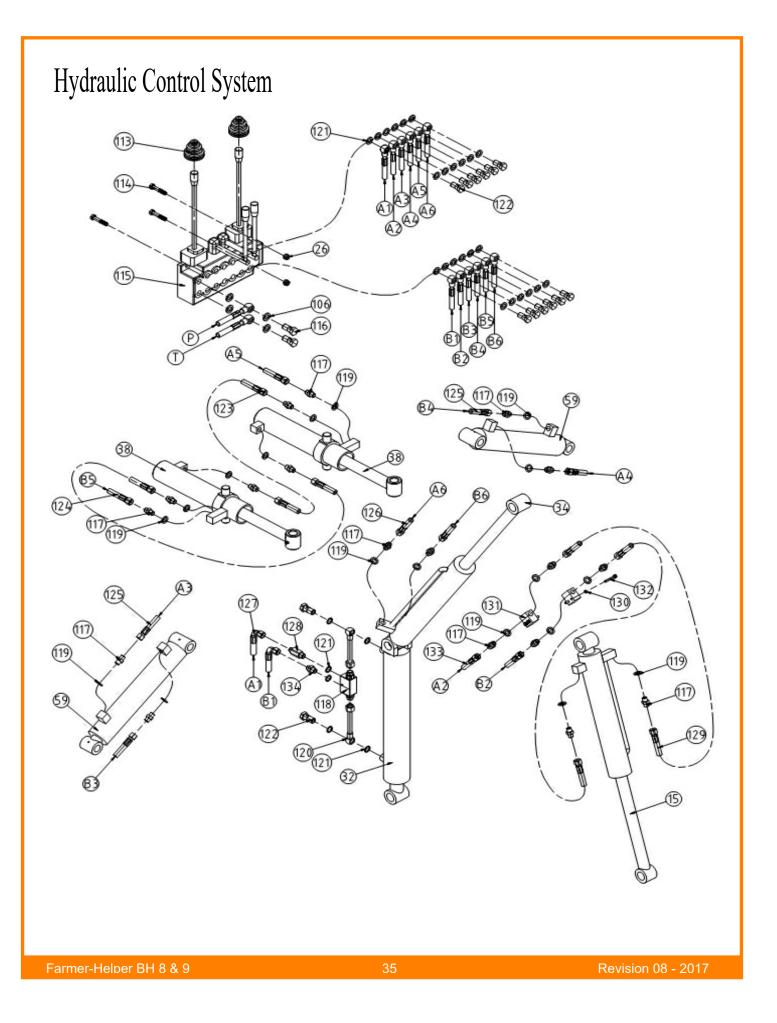












BH8 & BH9

	er BH 8 & 9	36	B	vision 08 -
36	BH225.119	Pin 25*166	销轴25*166	2
35	BH225.031	Stabilizer board weldment	撑脚焊合件	2
34	BH255.018	Front arm cylinder	小臂油缸	1
	BH225.018			
			销轴30*180	1
	BH255.019	Boom cylinder	大臂油缸	1
	BH195.040 BH225.019	Swing locking pin weldment		1
	BH225.026	Swing frame weldment	摆座焊合件	1
29	BH195.107	Washer		4
28	BH225.111	Swing shaft		2
27	BH225.110	Pin 25*117	销轴25*117	2
26	GB/T889.1-2000	Locking Nut M10	锁紧螺母M10	3
25	BH225.109	Boom locking plate	大臂锁板	1
24	BH195.105	Spring	压簧	3
23	GB/T5782-2000	Bolt M10*60	螺栓M10*60	3
	BH255.017	Boom weldment	大臂焊合件	1
21	BH225.104 BH225.017	Pin 40*193	销轴40 * 193	2
20	GB/T5782-2000	Bolt M8*70	螺栓M8*70	4
19	SF-2	Sleeve 30*34*40	衬套 30*34*40	2
18	BH225.013	Moon plate weldment right	右连板焊合件	1
17	BH225.011	Bucket adaptor weldment	内连板焊合件	1
16	SF-2	Sleeve 25*29*40	衬套 25*29*40	4
10	BH255.015	Bucket cylinder	挖斗油缸 社会 95+90+40	1
14	BH225.012 BH225.015	Moon plate weldment left	左连板焊合件	11
13	BH225.101	Pin	连板销	2
12	GB/T5782-2000	Bolt M8*60	螺栓M8*60	6
11	BH225.103	Pin 30*161	销轴30*161	3
10	SF-2	Sleeve 40*44*40	衬套 40*44*40	4
9	GB/T889.1-2000	Locking Nut M8	锁紧螺母M8	37
	BH255.016	Front arm weldment	小臂焊合件	1
	BH225.016	_		
7	JB/T7940. 1-1995	Oil cup M8	油杯M8	16
6	BH225.102	Pin shaft for bucket	挖斗销	2
5	GB/T5782-2000	Bolt M8*55	螺栓M8*55	12
4	GB/T889.1-2000	Locking Nut M12	锁紧螺母 M12	5
3	BH225.014	Bucket weldment	挖斗焊合件	1
2	BK6N. 01. 105	Blade		3
1	GB/T5782-2000	Bolt M12*50		3

Fa

38	BH195.031	Swing cylinder	转向油缸	2
39	GB/T889.1-2000	Locking Nut M16	锁紧螺母M16	8
40	BH225.029	Cross bar weldment	固定座焊合件	1
41	GB/T5783-2000	Bolt M16*55	螺栓M16*55	4
42	BH225.025	Base weldment	底座焊合件	1
43	GB/T6170-2000	Nut M8	螺母M8	4
44	BH225.108	U-Bolt	油管抱箍	1
45	BH195.108	Copper bush	隔套	2
46	BH195.117	Rubber cushion	缓冲垫	2
47	GB/T70.1-2000	Bolt M8*40	内六角螺钉M8*40	2
48	BH225.030	Right stabilizer rod weldment	右撑腿焊合件	1
49	BH195.113	Fix plate for stabilizer	撑腿锁板	2
50	GB/T5783-2000	Bolt M8*20	螺栓M8*20	21
51	BH225.117	Front cover board	控制柜前盖板	1
52	GB/T5782-2000	Bolt M8*40	螺栓M8*40	2
53	BH195.114	Hand rail	扶手管	1
54	GB/T93-1987	Spring washer 8	垫圈 8	7
55	BH225.032	Bracket of valve weldment	控制柜焊合件	1
56	GB/T5783-2000	Bolt M12*35	螺栓 M12*35	10
57	BH225.112	Up cover board	控制柜上盖板	1
58	BH225.116	Pin 25*173	销轴25*173	4
59	BH225.033	Stabilizer cylinder	撑腿油缸	2
60	BH225.027	Left stabilizer rod weldment	左撑腿焊合件	1
61	BK6N. 05. 101	Seat	座椅	1
62	BH225.020	Seat plate weldment	座椅连接板焊合件	1
63	RPIN 3.2	RPIN 3.2	R销 3.2	1
64	BH225.106	Seat pin	座椅插销	1
65	BH225.021	Seat adjusting weldment	座椅调节板焊合件	1
66	BH225.022	Seat sustain plate weldment	座椅支撑架焊合件	1
67	GB/T5782-2000	Bolt M12*110	螺栓M12*110	1
68	GB/T5782-2000	Bolt M12*100	螺栓M12*100	1
69	GB/T93-1987	Spring washer 12	垫圈 12	6
70	BH195.026	Adjusting weldment	拉杆焊合件	1
71	BH195.027	Pull plate	拉杆叉焊合件	1
72	GB/T5782-2000	Bolt M20*80	螺栓 M20*80	1
73	GB/T5782-2000	Bolt M20*110	螺栓 M20*110	2
74	BH225.023	Left suspensive plate weldment	左悬挂焊合件	1
75	GB/T889.1-2000	Locking Nut M30	锁紧螺母M30	2
76	BH225.107	Bracket	悬挂连接板	2
77	BH195.014	Locking pin 12	锁销 12	2
78	GB/T5783-2000	Bolt M20*55	螺栓 M20*55	10
79	BH225.114	Pin for lifting	下悬挂销	2
80	GB/T5783-2000	Bolt M16*50	螺栓M16*50	4
81	GB/T889. 1-2000	Locking Nut M20	锁紧螺母M20	13
82	BH225.115	The plate fix the pump	齿轮泵连接板	1

84	BH225.028	Right suspensive plateOil tank weldment	右悬挂焊合件 油箱焊合件	1
85	BH225.120	Right cover	右盖板	1
86	BH225.113	Left cover	左盖板	1
87	BK6N.07.001	Sleeve assembly	花键连接套总成	1
88	PG-3	Gearbox	齿轮箱	1
89	CBN-E316	Gear pump CBN-E316	齿轮泵CBN-E316	1
90	GB3452.1	0-ring 18x23x2.5	0形圈 18x23x2.5	2
91	BH5. 60. 103	Pump adapter, in	泵进油接头	1
	<u>GB/T5783-2000</u>	Bolt M8*25	螺栓M8*25	8
93	BH5. 60. 104	Pump conversion adapter	泵转换接头	1
94	BH5. 60. 012	Pump inlet hose	泉进油管	1
95	JB/ZQ4454	Gasket 27	密封垫27	1
96	GB/T5783-2000	Bolt M10*20	螺栓M10*20	4
97	GB/T 96.1-2002	Plain washer 10	大垫圈10	4
98	BH5. 40. 106	Filter plate	吸油滤座	1
99	BH5. 40. 107	Gasket	密封垫	1
100	JB/ZQ4454	Gasket 22	密封垫22	2
101	BH5. 60. 107	Adapter 22-18	接头22-18	1
102	BH5. 60. 013	Valve return hose	阀回油管	1
103	BH5. 60. 105	Adapter 27	接头27	1
104	BH5. 60. 106	Bend adapter	弯接头	1
105	WU-25x100J	Filter	过滤器	1
106	JB/ZQ4454	Gasket 18	密封垫18	6
107	JB/ZQ4451	Plug M18x1.5	螺塞M18x1.5	2
108	C-M12	Air fifter C-imdicators with thermometer	空滤C-M12 液位液温计	1 1
110	RFA-25	0il filter	滤油器	1
111	BH5. 60. 102	Pump adapter,out	泵出油接头	1
112	BH5.60.011	Valve inlet hose	阀进油管	1
113	BH5.50.102	Rubber cover	护套	2
114	GB/T5782-2000	Bolt M10*55	螺栓M10*55	3
	DF6250	Valve DF6250	多路阀DF6250	11
116	BH5. 60. 101	Hollow bolt 18		2
117	BH5. 60. 109	Adapter 14-14		18
118	FLP180.005	Throttle valve	单向节流阀	1
119	JB/ZQ4454	Gasket 14	密封垫14	18
	BH225.044			
	BH255. 044	 Ball adapter	 单向阀油管组合件	2
121	JB/ZQ4454	Gasket 16	室封垫16	30
121	BH5. 60. 110	Hollow bolt 16	空心螺栓16	14
122	BH225. 047	Hose, Swing To Swing	<u> </u>	2
140	DII220. 011	nose, swing to swing	1、11111日日	4

125	BH225.045	Hose, Valve To Stabilizer	撑腿油管	4
	BH225.048			
126	BH255.048	Hose, Valve To Dipperstick	小臂油管	2
127	BH225.041	Hose, Valve To Boom	大臂油管	2
128	FLP180.602	Long, Adapter 14-16	长接头14-16	1
	BH225.043			
129	BH255.043	Hose, Adapter To Bucket	挖斗前油管	2
130	GB/T93-1987	Spring washer M6	弹垫圈6	4
131	BH195.121	Adapter base	油管连接块	2
132	GB/T5782-2000	Bolt M6*40	螺栓M6*40	4
	BH225.042			
133	BH255.042	Hose, Valve To Adapter	挖斗后油管	2
134	FLP180.601	Adapter 14-16	短接头14-16	1



Parts Request Form

Fax to 541-895-2756 or E-mail parts@betstco.com

Name:		Model Number: Serial Number: Purchased From: Purchase Date:			
Item No.	Description	Qty	Price	Amount	

Comments:

Farmer Helper Machinery Brand LIMITED WARRANTY

Unless otherwise stated on purchase invoice, Betst Products, IIc. warrants to original Purchaser that Farmer Helper Machinery products are free from major defects in material under normal use and service for a period of Two (2) Years from the date the product is purchased or shipped, whichever is later.

Commercial use 180 days. Use at address that is not yours, is considered commercial use. Consumable, Expendable, Wear Items (Examples:Rubber & plastic parts, hydraulic hoses, belts, tires, cables, blades, tines, wedges, teeth, tips, chains, pins, brushes, filters, etc.) and cracked hydraulic pumps, bent or broken cylinder rods are not covered under this warranty. Warranty does not cover items that have been modified, damaged by abuse or usage not in accordance with design or maintenance.

Betst Products, IIc. obligation under this warranty is to repair or replace defective product upon approval by; Betst Products, IIc., 83371 Melton Rd., Creswell OR 97426 that Warranty Claim is Valid. Product shall be returned upon request of Betst Products, IIc. Transportation charges to be prepaid by buyer. Gasoline or diesel engines used to powered Farmer Helper Machinery products are covered by the warranty of the appropriate engine manufacture and Purchaser must look to the engine manufacture for all issues relating to engine operation.

Betst Products, IIc. assumes no responsibility for labor.

PERMISSIBLE BY APPLICABLE LAW, BETST PRODUCTS, LLC. HEREBY DISCLAIMS ALL WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, ANY IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT PURCHASED, WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, BETST PRODUCTS, LLC. HEREBY EXPRESSLY DISCLAIMS ALL LIABILITY FOR PRODUCT DEFECT OR FAILURE, CLAIMS THAT ARE DUE TO NORMAL WEAR, PRODUCT MISUSE, ABUSE, PRODUCT MODIFICATION, IMPROPER PRODUCT SELECTION, NON-COMPLIANCE WITH ANY CODES, OR MISAPPROPRIATION.• BETST PRODUCTS, LLC. MAKES NO WARRANTIES TO THOSE DEFINED AS "CONSUMERS" IN THE MAGNUSON-MOSS WARRANTY-FEDERAL TRADE COMMISSION IMPROVEMENTS ACT. THE FOREGOING EXCLUSIONS OF IMPLIED WARRANTIES DO NOT APPLY TO THE EXTENT PROHIBITED BY LAW. PLEASE REFER TO YOUR LOCAL LAWS FOR ANY SUCH PROHIBITIONS

THERE SHALL BE NO LIABILITY FOR PRODUCT LIABILITY OR LIABILITY ON THE PART OF BETST PRODUCTS, LLC. FOR ANY GENERAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE SALE OR USE OF ANY PRODUCTS SOLD BY BETST PRODUCTS, LLC OR AN AGENT THEREOF. BETST PRODUCTS, LLC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, (INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF THE PRODUCTS FOR ANY PURPOSE) WITH RESPECT TO THE PRODUCTS COVERED BY THIS AGREEMENT EXCEPT AS IN THIS PARAGRAPH OTHERWISE EXPRESSLY PROVIDED.

THIS IS THE SOLE AND ONLY WARRANTY OF Farmer Helper Machinery PRODUCTS. NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESSED OR IMPLIED, IN FACT OR BY LAW,

This warranty shall not be interpreted to render Betst Products, IIc., or any authorized agent liable for injury or damages of any kind or nature, direct, consequential, or contingent, to person or property.

The sole and only remedy in regard to any defective products shall be the repair or replacement thereof as herein provided. Betst Products, llc., agent(s) of Betst Products, llc. shall not be liable for any consequential, special, incidental or punitive damages resulting from or caused by any such defects.

Betst Products, Ilc. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify, or enlarge this warranty nor the exclusions, limitations, and reservation thereof.





WARRANTY VOID IF REGISTRATION IS NOT RECEIVED OR RECORDED ONLINE WITHIN 30 DAYS OF PURCHASE DATE OR SHIP DATE, WHICHEVER IS LATER.

REGISTRATION

Item	Model #		Purchase Date	_/	_/	
Purchased From:	Gift 🗖 Inv#/Order#				_	
Owner Name:	Serial # (if Applicable)					_
Owner Address:						_
City:	County:	ST:	Zip Code:			
Phone:	Email:					-

Acceptance of responsibility:

I (Purchaser) have read operators manual and Limited Warranty or someone has read/and explained all instructions to me. I understand this warranty does not cover any labor and that all disputes will be settled by binding arbitration. Binding arbitration is conducted by the Better Business Bureau (BBB) located at 4004 SW Kruse Way Place Ste 375 Lake Oswego OR 97035 or the current BBB location closest to Betst Products, I acknowledge my Limited Warranty is void if any attempt to repair or replace defective parts has been made by unauthorized personnel. I acknowledge receipt of my Operators Manual and have read the Safe Operation Section. I acknowledge understanding maintenance and safe operation requirements, item specifications, operation, controls, and storage requirements. I understand that I alone am responsible for proper maintenance, care and safe operation of this Farmer-Helper item.

I (Purchaser) agree that persons not familiar with the operation of this item should not be allowed to use it. Children especially should not operate or be near Power Products when in use. ANYONE OPERATING VALUE-LEADER PRODUCTS SHOULD HAVE READ OPERATIONS MANUALS AND SAFETY MANUALS.

Owners Signature: x _____

You must sign this warranty and mail or fax copy to Betst Products, 83371 Melton Rd, Creswell OR 97426. If you prefer you may complete your registration on line. This warranty is not effective unless the Purchaser completes Registration and Warranty Form within 30 days of purchase or ship date whichever is later.

Email: support@betstco.com

NOTE: We may refuse warranty of any kind unless Betst Product, IIc., receives a completed, legible and signed warranty registration. It is the responsibility of the purchaser to assure that registration document is received by Betst Products, IIc..

Email: support@betstco.com





2 YEAR EXTENDED WARRANTY & REGISTRATION

Farmer Helper Machinery Branded Products

2 YEAR EXTENDED WARRANTY

2 Year Extended Warranty amends to original Recorded Warranty Registration the time period of described coverage. Extended Warranty does not apply to Consumable and Expendable Items as described in Product Warranty Registration.

This Amendment does not affect any other part of recorded Warranty Registration or Policy.

No one is authorized to alter, modify, or enlarge this Amendment to original recorded warranty registration.

EXTENDED REGISTRATION & PAYMENT MUST BE RECEIVED WITHIN 30 DAYS OF PURCHASE DATE

EXTENDED WARRANTY REGISTRATION

oduct & Model # :	
erial #:	
wner Name:	
etst Products Invoice #	

Acceptance of responsibility:

I (Purchaser) have Read and understand the Extended Warranty or someone has read/and explained all the above to me. I understand this extended warranty does not cover any labor. I have filed my Original Warranty Registration and fully understand my requirements. I understand that I alone am responsible for proper maintenance, care and safe operation of this tractor implement.

I (purchaser) also understand that persons not familiar with the operation of this equipment should not be allowed to use it. Children especially should not operate or be near equipment. ANYONE OPERATING EQUIPMENT SHOULD HAVE READ ALL EQUIPMENT OPERATIONS MANUALS AND SAFETY MANUALS.

Owner(s) Signature: x

Date:

You must sign this extended warranty and email to <u>support@betstco.com</u> or mail copy to Betst Products, 83371 Melton Rd, Creswell OR 97426. This extended warranty is not effective unless the Purchaser faxes or mails this Registration Form within 30 days of purchase. NOTE: The manufacturer may refuse warranty of any kind unless Betst Products receives a completed, legible and signed extended warranty registration. It is the responsibility of the purchaser to assure that this registration document is received by Betst Products.

To Make Payment for Extended Warranty Call: 1-877-876-7895

Farmer-Helper BH 8 & 9