

Operator's Manual & Repair Parts Manual



**Do Not Use or Operate This Equipment
Until You Have Read and Understand This Manual**



The purpose of this manual is to explain maintenance requirements and adjustments which are necessary for the most efficient operation of the machine. Read this manual thoroughly and completely before using your machine. Keep this manual handy for reference when questions arise.

Should you have questions or difficulties which your dealer or representative are unable to answer, please call or write:

Bigham Ag
1220 E Durkee St
Carlisle, AR 72024

Telephone: (870) 552-7517
Fax: (870) 552-3303



S-Tine Cultivator

Models: ST38FX, ST26F, ST10, ST9

Dealer Preparation Checklist

Complete the items below before delivering and operating the implement.

- All 3-Point Hitch Pins Installed Properly
- Implement configured to customer's desired row spacing
- Check for sufficient clearance between tractor tires & implement
- All fittings and bearings lubricated
- All wheel nuts checked and tightened on gauge wheels
- Tires inflated to proper pressure
- Hydraulic hoses of proper length for customer's tractor
- All decals in place and readable
- Operator's manual has been delivered to owner and the owner has been instructed on safe and proper use of the implement

Dealer's Signature _____

Customer's Signature _____

This Checklist is to remain in the Owner's Manual

It is the responsibility of the dealer to complete the procedures listed above before the delivery of this implement to the new owner.

BIGHAM AG EQUIPMENT

A MESSAGE TO THE OWNER AND OPERATOR:

This machine was carefully designed and manufactured to give you dependable service. To keep it running efficiently, read the instructions in this Operator's Manual. Check each item and acquaint yourself with the adjustments required to obtain efficient operation and maximum performance. Remember, the machine's performance depends on how you operate and care for it.

After the operating season, thoroughly clean your machine and inspect it. Preventive maintenance saves time and pays dividends. Your dealer has original equipment parts which assure proper fit and best performance. Record the model number, serial number and date of purchase in the space provided on this page. Your dealer needs this information to give you efficient service when you order parts or attachments. The model number and serial number appear on the identification plate on the front left side of the tool bar mast.

The Warranty on your machine is included with this manual. Your dealer will review both this manual and the warranty with you when you take delivery of your machine.

WARRANTY

Bigham Ag warrants all products of its manufacture to be free from defects in materials and workmanship for a period of six months from date of delivery to the retail purchaser. Parts assumed to be defective must be returned F.O.B. Carlisle, AR for our inspection or inspected in the field by our authorized representative. Our obligation under this warranty is limited to replacement or repair of the defective part and does not cover other damages to persons or property. Other than the aforesaid, no warranties of merchantability or fitness for a particular purpose will apply. We do not assume liability for altered or remanufactured components or machines or applications beyond their intended use. Some states do not allow limitation of how long an implied warranty lasts, or exclusions of, or limitations on relief such as incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Warranty does not cover damage due to abuse, neglect, collision, towing, pulling, normal wear and tear or any other factor beyond the control of the manufacturer. Tool bars that are bent, bowed or that have been welded on or modified in any way are specifically excluded from any warranties.

Manufactured By
Bigham Brothers Inc. – Carlisle, AR

Model # _____

Serial # _____

Operator's Responsibility



**Most accidents are caused because of neglect or carelessness.
Avoid needless accidents by following all of the safety precautions listed below.**

The user is responsible for inspecting the unit before each use and for having necessary repairs done to prevent further damage to the unit. It is the responsibility of the user to read the owner's manual and understand the safe and correct operating procedures for this unit.

- The operator of this unit must read and understand the material contained in this manual.
- The unit should be operated by those responsible and authorized by the owner to do so.
- Only a qualified operator should be permitted on the tractor when the implement is in operation. No riders should be allowed on the unit.
- Make certain everyone is clear before folding or unfolding the wings of the folding unit.
- Never allow anyone on the implement for any reason while tractor is running.
- Do not transport the implement on a public road unless the wings of the folding unit are in the transport position. Also, ensure that the slow moving vehicle emblem is in place.
- Carefully maintain control of the implement when traveling on roads. Avoid speeds over 8 MPH and take curves slowly.
- Stop the tractor engine before doing any maintenance or repairs to the unit.
- Use caution when working with the hydraulic system. Hydraulic fluid can be under extreme pressure and can cause infection or other serious personal injury.
- Avoid transporting near electrical lines when the wings of the folding unit are in the folded (up) position. Serious injury or death can result from contact with electrical lines. **USE EXTREME CARE!**
- Make sure your tractor front end has adequate counter-weight.



Failure to properly counter-balance the weight of the S-Tine Cultivator can cause the tractor to overturn resulting in severe injury or death. If you are unsure how much front-end weight to add, consult your dealer.

- Use caution when crossing ditches, levees, etc., or when using on uneven terrain.
- Never allow anyone to play on or around the implement.
- Baskets on the unit can roll and cause injury.
- Use extreme caution when changing bearings or plows. **WORN PLOWS CAN BECOME VERY SHARP.**
- Do not attempt to remove any obstruction while the unit is in operation.



SAFETY

Read and understand this manual and all safety signs before operating and maintaining. Review the safety instructions and precautions annually.

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.



THIS SYMBOL MEANS:

ATTENTION!

BECOME ALERT!



SAFETY SIGNAL WORDS

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



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



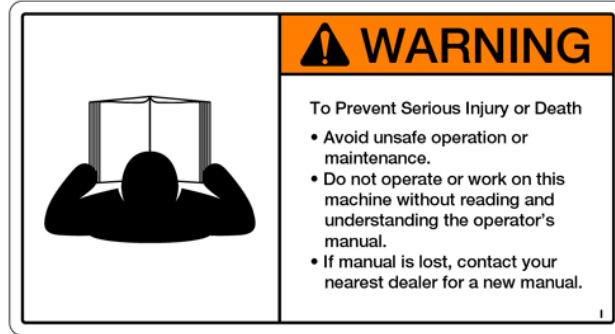
CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE is used to address safety practices not related to personal safety.





GENERAL SAFETY GUIDELINES



Safety of the operator and any bystanders is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not attempt to operate this equipment under the influence of drugs or alcohol. Do not use the equipment if alertness or coordination is impaired.

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.

Do not read, eat, drink, talk or text or use a mobile phone while using this equipment.

To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question – DO NOT TRY IT.

Stay clear of any moving parts, such as shafts, couplings and universal joints.

Do not allow anyone to ride on any part of the equipment for any reason.

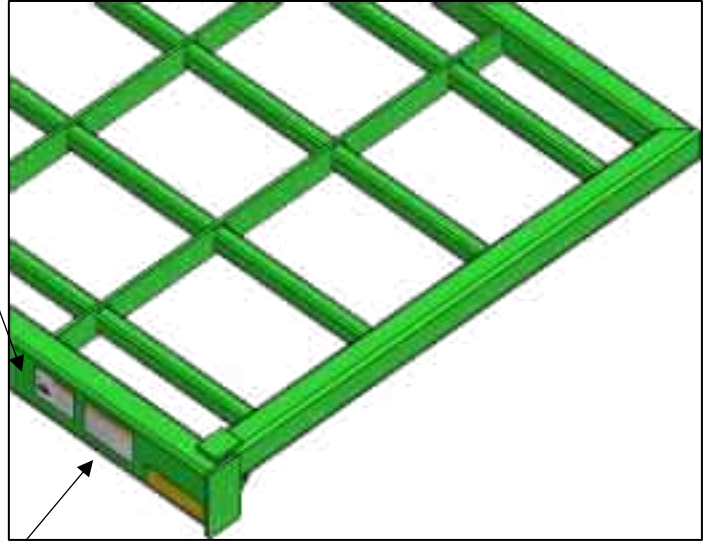
Assure that all bystanders are at a safe distance before operating or maintaining this equipment.



SAFETY SIGN LOCATIONS

Safety Sign location is shown below.

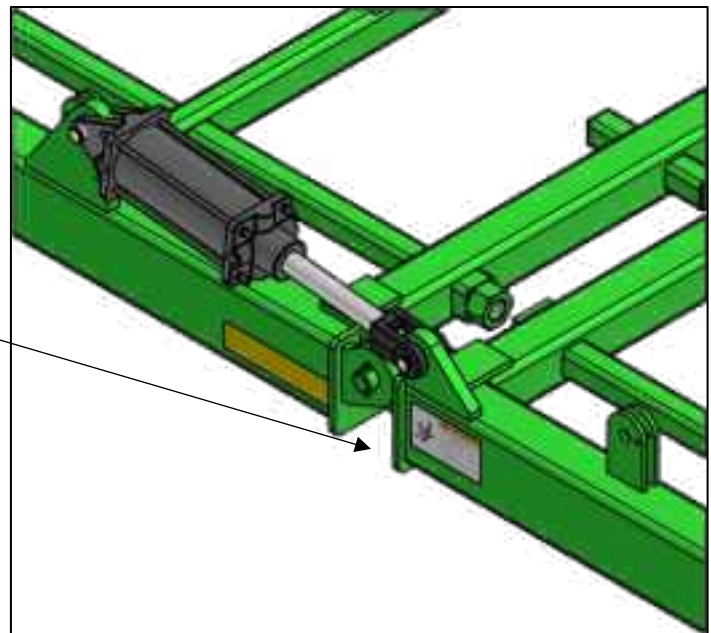
	WARNING
	<p>To Prevent Serious Injury or Death</p> <ul style="list-style-type: none"> • Avoid unsafe operation or maintenance. • Do not operate or work on this machine without reading and understanding the operator's manual. • If manual is lost, contact your nearest dealer for a new manual.




Front of Toolbar, End of LH Wing


WARNING	
<p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Read and understand operator's manual before using. Review all safety precautions annually. • Place all controls in neutral, stop tractor engine, set park brake and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging implement. • Do not allow riders. • Securely attach to towing unit using a hardened pin with a retainer and an auxiliary attaching device. • Be sure all guards and locks are in place before starting. • Keep hands, feet, hair, and clothing away from moving parts. • Be sure reflectors and SMV are visible before transporting. • Do not exceed a safe transport speed. • Use hazard flashers on tractor when transporting. • When repairing or servicing implement, refer to operator's manual. 	

	WARNING
	<p>FRAME PINCH POINT HAZARD KEEP AWAY</p> <p>To prevent serious injury or death from crushing:</p> <ul style="list-style-type: none"> • Stay away from frame hinge area when folding wings. • Keep others away. • Do not fold wings when bystanders are present.

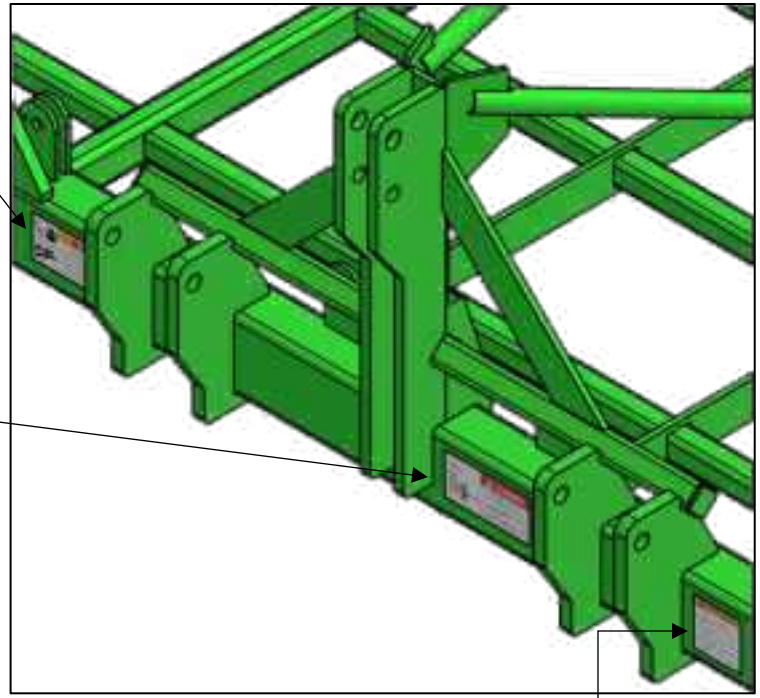


Front of Toolbar, LH Hinge


	⚠ WARNING
	<p>HIGH-PRESSURE FLUID HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Relieve pressure on hydraulic system before servicing or disconnecting hoses. • Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands. • Keep all components in good repair.

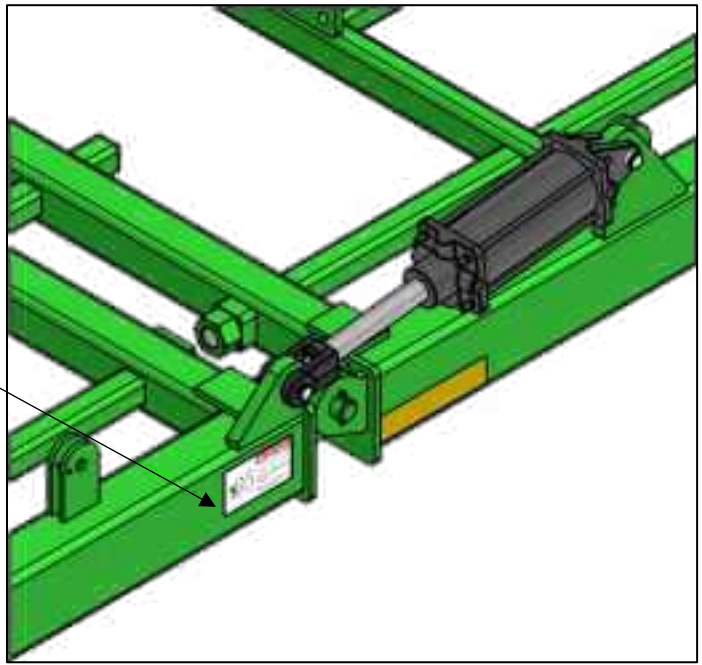
	⚠ DANGER
	<p>CRUSHING HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Do not stand between implement and moving tractor. • Stop tractor engine and set park brake before installing pins.

⚠ WARNING	
<p>MOVING PART HAZARD</p>	
<p>To prevent serious injury or death from moving parts:</p> <ul style="list-style-type: none"> • Close and secure guards and shields before starting. • Keep hand, feet, hair and clothing away from moving parts. • Disconnect and lockout power source before adjusting or servicing. • Do not stand or climb on machine when operating. 	

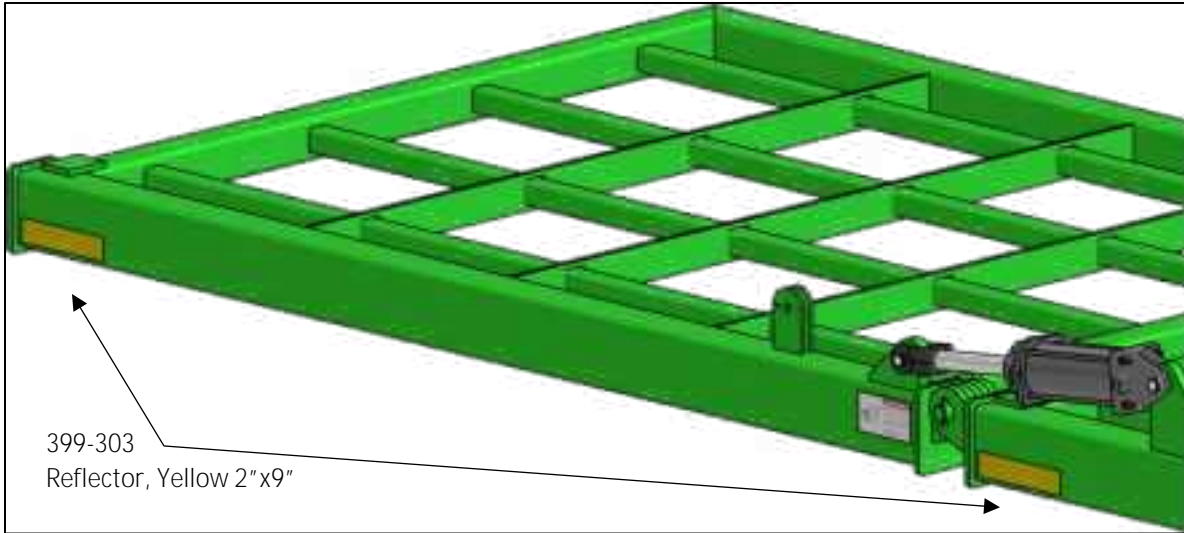


3-Point Hitch

	⚠ DANGER
	<p>ELECTROCUTION HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Stay away from power lines when transporting, extending or folding implement. • Electrocution can occur without contacting power lines.

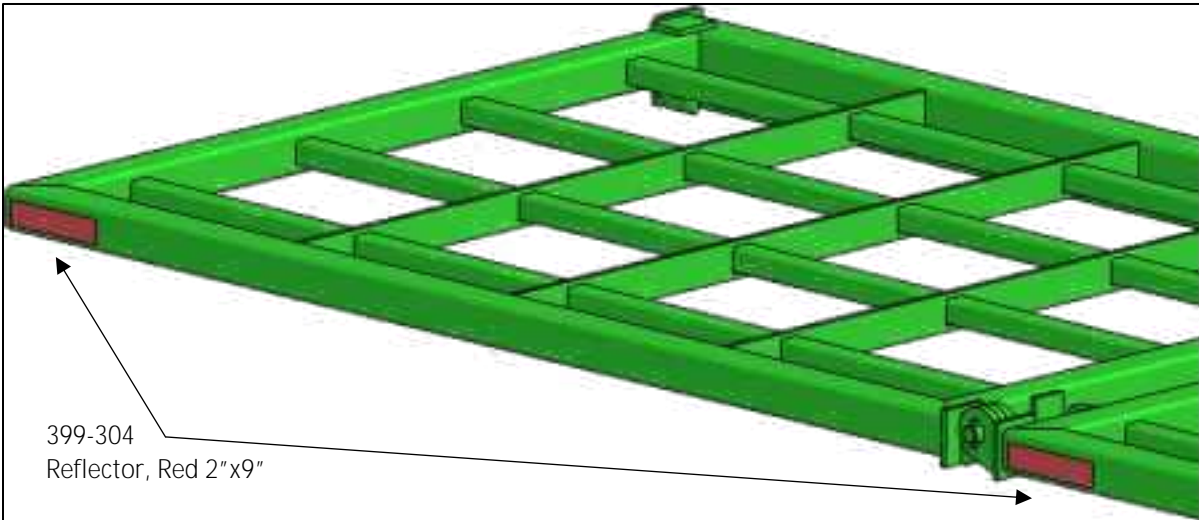


Front of Toolbar, RH Hinge



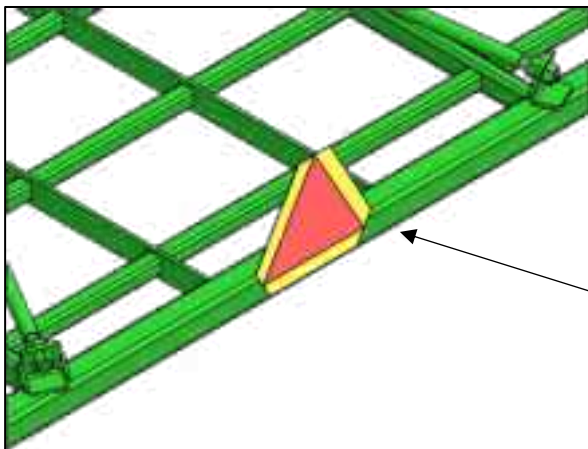
399-303
Reflector, Yellow 2"x9"

Front of Toolbar, End of Wing & Center



399-304
Reflector, Red 2"x9"

Rear of Toolbar, End of Wing & Center



399-300
Sign, SMV 2-Hole Galvanized

Rear of Toolbar, Center Frame

REMEMBER: If Safety Signs have been damaged, removed, become illegible or parts replaced without decals, new decals must be applied. New decals are available from your authorized distributor or factory.



SAFETY DECAL CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign should also display the current sign.
- Safety signs are available from your Distributor or Dealer Parts Department or the factory.

How to Install Safety Signs:

- 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.
- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



TIRE SAFETY



- Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
- Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
- Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.
- Tire changing can be dangerous and should be performed by trained personnel using the correct tools and equipment.

- When inflating tires, use a clip-on chuck extension hose long enough to allow you to stand to one side NOT in front of or over the tire assembly. Use a safety cage if available.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- The rims and tires should be mounted on the feeder with the valve stem to the inside. We use reverse disc rims as a protection that livestock do not step on the valve stems and break them off. Be sure you have proper tire pressure and the lug nuts are properly tightened. Check wheel bearings on a regular basis and grease semiannually.

 **WARNING**

Check following points each time before towing trailer.

- Make sure all parts, bolts and nuts are tight.
- Secure load to trailer - check tilt and the down mechanisms - use extra rope as a safety measure.
- Check tire air pressure when tire is cold.
- Repack wheel bearings once a year, preferably in the Fall before storing trailer.
- Make sure you are not exceeding trailer capacity.
- Make sure the coupler is securely latched to the hitch ball.
Check each time you stop & leave trailer.
- Cross safety chains under tongue and secure to towing vehicle.
If equipped, hook up break-away brake chain with slack to permit cornering.
- Make sure the trailer electrical connector is properly connected and all lights are operating.
- Check brake operation.
- Make sure the jack is raised to its highest position.
- Make sure all gates and latches are secured.



LIGHTING AND MARKING

- It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.
- Lighting kits ship standard with each unit from the Bigham factory.
- An SMV emblem ships standard on each unit from the Bigham factory. Always ensure the emblem is in place when transporting on public roadways. Keep it clean and bright.



PERSONAL PROTECTIVE EQUIPMENT



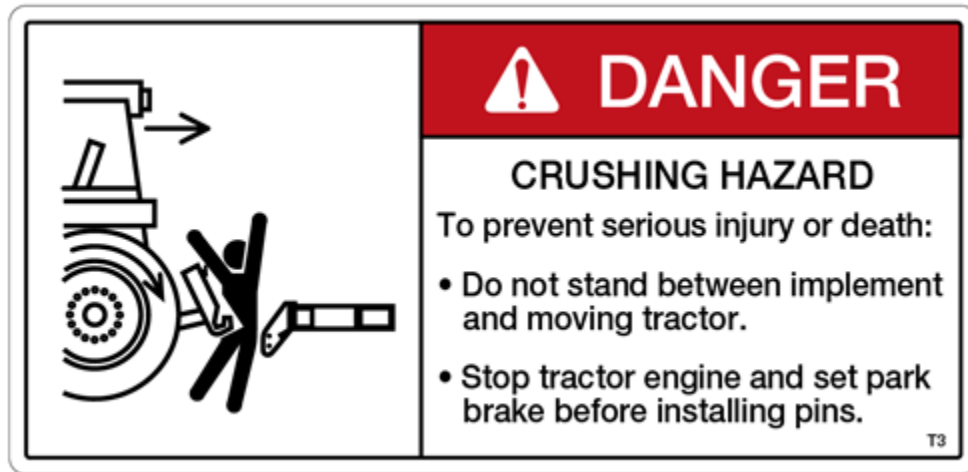
- Wear protective clothing and equipment appropriate for the job, such as safety shoes, safety glasses, hard hat and ear plugs.
- Clothing should fit snug without fringes or pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating equipment requires the operator's full attention. Avoid wearing radio headphones or earbuds while operating equipment.



BEFORE OPERATION

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- Keep wheel lug nuts or bolts tightened to specified torque.
- Assure that agricultural implement tires are inflated evenly.
- Give the unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
- Be sure that there are no tools lying on or in the equipment.
- Do not use the unit until you are sure that the area is clear, especially children and animals.
- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.

- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a tractor equipped with a Roll Over Protective System (ROPS) and fasten your seat belt prior to starting the engine.



DURING OPERATION

- Children should never be allowed on the equipment.
- Never carry riders or allow children to operate equipment.
- Clear the area of small children and bystanders before moving the equipment.
- Securely attach equipment to towing unit, using a hardened 3/4" pin, a metal retainer, and safety chains if required. Shift towing unit to a lower gear before going down steep downgrades, thus using the engine as a retarding force. Keep towing vehicle in gear at all times. Slow down for corners and rough terrain.
- Make sure you are in compliance with all local and state regulations regarding transporting equipment on public roads and highways. Lights and slow-moving signs must be clean and visible by overtaking or oncoming traffic when feeder is transported.
- SAFETY CHAIN - If equipment is going to be transported on a public highway, a safety chain should be obtained and installed. Always follow state and local regulations regarding a safety chain and auxiliary lighting when towing farm equipment on a public highway. Be sure to check with local law enforcement agencies for your own particular regulations. Only a safety chain (not an elastic or nylon/plastic tow strap) should be used to retain the connection between the towing and towed machines in the event of separation of the primary attaching system.
- Install the safety chain by crossing the chains under the tongue and secure to the draw bar cage or hitch or bumper frame.
- Beware of bystanders, particularly children! Always look around to make sure that it is safe to start the engine of the towing vehicle or move the unit. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.

- NO PASSENGERS ALLOWED - Do not carry passengers anywhere on, or in, the tractor or equipment, except as required for operation.
- Keep hands and clothing clear of moving parts.
- Always keep all shields and guards in place and securely fastened.
- Do not clean, lubricate or adjust your equipment while it is moving.
- When halting operation, even periodically, set the tractor or towing vehicle brakes, disengage the PTO, shut off the engine and remove the ignition key.
- Be especially observant of the operating area and terrain - watch for holes, rocks or other hidden hazards. Always inspect the area prior to operation.
 - DO NOT operate near the edge of drop-offs or banks.
 - DO NOT operate on steep slopes as overturn may result.
 - Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.



HIGHWAY AND TRANSPORT OPERATIONS

- Adopt safe driving practices:
 - Keep the brake pedals latched together at all times. NEVER USE INDEPENDENT BRAKING WITH MACHINE IN TOW AS LOSS OF CONTROL AND/OR UPSET OF UNIT CAN RESULT.
 - Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
 - Reduce speed prior to turns to avoid the risk of overturning.
 - Avoid sudden uphill turns on steep slopes.
 - Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
 - Do not drink and drive!
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. Various safety lights and devices are available from your dealer.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.

- When driving the tractor and equipment on the road or highway under 40 kph (20 mph) at night or during the day, use flashing amber warning lights and a slow-moving vehicle (SMV) identification emblem.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight as which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.
- Pick the most level possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.
- Be extra careful when working on inclines.
- Maneuver the tractor or towing vehicle at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose fill, rocks and holes; they can be dangerous for equipment operation or movement.
- Allow for unit length when making turns.
- Operate the towing vehicle from the operator's seat only.
- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.
- Never leave running equipment attachments unattended.
- As a precaution, always recheck the hardware on equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.



FOLLOWING OPERATION

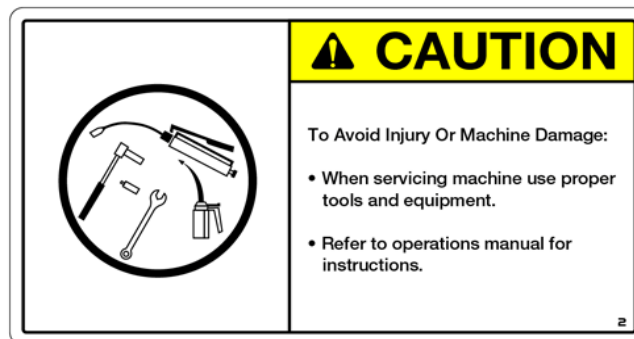
- Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and remove the ignition keys.
- Clean, inspect, service and make necessary repairs to the equipment when parking it for long periods of time or at the end of a working season. This will help ensure that the unit will be ready for use the next time you hook up to it.
- Store the unit in an area away from human activity.

- Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
- Do not permit children to play on or around the stored unit.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.
- Wheel chocks may be needed to prevent unit from rolling.



PERFORMING MAINTENANCE

- Do not allow anyone to perform maintenance on this equipment who has not been properly trained in its safe operation.



- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble. Proper servicing and adjustments are key to the long life of any implement. With careful inspection and routine maintenance, costly downtime and repairs can be avoided.
- Some parts and assemblies can be quite heavy. Before attempting to unfasten any part or assembly, arrange to support it by means of a hoist, by blocking or by use of an adequate arrangement to keep it from falling, tipping, swinging or moving in any manner which may hurt somebody or damage the equipment.
- Always use lifting equipment that is adequately rated to do the job. Never lift equipment over people.
- Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.

- Before working on the equipment, stop the towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and remove the ignition keys.
- Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.
- Always use a safety support and block the wheels. Never use a jack to support the equipment.
- Always use the proper tools or equipment for the job at hand.
- Use extreme caution when making adjustments.
- Never replace hex bolts with less than grade five bolts unless otherwise specified.
- After servicing, be sure all tools, parts and service equipment are removed.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
- Do not alter the equipment or replace parts with other brands. Doing so can cause the equipment to perform improperly and may lead to breakage causing bodily injury or death.



- If repairs require the use of a torch or electric welder, be sure that all flammable and combustible materials are removed.
- Do not weld or cut on any tank containing oil, fuel or their fumes or other flammable material, or any container whose previous contents are unknown.
- Cleaning solvents should be used with care. Petroleum based solvents are flammable and present a fire hazard. Don't use gasoline. All solvents must be used with adequate ventilation and their vapors should not be inhaled.

Operating Instructions

- Grease wing hinge pins and bearings daily.
- Extend the wings. Use care when folding and unfolding the wings. Make sure no one is close to the wings. **DO NOT** fold wings when close to any electrical lines. **DO NOT** try to extend or fold the wings while anyone is near the unit.
- Make sure the implement is slightly elevated before raising/lowering wings to ensure the rolling elements and plows do not hit the ground causing possible damage to the baskets, plows, shafts, and/or bearings.
- It is advisable to return the tractor to idle before folding the wings of the implement.
- The unit should run level, adjust rear basket height accordingly.
- Check hydraulic hoses and fittings for leaks and damage.
- Check all wheel lug nuts and spindle retainer bolts for proper tightness.
- Replace 3-point linkage pins with only original Bigham linkage pins. NEVER substitute with other 3-point linkage pins.
- All 3-point linkage pins should be properly secured before attempting to transport the implement.

WHEN ATTACHING QUICK HITCH



Top pin is for stability purposes only and must have sufficient clearance for lower pins to carry weight. If sufficient clearance is not allowed, tractor damage, implement damage or personal injury may occur!!!

Tractor Hook-Up Remove or slide the tractor drawbar to one side before hooking the implement to the tractor. The unit has three point linkage hook-up for Cat. 3/4N tractors.



CHECK FOR SUFFICIENT CLEARNACE BETWEEN REAR TRACTOR TIRES AND UNIT.

- Raise and lower the unit slowly with the tractor to check front end stability of the tractor before transporting the unit. Raise and lower the wings before transporting.

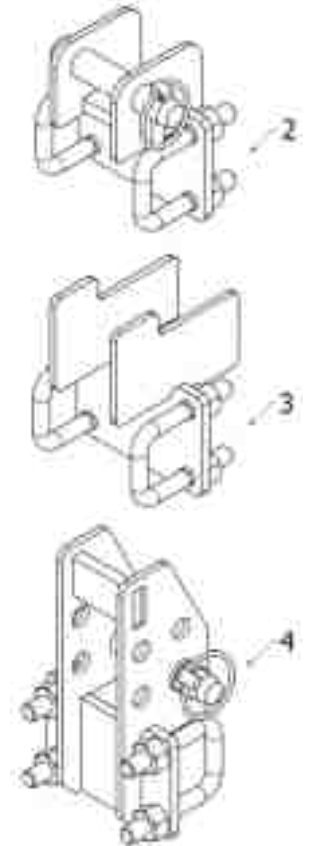
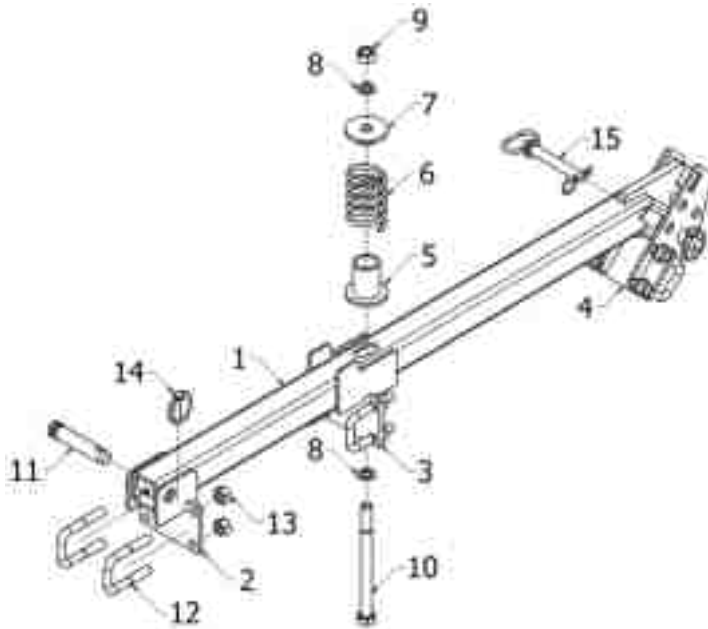


Always check your three point linkage pins connecting the S-Tine Cultivator to the tractor to make sure they are properly secured and not damaged. Failure to properly secure the three point linkage pins could result in serious injury to the operator or damage to the tractor or unit.

Linkage Assembly

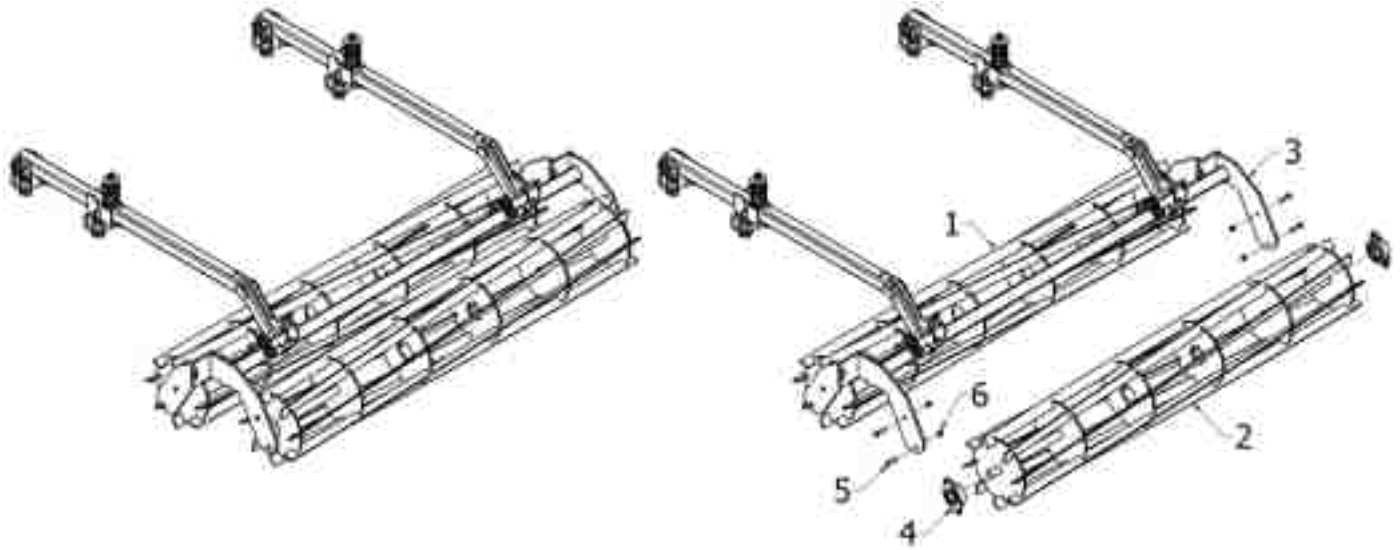
Each tumbler linkage assembly is equipped with a heavy duty spring that can be adjusted for vertical basket flexibility. To tighten the spring tension, turn lock nut clockwise; to loosen, turn counterclockwise.

Grease linkage arms daily.



Part #	Description	Item
1	D685-017	Linkage Arm Weldment, ST
2	D685-011	2x2 Bracket Weldment, Walking
3	D685-014	Spring Bracket, 2x2
4	D685-018	Bracket Wldmnt, ST Linkage Arm End
5	H685-206	Spring Bushing Wldmnt, Tall
6	H633-400	Spring, Top Auger
7	H685-205	Spring Bushing Ass'y, HC
8	616-1200Z	Washer, Flat 3/4" ZP
9	611-1201Z	Nut, Hex ZP
10	602-1240Z	Bolt, HCS 3/4 x 9.5" GR5 ZP
11	617-164	HC Linkage Pin
12	610-0010	U-Bolt, 5/8 for 2x2 Bar
13	613-1001Z	Nut, Lock 5/8 Nylock
14		
15	H617-003	Pin, Clevis 3/4 x 4-1/4" Usable
Complete	D685-004	Linkage Arm Ass'y, ST

Rear Tumbler Basket Assembly



Item	Part #	Description
1	See Table 7	Rear Basket, Flat Bar RH Twist
2	See Table 8	Rear Basket, Flat Bar LH Twist
3	See Table 9	A-Frame Weldment
4	622-084	Bearing Flange, 1-1/2" 2-Bolt
4 Alternate	622-086	<i>Bearing, Flange 1-1/2" 2 Bolt Triple Seal</i>
5	602-0808Z	Bolt, HCS 1/2 x 2.0" GR 5 ZP
6	613-0800Z	Nut, Hex 1/2 Nylock ZP

Table 7 – Rear Baskets, Flat Bar RH Twist

	Center	Wing
ST38FX	D785-274 (119.5")	D785-275(103.0")
ST26F	D785-284 (70.5")	D785-285 (85.5")
ST10	D785-274 (119.5")	N/A
ST9	D785-288 (106.5")	N/A

Table 8 – Rear Baskets, Flat Bar LH Twist

	Center	Wing
ST38FX	D785-274-LH (119.5")	D785-275-LH (103.0")
ST26F	D785-284-LH (70.5")	D785-285-LH (85.5")
ST10	D785-274-LH (119.5")	N/A
ST9	D785-288-LH (106.5")	N/A

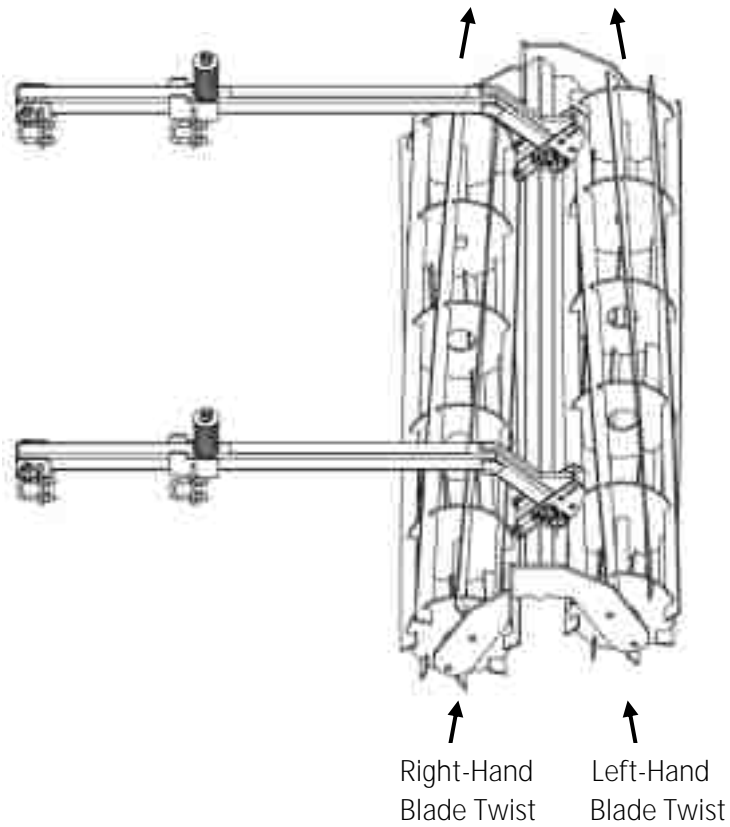


Table 9 – A-Frame Weldments

	Center	Wing
ST38FX	D785-272 (120.5")	D785-273 (104.0")
ST26F	D785-282 (71.5")	D785-283 (86.5")
ST10	D785-272R (120.5")	N/A
ST9	D785-278 (107.5")	N/A

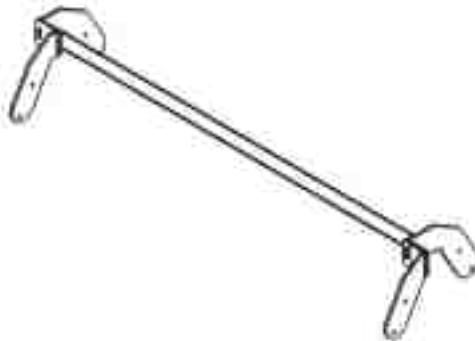
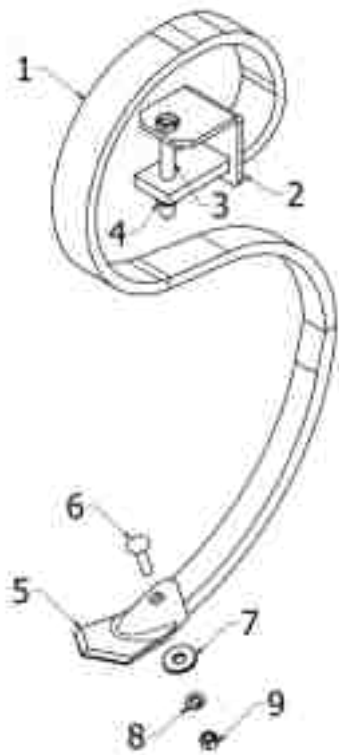


Table 10 – Rear Tumbler Assemblies, Double - Includes Double Flat Bar Baskets

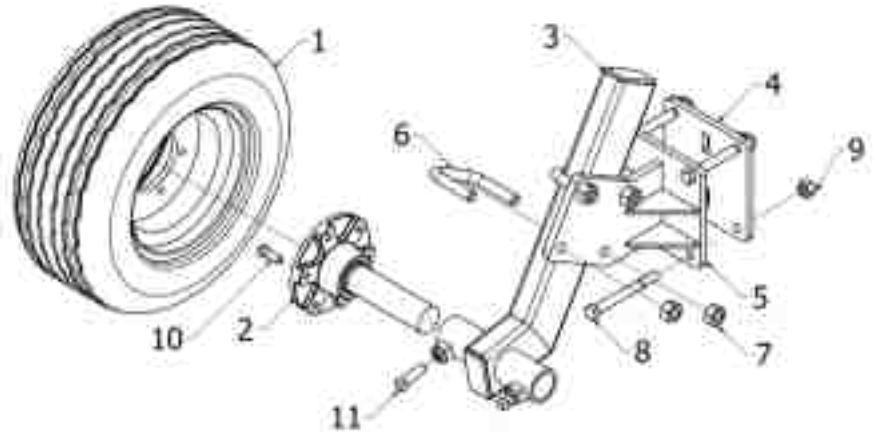
	Center	Wing
ST38FX	D785-276	D785-277
ST26F	D785-286	D785-287
ST10	D785-276	N/A
ST9	D785-278	N/A

Plow Assemblies



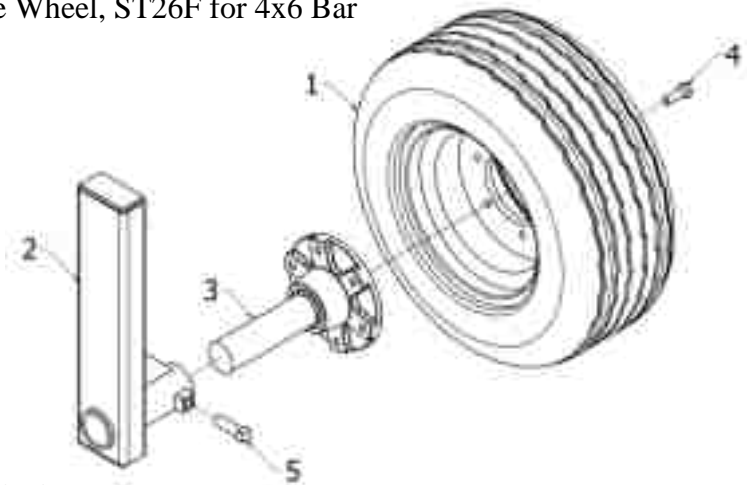
Item	Part #	Description
1	631-099HD	Shank, S-Tine Heavy Duty
2	D709-011	2x2 Toolbar Clamp, 1-3/4 ST
3	602-0814Z	Bolt, Hex 1/2 x 3-1/2 GR5 ZP
4	613-0800Z	Nut, Lock 1/2 Nylock
5	630-402	Sweep, 2-3/4" for S-Tine
6	608-0609Z	Bolt, Elliptic 3/8 x 1-3/4
7	616-0600Z	Washer, 3/8 Flat
8	615-0600Z	Washer, 3/8 Lock
9	611-0601Z	Nut, 3/8 Hex
Complete	D870-002	S-Tine Assembly, 19.75" for 2x2 Bar, 2-3/4" Sweep

Gauge Wheel Assemblies – ST26F / Rigid Models



Item	Part #	Description
1	705-006	Wheel & Tire, 6 Hole 20.5 x 8.0 - 10
2	627-161	Spindle & Hub Assembly, Gauge Wheel
3	D705-002	ST Gauge Wheel Arm Weldment
4	D310-347	Plate, 4-bolt for ST Gauge Wheel
5	D705-004	GW Mount Weldment, ST26F
6	610-0037	U-Bolt, 3/4" for 4"x2" GR5 ZP
7	613-1200Z	Nut, Hex Nylock ZP 3/4"
8	602-1026Z	Bolt, HCS 5/8"x6-1/2" (GR5) ZP
9	613-1005Z	Nut, Hex Nylock ZP 5/8"
10	607-0805P	Bolt, Lug 1/2 x 1.25
11	606-1008Z	Set Screw, Square Head HD ZP 5/8 x 2"

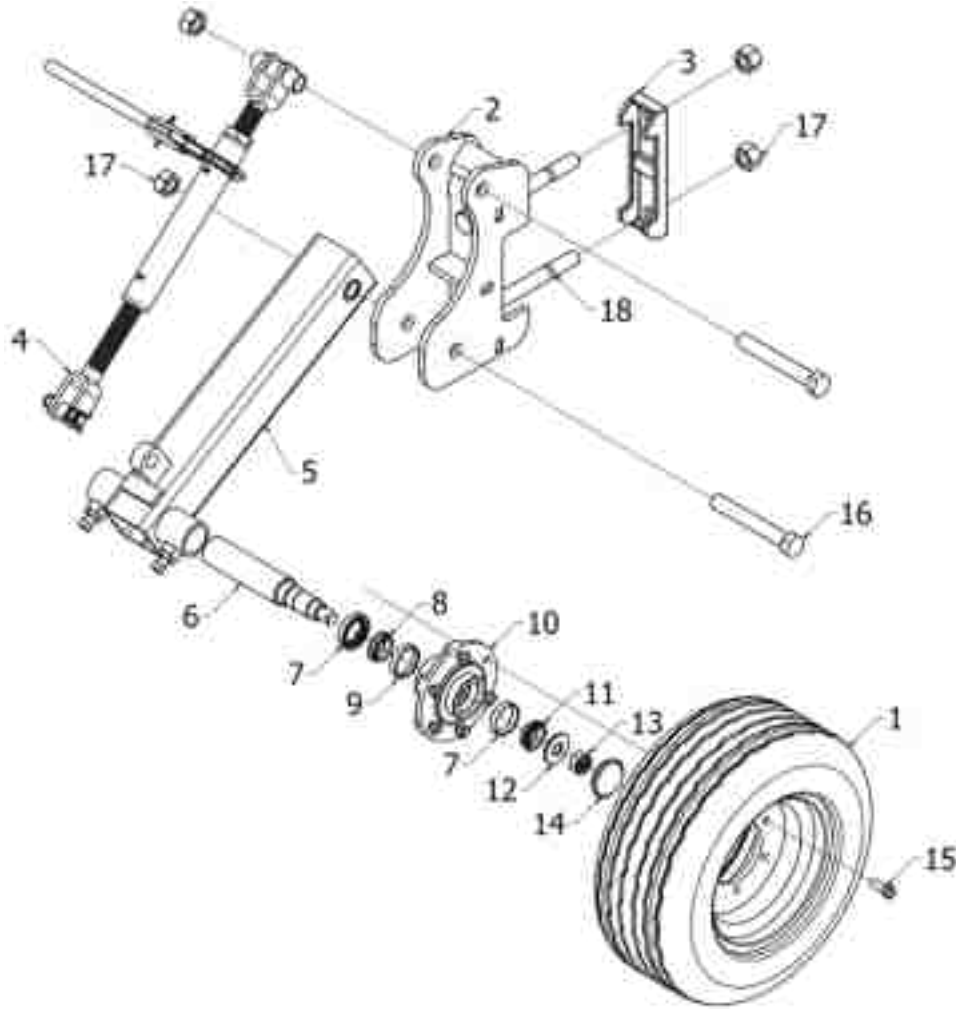
Complete D805-002 Gauge Wheel, ST26F for 4x6 Bar



Item	Part #	Description
1	705-006	Wheel & Tire, 6 Hole 20.5 x 8.0 - 10
2	D705-001	ST26 Gauge Wheel Arm Weldment
3	627-161	Spindle & Hub Assembly, Gauge Wheel
4	607-0805P	Bolt, Lug 1/2 x 1.25
5	606-1008Z	Set Screw, Square Head HD ZP 5/8 x 2"

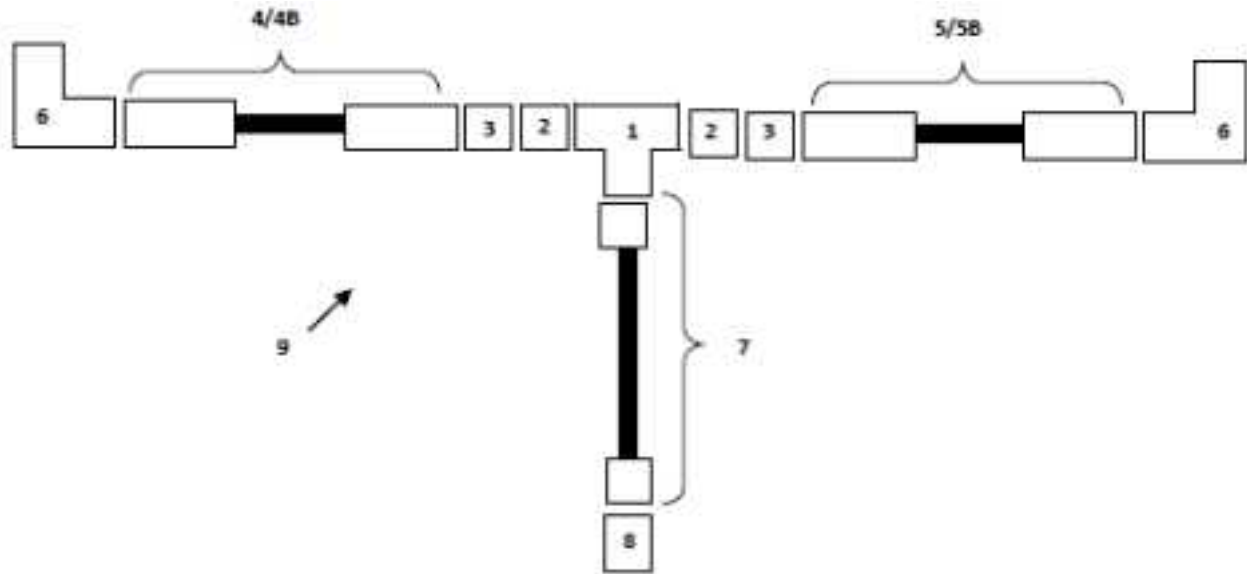
Complete D805-001 Gauge Wheel Assembly ST26F, ST10
 Complete D805-001R Gauge Wheel Assembly ST9

Gauge Wheel Assembly – ST38FX



Item	Part #	Description
1	627-567	Tire, 11L x 15" Mounted
2	705-064	Bracket, GW 7" High-Clearance
3	628-308	Cap, 7" Bar, 1" Bolt Hole
4	705-083	Turnbuckle, GW
5	705-029	Shank, 24" Universal GW
6	627-264	888 Spindle ONLY
7	623-002	Seal, 888
8	622-009	Bearing, Inner Cone 888
9	622-006	Cup, Outer 888
10	627-159	888 Hub
11	622-007	Bearing, Outer Cone 888
12	616-1400	Bushing, 2.25 OD x .935 ID x .165
13	614-1407	Nut, Spindle 888
14	627-560	Hub Cap, 888
15	607-0805P	Bolt, Lug 1/2 x 1.25
16	602-1628Z	Bolt, 1" x 7" Zinc
17	611-1601Z	Nut, 1" Zinc
18	609-1640Z	Bolt, 1" x 10" Zinc

Hydraulic Assembly



ST38FX

Item	Part #	Description
1	621-118	Fitting, Tee 8MJ
2	621-105	Nut, 3-Piece 1/2"
3	621-104	Reducer, 8FJ to 6MJ
4	D621-045	1/4" Cylinder Line Assembly, 45" Length
4B	D621-095	1/4" Cylinder Line Assembly, 95" Length
5	D621-050	1/4" Cylinder Line Assembly, 50" Length
5B	D621-100	1/4" Cylinder Line Assembly, 100" Length
6	621-054	3/8" MJIC x 1/2" Male 90Deg Elbow
7	D621-060	1/2" Line Assembly, 60" Length
8	H621-145	Hydraulic Coupling, Quick Disconnect
9	D621-001	Hydraulic Assembly, Complete

ST26F

Item	Part #	Description
1	621-118	Fitting, Tee 8MJ
2	621-105	Nut, 3-Piece 1/2"
3	621-104	Reducer, 8FJ to 6MJ
4	D621-045	1/4" Cylinder Line Assembly, 45" Length
4B	D621-061	1/4" Cylinder Line Assembly, 60" Length
5	D621-050	1/4" Cylinder Line Assembly, 50" Length
5B	D621-075	1/4" Cylinder Line Assembly, 75" Length
6	621-054	3/8" MJIC x 1/2" Male 90DEG Elbow
7	D621-060	1/2" Line Assembly, 60" Length
8	H621-145	Hydraulic Coupling, Quick Disconnect
9	D621-002	Hydraulic Assembly, Complete ST26F

Quick Reference Parts List

Gauge Wheels

D855-790	High Clearance Gauge Wheel Assembly	(ST38FX)
627-567	Tire, 11Lx 15" Mounted	(ST38FX)
D805-001	Gauge Wheel Assembly, ST	(ST26F/Rigid Models)
D805-002	Gauge Wheel, ST26 FOR 4x6	(ST26F/Rigid Models)
705-006	Wheel & Tire, 6 Hole 20.5 x 8-10	(ST26F/Rigid Models)
627-161	Spindle & Hub Ass'y, Gauge Wheel	

Bearings

622-084	Bearing, Flange 1.50" 2-Bolt	
622-086	Bearing, Flange 1.50" 2-Bolt Triple Seal	<i>Alternative</i>

Cylinders

619-420	Cylinder, Hydraulic 4 x 48" Tie Rod	(ST38FX)
H619-408	Cylinder, Hydraulic 4 x 8" Tie Rod	(ST26F)
617-188	Pin, Clevis 1.00 x 4.44 Effective Length	(ST38FX)
617-0053	Pin, Roll 7/16 x 2.25	

Hitch Pins

H617-196C	Hitch Pin, Lower	(ST38FX)
H312-404	Bushing, CAT3 to CAT4	(ST38FX)
H617-190C	Hitch Pin, CAT3	(ST38FX)
D617-193	Pin, Clevis CAT2/3 Bottom 7-1/8 Useable	(ST26F/Rigid Models)
D617-164	Pin, Clevis CAT2 Top Link	(ST26F/Rigid Models)
D617-190	Pin, Clevis CAT3 Top BP/SC	(ST26F/Rigid Models)
D617-194	Bushing, CAT3-2 Lift Arm 3.25"	(ST26F/Rigid Models)

Hinge Pins

D617-300C	Pin, Clevis 1-7/16" x 4-1/2" Useable	(ST26F)
D617-301C	Pin, Clevis 1-7/16" x 2-3/4" Useable	(ST26F)
617-184	Pin, Hitch Red Handle 1 x 7.5"	(ST38FX)

Clamps

D709-011	2x2 Toolbar Clamp, 1-3/4 ST	
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Plow Assemblies

D870-002	S-Tine Assembly, 19.75" for 2x2 Bar	
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Hydraulic Assembly

D621-001	Hydraulic Assembly, BedPrep/ST	(ST38FX)
D621-002	Hydraulic Assembly, Complete	(ST26F)

Rear Wing Support Assembly

D636-001	Wing Support	(ST38FX)
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