

Farm King

OPERATOR AND PARTS MANUAL

Grain Cart

Model 1060 and 1360

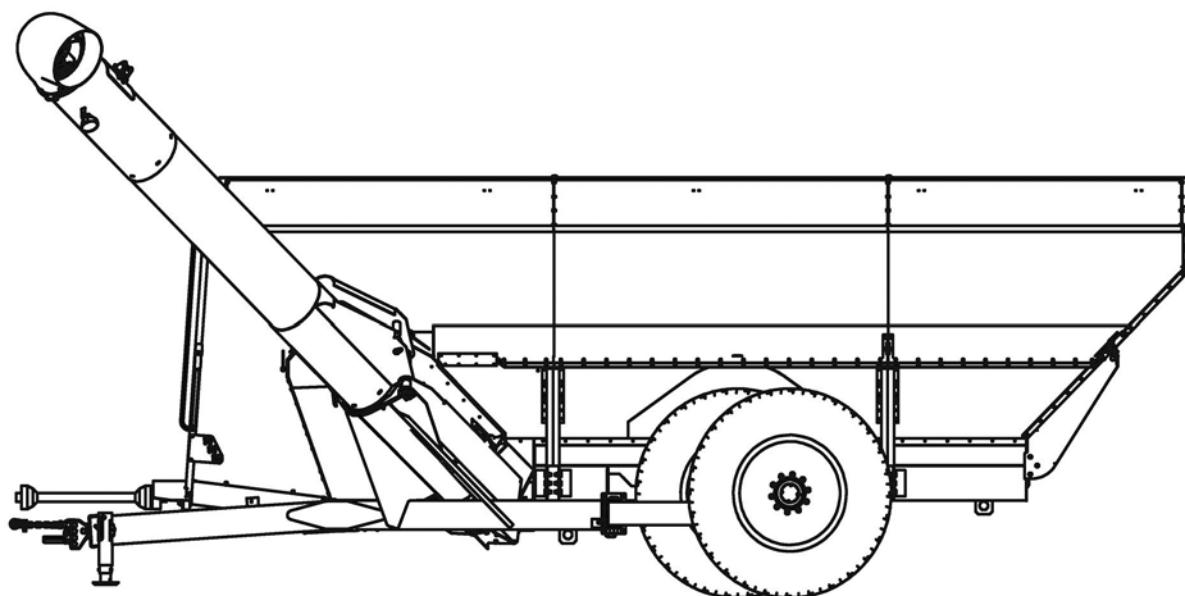


TABLE OF CONTENTS

Manufacturer's Statement: For technical reasons, Buhler Industries Inc. reserves the right to modify machinery design and specifications provided herein without any preliminary notice. Information provided herein is of descriptive nature. Performance quality may depend on soil fertility, applied agricultural techniques, weather conditions and other factors.

INTRODUCTION	5
SAFETY	9
OPERATION	23
MAINTENANCE	37
PARTS IDENTIFICATION	51
SPECIFICATIONS	99
WARRANTY	109
ALPHABETICAL INDEX	113

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WARRANTY REGISTRATION FORM

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery.

Customer Name:

Dealer Name:

Customer Address:

Dealer Address:

City:

Prov / State:

City:

Prov / State:

Postal / Zip Code:

Phone:

Postal / Zip Code:

Phone:

Grain Cart Model:

Serial Number:

Delivery Date:

I have thoroughly instructed the buyer on the above described equipment which review included the Operator's Manual content, equipment care, adjustments, safe operation and applicable warranty policy.

Dealer Inspection Report

☐	Bearings Turn Freely
☐	Belt Tension Checked
☐	Check Oil Level In Auger Drive Gear Box
☐	Pulleys Aligned
☐	Fasteners Tight
☐	Lubricate Machine
☐	Check Tire Pressure
☐	Unloading Auger Folds / Extends Freely

Safety

☐	All Lights And Reflectors Installed
☐	All Lights And Reflectors Cleaned And Working
☐	Safety Chain On Hitch
☐	All Decals Installed
☐	Guards And Shields Installed And Secure
☐	Review Operating And Safety Instructions
☐	Check For Hydraulic Leaks

Date:

Dealer Rep. Signature:

The above equipment and Operator's And Parts Manual have been received by me and I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date:

Customer / Owner's Signature:

Remove this Warranty Registration Form from the Operator's And Parts Manual. Make two copies of the form. Send original Warranty Registration Form to Farm King. Give one copy to the customer and the dealer will keep one copy.

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INTRODUCTION

This Operator's and Parts Manual was written to give the owner / operator instructions on the safe operation, maintenance and part identification of the Farm King equipment. READ AND UNDERSTAND THIS OPERATOR'S AND PARTS MANUAL BEFORE OPERATING YOUR FARM KING EQUIPMENT. If you have any questions, see your Farm King dealer. This manual may illustrate options and accessories not installed on your Farm King equipment.

OWNER'S INFORMATION	7
Serial Number Location	7
Manual Storage	7
EQUIPMENT IDENTIFICATION	8
Component Location	8

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OWNER'S INFORMATION

Thank you for your decision to purchase a Farm King 1060 / 1360 Grain Cart. To ensure maximum performance of your equipment, it is mandatory that you thoroughly study the Operator's and Parts Manual and follow the recommendations. Proper operation and maintenance are essential to maximize equipment life and prevent personal injury.

Operate and maintain this equipment in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and / or laws. Follow all on-product labeling and instructions.

Make sure that all personnel have read this Operator and Parts Manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

Farm King is continually working to improve its products. Farm King reserves the right to make any improvements or changes as deemed practical and possible without incurring any responsibility or obligation to make any changes or additions to equipment sold previously.

Although great care has been taken to ensure the accuracy of this publication, Farm King, makes no warranty or guarantee of any kind, written or expressed, implied or otherwise with regard to the information contained within this manual. Farm King assumes no responsibility for any errors that may appear in this manual and shall not be liable under any circumstances for incidental, consequential or punitive damages in connection with, or arising from the use of this manual.

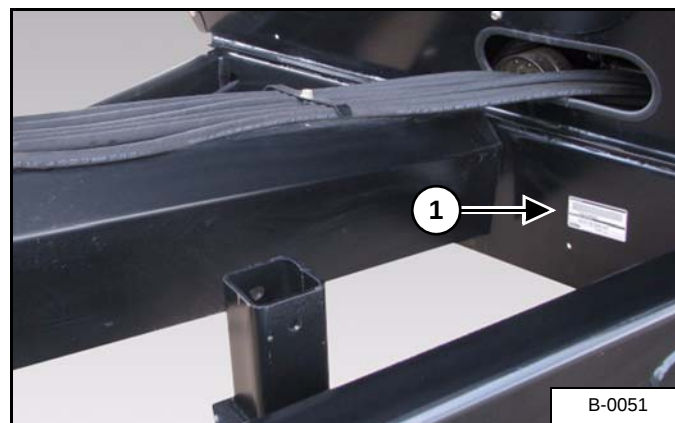
Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your Farm King Dealer if you need assistance, information, or additional copies of the manual. Visit our website at www.farm-king.com for a complete list of dealers in your area.

The directions left, right, front and rear, as mentioned throughout this manual, are as viewed from the rear of the equipment.

Serial Number Location

Please enter the model and serial number in the space provided for easy reference.

Figure 1



Model Number: _____

Serial Number: _____

The serial number plate (Item 1) **[Figure 1]** is located on the front left of the lower frame.

Always use your serial number when requesting information or when ordering parts.

Manual Storage

Figure 2



The operator's and parts manual and other documents can be stored in the canister (Item 1) **[Figure 2]** located on the left side of the ladder.

EQUIPMENT IDENTIFICATION

Component Location



SAFETY

SAFETY INSTRUCTIONS	11
Safe Operation Is The Operator's Responsibility	11
Safe Operation Needs A Qualified Operator	11
Use Safety Rules	12
Transport Safety	12
Safety Rules For Power Take-Off (PTO) Driven Equipment	13
Machine Requirements And Capabilities	13
FIRE PREVENTION	14
Maintenance	14
Operation	14
Starting	14
Electrical	14
Hydraulic System	14
Fueling	14
Spark Arrester Exhaust System	14
Welding And Grinding	15
Fire Extinguishers	15
SAFETY SIGNS (DECALS)	16
EQUIPMENT DECALS AND SIGNS	19
SAFETY SIGN-OFF FORM	21

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SAFETY INSTRUCTIONS

Safe Operation Is The Operator's Responsibility

	Safety Alert Symbol
This symbol with a warning statement means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.	



The signal word **CAUTION** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



The signal word **DANGER** on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.



The signal word **WARNING** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



This notice identifies procedures which must be followed to avoid damage to the machine.

Safe Operation Needs A Qualified Operator



Operators must have instructions before operating the machine. Untrained operators can cause injury or death.

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Farm King include the Warranty Registration, Dealer Inspection Report, Operator's and Parts Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by the machine owner prior to operation.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine safely under all conditions of the work area. Always fasten seat belt before operating.

Know the Work Conditions

- Clear working area of all bystanders, especially small children and all obstacles that might be hooked or snagged, causing injury or damage.
- Know the location of any overhead or underground power lines. Call local utilities and have all underground power lines marked prior to operation.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service.

SAFETY INSTRUCTIONS (CONT'D)**Use Safety Rules**

- Read and follow instructions in this manual and the tractor's Operators Manual before operating.
- Under no circumstances should young children be allowed to work with this equipment.
- This equipment is dangerous to children and persons unfamiliar with its operation.
- If the elderly are assisting with work, their physical limitations need to be recognized and accommodated.
- Stay clear of overhead power lines when unloading auger is extended. Electrocution can occur without direct contact.
- Check for overhead and / or underground lines before operating equipment (if applicable).
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
- Check that the equipment is securely fastened to the tractor / towing vehicle.
- Make sure all the machine controls are in the NEUTRAL position before starting the machine.
- Operate the equipment only from the operator's position.
- Operate the equipment according to the Operator's and Parts Manual.
- When learning to operate the equipment, do it at a slow rate in an area clear of bystanders, especially small children.
- DO NOT permit personnel to be in the work area when operating the equipment.
- The equipment must be used ONLY on approved tractors / transport vehicles.
- DO NOT modify the equipment in any way. Unauthorized modification may impair the function and / or safety and could affect the life of the equipment.
- DO NOT make any adjustments or repairs on the equipment while the machine is running.
- Keep shields and guards in place. Replace if damaged.

Transport Safety

- Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
- Comply with state and local laws governing highway safety and movement of machinery on public roads.
- 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.
- Always install transport locks, pins or brackets before transporting.
- Always yield to oncoming traffic in all situations and move to the side of the road so any following traffic may pass.
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either tractor or equipment.
- Keep tractor / towing vehicle in a lower gear at all times when traveling down steep grades.
- Maintain proper brake settings at all times (if equipped).
- Stay away from overhead power lines when unloading auger is extended. Electrocution can occur without direct contact.

Safety Rules For Power Take-Off (PTO) Driven Equipment

- Keep PTO shields and all guards in place. Replace damaged or missing shields and guards before operating.
- Follow warnings and instructions on machine signs (decals). Replace damaged or missing decals.
- Do not wear loose or bulky clothing around the PTO or other moving parts.
- Keep bystanders away from PTO driven equipment, and never allow children near machines.
- Read and understand the manuals for the PTO driven equipment and be aware of safe operating procedures and hazards that may not be readily apparent.
- Always walk around equipment to avoid coming near a turning PTO driveline. Stepping over, leaning across or crawling under a turning PTO driveline can cause entanglement.
- Position the machine and equipment hitch correctly to prevent driveline stress and separation.
- Use caution when turning. Turning too sharp can cause driveline damage.
- Use caution when raising PTO driven attachment. Excessive driveline angle can cause driveline damage. Use stops if needed.
- Use increased caution on slopes and near banks and ditches to prevent overturn.
- Make certain that the Slow Moving Vehicle (SMV) emblem is installed so that it is visible and legible. When transporting the equipment, use the flashing warning lights (if equipped) and follow all local regulations.
- Operate this equipment with a machine equipped with an approved Roll-Over Protective Structure (ROPS). Always wear seat belt when the ROPS is up. Serious injury or death could result from falling off the machine.
- Before leaving the operator's position:
 1. Always park on a flat level surface.
 2. Place all controls in neutral.
 3. Engage the parking brake.
 4. Stop engine.
 5. Wait for all moving parts to stop.
- Carry passengers only in designated seating areas. Never allow riders on the machine or equipment. Falling off can result in serious injury or death.
- Start the equipment only when properly seated in the operator's seat. Starting a machine in gear can result in serious injury or death.
- Operate the machine and equipment from the operator's position only.
- The parking brake must be engaged before leaving the operator's seat. Rollaway can occur because the transmission may not prevent machine movement.

Machine Requirements And Capabilities

- Fasten seat belt securely. If equipped with a foldable Roll-Over Protective Structure (ROPS), only fasten seat belt when ROPS is up and locked. DO NOT wear seat belt if ROPS is down.
- Machine's three-point hitch must be equipped with sway bars or chains.
- Stop the machine and engage the parking brake. Install blocks in front of and behind the rear tires of the machine. Install blocks underneath and support the equipment securely before working under raised equipment.
- Keep bystanders clear of moving parts and the work area. Keep children away.

FIRE PREVENTION**Maintenance**

The machine and some equipment have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolant mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

The Farm King machine must be in good operating condition before use.

Check all of the items listed on the service schedule under the 8 hour column. (See "SERVICE SCHEDULE" on page 41.)

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the tractor's operator's manual for connecting the battery and for jump starting.

Electrical

Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling

Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Spark Arrester Exhaust System

The spark arrester exhaust system is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

Check the spark arrester exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the machine's Operator's Manual for cleaning the spark arrester muffler (if equipped).

FIRE PREVENTION (CONT'D)**Welding And Grinding**

Always clean the machine and equipment, disconnect the battery, and disconnect the wiring from the machine controls before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding.

Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.

Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

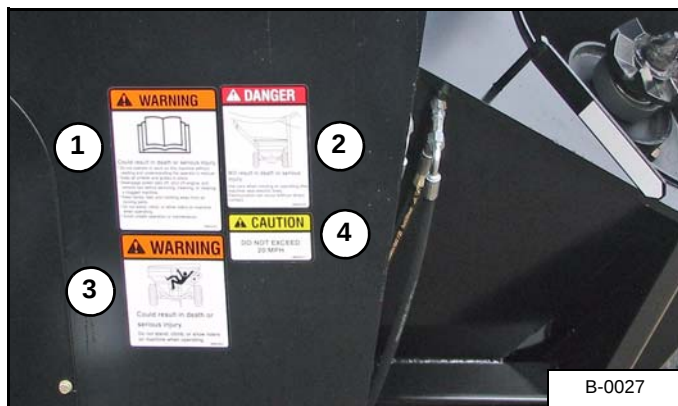
Fire Extinguishers

Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

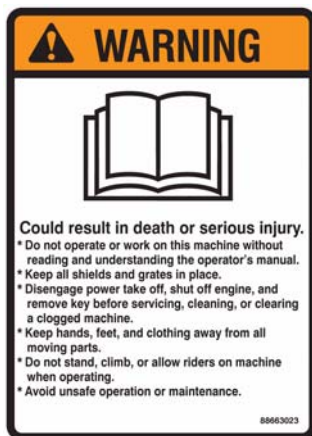
SAFETY SIGNS (DECALS)

Follow the instructions on all the Signs (Decals) that are on the equipment. Replace any damaged signs (decals) and be sure they are in the correct locations. Equipment signs are available from your Farm King equipment dealer.

Front Corner Of Grain Bin



Unload Auger



p/n 88663023



p/n 88663020



p/n 88663026



p/n 88663016



p/n 88663022



p/n 88663017

Main PTO Driveline

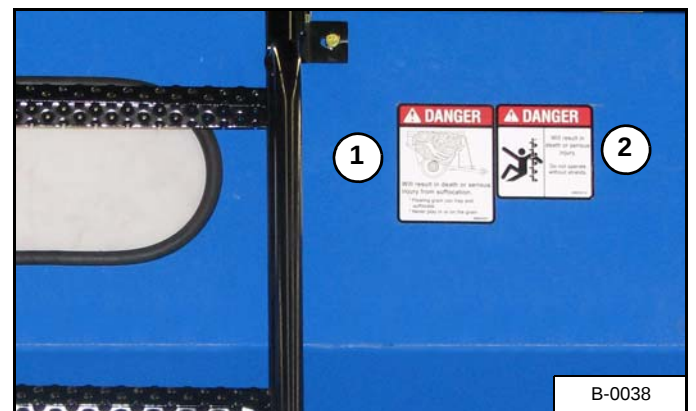


Decal # 88661274 is located on the actual drive shaft under the plastic guard.

Main PTO Driveline (Under guard at rear of driveline)



Front / Top Of Bin (Right of the ladder)



Belt Drive Assembly



p/n 88663025

Inside RH Door Shield



p/n 88663015

Gearbox PTO Driveline



p/n 88661272



p/n 88661274

Decal # 88661274 is located on the actual drive shaft under the plastic guard.

Front Drive Shaft (Under guard behind PTO Driveline)



p/n 88663014

EQUIPMENT DECALS AND SIGNS

NOTE: All safety related decals are shown in the Safety Signs Section. (See "SAFETY SIGNS (DECALS)" on page 16.)

Check and replace any worn, torn, hard to read or missing decals on your equipment.

Part Number 88663100



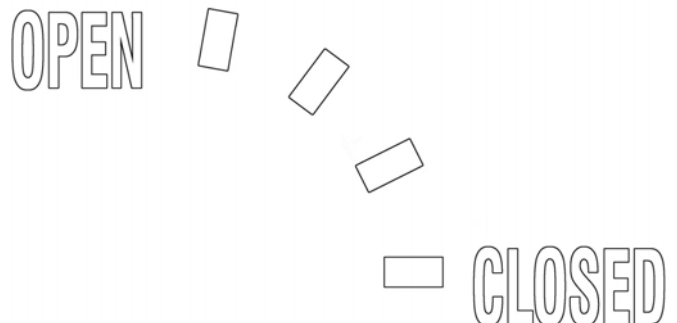
Part Number 8866310



Part Number 88663102



Part Number 88663103



Part Number 88662287 (Left Side)
Part Number 88665644 (Left Side) (Black)

1060

Part Number 88662288 (Right Side)
Part Number 88665645 (Right Side) (Black)

1060

Part Number 88662289 (Left Side)
Part Number 88665646 (Left Side) (Black)

1360

Part Number 88662290 (Right Side)
Part Number 88665647 (Right Side) (Black)

1360

Part Number 88662291 (Left Side)
Part Number 88665648 (Left Side) (Black)

Part Number 88662292 (Right Side)
Part Number 88665649 (Right Side) (Black)

Part Number 88662293 (Left Side)
Part Number 88665650 (Left Side) (Black)

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Part Number 88662294 (Right Side)
Part Number 88665651 (Right Side) (Black)

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Part Number 88662295 (Rear)
Part Number 88665652 (Rear) (Black)

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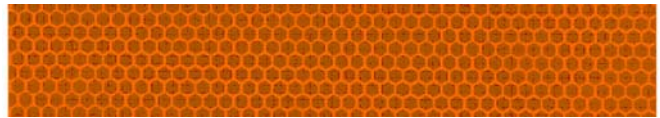
Part Number SX17 - 5910B (Amber)



Part Number SX17 - 5915B (Red)



Part Number SX17 - 5920B (Day Orange)



Part Number 88661041 (Tandem Axle)



Tarp Instruction Decal (Supplied with tarp)



SAFETY SIGN-OFF FORM



Instructions are necessary before operating or servicing equipment. Read and understand the Operator's and Parts Manual and safety signs (decals) on equipment. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

Farm King follows the general Safety Standards specified by the American Society of Agricultural and Biological Engineers (ASABE) and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and / or maintaining the 1060 and 1360 grain cart must read and clearly understand ALL Safety, Operating and Maintenance information presented in this manual.

Annually review this information before the season start-up and make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. An untrained operator is unqualified to operate this machine.

The following sign-off sheet is provided for your record and to show that all personnel who will be working with the equipment have read and understand the information in this Operator's and Parts Manual and have been instructed in the operation of the equipment.

SIGN-OFF SHEET		
Date	Employee's Signature	Employer's Signature

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OPERATION

GENERAL INFORMATION	25
Pre - Operation Checklist	25
Break - In Checklist	26
Tractor Requirements	27
Entering And Leaving The Operator's Position	27
INITIAL SET-UP	28
Connecting The Grain Cart To The Tractor	28
Connecting The PTO Driveline	29
Connecting Hydraulic Hoses	30
Connecting Electrical Harness	30
GRAIN CART OPERATION	31
Loading The Grain Cart	31
Unloading With Discharge Auger	33
Unloading Through Dump Door	35
TRANSPORTING	36
Requirements	36
Transporting Guidelines	36

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GENERAL INFORMATION

Pre - Operation Checklist

Before operating the grain cart for the first time and each time thereafter, check the following items:

WARNING



AVOID INJURY OR DEATH

- Disengage the PTO, engage the machine's parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO for road travel.
- Keep hands, feet and clothing away.

WARNING

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
 - Flying debris or loose material is present.
 - Engine is running.
 - Tools are being used.
1. Lubricate the equipment per the schedule outline in the Maintenance Section. (See "SERVICE SCHEDULE" on page 41.)
 2. Check the grain cart hitch for damaged, loose or missing parts. Repair as needed before operation.
 3. Check the tension and alignment of the belt. Adjust tension and align as required. (See "Adjusting Belt Tension" on page 46.)

4. Check the augers. Remove any twine, wire or other material that has become entangled.
5. Check that all bearings turn freely. Replace any that are rough or seized.
6. Make sure that all guards and shields are in place, secured and functioning as designed.

WARNING



Leaking fluids under pressure can enter the skin and cause serious injury or death. Immediate medical attention is required. Wear goggles. Use cardboard to check for leaks.

7. Check condition of all hydraulic components for leaks. Repair as required.

NOTE: Do not operate with hydraulic leaks.

8. Check that the PTO drivelines telescope easily and turns freely.
9. Check the oil level in the gearbox. (See Figure 27 on page 44.)

Break - In Checklist

Check the following mechanical items after 1 hour of operation and again after 10 hours of operation:



AVOID INJURY OR DEATH

- Disengage the PTO, engage the machine's parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO for road travel.
- Keep hands, feet and clothing away.

13. Check for loose fasteners and hardware. Tighten as required.
14. Check wheel bolts for tightness. Torque as required. (See "SINGLE AXLE" on page 49.) or (See "TANDEM AXLE" on page 48.)
15. Check that the PTO driveline telescopes easily and turns freely.
16. Check condition of auger and drive bearings.
17. Check condition of all hydraulic components for leaks. Tighten fittings to correct leaks or replace components. Do not operate with hydraulic leaks.
18. Check tire pressure. Inflate per manufacturer's specification.
19. Check gearbox oil level. Fill as required. (See "LUBRICATION" on page 42.)
20. Check the augers. Remove any twine, wire or other material that has become entangled.

10. Check alignment of pulleys. Align as required. (See "DRAG AUGER BELT DRIVE" on page 46.)

Figure 3



11. Check the grain cart hitch for damaged, loose or missing parts [Figure 3]. Repair as needed before operation.
12. Check belt tension. Adjust as required. (See "Adjusting Belt Tension" on page 46.)

Tractor Requirements

WARNING



- Do NOT exceed 1000 RPM PTO.
- Keep PTO shields and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.

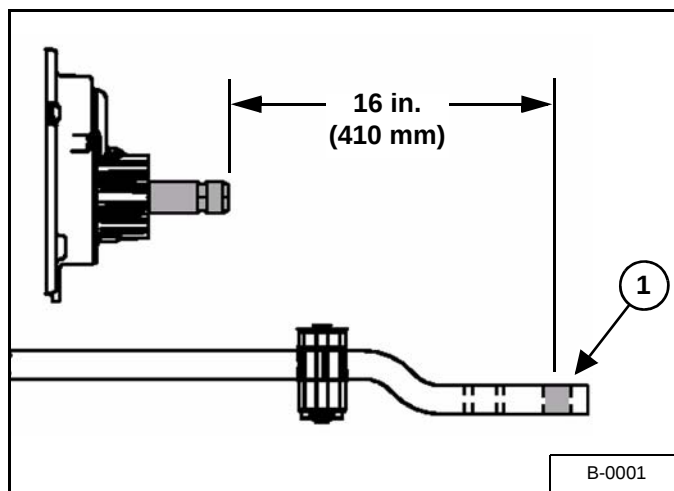
The 1060 grain cart will require a MFWD (Mechanical Front Wheel Drive) tractor (minimum 275 hp), three auxiliary hydraulic functions, Category IV rated drawbar and a 7-Pin electrical connection.

The 1360 grain cart will require a 4WD tractor (minimum 275 hp), PTO shaft, three auxiliary hydraulic functions, Category V rated drawbar and a 7-Pin electrical connection.

The tractor must be equipped with a 20 - spline, 1-3/4 inch (44.5 mm) PTO shaft when used with the Grain Cart.

Drawbar Adjustment

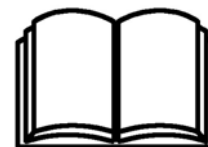
Figure 4



Adjust the tractor's drawbar in / out, until the center of the hitch pin hole (Item 1) **[Figure 4]** is 16 inches (410 mm) from the end of the tractor's PTO shaft. See your tractor's owner's manual for correct adjustment procedures.

Entering And Leaving The Operator's Position

IMPORTANT



Follow the instructions in your tractor's operation manual for the correct procedure.

Entering The Operator's Position

Move to the operator's position, start the engine and release the parking brake.

Leaving The Operator's Position

WARNING

AVOID INJURY OR DEATH

Before you leave the operator's position:

- Always park on a flat level surface.
- Place all controls in NEUTRAL.
- Engage the park brake.
- Stop the engine and remove the key.
- Wait for all moving parts to stop.

Park the tractor / equipment on a flat level surface.

Place all controls in neutral, engage the park brake, stop the engine and wait for all moving parts to stop. Leave the operator's position.

INITIAL SET-UP

Connecting The Grain Cart To The Tractor

Always inspect the tractor's drawbar and grain cart hitch before connecting. See the tractor's owner's manual.

Verify that the tractor's drawbar is adjusted correctly for use with the grain cart. (See "Drawbar Adjustment" on page 27.)

Enter the operator's position. (See "Entering The Operator's Position" on page 27.)

Move the tractor into position in front of the grain cart.



AVOID INJURY OR DEATH

Before moving the tractor, look in all directions and make sure no bystanders, especially small children are in the work area. Do not allow anyone between the tractor and the equipment when backing up to the equipment for connecting.

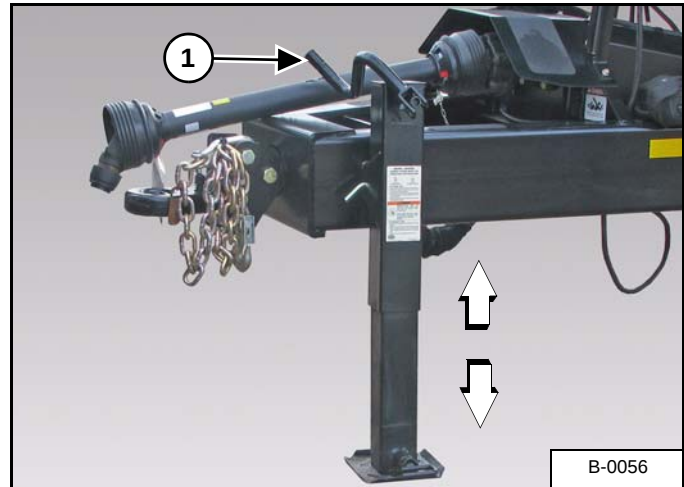
Move the tractor backwards, aligning the drawbar with the grain cart hitch.

NOTE: The jack may need to be lowered or raised for proper alignment of the drawbar and hitch.

If the grain cart hitch needs to be adjusted, stop the tractor when drawbar is just in front of the grain cart hitch.

Leave the operator's position. (See "Leaving The Operator's Position" on page 27.)

Figure 5



Turn the handle (Item 1) [Figure 5] clockwise to raise the hitch or counterclockwise to lower the hitch.

Lower or raise the grain cart hitch until aligned with the tractor's drawbar.

Move to the operator's seat, start the engine and release the parking brake.

Move the tractor backwards, aligning the drawbar hitch pin hole with the grain cart hitch pin hole(s).

Stop the tractor and leave operator's position.

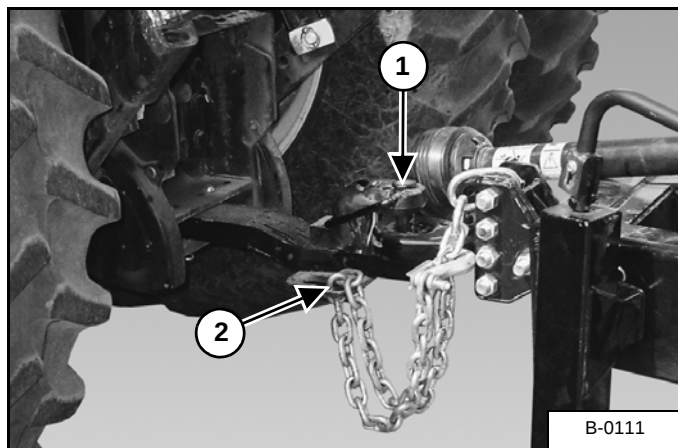


AVOID INJURY OR DEATH

Keep fingers and hands out of pinch points when connecting and disconnecting equipment.

NOTE: Always use a hitch pin of adequate size and strength and a retaining pin with a locking device.

Figure 6



Install the hitch pin (Item 1) [Figure 6] and retaining pin to securely fasten the grain cart hitch to the tractor drawbar.

Attach the safety chain (Item 2) [Figure 6] around the drawbar.

Connecting The PTO Driveline

WARNING

AVOID INJURY OR DEATH

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause serious injury or death.

NOTE: Clean and grease tractor's PTO shaft and PTO driveline coupling each time driveline is connected.

Stop the engine and leave the operator's position. (See "Leaving The Operator's Position" on page 27.)

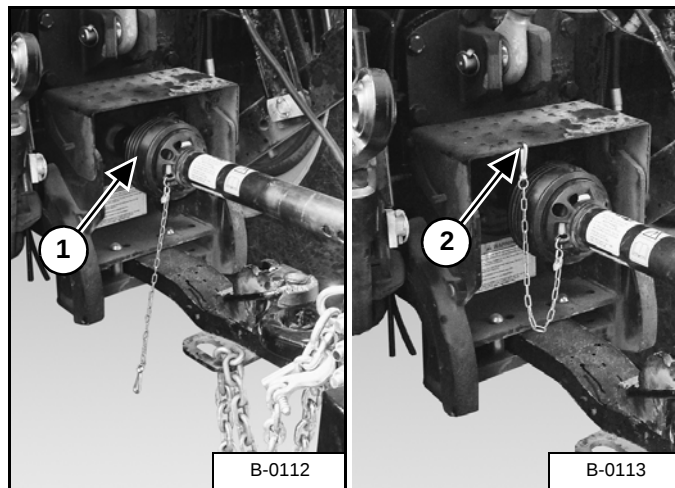
IMPORTANT

Improper hitch installation can cause PTO driveline damage.

- Do not modify the hitch or use an unapproved hitch.
- Make sure the PTO driveline is of adequate length and that u-joints are in the correct phase.

Remove the PTO driveline from the storage position (if applicable).

Figure 7



Retract the collar and slide the PTO driveline (Item 1) onto the tractor PTO shaft until it locks onto the shaft. Push and pull on the PTO driveline to verify it is securely attached to the PTO shaft. Install PTO driveline safety chain (Item 2) [Figure 7].

NOTE: The PTO driveline must have a means to retain it to the PTO shaft on the tractor.

WARNING



- Do NOT exceed 1000 RPM PTO.
- Keep PTO shields and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.

Connecting Hydraulic Hoses

WARNING



HIGH PRESSURE FLUID HAZARD

To prevent serious injury or death from high pressure fluid:

- Relieve pressure on system before repairing or adjusting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

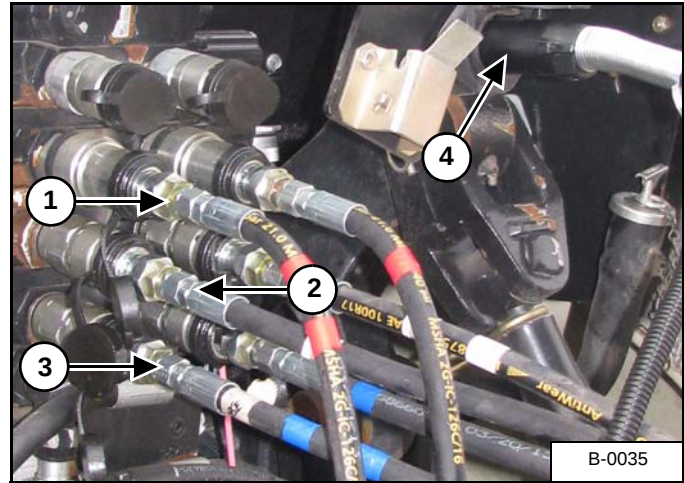
IMPORTANT

- Contain and dispose of any oil leakage in an environmentally safe manner.
- Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the system.

NOTE: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.

To Connect:

Figure 8



Pull back on the collar of the female coupler, push couplers together, release the collar when the couplers are fully engaged and locked **[Figure 8]**.

1. First Circuit: Discharge auger door and drag auger gate cylinders.
2. Second Circuit: Auger chute cylinder.
3. Third Circuit: Auger fold cylinder.

To Disconnect:

WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running equipment. Be careful when connecting and disconnecting quick couplers.

Pull back on the collar and pull the male coupler out to disconnect.

Connecting Electrical Harness

Connect the grain cart's electrical harness (Item 4) **[Figure 8]** to the tractor's electrical system.

Lower jack until weight of equipment is resting on tractor drawbar. Pull lock pin on jack and remove. Mount jack to storage bracket and secure with lock pin.

GRAIN CART OPERATION

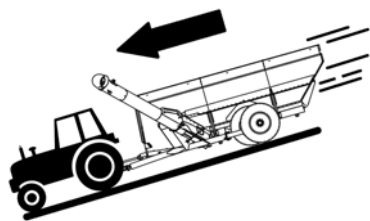
Loading The Grain Cart

WARNING

MACHINE TIPPING OR ROLL OVER CAN CAUSE SERIOUS INJURY OR DEATH

- Turn on level ground. Slow down when turning.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.
- Check for adequate traction.

WARNING



RUN - AWAY HAZARD

To prevent serious injury or death:

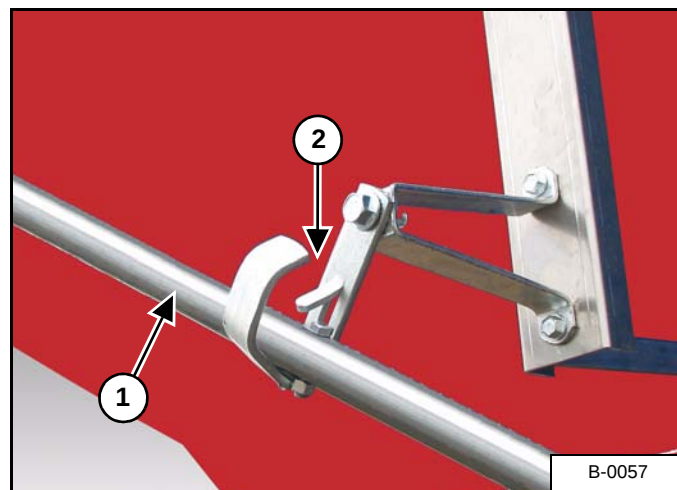
- Shift to lower gear before going down steep grades.
- Keep tractor / towing vehicle in gear at all times.
- Never exceed 20 mph (32 kph).

Figure 9



Open tarp (if equipped) [Figure 9].

Figure 10



Place the crank arm (Item 1) in the crank retainer (Item 2) [Figure 10] after closing or opening the tarp.

Figure 11

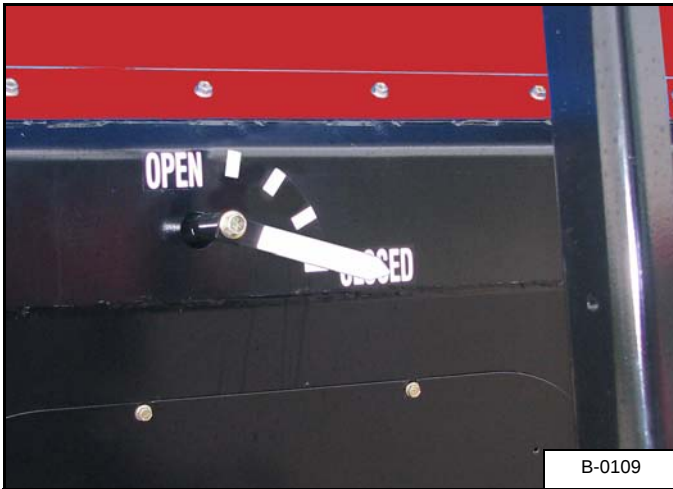


Figure 12



Verify the drag auger [Figure 11] and unloading auger [Figure 12] covers are closed.

Figure 13

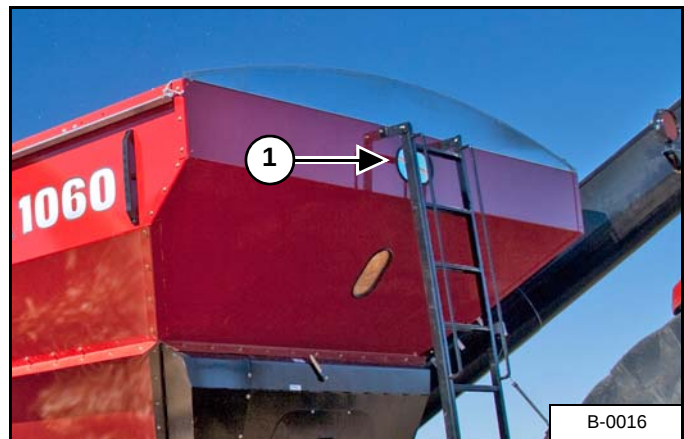


Drive alongside the combine. Center the combine's discharge chute side-to-side and forward of the grain cart axle [Figure 13].

! IMPORTANT

Filling the grain cart forward of the axle will ensure there is downward force on the tractor hitch and thus provide sure footing for the tractor wheels.

Figure 14



Once the material is visible in the top sight glass (Item 1) [Figure 14], proceed to move the grain cart forward and continue filling the full length of the cart.

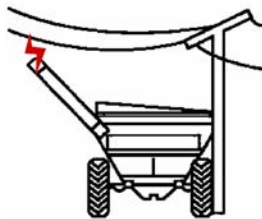
NOTE: Always close the tarp (if equipped) when transporting on public roadways or in windy conditions.

Unloading With Discharge Auger

Drive to the unloading location.

Open the tarp (if equipped).

Run the tractor engine at low idle.



ELECTROCUTION HAZARD

To prevent serious injury or death from electrocution:

- Be aware of overhead powerlines.
- Keep away from powerlines when transporting or raising discharge auger.
- Electrocution can occur without direct contact.

Figure 15



Extend the unload auger into it's fully raised position [Figure 15].

Figure 16



Position the unload auger over receiving container [Figure 16].



Starting a discharge auger when full of grain may cause damage to the drive system.

Slowly engage the tractor PTO, increase engine rpm to rated PTO speed.



- Do NOT exceed 1000 RPM PTO.
- Keep PTO shields and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.

Slowly open the discharge auger door.

NOTE: Once the discharge auger door cylinder is fully extended, the drag auger cover will open using the same tractor hydraulic control function.

Move the grain cart or use the discharge chute to distribute grain centrally and evenly in the receiving container.

NOTE: When discharging into a trailer, always fill front to rear.

 IMPORTANT

When the receiving container is getting close to full and the grain cart is not empty, close the discharge auger door and run the PTO until the discharge auger is empty before disengaging the tractor PTO.

Run the PTO until all the material in the grain cart is removed or the truck is full.

Use the tractor hydraulic control function to close the drag auger gate first and then the discharge auger door.

Continue to run PTO until discharge auger is empty.

Reduce engine speed to low idle and disengage PTO.

Fully lower the discharge auger into the transport position.

Move the tractor and grain cart to the loading area, alongside the combine.

Unloading Through Dump Door



WARNING

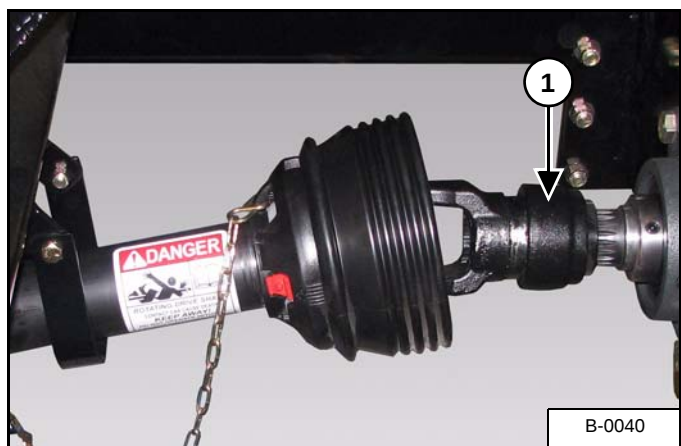
AVOID INJURY OR DEATH

Before you leave the operator's position:

- Always park on a flat level surface.
- Place all controls in NEUTRAL.
- Engage the park brake.
- Stop the engine and remove the key.
- Wait for all moving parts to stop.

Stop the engine and leave the operator's position. (See "Leaving The Operator's Position" on page 27.)

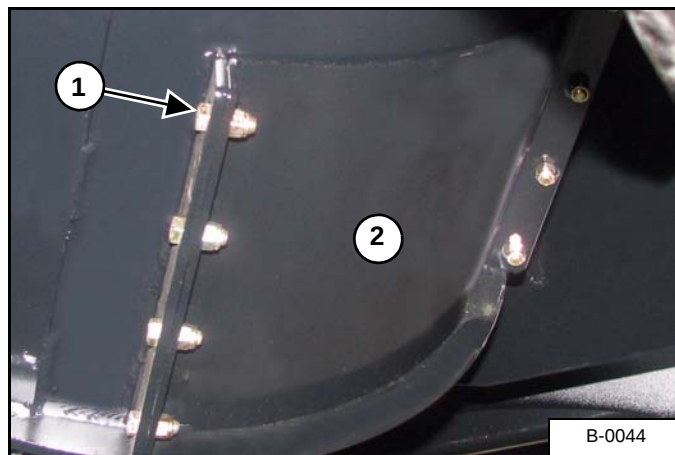
Figure 17



Disconnect the gearbox PTO driveline (Item 1) [Figure 17] at the slip yoke.

Place a collection container under the clean-out door.

Figure 18



Remove the eight bolts (Item 1) and nuts. Remove the clean-out door (Item 2) [Figure 18].

Move to the operator's seat, start the engine and release the parking brake. (See "Entering The Operator's Position" on page 27.)

Run the tractor engine at low idle.

Start the receiving auger (drive-over or unloading hopper).

Engage the tractor PTO and increase the rpm to the desired unloading speed (Do NOT exceed 1000 rpm).

Using hydraulic and cart switch, open unloading auger door and raise the drag auger cover to the desired positions.

Continue to operate PTO until grain has stopped coming out of cart.

Reduce engine rpm and shut off PTO.

Close unloading auger door and drag auger cover.

TRANSPORTING Requirements

Comply with federal, state, local and provincial laws regarding the transport of farm equipment on public roadways.

! IMPORTANT

Never exceed 20 mph (32 kph).

! WARNING

Use of an unapproved hitch or tractor / tow vehicle can result in loss of control, leading to serious injury or death.

Tractor / tow vehicle and hitch must have the rated capacity to tow equipment.

Verify that the tractor / tow vehicle are approved for transporting the equipment and that the equipment is securely attached to the tractor / tow vehicle.

Verify safety chain is installed and properly connected before transporting equipment.

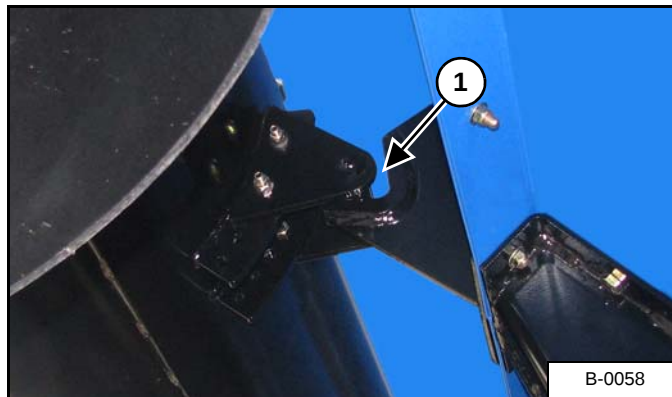
Verify that the SMV (Slow Moving Vehicle) emblem, all lights and reflectors are clean and visible.

Figure 19



Lower the discharge auger into the transport position [Figure 19].

Figure 20



Verify that the unload auger is resting in the auger support bracket (Item 1) [Figure 20] before transporting.

! IMPORTANT

Do not move or transport the grain cart unless discharge auger is supported on the auger support bracket.

Transporting Guidelines

! WARNING

AVOID SERIOUS INJURY OR DEATH

DO NOT transport a loaded grain cart on public roadways. Excess weight will greatly increase tractor stopping distance and may cause the operator to lose control of the tractor or tow vehicle.

The ratio of the tractor / tow vehicle weight to the loaded equipment weight plays an important role in defining acceptable travel speed.

TRAVEL SPEED - Acceptable travel speed.

WEIGHT RATIO - Weight of fully equipped or loaded implement(s) relative to weight of tractor / tow vehicle.

TRAVEL SPEED	WEIGHT RATIO
Up to 20 mph (32 kph)	1 to 1 (or less)
Up to 10 mph (16 kph)	2 to 1 (or less)
DO NOT TOW	More than 2 to 1

MAINTENANCE

TROUBLESHOOTING	39
Chart	39
SERVICE SCHEDULE	41
Maintenance Intervals	41
LUBRICATION	42
Recommendations	42
Locations	42
DRAG AUGER BELT DRIVE	46
Adjusting Belt Tension	46
PTO DRIVELINE	47
Removal	47
Disassembly And Assembly	47
Cleaning And Inspection	47
TANDEM AXLE	48
Wheel Lug Nut Torque	48
Inner Tire Access	48
SINGLE AXLE	49
Wheel Lug Nut Torque	49
SAFETY SIGN (DECAL) INSTALLATION	49
Procedure	49
STORAGE AND RETURN TO SERVICE	49
Storage	49
Return To Service	49

Farm King



TROUBLESHOOTING

Chart



Instructions are necessary before operating or servicing equipment. Read and understand the Operator's and Parts Manual and safety signs (decals) on equipment. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

NOTE: If a problem is encountered that is difficult to solve, even after having read through this troubleshooting section, please call your local distributor, dealer or factory. Before you call, please have this Operator's And Parts Manual and the serial number of your machine at hand.

PROBLEM	CAUSE	CORRECTION
Cannot start augers.	Plugged auger or obstruction.	Remove grain from cart via gravity dump door, check for and remove any obstructions.
		Close down the floor drag auger's gate and attempt to start auger again at lower rpm with the unload auger NOT engaged. Stop if the problem persists.
		Fold down the unload auger to allow trapped grain to escape. Once the unload auger is empty, fully extend the auger and carefully attempt to unload the cart with both augers engaged.
Unload auger won't fully extend or engage drive hub.	Obstruction.	Check for any obstructions in the path of the auger or in the pivot.
	Hydraulic failure.	Check that hydraulic lines are connected and functioning properly. Check hydraulic system for leaks.
Floor drag auger won't engage.	Auger plugged.	Remove grain from cart via gravity dump door, check for and remove any obstructions.
	Faulty belt drive.	Visually inspect the belt drive and tensioner. Verify the belt is attempting to engage.
	Sheared key on driveline.	Check for any sheared keys in the driveline and repair as needed.

PROBLEM	CAUSE	CORRECTION
Unload auger won't engage.	Auger plugged.	Remove grain from cart via gravity dump door, check for and remove any obstructions.
	Faulty PTO / gear box.	Visually inspect the drive train.
		Inspect and verify all shafts do attempt to engage.
		Check for any sheared keys.
Slip clutch making noise.	Excessive load on auger.	Disengage the PTO. The clutch should automatically reset after PTO is disengaged. Allow all moving parts to stop. Close down both unload gates as much as possible, and carefully try to engage the PTO. Stop if the problem persists. See the above section on 'Cannot start augers'.
Grain leaks out of the unload auger pivot.	Auger not fully seated.	Verify that the auger is fully extended and seated.
		Fully extend the discharge auger before engaging the PTO.
	Grain leaks after the unloading process and during the folding stage.	Residual grain in auger tube falling down. Allow auger to empty and lower into transport position.
Lights do not function.	Loose connection.	Check electrical connection at tractor.
	Faulty harness or wire.	Check for broken wires.
	Faulty tractor circuit.	Check tractor light circuit.
Unload directional spout turns too quickly.	Excessive hydraulic flow.	Reduce the flow by feathering the hydraulic valve control / lever.
Grain flow is too fast for filling the truck.	Excessive grain flow.	Close hydraulic gates and throttle lower rpm. Open the gates to allow a low flow of grain to the truck.

SERVICE SCHEDULE

Maintenance Intervals

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Grain Cart.



Instructions are necessary before operating or servicing equipment. Read and understand the Operator and Parts Manual and safety signs (decals) on equipment. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

#	DESCRIPTION	SERVICE PROCEDURES						
		Check	Clean	Lube	Change	Adjust	Drain	Locations
Daily Maintenance (or every 8 hours)								
1	Tandem Axle Pivot (Model 1360)			•				
Weekly (or every 50 hours)								
2	PTO Driveline			•				
3	Universal Joint (Front)			•				
4	Universal Joint (Belly)			•				
5	Discharge Auger Fold/Extend Anchor Bushings			•				
6	Discharge Auger Gearbox Oil Level	•						
7	Wheel Lug Nut Torque	•						
Annually (or every 500 hours)								
8	Discharge Auger Bearings			•				
9	Drag Auger Bearings			•				
10	Drag Auger Drive Bearings			•				
11	Input Drive Hanger Bearings			•				
12	Dump Door Control Rod Bearings			•				
13	Machine		•					

LUBRICATION

Recommendations

Always use a good quality multi-purpose / lithium base grease when lubricating the equipment.

! IMPORTANT

Do not over-grease bearings. Greasing too often can damage seals and lead to premature bearing failure.

- Always use a hand-held grease gun.
- Clean fitting before greasing, to avoid injecting dirt and grit.
- Replace and repair broken fittings immediately.
- If fittings will not take grease, remove and clean thoroughly. Replace fitting if necessary.

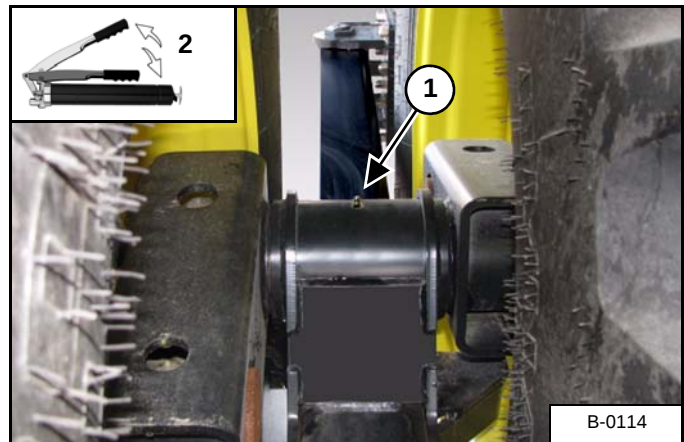
Locations

! IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

Lubricate the following grease locations EVERY 8 HOURS:

Figure 21

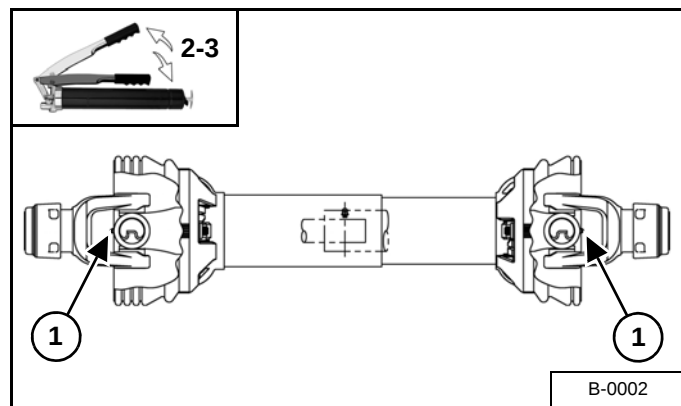


Apply two pumps of grease to the 1360 tandem axle pivot (Item 1) [Figure 21].

Lubricate the following grease locations EVERY 50 HOURS:

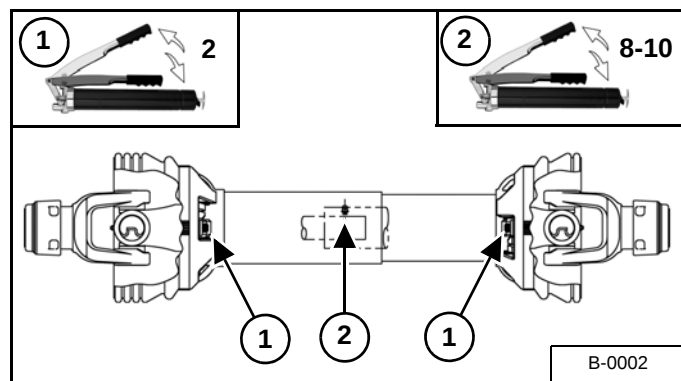
NOTE: The PTO shaft is equipped with extended life bearings. Do not over-grease.

Figure 22



Apply two - three pumps of grease to the cross and bearings (Item 1) [Figure 22] on the PTO driveline.

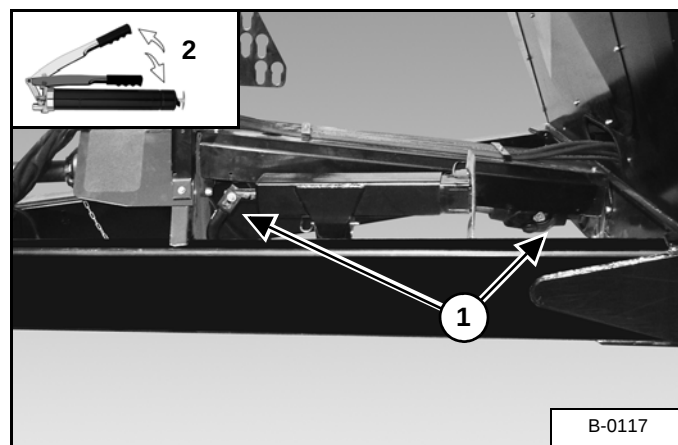
Figure 23



Apply two pumps of grease to the guard bushings (Item 1) [Figure 23].

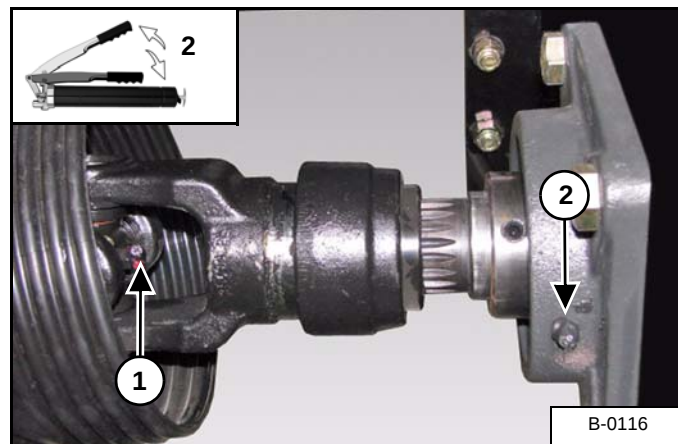
Apply eight - ten pumps of grease to the telescoping member (Item 2) [Figure 23].

Figure 24



Apply two pumps of grease to the front driveline universal joints (Item 1) [Figure 24].

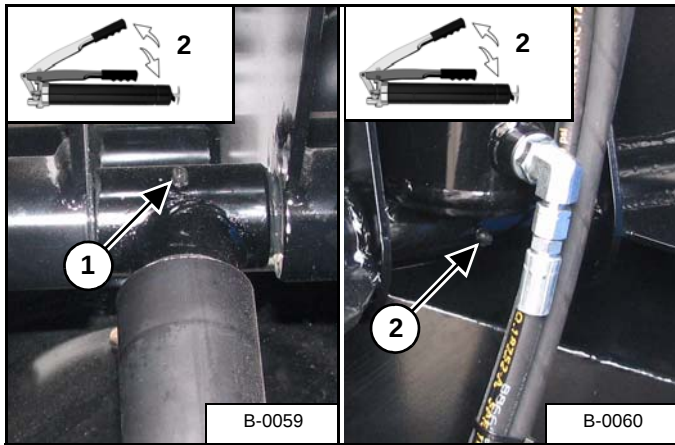
Figure 25



Apply two pumps of grease to the belly driveline universal joints (Item 1) [Figure 25] (both ends).

Apply two pumps of grease to the bearing (Item 2) [Figure 25].

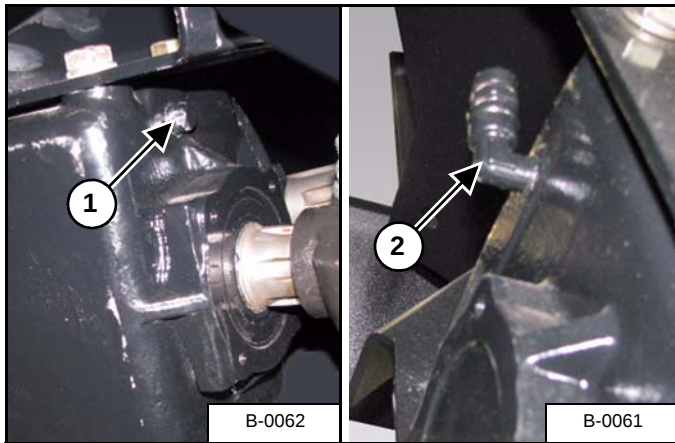
Figure 26



Apply 2 pumps of grease to the rod end (Item 1) and base end (Item 2) [Figure 26] of the unload auger fold / extend cylinder.

Check the unload auger gearbox EVERY 50 HOURS:

Figure 27



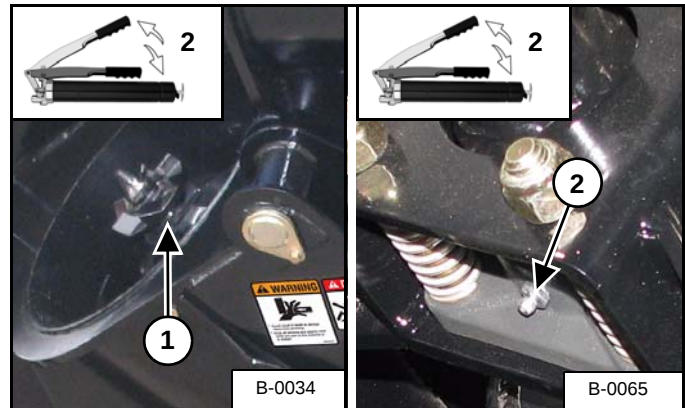
Remove the plug (Item 1) [Figure 27] and check unload auger gearbox oil level. The oil level should be at the bottom of the plug opening.

NOTE: Add 80W-90 (SF, SG, SH or SJ) gear oil if level is low.

If the oil level is low, remove the breather (Item 2) [Figure 27]. Add oil until the oil starts to run out of the plug opening. Install plug and breather.

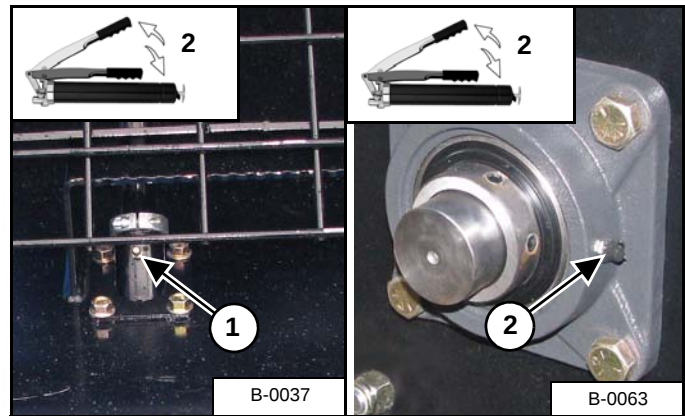
Lubricate the following grease locations EVERY 500 HOURS:

Figure 28



Apply two pumps of grease to the lower (Item 1) and upper (Item 2) [Figure 28] unload auger bearings.

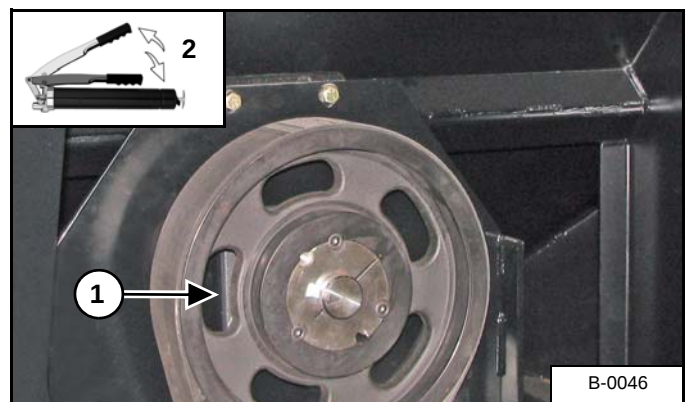
Figure 29



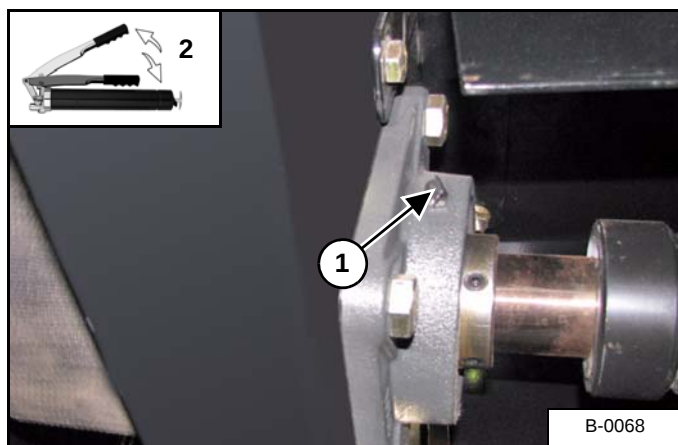
Apply two pumps of grease to the front (Item 1) [Figure 29] drag auger bearing.

Apply two pumps of grease to the rear hanger (Item 2) [Figure 29].

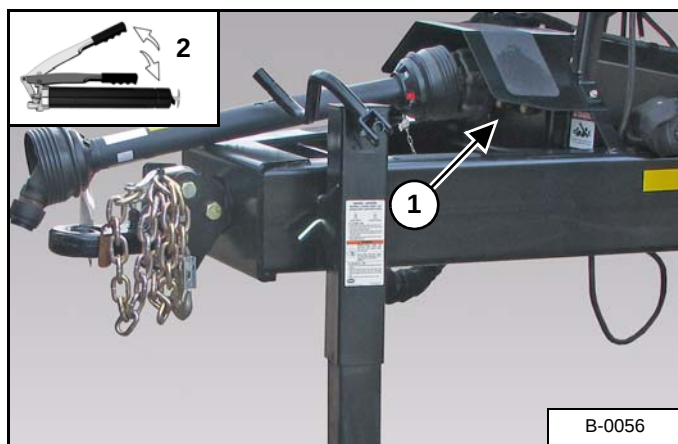
Figure 30



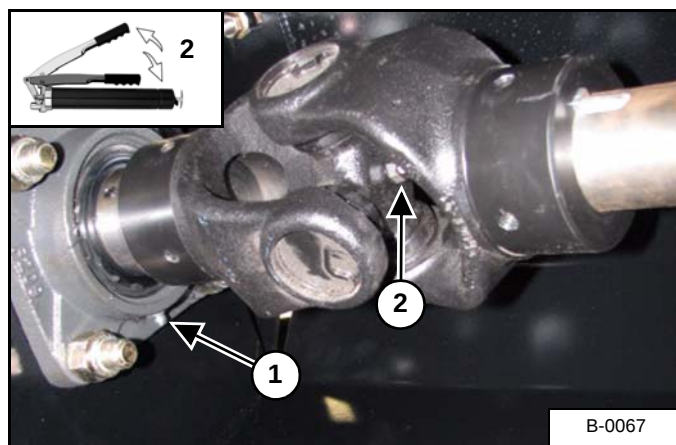
Apply two pumps of grease to the front drag auger drive bearings (Item 1) [Figure 30]. Located behind the pulley.

Figure 31


Apply two pumps of grease to the front drag auger drive bearings (Item 1) **[Figure 31]**. Located behind the pulley.

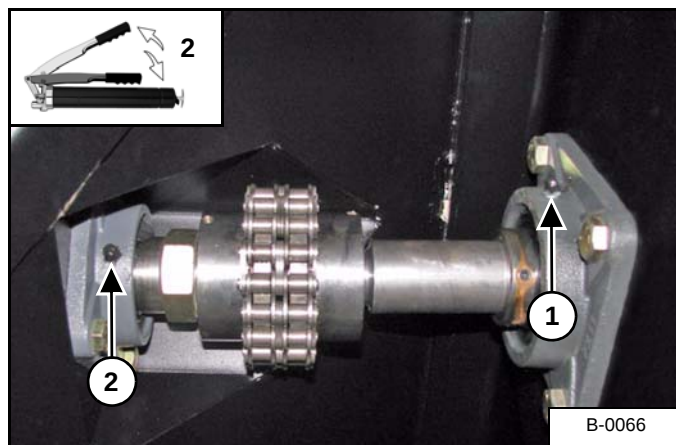
Figure 32


Apply two pumps of grease to the input drive hanger front (Item 1) **[Figure 32]** bearing.

Figure 33


Apply two pumps of grease to the input drive hanger front (Item 1) **[Figure 33]** and rear bearing.

Apply two pumps of grease to the input drive shaft u-joints (Item 2) **[Figure 33]** (both ends).

Figure 34


Apply two pumps of grease to the drag auger drive front (Item 1) and rear (Item 2) **[Figure 34]** hanger bearing.

DRAG AUGER BELT DRIVE

Adjusting Belt Tension

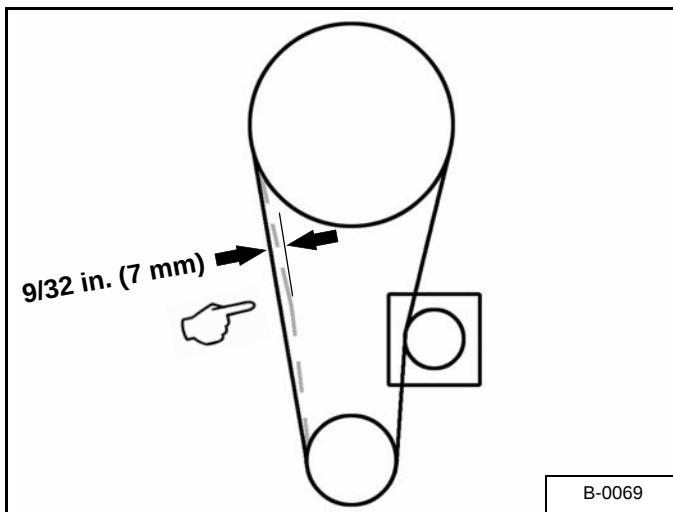


AVOID INJURY OR DEATH

Before you leave the operator's position:

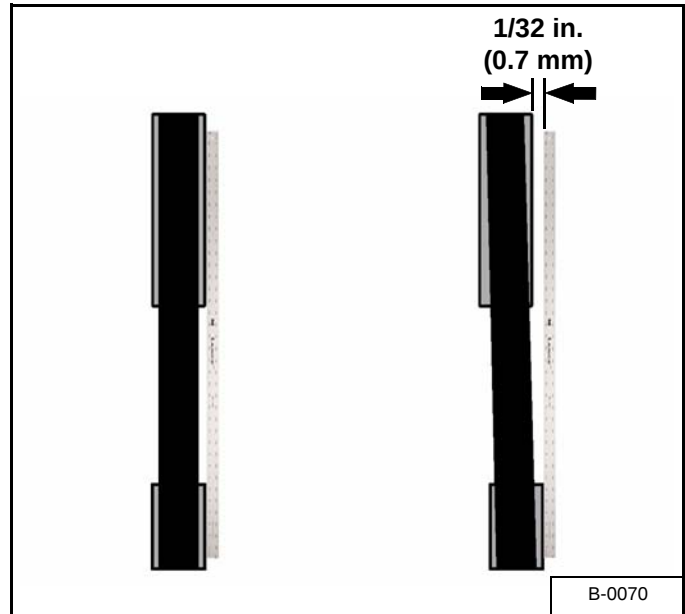
- Always park on a flat level surface.
- Place all controls in NEUTRAL.
- Engage the park brake.
- Stop the engine and remove the key.
- Wait for all moving parts to stop.

Figure 35



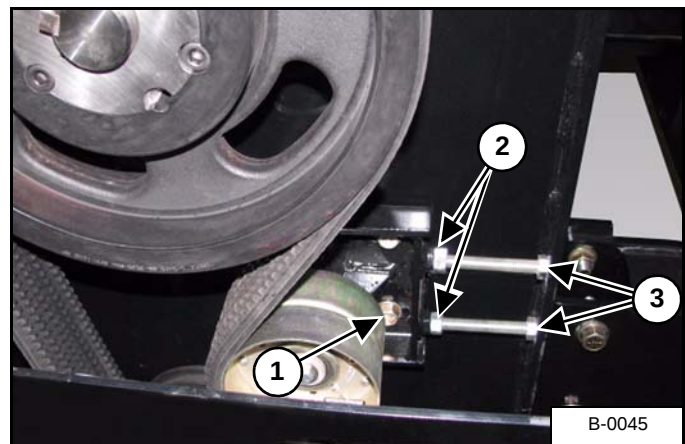
Push on the center of the long span to check the tension of the belt. The belt should move approximately 9/32 in. (7 mm) when pushed on with 15 lb (6.8 kg) of force [Figure 35].

Figure 36



Lay a straight edge across the pulley faces to check the alignment [Figure 36]. Adjust alignment if pulley faces vary more than 1/32 inches (0.7 mm).

Figure 37



Loosen the two bolts (Item 1) [Figure 37] until the tensioner assembly is free from the frame.

Loosen jam nuts (Item 2), use the two bolts (Item 3) [Figure 37] to adjust tension.

Tighten the tensioner assembly against the drive belt until the belt deflection is approximately 9/32 in. (7 mm) when pushed on with 15 lb (6.8 kg) of force [Figure 35].

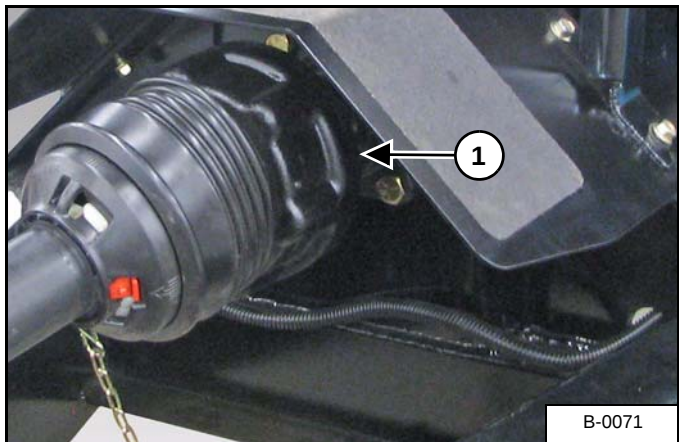
Retighten and torque jam nuts (Item 2) [Figure 37].

Retighten and torque bolts (Item 1) [Figure 37] securely fastening the tensioner assembly to the frame.

PTO DRIVELINE

Removal

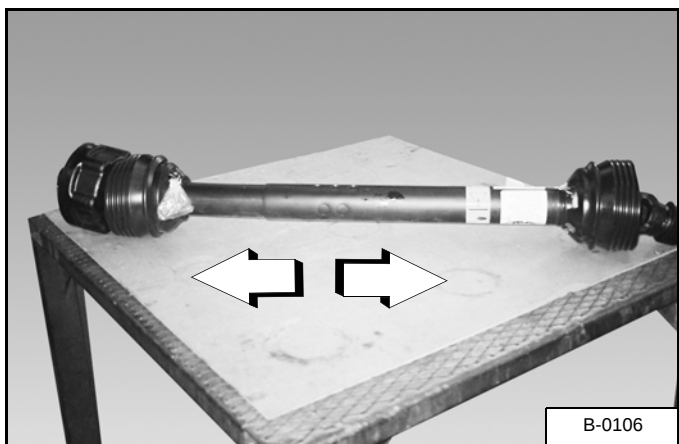
Figure 38



Loosen the bolt and lock nut (Item 1) [Figure 38] on clutch end of the main PTO driveline and remove driveline from the 1.75" front PTO shaft.

Disassembly And Assembly

Figure 39



Separate the two sections of the driveline [Figure 39].

Assembly: Slide the two sections together. Check the driveline telescopes freely.

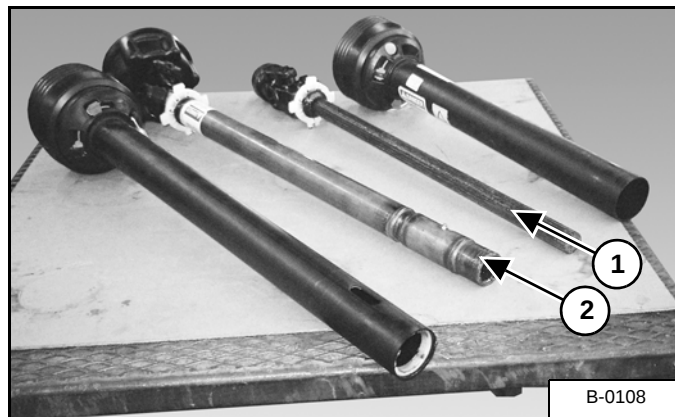
Figure 40



Release guard bearing lock tabs (two tabs per shield) on the two guards [Figure 40].

Assembly: Insert the tabs through the holes and seat in position. Push each tab down to secure guard to each shaft section.

Figure 41



Remove the guard(s) from the shaft(s) [Figure 41].

Assembly: Insert the shaft into its respective guard and align the tabs with the holes.

Cleaning And Inspection

NOTE: Inspect the driveline components, replace all damaged or worn components.

Use solvent to clean the shaft (Item 1) and tube (Item 2) [Figure 41]. Use compressed air to dry and remove excess solvent from the parts.

Apply a light coat of grease to the shaft and the tube end.

Use solvent to clean the slide collars, yokes, crosses and bearings. Use compressed air to dry the parts.

Apply a light coat of grease to the inside of the slide collars.

TANDEM AXLE

Wheel Lug Nut Torque

Check the torque on wheel lug nuts daily. Tighten lug nuts to 420 ft-lb torque.

Inner Tire Access

Empty the grain cart.



WARNING

AVOID INJURY OR DEATH

Before you leave the operator's position:

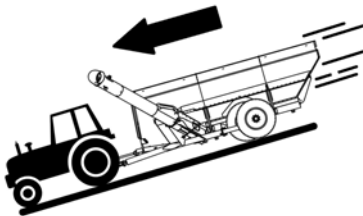
- Always park on a flat level surface.
- Place all controls in NEUTRAL.
- Engage the park brake.
- Stop the engine and remove the key.
- Wait for all moving parts to stop.

Park the tractor / equipment on a flat level surface.

Place all controls in neutral, engage the park brake, stop the engine and wait for all moving parts to stop. Leave the operator's position.



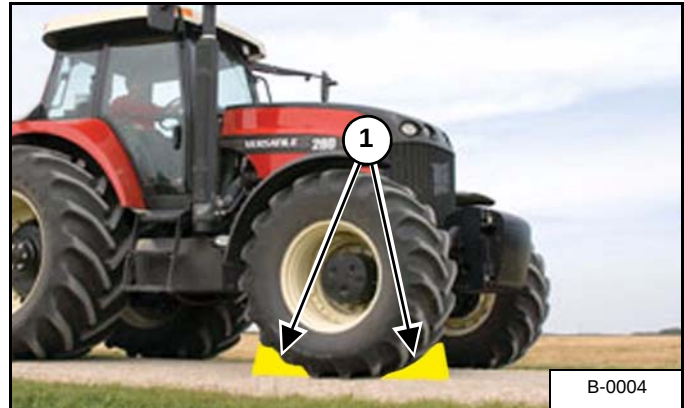
WARNING



AVOID INJURY OR DEATH

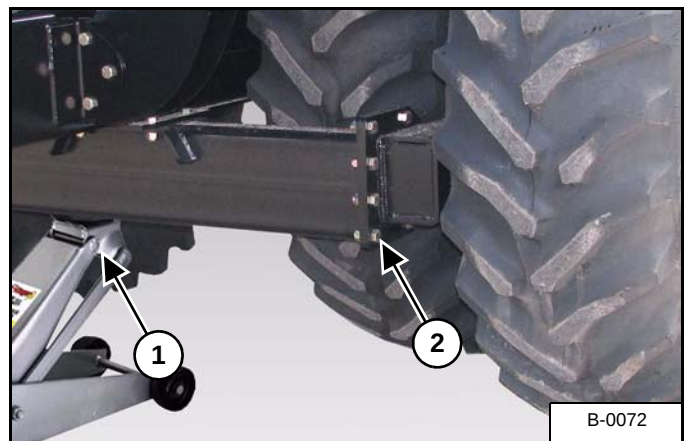
- The parking brake must be engaged before leaving the operator's position. Rollaway can occur because the transmission may not prevent machine movement.
- Always chock tires before performing any maintenance or service.

Figure 42



Place chock blocks (Item 1) [Figure 42] behind and in front the tractor tire.

Figure 43



Place a jack (5-Ton minimum) (Item 1) [Figure 43] under the frame. Raise the jack until both wheels are slightly off the ground.

NOTE: Place blocks under the frame to help secure the grain cart when wheels are raised off the ground.

Loosen and remove the six bolts (Item 2) [Figure 43] at the rear of the swing axle.

Move / pivot the swing axle out / away from the grain cart.

Check and re-torque inner wheel lug nuts to 420 ft-lb torque.

Move / pivot the swing axle back into the operating position.

Install the six bolts and tighten to 300 ft-lb torque.

SINGLE AXLE

Wheel Lug Nut Torque

Check the torque on wheel lug nuts daily. Tighten lug nuts to 420 ft-lb torque.

SAFETY SIGN (DECAL) INSTALLATION

Procedure



When replacing safety signs (decals), the temperature must be above 10° C (50° F).

- Remove all portions of the damaged safety sign (decal).
- Thoroughly clean the area with glass cleaner. Removing all adhesive residue.
- Allow the area to dry completely before installing the new safety sign (decal).
- Position the safety sign (decal) in the correct location. Remove a small portion of the backing paper on the safety sign (decal).
- Press on the safety sign (decal) where the backing paper has been removed.
- Slowly remove the remaining backing paper, pressing on the safety sign (decal) as the backing paper is removed.
- Using the backing paper, pressing firmly, move the backing paper over the entire safety sign (decal) area.

NOTE: Small air pockets can be pierced with a pin and smoothed out using the piece of the backing paper.

STORAGE AND RETURN TO SERVICE

Storage

Sometimes it may be necessary to store your Farm King grain cart for an extended period of time. Below is a list of items to perform before storage.



DO NOT permit children to play on or around the stored machine.

- Thoroughly clean the equipment.
- Completely drain water from hopper.
- Lubricate the equipment.
- Place hydraulic hoses and 7-pin connector in the storage brackets.
- Inspect the hitch and all welds on the equipment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing safety signs (decals). Replace if necessary.
- Replace worn or damaged parts.
- Touch up all paint nicks and scratches to prevent rusting.
- Close the roll-top cover (if equipped).
- Place the equipment in a dry protected shelter.

NOTE: If a dry protected shelter is not available, cover with a waterproof tarp and tie down securely.

- Place the equipment flat on the ground.
- Support the jack / frame with planks if required.

Return To Service

After the Farm King grain cart has been in storage, it is necessary to follow a list of items to return the equipment to service.

- Be sure all shields and guards are in place.
- Lubricate the equipment.
- Connect to a tractor and operate equipment, verify all functions operate correctly.
- Check for leaks. Repair as needed.

Farm King



PARTS IDENTIFICATION

GENERAL INFORMATION	53
DRIVE GROUP (1060 & 1360 MODELS)	53
Components	53
Belt Drive Assembly	54
U-joint (55R 1.75 x 1.75)	55
U-joint (55R 1.75 x 2.00)	55
PTO Shaft (Drag Auger)	56
PTO Shaft (Auto Clutch)	57
AXLE & HITCH OPTIONS (1060 & 1360 MODELS)	58
Single Axle Components	58
Single Axle Weldment	58
Single Axle Assembly (Scale)	59
Hub Assembly	60
Walking Tandem Axle Assembly	61
LH Tandem Rocker Assembly	62
RH Tandem Rocker Assembly	63
Walking Tandem Axle Assembly (Scale)	64
LH Tandem Rocker Assembly (Scale)	66
RH Tandem Rocker Assembly (Scale)	67
Hub Assembly (10-Bolt, 13.19 BC)	68
Hub & Spindle Assembly (25K)	69
DRAG AUGER ASSEMBLY	70
Components	70
DRAG AUGER GATE ASSEMBLY (1060 & 1360 MODELS)	72
Components	72
HITCH AND JACK ASSEMBLY	75
Components	75
UPPER FRAME ASSEMBLY (1060 & 1360 MODELS)	76
Upper Frame Components	76
LADDER GROUP (1060 & 1360 MODELS)	77
Ladder Assembly	77
UPPER AUGER ASSEMBLY (1060 & 1360 MODELS)	78
Upper Auger Components	78
BIN EXTENSIONS (1360 MODELS)	80
Components	80

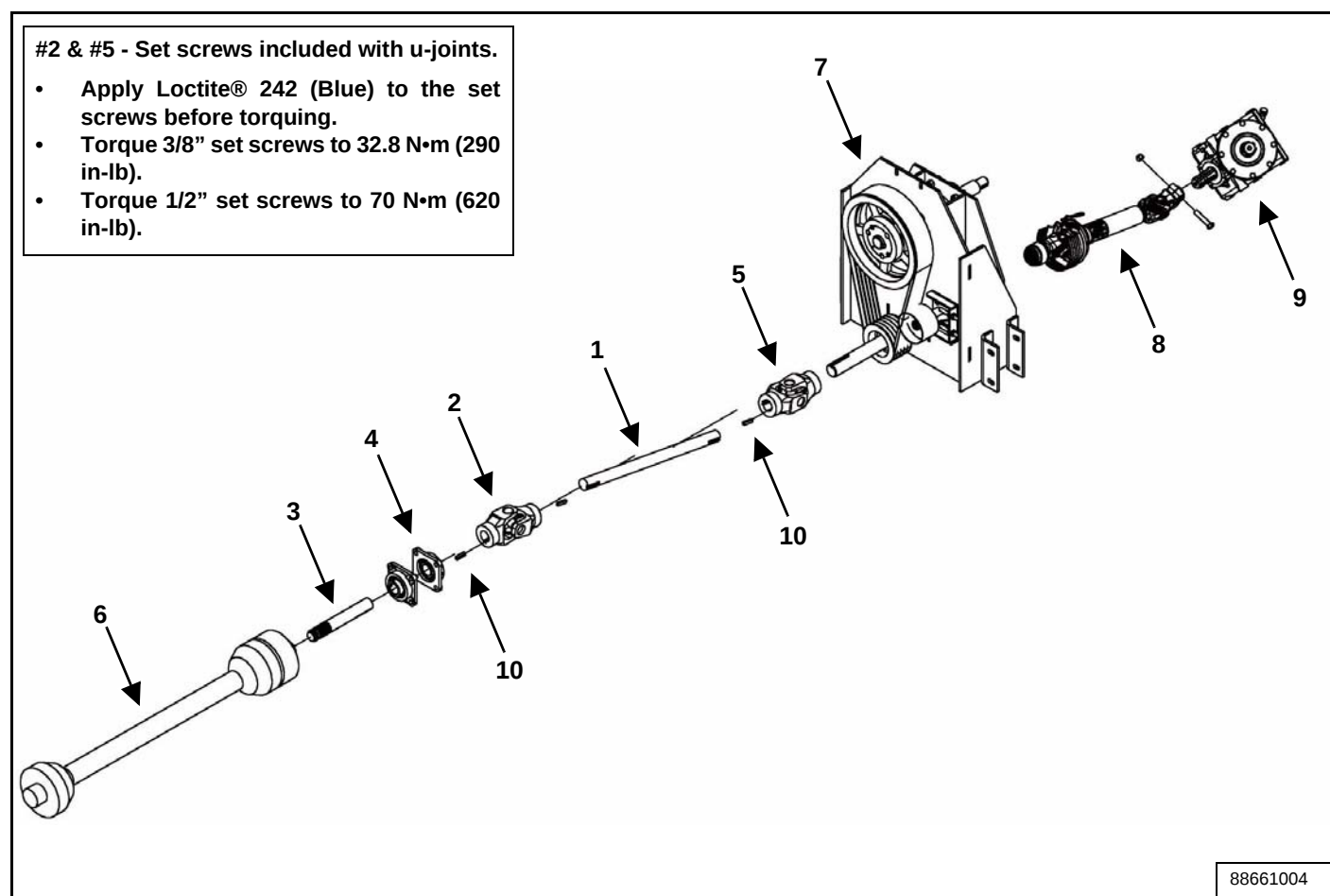
BIN SUPPORT BRACES (1060 & 1360 MODELS)	.81
Components	.81
MAIN BIN PANEL ASSEMBLY	.82
Blue Grain Cart	.82
Green Grain Cart	.84
Red Grain Cart	.86
Yellow Grain Cart	.88
LIGHTING & MARKING	.90
Components	.90
SLIDE GATE ASSEMBLY	.91
Components	.91
LOWER FRAME ASSEMBLY	.92
Front Components	.92
PTO Hanger Mounting Components	.94
BIN FLOOR GRATING ASSEMBLY (1060 & 1360 MODELS)	.95
Components	.95
CAMERA KIT (OPTIONAL) (1060 & 1360 MODELS)	.96
Components	.96
TARP ASSEMBLY (1060 & 1360 MODELS)	.97
1060 Components	.97
1360 Components	.98

GENERAL INFORMATION

The parts identification section list descriptions, part numbers and quantities for all North America Base Model 1060 and 1360 grain carts. Contact your Farm King dealer for additional grain cart parts information.

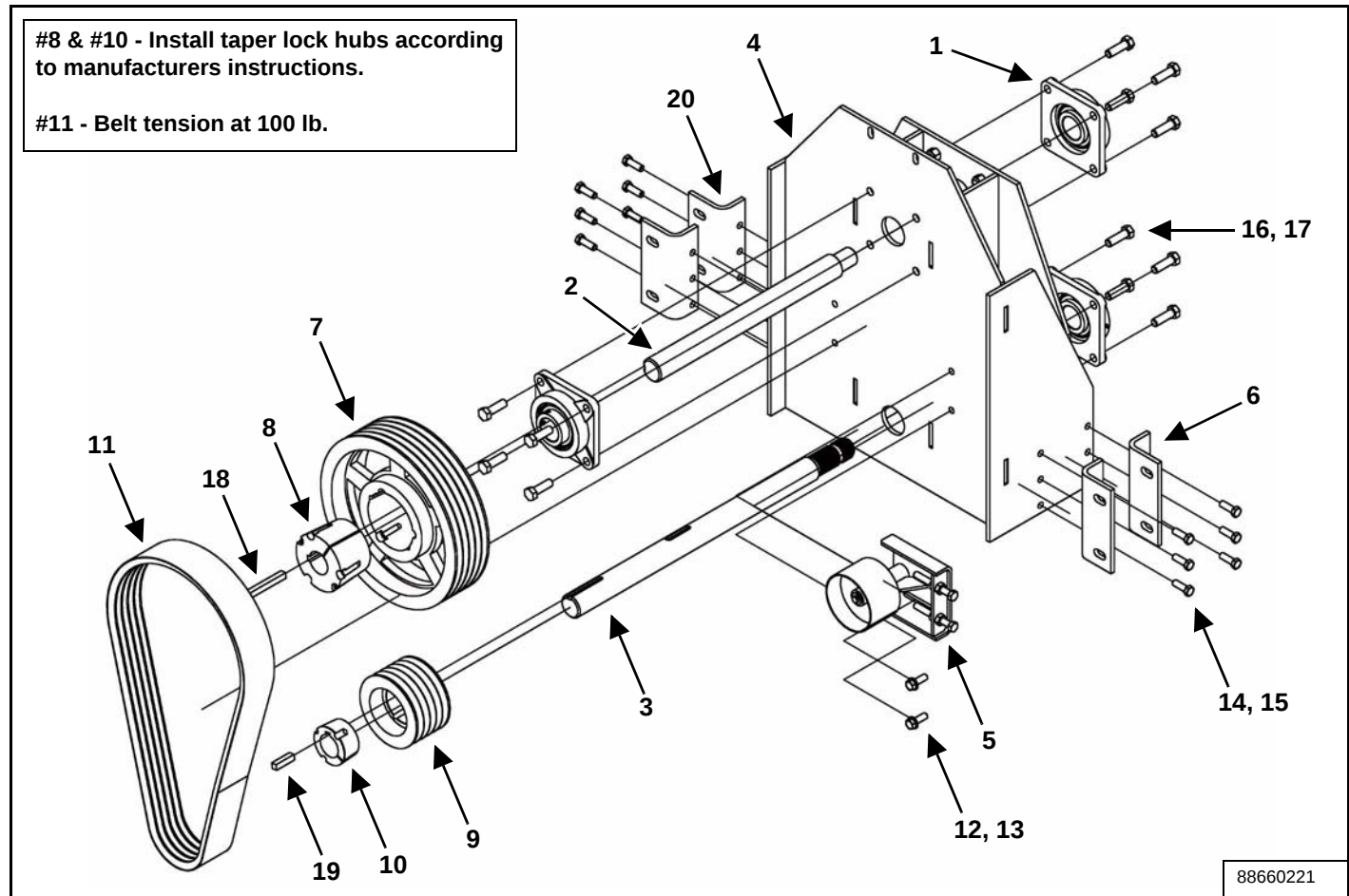
DRIVE GROUP (1060 & 1360 MODELS)

Components

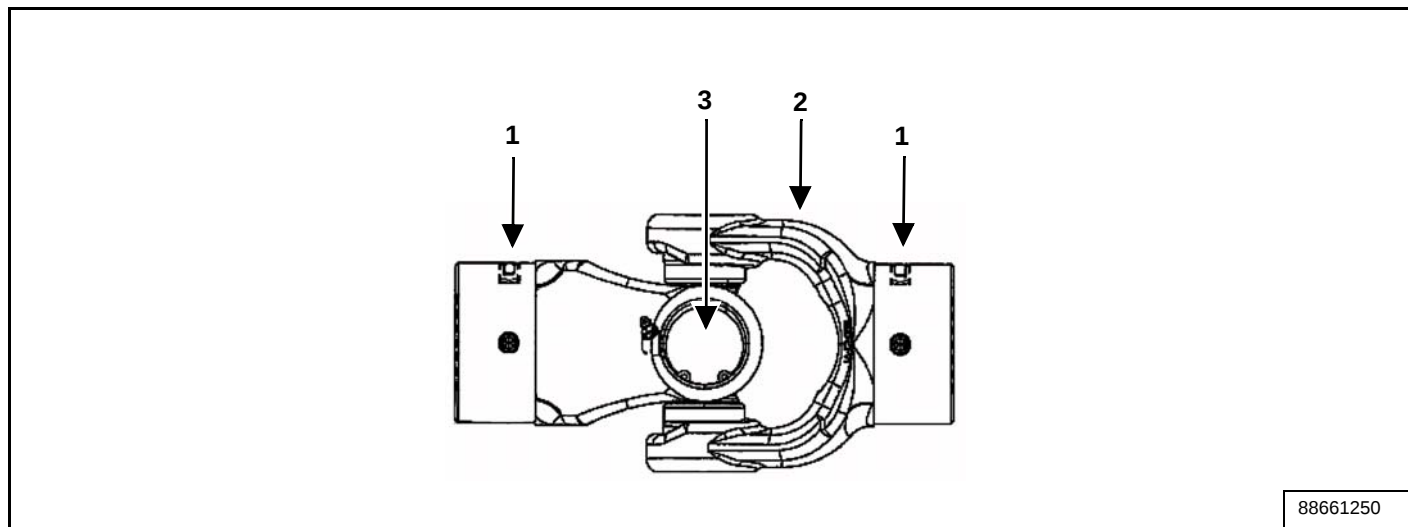


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661793	SHAFT, DRIVE FRONT	1
2	88661250	ASSY, U-JOINT, 55R 1.75" x 1.75"	1
3	88661762	PTO SHAFT, 1.75" x 20 SPL 12" LG	1
4	88660360	BEARING, 4-BOLT FLG 1-3/4" SHAFT	2
5	88661251	ASSY, U-JOINT, 55R 1.75" TO 2.00"	1
6	88661254	ASSY, PTO SHAFT, AUTO CLUTCH	1
7	88660221	ASSY, BELT DRIVE	1
8	88661794	PTO SHAFT, TO GEARBOX	1
9	88660186	GEARBOX, 130 DEGREE	1
10	88662046	KEY SQ, 0.375" x 1.75"	3

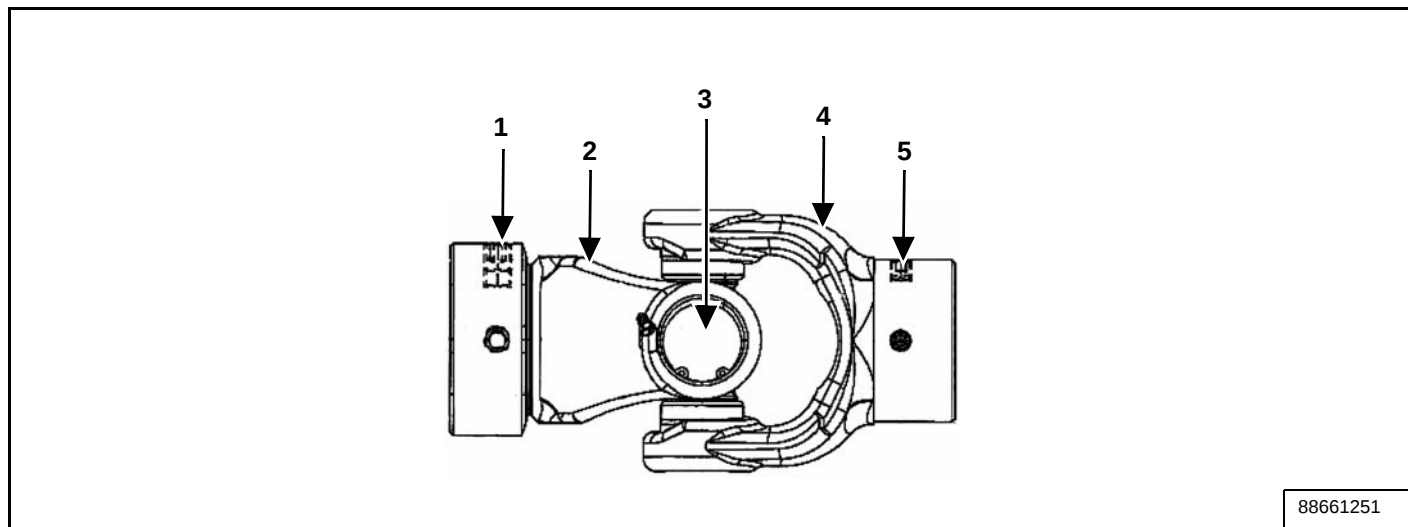
Belt Drive Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660382	BEARING, 4-BOLT FLG, 2"	3
2	88660645	SHAFT, UPPER, BELT DRIVE	1
3	88660646	SHAFT, LOWER, BELT DRIVE	1
4	88661001	HOUSING DRIVE WELDMENT	1
5	88661003	TENSIONER ASSEMBLY	1
6	88661279	BRACKET, FRMD ANGLE, LH	2
7	88660223	PULLEY, 5-BAND 15.0"	1
8	88660225	BUSHING, TAPER LOCK 2"	1
9	88661781	PULLEY, 5/5V6.3 VT-2517	1
10	88660226	BUSHING, TAPER LOCK 2"	1
11	88662002	BELT, 5/5 VX, 730	1
12	SXBHF0501508YZ	BOLT, HEX FLANGE, 1/2" x 1.50" GR8-YZ	2
13	SXNTFTL050138Y	NUT FLG, TP LCK, 1/2" GR8-YZ	2
14	SXBH0501505YZ	BOLT, 1/2 X 1.50 GR5	12
15	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	12
16	86505999	CSHH G5 P, 0.62" x 2.00" 86505344	12
17	SXLN-062-NI-YZ	LOCKNUT, 5/8" NYLON INSERT YZ	12
18	88662027	KEY SQ, 0.50" x 4.00"	1
19	88660570	KEY SQ, 1/2" x 2"	1
20	88661278	BRACKET, FRMD ANGLE, RH	2

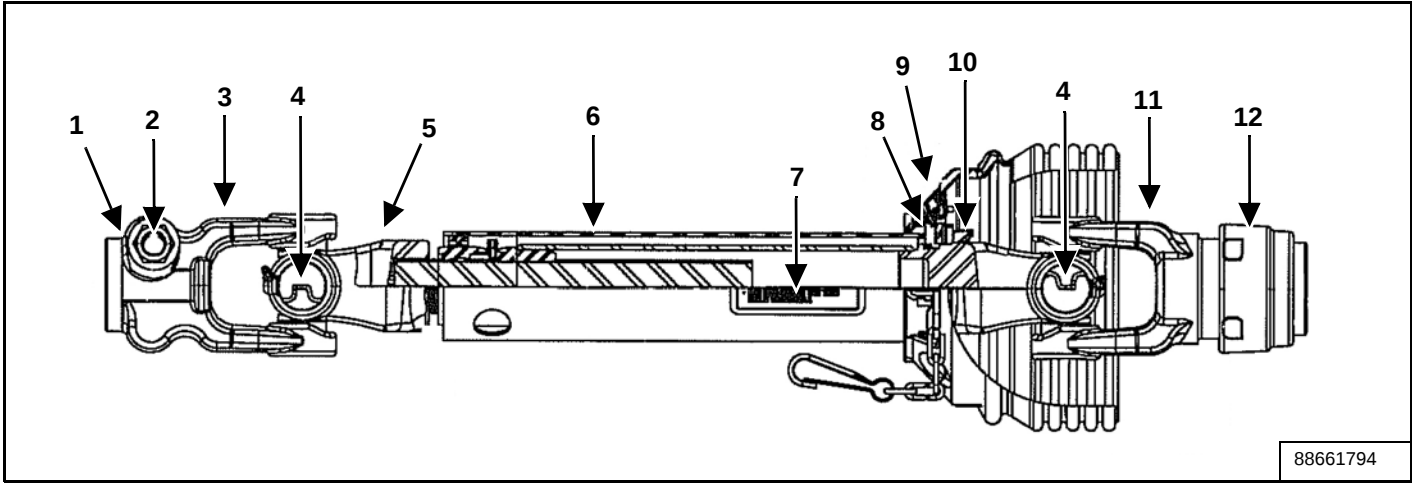
U-joint (55R 1.75 x 1.75)


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661695	SET SCREW, 3/8" - 16 x 0.38" LG	4
2	88661255	YOKE, 55 SERIES	2
3	88661256	CROSS KIT, 55R	1

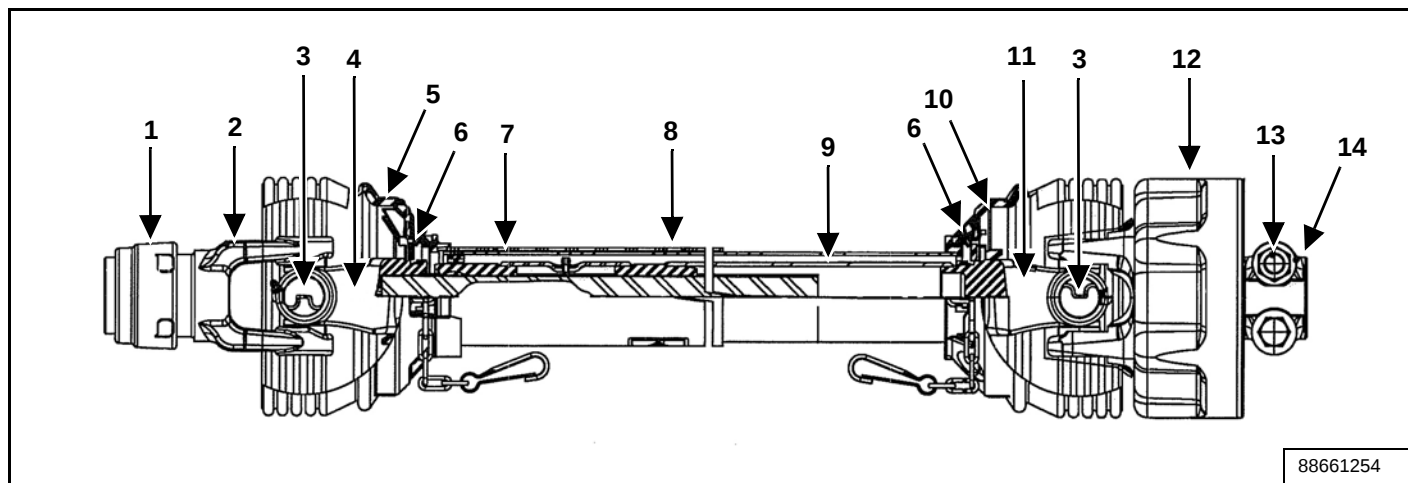
U-joint (55R 1.75 x 2.00)


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661696	SET SCREW, 1/2" - 13 x 0.50" LG	2
2	88661257	YOKE, 55 SERIES, 2" BORE	1
3	88661256	CROSS KIT, 55R	1
4	88661255	YOKE 55 SERIES, 1.75" BORE	1
5	88661695	SET SCREW, 3/8" - 16 x 0.38" LG	2

PTO Shaft (Drag Auger)



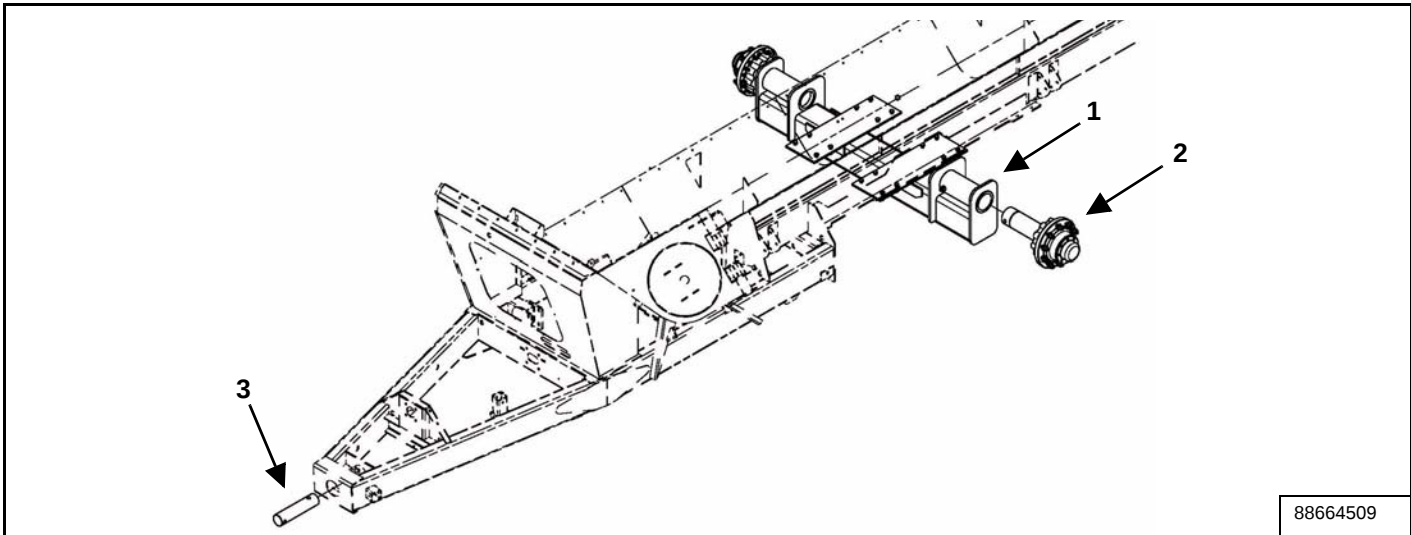
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88662043	LOCKNUT, 5/8" - 11	1
2	88662044	BOLT, 5/8" - 11 x 3.50" LG. GR8	1
3	88662039	YOKE	1
4	88661268	35E CROSS KIT	2
5	88662042	YOKE & SHAFT, 1.31" - 20 SPLINE	1
6	88661272	SAFETY SIGN	1
7	88661274	SAFETY SIGN	1
8	88661271	GUARD REPAIR KIT	1
9	88662040	INNER GUARD	1
10	88662041	YOKE, TUBE & SLIP SLEEVE	1
11	88661267	SAFETY SLIDE LOCK YOKE ASSEMBLY	1
12	88661266	SSL / AUTO-LOK REPAIR KIT	1

PTO Shaft (Auto Clutch)


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661266	KIT, SSL / AUTO-LOK REPAIR	1
2	88661267	YOKE, SAFETY SLIDE LOCK ASSEMBLY	1
3	88661268	CROSS KIT, 35E	2
4	88661269	YOKE & SHAFT ASSEMBLY	1
5	88661270	GUARD, OUTER	1
6	88661271	GUARD REPAIR KIT	1
7	88661272	SAFETY SIGN	1
8	88661273	DECAL, WARNING	1
9	88661274	SAFETY SIGN	1
10	88661275	GUARD, INNER	1
11	88661276	YOKE, TUBE & SLIP SLEEVE ASSEMBLY	1
12	88661277	CLUTCH, AUTO OVERRUNNING	1
13	88661676	BOLT, M18 x 2 x 80 LG., CL 10.9	2
14	88661677	LOCK NUT, M16 x 2	2

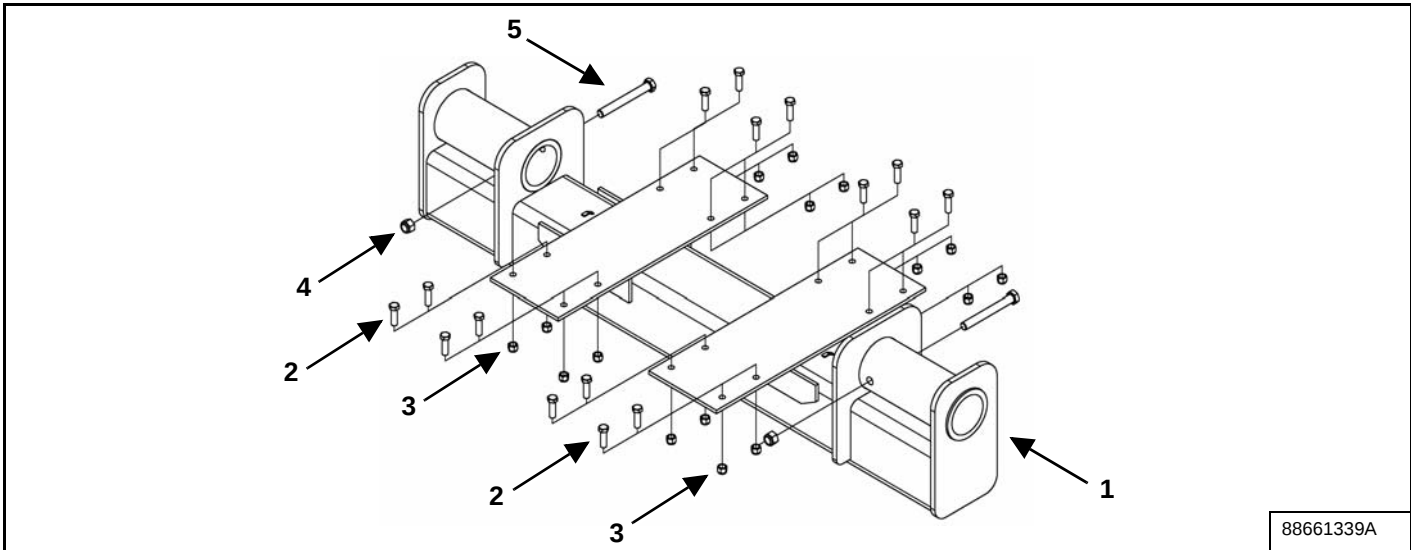
AXLE & HITCH OPTIONS (1060 & 1360 MODELS)

Single Axle Components

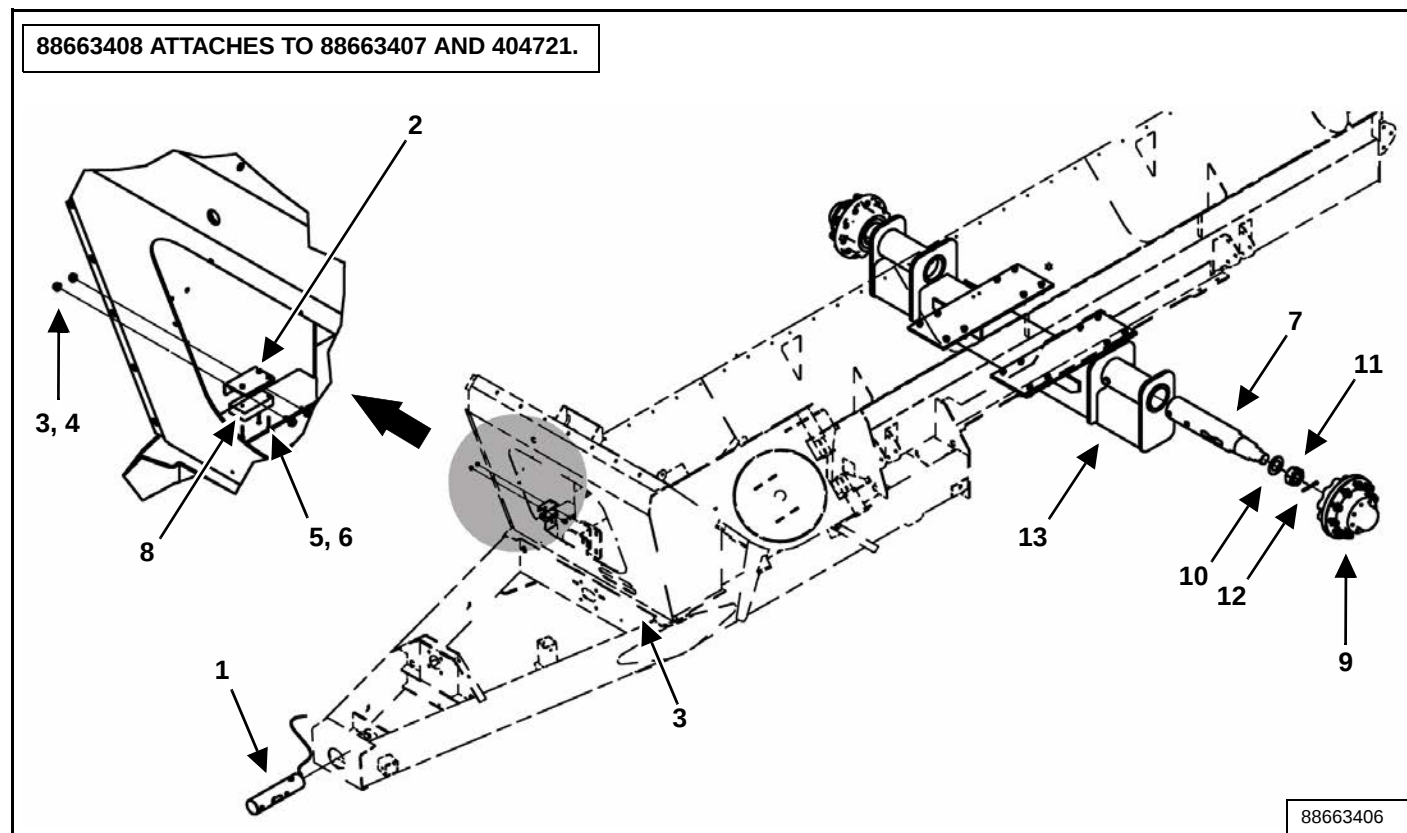


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661339	SINGLE AXLE WELDMENT	1
2	88661222	HUB, SPINDLE ASSEMBLY 35K	2
3	88660403	DRAWBAR, HITCH	1

Single Axle Weldment

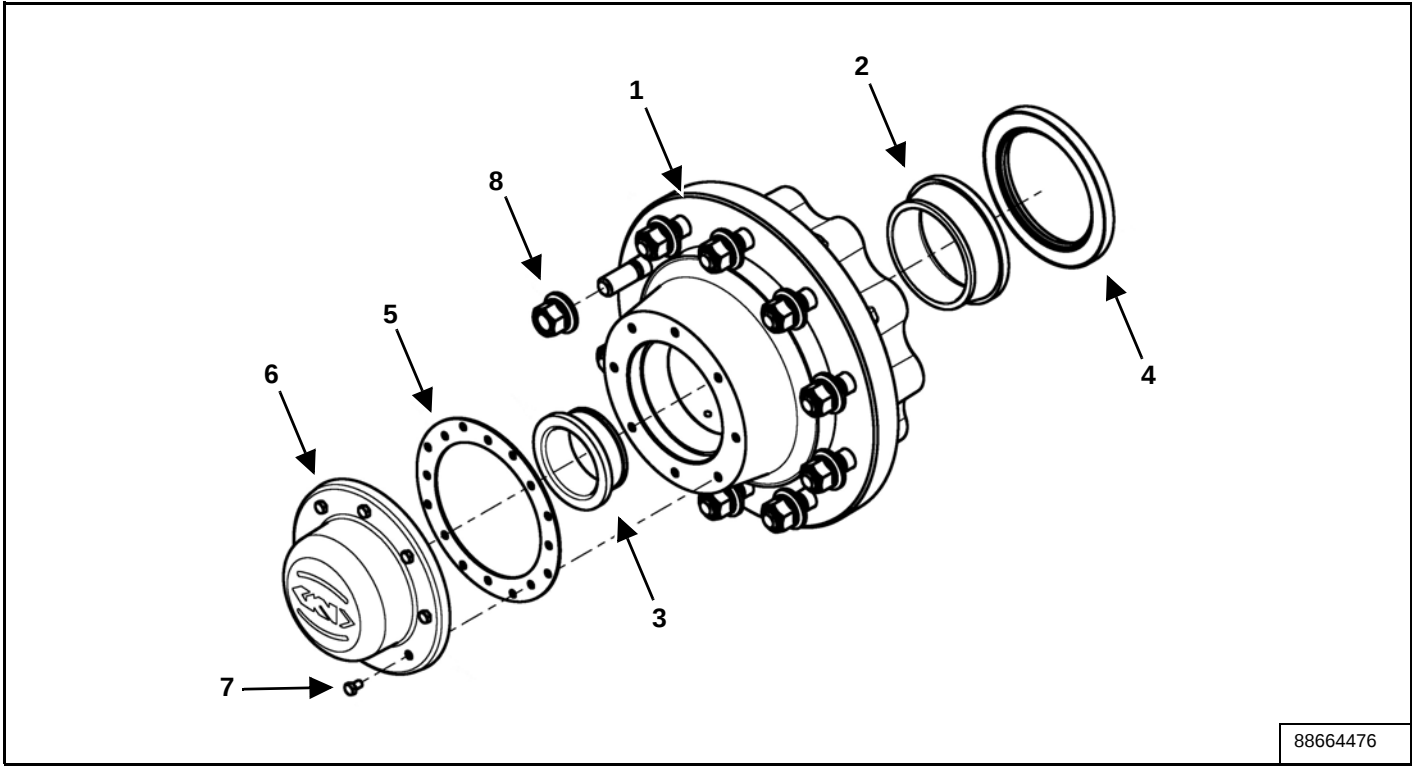


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661180	SINGLE AXLE WELDMENT	1
2	00281074	BOLT, HEX 0.75" x 2.50" GR8 PI	16
3	SXLN-075-NI-YZ	LOCKNUT, 3/4" NYLON INSERT YZ	16
4	88660497	LOCKNUT, NY INSERT 1.00" NF Gr8 PL	2
5	SXBH-100-850-8	CSHH G8P 1.0" x 8.50" 86505346	2

Single Axle Assembly (Scale)


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88663409	CELL 3.75SB 16' EZ MATE	1
2	88664440	FORMED PLATE MOUNT	1
3	88662129	BOLT, 3/8" x 1.00" FLANGE GR5	2
4	88662125	LOCKNUT, FL NI 0.38" GR5 YZ	2
5	88664441	SCREW MACH #8-32 x 1.25" PHIL PAN	3
6	SXLN-08-32-NI	LOCKNUT, #8/32 NYLON INSERT	3
7	88663407	CELL 5.5 SA 1/2 FT EZ MATE	2
8	88663410	PACK UNIV EZ MATE 30 FT EXT	1
	141941	10' EXTENSION CABLE J-BOX	1
	146698	10" POWER CORD (4 WIRE)	1
	833764	IMPORTANT DECAL	1
	404721	M12 - 6 PORT J-BLOCK ASSEMBLY	1
	40722	30' CABLE, M12 MALE x AMP PLUG	1
9	88664476	HUB 35K COMPLETE ASSEMBLY	2
10	88661425	WASHER, 4 1/2 SX 2 5/8" x 1/4"	2
11	88661426	NUT, SPINDLE 2.5" - 12 UN	2
12	88661427	COTTER PIN, 3/8" x 4"	2
13	88661339	AXLE SINGLE ASSEMBLY	1
	88663408	CABLE EZ MATE 21 M/F (NOT SHOWN)	2
	SX21294	HEAVY DUTY CABLE TIE (NOT SHOWN)	8

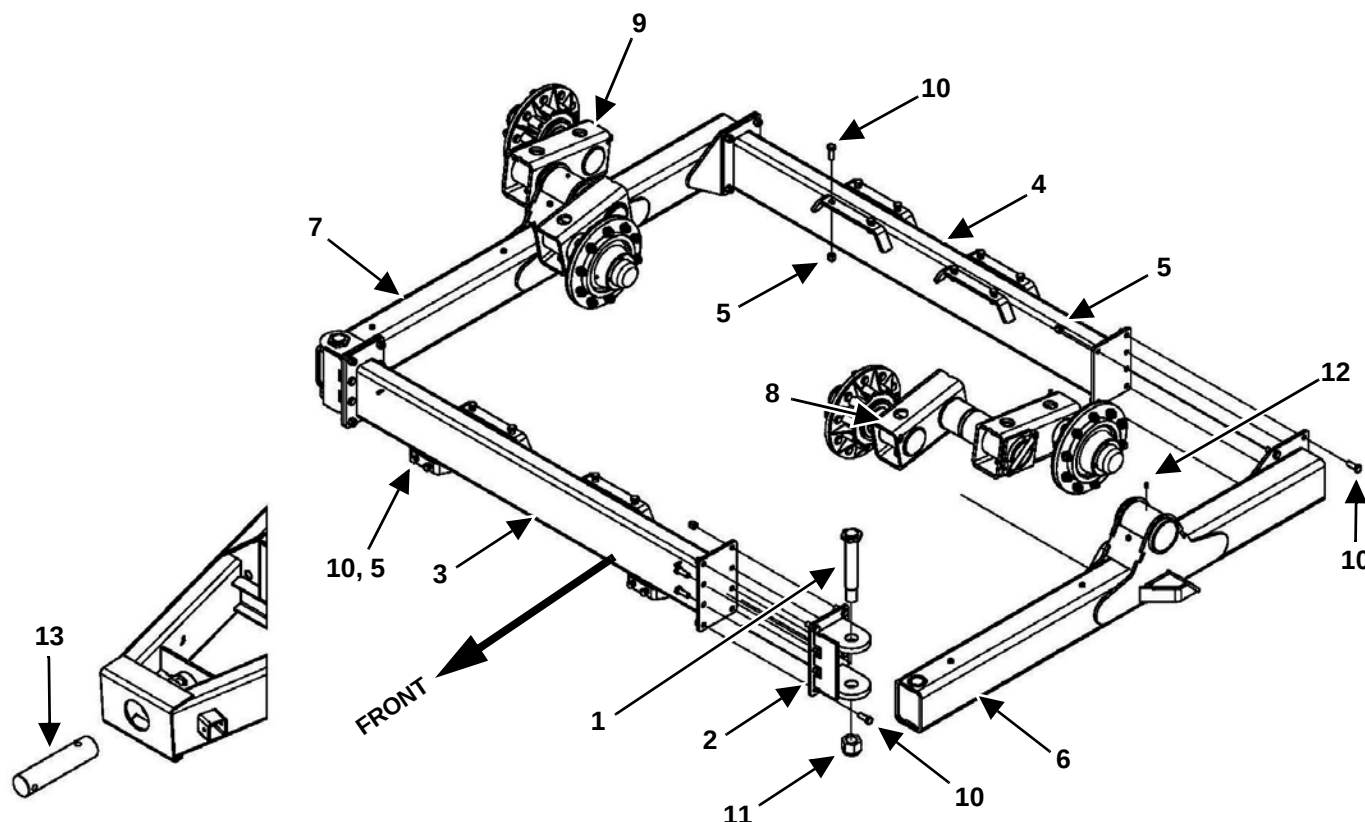
Hub Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88661415	HUB, SUB ASSEMBLY	1
	88661416	HUB MACHINING	1
	88661417	BEARING CUP71750, TIMKEN	1
	88661418	BEARING CUP 653, TIMKEN	1
	88661419	STUD BOLT, M33 x 1.5 x 4" 10.91 BP	10
	88661420	GREASE FITTING, 1/8" - 27 TAPER	1
2	88661421	BEARING CONE 71455, TIMKEN	1
3	88661422	BEARING CONE 663, TIMKEN	1
4	88661423	SEAL, GREASE, PEER (POS5507556SA)	1
5	88661428	HUB CAP OIL PAPER GASKET	1
6	88661429	BOLT ON 35K/50K HUB CAP, ZP	1
7	88661430	BOLT HEX 5/16" x 1/2", GR5, ZP	8
8	88661431	FLANGE NUT, M22 x 1.5", 2 PIECE	10

Walking Tandem Axle Assembly
NOTE:

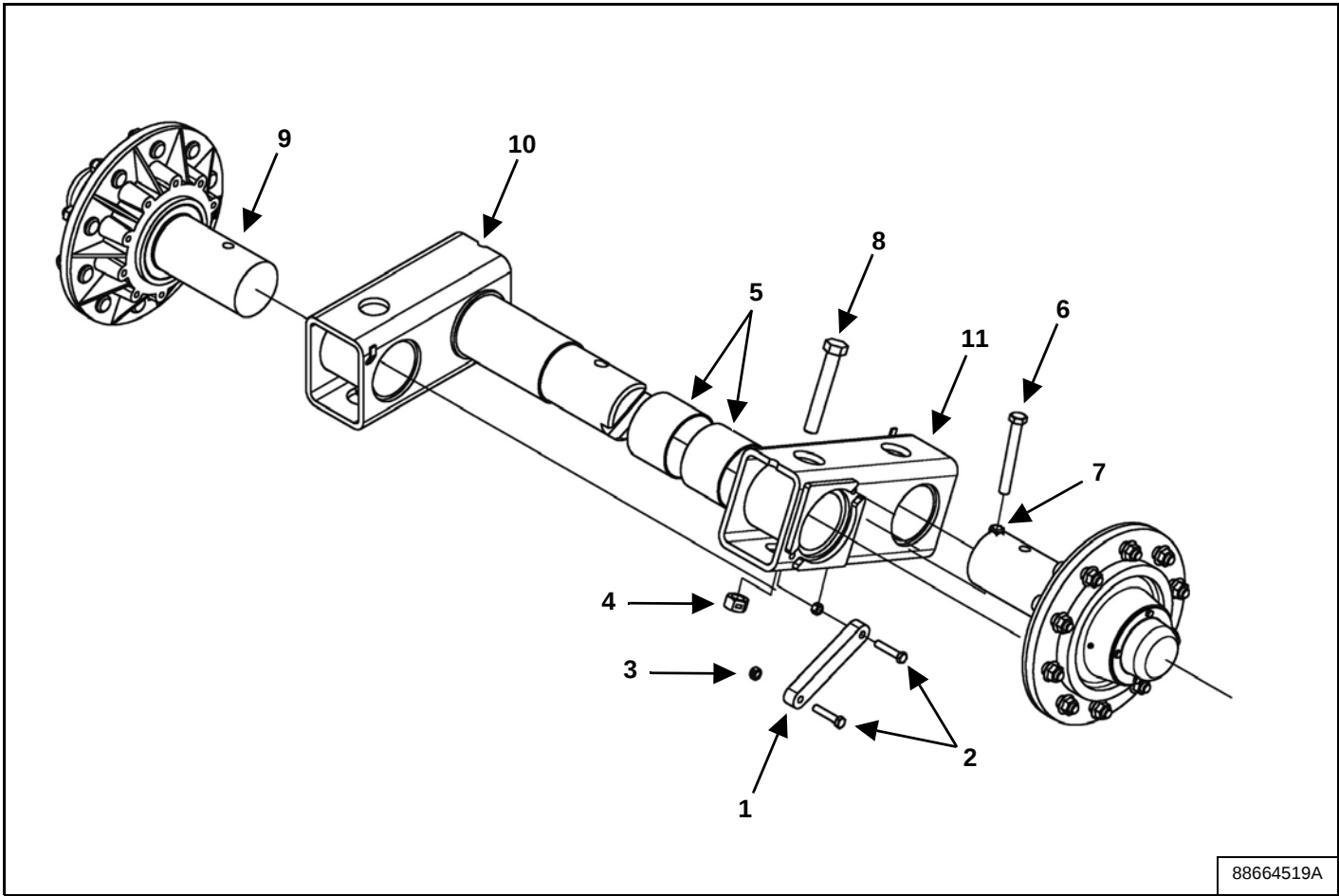
Apply anti-seize to pin (1) 88660481 before installing.



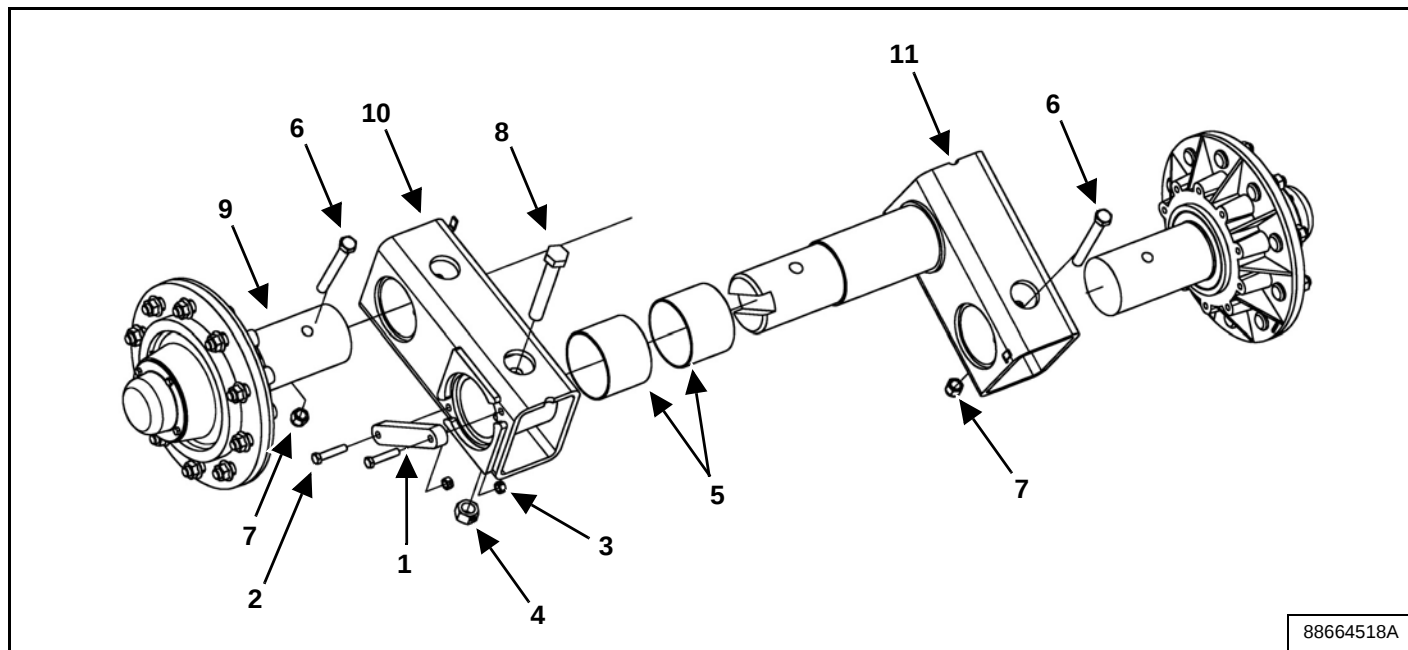
88664517

ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660481	PIN, AXLE WELDMENT	2
2	88660054	AXLE PIVOT WELDMENT	2
3	88660077	FRONT AXLE WELDMENT	1
4	88660083	REAR AXLE WELDMENT	1
5	88660492	LOCKNUT, 3/4" NI GR5 YZ	44
6	88660058	LH SWING AXLE, MACHINED	1
7	88660517	RH SWING AXLE, MACHINED	1
8	88664519	LH TANDEM ROCKER ASSEMBLY	1
9	88664518	RH TANDEM ROCKER ASSEMBLY	1
10	09635076	CSHH 3/4" x 2" GR8 Plt 86505346	44
11	88664416	LOCKNUT, 1 3/4" - 12 GR5 NI PLAIN	2
12	SXG1610	GREASE ZERK, 1/8" N STR.	2
13	88660403	DRAWBAR, HITCH	1

LH Tandem Rocker Assembly



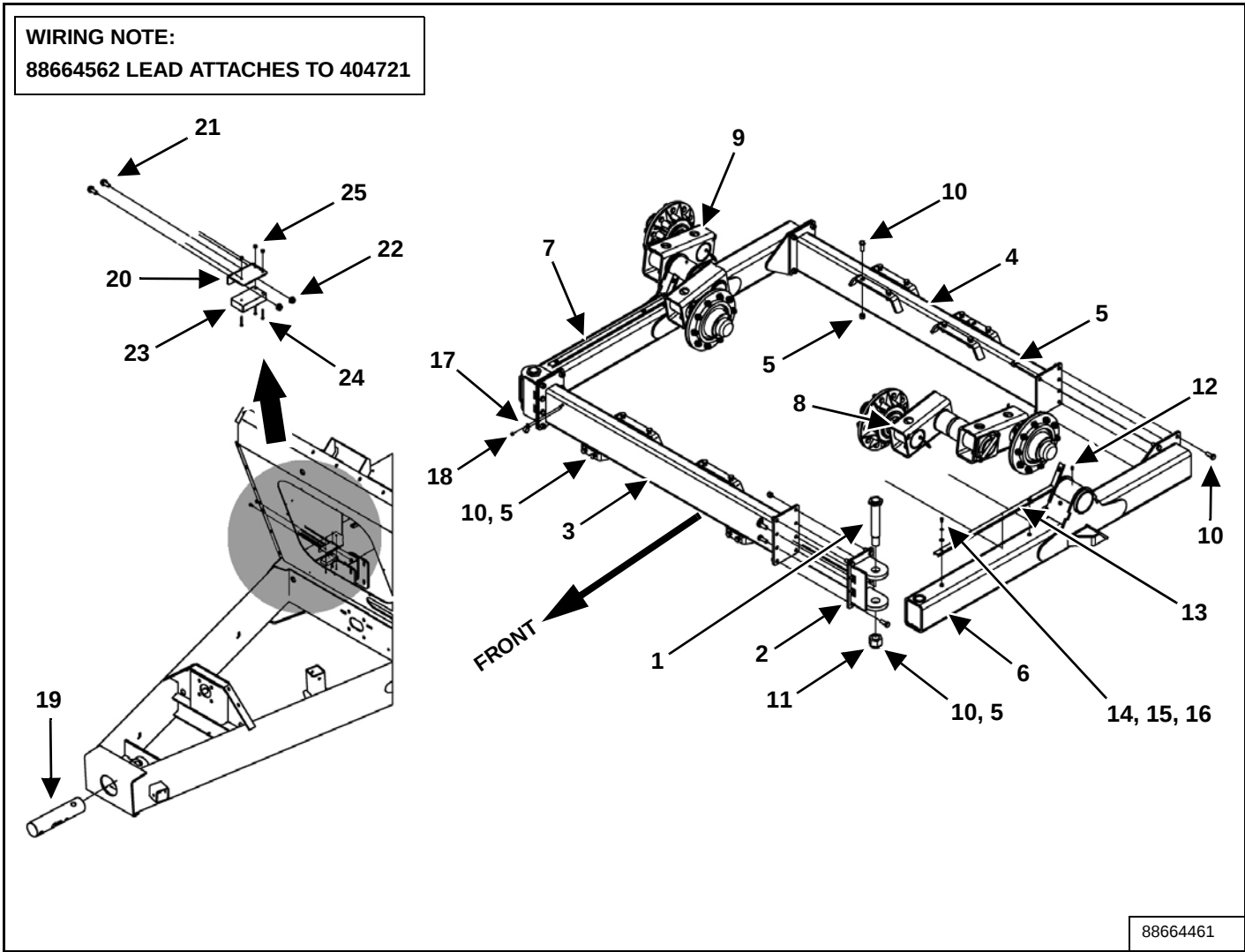
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660630	FLAT, LOCKING	1
2	00811796	BOLT, HEX 0.500" NC x 2.50" GR5 PI	2
3	00812364	LOCKNUT, (Steel) 0.500" NC GRBPL	2
4	88664413	NUT, 1.00" CENTERLOCK YZ	1
5	88661673	BRASS BEARING	2
6	86508735	CSHH G8P 0.75" x 6.00"	2
7	88660492	LOCKNUT, 3/4" NI GR5 YZ	2
8	88664414	CSHH G8P 1.00" x 6.50" 86505346	1
9	88661527	HUB & SPINDLE ASSEMBLY 25K	2
10	88665116	LH INNER TANDEM, MACHINED	1
11	88665119	LH OUTER TANDEM, MACHINED	1

RH Tandem Rocker Assembly


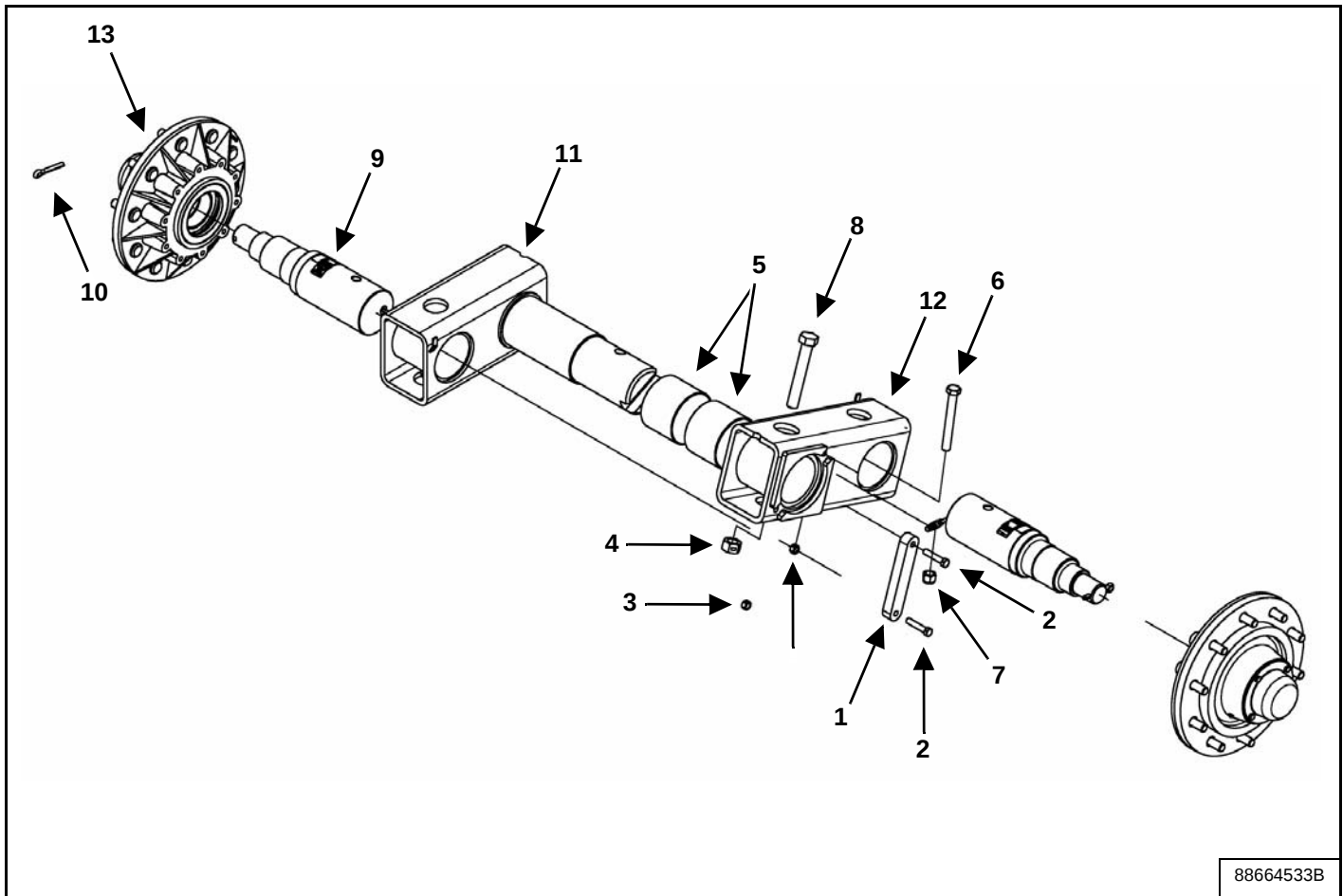
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660630	FLAT, LOCKING	1
2	00811796	BOLT, HEX 0.500" NC x 2.50" GR5 PI	2
3	00812364	LOCKNUT, (Steel) 0.500" NC GRBPL	2
4	88664413	NUT, 1.00" CENTERLOCK YZ	1
5	88661673	BRASS BEARING	2
6	86508735	CSHH G8P 0.75" x 6.00"	2
7	88660492	LOCKNUT, 3/4" NI GR5 YZ	2
8	88664414	CSHH G8P 1.00" x 6.50" 86505346	1
9	88661527	HUB & SPINDLE ASSEMBLY 25K	2
	88660676	HUB ASSEMBLY, 10-BOLT - 13.19" BC	1
	88665597	SPINDLE ASSEMBLY	1
10	88665117	RH INNER TANDEM, MACHINED	1
11	88665118	RH OUTER TANDEM, MACHINED	1

AXLE & HITCH OPTIONS (1060 & 1360 MODELS) (CONT'D)

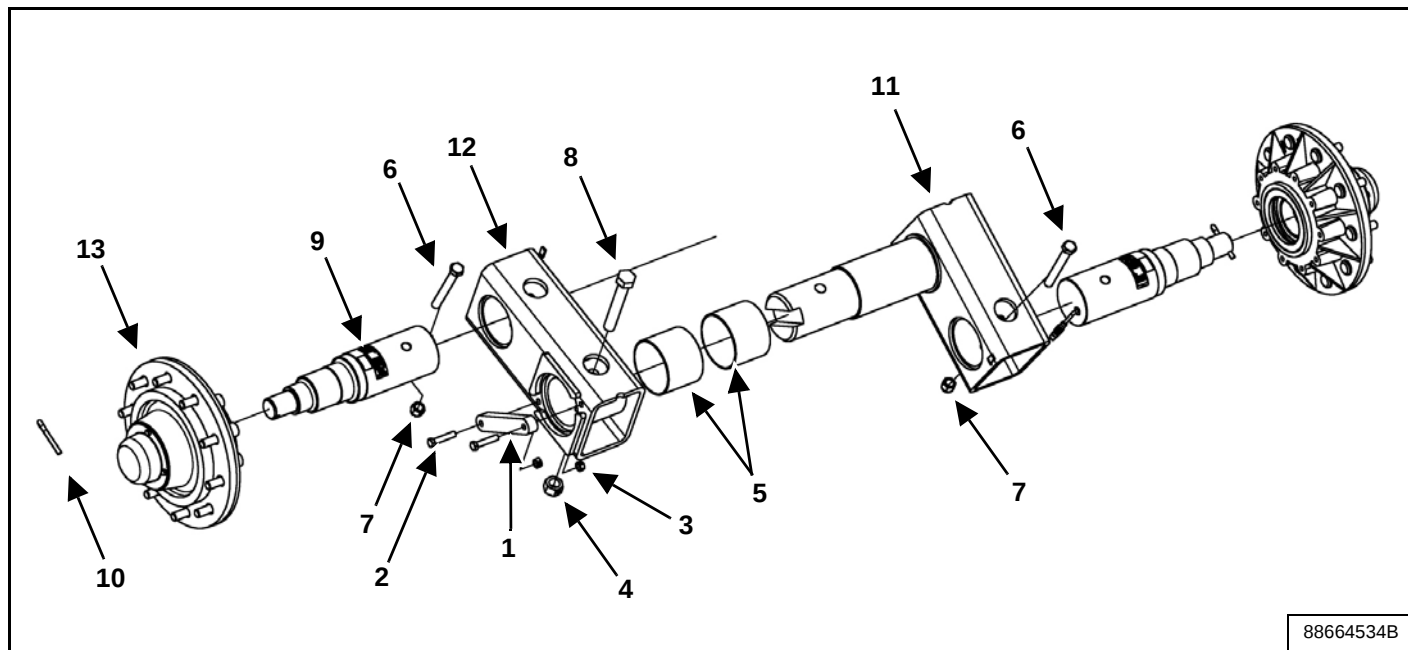
Walking Tandem Axle Assembly (Scale)



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660481	PIN, AXLE WELDMENT	2
2	88660054	AXLE PIVOT WELDMENT	2
3	88660077	FRONT AXLE WELDMENT	1
4	88660083	REAR AXLE WELDMENT	1
5	88660492	LOCKNUT, 3/4" NI GR5 YZ	44
6	88660058	LH SWING AXLE, MACHINED	1
7	88660517	RH SWING AXLE, MACHINED	1
8	88664533	LH TANDEM ROCKER ASSEMBLY	1
9	88664534	RH TANDEM ROCKER ASSEMBLY	1
10	09635076	CSHH 3/4" x 2" GR8 Plt 86505346	44
11	88664416	LOCKNUT, 1 3/4" - 12 GR5 NI PLAIN	2
12	SXG1610	GREASE ZERK, 1/8" N STR.	2
13	88664442	GUARD WIRING SCALES	2
14	SXFW-038 YZ	FLAT WASHER, 5/16" YZ	6
15	81593	LOCK WASHER, 0.375" PL	2
16	00012012	CSHH G5 P 0.38" x 0.75"	6
17	SX0708796	CLIP, INSULATED 1" CLOSED	4
18	SXLN-038-NIYZ	LOCKNUT, 3/8" NYLON INSERT NC. YZ	2
19	88663409	CELL 3.75" SB 16' EZ MATE	1
20	88664440	PLATE, MOUNT FORMED	1
21	88662129	BOLT, 3/8" x 1.00" FLANGE GR5	2
22	88662125	LOCKNUT, 0.38" GR5 FL NI YZ	2
23	88663410	PACK UNIV EZ MATE 30 FT EXT	1
	141941	CABLE J-BOX EXT 10'	1
	146698	POWER CORD 10' 4 WIRE	1
	833764	DECAL IMPORTANT	1
	404721	M12 J-BLOCK 6 PORT ASSEMBLY	1
	404722	CABLE 30' M12 MALE x AMP PLUG	1
24	88664441	MACHINE SCREW #8-32 x 1.25" PHIL PAN	3
25	SXLN-08-32-NI	LOCKNUT, #8/32 NYLON INSERT	3

LH Tandem Rocker Assembly (Scale)


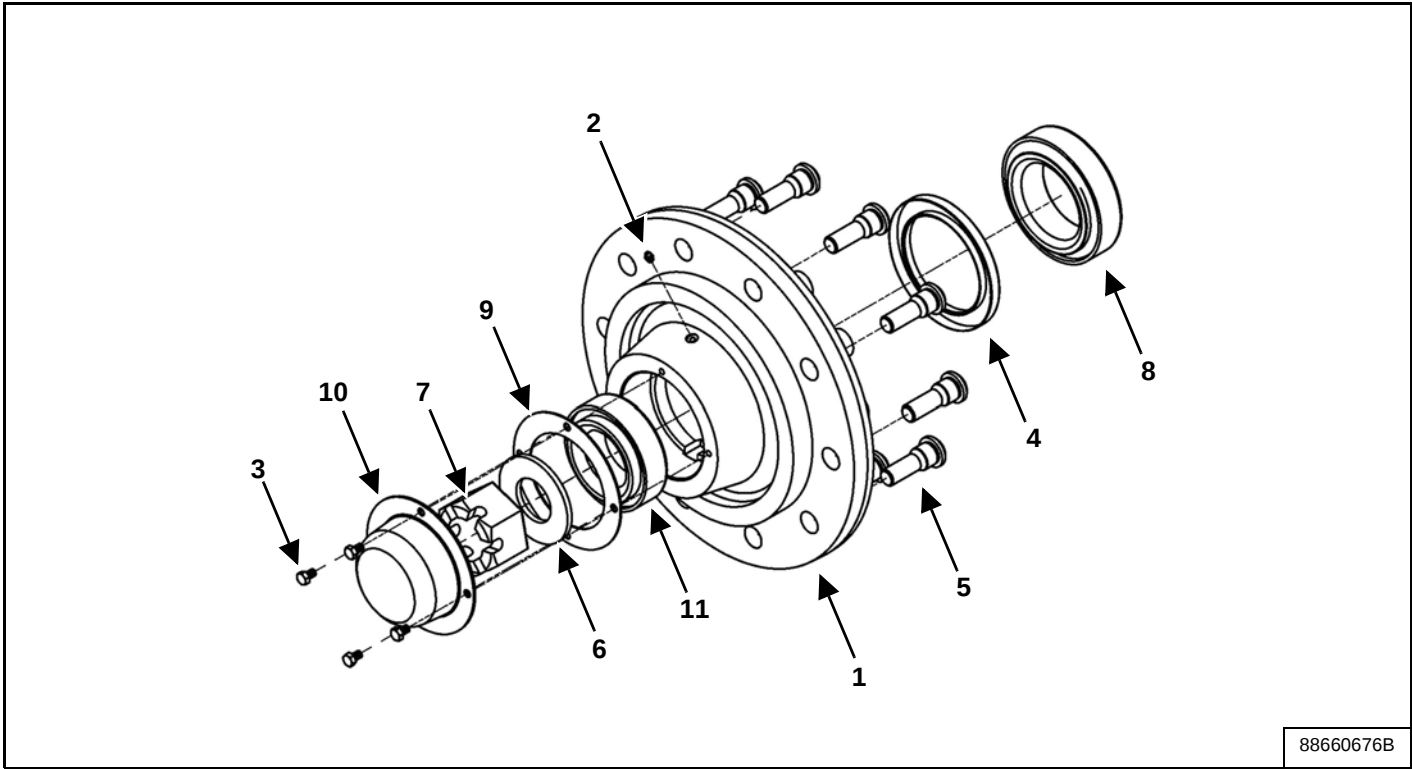
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660630	FLAT, LOCKING	1
2	00811796	BOLT, HEX 0.500" NC x 2.50" GR5 PI	2
3	00812364	LOCKNUT, (Steel) 0.500" NC GRBPL	2
4	88664413	NUT, 1.00" CENTERLOCK YZ	1
5	88661673	BRASS BEARING	2
6	86508735	CSHH G8P 0.75" x 6.00"	2
7	88660492	LOCKNUT, 3/4" NI GR5 YZ	2
8	88664414	CSHH G8P 1.00" x 6.50" 86505346	1
9	88664562	CELL 4.5 SA 21' EZ MATE	2
10	88664563	COTTER PIN, 3/16" x 2 - 1/4"	2
11	88665116	LH INNER TANDEM, MACHINED	1
12	88665119	LH OUTER TANDEM, MACHINED	1
13	88660676	HUB ASSEMBLY, 10-BOLT - 13.19 BC	2

RH Tandem Rocker Assembly (Scale)


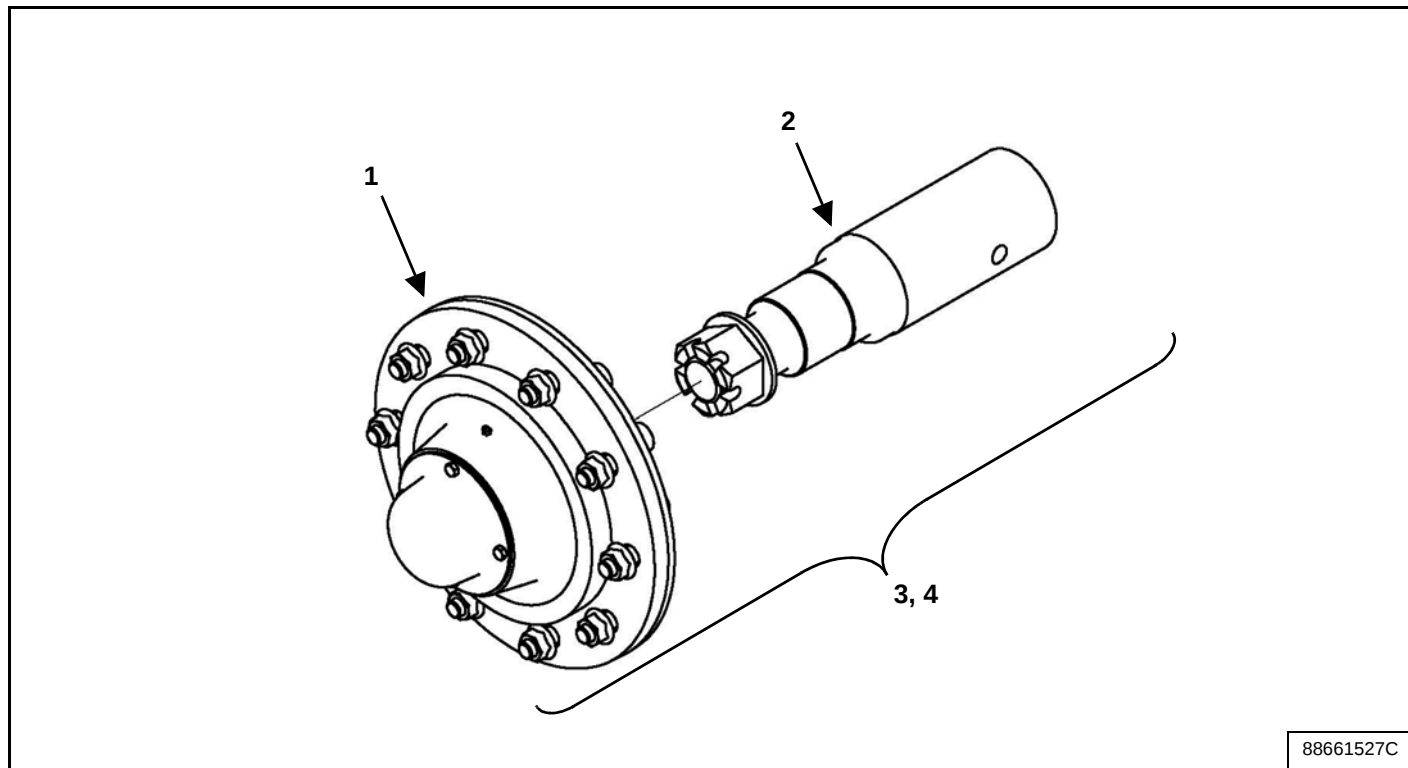
88664534B

ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660630	FLAT, LOCKING	1
2	00811796	BOLT, HEX 0.500" NC x 2.50" GR5 PI	2
3	00812364	LOCKNUT, (Steel) 0.500" NC GRBPL	2
4	88664413	NUT, 1.00" CENTERLOCK YZ	1
5	88661673	BRASS BEARING	2
6	86508735	CSHH G8P 0.75" x 6.00"	2
7	88660492	LOCKNUT, 3/4" NI GR5 YZ	2
8	88664414	CSHH G8P 1.00" x 6.50" 86505346	1
9	88664562	CELL 4.5 SA 21' EZ MATE	2
10	88664563	COTTER PIN, 3/16" x 2 - 1/4"	2
11	88665117	RH INNER TANDEM, MACHINED	1
12	88665118	RH OUTER TANDEM, MACHINED	1
13	88660676	HUB ASSEMBLY, 10-BOLT - 13.19 BC	2

Hub Assembly (10-Bolt, 13.19 BC)



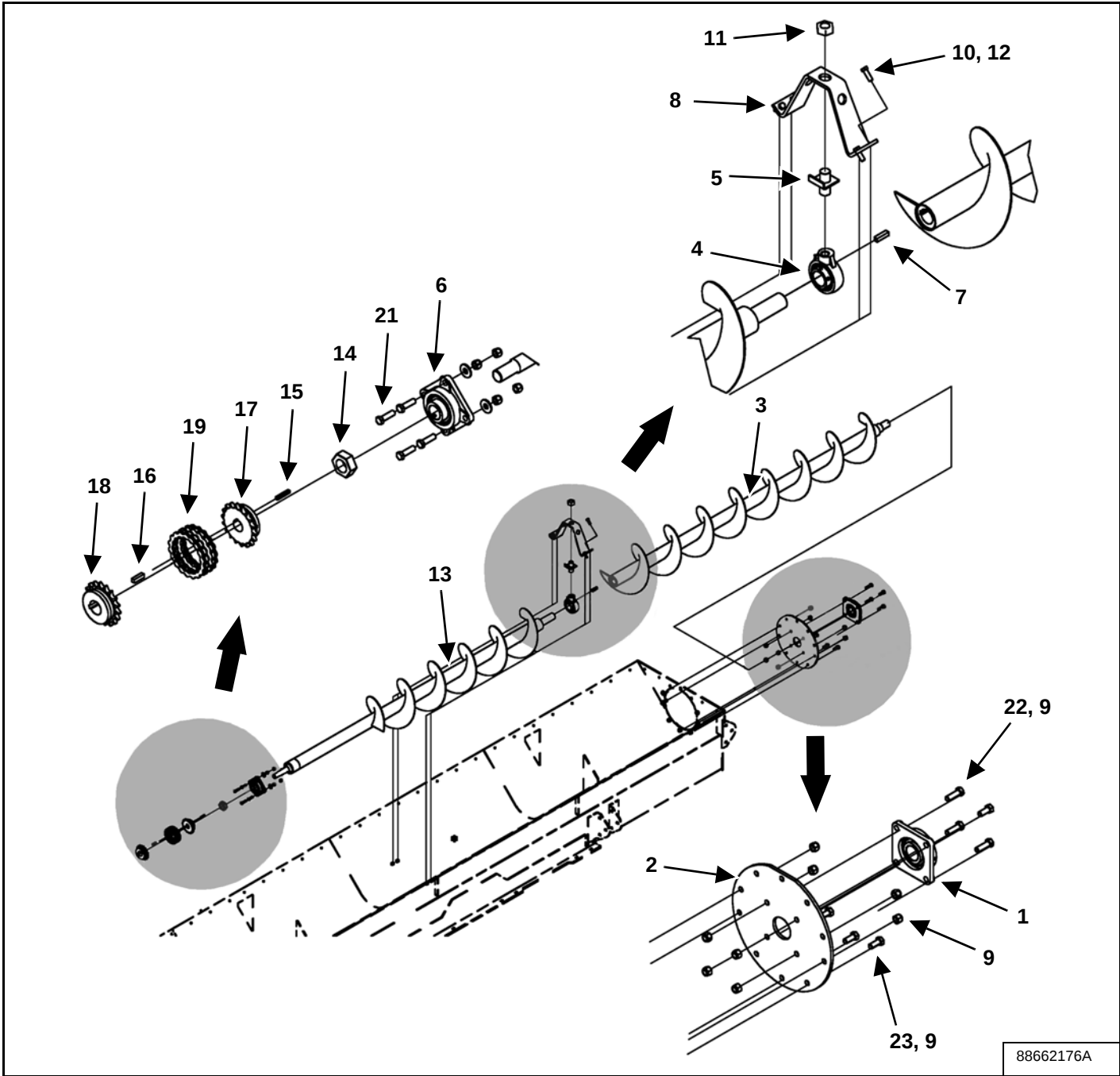
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660662	HUB, 10-BOLT, 13.19" BC	1
2	88660661	GREASE FITTING	1
3	88660663	HUB CAP BOLT	4
4	88660664	GREASE SEAL	1
5	88660665	WHEEL STUD	10
6	88660666	WASHER	1
7	88660667	CASTLE NUT	1
8	88660668	BEARING	1
9	88660669	GASKET	1
10	88660670	HUB CAP	1
11	88661532	OUTER CONE	1

Hub & Spindle Assembly (25K)


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660676	HUB ASSEMBLY, 10 BOLT - 13.19 BC	1
2	88665597	SPINDLE ASSEMBLY	1
3	88664705	GREEN HUB & SPINDLE 25K ASSEMBLY	1
	86511034	STANDARD PREMIUM PERFORMANCE PAINT	-
	86505496	BUHLER GREEN COLOR	-
4	88661527	RED HUB & SPINDLE 25K ASSEMBLY	1
	86511034	STANDARD PREMIUM PERFORMANCE PAINT	-
	86027517	BUHLER RED COLOR	-

DRAG AUGER ASSEMBLY

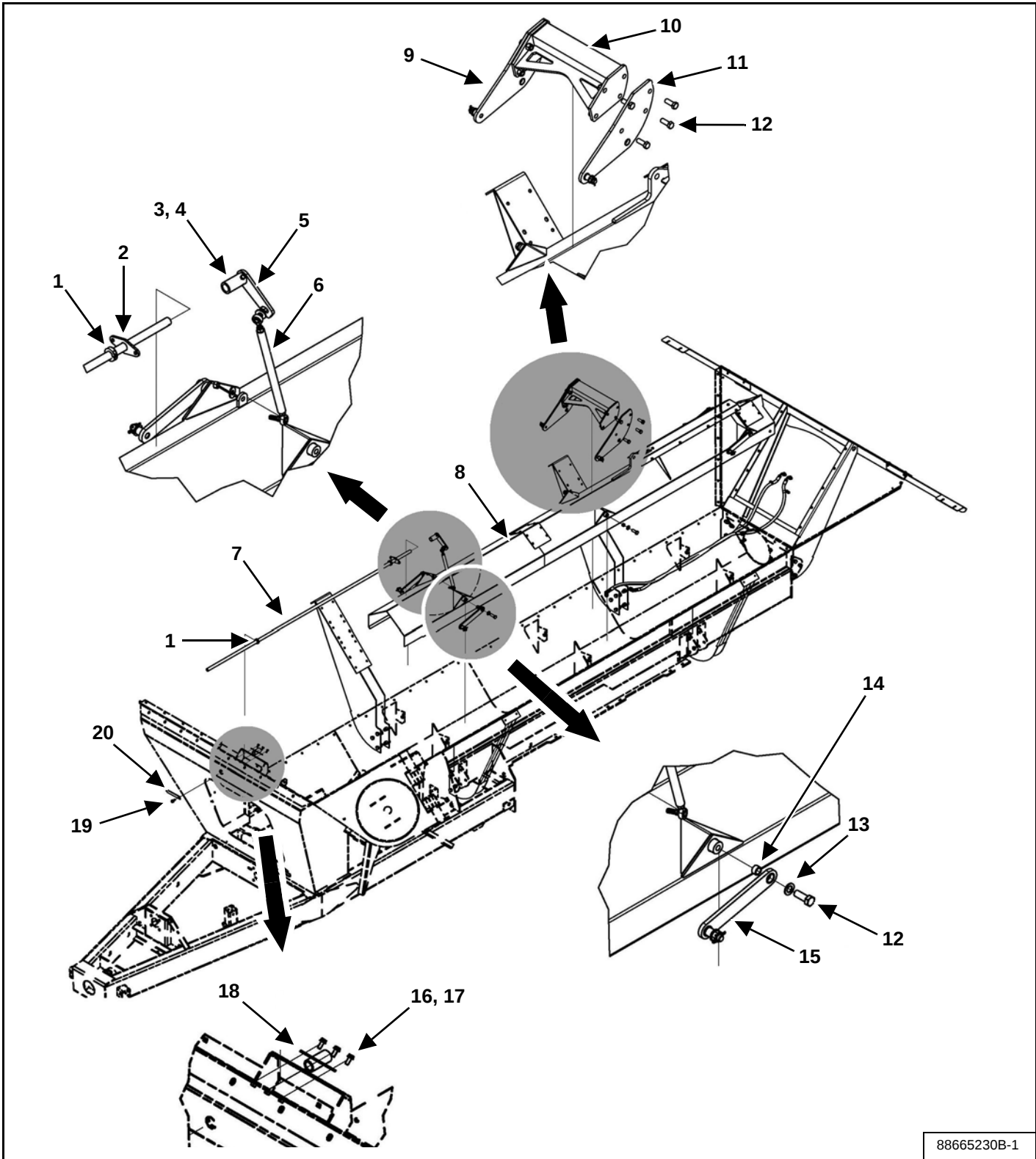
Components



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660382	BEARING, 4-BOLT FLG 2"	1
2	88660306	COVER PLATE, REAR ACCESS	1
3	88660377	DRAG AUGER, REAR, WELDMENT	1
4	88660406	HANGER BEARING, 2"	1
5	88660423	HANGER BEARING MOUNT, WELDMENT	1
6	88660405	BEARING, 4-BOLT FLANGE, 1-1/2"	1
7	88660570	KEY SQ, 1/2" x 2"	1
8	88660558	HANGER BEARING MOUNTING BRACKET	1
9	SXLN-062-NI-YZ	LOCKNUT, 5/8" NYLON INSERT YZ	11
10	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	8
11	SXNUT-125-JF	NUT, 1.25" - 12 UNF	1
12	SXBH0501505YZ	BOLT, 1/2" x 1.50" GR5	4
13	88660383	DRAG AUGER, FRONT, WELDMENT	1
14	88660569	NUT, JAM, 1 1/2" - 12 UNF	1
15	88662165	KEY SQ, 1/4"	1
16	88662166	KEY SQ, 3/8"	1
17	88662005	SPROCKET, 6018 x 1.250 ID	1
18	88662006	SPROCKET, 6018 x 1.500 ID	1
19	88662007	CHAIN, ROLLER, 60 - 2	1
20	SXFW-050YZ	FLATWASHER, 1/2"	4
21	SXBH0501755YZ	BOLT, 1/2" x 1.75" GR5	4
22	86505999	CSHH G5P 0.62" x 2.00" 86505344	3
23	00088062	CSHH G5P 0.62" x 1.50" 86505344	4

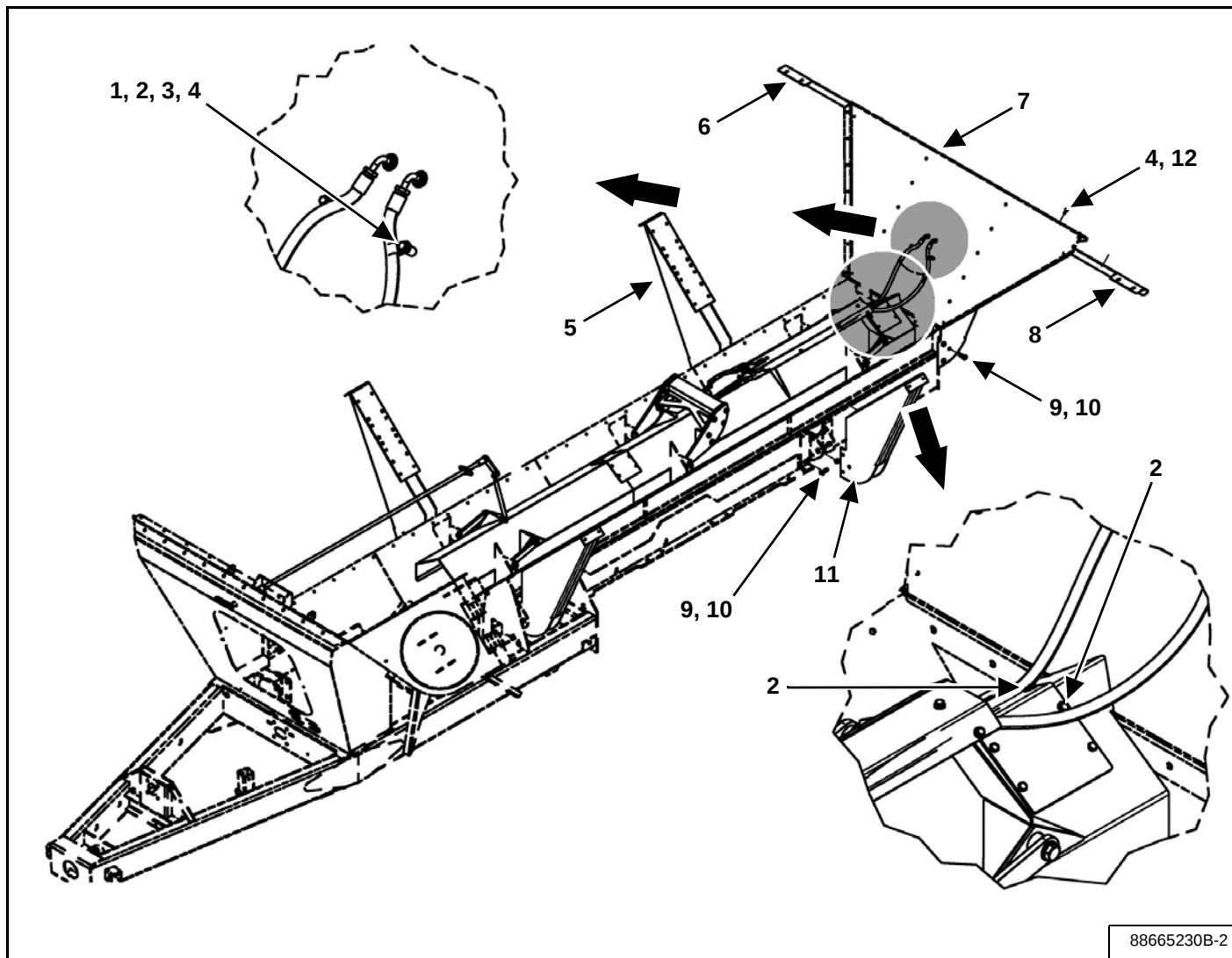
DRAG AUGER GATE ASSEMBLY (1060 & 1360 MODELS)

Components



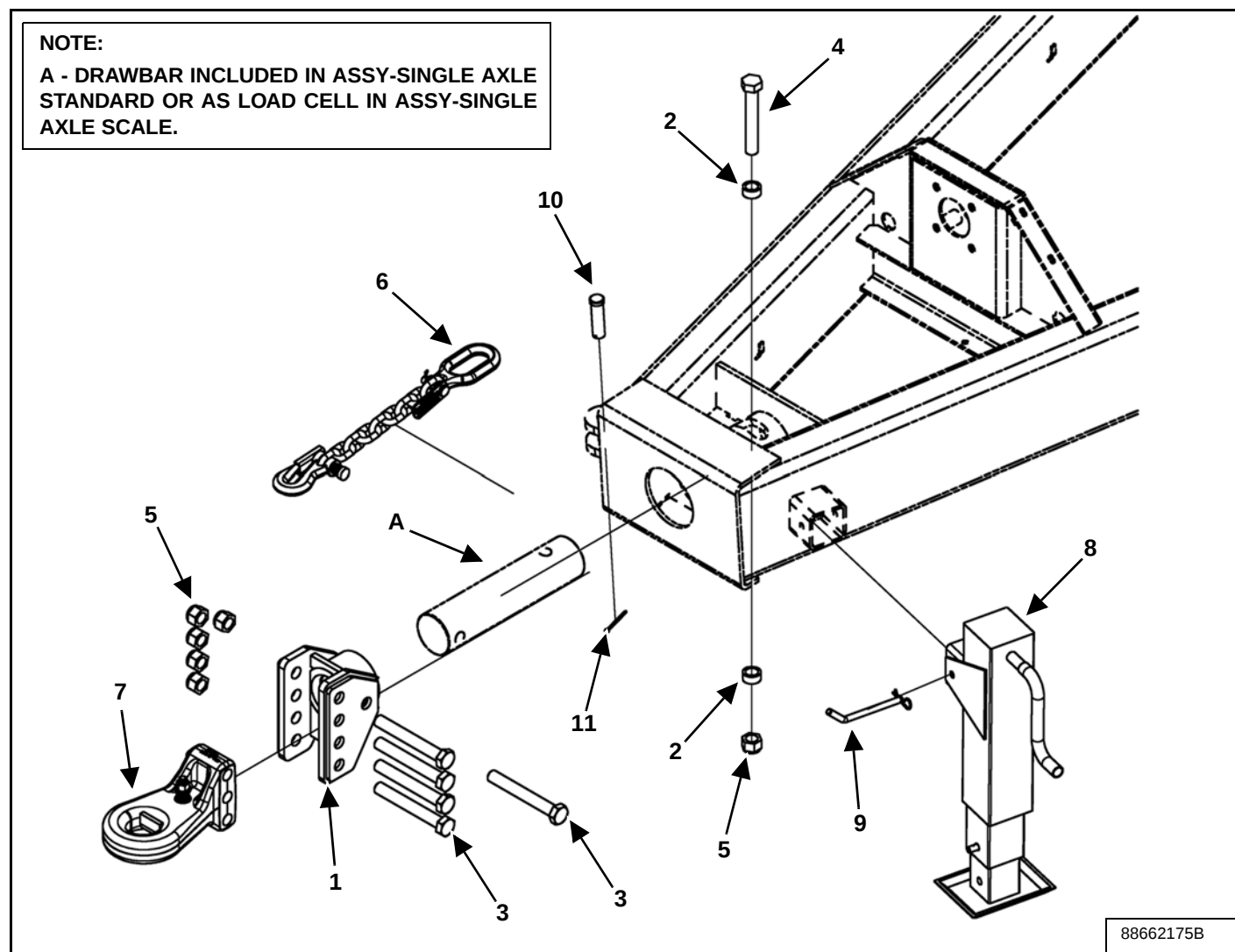
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665595	COLLAR, 1.00" SHAFT SET DBL SPLT	2
2	88665217	INDICATOR SUPPORT PLATE	1
3	SXLN-031-NIYZ	LOCKNUT, 5/16" NYLON INSERT YZ	1
4	SXBH0312505YZ	BOLT, 5/16" x 2-1/2" GR5 YZ	1
5	88665222	GATE INDICATOR BOLT-ON WELDMENT	1
6	88665226	GATE OPEN INDICATOR ASSEMBLY	1
7	88665219	GATE INDICATOR LONG SHAFT	1
8	88663995	FLOW CONTROL GATE ASSEMBLY	1
9	88663997	RH CENTER LIFT ASSEMBLY	1
10	88665210	GATE CYLINDER LIFT WELDMENT	1
11	88664000	LH CENTER LIFT ASSEMBLY	1
12	09635076	CSHH 3/4" x 2" GR8 PLT 86505346	9
13	SXFW-075-SAE-YZ	FLATWASHER, SAE 3/4" YLLWZN	4
14	88665209	BUSHING, GATE PIVOT SPACER	4
15	88665206	GATE LIFT LINK ASSEMBLY	4
16	88662125	LOCKNUT, 0.38" FL NI GR5 YZ	3
17	88662129	BOLT, 3/8" x 1.00" FLANGE GR5	3
18	88661019	SUPPORT, SHAFT WELDMENT	1
19	SXBHF0501258YZ	BOLT, 1/2" x 1.50" HEX FLANGE GR8-YZ	1
20	88660954	INDICATOR, FLAT	1

Components (Cont'd)

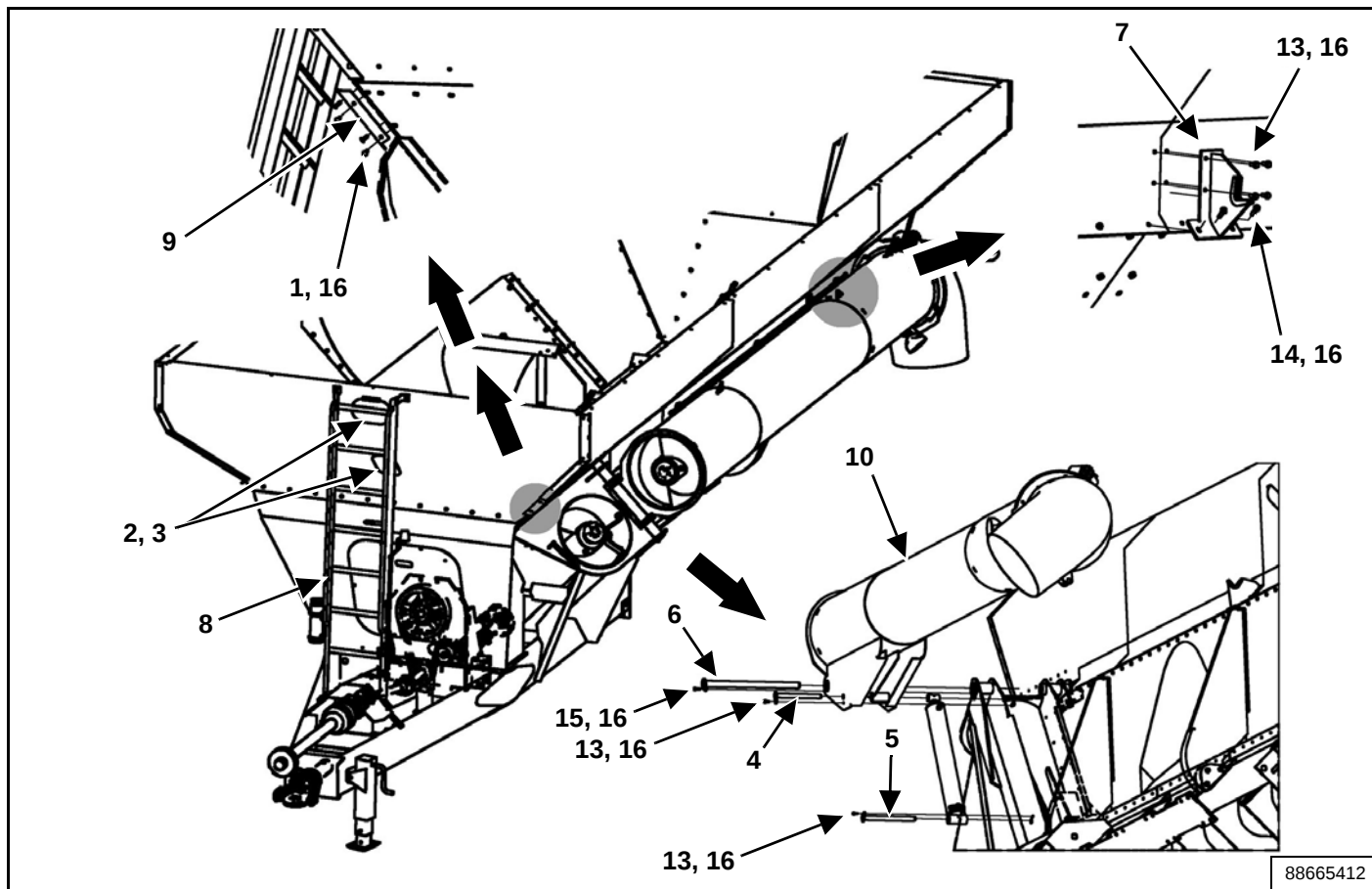


88665230B-2

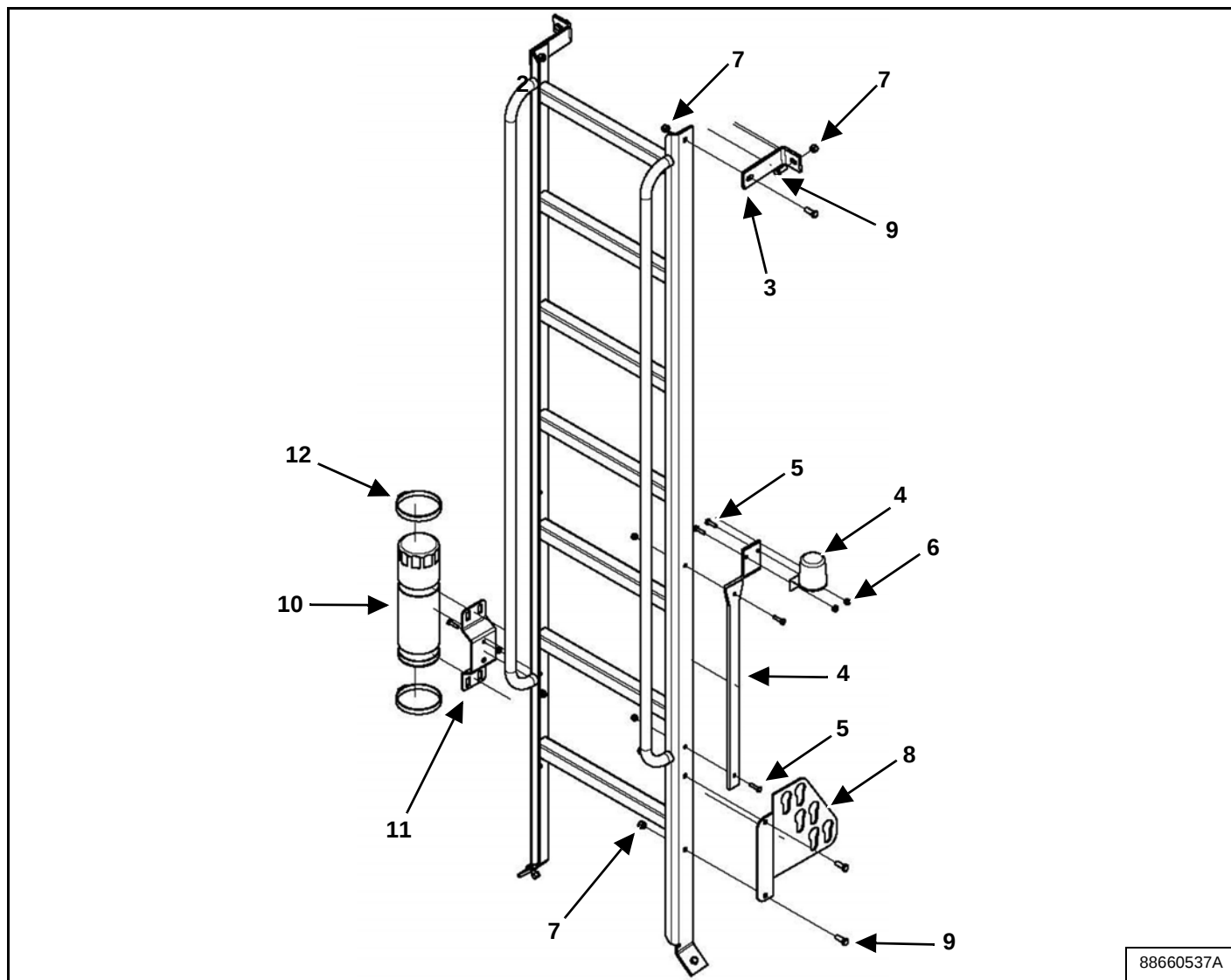
ITEM	PART NUMBER	DESCRIPTION	QTY
1	SXBHF0381758YZ	BOLT, 3/8" x 0.75" FLANGE GR8 YLLWZN	2
2	88665548	CLIP, INSULATED 0.625 CL 0.406 HOLE	4
3	88665549	SPACER, 5/8" OD x 0.407" ID x 1.00"	2
4	88662125	LOCKNUT, 0.38" FL NI GR5 YZ	10
5	88660067	RH STANCHION, WELDMENT	2
6	88660477	RH LIGHT MOUNTING BRACKET	1
7	88660049	REAR STANCHION, WELDMENT	1
8	88660478	LH LIGHT MOUNTING BRACKET	1
9	88660492	LOCKNUT, 3/4" NI GR5 YZ	38
10	09635076	CSHH 3/4" x 2" GR8 PLT 86505346	38
11	88660063	LH STANCHION, WELDMENT	2
12	SXBHF0381255YZ	BOLT, 3/8" x 1.25" HEX FLANGE G5 YZ	4

HITCH AND JACK ASSEMBLY
Components


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660072	HITCH MOUNT, WELDMENT	1
2	88660407	ROUND, 1.5" OD x 1.03" ID x 0.69" LG	2
3	88660495	BOLT, HEX 1.00" x 7.50" NF, GR8 PI	5
4	88660496	BOLT, HEX 1.00" x 6.50" NF, GR8	1
5	88660497	LOCKNUT, 1.00" NYLON INSERT, NF GR8	6
6	88660499	CHAIN, AG SAFETY, 40,000 LB	1
7	88661392	HITCH, PINTLE, CAT. 4-5 CROSSOVER	1
8	88661668	JACK, 10000 LB SIDEWIND, WELDMENT	1
9	88662159	PIN, BENT, W/HAIRPIN	1
10	88665547	CLEVIS PIN, 1" x 3 1/2" ZINC	1
11	PCT-018-225	COTTER PIN, 3/16" x 2 1/4"	1

UPPER FRAME ASSEMBLY (1060 & 1360 MODELS)
Upper Frame Components


ITEM	PART NUMBER	DESCRIPTION	QTY
1	86508773	CB G5 P 0.38" x 1.25" 86505609	4
2	88660288	WINDOW, CLEAR, FILL LEVEL	2
3	88660289	WINDOW SEAL EDGE TRIM, 6'	1
4	88660436	CYLINDER PIN, 1.25" x 13.38"	1
5	88660438	CYLINDER PIN, 1.25" x 15.38"	1
6	88660441	TOP AUGER PIN WELDMENT	1
7	88660470	AUGER SUPPORT WELDMENT	1
8	88660537	LADDER ASSEMBLY	1
9	88660588	BIN SPLICE PLATE	1
10	88665336	ASSY, UPPER AUGER	1
11	SX018096	ABRASION GUARD, 3.66" ID x 7', BLK, NY	1
12	SX3NS12	STRAP, 11 1/4" BLA21	8
13	SXBHF0381008YZ	BOLT, 3/8" x 1.00" FLANGE GR8 YLLWZN	6
14	SXBHF0381255YZ	BOLT, 3/8" x 1.25" HEX FLANGE, G5 YZ	2
15	SXBHF0381508YZ	BOLT, 3/8" x 1.50" FLANGE GR8 YLLWZN	1
16	SXNTFTL038168YZ	NUT, 3/8"-16 UNC FLANGE, TP LCK, G8YZ	13

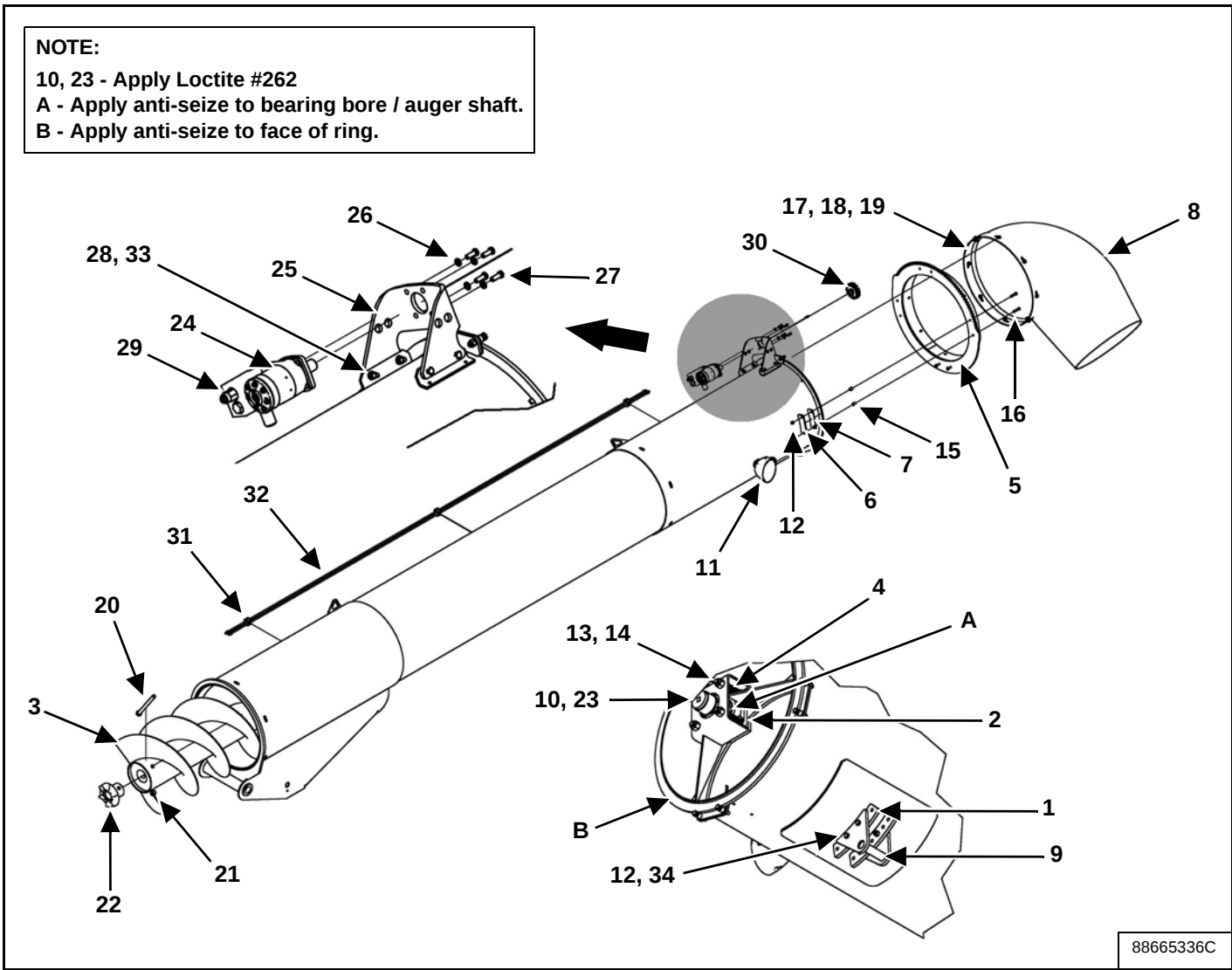
LADDER GROUP (1060 & 1360 MODELS)
Ladder Assembly


88660537A

ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660367	LADDER WELDMENT	1
2	88660414	HOSE HOLDER PLATE	1
3	88660415	LADDER MOUNTING PLATE BRACKET	2
4	88660521	ELECTRICAL PLUG HOLDER	1
5	SXBH-025-100-5-YZ	BOLT, 1/4" x 1" GR5	5
6	SXLN-025-NIYZ	LOCKNUT, 1/4" NYLON INSERT	5
7	SXLN-038-NI-YZ	LOCKNUT, 3/8" NYLON INSERT NC YZ	9
8	88662389	HYDRAULIC HOSE RACK	1
9	SXBH0381005YZ	BOLT, 3/8" x 1" YLLW ZN	9
10	SX013049	MANUAL STORAGE TUBE	1
11	88663968	MANUAL HOLDER MOUNTING PLATE	1
12	SX64J	HOSE CLAMP, 4" WORM SCREW	2

UPPER AUGER ASSEMBLY (1060 & 1360 MODELS)

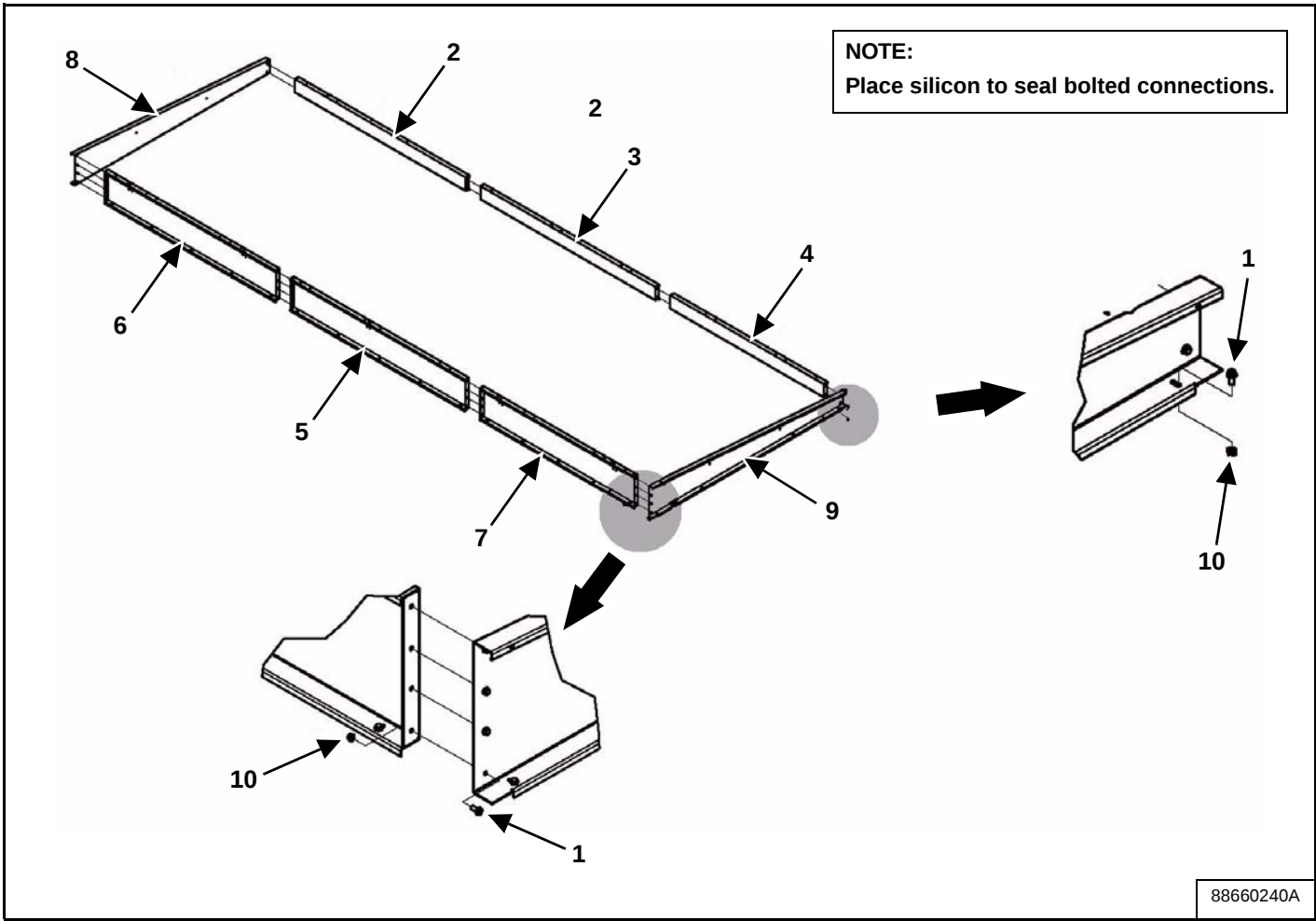
Upper Auger Components



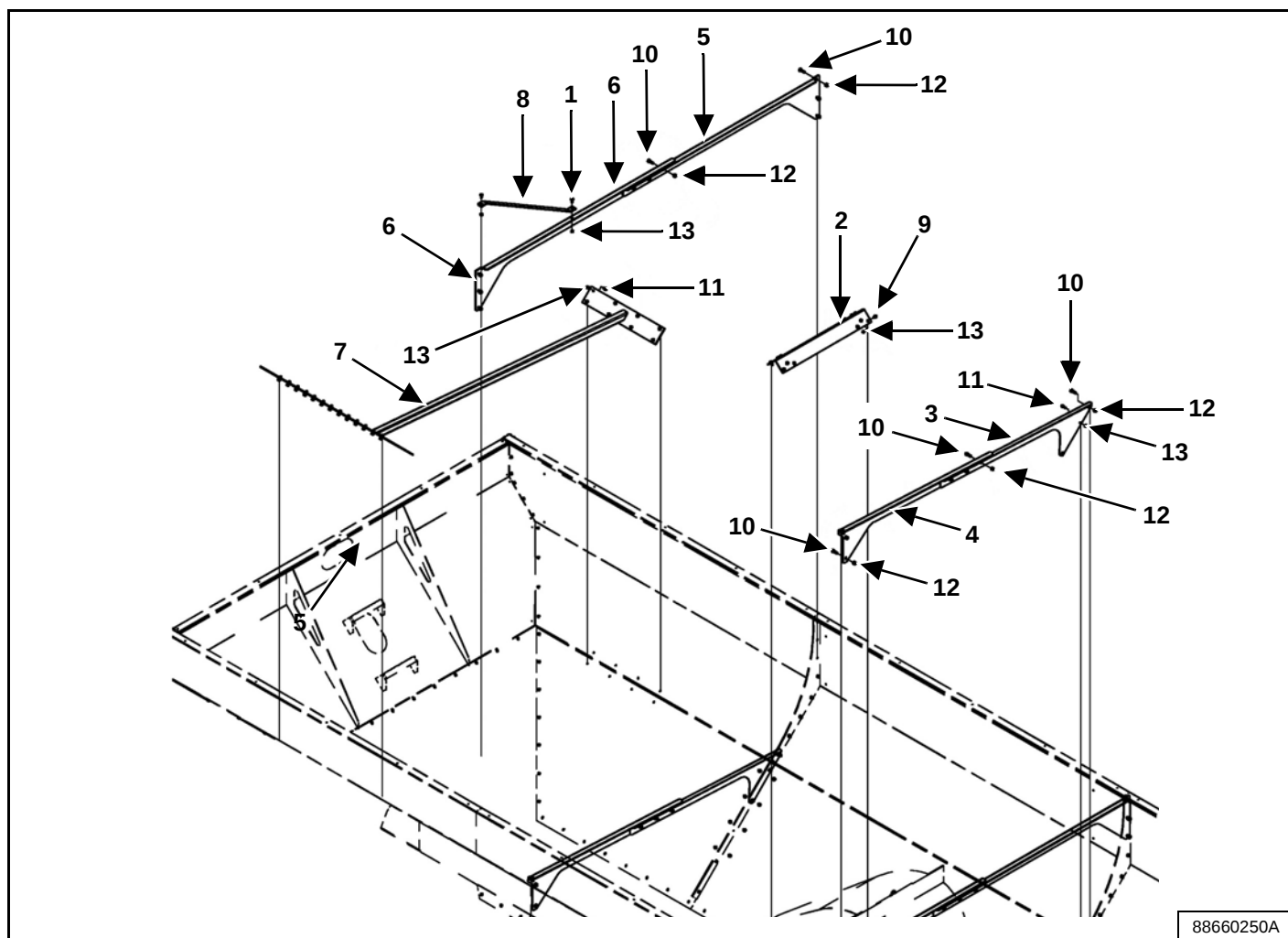
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665658	UPPER AUGER WELDMENT	1
2	88660360	BEARING, 4-BOLT FLG, 1-3/4" SHAFT	1
3	88660353	TOP AUGER WELDMENT	1
4	88660361	COMPRESSION SPRING	4
5	88663964	OUTLET SPOUT RING WELDMENT	1
6	88660350	SPOUT BACKPLATE, MOUNTING PLATE	4
7	88660351	NYLON SLIDE PLATE	4
8	88660326	MOLDED PLASTIC OUTLET SPOUT	1
9	88660467	AUGER CRADLE WELDMENT	1
10	88660485	WELDMENT, NUT, 1-3/4"-12 UNF	1
11	SX016809	LIGHT, SIDE, FLOOD	1
12	00080463	LOCKNUT 0.38" NC (NYLON) GR5 PI	12
13	81967BV	LOCKNUT 0.625" NC (NYLON) GRBPL	4
14	00081673	BOLT, 0.625" NC x 5.00" HEX GR5 PI	4
15	88660352	RND, 0.62" OD x 0.38" ID x 0.62" LG	8
16	09706689	BOLT, 0.38" x 1.75" HEX GR5 PI	8
17	SXBH-031-100-5-YZ	BOLT, 5/16" x 1" GR5 YZ	8
18	SXFW-031-YZ	FLAT WASHER, 5/16" YZ	16
19	SXLN-031-NIYZ	LOCKNUT, 5/16" NYLON INSERT YZ	8
20	SXBH-075-900-8	BOLT, 3/4" x 9" GR8	1
21	SXLN-075-NI-YZ	LOCKNUT, 3/4" NYLON INSERT YZ	1
22	88661011	DRIVEN HUB CASTING	1
23	88661414	SETSCREW, 3/8"-16 x 0.38" LG	1
24	88661414	HYDRUALIC MOTOR (Df MANIFOLD) 101-1018	1
25	88663965	ROTATE MOTOR MOUNT PLATE	1
26	SXLW-038	LOCK WASHER, 3/8"	4
27	SXLW-038	BOLT, 3/8" x 1" YLLW ZNC	4
28	SXNTFTL038168YZ	NUT, 3/8"-16 UNC FLANGE, TP LCK, GR8-YZ	4
29	909169	MANIFOLD 16" Bs	1
30	88665346	ROTATION SPOUT WELDMENT	1
31	SX017978	RAIL MOUNT CLAMP, -06 DUAL LINE	3
32	88665354	HYDRAULIC TUBE, -06MJ x -06MJ x 142"	2
33	SXBHF0381258YZ	BOLT, 3/8" x 1.25" FLANGE GR8 YLLWZN	4
34	SXBH0381505YZ	BOLT, 3/8" x 1.50" GR5 (34 4 SXBH0381505YZ YZ)	4

BIN EXTENSIONS (1360 MODELS)

Components



ITEM	PART NUMBER	DESCRIPTION	QTY
1	86521613	BOLT, 3/8" x 1.00" HEX FLANGE GR5 (YZ 86505611)	64
2	88660170	RH FRONT BIN EXTENSION WELDMENT	1
3	88660173	RH MID BIN EXTENSION WELDMENT	1
4	88660175	RH REAR BIN EXTENSION WELDMENT	1
5	88660177	LH MID BIN EXTENSION WELDMENT	1
6	88660180	LH FRONT BIN EXTENSION WELDMENT	1
7	88660182	LH REAR BIN EXTENSION	1
8	88660184	FRONT BIN EXTENSION PLATE	1
9	88660185	REAR BIN EXTENSION PLATE	1
10	SXNTFTL038168YZ	NUT, 3/8"-16 UNC FLANGE, TP LCK,GR8-YZ	64
	88660274	CLEAR SILICON CAULK 12 OZ (Not Shown)	1

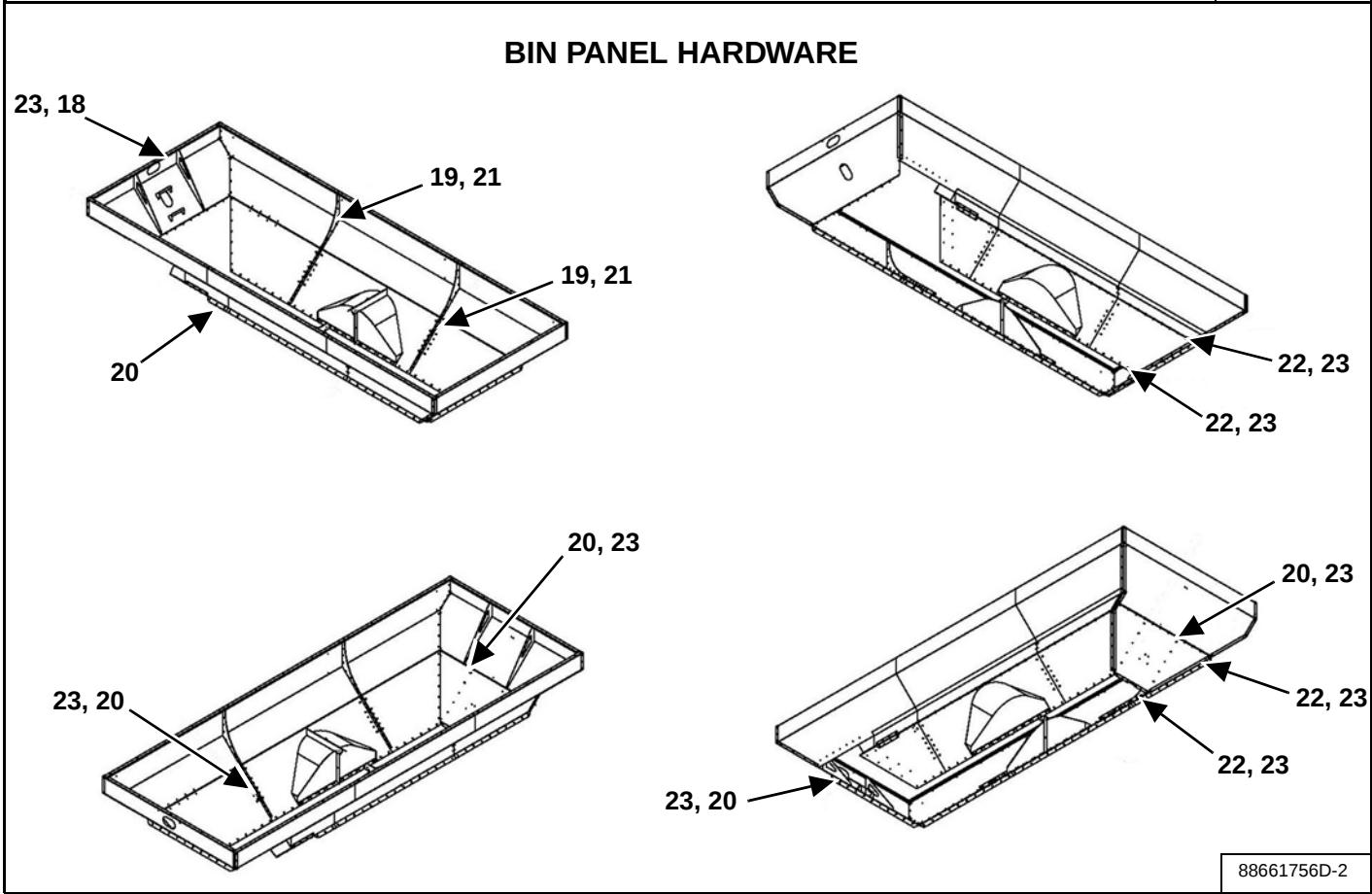
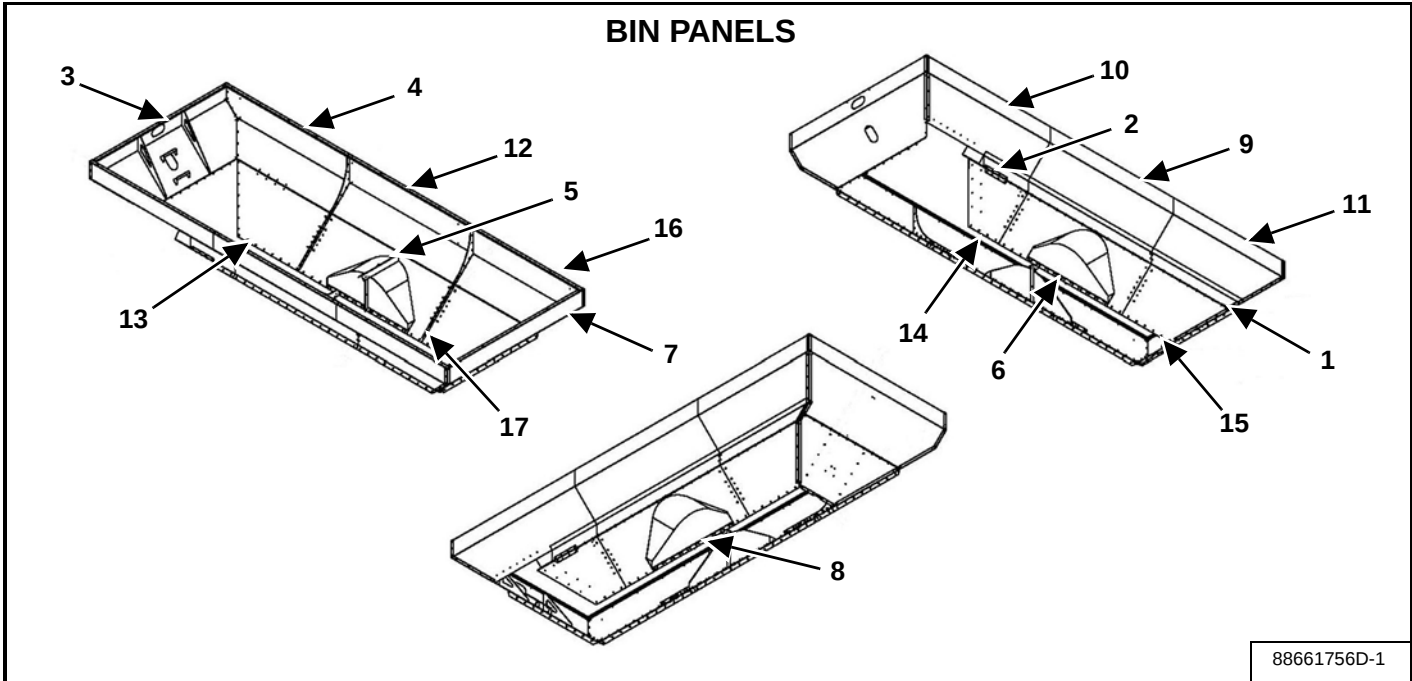
BIN SUPPORT BRACES (1060 & 1360 MODELS)
Components


88660250A

ITEM	PART NUMBER	DESCRIPTION	QTY
1	00088682	CB G5P 0.38" x 1.00" 86505609	4
2	88660236	WHEEL PLATE BIN BRACE	1
3	88660237	RH LOW PLATE BIN BRACE	2
4	88660238	LH LOW PLATE BIN BRACE	2
5	88660239	RH UP PLATE BIN BRACE	2
6	88660241	LH UP PLATE BIN BRACE	2
7	88660242	BIN CROSS BRACE WELDMENT	1
8	88660573	EXTENSION BRACE PLATE	2
9	88662129	BOLT, 3/8" x 1.00" FLANGE, GR5	12
10	SXBH-050-150-5-YZ	BOLT, 1/2" x 2 1/4" GR5 YZ	32
11	SXBHF0381255YZ	BOLT, 3/8" x 1.25" HEX FLANGE GR5 YZ	25
12	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	32
13	SXNTFTL038168YZ	NUT, 3/8"-16 UNC FLANGE TP LCK, GR8-YZ	41

MAIN BIN PANEL ASSEMBLY

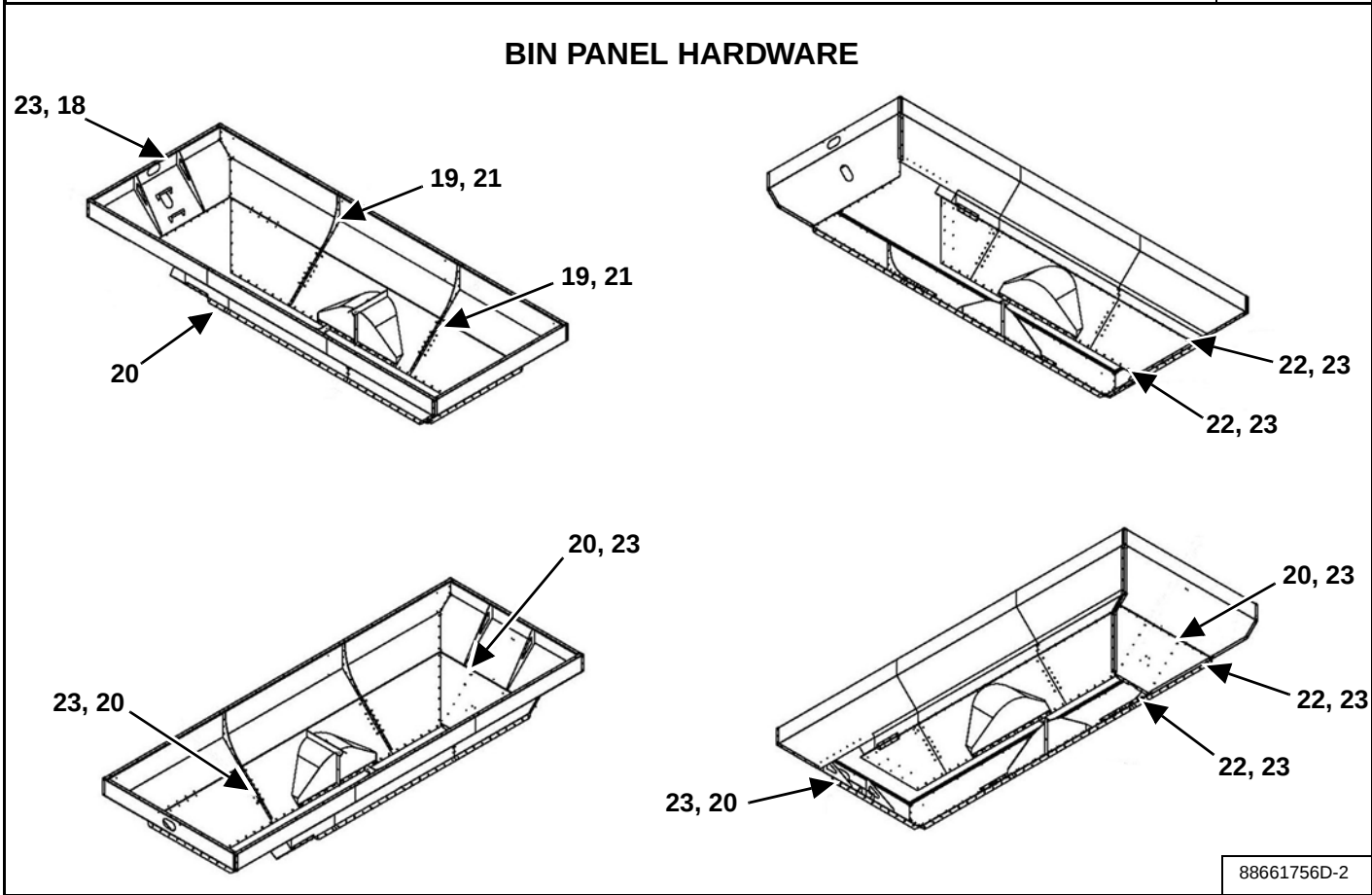
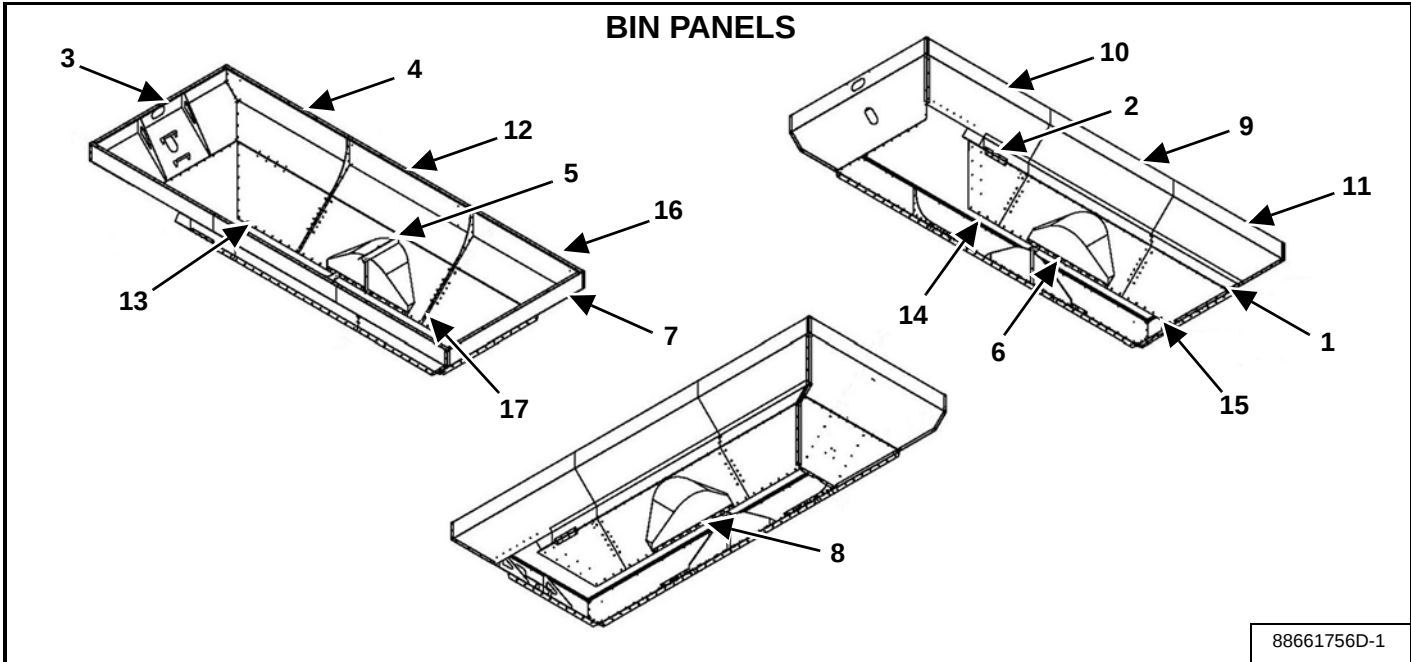
Blue Grain Cart



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665531	BIN SPLICE PLATE	1
2	88661127	BIN REINFORCEMENT PLATE, FRMD	1
3	88662197	FRONT UPPER BIN PANEL WELDMENT	1
4	88662202	RH FRONT UPPER BIN PANEL WELDMENT	1
5	88662206	RH LOWER BIN CENTER WELDMENT	1
6	88662210	LH LOWER BIN CENTER WELDMENT	1
7	88662214	UPPER REAR BIN PANEL WELDMENT	1
8	88662219	LOWER BIN REAR WELDMENT	1
9	88662223	LH MID UPPER BIN PANEL WELDMENT	1
10	88662227	LH FRONT UPPER BIN PANEL WELDMENT	1
11	88662231	LH UPPER BIN SIDE WELDMENT	1
12	88662235	RH UPPER BIN CENTER WELDMENT	1
13	88662239	RH LOWER FRONT BIN PANEL WELDMENT	1
14	88662243	LH LOWER FRONT BIN PANEL WELDMENT	1
15	88662247	LH LOWER REAR BIN PANEL WELDMENT	1
16	88662273	RH UPPER REAR BIN SIDE WELDMENT	1
17	88662277	RH LOWER REAR BIN SIDE WELDMENT	1
18	00088682	CB G5 P 0.38" x 1.00" 86505609	63
19	SXBH0501505YZ	BOLT, 1/2" x 1.50" GR5	46
20	SXBHF0381255YZ	BOLT, HEX FLANGE, 3/8" x 1.25" G5 YZ	60
21	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	46
22	88662129	BOLT, FLANGE, 3/8" x 1.00" GR5	130
23	88662125	LOCKNUT, FL NI 0.38" GR5 YZ	253
	88664499	SEALANT CAULK, BLUE (Not Shown)	1

MAIN BIN PANEL ASSEMBLY (CONT'D)

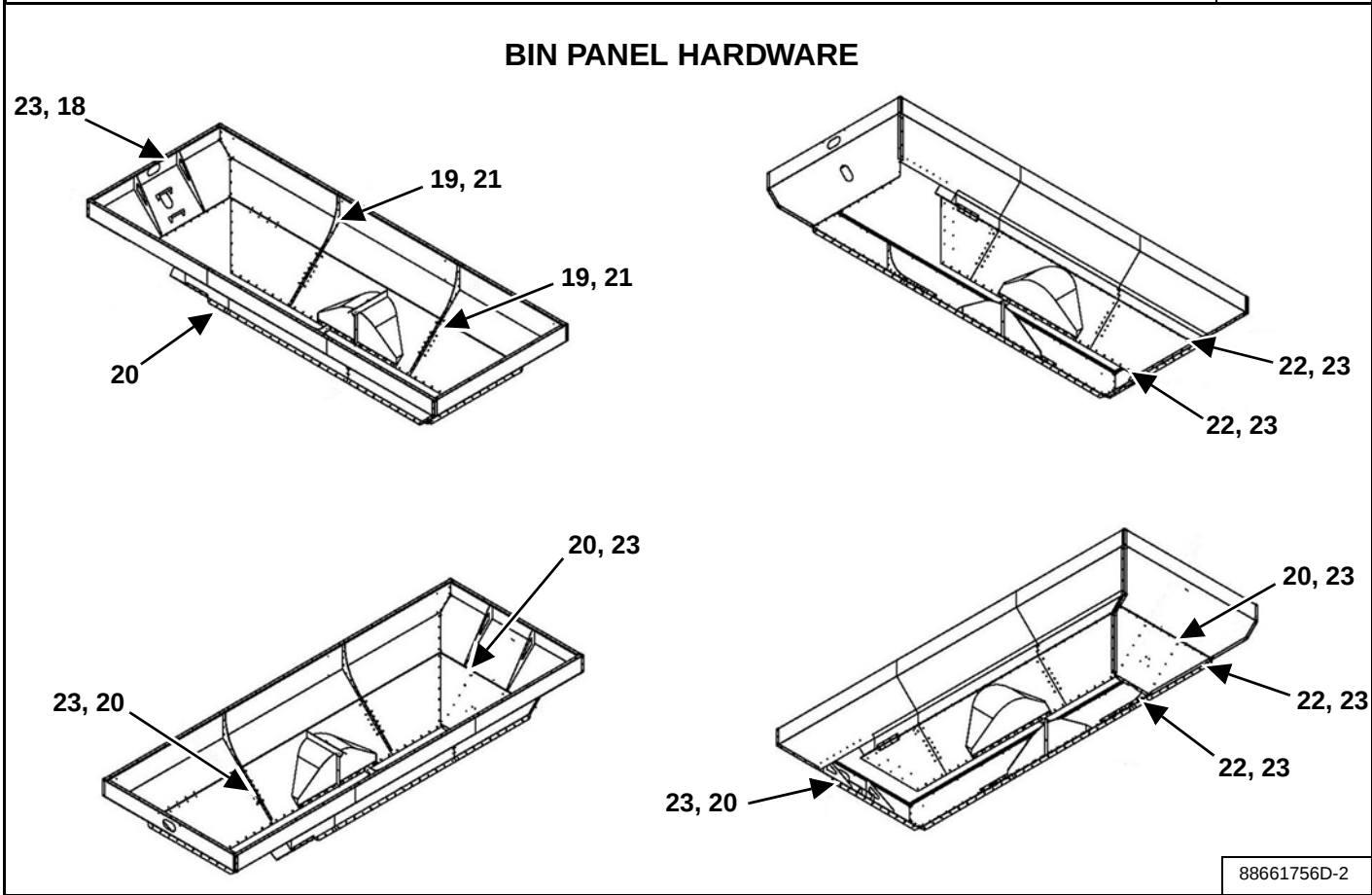
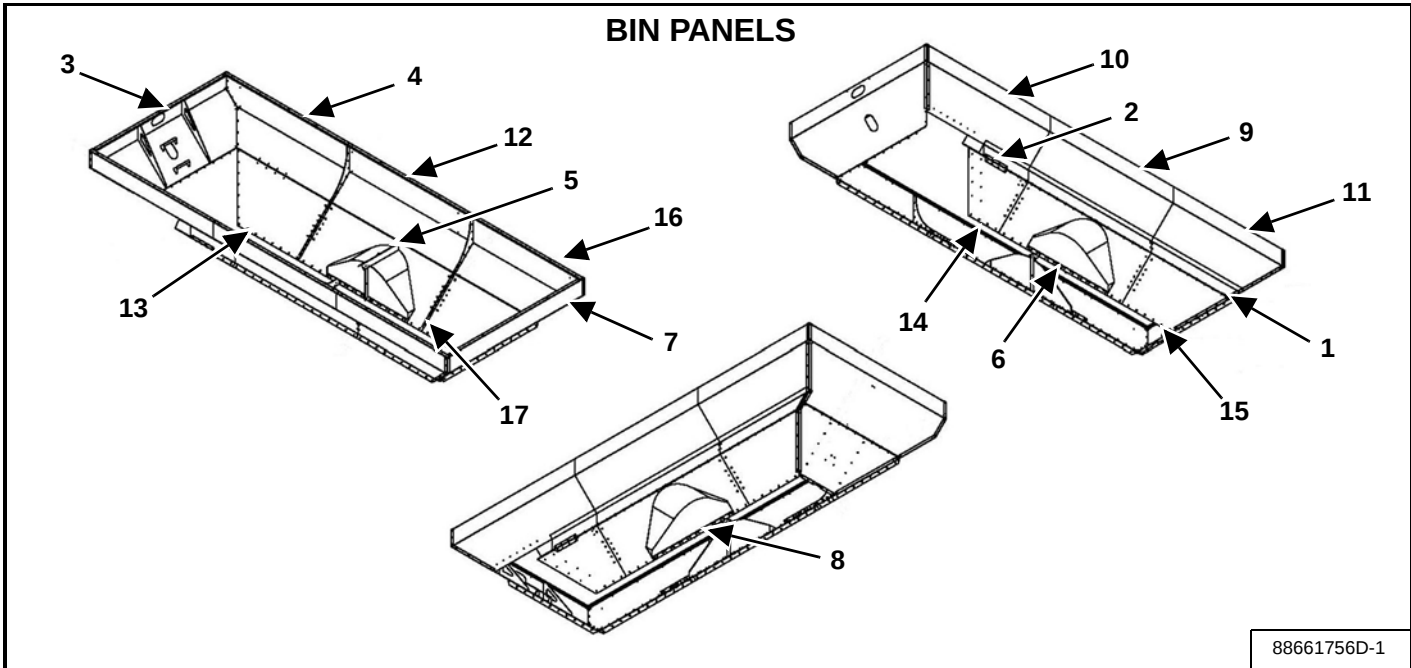
Green Grain Cart



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665529	BIN SPLICE PLATE	1
2	88661127	BIN REINFORCEMENT PLATE, FRMD	1
3	88662196	FRONT UPPER BIN PANEL WELDMENT	1
4	88662201	RH FRONT UPPER BIN PANEL WELDMENT	1
5	88662205	RH LOWER BIN CENTER WELDMENT	1
6	88662209	LH LOWER BIN CENTER WELDMENT	1
7	88662213	UPPER REAR BIN PANEL WELDMENT	1
8	88662218	LOWER BIN REAR WELDMENT	1
9	88662222	LH MID UPPER BIN PANEL WELDMENT	1
10	88662226	LH FRONT UPPER BIN PANEL WELDMENT	1
11	88662230	LH UPPER BIN SIDE WELDMENT	1
12	88662234	RH UPPER BIN CENTER WELDMENT	1
13	88662238	RH LOWER FRONT BIN PANEL WELDMENT	1
14	88662242	LH LOWER FRONT BIN PANEL WELDMENT	1
15	88662246	LH LOWER REAR BIN PANEL WELDMENT	1
16	88662272	RH UPPER REAR BIN SIDE WELDMENT	1
17	88662276	RH LOWER REAR BIN SIDE WELDMENT	1
18	00088682	CB G5 P 0.38" x 1.00" 86505609	63
19	SXBH0501505YZ	BOLT, 1/2" x 1.50" GR5	46
20	SXBHF0381255YZ	BOLT, HEX FLANGE, 3/8" x 1.25" G5R YZ	60
21	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	46
22	88662129	BOLT, FLANGE, 3/8" x 1.00" GR5	130
23	88662125	LOCKNUT, FL NI 0.38" GR5 YZ	253
	88664498	SEALANT CAULK, GREEN (Not Shown)	1

MAIN BIN PANEL ASSEMBLY (CONT'D)

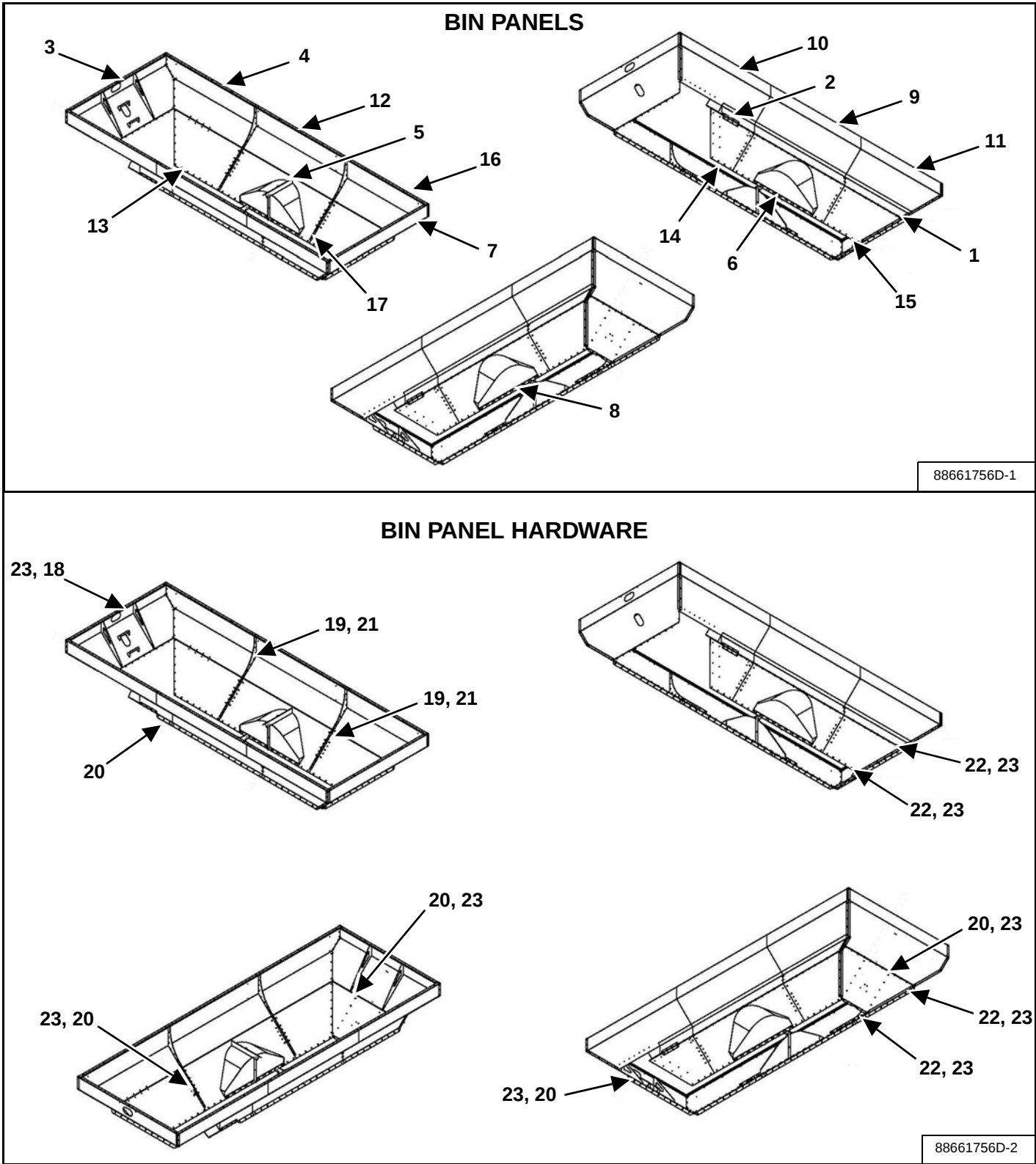
Red Grain Cart



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665528	BIN SPLICE PLATE	1
2	88661127	BIN REINFORCEMENT PLATE, FRMD	1
3	88662195	FRONT UPPER BIN PANEL WELDMENT	1
4	88662200	RH FRONT UPPER BIN PANEL WELDMENT	1
5	88662204	RH LOWER BIN CENTER WELDMENT	1
6	88662208	LH LOWER BIN CENTER WELDMENT	1
7	88662212	UPPER REAR BIN PANEL WELDMENT	1
8	88662217	LOWER BIN REAR WELDMENT	1
9	88662221	LH MID UPPER BIN PANEL WELDMENT	1
10	88662225	LH FRONT UPPER BIN PANEL WELDMENT	1
11	88662229	LH UPPER BIN SIDE WELDMENT	1
12	88662233	RH UPPER BIN CENTER WELDMENT	1
13	88662237	RH LOWER FRONT BIN PANEL WELDMENT	1
14	88662241	LH LOWER FRONT BIN PANEL WELDMENT	1
15	88662245	LH LOWER REAR BIN PANEL WELDMENT	1
16	88662271	RH UPPER REAR BIN SIDE WELDMENT	1
17	88662275	RH LOWER REAR BIN SIDE WELDMENT	1
18	00088682	CB G5 P 0.38" x 1.00" 86505609	63
19	SXBH0501505YZ	BOLT, 1/2" x 1.50" GR5	46
20	SXBHF0381255YZ	BOLT, HEX FLANGE, 3/8" x 1.25" G5 YZ	60
21	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	46
22	88662129	BOLT, FLANGE, 3/8" x 1.00" GR5	130
23	88662125	LOCKNUT, FL NI 0.38" GR5 YZ	253
	88664497	SEALANT CAULK, RED (Not Shown)	1

MAIN BIN PANEL ASSEMBLY (CONT'D)

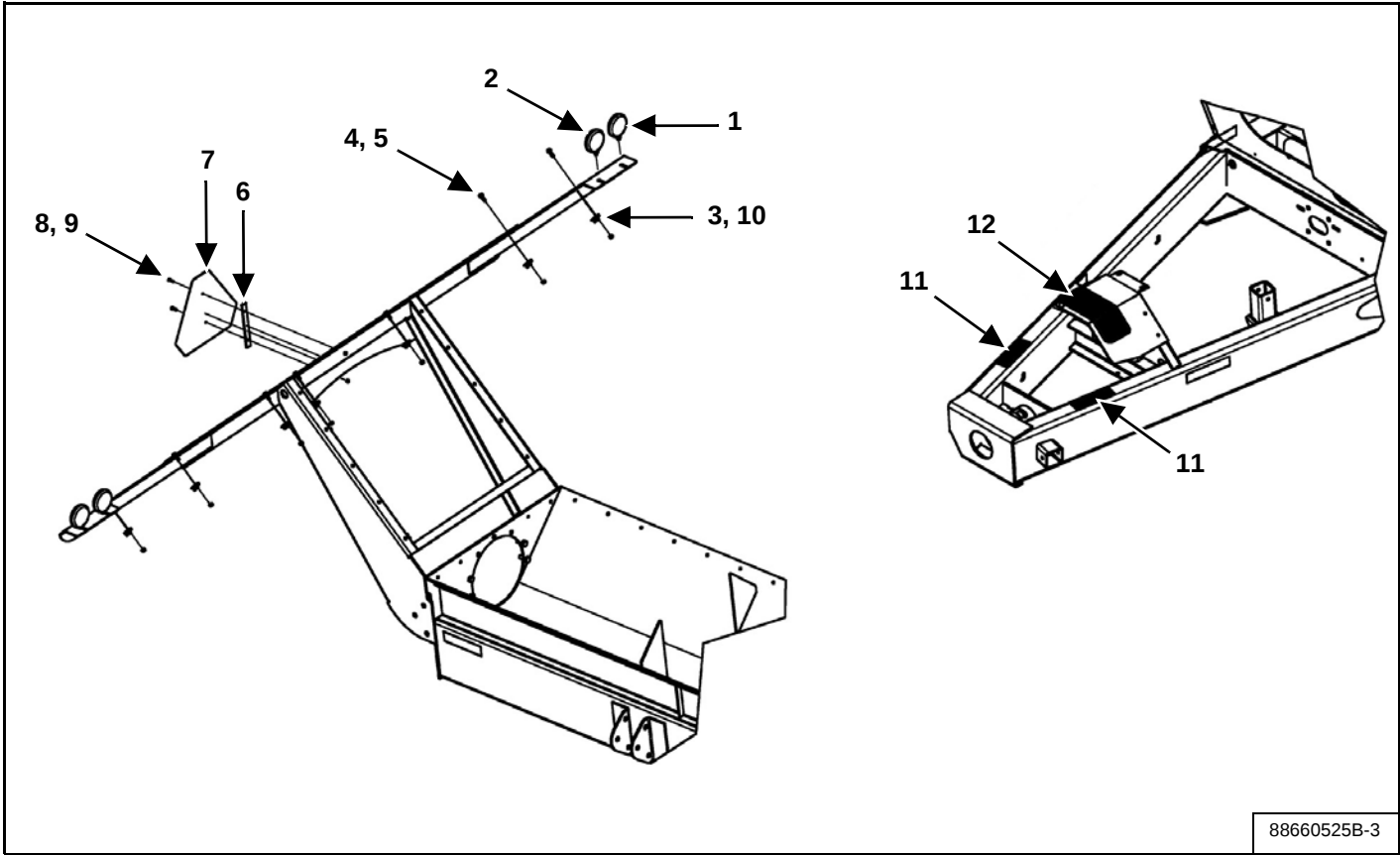
Yellow Grain Cart



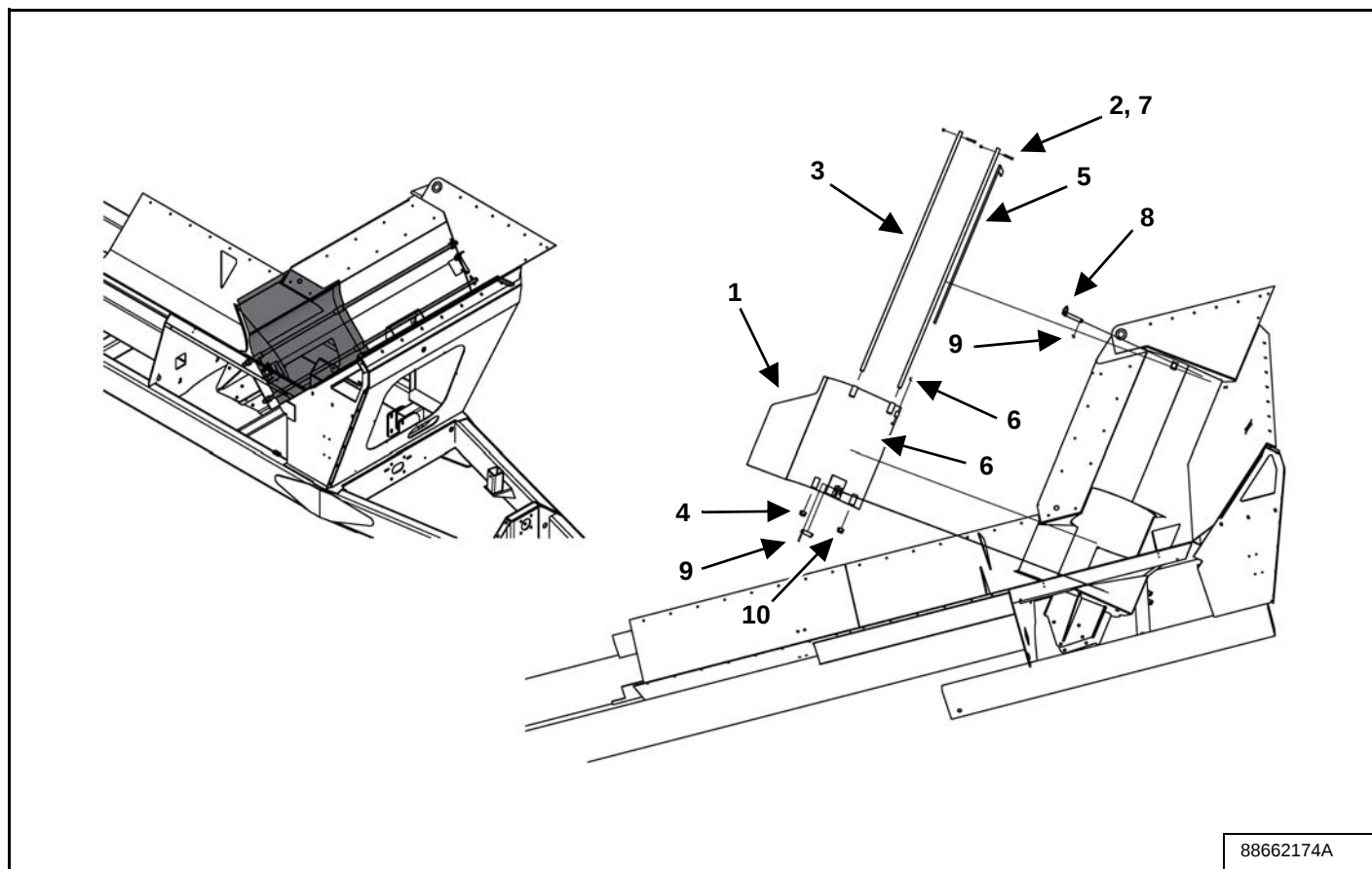
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665530	BIN SPLICE PLATE	1
2	88661127	BIN REINFORCEMENT PLATE, FRMD	1
3	88662198	FRONT UPPER BIN PANEL WELDMENT	1
4	88662203	RH FRONT UPPER BIN PANEL WELDMENT	1
5	88662207	RH LOWER BIN CENTER WELDMENT	1
6	88662211	LH LOWER BIN CENTER WELDMENT	1
7	88662215	UPPER REAR BIN PANEL WELDMENT	1
8	88662220	LOWER BIN REAR WELDMENT	1
9	88662224	LH MID UPPER BIN PANEL WELDMENT	1
10	88662228	LH FRONT UPPER BIN PANEL WELDMENT	1
11	88662232	LH UPPER BIN SIDE WELDMENT	1
12	88662236	RH UPPER BIN CENTER WELDMENT	1
13	88662240	RH LOWER FRONT BIN PANEL WELDMENT	1
14	88662244	LH LOWER FRONT BIN PANEL WELDMENT	1
15	88662248	LH LOWER REAR BIN PANEL WELDMENT	1
16	88662274	RH UPPER REAR BIN SIDE WELDMENT	1
17	88662278	RH LOWER REAR BIN SIDE WELDMENT	1
18	00088682	CB G5 P 0.38" x 1.00" 86505609	63
19	SXBH0501505YZ	BOLT, 1/2" x 1.50" GR5	46
20	SXBHF0381255YZ	BOLT, HEX FLANGE, 3/8" x 1.25" G5 YZ	60
21	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	46
22	88662129	BOLT, FLANGE, 3/8" x 1.00" GR5	130
23	88662125	LOCKNUT, FL NI 0.38" GR5 YZ	253
	88664500	SEALANT CAULK, YELLOW (Not Shown)	1

LIGHTING & MARKING

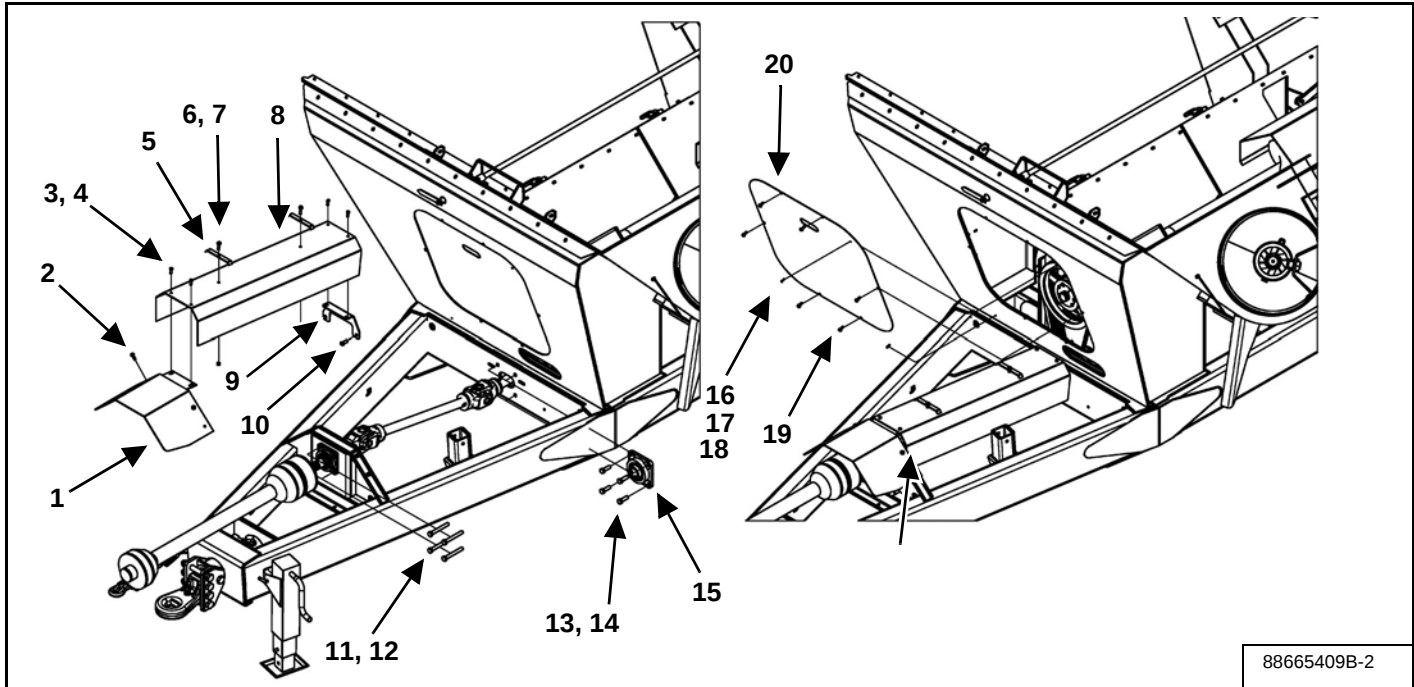
Components



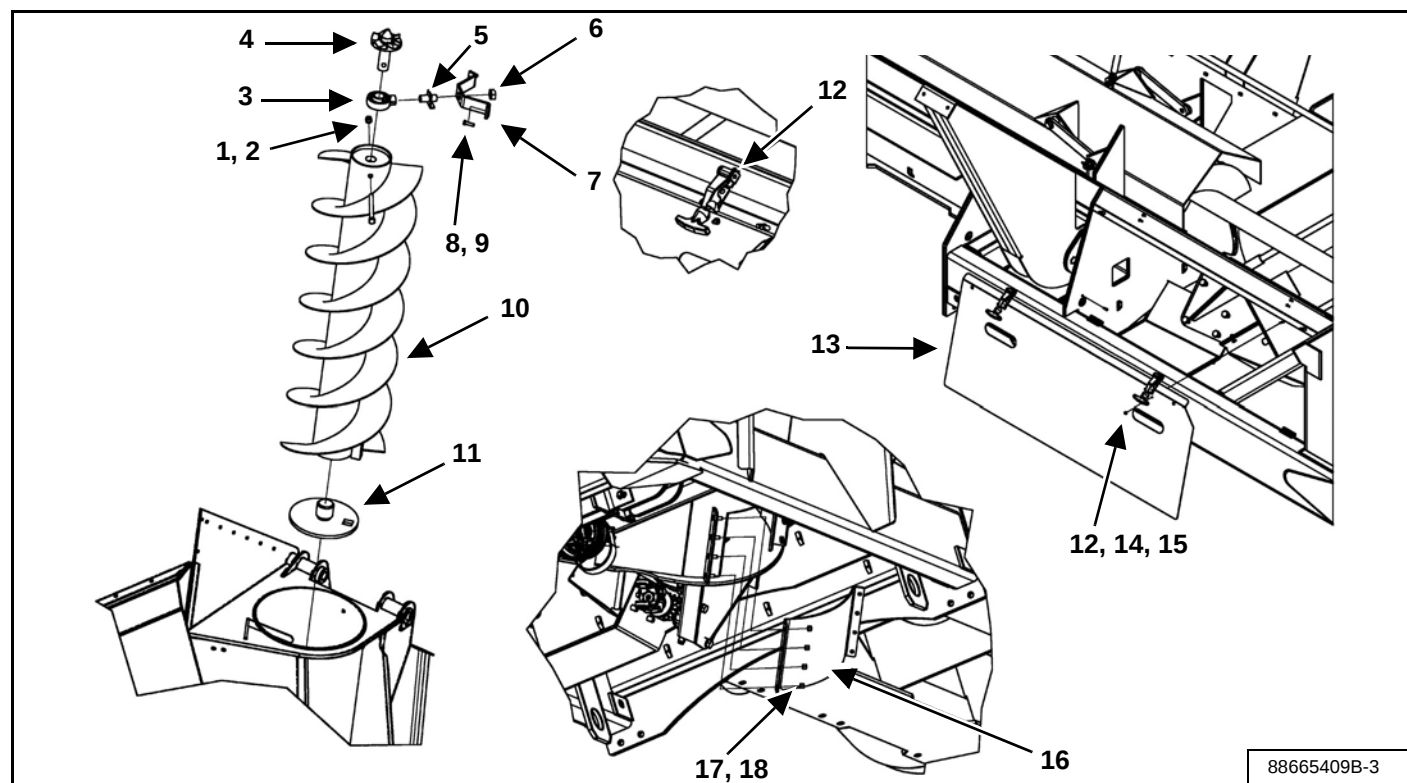
ITEM	PART NUMBER	DESCRIPTION	QTY
1	SX004561	AMBER TAIL FLASHER / WARNING LAMP	2
2	SX004560	RED TAIL / TURN LAMP	2
3	SX21294	HEAVY DUTY CABLE TIE MOUNT	9
4	SXBHF0381255YZ	BOLT, 3/8" x 1.25" HEX FLANGE GR5 YZ	7
5	SXLN-038-NIYZ	LOCKNUT, 3/8", NYLON INSERT NC YZ	7
6	88660576	SMV SIGN MOUNTING PLATE	1
7	SXJD5403	SMV SIGN	1
8	SXBH0251005YZ	BOLT, 1/4" x 1" GR5	2
9	SXLN-025-NIYZ	LOCKNUT, 1/4" NYLON INSERT	2
10	SX3NS12	STRAP, 11-1/4" BLACK 21	9
11	88663404	NON SKID STRIP, MEDIUM GRIT	2
12	SXAC027176	NON SKID STRIP, 6" x 24"	1

SLIDE GATE ASSEMBLY
Components


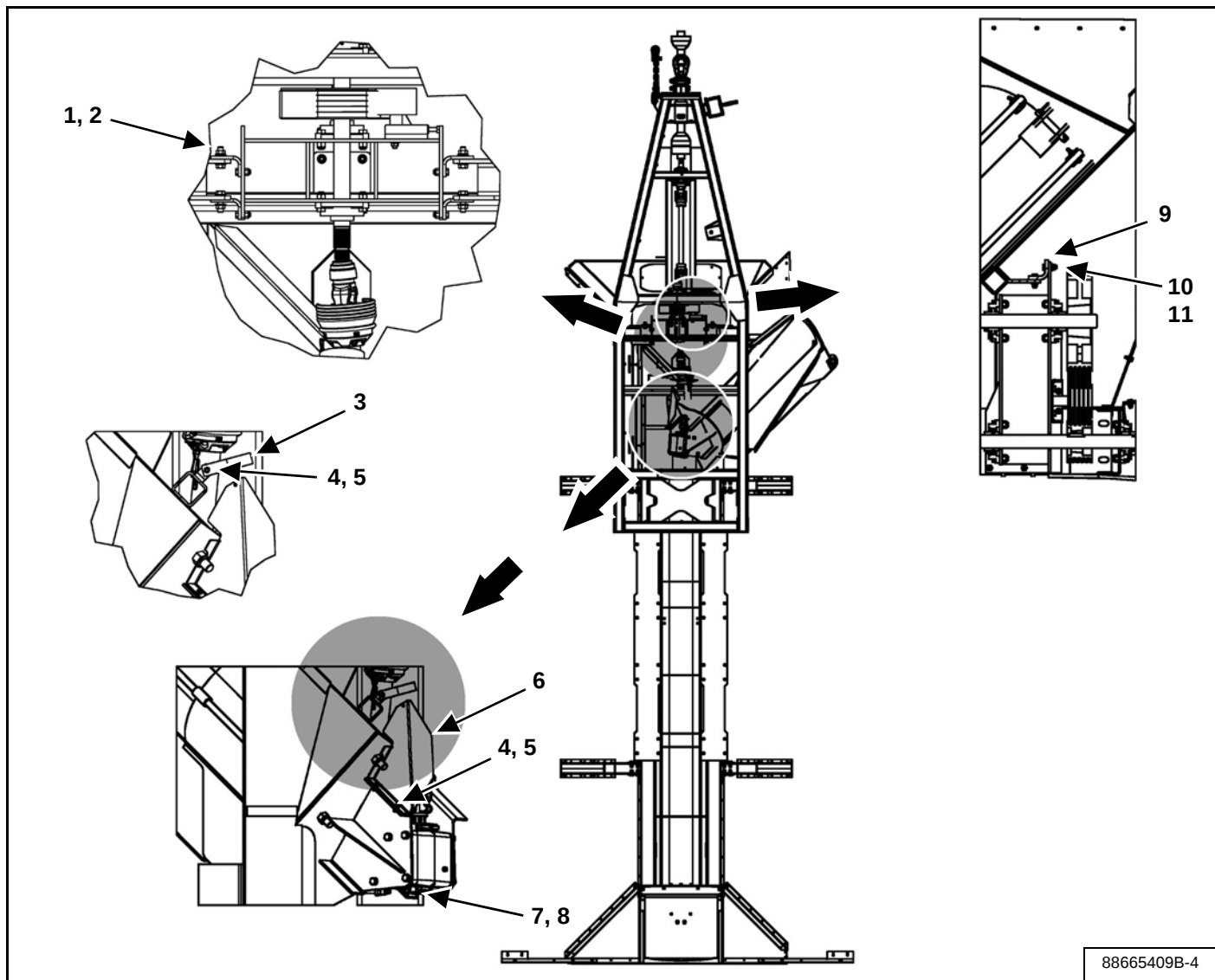
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660290	SLIDE GATE, WELDMENT	1
2	SXLN-038-NIYZ	LOCKNUT, 3/8" NYLON INSERT	2
3	88660450	ROD, SLIDE, THREADED	2
4	SXLN-100-NI-YZ	LOCKNUT, 1" NYLON INSERT	2
5	88660453	FLOW GATE INDICATOR, WELDMENT	1
6	00280431	N G5 P 0.50 86505597	2
7	00087936	BOLT, 3/8" x 2.50" GR5	2
8	SXPHI-100-525	HITCH PIN, 1" x 5-1/4"	1
9	SXPCT-018-150	COTTER PIN, 3/16" x 1-1/2"	3
10	SXPCL-100-300	CLEVIS PIN, 1" x 3"	1

LOWER FRAME ASSEMBLY
Front Components


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88660363	GUARD, PTO SHAFT	1
2	SXBHF0381258YZ	BOLT, FLANGE, 3/8" x 1.25" GR8 YZ	2
3	SXBH0381005YZ	BOLT, 3/8" x 1.00" YZ	16
4	SXNTFTL038168YZ	NUT FLANGE, TOP LOCK, 3/8-16 UNC GR8-YZ	6
5	88660575	PLATE, HOLD DOWN, HOSE	2
6	86523775	CSFL G5 P 0.38 x 1.50" 86505611	2
7	SXLN-038-NIYZ	LOCKNUT, 3/8" NYLON INSERT YZ	14
8	88660574	DRIVE SHAFT SHIELD, FRONT	1
9	88660586	BRACKET, PTO GUARD	1
10	00087670	CSHH G5 P 0.50 x 1.25" NA2024	2
11	00088729	CSHH G5 P 0.625 x 4.00" 86505344	4
12	SXLN-062-NI-YZ	LOCKNUT, 5/8" NYLON INSERT YZ	11
13	86505999	CSHH G5 P 0.62 x 2.00" 86505344	4
14	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	4
15	88660382	BEARING, 4-BOLT FLANGE, 2"	1
16	88662192	CHAIN TETHER	2
17	SXBB-10-24-075	BOLT, BUTTON 10-24 x 3/4", ALLEN HEAD	8
18	SXLN-10-24-NI	LOCKNUT, 10/24 NYLON INSERT	8
19	SXBHF0311005YZ	BOLT, FLANGE, 5/16" x 1.00" GR8 YZ	6
20	88661088	FRONT COVER PLATE, STANCHION	1

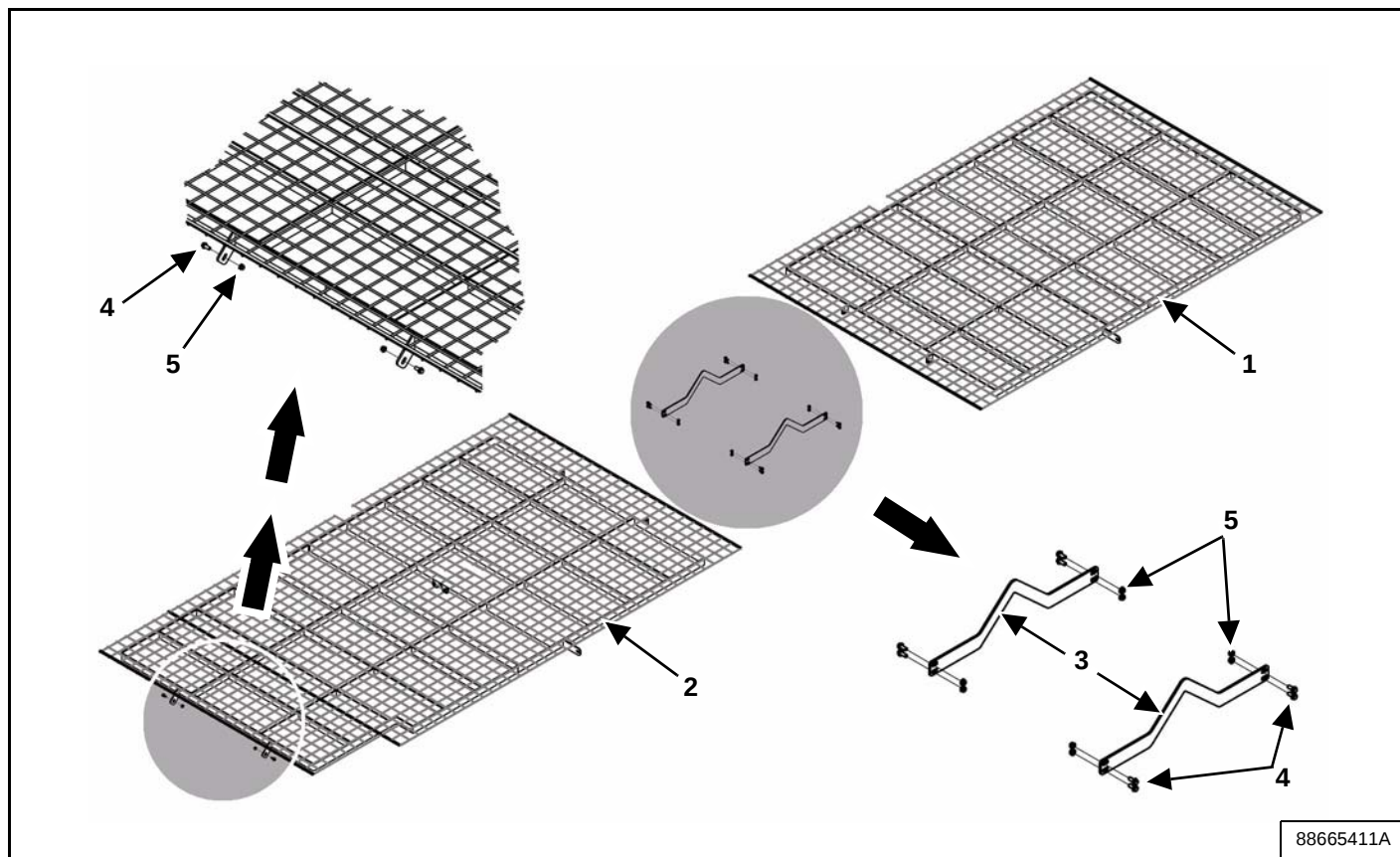
LOWER FRAME ASSEMBLY (CONT'D)


ITEM	PART NUMBER	DESCRIPTION	QTY
1	SXBH-075-900-8	BOLT, 3/4" x 9.00" GR8	1
2	88660492	LOCKNUT, 3/4" NI GR5 YZ	1
3	88660406	BEARING, HANGER 2"	1
4	88661014	HUB, AUGER DRIVE WELDMENT	1
5	88660423	MOUNT, HANGER BEARING, WELDMENT	1
6	SXNUT-125-JF	NUT, 1.25" - 12 UNF	1
7	88660424	BRACKET, HANGER BEARING	1
8	SXBH0501755YZ	BOLT, 1/2" x 1.75" GR5	6
9	SXLN-050-NI-YZ	LOCKNUT, 1/2" NYLON INSERT YZ	4
10	88660337	LOWER AUGER WELDMENT	1
11	88660198	HUB, AUGER, DRIVE WELDMENT	1
12	SXBB-10-24-075	BOLT, BUTTON 10-24 x 3/4", ALLEN HEAD	8
13	88662194	SHIELD RH DOOR ASSEMBLY	1
	SX016555	LATCH, RUBBER T-HANDLE, SIZE 2.4	2
	88662193	BRACE, FLAT	1
	88662191	SHIELD, RH DOOR	1
14	88662192	CHAIN TETHER	2
15	SXLN-10-24-NI	LOCKNUT, 10/24 NYLON INSERT	8
16	88663983	PLATE, CLEANOUT DOOR	1
17	SXBH0381005YZ	BOLT, 3/8" x 1.00" YZ	16
18	SXLN-038-NIYZ	LOCKNUT, 3/8" NYLON INSERT YZ	14

LOWER FRAME ASSEMBLY (CONT'D)
PTO Hanger Mounting Components


88665409B-4

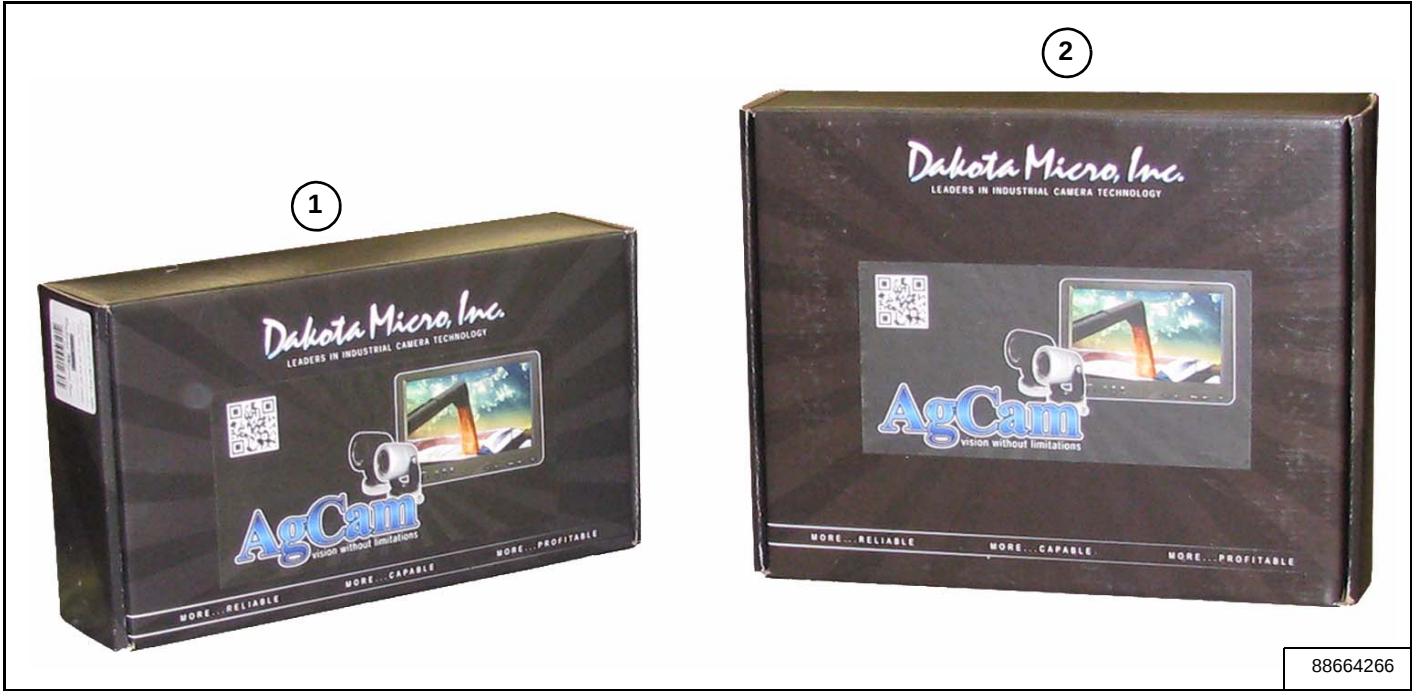
ITEM	PART NUMBER	DESCRIPTION	QTY
1	SXBHF0622008YZ	BOLT, FLANGE, 5/8" x 2.00" GR8	8
2	SXNTFTL062118Y	NUT FLANGE, 5/8" - 11 GR8	8
3	88663113	BRACKET HANGER LOWER	1
4	SXBH0381005YZ	BOLT, 3/8" x 1.00" YZ	16
5	SXLN-038-NIYZ	LOCKNUT, 3/8" NYLON INSERT YZ	14
6	88661040	SHIELD, GEARBOX U-JOINT	1
7	00088062	CSHH G5 P.62 x 1.50" 86505344	8
8	80084057	LW P 0.625 86505602	8
9	88662012	MOUNTING BRACKET, PTO HOUSING, TOP	1
10	SXBH0501755YZ	BOLT, 1/2" x 1.75" GR5	6
11	SXNTFTL050138Y	NUT FLANGE, TOP LOCK, 1/2" - 13 GR8	4

BIN FLOOR GRATING ASSEMBLY (1060 & 1360 MODELS)
Components


ITEM	PART NUMBER	DESCRIPTION	QTY
1	88665505	REAR GRATE WELDMENT	1
2	88665515	FRONT GRATE WELDMENT	1
3	88665538	FRONT TO REAR GRATE ATTACHMENT PLATE	2
4	88662129	BOLT, 3/8" x 1.00" FLANGE GR5	12
5	88662125	LOCKNUT, 0.38" FL NI GR5 YZ	12

CAMERA KIT (OPTIONAL) (1060 & 1360 MODELS)

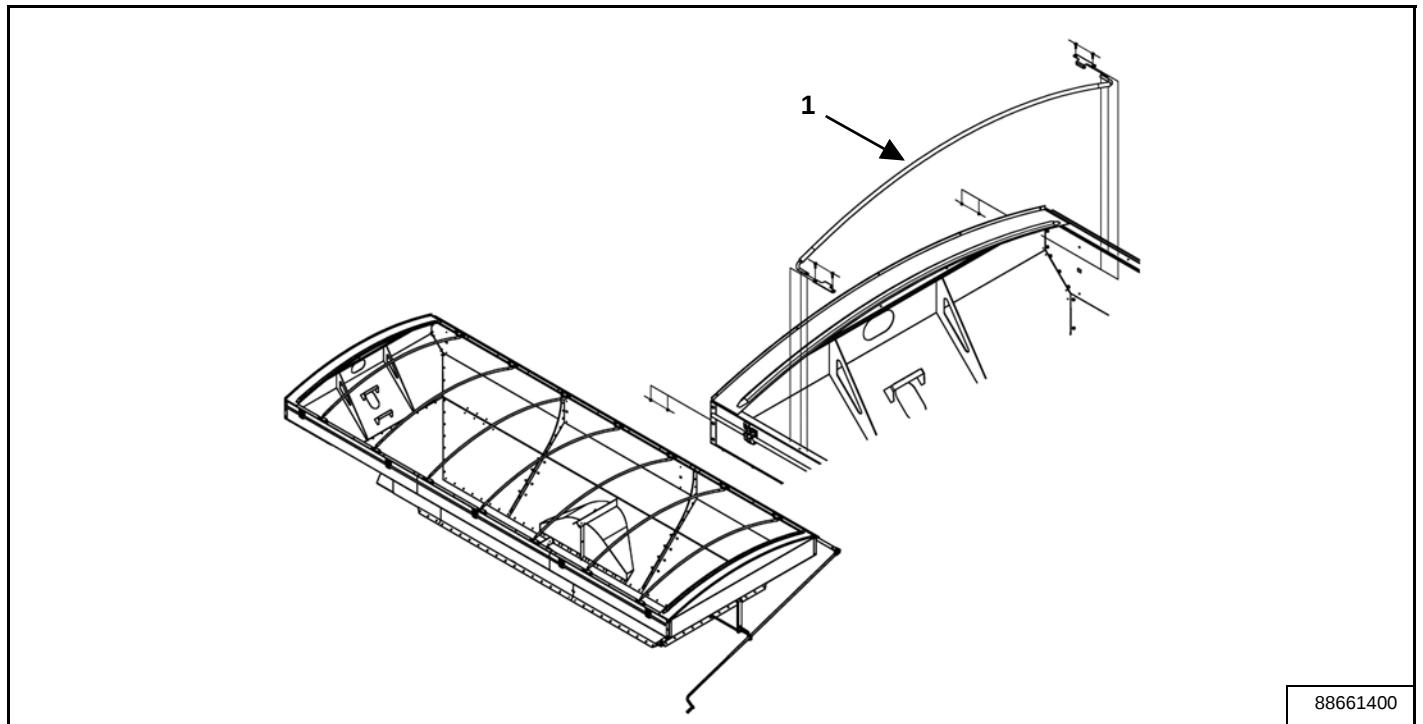
Components



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88664266	AGCAM CAMERA KIT	1
		AGCAM CAMERA	1
		CAMERA BRACKET	1
		36" CAMERA PIGTAIL	1
		SCREW, 1/4" - 20, HEX HEAD	2
		NYLON BRACKET WASHER	2
2	88664266	AGCAM MONITOR COMPONENTS	1
		AGCAM MONITOR	1
		MONITOR REMOTE CONTROL	1
		CIGARETTE LIGHTER POWER	1
		WALL POWER ADAPTOR	1
		MONITOR WIRE HARNESS	1
		MONITOR, U-BRACKET	1
		U-BRACKET WING BOLTS	2
		20' POWER VIDEO CABLE	1
		50' POWER VIDEO CABLE	1
		MONITOR SUNSHIELD	1

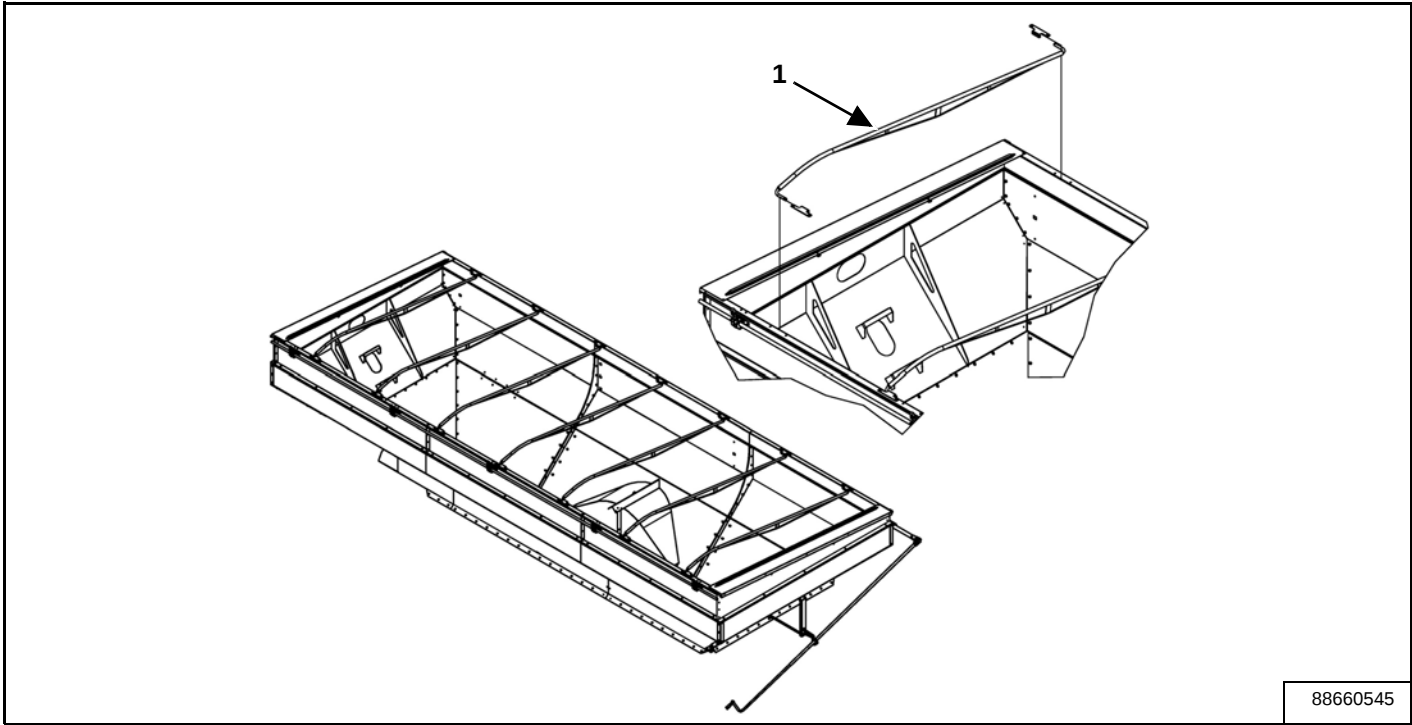
TARP ASSEMBLY (1060 & 1360 MODELS)

1060 Components



ITEM	PART NUMBER	DESCRIPTION	QTY
1	88662132	BOW WELDMENT, BHL CS 12 RS 90 DEG	7

1360 Components



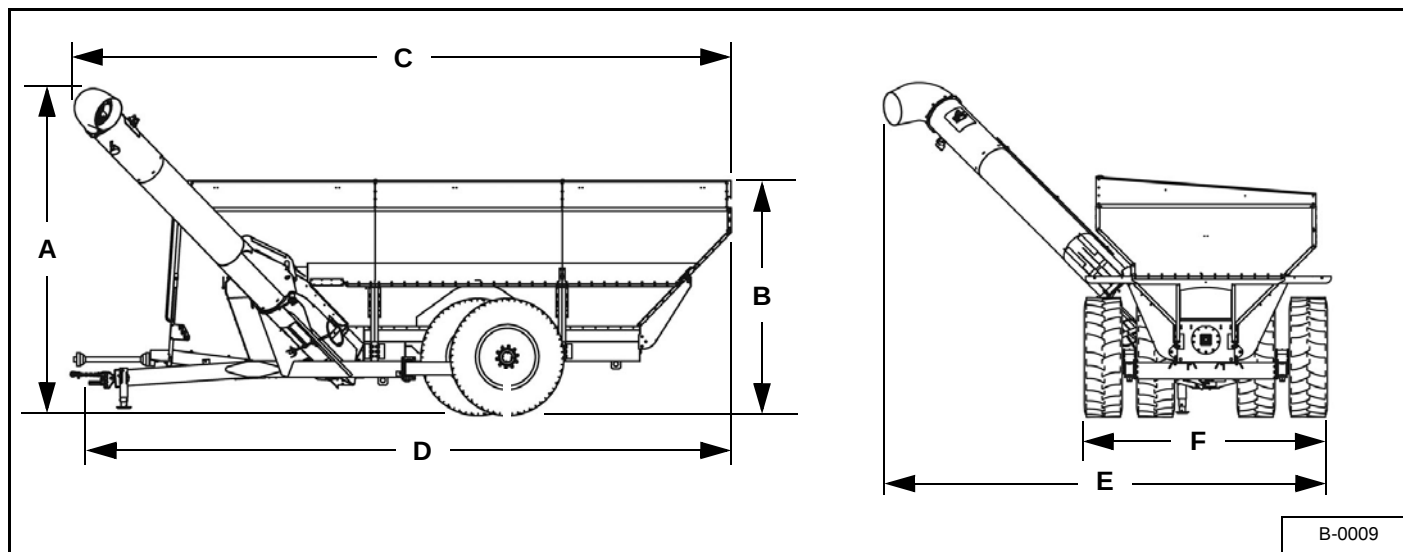
ITEM	PART NUMBER	DESCRIPTION	QTY
1	88662131	BOW WELDMENT, BHL CS 12 RS 90 DEG	7

SPECIFICATIONS

SPECIFICATIONS	101
Dimensions	101
Performance	101
HYDRAULIC DIAGRAM	102
ELECTRICAL DIAGRAM	104
ELECTRICAL SCHEMATIC	105
HARDWARE TORQUE VALUES	106
Metric Chart	106
Imperial Chart	107
HYDRAULIC CONNECTION SPECIFICATIONS	108
O-Ring Fitting (Straight Thread)	108
O-ring Face Seal Connection	108
Flare Fitting	108
Port Seal (O-ring Boss) Fitting	108
Tubelines And Hoses	108

Farm King



SPECIFICATIONS
Dimensions


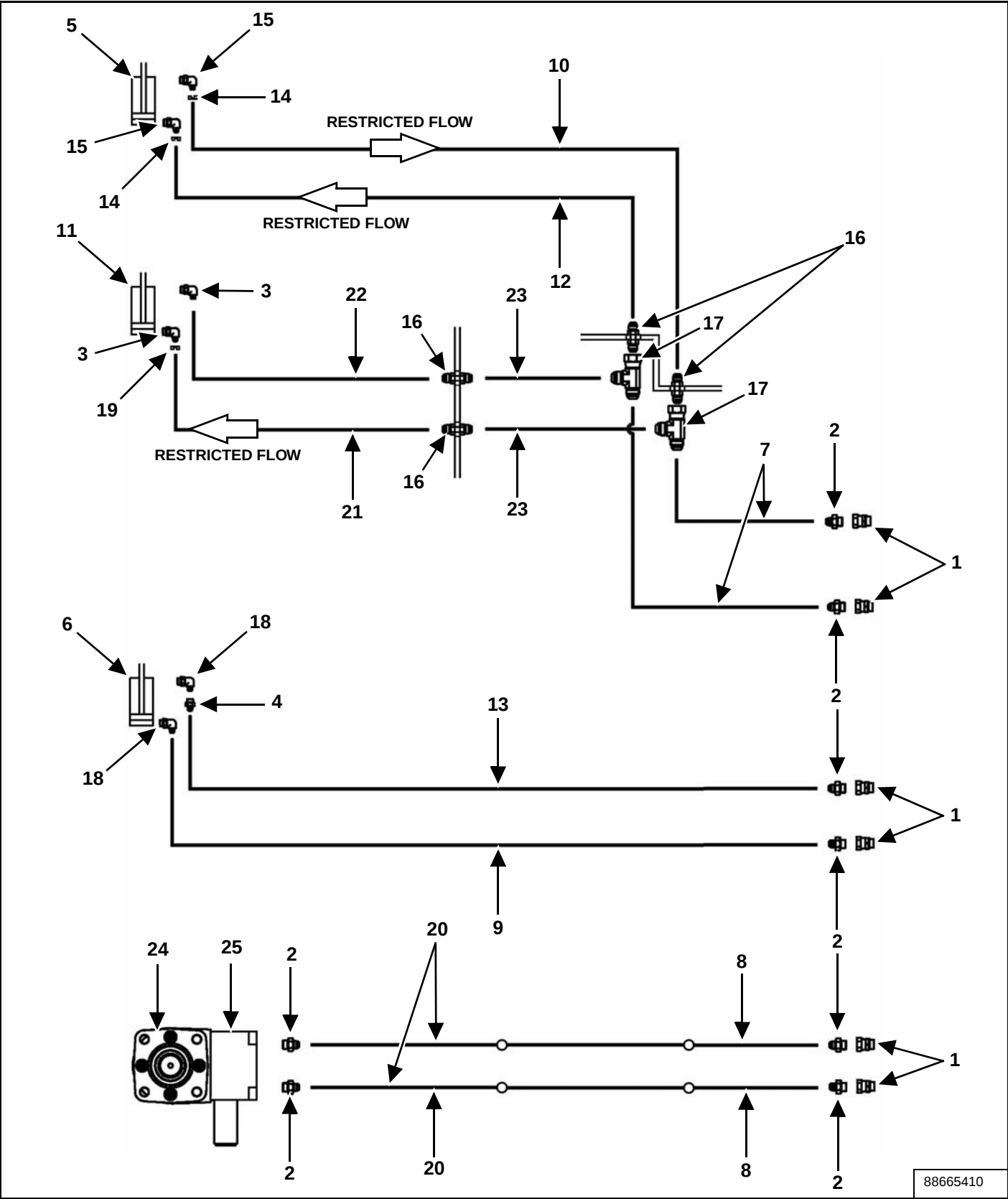
B-0009

DESCRIPTION	1060	1360
Height (Auger Up) (A)	16.8 ft (5,1 m)	16.8 ft (5,1 m)
Height (Auger Down) (B)	11.9 ft (3,6 m)	12.5 ft (3,8 m)
Length (Auger Up) (C)	34.8 ft (10,6 m)	34.8 ft (10,6 m)
Length (Auger Down) (D)	33.2 ft (10.1 m)	33.2 ft (10.1 m)
Width (Auger Up) (E)	22.3 ft (6,8 m)	22.3 ft (6,8 m)
Width (Auger Down) (F) w/o load cells	12.3 ft (3,7 m)	12.3 ft (3,7 m)

Performance

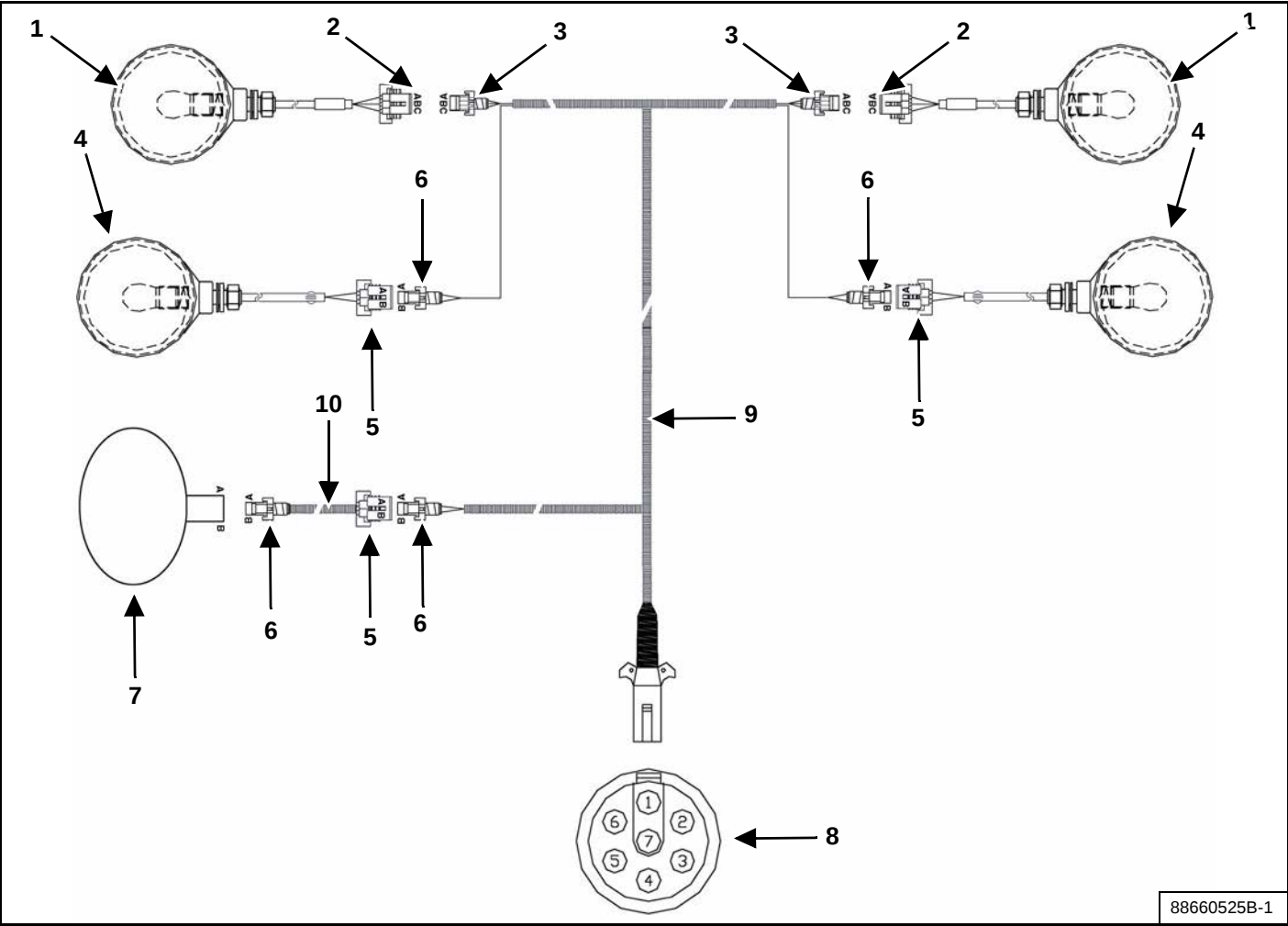
DESCRIPTION	1060	1360
Capacity (Bushels)	1060	1360
Weight (Base model w/cover)	18,520 lb (840,5 kg)	21,280 lb (9652,4 kg)
Maximum PTO Speed	1000 rpm	1000 rpm
PTO Shaft Size	1 3/4 in (44,5 mm)	1 3/4 in (44,5 mm)
Drawbar Rating (in short position)	Category IV	Category V
Unload Auger Diameter	21.5 in (546,1 mm)	21.5 in (546,1 mm)
Floor Drag Auger Diameter	13 in (330 mm)	13 in (330 mm)
Tires	900 / 60 / R32	520 / 85 / R38
Tractor HP (Minimum)	275 hp	275 hp
Electrical Harness	7 - Pin	7 - Pin
Gear Box Oil Capacity (80W-90)	95 oz. (5.9 US qt) (2.76 l)	95 oz. (5.9 US qt) (2.76 l)

HYDRAULIC DIAGRAM



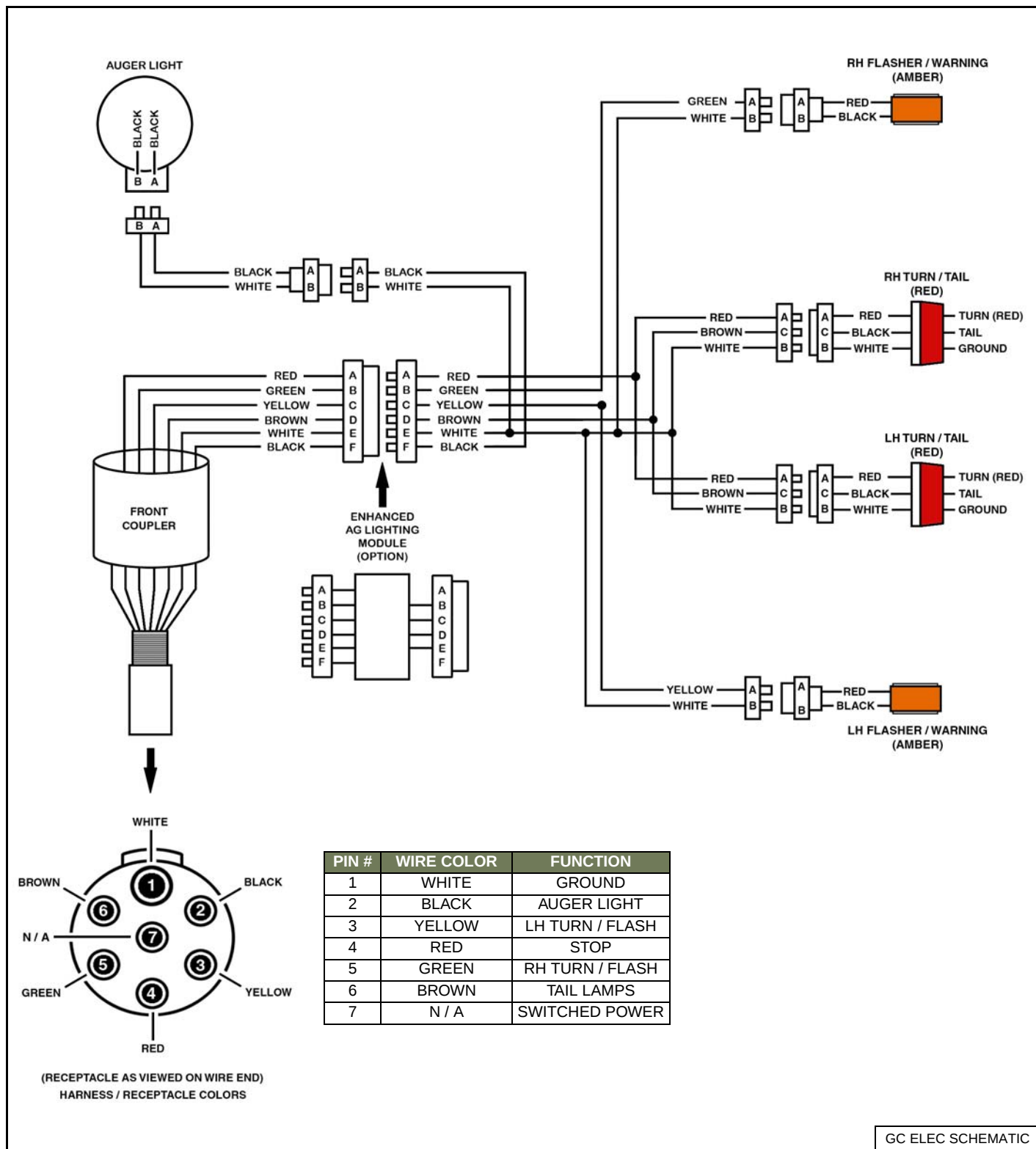
ITEM	PART NUMBER	DESCRIPTION	QTY
1	SX8010-15P	HYDRAULIC QUICK COUPLER, UNIVERSAL POPPET	6
2	SX6400-6-8	ADAPTOR, -06 MJIC x -08 MORB	8
3	SX210-016	90° ADAPTOR, -06 MJIC x -08 MORB	2
4	SX018240	ADAPTOR, 3/8" JIC x 3/4" MORB	1
5	88660194	DISCHARGE AUGER DOOR CYLINDER, 2.50" x 30.00"	1
6	88660195	FOLD CYLINDER, 4.50" x 25.75"	1
7	88660522	HOSE ASSEMBLY, 3/8" x 240" 100R17	2
8	88660523	HOSE ASSEMBLY, 3/8" x 360" 100R17	2
9	88660526	HOSE ASSEMBLY, 3/8" x 286" 100R17	1
10	88660528	HOSE ASSEMBLY, 3/8" x 40" 100R17	1
11	88660998	DRAG AUGER HOOD CYLINDER, 3.00" x 8.00" WELDED	1
12	88661760	HOSE ASSEMBLY, 3/8" x 8.5" 100R17	1
13	88661761	HOSE ASSEMBLY, 3/8" x 316" 100R17	1
14	88662094	DROP IN HYDRAULIC RESTRICTOR, -06 ORB	2
15	88662095	90° ADAPTOR, -06 MJIC x -06 MORB	2
16	88662096	BULKHEAD ADAPTOR, -06 MJIC x -0	4
17	88662097	TEE ADAPTOR, -06 FJIC x -06 MJIC x -0	2
18	88662098	90° ADAPTOR, -06 MJIC x -10 MORB	2
19	88662107	DROP IN HYDRAULIC RESTRICTOR, -10 ORB	1
20	88665539	HOSE ASSEMBLY, -6 HYDRAULIC 24.75" LG EL	2
21	88665540	HOSE ASSEMBLY, -6 HYDRAULIC 91.00" LG EL	1
22	88665541	HOSE ASSEMBLY, -6 HYDRAULIC 106.00" LG EL	1
23	88665542	HOSE ASSEMBLY, -6 HYDRAULIC 323.00" LG EL	2
24	88661414	CHUTE ROTATOR MOTOR (Df MANIFOLD) 101-1018	1
25	909169	MANIFOLD 16" BS	1

ELECTRICAL DIAGRAM



ITEM	PART NUMBER	DESCRIPTION	QTY
1	SX004560	RED TAIL / TURN LAMP	2
2	SX38204	3-PIN FEMALE METRIPAK CONNECTOR	2
3	SX38203	3-PIN MALE METRIPAK CONNECTOR	2
4	SX004561	AMBER TAIL LAMP, FLASH / WARNING	2
5	SX38201	2-PIN FEMALE METRIPAK CONNECTOR	4
6	SX38200	2-PIN MALE METRIPAK CONNECTOR	4
7	SX016809	SIDE FLOOD LIGHT	1
8	SX11 - 701	7-PIN CONNECTOR	1
9	88662413	TAIL LIGHT HARNESS	1
10	88662414	WORK LIGHT HARNESS	1

ELECTRICAL SCHEMATIC



HARDWARE TORQUE VALUES

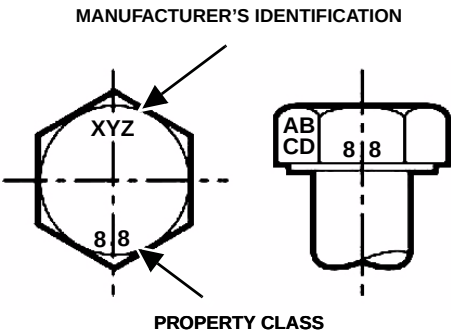
Metric Chart

NOTE: Do not use the values listed in the charts if a different torque value or tightening procedure is specified in this manual for a specific application. Torque values listed are for general use only.

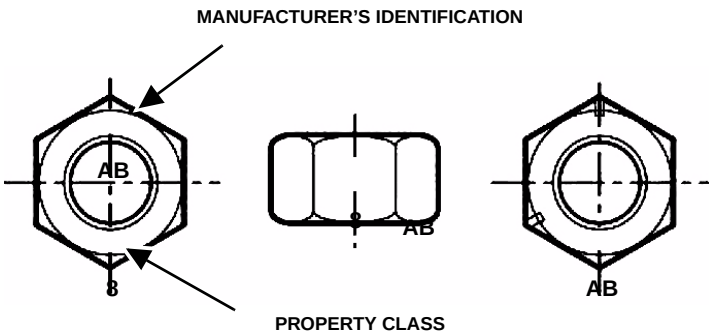
Use the following charts to determine the correct torque when checking, adjusting or replacing hardware. **Torque values are listed in newton-meters (inch* or foot pounds) for normal assembly applications.**

Nominal Size	Class 5.8		Class 8.8		Class 10.9		Lock nuts
	Unplated	Plated W / ZnCr	Unplated	Plated W / ZnCr	Unplated	Plated W / ZnCr	CL.8 w/ CL. 8.8 Bolt
M4	1.7 (15*)	2.2 (19*)	2.6 (23*)	3.4 (30*)	3.7 (33*)	4.8 (42*)	1.8 (16*)
M6	5.8 (51*)	7.6 (67*)	8.9 (79*)	12 (102*)	13 (115*)	17 (150*)	6.3 (56*)
M8	14 (124*)	18 (159*)	22 (195*)	28 (248*)	31 (274*)	40 (354*)	15 (133*)
M10	28 (21)	36 (27)	43 (32)	56 (41)	61 (45)	79 (58)	30 (22)
M12	49 (36)	63 (46)	75 (55)	97 (72)	107 (79)	138 (102)	53 (39)
M16	121 (89)	158 (117)	186 (137)	240 (177)	266 (196)	344 (254)	131 (97)
M20	237 (175)	307 (226)	375 (277)	485 (358)	519 (383)	671 (495)	265 (195)
M24	411 (303)	531 (392)	648 (478)	839 (619)	897 (662)	1160 (855)	458 (338)
NOTE: Torque values shown with * are inch pounds.							

Identification of Hex Cap Screws and Carriage Bolts - Classes 5 and up



Identification of Hex Nuts and Lock Nuts - Classes 5 and up



HARDWARE TORQUE VALUES (CONT'D)
Imperial Chart

NOTE: Do not use the values listed in the charts if a different torque value or tightening procedure is specified in this manual for a specific application. Torque values listed are for general use only.

Use the following charts to determine the correct torque when checking, adjusting or replacing hardware. **Torque values are listed in newton-meters (inch* or foot pounds) for normal assembly applications.**

Nominal Size	SAE Grade 5		SAE Grade 8		LOCK NUTS			
	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Grade W / Gr. 5 Bolt	Grade W / Gr. 8 Bolt
1/4	6.2 (55*)	8.1 (72*)	9.7 (86*)	12.6 (112*)	13.6 (121*)	17.7 (157*)	6.9 (61*)	9.8 (86*)
5/16	13 (115*)	17 (149*)	20 (178*)	26 (229*)	28 (250*)	37 (324*)	14 (125*)	20 (176*)
3/8	23 (17)	30 (22)	35 (26)	46 (34)	50 (37)	65 (48)	26 (19)	35 (26)
7/16	37 (27)	47 (35)	57 (42)	73 (54)	80 (59)	104 (77)	41 (30)	57 (42)
1/2	57 (42)	73 (54)	87 (64)	113 (83)	123 (91)	159 (117)	61 (45)	88 (64)
9/16	81 (60)	104 (77)	125 (92)	163 (120)	176 (130)	229 (169)	88 (65)	125 (92)
5/8	112 (83)	145 (107)	174 (128)	224 (165)	244 (180)	316 (233)	122 (90)	172 (127)
3/4	198 (146)	256 (189)	306 (226)	397 (293)	432 (319)	560 (413)	217 (160)	306 (226)
7/8	193 (142)	248 (183)	495 (365)	641 (473)	698 (515)	904 (667)	350 (258)	494 (364)
1	289 (213)	373 (275)	742 (547)	960 (708)	1048 (773)	1356 (1000)	523 (386)	739 (545)
NOTE: Torque values shown with * are inch pounds.								

Identification of Hex Cap Screws and Carriage Bolts

 SAE GRADE
2 BOLTS

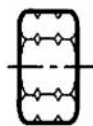
 SAE GRADE
5 BOLTS

 SAE GRADE
8 BOLTS

 SAE GRADE
2 NUTS

 SAE GRADE
2 NUTS

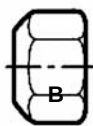
 SAE GRADE
2 NUTS

Identification of Hex Nuts and Lock Nuts


Grade A - No Notches

Grade B - One Circumferential Notch

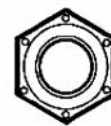
Grade C - One Circumferential Notches



Grade A - No Mark

Grade B - Letter B

Grade C - Letter C



Grade A - No Marks

Grade B - Three Marks

Grade C - Six Marks

(Marks not always located at corners)

HYDRAULIC CONNECTION SPECIFICATIONS

O-Ring Fitting (Straight Thread)

Lubricate the O-ring before installing the fitting. Loosen the jam nut and install the fitting. Tighten the jam nut until the washer is tight against the surface.

O-ring Face Seal Connection

Figure 44

O-ring Face Seal Tightening Torque		
Tubeline O.D.	Thread Size	N•m (ft-lb)
1/4"	9/16" - 18	13 (18)
3/8"	11/16" - 16	22 (30)
1/2"	13/16" - 16	40 (54)
5/8"	1" - 14	60 (81)
3/4"	1-3/16" - 12	84 (114)
7/8"	1-3/16" - 12	98 (133)
1"	1-7/16" - 12	118 (160)
1-1/4"	1-11/16" - 12	154 (209)
1-1/2"	2" - 12	163 (221)

When the fitting is tightened, you can feel when the fitting is tight to eliminate leakage caused by under or over torqued fittings. Use petroleum jelly to hold the O-ring in position until the fittings are assembled.

Flare Fitting

Figure 45

Flare Fitting Tightening Torque		
Tubeline O.D.	Thread Size	N•m (ft-lb)
1/4"	7/16" - 20	13 (18)
5/16"	1/2" - 20	17 (23)
3/8"	9/16" - 18	22 (30)
1/2"	3/4" - 16	40 (54)
5/8"	7/8" - 14	60 (81)
3/4"	1-1/16" - 12	84 (114)
7/8"	1-3/16" - 12	98 (133)
1"	1-5/16" - 12	118 (160)
1-1/4"	1-5/8" - 12	154 (209)
1-1/2"	1-7/8" - 12	163 (221)
2"	2-1/2" - 12	252 (342)

Tighten until the nut makes contact with the seat. Use the chart [Figure 45] to find the correct tightness needed.

NOTE: If the fitting leaks, disconnect and inspect the seat area for damage.

Port Seal (O-ring Boss) Fitting

Figure 46

Port Seal And O-ring Boss Tightening Torque		
Tubeline O.D.	Thread Size	N•m (ft-lb)
1/4"	7/16" - 20	13 (18)
3/8"	9/16" - 18	22 (30)
1/2"	3/4" - 16	40 (54)
5/8"	7/8" - 14	60 (81)
3/4"	1-1/16" - 12	84 (114)
7/8"	1-3/16" - 12	98 (133)
1"	1-5/16" - 12	118 (160)
1-1/8"	1-7/16" - 12	154 (209)
1-1/4"	1-5/8" - 12	163 (221)

NOTE: Port seal and nut, washer and O-ring (O-ring Boss) fittings use the same tightening torque valve chart.

If a torque wrench cannot be used, use the following method.

Tighten the nut until it just makes metal to metal contact, you can feel the resistance.

Tighten the nut with a wrench no more than one hex flat maximum.

Do not over tighten the port seal fitting.

NOTE: If a torque wrench cannot be used, use the hex flat tightening method as an approximate guideline.

NOTE: Port seal fittings are not recommended in all applications. Use O-ring boss fittings in these applications.

Tubelines And Hoses

Replace any tubelines that are bent or flattened. They will restrict flow, which will slow hydraulic action and cause heat.

Replace hoses which show signs of wear, damage or weather cracked rubber.

Always use two wrenches when loosening and tightening hose or tubeline fittings.

WARRANTY

WARRANTY111

Farm King



WARRANTY

Farm King

Limited Warranty

BASE LIMITED WARRANTY

Farm King provides this warranty only to original retail purchasers of its products. Farm King warrants to such purchasers that all Farm King manufactured parts and components used and serviced as provided for in the Operator's Manual shall be free from defects in materials and workmanship for a period following delivery to the original retail purchaser of one (1) year. This limited warranty applies only to those parts and components manufactured by Farm King. Parts and components manufactured by others are subject to their manufacturer's warranties, if any.

Farm King will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Farm King within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Parts must be returned through the selling representative and the buyer must prepay transportation charges.

Farm King will not be responsible for repairs or replacements that are necessitated, in whole or part, by the use of parts not manufactured by or obtained from Farm King. Under no circumstances are component parts warranted against normal wear and tear. There is no warranty on product pump seals, product pump bearings, rubber product hoses, pressure gauges, or other components that require replacement as part of normal maintenance.

REPAIR PARTS LIMITED WARRANTY

Farm King warrants genuine Farm King replacement parts purchased after the expiration of the Farm King Limited Warranty, and used and serviced as provided for in the Operator's Manual, to be free from defects in materials or workmanship for a period of thirty (30) days from the invoice date for the parts. Farm King will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Farm King within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Such parts must be shipped to the Farm King factory at the purchaser's expense.

WHAT IS NOT COVERED

Under no circumstances does this limited warranty cover any components or parts that have been subject to the following: negligence; alteration or modification not approved by Farm King; misuse; improper storage; lack of reasonable and proper maintenance, service, or repair; normal wear; damage from failure to follow operating instructions; accident; and/or repairs that have been made with parts other than those manufactured, supplied, and or authorized by Farm King.

AUTHORIZED DEALER AND LABOR COSTS

Repairs eligible for labor under this limited warranty must be made by Farm King or an authorized Farm King dealer. Farm King retains the exclusive discretion to determine whether it will pay labor costs for warranty repairs or replacements, and the amount of such costs that it will pay and the time in which the repairs will be made. If Farm King determines that it will pay labor costs for warranty work, it will do so by issuing a credit to the dealer's or distributor's account. Farm King will not approve or pay invoices sent for repairs that Farm King has not previously approved. Warranty service does not extend the original term of this limited warranty.

Farm King

Limited Warranty

WARRANTY REQUIREMENTS

To be covered by warranty, each new product must be registered with Farm King within thirty (30) days of delivery to original retail purchaser. If the customer decides to purchase replacement components before the warranty disposition of such components is determined, Farm King will bill the customer for such components and then credit the replacement invoice for those components later determined to be covered by this limited warranty. Any such replacement components that are determined not to be covered by this limited warranty will be subject to the terms of the invoice and shall be paid for by the purchaser.

EXCLUSIVE EFFECT OF WARRANTY AND LIMITATION OF LIABILITY

TO THE EXTENT PERMITTED BY LAW, FARM KING DISCLAIMS ANY WARRANTIES, REPRESENTATIONS, OR PROMISES, EXPRESS OR IMPLIED, AS TO THE QUALITY, PERFORMANCE, OR FREEDOM FROM DEFECT OF THE COMPONENTS AND PARTS COVERED BY THIS WARRANTY AND NOT SPECIFICALLY PROVIDED FOR HEREIN.

TO THE EXTENT PERMITTED BY LAW, FARM KING DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ON ITS PRODUCTS COVERED HEREIN, AND DISCLAIMS ANY RELIANCE BY THE PURCHASER ON FARM KING'S SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS FOR ANY PARTICULAR PURPOSE. THE PURCHASER'S ONLY AND EXCLUSIVE REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON FARM KING'S Product S ARE THOSE SET FORTH HEREIN. IN NO EVENT SHALL FARM KING BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BY WAY OF EXAMPLE ONLY AND NOT LIMITATION, LOSS OF CROPS, LOSS OF PROFITS OR REVENUE, OTHER COMMERCIAL LOSSES, INCONVENIENCE, OR COST OF REPLACEMENT OF RENTAL EQUIPMENT). IN NO EVENT SHALL FARM KING'S CONTRACT OR WARRANTY LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT. (Note that some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusion may not apply to you.) This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Farm King neither assumes nor authorizes any person or entity, including its selling representatives, to assume any other obligations or liability in connections with the sale of covered equipment, or to make any other warranties, representations, or promises, express or implied, as to the quality, performance, or freedom from defect of the components and parts covered herein. No one is authorized to alter, modify, or enlarge this limited warranty, or its exclusions, limitations and reservations.

Corrections of defects and improper workmanship in the manner, and for the applicable time periods, provided for herein shall constitute fulfillment of all responsibilities of Farm King to the purchaser, and Farm King shall not be liable in negligence, contract, or on any other basis with respect to the subject equipment.

This limited warranty is subject to any existing conditions of supply which may directly affect Farm King's ability to obtain materials or manufacturer replacement parts.

Buhler Industries Inc. reserves the right to make improvements in design or changes in specifications to its products at anytime, without incurring any obligation to owners of units previously sold.

ALPHABETICAL INDEX

AXLE & HITCH OPTIONS (1060 & 1360 MODELS)	58	SINGLE AXLE	49
BIN EXTENSIONS (1360 MODELS)	80	SLIDE GATE ASSEMBLY	91
BIN FLOOR GRATING ASSEMBLY (1060 & 1360 MODELS)	95	SPECIFICATIONS	101
BIN SUPPORT BRACES (1060 & 1360 MODELS)	81	STORAGE AND RETURN TO SERVICE ...	49
CAMERA KIT (OPTIONAL) (1060 & 1360 MODELS)	96	TANDEM AXLE	48
DRAG AUGER ASSEMBLY	70	TARP ASSEMBLY (1060 & 1360 MODELS) .	97
DRAG AUGER BELT DRIVE	46	TRANSPORTING	36
DRAG AUGER GATE ASSEMBLY (1060 & 1360 MODELS)	72	TROUBLESHOOTING	39
DRIVE GROUP (1060 & 1360 MODELS) ..	53	UPPER AUGER ASSEMBLY (1060 & 1360 MODELS)	78
ELECTRICAL DIAGRAM	104	UPPER FRAME ASSEMBLY (1060 & 1360 MODELS)	76
ELECTRICAL SCHEMATIC	105	WARRANTY REGISTRATION FORM	3
EQUIPMENT DECALS AND SIGNS	19	WARRANTY	111
EQUIPMENT IDENTIFICATION	8		
FIRE PREVENTION	14		
GENERAL INFORMATION	25		
GENERAL INFORMATION	53		
GRAIN CART OPERATION	31		
HARDWARE TORQUE VALUES	106		
HITCH AND JACK ASSEMBLY	75		
HYDRAULIC CONNECTION SPECIFICATIONS	108		
HYDRAULIC DIAGRAM	102		
INITIAL SET-UP	28		
LADDER GROUP (1060 & 1360 MODELS) .	77		
LIGHTING & MARKING	90		
LOWER FRAME ASSEMBLY	92		
LUBRICATION	42		
MAIN BIN PANEL ASSEMBLY	82		
OWNER'S INFORMATION	7		
PTO DRIVELINE	47		
SAFETY INSTRUCTIONS	11		
SAFETY SIGN (DECAL) INSTALLATION ..	49		
SAFETY SIGN-OFF FORM	21		
SAFETY SIGNS (DECALS)	16		
SERVICE SCHEDULE	41		

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