

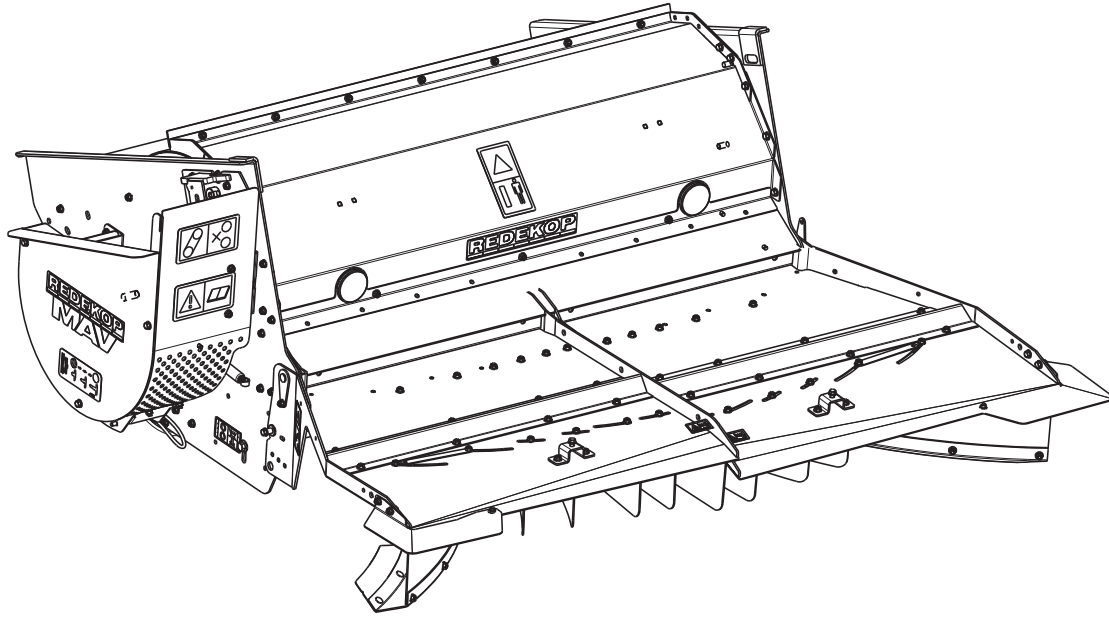
REDEKOP™

MAV HOUSING UPGRADE JOHN DEERE S-SERIES

INSTALLATION MANUAL

PRODUCT NUMBER: 340-105WC

CD0303-01_R8



Housing Upgrade MAV JD S-Series

Installation Manual

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0 Safety

0.1 Introduction

0.1.1 IMPORTANT: Read through this instruction thoroughly and familiarize yourself with the machine before removing these components. Do not skip steps or perform them out of order.

This instruction manual explains the proper procedure for preparing the combine and removing the Factory Spreader Components in order to install the Redekop MAV Chopper



0.2 Recognize Safety Information

0.2.1 This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



0.3 Understand Signal Words

0.3.1 A signal word - DANGER, WARNING, or CAUTION - is used with the safety-alert symbol. DANGER identifies the most serious hazards.

WARNING or CAUTION safety signs are located near specific hazards or precautionary areas in this manual.



0.4 Follow Safety Instructions

0.4.1 Carefully read all safety messages in this manual and on your machine. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.

Other languages are available for this machine. Please contact Redekop



0.5 Safe Operating Practices

0.5.1 DO NOT stand near the straw chopper when combine is running.

ALWAYS refer to your Combine Operator's Manual, and review the Safety section before operating machine. The Combine Operator's Manual details safe operating practices that must be followed to protect you and others from accidental injury and/or death.

Operate Straw Chopper only when all guards are correctly installed.

Before moving away, always check immediate vicinity of Straw Chopper (e.g. for children). Ensure adequate visibility. Use a horn as a warning immediately before moving away.

When making turns, always take into consideration the width of the attachment and the fact that the rear end of the machine swings out. Attachments and ground conditions affect the driving characteristics.

Never leave combine unattended as long as engine is running.



0.6 Work In Ventilated Area

0.6.1 Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

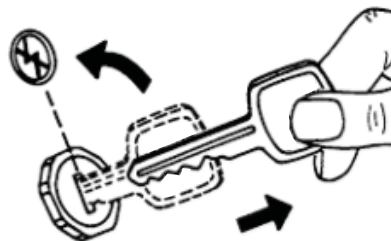


0.7 Remove Key from Ignition

0.7.1 ALWAYS shut off combine engine prior to working on it.

Apply park brake, remove key and lock operators cab.

If the combine is equipped with an additional safety master power switch, turn this to the Power OFF position.



0.8 Block Wheels

0.8.1 Park the combine on level ground.

Always engage the park brake and block the combine wheels prior to working to prevent the combine from moving.



0.9 Practice Safe Maintenance

0.9.1 Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust Straw Chopper while it is moving. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Keep hands, feet and clothing away from power-driven parts. Tie long hair behind your head. Do not wear rings, jewelry, a necklace, a necktie, scarf, or loose clothing when you work near machine or moving parts. If these items were to get caught, severe injury could result.

Securely support any Straw Chopper elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on Straw Chopper.



0.10 Guards and Shields

0.10.1 Keep guards and shields in place at all times. Ensure that they are serviceable and maintained correctly.



0.11 Avoid Contact With Moving Parts

0.11.1 Keep hands, feet and clothing away from power driven parts. Never clean, lubricate or adjust machine when it is running.

Never attempt to clear obstructions from machine unless it is disengaged, engine shut off and key removed.



0.12 Avoid High-Pressure Fluids

0.12.1 Inspect hydraulic hoses periodically - at least once per year - for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire brand or any other signs of wear or damage.

Replace worn or damaged hose assemblies immediately.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.



0.13 Dispose of Waste Properly

0.13.1 Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste includes such items as oil, fuel, coolant, brake fluid, filters and batteries.

Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.



0.14 Use Proper Lifting Equipment

0.14.1 Lifting heavy components incorrectly can cause severe injury or Straw Chopper damage.

Follow recommended procedure for removal and installation of components in the manual.

Ensure lifting equipment is rated for the job

Ensure operator is appropriately licensed to operate lifting equipment



0.15 Personal Protective Equipment (PPE)

0.15.1 A Qualified Person designated by the employer, who is knowledgeable about and familiar with all relevant specifications and assembly instructions and is capable of identifying existing or potential hazards in surroundings or working conditions which may be hazardous or dangerous to employees shall determine appropriate Personal Protective Equipment required for this assembly.

Personal Protective Equipment (PPE) are devices worn by the employees to protect against hazards in the environment. Examples include safety glasses, face shields, respirators, gloves, hard hats, steel-toe shoes, and hearing protection. Wear close fitting clothing and safety equipment appropriate for the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



0.16 Sound Level

0.16.1 This product produces sound pressure levels in excess of 90 dB within 10m of discharge area.



Hearing protection is required!

Interference with speech communication, acoustic signals is possible.

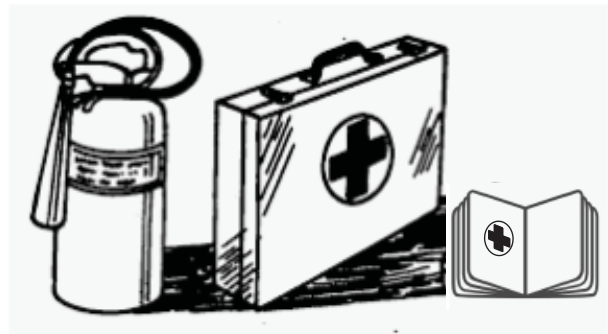


0.17 Prepare for Emergencies

0.17.1 Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.



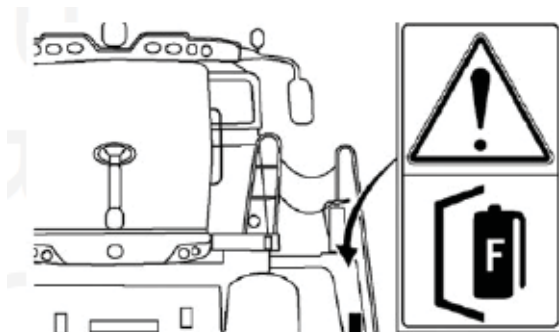
0.18 Fire Extinguisher

0.18.1 A 6 kg (15 lb) general-purpose fire extinguisher meeting national certification requirements must be installed on left side of operator's platform.

Maintain fire extinguisher to keep it in operating condition.

Make sure that the fire extinguisher is always ready for use. Refer to the fire extinguisher's manual for instructions on how to operate it. Once extinguisher is operated - no matter how long - it must be recharged.

Keep the engine clean and free of dust, chaff and straw to prevent the possibility of fire.



0.19 Remove Accumulated Crop Debris

0.19.1 The build up of chaff and crop debris in the engine compartment, on the engine, near bearings and moving parts is a fire hazard. Check and clean these areas frequently.



0.20 In the Event of Fire

0.20.1 Stop work immediately at first sign of fire. This may be the smell of smoke or the sight of smoke or flames. Get off the machine immediately and move away from the fire.

DO NOT RETURN TO THE MACHINE OR FIRE!



CAUTION: AVOID PERSONAL INJURY!

If a fire is too far advanced, do not try to extinguish it. Call the fire department! DO NOT RETURN TO THE FIRE! The number one priority is safety. Always put the safety of the operator and bystanders first.

If a fire can be safely extinguished, proceed carefully and follow these guidelines:

1. Remove fire extinguisher from bracket and carry it to the area of fire.
2. Approach area of fire with your back to the wind.
3. Release the locking mechanism on fire extinguisher to allow discharge.
4. Hold extinguisher upright, pointing nozzle away from you and aim hose at base of the flames.
5. Squeeze the lever slowly and evenly to discharge fire extinguisher.
6. Move extinguisher nozzle side to side to cover the source of the fire evenly with extinguishing agent.



Torque Table		
Nominal Size	Class 8.8	Class 10.9
	Nm / (ft-lbs)	Nm / (ft-lbs)
M8 - flanged	27 / (20)	39 / (29)
- non flanged	25 / (18)	35 / (26)
M10 - flanged	54 / (40)	57 / (42)
- non flanged	49 / (36)	70 / (51)
M12 - flanged	93 / (69)	134 / (98)
- non flanged	85 / (63)	121 / (90)
M16 - flanged	231 / (171)	331 / (244)
- non flanged	210 / (155)	301 / (222)



0.21 Safety Decals

Pictorial Safety Signs

At several important places on this machine, safety signs are affixed intending to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information on how to avoid personal injury. These safety signs, their placement on the machine, and a brief explanatory text follow.

Hand Injury / Rotate Danger RP871



Projectile Hazard / Stand Clear RP872

Stay clear of these components when the engine is running. Kickback hazard when removing access panel.



Caution / Check Service Manual RP873

This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.



Keep Hands out of Belt Area / Rotate Danger RP874

Do not touch any moving parts.
Wait until all moving parts have stopped.



High Pressure Fluid Hazard / Check Service Manual
RP876

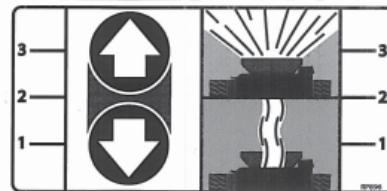


Pinch Point Hazard
84394351



0.22 Information Decals

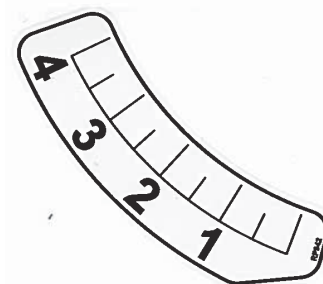
Windrow Floor Adjustment
Wide Spread / No Spread
RP896



Redekop Straw Chopper Serial Number Plate
RP246



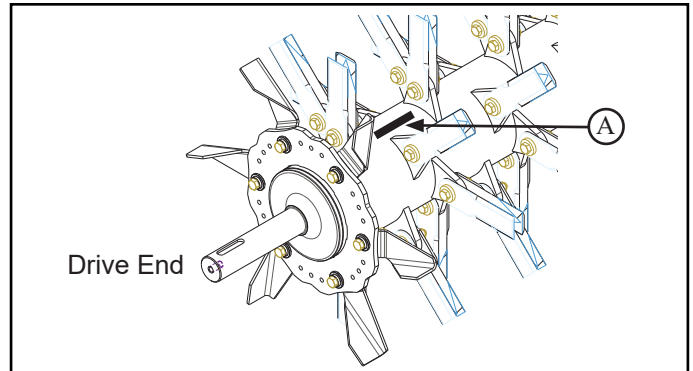
Knifebar Adjustment
RP942



0.23 Serial Number

1. Rotor serial number (A):

- stamped on the rotor, located on the drive end



2. Straw chopper serial number plate (B):

- located on the chopper wall, non-drive side, below the rotor shaft shield



1 OEM Chopper Preparation

The below instructions and pictures are for a S700 with an advanced power cast tailboard. If your system is different than shown, follow the procedure although the parts may have slight variations.

1.1 Shield Removal

1.1.1 Remove bottom shields (A1 and A2)



If combine is equipped with the hydraulic power spreader tailboard , the tailboard will be removed, but the hydraulics can remain on the combine or be removed.

- see section 1.2 to leave the hydraulics on the combine

- see section 1.3 to remove the hyd pump, hyd block and hyd lines to the spreader

The below instructions and pictures are for a S700 with an advanced power cast tailboard. If your system is different than shown, follow the procedure although the parts may have slight variations.

1.2 Procedure to Leave Hydraulics on Combine

Parts List:

H38-1010FFX Fit Hyd 90deg

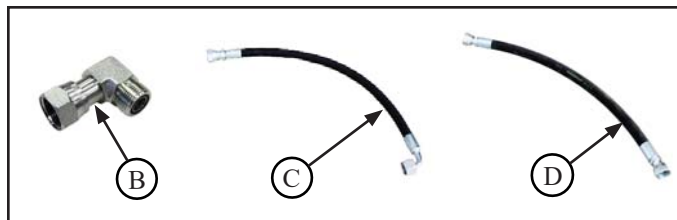
10 MORF - 10 FORFX Swivel (B) Qty 1

HH122 Hose Hyd .5 x 24L

8 FORFSX90 - 10 FORFSX (C) Qty 1

HH123 Hose Hyd .5 x 24L

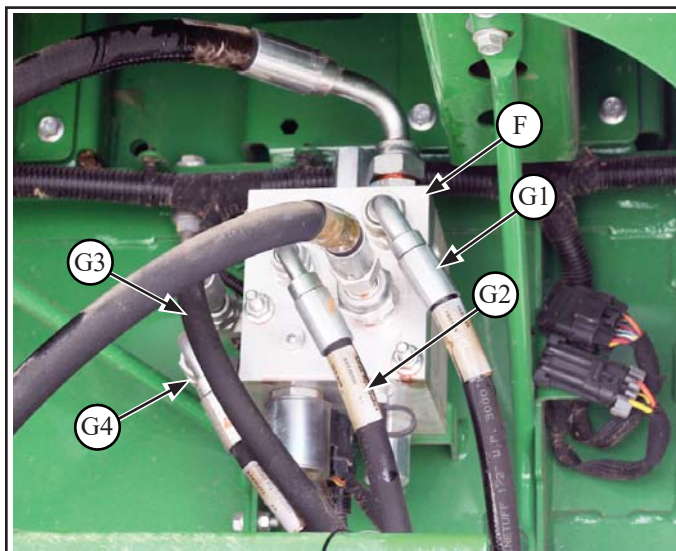
8 FORFSX - 10 FORFSX (D) Qty 1



1.2.1 Use vacuum pump D15032NU on resevoir fill spout which will allow removal of hydraulic components without draining the reservoir.

1.2.2 Remove power spreader hydraulic lines (G1 & G2) from front of hydraulic block (F) - place onto top of spreader

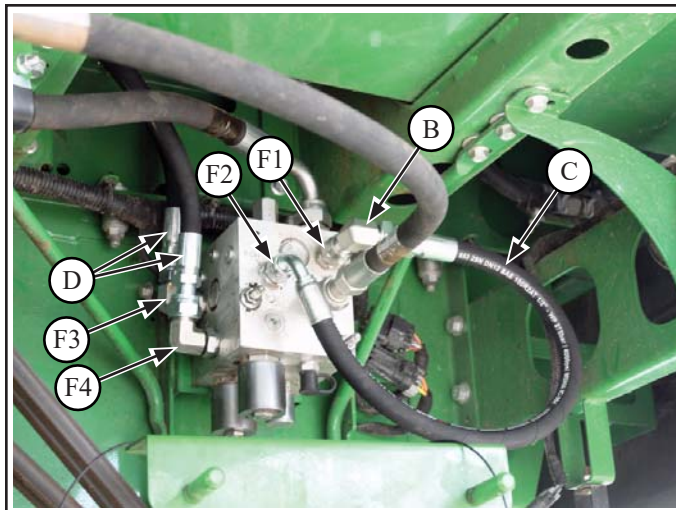
1.2.3 Remove power spreader hydraulic lines (G3 & G4) from side of hydraulic block (F) - place onto top of spreader



1.2.4 Install hydraulic fitting (B) into front hydraulic block port (F1)

1.2.5 Install hydraulic line (C) into fitting (B) and into front hydraulic block port (F2) creating a loop

1.2.6 Install hydraulic line (D) into side hydraulic block ports (F3 & F4) creating a loop



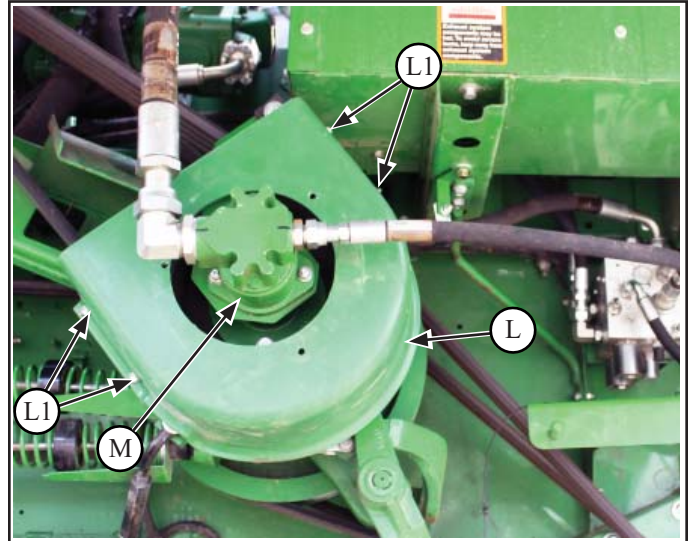
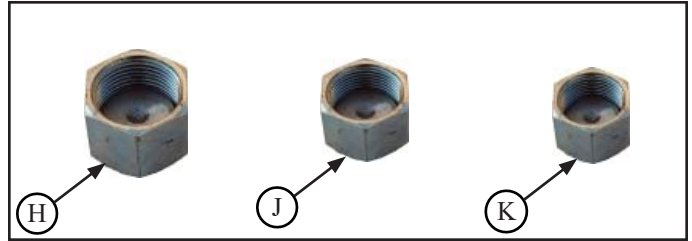
1.3 Procedure to Remove Hydraulics from Combine

Procedure to remove pump (M), hydraulic block (S) and lines to spreader motors from combine if equipped with hydraulic power spreader

Parts List:

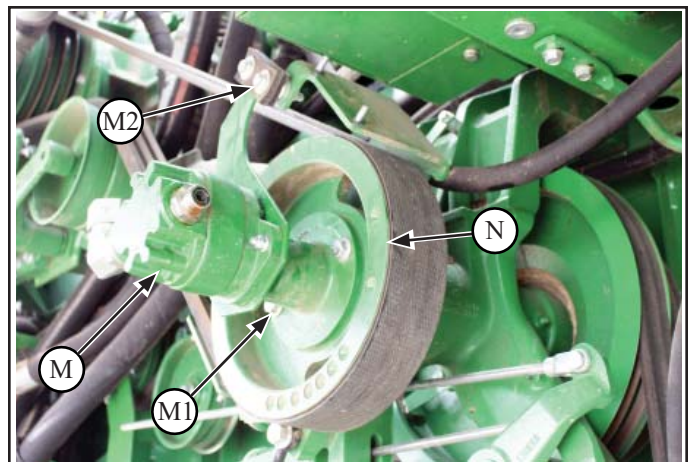
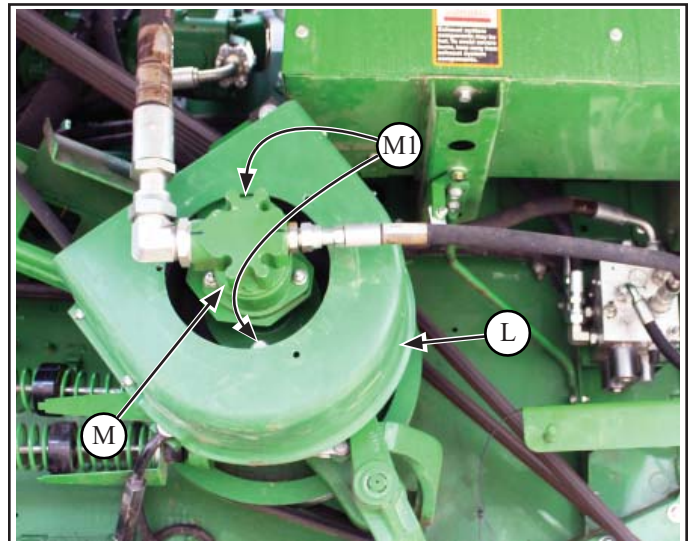
H14-20F Fit Hyd Cap 20 FORS (H) Qty 1
H14-16F Fit Hyd Cap 16 FORS (J) Qty 1
H14-12F Fit Hyd Cap 12 FORS (K) Qty 1

1.3.1 Remove shield (L) from brackets (L1) around hydraulic pump (M)



1.3.2 Through opening in shield around pump, remove hydraulic pump (M) from sheave (N)

- disconnect plate (M2) from bracket
- disconnect pump (M1) from sheave (N)
- tie up pump, shield and hoses in order to work on sheave



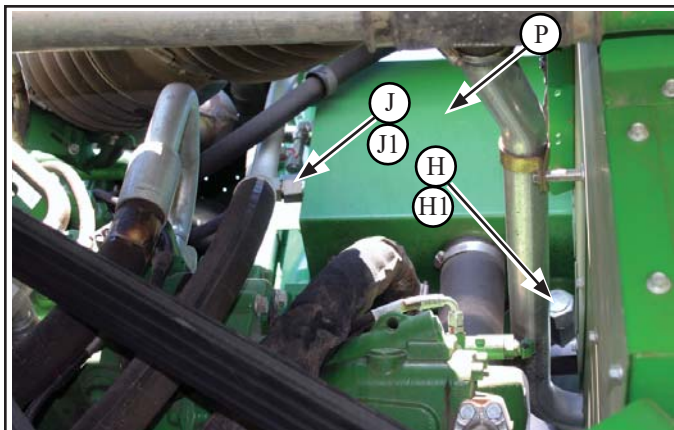
View with shield and hose removed for reference of hardware and brackets behind shield

1.3.3 Drain oil from resevoir (**P**) (approx. 15 gals) or use vacuum pump D15032NU on resevoir fill spout which will allow removal of hydraulic components without draining the resevoir

1.3.4 Disconnect hydraulic lines from resevoir (**H1**) and line (**J1**)

1.3.5 Install hydraulic cap (**J**) or (**K**) onto resevoir port

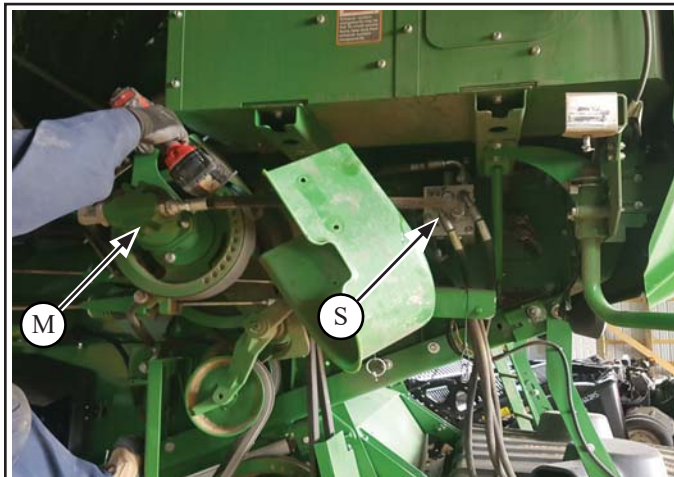
1.3.6 Install hydraulic cap (**H**) onto resevoir port



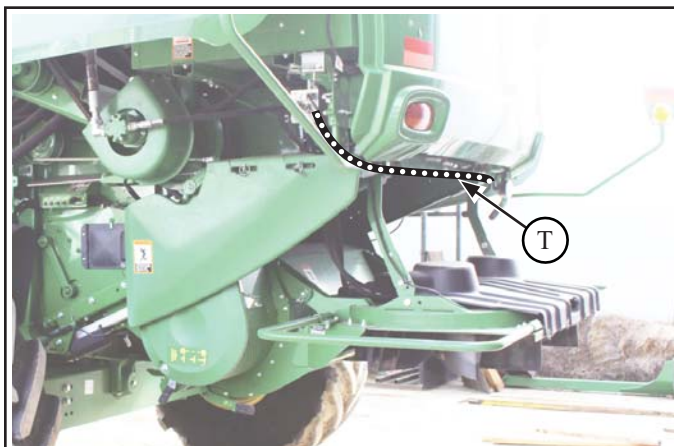
1.3.7 Remove hydraulic pump (**M**) and disconnect hydraulic hoses to hydraulic block (**S**)

1.3.8 Remove hydraulic block (**S**)

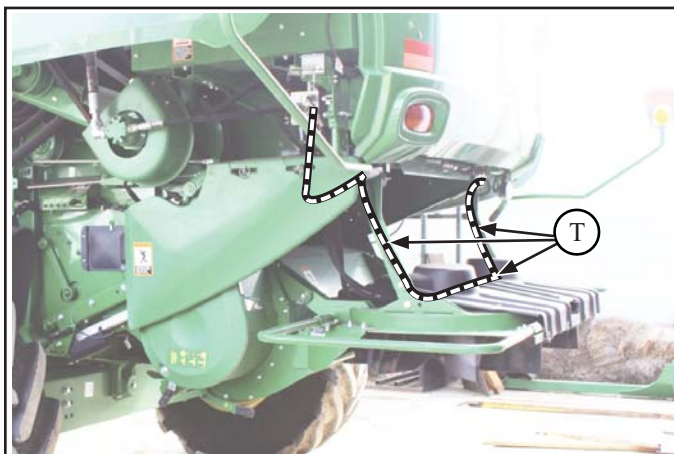
1.3.9 The pump (**M**) and hydraulic block (**S**) are not to be reused with the MAV chopper and can be stored



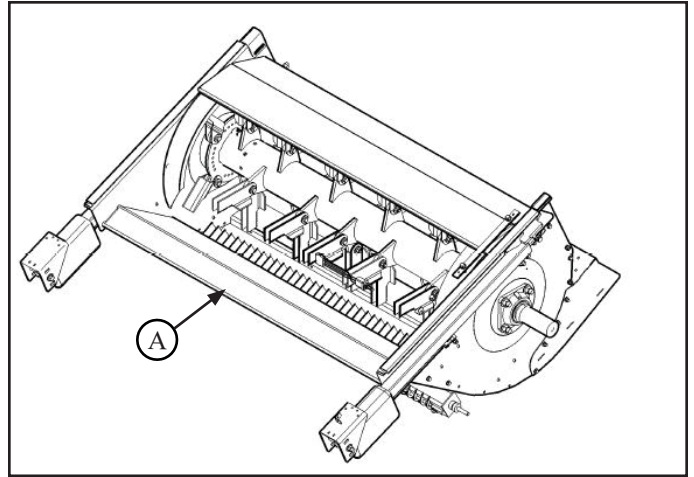
1.3.10 Remove wire harness (**T**) connected to the hydraulic block and spreader from the spreader and arms. Keep harness connected to hydraulic block.



1.3.11 Tie up harness (**T**)



1.4 OEM Chopper (A) and Components Removal



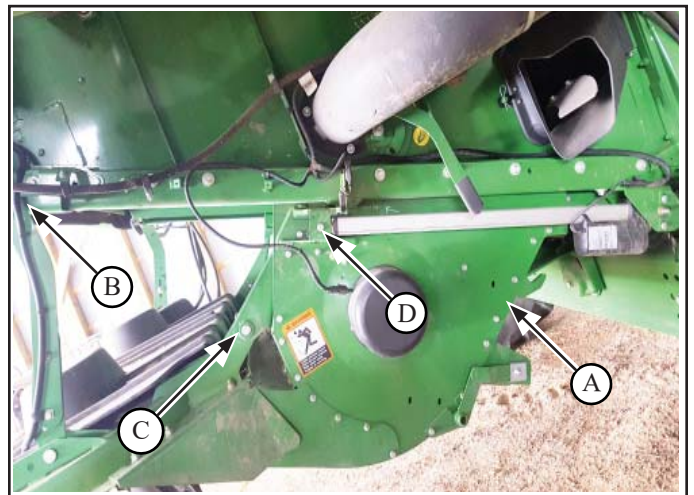
1.4.1 Move chopper (A) into upper position with actuators all the way out



Ensure chopper is securely supported

1.4.2 Position a pallet underneath chopper with a forklift to hold the weight. It may be necessary to remove the tailboard first by pulling pins at (B) and (C)

1.4.3 With chopper supported, actuator pins (D) can be removed and the actuators stroked back in

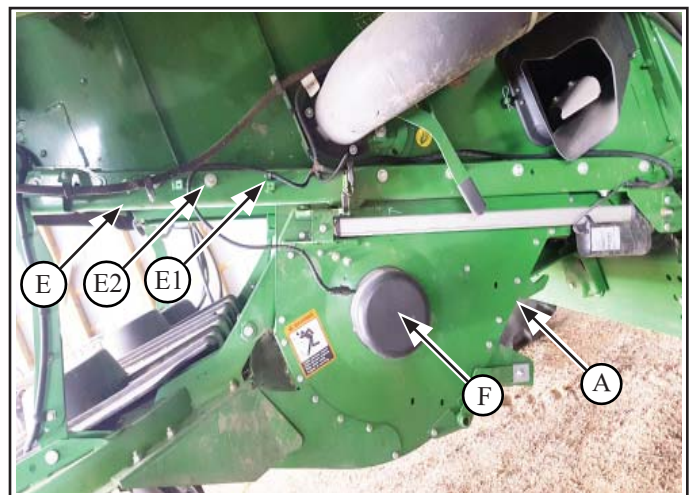


1.4.4 Remove or unplug all hydraulic and electrical clips and wires (E1) secured to the rail (E) or chopper.

1.4.5 Remove the John Deere chopper speed sensor and target from under cover (F)
- to be reinstalled onto the Redekop chopper

1.4.6 Remove all hardware (E2) securing rails (E) to combine. The rails can then be removed with the actuator still mounted to the rail

1.4.7 Chopper and tailboard (A) can now be removed and stored



2 S-Series MAV Chopper Housing Installation

2.1 Drive Installation - On combines with the OEM Dual Belt/Gearbox, Fine Cut Chopper (FC)

For combines with the OEM Xtra Fine Cut Chopper (XFC), no drive update is required. Skip section 2.1 and 2.2

Parts List:

RP967 Sheave 4HC S-Series Upper Drv (A) Qty 1
BE4C127K V Belt 4C 127L Kevlar (B) Qty 1
RP968 2HC S-Series HS Chopper Drive (C) Qty 1

On 60 and 70 Series machines with an SCU being installed onto, the upper 3 groove PTO drive sheave is required to be replaced with a 4 groove sheave. See SCU installation manual.

- ordered separately and supplied with 70S SCU

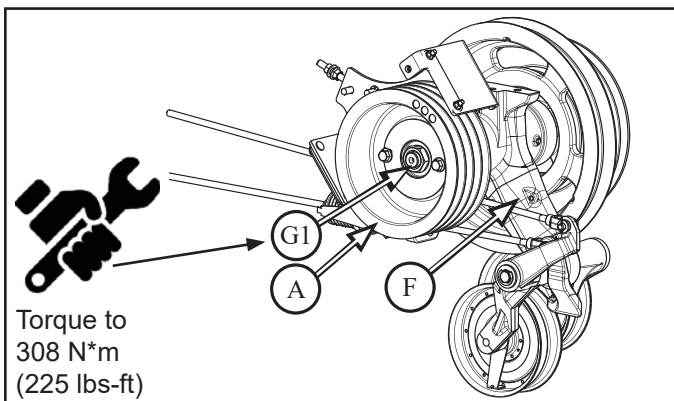
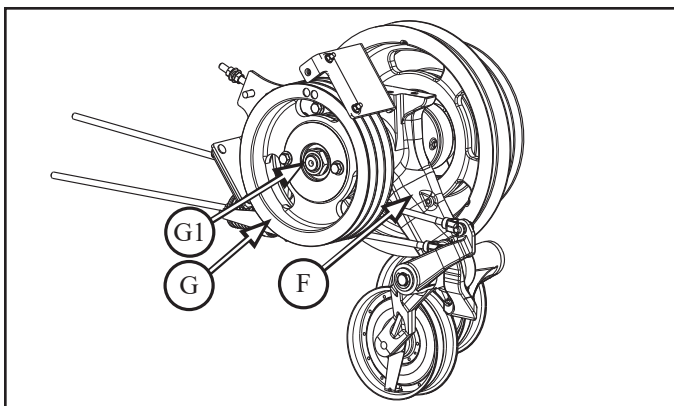
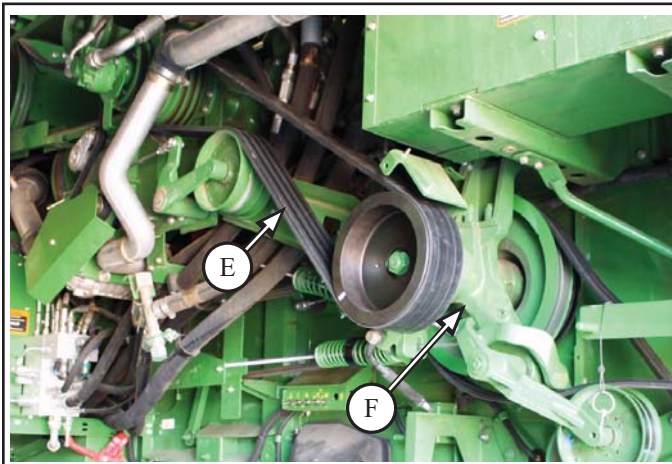
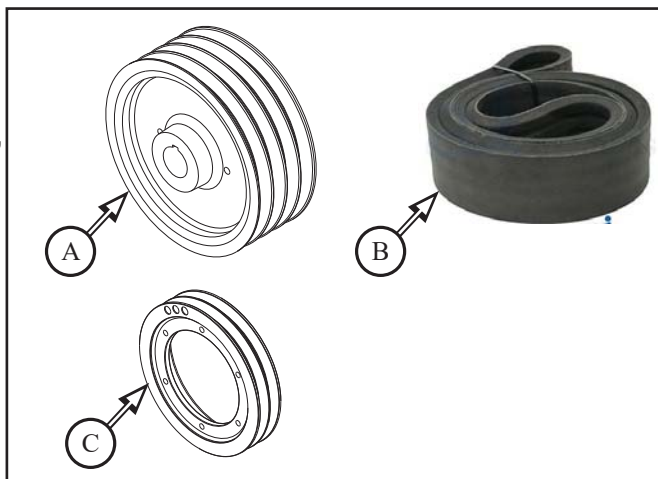
2.1.1 Remove existing 3 groove OEM chopper drive belt (E) from upper jackshaft (F)
- not to be reused

2.1.2 Remove OEM 3 groove outer sheave (G) from jackshaft (F)
- not to be reinstalled
- mounting hardware (G1) to be reused

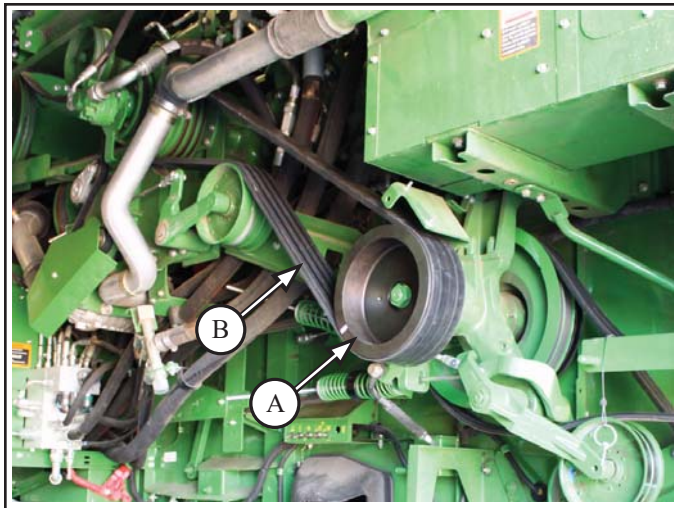
2.1.3 Install new 4 groove outer sheave (A) to jackshaft (F), with:
- reuse mounting hardware (G1)



Torque Nut to 308 N-m (225 lbs-ft)



2.1.4 Install new 4 groove drive belt (B) to sheave (A) and to upper beater drive



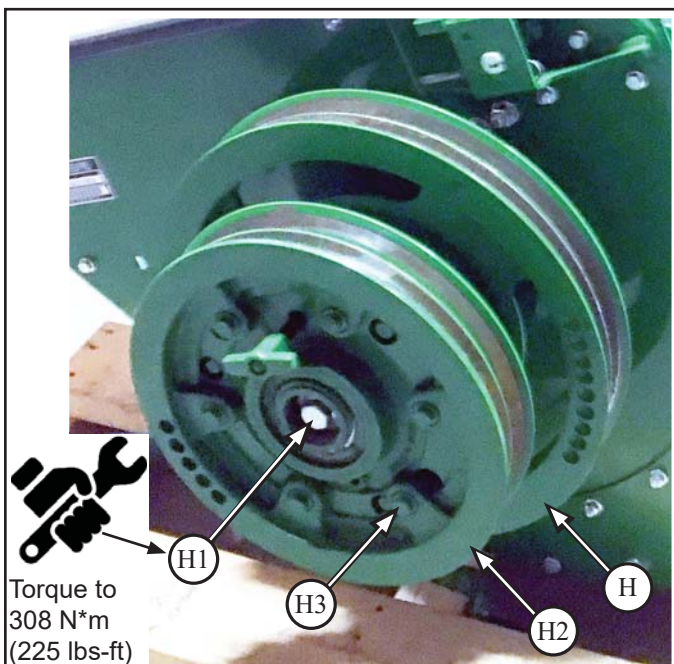
2.1.5 Remove OEM dual speed chopper sheave (H) from factory chopper
- sheave and hardware to be reinstalled on new chopper

2.1.6 Install OEM dual speed chopper sheave (H) onto new chopper drive shaft with:
- reuse existing flat washer and bolt hardware (H1)



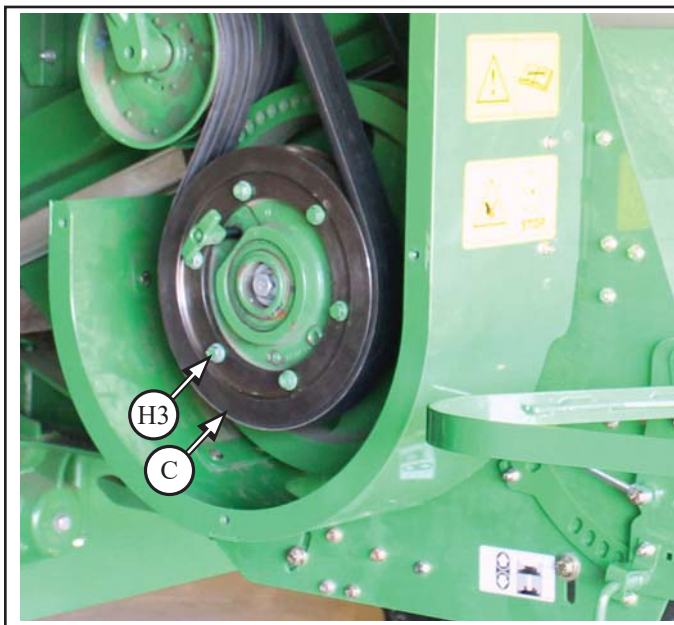
Torque Bolt to 308 N-m (225 lb-ft)

2.1.7 Remove Deere outside sheave (H2)
- hardware (H3) x6, to be reused



2.1.8 If installing an SCU, add SCU drive sheave at this stage. See SCU installation manual

2.1.9 Install new sheave (C) in place of the outside sheave (H2) just removed with:
- reuse mounting hardware (H3) x6

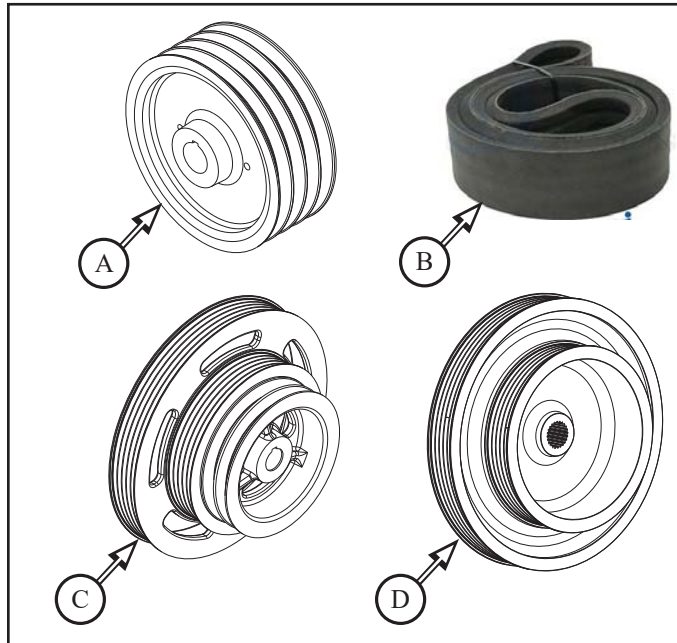


2.2 Drive Installation - On combines with the OEM Single Belt, Fine Cut Chopper (FC)

Components (C & D) located in kit: 340-125SA

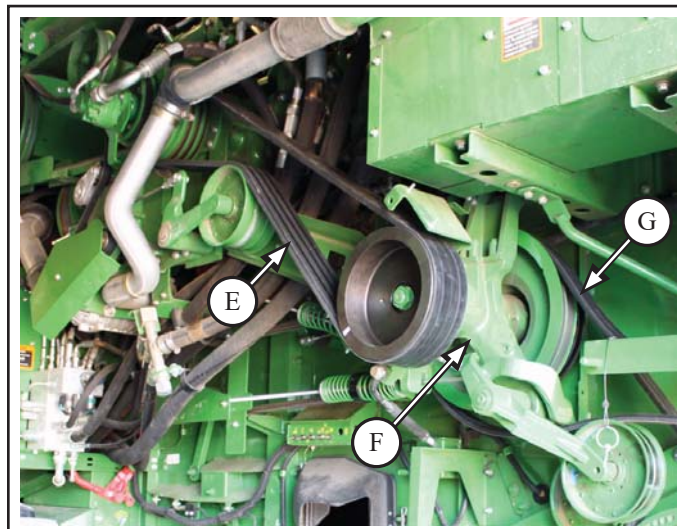
Parts List:

RP967 Sheave 4HC S-Series Upper Drv (A)	Qty 1
BE4C127K V Belt 4C 127L Kevlar (B)	Qty 1
RP1736 Sheave 5M/2C Jackshaft JDS (C)	Qty 1
RP1738 Sheave 5M/4M Chopper JDS (D)	Qty 1



2.2.1 Remove existing OEM 3 groove drive belt (E) from upper jackshaft (F)
- not to be reused

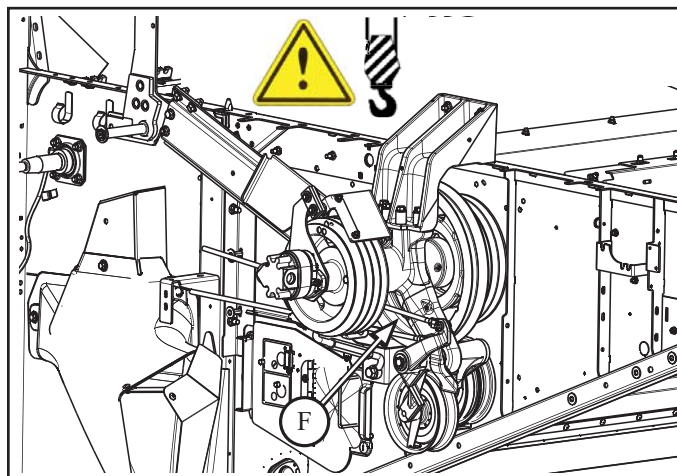
2.2.2 Remove existing OEM chopper drive belt (G) from upper jackshaft (F)
- not to be reused



2.2.3

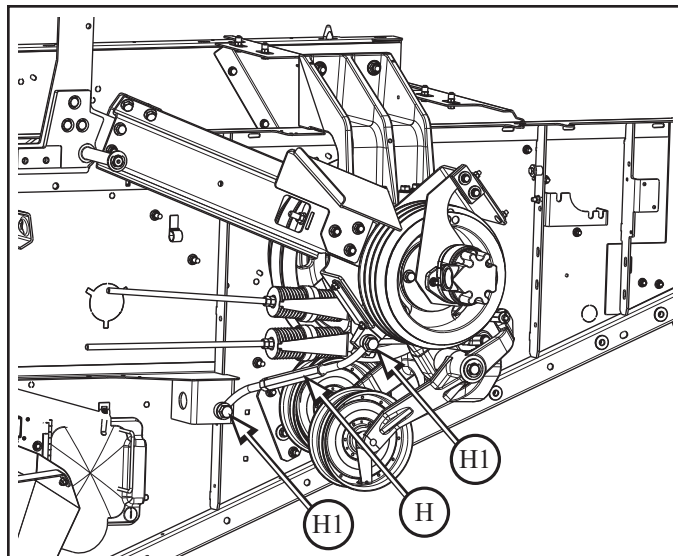


Support jackshaft (F) either with a crane from above or pallet and forklift from below



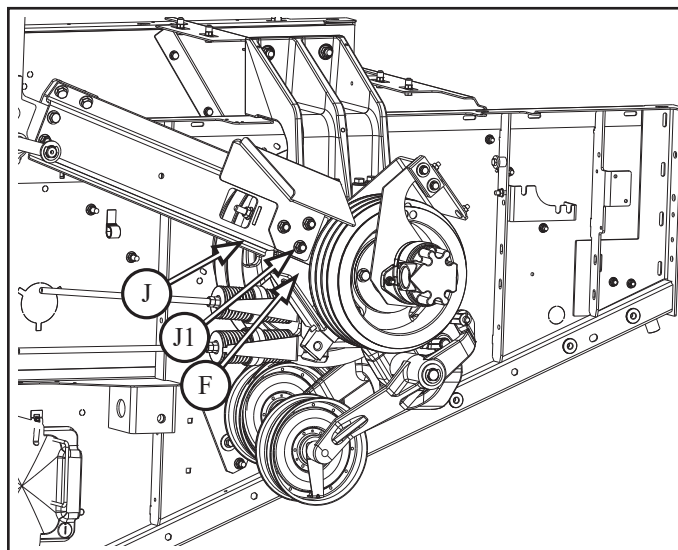
2.2.4 Remove bottom tie rod (**H**) from jackshaft (**F**) and combine

- do not adjust length
- to be reinstalled with existing mounting hardware (**H1**)



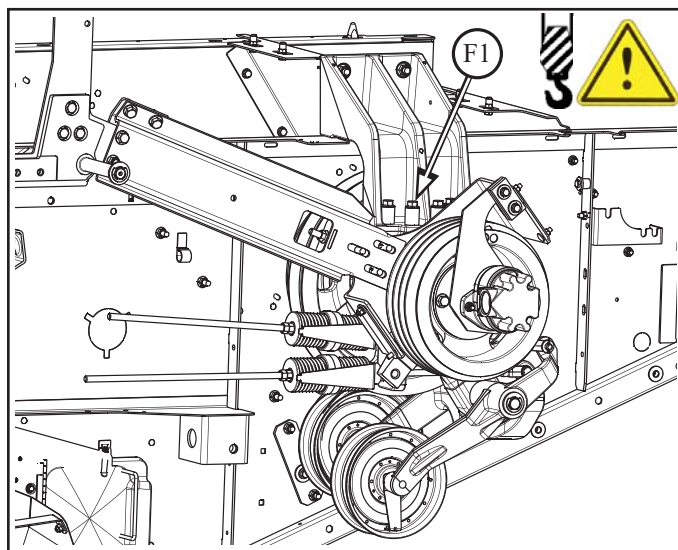
2.2.5 Remove front bracket (**J**) from jackshaft (**F**)

- to be reinstalled with existing mounting hardware (**J1**)



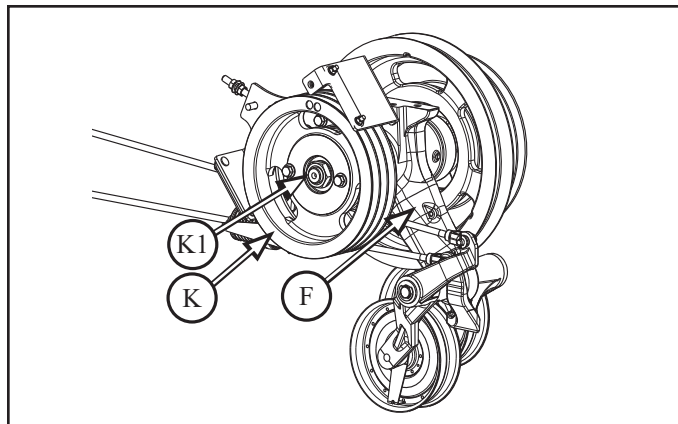
2.2.6 Remove top jackshaft mounting hardware (**F1**) x4
- ensure jackshaft (**F**) is well supported

2.2.6.1 Remove jackshaft (**F**) from combine
- to be reinstalled after sheave replacements



2.2.7 Remove OEM 3 groove outer sheave (**K**) from jackshaft (**F**)

- not to be reinstalled
- mounting hardware (**K1**) to be reused

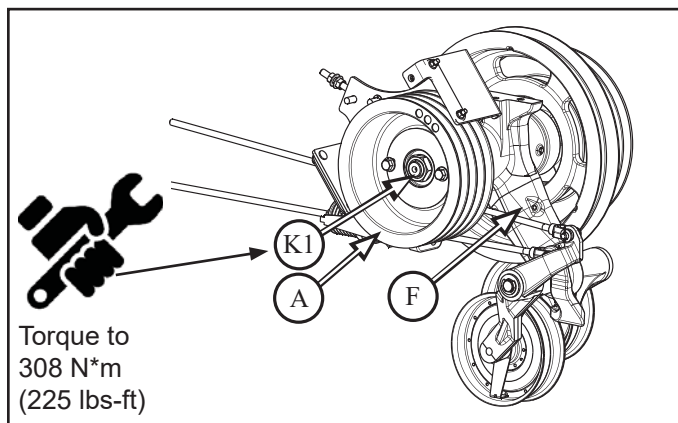


2.2.8 Install new 4 groove outer sheave (**A**) to jackshaft (**F**), with:

- reuse mounting hardware (**K1**)

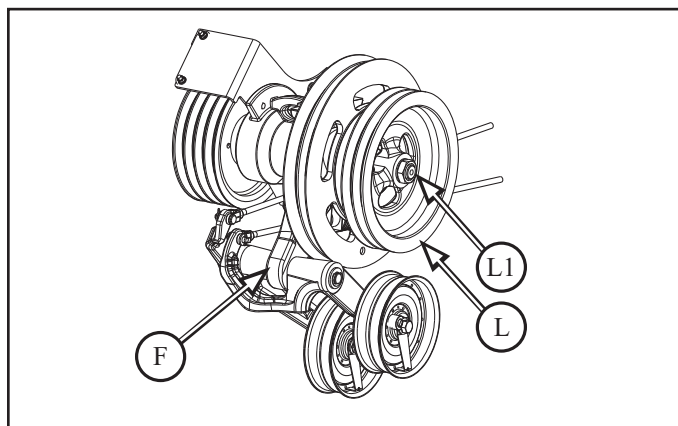


Torque Nut to 308 N-m (225 lbs-ft)



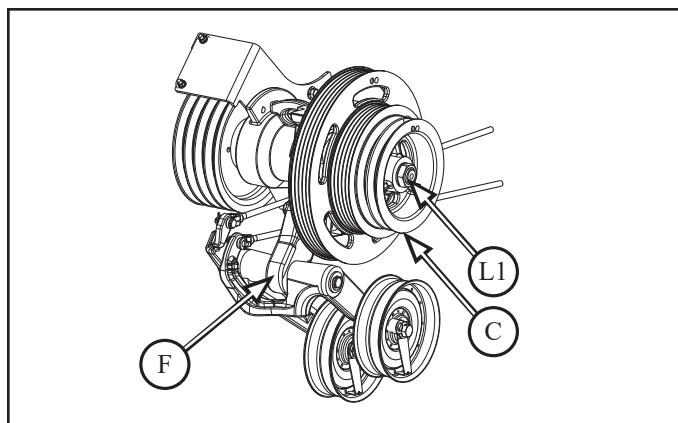
2.2.9 Remove OEM inner sheave (**L**) from jackshaft (**F**)

- not to be reinstalled
- mounting hardware (**L1**) to be reused



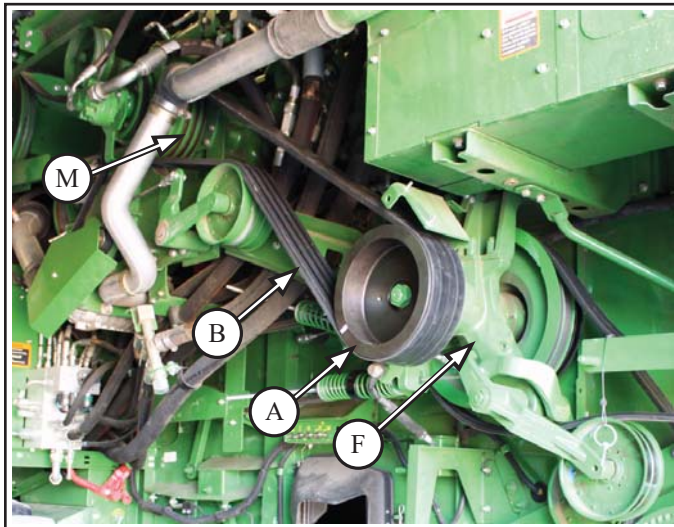
2.2.10 Install new sheave (**C**) to inner side of jackshaft (**F**), with:

- reuse mounting hardware (**L1**)

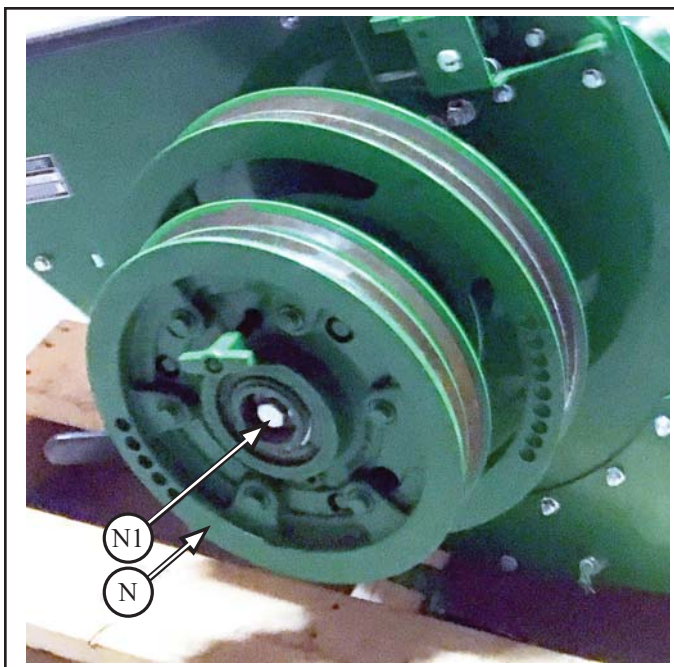


2.2.11 Reinstall jackshaft assembly (**F**) in reverse order

2.2.12 Install new 4 groove drive belt (**B**) to new sheave (**A**) on jackshaft (**F**) and to upper drive sheave (**M**)



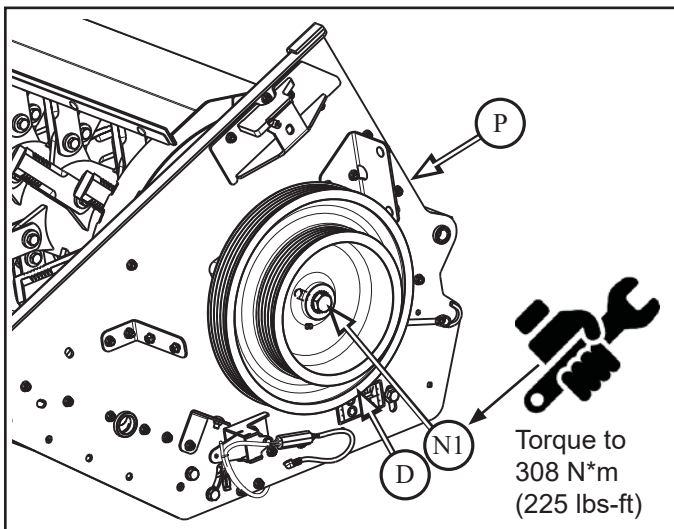
2.2.13 On OEM chopper, remove OEM mounting hardware (**N1**) for chopper drive sheave (**N**)
- mounting hardware (**N1**) to be reused for new sheave
- leave OEM sheave on OEM chopper



2.2.14 Install new chopper drive sheave (**D**) to new MAV chopper (**P**), with:
- reuse mounting hardware (**N1**)



Torque Bolt to 308 N-m (225 lbs-ft)



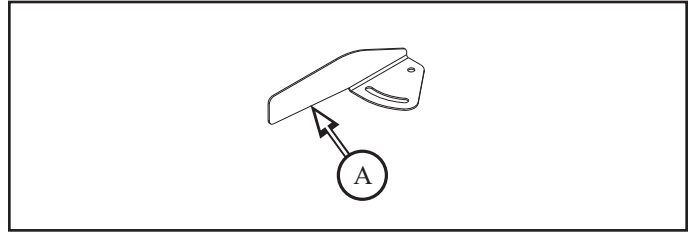
2.3 Beater Fin Installation

Parts List:

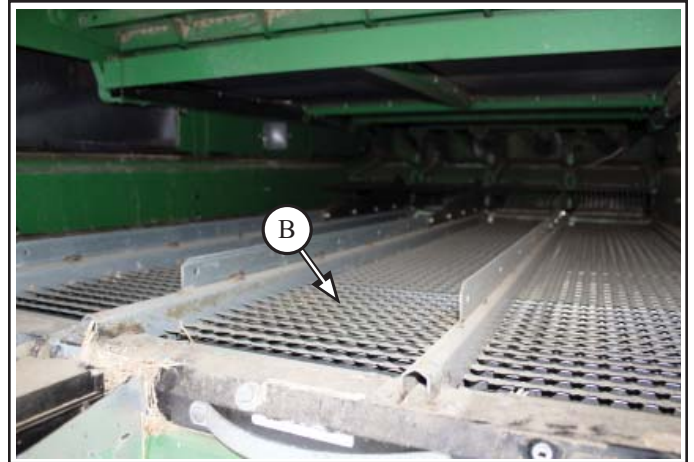
SC1646G Beater Fin (A)

Qty 2

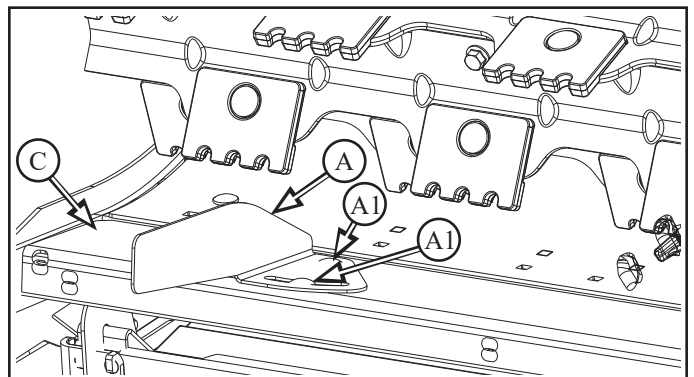
SC1646S Bag Hdw Beater Fin Mount



2.3.1 Adjust combine sieves (B) to closed position (so they are laying flat) in order to prevent damage when installing the beater components. To avoid louver damage, protect with a board overtop of sieves.



2.3.2 Install beater fins (A) x2 on top of factory beater plate (C) one on each end, with:
- M10 x 35 round allen head bolt and flange nut (A1) x4
- leave loose at this stage and align as per the following procedure

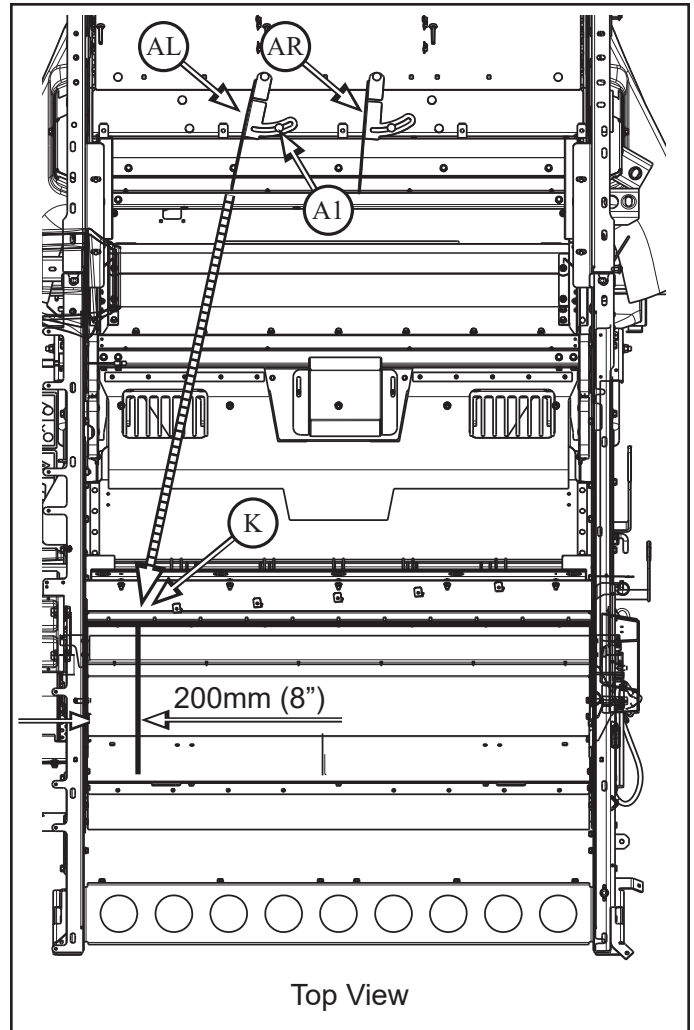


2.3.3 Align the beater fins as follows:

2.3.3.1 Aim the left fin (**AL**) for a point about 200mm (8in) from the left wall at the bottom of the rear deflector wall/top of the chopper inlet (**K**)

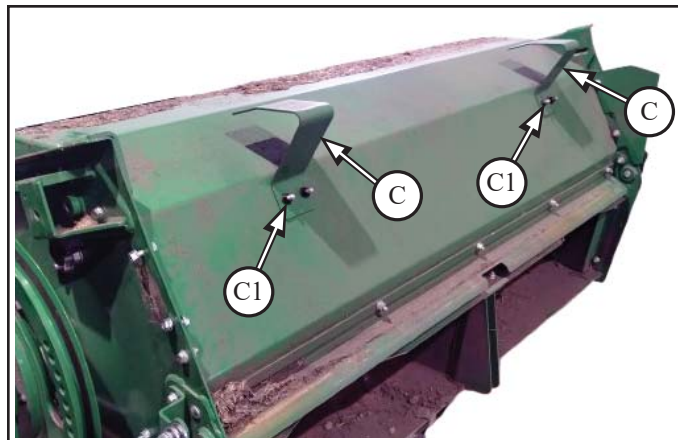
2.3.3.2 Align the right fin (**AR**) parallel to the left fin (**AL**)

2.3.3.3 Tighten all hardware



2.4 Swath Panel Brackets - On combines with an overshot beater and rear straw discharge

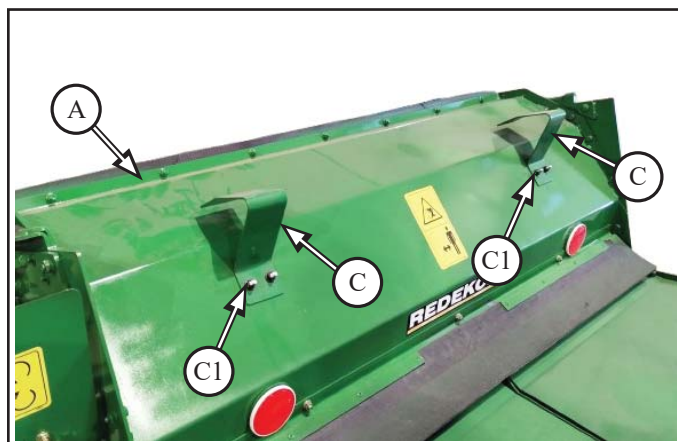
- 2.4.1** Remove bracket (C) x2 from OEM chopper
- to be reinstalled on new chopper
 - mounting hardware (C1) x4 to be reused



- 2.4.1.1** Knock out tab (C2) x4 from new chopper (A)



- 2.4.1.2** Install bracket (C) x2 removed from OEM chopper to holes (C2) in new chopper (A), with:
- reuse mounting hardware (C1) x4

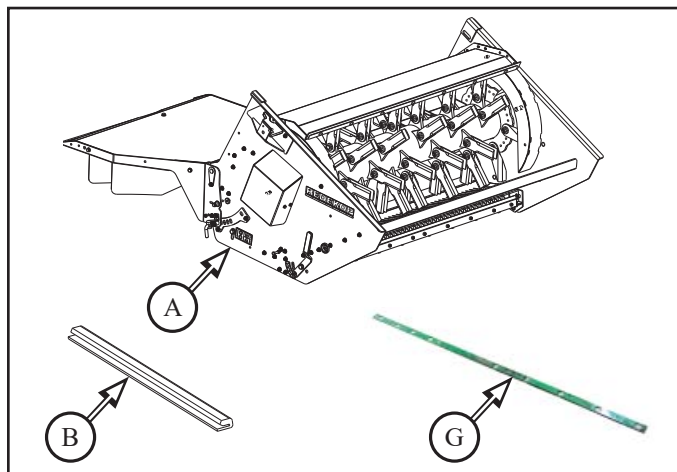


2.5 S-Series MAV Chopper Housing Installation

Parts List:

CD621GA	S-Series Housing Upgrade Assy (A)	Qty 1
CD636-01	S-Series Slider (B)	Qty 2
	OEM Spacer Plate (G)	Qty 2

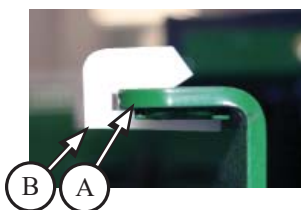
If short forks only available on the forklift for lifting, the tailboards may need to be removed for the housing installation



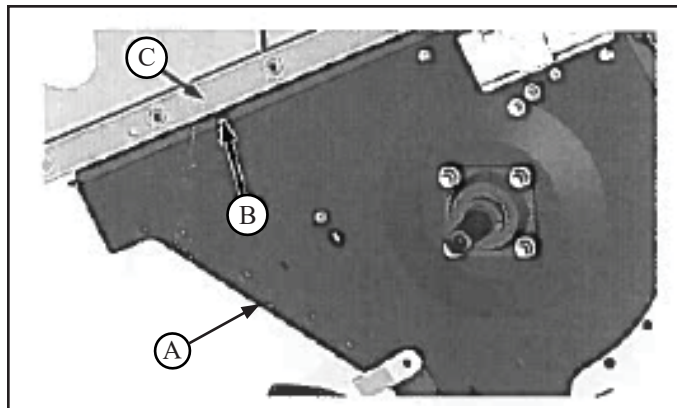
2.5.1  Rotate chopper rotor by hand to ensure all blades rotate freely

2.5.2  Check that the Knifebar in the chopper moves freely

2.5.1 Install plastic guide (B) onto chopper lip (A1)
- both sides
- thicker portion to be on top of lip



2.5.2 Lift chopper (A) up to bottom side of combine (C). Raise chopper until the plastic guides (B) are flush with underside of combine sidesheets - both sides



2.5.3 Reinstall Deere slide rail (F) under the plastic guide (B) and channel of combine bottom panel. Ensure the spacer plate (G) is between slide rail and combine channel (tape into place).

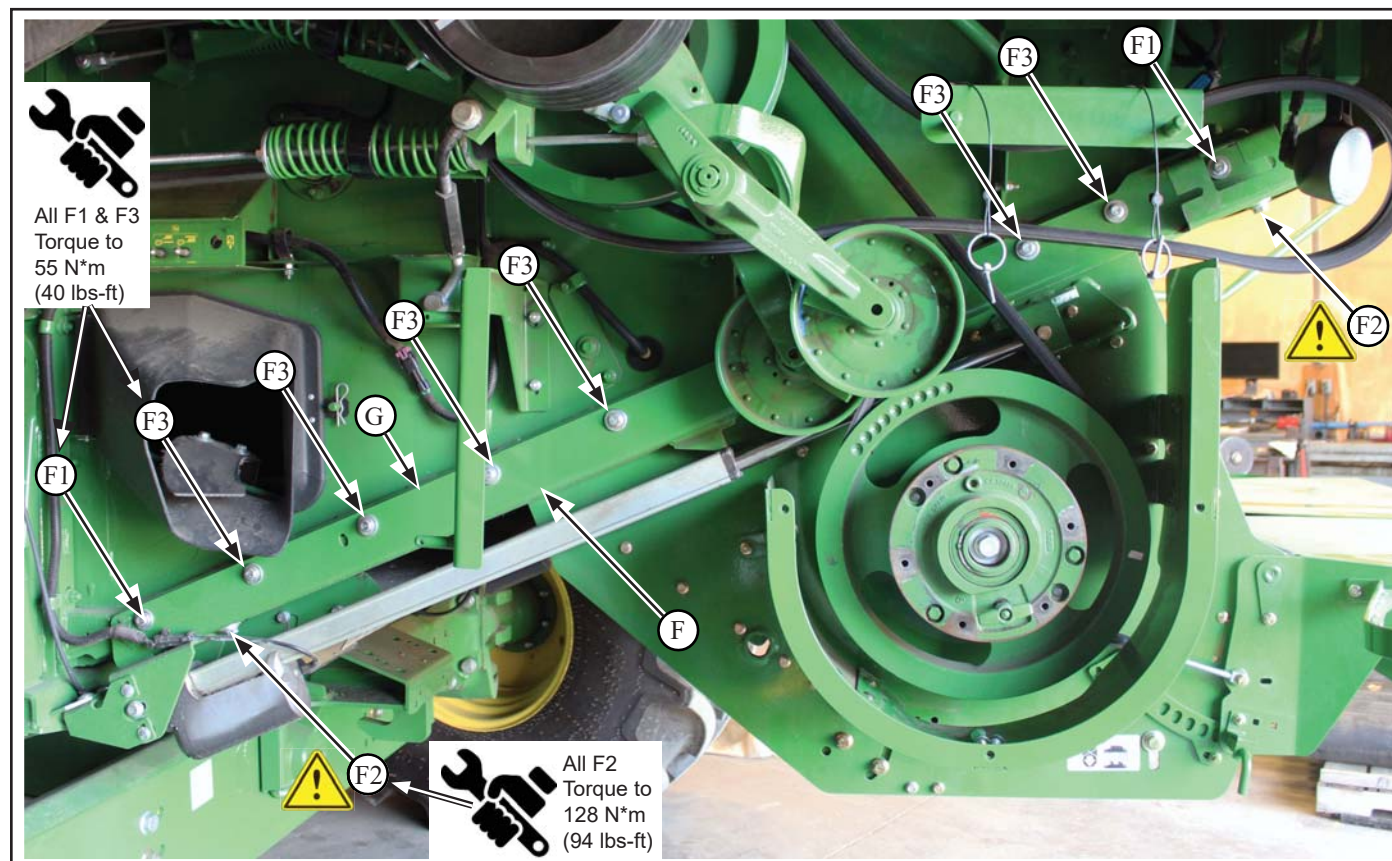


Important to install side rail hardware as directed below
- bolts F2 can be slightly threaded in prior to installing rail

Fasten with existing flatwashers and bolt hardware in the following order:

- F1 hand tighten
- F2 tighten to specification (128N*m / 94lbs-ft) - ensure rail is pulled tight against frame 
- F3 hand tighten
- Verify that the chopper rail is flush to the side sheet
 - if spacer plate has fallen out of position it can create a gap which has to be corrected
- Tighten all hardware to specification (55N*m / 40lbs-ft)

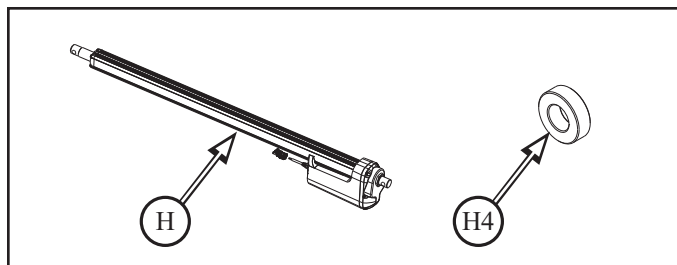
Repeat on other side



2.6 Actuator installation

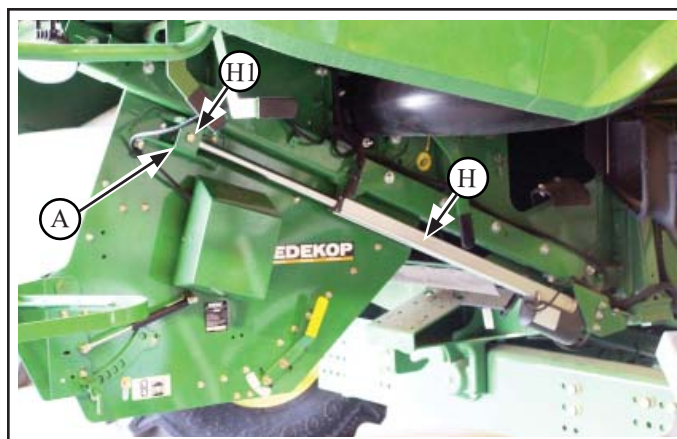
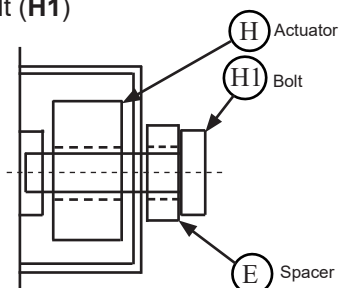
Parts List:

OEM Actuator (H)	Qty 2
CD664Z Spacer .5 IDx1.0 ODx.313 L (H4)	Qty 2
CD680S Hardware Bag	



2.6.1 Attach head of linear actuator (H) to chopper housing (A) with:

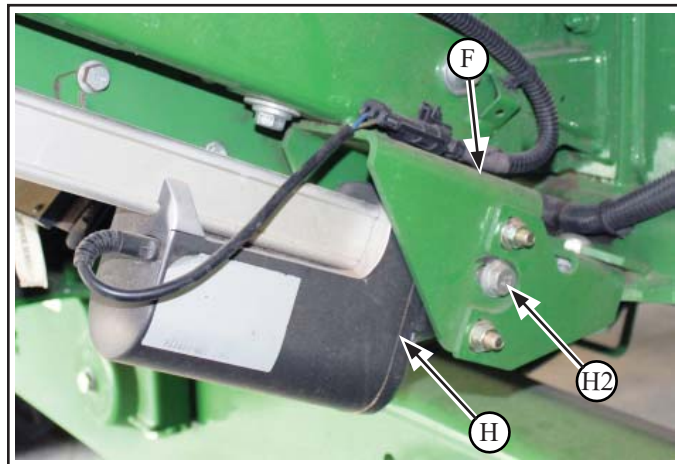
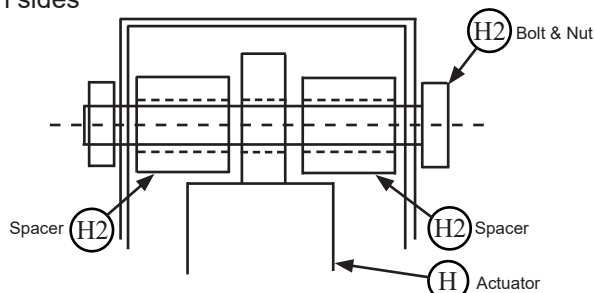
- M12 x 60 flange head bolt (H1)
- CD664Z Spacer (H4)



2.6.1.1 Repeat for other side

2.6.2 Attach bottom of linear actuator (H) to middle hole of slide rail bracket (F) with existing hardware:

- M12 x 120 flange bolt, lock nut and spacer (H2) x2
- do not tighten locknut until it contacts the rail, make sure bolt is able to slide freely within the rail slot
- both sides



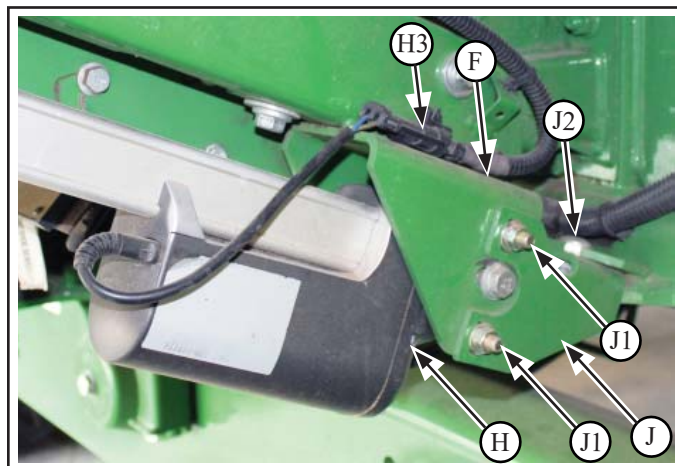
2.6.3 Install rail mount bracket (J) (if applicable) to slide rail bracket (F) with existing hardware:

- M10 x 25 round head bolt and flange nut (J1) x4
- M12 x 30 round head bolt and flange nut (J2) x2

2.6.3.1 Reconnect actuator harness (H3) to main harness

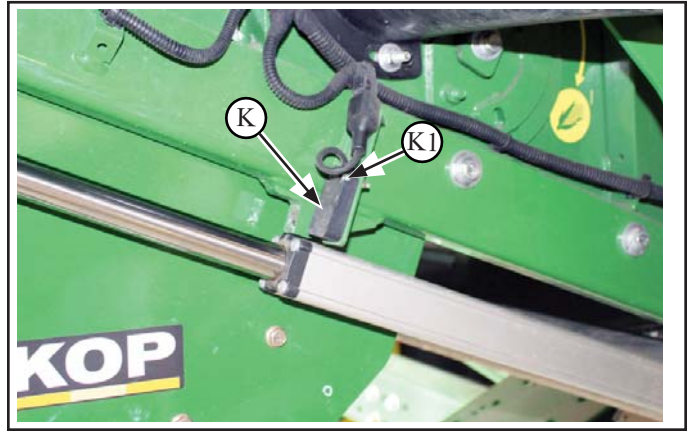
2.6.3.2 Route and attach harness to ensure wire will not be pinched

2.6.3.3 Repeat for other side



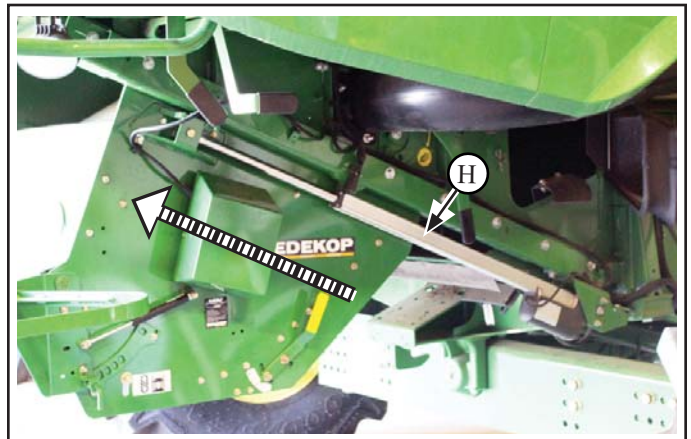
2.6.4 Reinstall sensor (**K**) on the right hand chopper rail with existing hardware:

- M4x18 screws and nuts (**K1**) x2



2.6.5  Synchronize up the actuators (**H**) by fully extending the actuators (**H**) to run the chopper all the way up/rearward

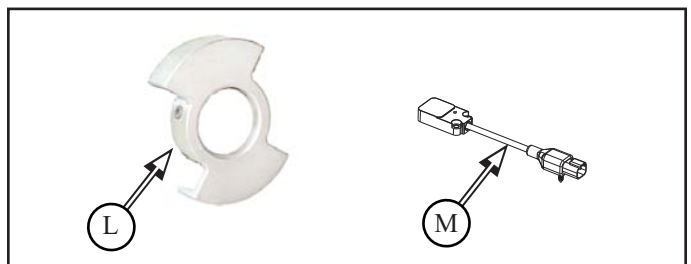
- do not move chopper forward before synching up actuators
- ensure inside of rails is clear of chaff and debris



2.7 Speed Sensor and Target Installation

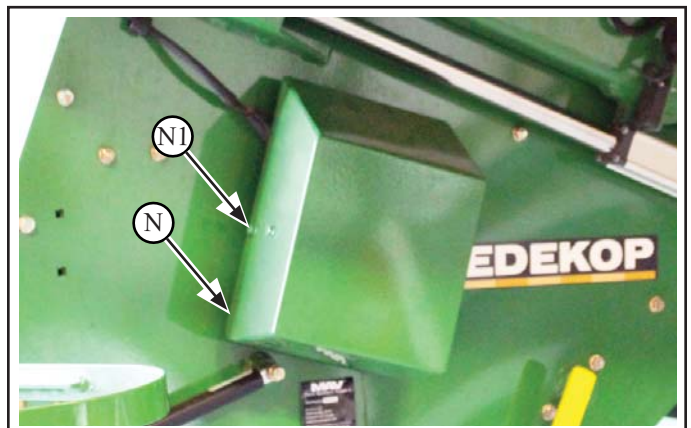
Parts List:

OEM Speed Sensor Target (L)	Qty 1
OEM Speed Sensor (M)	Qty 1



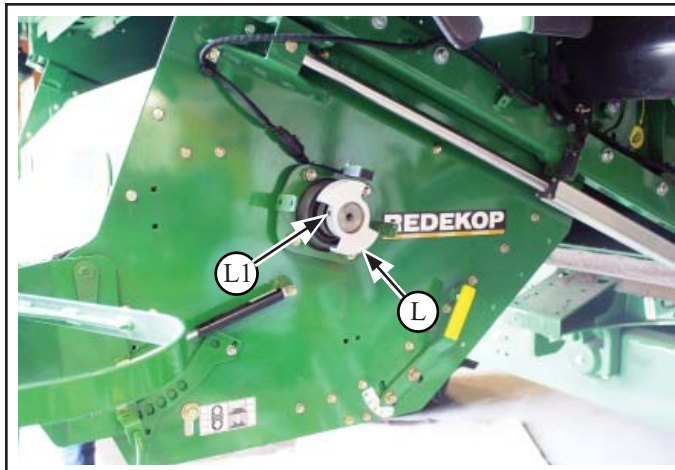
2.7.1 Remove sensor shield (**N**) on right side of chopper housing

- to be reinstalled



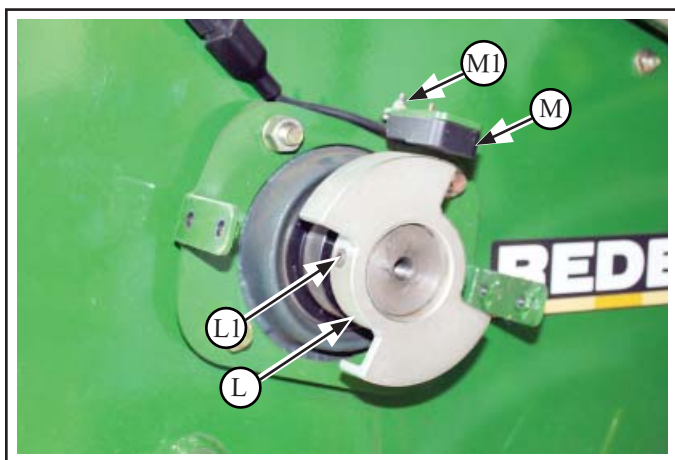
2.7.2 Reinstall speed sensor target (**L**) on the right hand chopper shaft with existing hardware:

- setscrew (**L1**)



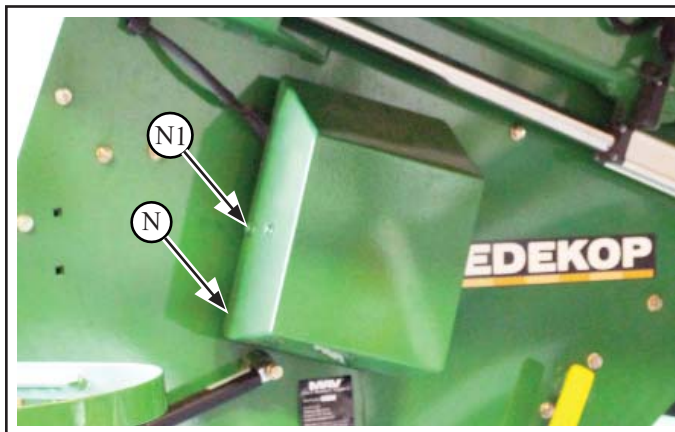
2.7.3 Reinstall sensor (**M**) over the speed sensor target (**L**) with existing hardware:

- M4 x 18 screws and nuts (**M1**) x2



2.7.4 Reinstall sensor shield (**N**) on the right hand chopper shaft with:

- M6 x 16 flange bolts (**N1**) x4

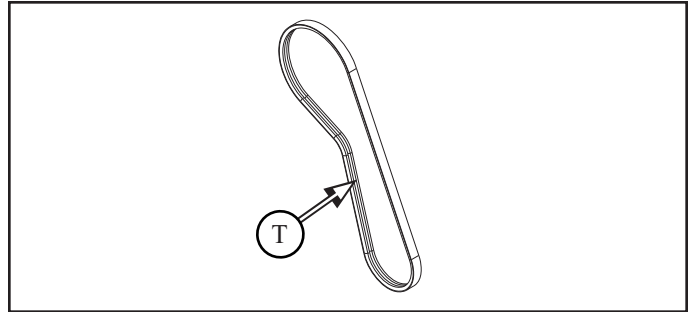


2.8 Drive Belt Installation

2.8.1 Drive Belt Installation - On combines with the OEM Dual Belt/Gearbox, Fine Cut Chopper (FC)

Parts List:

BE2C112K V Belt 2C 112L Kevlar (T) Qty 1



All belts must be placed on Jackshaft before installing to chopper sheaves.

1st - BE2C112K (T) onto large Jackshaft sheave

2nd - Beater Belt (S1) onto middle sheave

3rd - Existing low speed belt (S) on sheave closest to wall

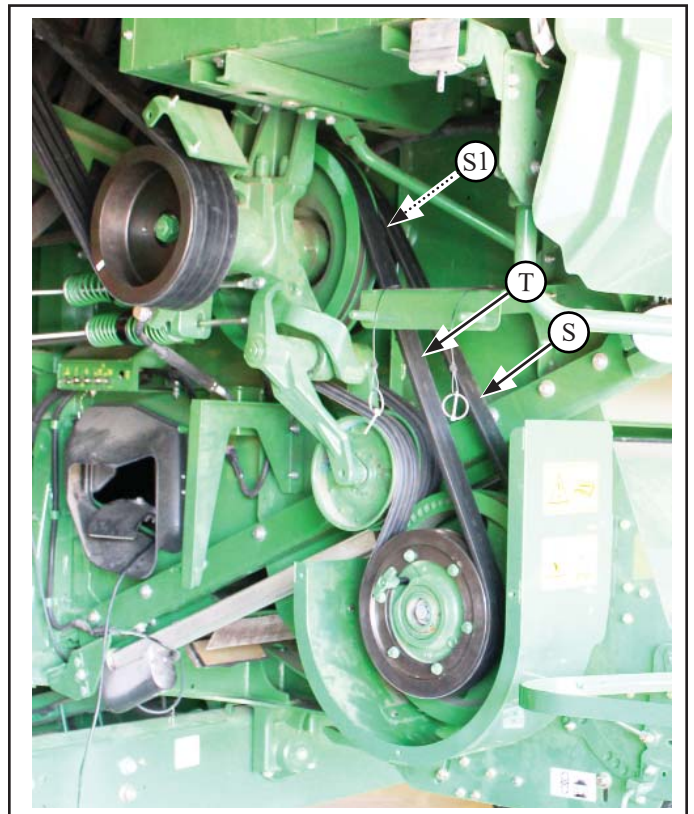
2.8.1.1 If installing SCU - hang SCU drive belt onto middle chopper drive sheave at this stage

2.8.1.2 Reinstall existing low speed drive belt (S) onto large drive sheave on chopper

2.8.1.3 Reinstall beater drive belt (S1) from jackshaft up to beater

2.8.1.4 Install new high speed 2 groove BE2C112K V drive belt (T) onto outer drive sheave on chopper

2.8.1.5 Tighten all belt spring tensioners to indicated length



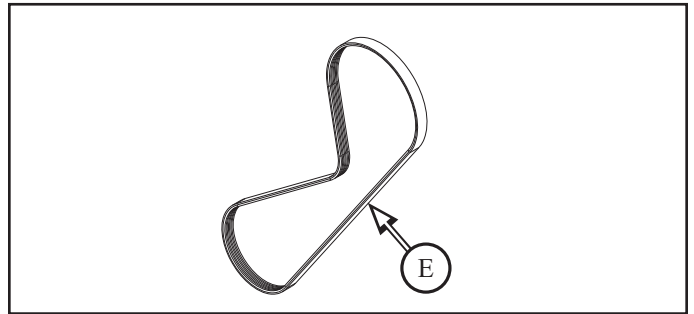
2.8.2 Drive Belt Installation - On combines with the OEM Single Belt, Fine Cut Chopper (FC)

Belt located in kit: 340-125SA

Parts List:

BE5M113K V Belt 5M 113L Kevlar (**E**)

Qty 1



All belts must be placed on Jackshaft before installing to chopper sheaves.

1st - BE5M113K (**E**) onto large Jackshaft sheave

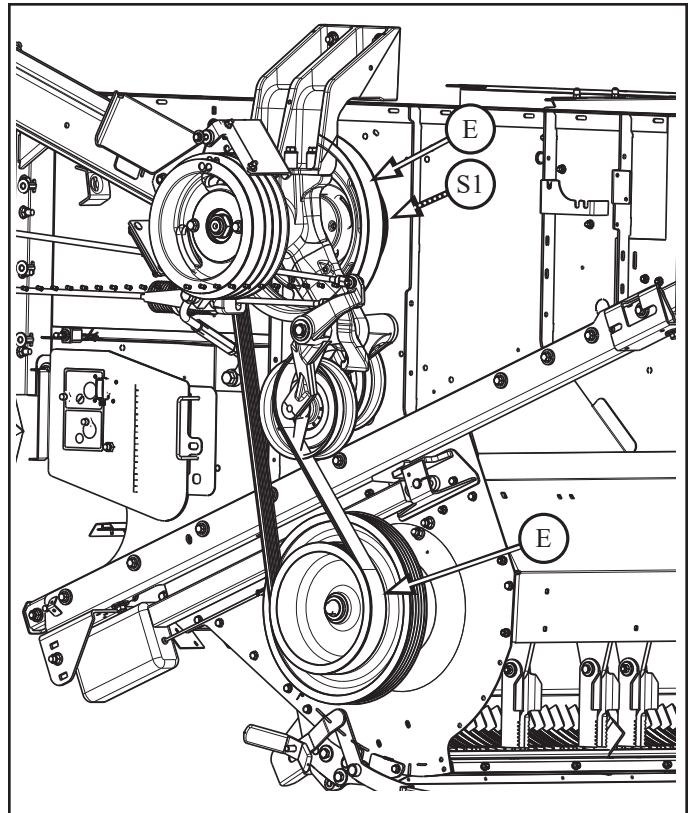
2nd - Beater Belt (**S1**) onto inner sheave

2.8.1.1 If installing SCU - hang SCU drive belt onto inner chopper drive sheave at this stage

2.8.2.2 Reinstall beater drive belt (**S1**) from jackshaft up to beater

2.8.2.3 Install new BE5M113K drive belt (**E**) onto outer small drive sheave on chopper

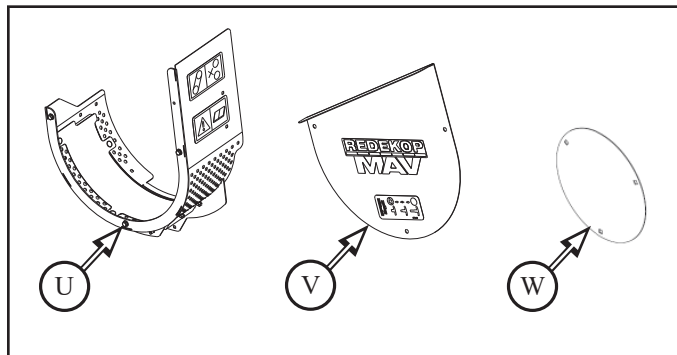
2.8.2.4 Tighten all belt spring tensioners to indicated length



2.9 Shield Installation

Parts List:

SC1509GA	Bottom shield (A)	Qty 1
CD655GA	Bottom shield cover (B)	Qty 1
CD672G	Jackshaft shield plate (G)	Qty 1

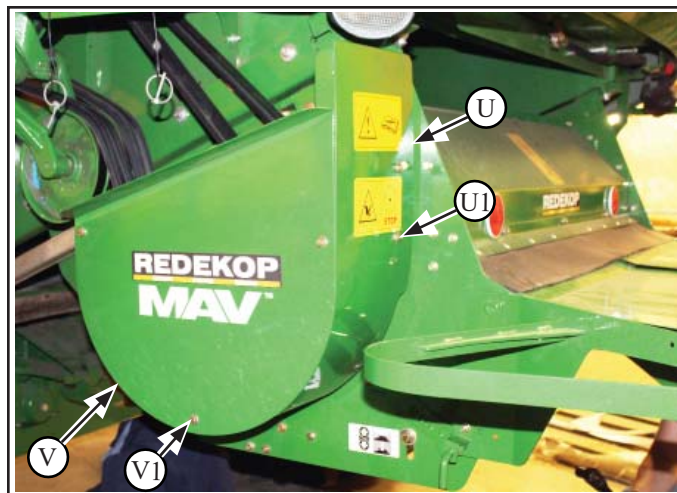


2.9.1 Install new bottom shield (U) onto mount brackets on side of chopper with:

- M8x16 round head bolts and flange nuts (U1) x6

2.9.2 Install new bottom shield cover (V) onto bottom shield (U) with:

- M8x16 flange bolts (V1) x3



2.9.3 If replacing factory chopper with powered tailboard spreaders, install jackshaft shield plate (W) onto side of jackshaft guard with:

- M8x12 round head bolts and flange nuts (W1) x3

2.9.4 Reinstall upper drive shield (Y) onto pins and secure in place with

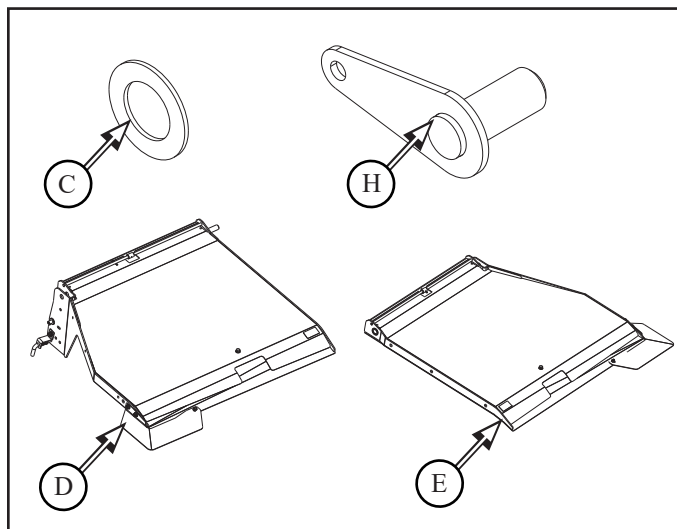
- existing lynch pins (Y1) x4



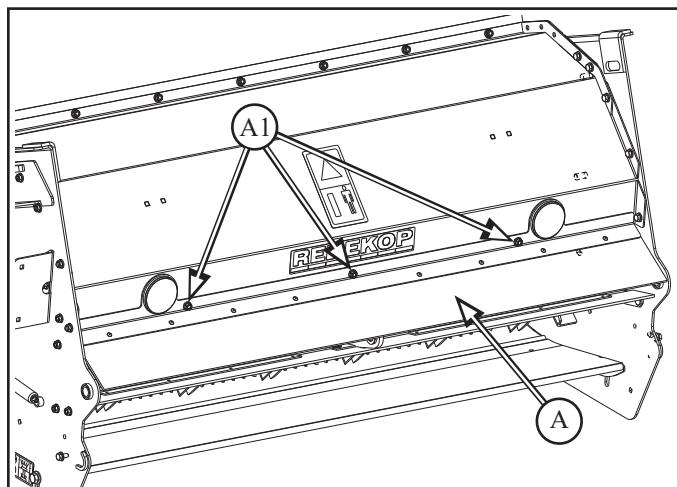
2.10 Tailboard Installation

Parts List:

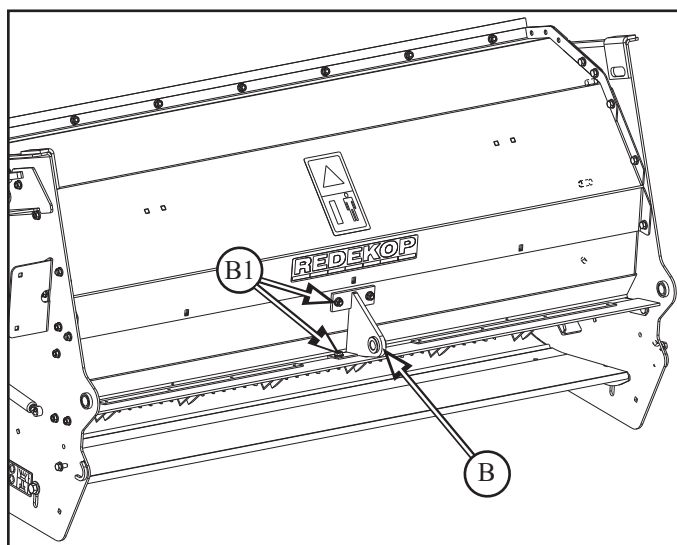
RP108	Machine Bushing .76 id x 1.25 od (C)	Qty 2
	- located in tailboard fin box hardware bag	
CC212Z	Pin Tailboard Pivot (H)	Qty 2
	Tailboard Lt (D)	Qty 1
	Tailboard Rt (E)	Qty 1



2.10.1 Remove top tailboard seal assembly (A) from rear of chopper
- to be reinstalled



2.10.2 Remove tailboard center mount bracket (B) from rear of chopper
- to be reinstalled



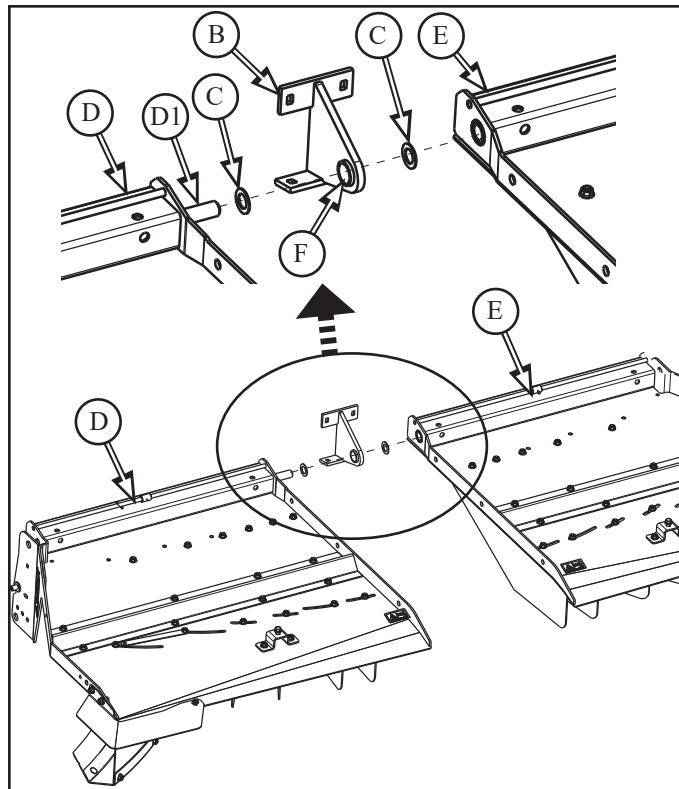
2.10.3 Slide washer (C) onto left tailboard pin (D1)

2.10.4 Slide tailboard mount bracket (B) onto tailboard pin (D1)

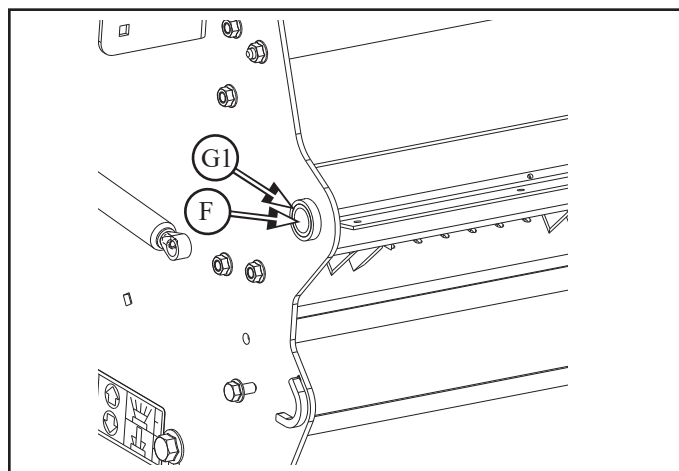
- ensure nylon bushing (F) is in hole of bracket (B)

2.10.5 Slide washer (C) onto tailboard pin (D1)

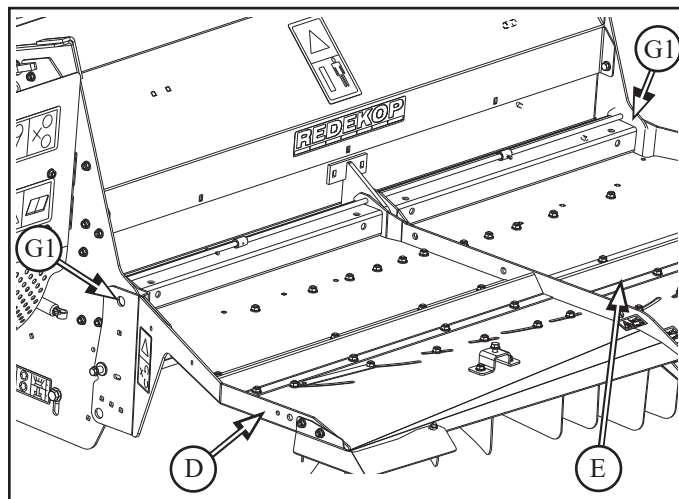
2.10.6 Slide right tailboard (E) onto tailboard pin (D1)



2.10.6 Ensure nylon bushing (F) is in chopper tailboard mount hole (G1), both sides



2.10.6 Lift tailboards (D & E) up into place on chopper
- align side holes of tailboard with mount holes (G1) on side wall of chopper

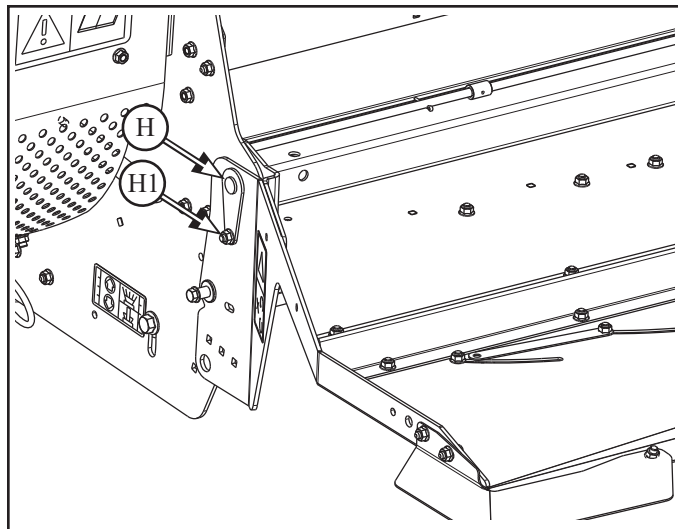


2.10.6.1 Secure tailboards into place, with

- pivot pin (**H**)
- both sides

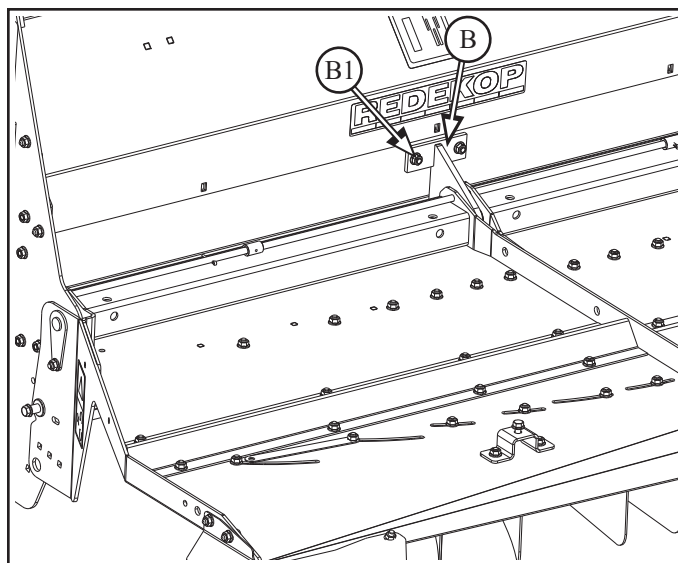
2.10.6.1 Secure pivot pin (**H**) in place, with:

- M8 x 20 round head bolt and flange nut (**H1**)
- ensure head of bolt is on inside of tailboard
- repeat for other side

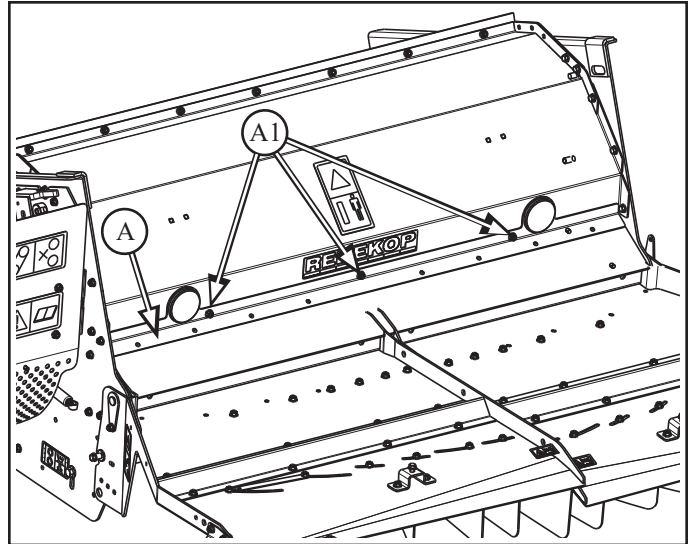


2.10.7 Fasten center tailboard mount bracket (**B**) to rear of chopper, with:

- reuse hardware (**B1**) x4



2.10.8 Reinstall top tailboard seal assembly (**A**) to
chopper, with:
- reuse hardware (**A1**) x3

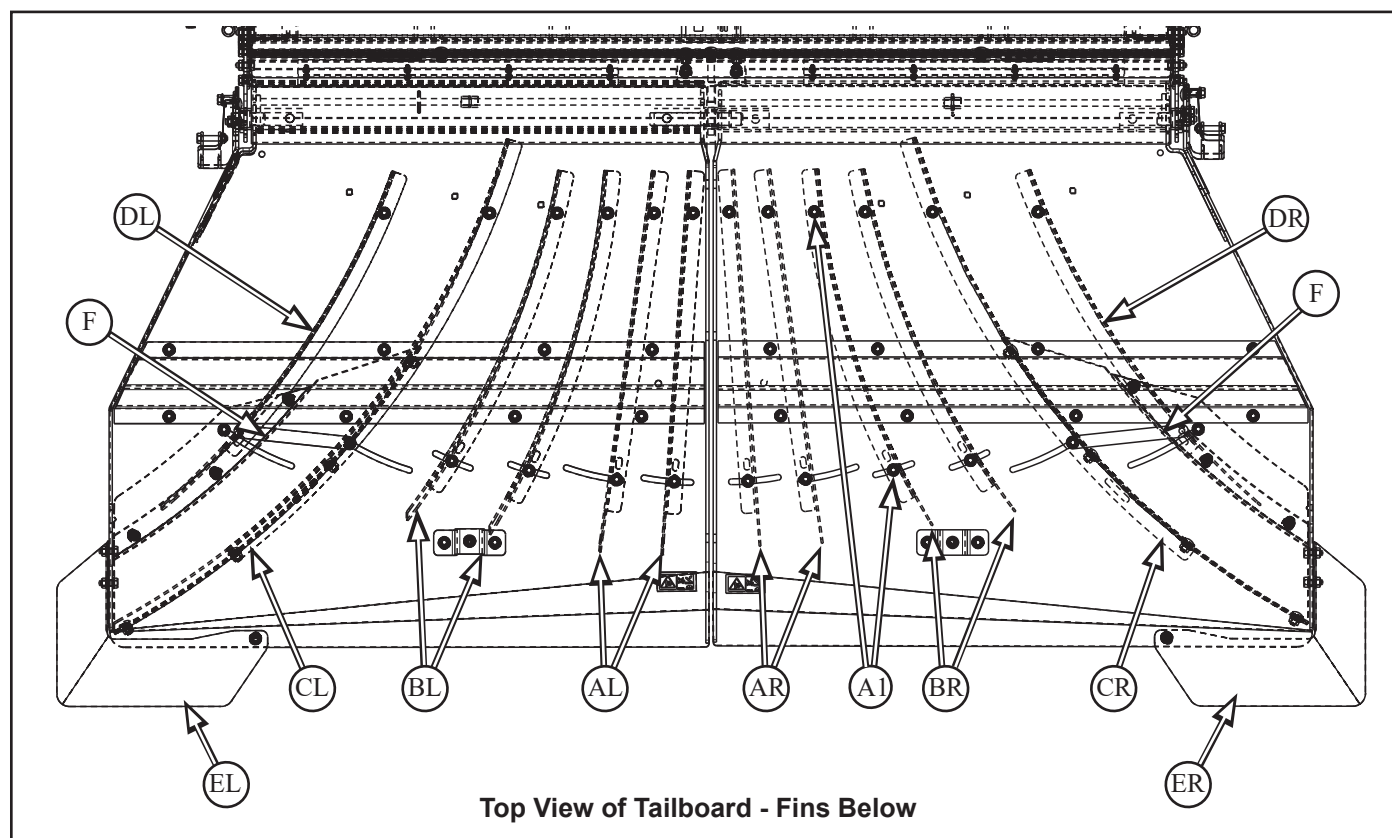
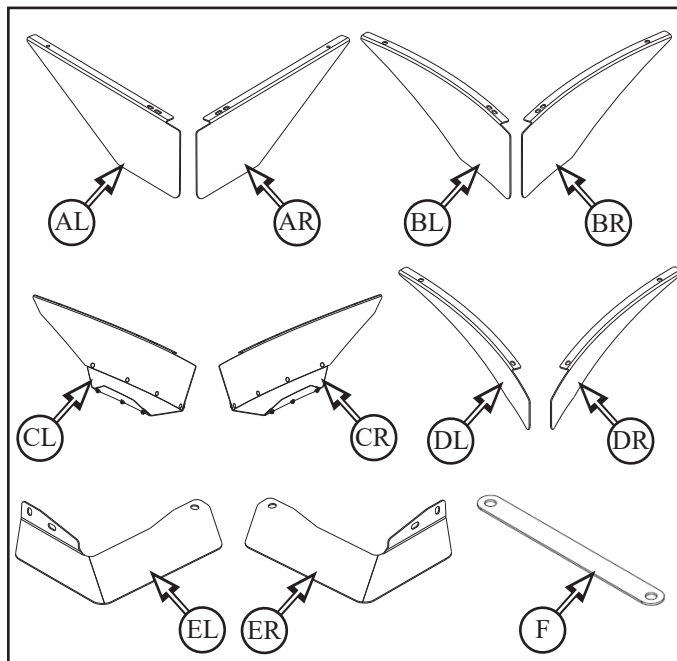


2.11 Tailboard Fin Installation

Note: For South America, Extra Wide Spread Kit is supplied - follow instructions in kit

Parts List:

(AL) CG116GL Fin Straight 22L Lt	Qty 2
(AR) CG116GR Fin Straight 22L Rt	Qty 2
(BL) CG120GL Fin Curve 22L Lt	Qty 2
(BR) CG120GR Fin Curve 22L Rt	Qty 2
(CL) CG237GAL Fin Scooped Assy Lt	Qty 1
(CR) CG237GAR Fin Scooped Assy Rt	Qty 1
(DL) CG761GL Fin Curve 19L Lt	Qty 1
(DR) CG761GR Fin Curve 19L Rt	Qty 1
(EL) CG478GL Corner Extension Lt	Qty 1
(ER) CG478GR Corner Extension Rt	Qty 1
(F) CG733G Connecting Link	Qty 2



2.11.1 Install tailboard fins as shown, with:

- M8x16 round head bolts and flange nuts (A1) x2 per fin
- ensure head of bolt is on bottom pointing up

2.11.2 Install connector link (F) to scooped fin and small curved fin (D)

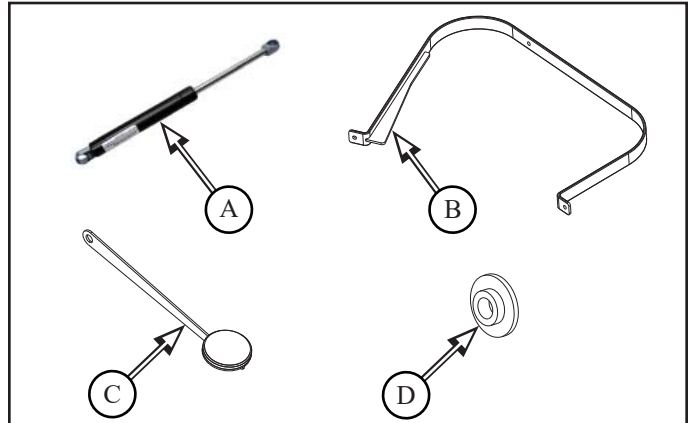
2.12 Gas Spring and Tailboard Guard Installation

Parts List:

Parts located in CD1512S Box

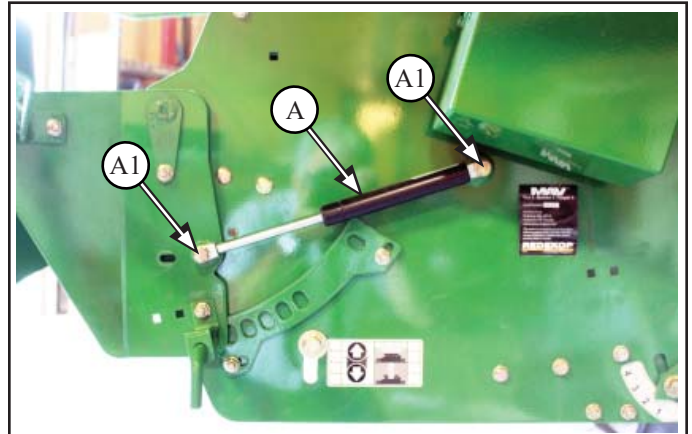
RP951A Gas Spring (A)	Qty 2
CS171G Tailboard Guard (B)	Qty 2
CS990GA Reflector Assy (C)	Qty 2
CS991Z Reflector Spacer Bushing (D)	Qty 2

SC990S Hardware Bag



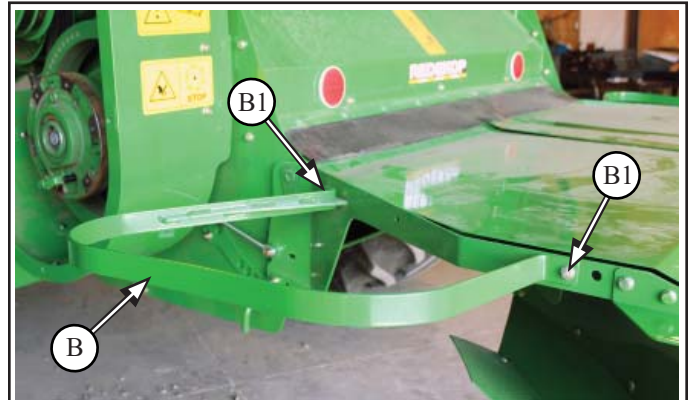
2.12.1 Install gas spring (A) onto side of chopper housing and tailboard studs with:

- M8 x 16 flange bolt (A1) x2
- located in CD680S hardware bag
- both sides



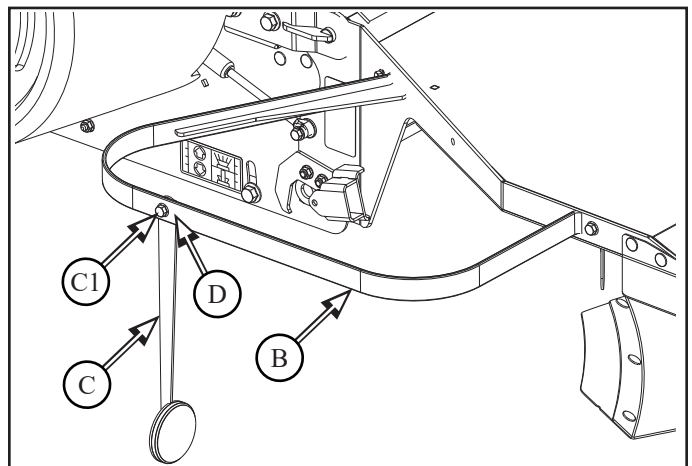
2.12.2 Install tailboard guard (B) onto side of tailboard with:

- M8 x 20 flange bolts and flange nut (B1) x2
- located in CD680S hardware bag
- ensure head of bolt is on inside of tailboard
- both sides



2.12.3 Install tailboard reflector assembly (C) to tailboard guard (B), with:

- M8 x 25 flange bolt, spacer bushing (D) and flange nut (C1)
- both sides



3 Configure Software in Display

If combine has a chopper with powercast tailboard

- change line #118 (to remove powercast tailboard)
- 2nd last digit to 0

If combine is without a chopper, has a spreader

- change line # 112 (to activate chopper)
- 4th last digit to 1

If combine has factory actuated knifebar, contact dealer technician to uninstall in software

3.1 600 Series Combine

Procedure to reconfigure software:

- Turn key switch ON. **DO NOT** start engine

3.1.1 Select main menu icon



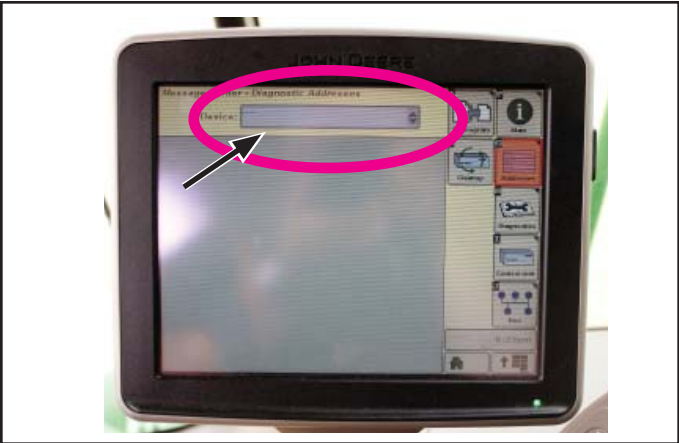
3.1.2 Select message center icon



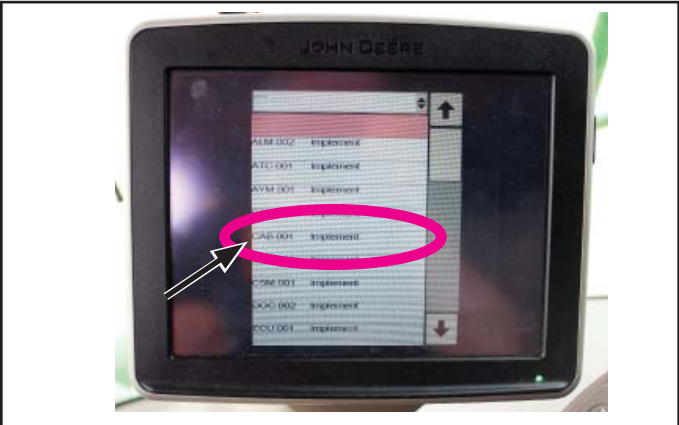
3.1.3 Select address icon



3.1.4 Select devices



3.1.5 Scroll down / select CAB.001



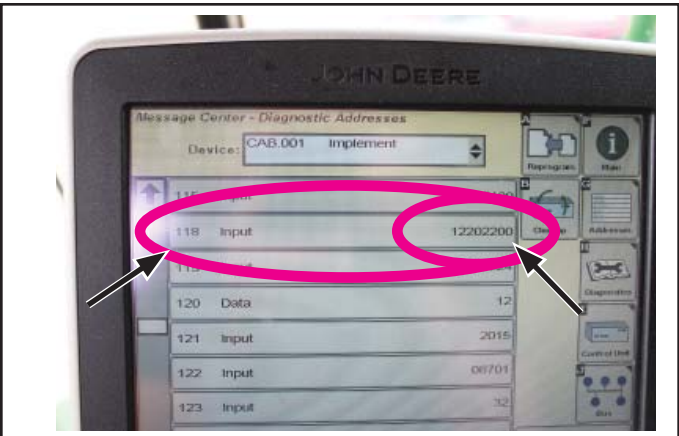
3.1.6 Scroll down to line #118

**** RECORD Number shown on display at line #118 ****
(number will disappear in edit mode)

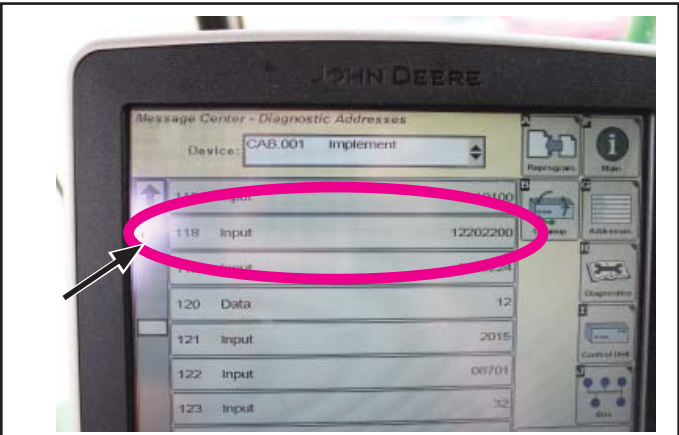
or

3.1.6 Scroll down to line #112

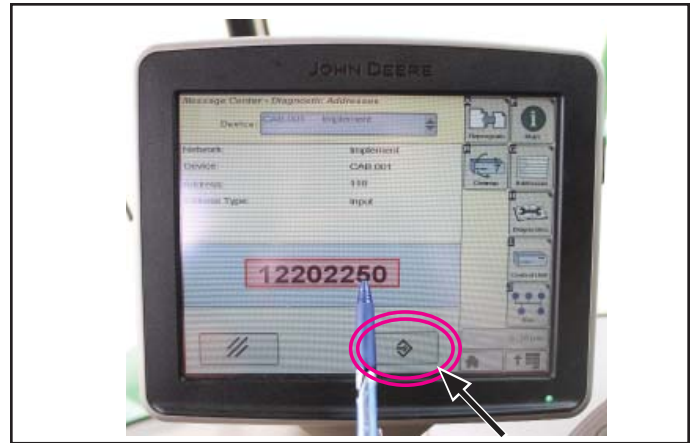
**** RECORD Number shown on display at line #112 ****
(number will disappear in edit mode)



3.1.7 After recording number, Select line #118 (or #112)



3.1.8 Select edit mode to input new number



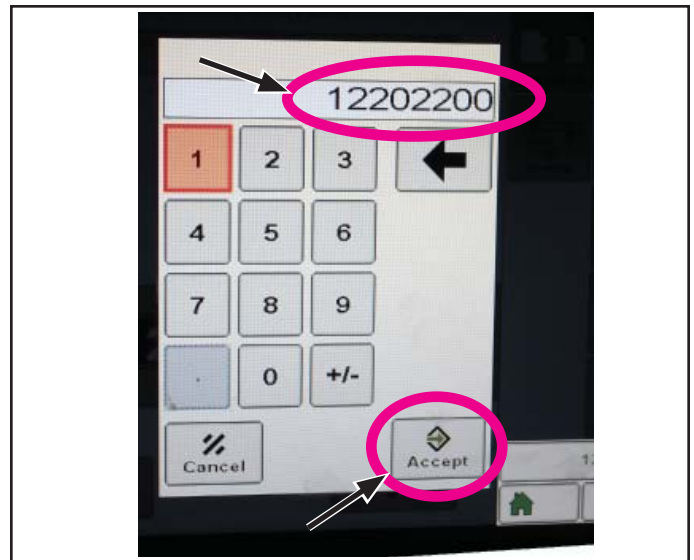
3.1.9 For line #118 - Type in complete new number with 2nd last number being a 0

or

For line #112 - Type in complete new number with 4th last number being a 1

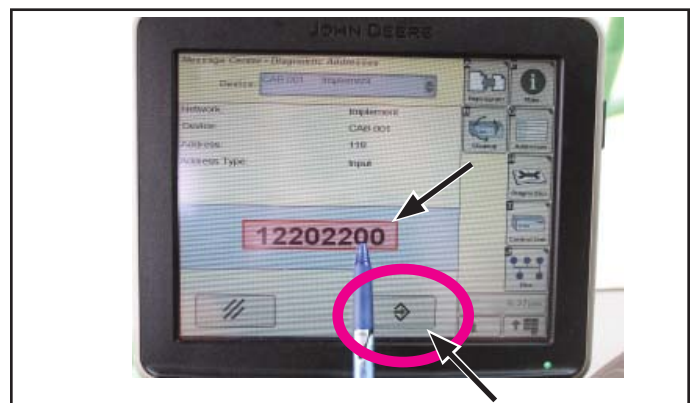
New number will be the original number recorded in previous step, but changing the 1 number as noted above

3.1.10 Select accept

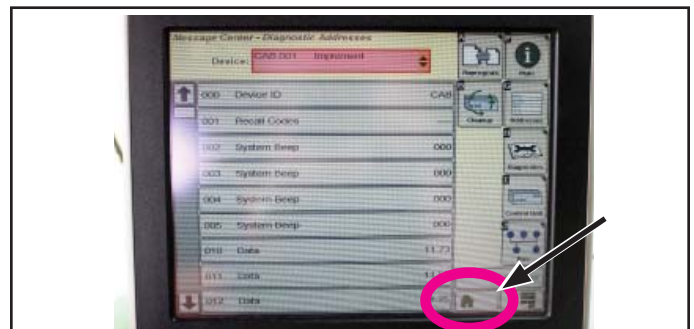


3.1.11 New number now displays

3.1.12 Select accept icon to save the change



3.1.13 Select home icon



3.2 700 Series Combine

Procedure to reconfigure software:

- Turn key switch ON. **DO NOT** start engine

3.2.1 Select menu icon

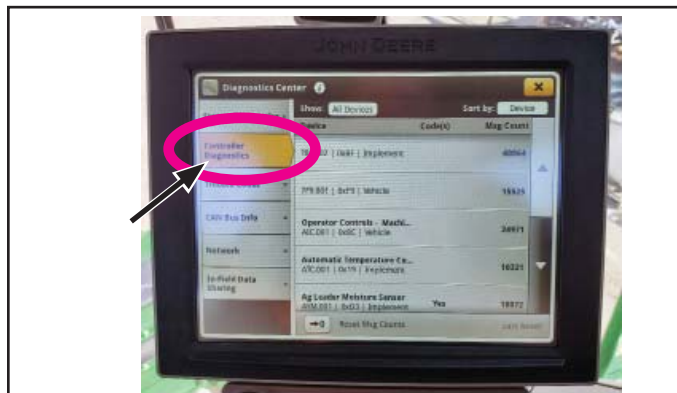


3.2.2 Select system

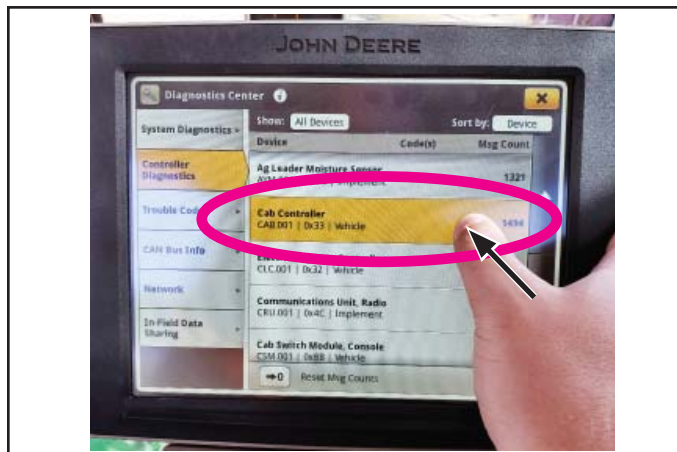
3.2.2.1 Select diagnostics center



3.2.3 Select controller diagnostics



3.2.4 Scroll down / select cab controller (CAB.001)



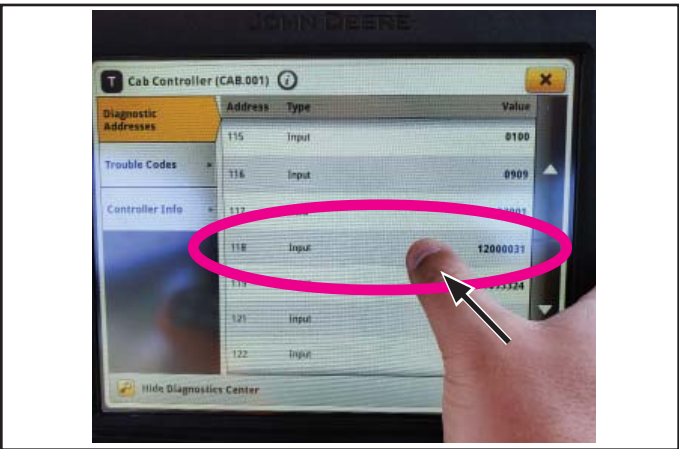
3.2.5 Scroll down to line #118 and select it

**** RECORD Number shown on display at line #118 ****

or

3.2.5 Scroll down to line #112 and select it

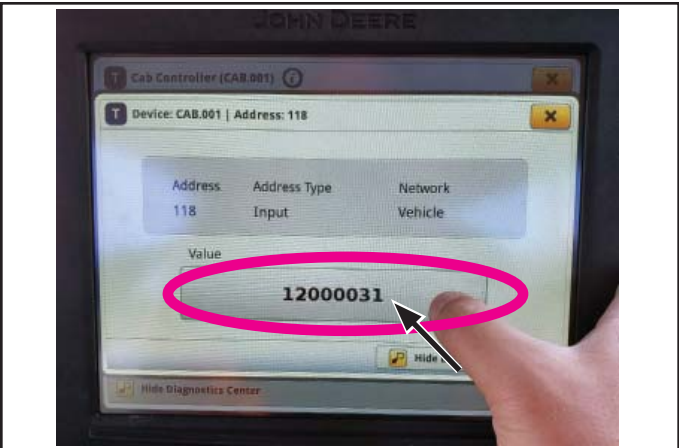
**** RECORD Number shown on display at line #112 ****



3.2.6 John Deere Tailboard Software Addresses

CAB	111	XnX XXX XX	INPUT	Chopper vane angle adjustment option	0 = Disabled 1 = Enabled
CAB	118	XXX XXX nX	INPUT	Spreader control configuration	0 = No electrical control 1 = Premium spreader control 2 = Straw spreaders. Left and right chaff spreader speed adjusted together. No wind compensation 3 = North American PowerCast and chaff spreaders. Left and right spreader speed adjusted separately for wind compensation 4 = Dual Advanced PowerCast control 5 = Single Advanced PowerCast control 6 = Maxi spreader Rekord independent left/right control 7 = Chaff spreader with speed sensor installed 8 = Both maxi spreader and chaff spreader with speed sensor installed

3.2.7 Select value to input new number



3.2.8 For line #118 - change 2nd last number to a 0

or

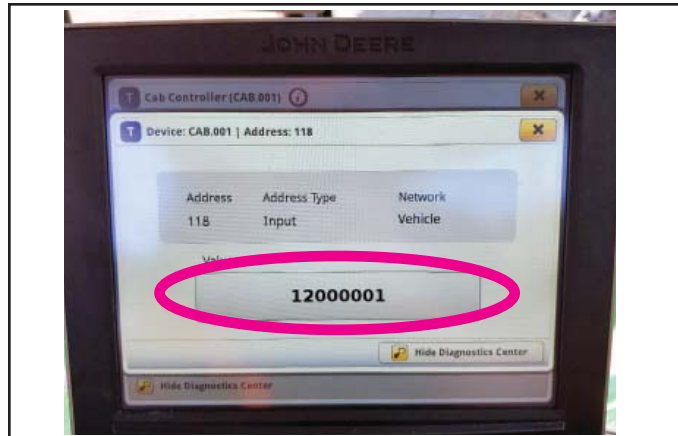
For line #112 - change 4th last number to a 1

New number will be the original number recorded in previous step, but changing the number as noted above

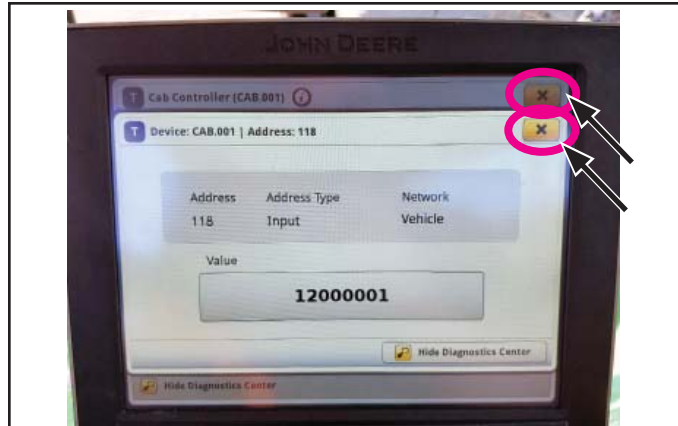
3.2.9 Select OK



3.2.10 New number now displays



3.2.11 Select the X in upper right corner to close all open windows



3.2.12 Select home icon

Access and Delete any Diagnostic Trouble Codes

Diagnostic trouble codes may be generated while programming is in progress. Access the diagnostic trouble codes (if any) and delete.

If, after programming, diagnostic trouble codes appear that indicate that a function has not been calibrated, the relevant calibration must be performed.

For instructions on calibration, see relevant John Deere Diagnostic Technical Manual, Section 245

Check Function

Connect battery.

Check new function.

IMPORTANT: Once all the component assemblies have been installed, do an operational check.

MAV JD S Series

4 Final Installation Checklist



4.1 All tools removed from tires and inside of combine



4.2 All tools removed from straw chopper and tailboard



4.3 All misc hardware removed from inside of combine, tires and straw chopper



4.4 Check to ensure all mounting hardware is in place and tight for each of the following:
- check back to manual for torque specifications

4.5 ☐ Rotate Chopper rotor by hand to ensure it rotates freely and blade clearances

	Installed/Modified	Torqued	
4.6 Highspeed Sheave on OEM shifter (outer sheave)	☐	☐	
4.6.1 4C Sheave is on jackshaft (if applicable - Section 3)	☐	☐	
4.6.2 OEM Deere 2-speed shifter mount bolt		☐	
4.6.3 Chopper drive belt	☐	☐ Tensioned	☐ Aligned
4.6.4 Jackshaft drive belt	☐	☐ Tensioned	☐ Aligned
4.6.5 Beater belt	☐	☐ Tensioned	☐ Aligned
4.7 ☐ Knifebar moves freely	4.15 ☐ Harnesses secured		
4.8 ☐ Chopper mount side rails	4.15.1 ☐ Harnesses routed to allow for movement		
4.9 ☐ Chopper actuators have full range of motion	4.15.2 ☐ Harnesses installed with no pinch point and avoids moving parts and abrasive edges		
4.10 ☐ Chopper speed sensor target is installed on chopper rotor shaft	4.16 ☐ Hydraulic fittings and lines - all tight with no leaks		
4.11 ☐ Chopper speed sensor is installed - Chopper speed sensor light is on when target is in reading position	4.17 ☐ Cab monitor software is reconfigured		
4.12 ☐ Chopper speed sensor shield is installed	4.18 ☐ Redekop page added to run screens (if actuated tailboard option installed)		
4.13 ☐ Drive shields installed	4.19 ☐ Ran in low speed upon startup and listened for clearance problems		
4.14 ☐ Tailboard rotates freely up and down	4.20 ☐ Run in high speed @ operative engine speed		
4.14.1 ☐ Tailboard gas shocks installed			
4.14.2 ☐ Tailboard actuators installed (if equipped)			
4.14.3 ☐ Tailboard actuators calibrated (if equipped)			

Completed By: _____

Date: _____



CAUTION

Check all fasteners to ensure they have been properly tightened

Torque Table

Nominal Size	Class 8.8	Class 10.9
	Nm / (ft-lbs)	Nm / (ft-lbs)
M8 - flanged	27 / (20)	39 / (29)
- non flanged	25 / (18)	35 / (26)
M10 - flanged	54 / (40)	57 / (42)
- non flanged	49 / (36)	70 / (51)
M12 - flanged	93 / (69)	134 / (98)
- non flanged	85 / (63)	121 / (90)



CAUTION

Wear Hearing Protection during operation



CAUTION

When starting chopper, be sure all people are clear of the rear of the combine



Start threshing module in low speed and listen for clearance problems. If a knocking noise is heard, stop the machine immediately! Fix problem and repeat procedure. Progress to full power when everything is running smoothly at lower speeds.

REDEKOP MANUFACTURING

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