

REDEKOP™

COMPLETE MAV UPGRADE KIT

JOHN DEERE S SERIES

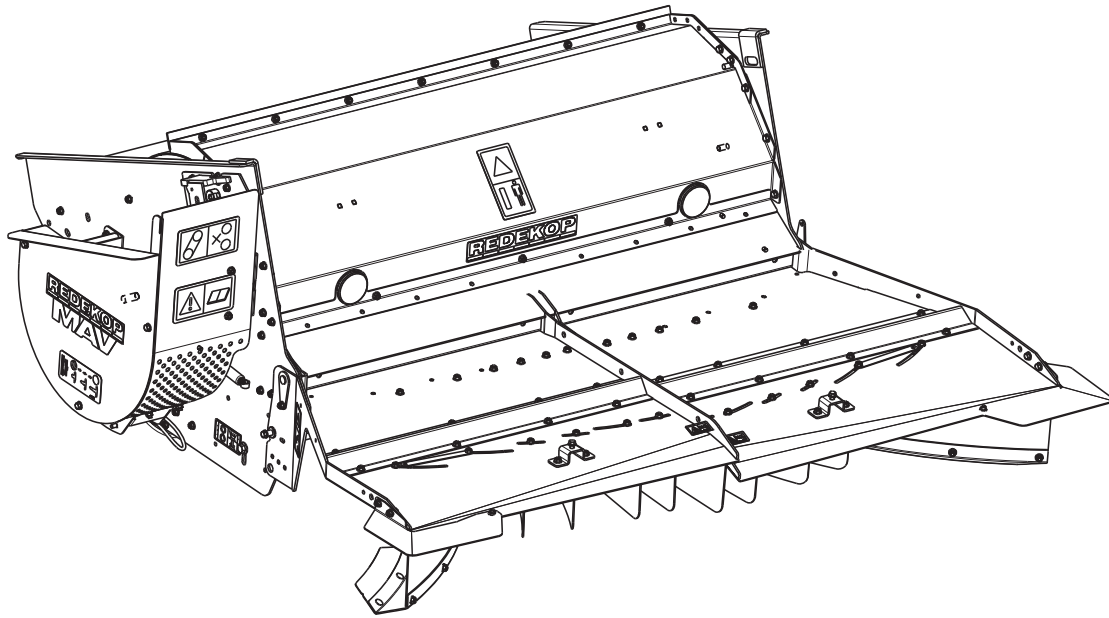
(S700 & LATE S600 MODEL)

WITHOUT OEM CHOPPER / WITH SPREADER

INSTALLATION MANUAL

PRODUCT NUMBER: 340-122

CD0303-03_R1



Housing Upgrade MAV JD S Series (S700 & late S600 Model)

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.

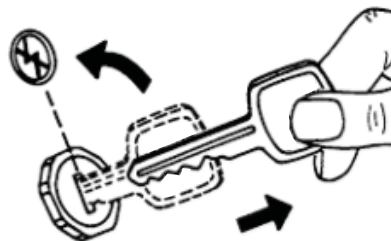


0.7 Remove Key from Ignition

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.

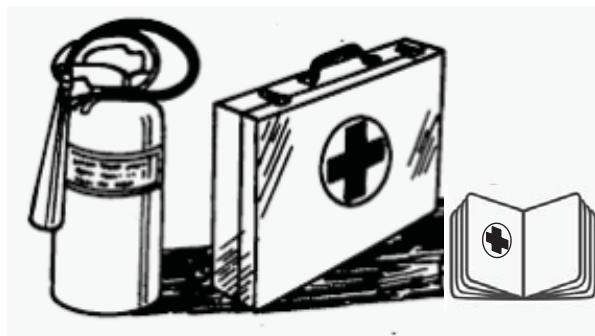


0.17 Prepare for Emergencies

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.



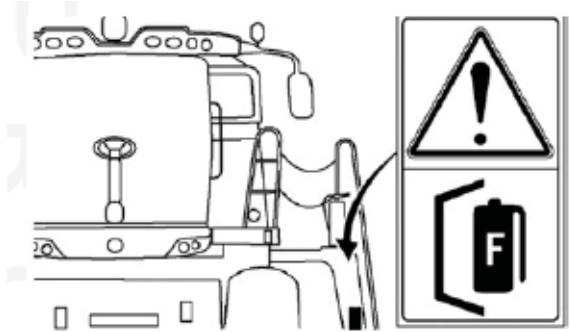
0.18 Fire Extinguisher

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

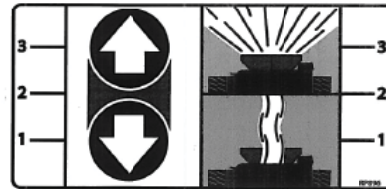


Pinch Point Hazard
84394351



0.22 Information Decals

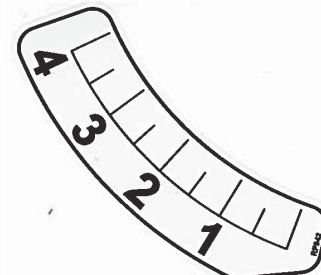
Windrow Floor Adjustment
Wide Spread / No Spread
RP896



Redekop Straw Chopper Serial Number Plate
RP246



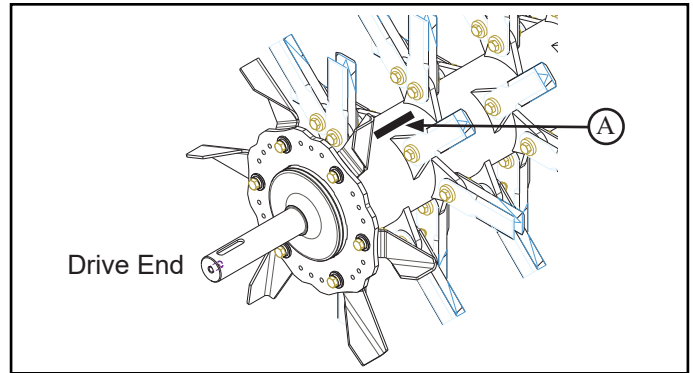
Knifebar Adjustment
RP942



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

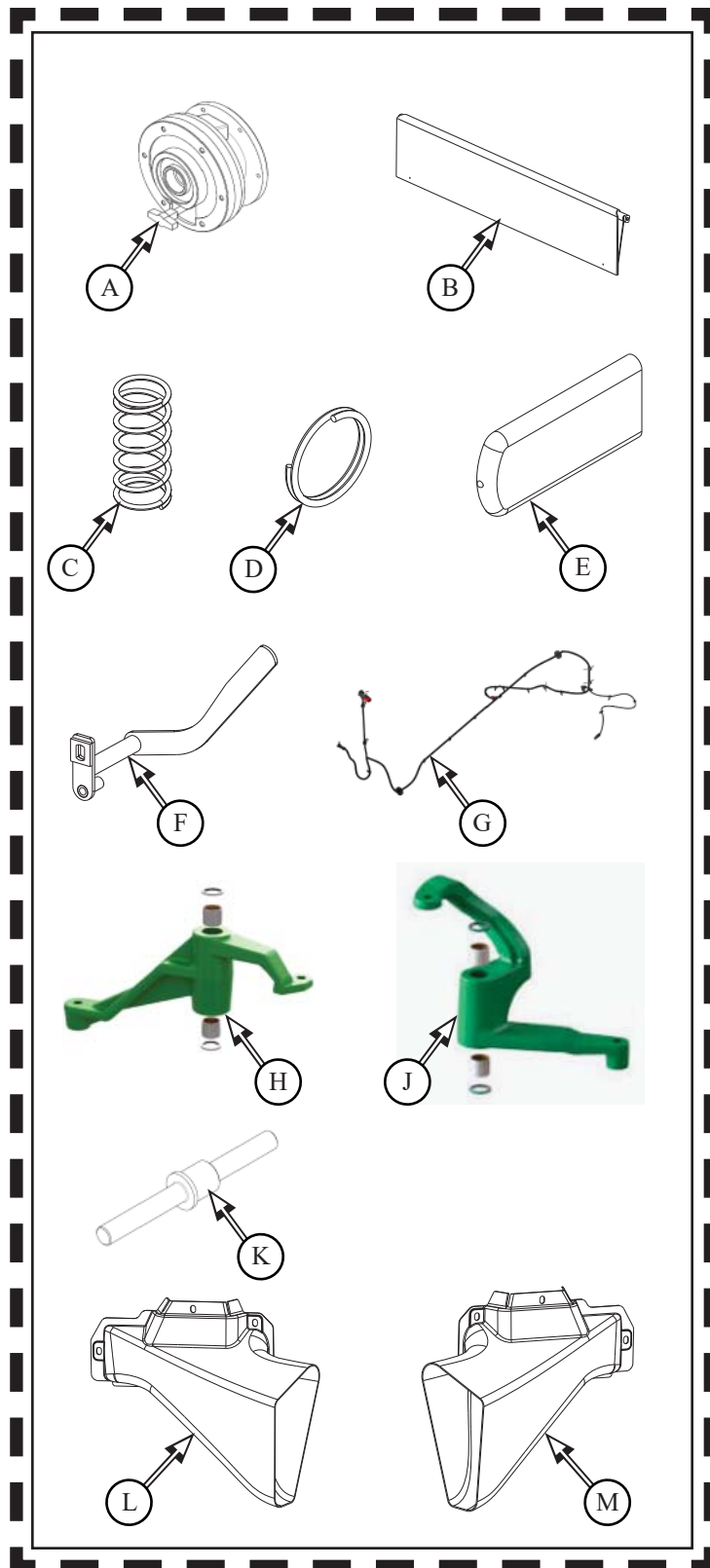


1 Parts to Order from John Deere

1.1 OEM Parts - for S700 & late S600 Combines

Parts List:

DE30513	Shifter (A)	Qty 1
AXE21425	Cover Deflector Crop Diverter (B)	Qty 1
R28783	Spring Compression (C)	Qty 1
H174818	Ring Pin Stop (D)	Qty 1
W25634	Grip Handle (E)	Qty 1
AXE26456	Handle Level Crop Diverter (F)	Qty 1
AXE50291	Tailboard Wiring Harness (G)	Qty 1
AXE23240	Arm (H)	Qty 1
AXE23567	Arm (J)	Qty 1
HXE94548	Shaft Chopper Idler Pivot FC (K)	Qty 1
HXE83981	Air Chute Lt (L)	Qty 1
HXE83982	Air Chute Rt (M)	Qty 1



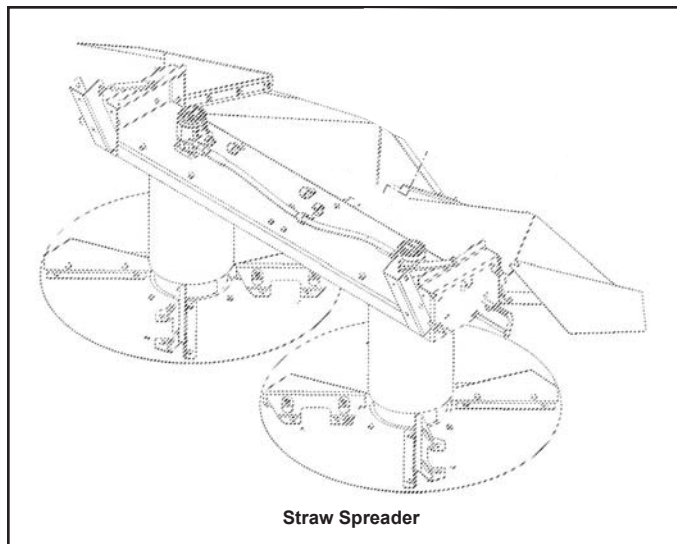
2 Removal of S Series Factory Straw Spreader and Components



This kit is designed to replace the factory straw spreading system - Rear portions of straw deflector hood are different between spreader and chopper model machines. Consult with your local dealer for model specific requirements for conversion to chopper from spreader.

2.1 Straw Spreader Removal

- 2.1.1** Remove Hydraulic straw spreader
- not to be reused

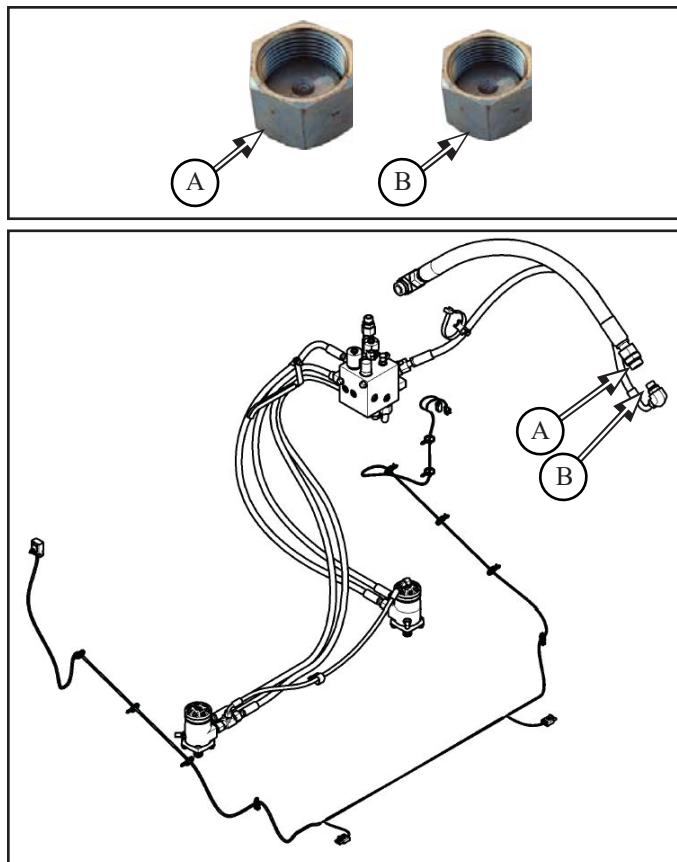


2.2 Spreader Hydraulic Line Removal

Parts List:

- H14-20F Fit Hyd Cap 20 FORS (A) Qty 1
H14-16F Fit Hyd Cap 16 FORS (B) Qty 1
- located in CD672S hardware bag

- 2.2.1** Drain oil from resevoir (approx. 15 gals)
2.2.2 Disconnect hydraulic lines from resevoir and line
2.2.3 Remove hydraulic pump
- not to be reused
2.2.4 Install hydraulic cap (A) onto resevoir
2.2.5 Install hydraulic cap (B) onto pressure line



3 S Series Complete MAV Chopper Adaptor Kit Installation

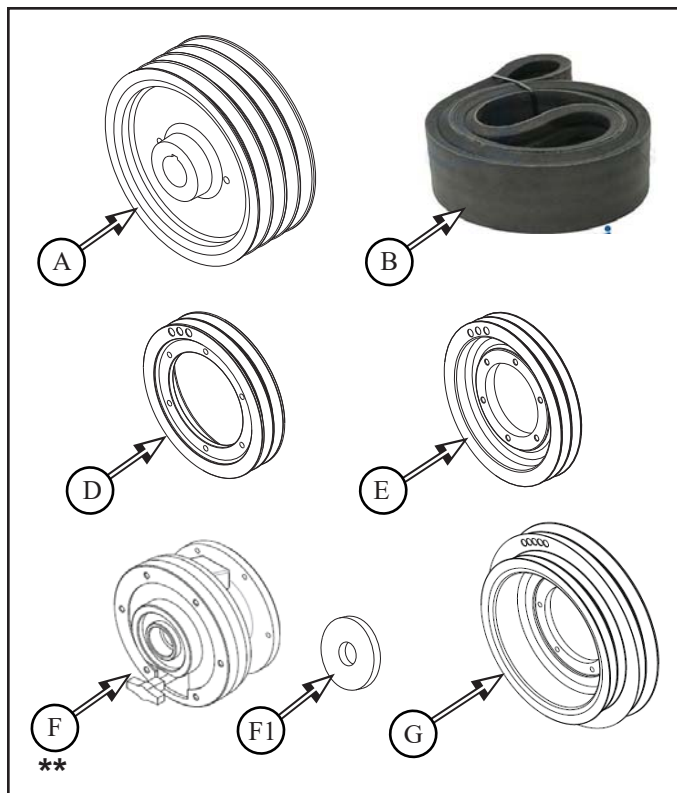
3.1 Drive Installation - S700 & early S600 combines

Parts List:

RP967	Sheave 4HC S Series Upper Drv (A)	Qty 1
BE4C127K	V Belt 4C 127L Kevlar (B)	Qty 1
RP968	Sheave 2HC HS Chopper Drive (D)	Qty 1
RP969	Sheave 2HC - JDS Low Speed (E)	Qty 1

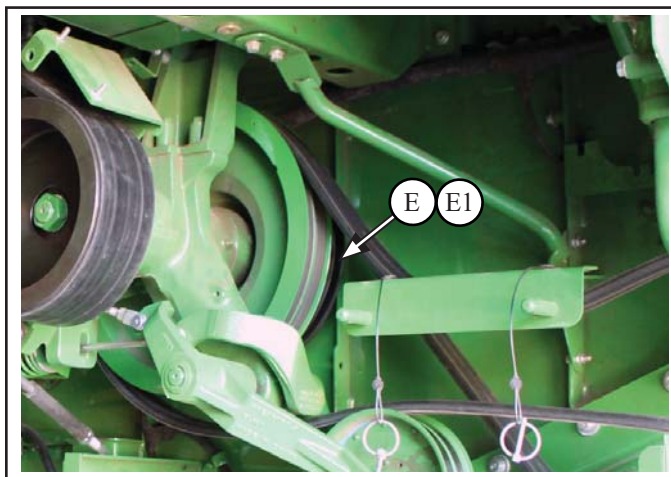
** To be ordered from John Deere **

DE30513	Shifter (F)	Qty 1
CD667Z	Washer .656 id x 2 od x .25 tk (F1)	Qty 1
	- located in CD1270S hardware bag	
RP988	Sheave SC JD S-Series Driver (G)	Qty 1



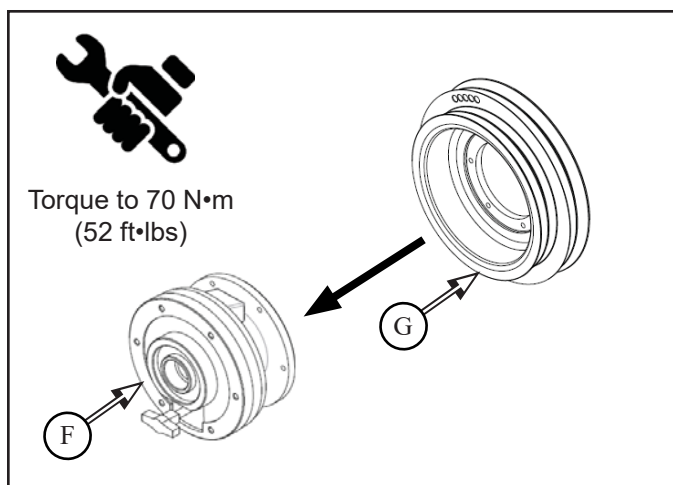
3.1.1 Install new RP969 2 groove sheave (E) onto back of existing sheave on jackshaft, with:

- M10 x 35 flange bolt (E1) x6
- located in CD1272S hardware bag



3.1.2 Attach slow drive sheave RP988 (G) to back of Deere shifter (F), with:

- M10 x 35 flange bolt (G1) x6
- located in CD1273S hardware bag
- Torque to 70 N-m (52 ft-lb) in a criss-cross pattern



3.1.3 Remove existing 3 groove Deere sheave and drive belt from upper jackshaft (**K**)
- not to be reused

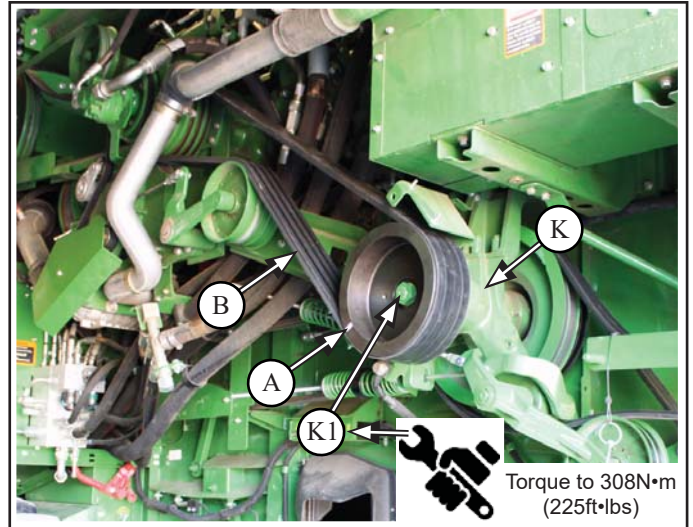
3.1.4 Install new RP967 4 groove sheave (**A**) onto jackshaft (**K**) with:
- reuse existing nut and washer hardware (**K1**)



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

3.1.5 Install new 4 groove V drive belt (**B**)

Note: on S670 and S660 combines, the OEM upper drive is a 3 groove sheave - cut one groove off of the 4 groove belt for these combines

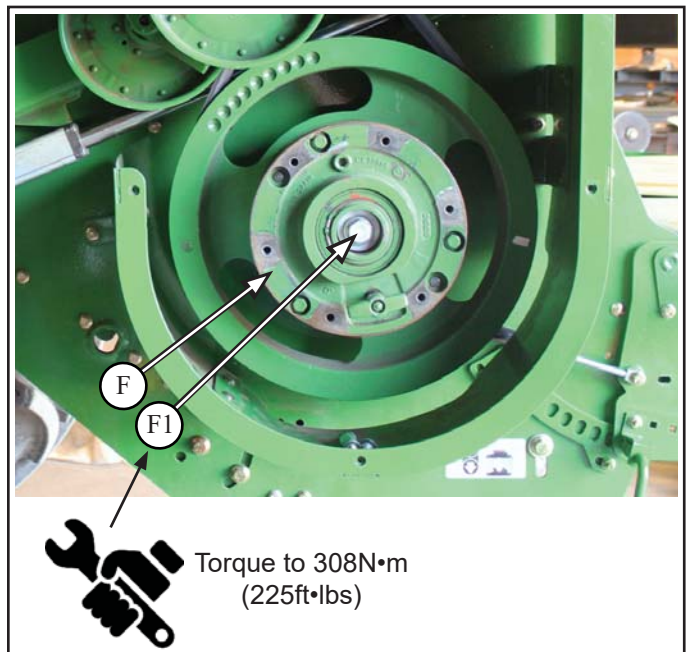


3.1.6 Install Deere shifter (**F**) onto chopper drive shaft, with:

- M16 x 60 flange bolt and washer (**F1**)
- located in CD1270S hardware bag

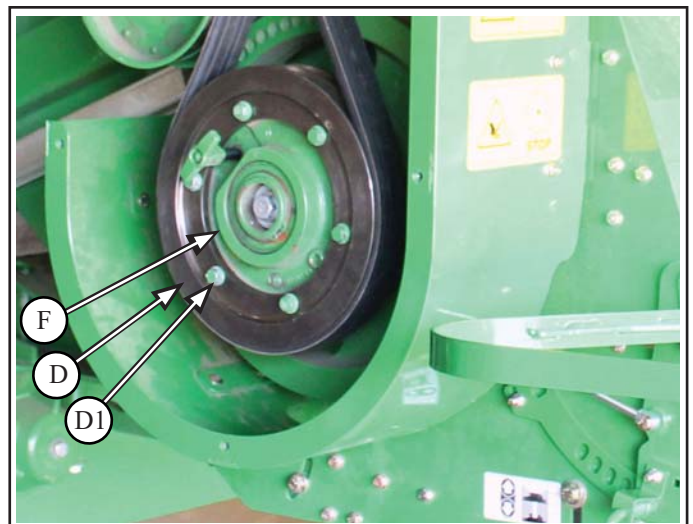


Torque Bolt (**F1**) to 308 N-m (225 ft-lb)



3.1.7 Install new RP968 sheave (**D**) to outside of Deere shifter (**F**), with:

- M10 x 35 flange bolt (**D1**) x6
- located in CD1294S hardware bag



3.2 Wiring Harness Installation

Parts List:

AXE18407 Manual tailboard wiring harness (H) Qty 1
(see note below for customer to order)
AH159283 Toggle/Rocker switch (J) Qty 1



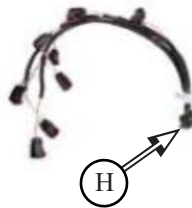
**CUSTOMER TO ORDER FROM JOHN DEERE:

Tailboard Harness:

AXE18407 Strawchopper Harness, Manual Vane Tailboard, Round Plug to main harness Qty 1 or **AXE50291** Strawchopper Harness, Manual Vane Tailboard, Square Plug to main harness Qty 1

required for the following:

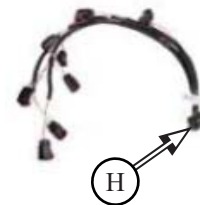
S660 BSN 765171
S670 BSN 765252
S680 BSN 766006
S685
S690 BSN 765249



required for the following:

S660 ASN 785001
S670 ASN 785001
S680 ASN 785001
S690 ASN 785001

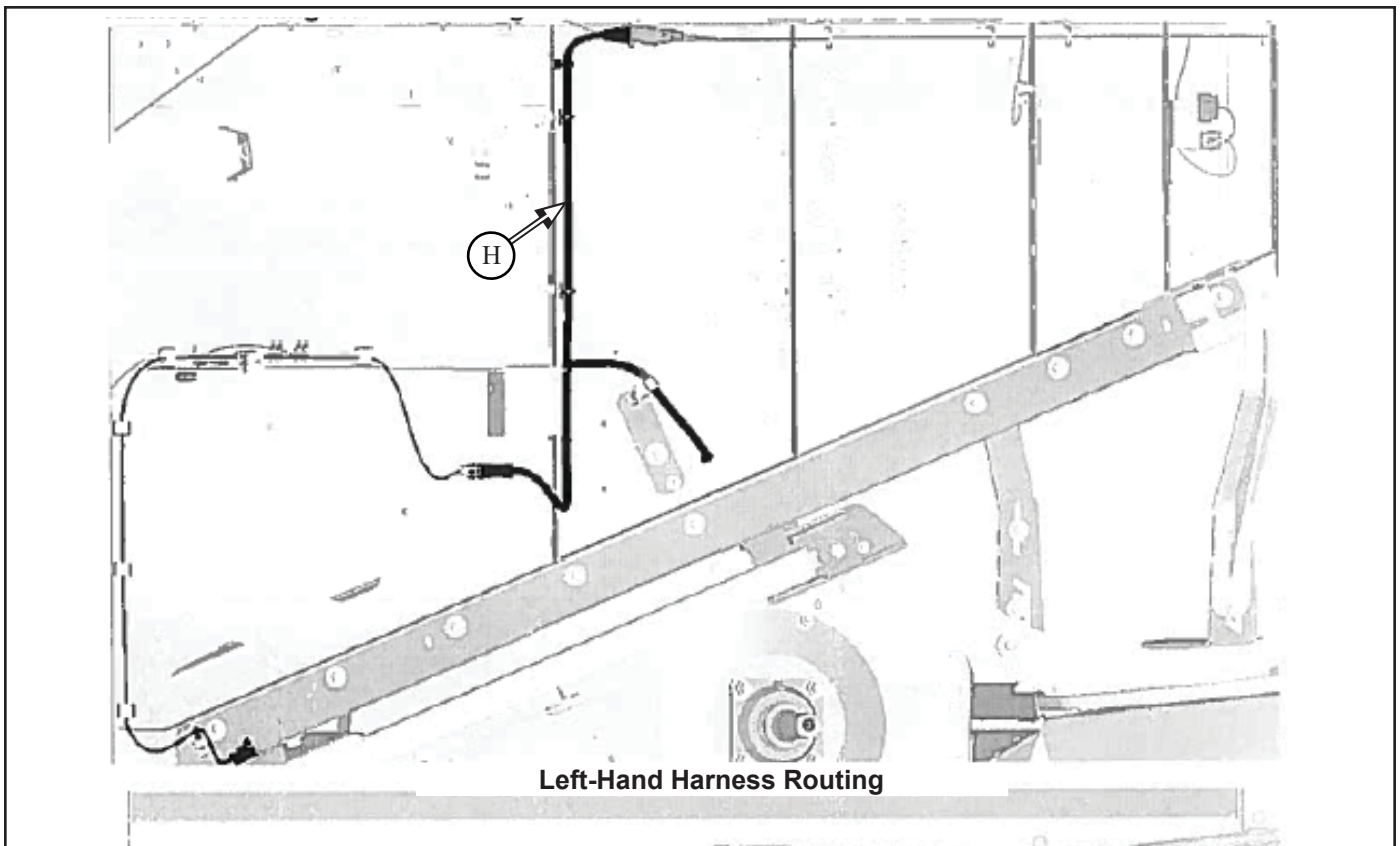
ALL S700 series



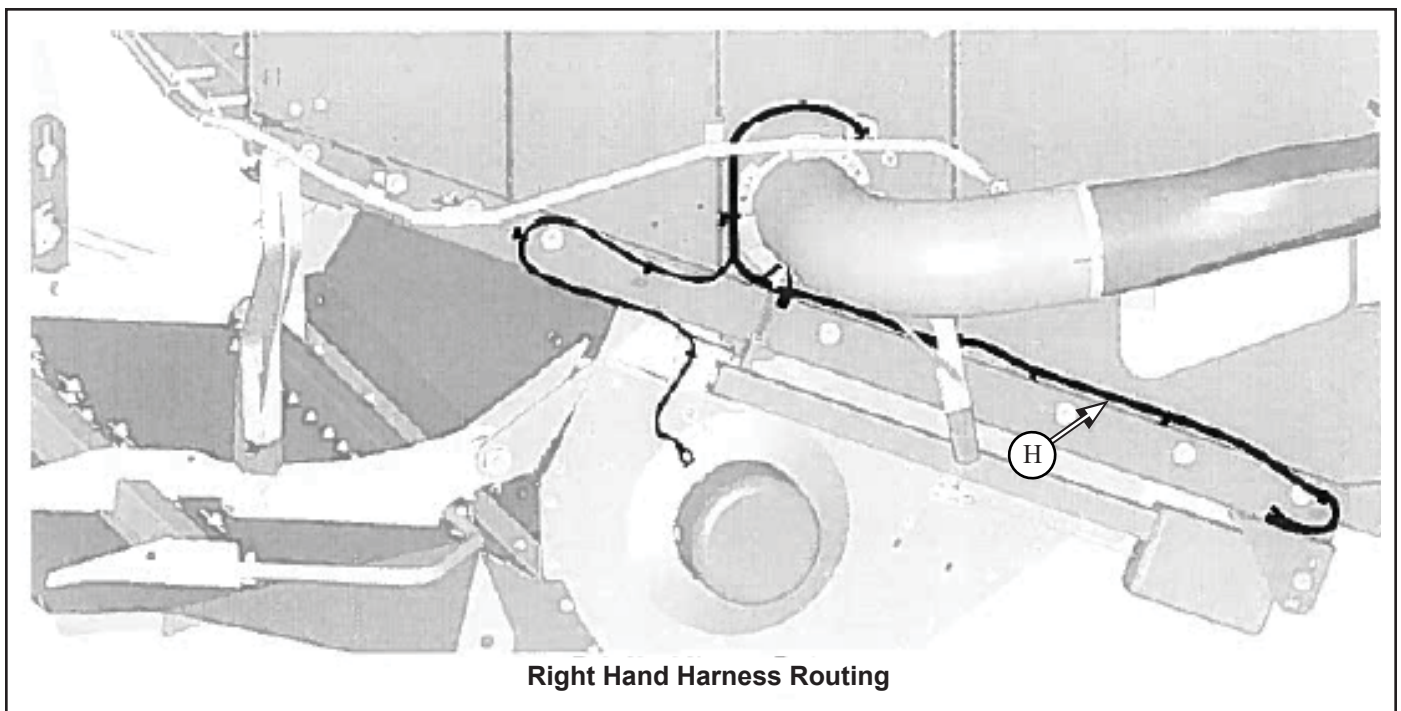
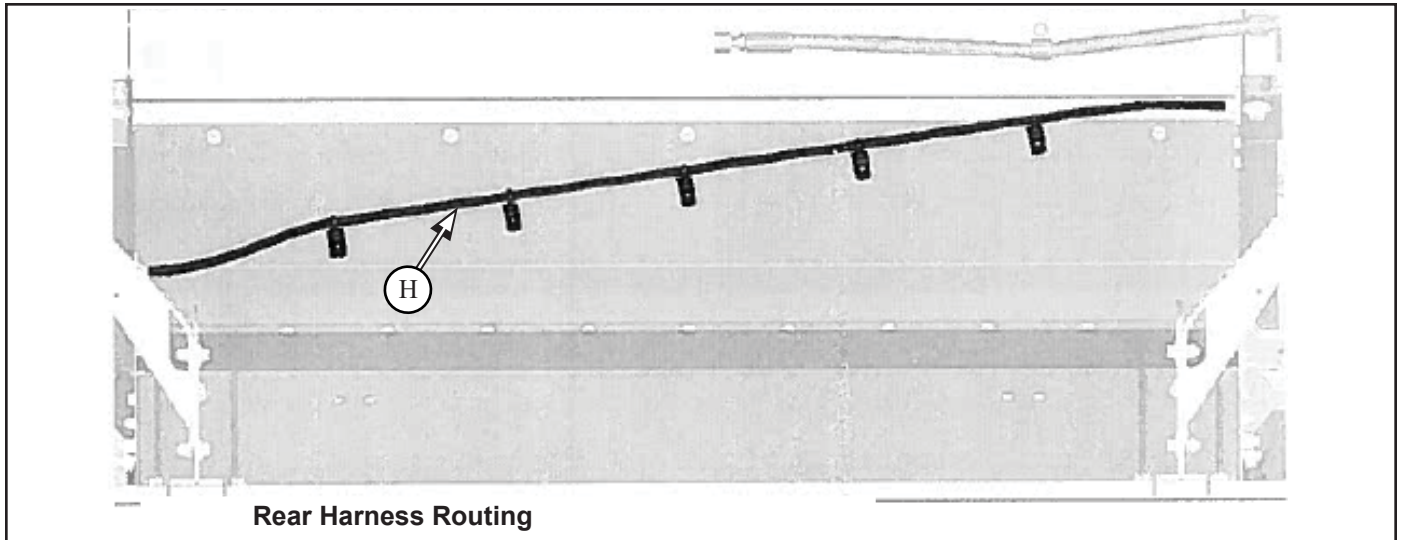
3.2.1 Install wiring harness (H)

- ensure harness does not touch the fuel line or interfere with any moving parts

Harness Routing Reference Diagrams

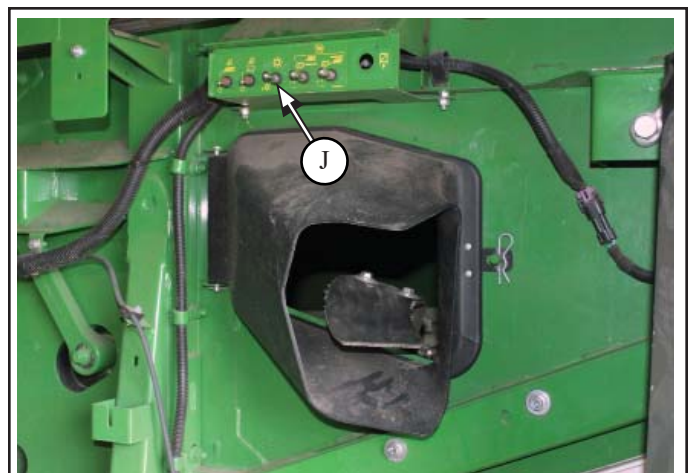


Left-Hand Harness Routing



3.2.2 Install chopper toggle/rocker switch (J) to control panel on left side of machine and connect to wiring harness (H)
 - allows operator to raise or lower chopper to various positions

3.2.3 Secure harness in place, with:zip ties as required
 - located in CD1276S hardware bag
 - ensure harness does not touch the fuel line or interfere with any moving parts



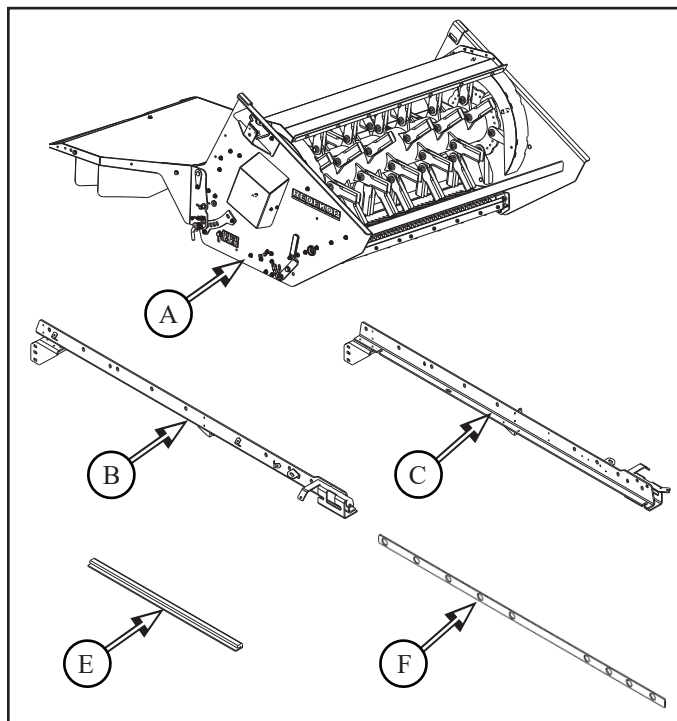
3.3 S Series MAV Chopper Housing Installation

Parts List:

CD621GA	S Series MAV Chopper Housing (A)	Qty 1
CD637GL	Chopper Mt Side Rail Lt (B)	Qty 1
CD637GR	Chopper Mt Side Rail Rt (C)	Qty 1
CD636-01	Slider JD S Series (E)	Qty 2
CD639G	Chopper Spacer Plate (F)	Qty 2

CD637S Hardware Bag

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



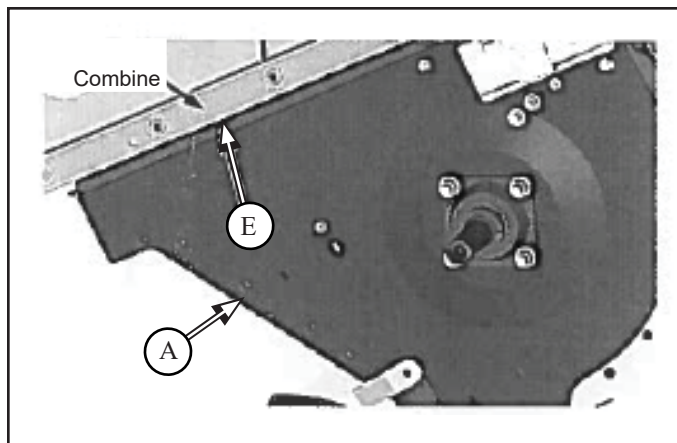
3.3.1 Install plastic slider (E) onto chopper lip (A1)

- both sides
- thicker portion to be on top of lip



3.3.2 Lift chopper (A) up to bottom side of combine.

3.3.2.1 Raise chopper until the sliders (E) are flush with underside of combine sidesheets - both sides



3.3.3 Install chopper mount side rails (**B & C**) under the plastic guide (**E**) and channel of combine bottom panel. Ensure the spacer plate (**F**) is between side rail and combine channel (tape into place).



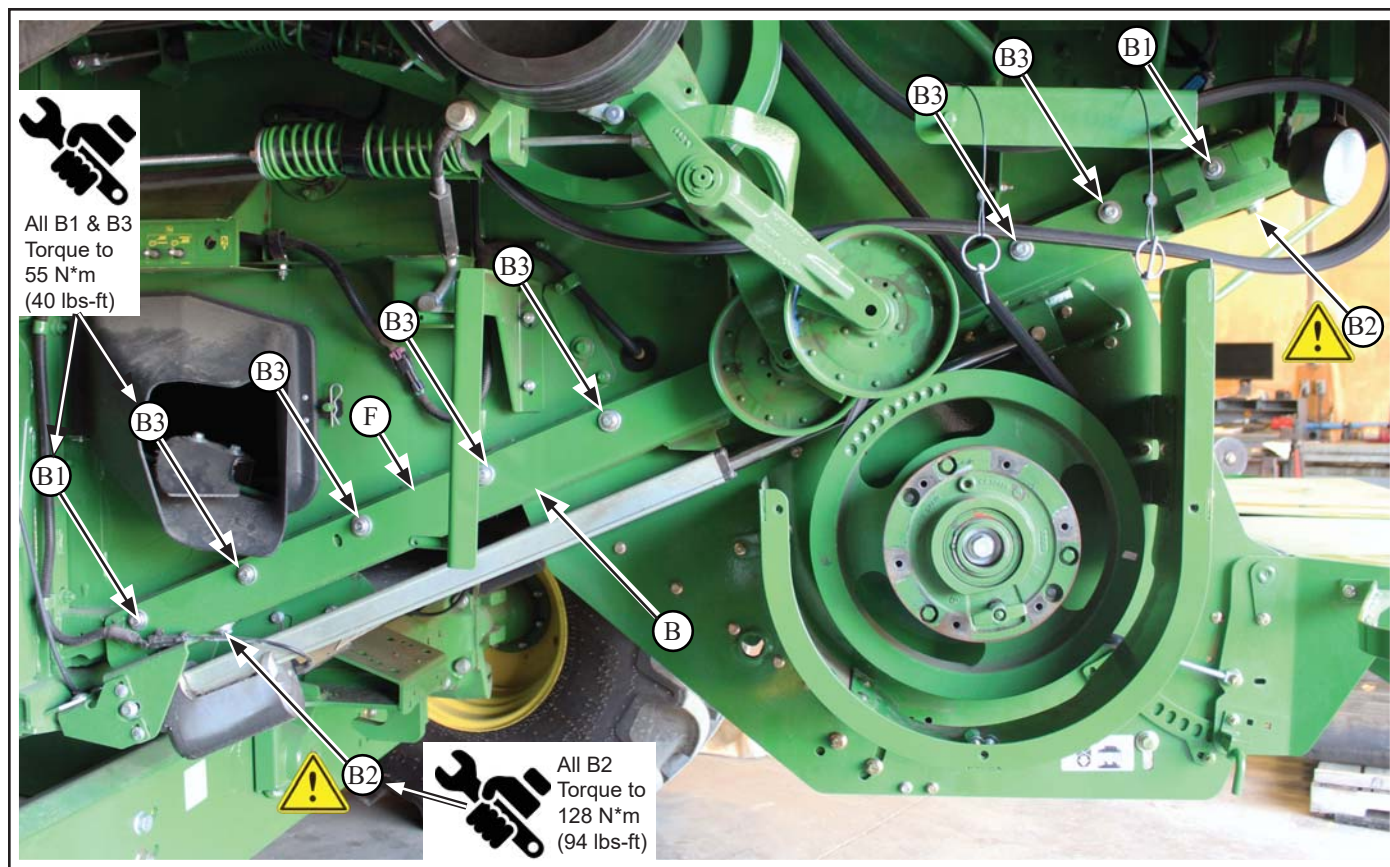
Important to install side rail hardware as directed below
- bolts **B2** can be slightly threaded in prior to installing rail

Fasten with hardware in the following order:

- M10 x 25 flange bolt and flat washer (**B1**) hand tighten
- M12 x 30 flange bolt and flat washer (**B2**) tighten to specification - ensure rail is pulled tight against frame
- M10 x 25 flange bolt and flat washer (**B3**) hand tighten
 - located in CD637S hardware bag
- 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)



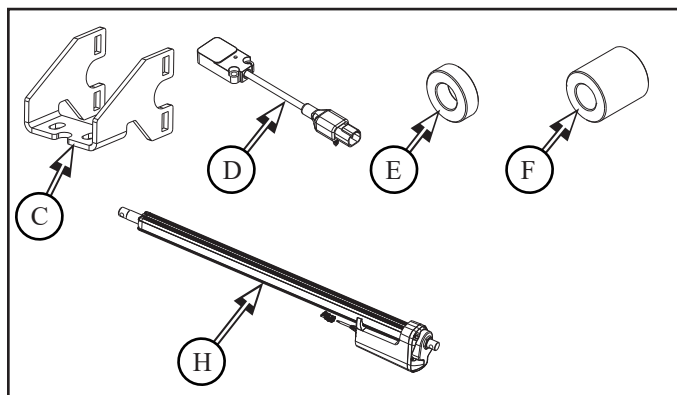
Repeat on other side



3.4 Actuator installation

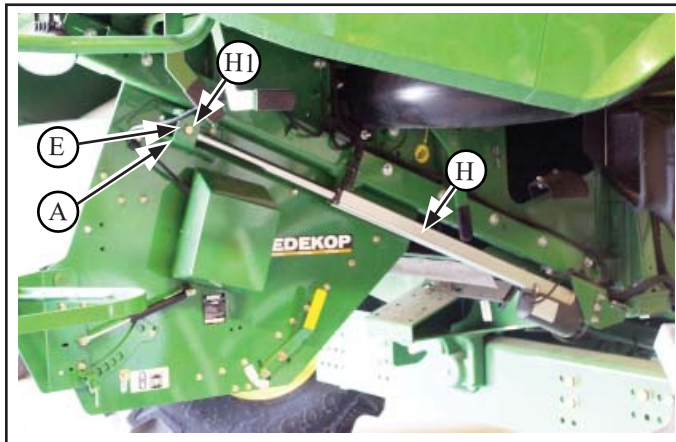
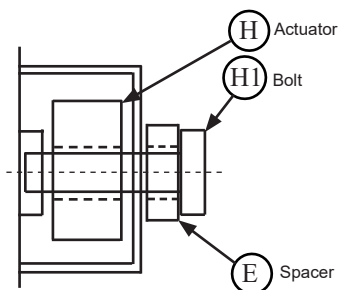
Parts List:

CD638G Bracket Rail Mt S Series (C)	Qty 2
AH221249 Speed/Proximity Sensor (D)	Qty 1
CD664Z Spacer .5 IDx1.0 ODx.313 L (E)	Qty 1
CD651Z Spacer .5 IDx1 ODx1.1L (F)	Qty 4
RP972A Actuator Linear 12V 800mm Stroke (H)	Qty 2



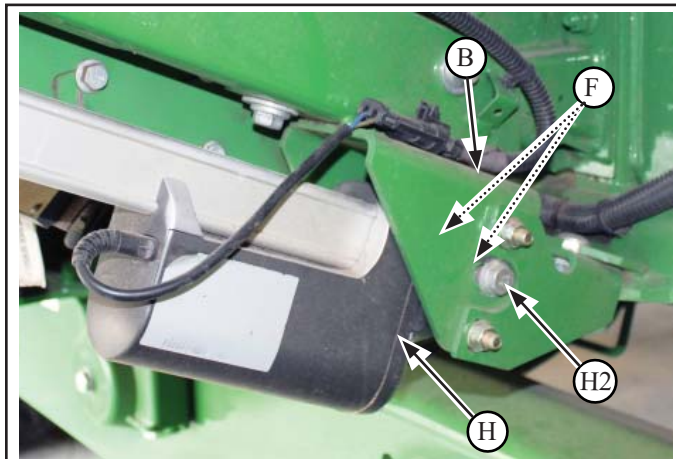
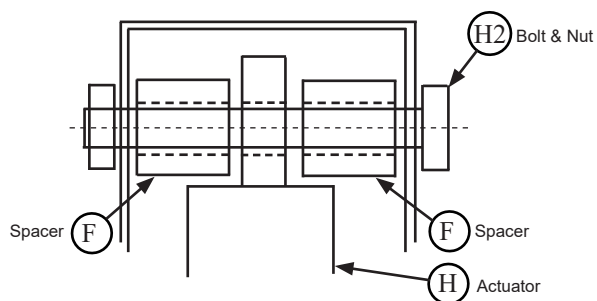
3.4.1 Attach head of linear actuator (H) to chopper housing (A) with:

- M12 x 60 flange bolt (H1)
 - located in CD1275S hardware bag
- CD664Z spacer (E)
 - located in CD1275S hardware bag
- both sides



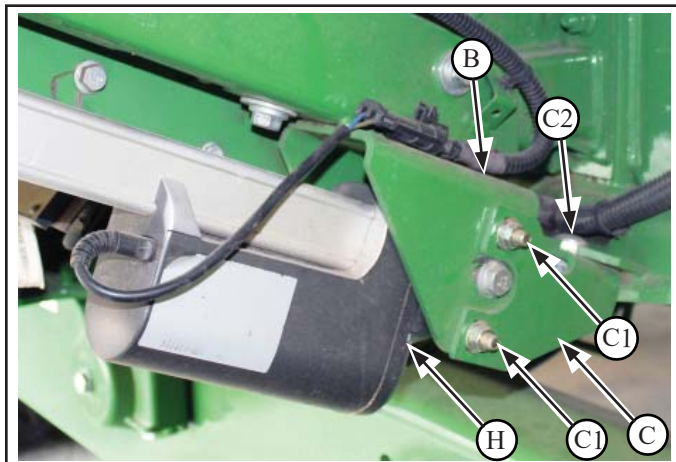
3.4.2 Attach bottom of linear actuator (H) to middle hole of side rail bracket (B) with:

- M12 x 120 flange bolt and lock nut (H2)
- CD651Z spacer (F) x2
 - located in CD1275S hardware bag
- do not tighten locknut until it contacts the rail, make sure bolt is able to slide freely within the rail slot
- both sides



3.4.3 Install rail mount bracket (C) to slide rail bracket (B) with existing hardware:

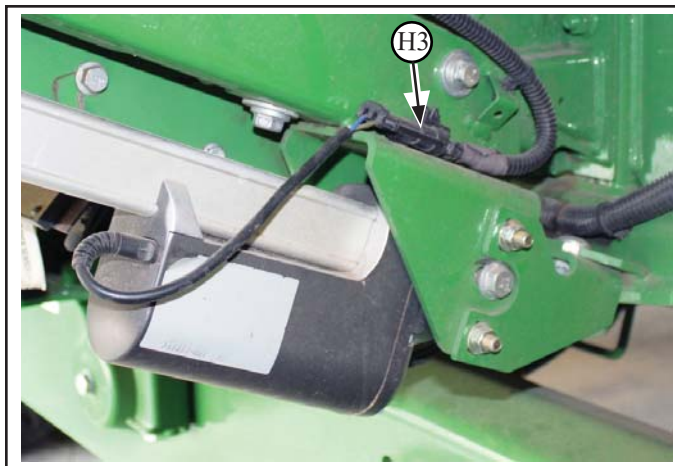
- M10 x 25 round head bolt and flange nut (C1) x4
- M12 x 30 round head bolt and flange nut (C2) x2
 - located in CD638S hardware bag
- both sides



- 3.4.4** Connect actuator harness (**H3**) to main harness
Route and attach harness to ensure wire will not be pinched

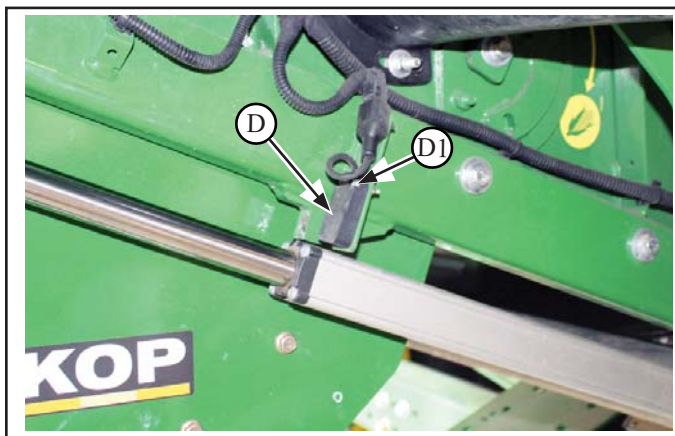


- both sides

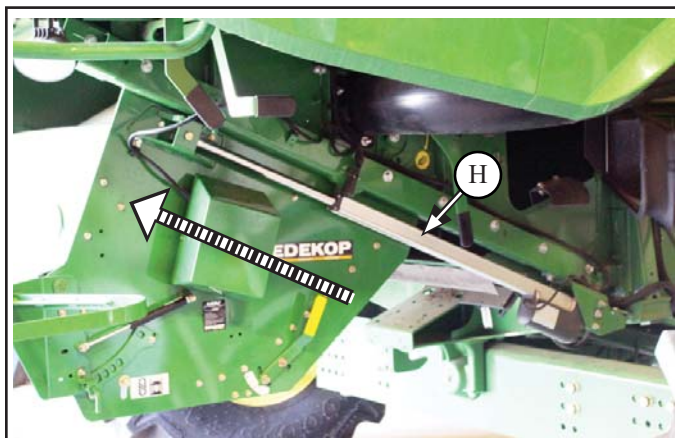


- 3.4.5** Install proximity sensor (**D**) on the right hand chopper rail with:
- #8-32 x .75 machine screw and lock nut (**D1**) x2
 - located in CD1271S hardware bag
 - ensure sensor is mounted facing towards the back of the combine with the flush side of the sensor against the mounting plate

3.4.5.1 Connect to harness



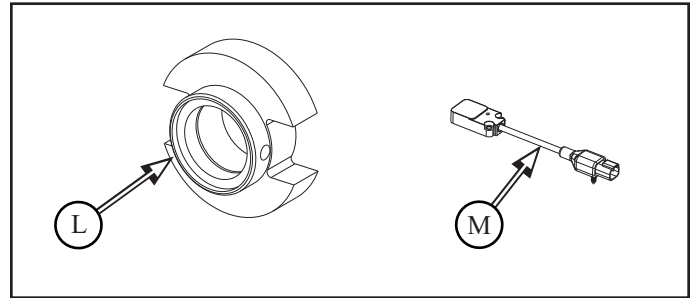
- 3.4.6**  Synchronize up the actuators (**H**) by fully extending the actuators (**H**) to run the chopper all the way up/rearward
- do not move chopper forward before synching up actuators
 - ensure inside of rails are clear of chaff and debris



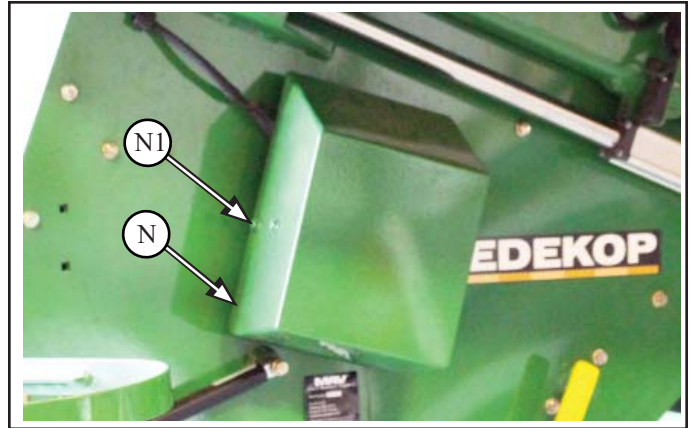
3.5 Speed Sensor and Target Installation

Parts List:

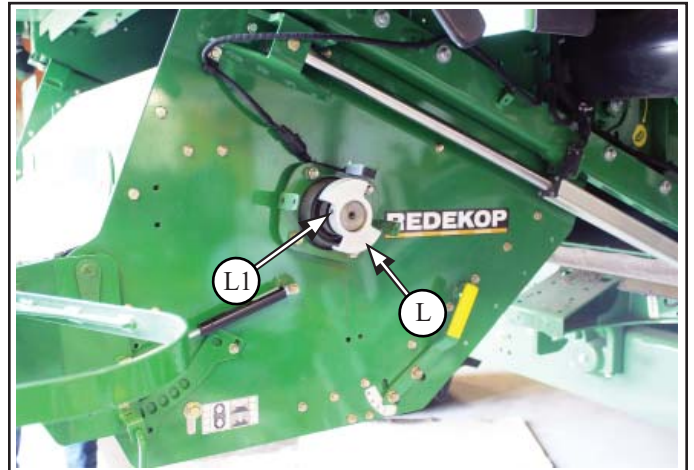
CD459G	Target Speed Sensor STS (L)	Qty 1
AH221249	Speed/Proximity Sensor (M)	Qty 1



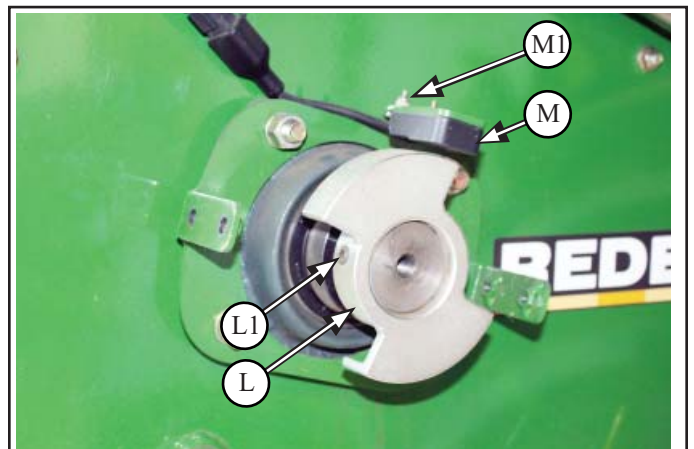
3.5.1 Remove sensor shield (N) on right side of chopper housing
- to be reinstalled



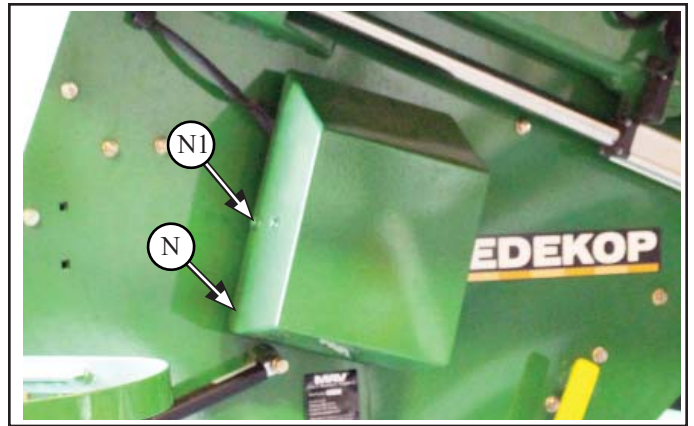
3.5.2 Install speed sensor target (L) onto the right hand chopper shaft, secure in place with:
- setscrew (L1)



3.5.3 Install speed sensor (M) over the speed sensor target (L), with:
- #8-32 x .75 machine screw and lock nut (M1) x2
- located in CD1271S hardware bag



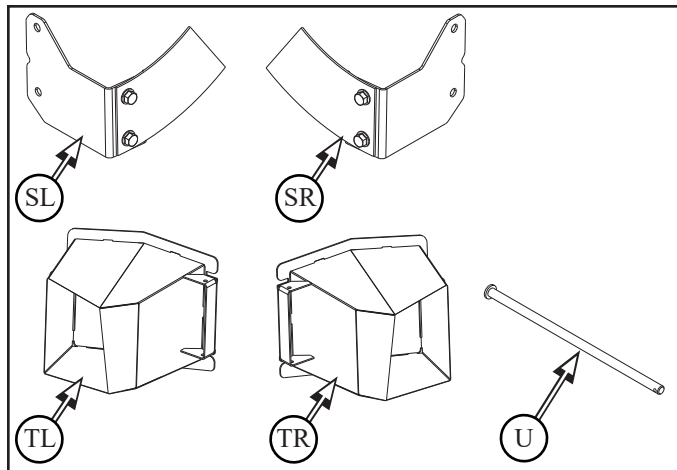
3.5.4 Reinstall sensor shield (**N**) on the right hand chopper shaft, with:
- reuse mounting hardware (**N1**) x4



3.6 Vent and Chaff Agitator Plate installation

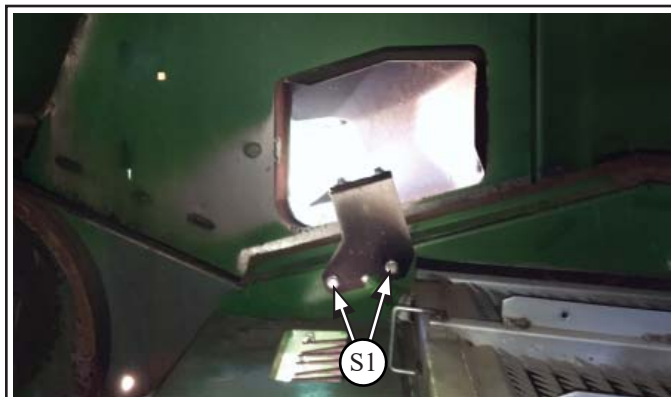
Parts List:

CD671GAL	Chaff Agitator Plate Assy Left (SL)	Qty 1
CD671BAR	Chaff Agitator Plate Assy Right (SR)	Qty 1
- CD671S hardware bag		
CD670GL	Vent S Series Left (TL)	Qty 1
CD670GR	Vent S Series Left (TR)	Qty 1
- CD670S hardware bag		
CD676Z	Vent Pin (U)	Qty 2



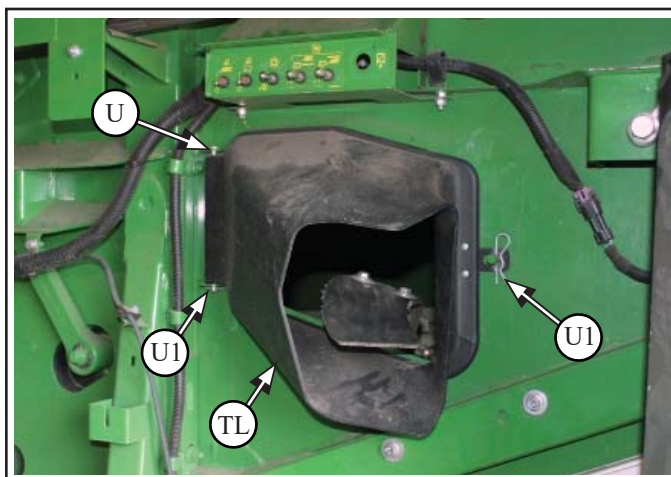
3.6.1 Install left chaff agitator plate assembly (**SL**) onto inside wall of combine through left vent hole with:

- M12 x 25 flange bolt (**S1**) x2
- located in CD671S hardware bag
- both sides



3.6.2 Install left vent cover (**TL**) over left vent hole onto tabs with:

- Pin (**U**)
- Hairpin (**U1**) x2
- located in CD670S hardware bag
- repeat for right side

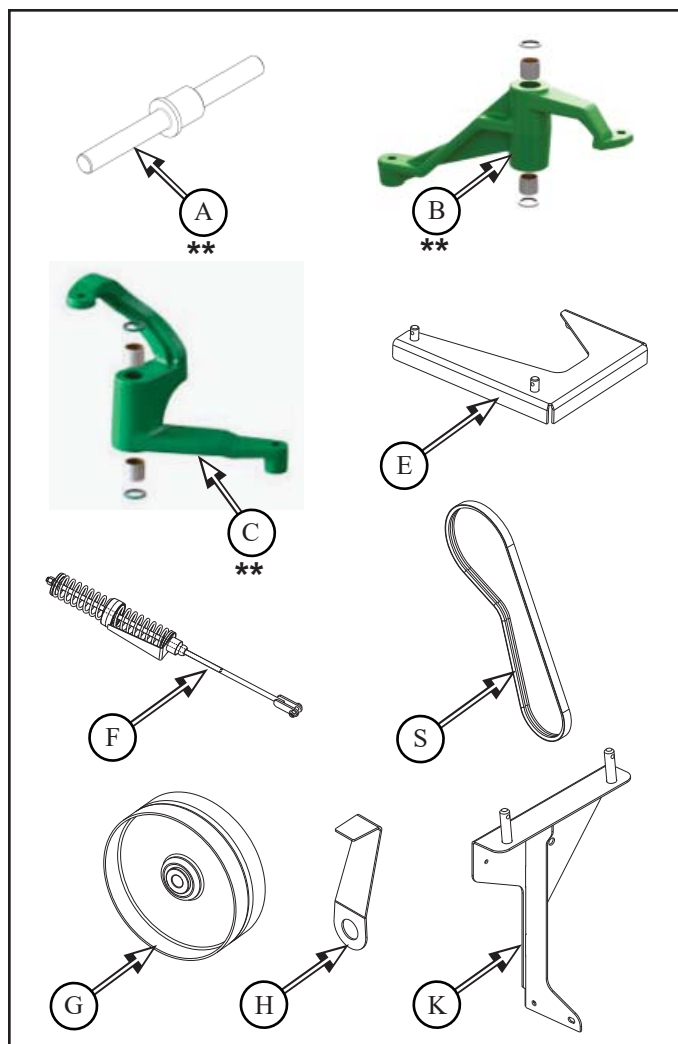


3.7 Idler Installation and Drive Completion

Parts List:

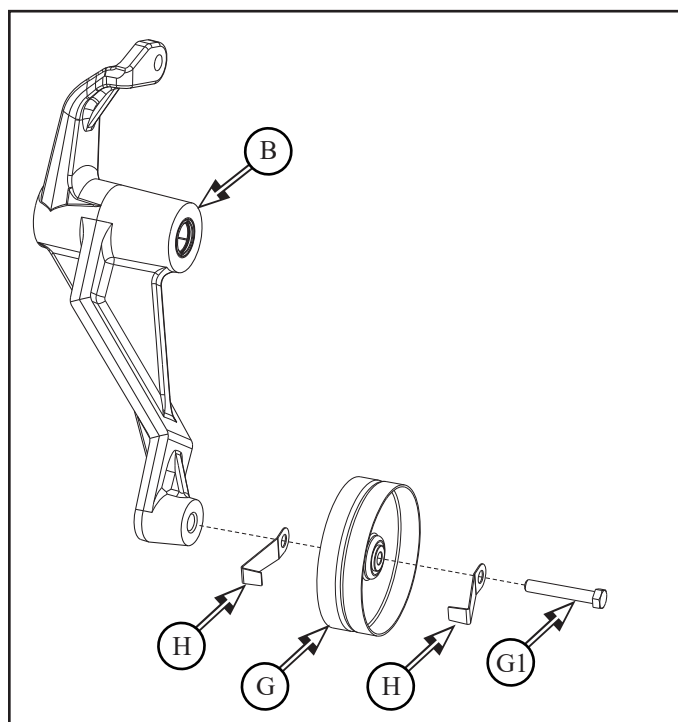
**** To be ordered from John Deere ****

HXE94548	Shaft Chopper Idler Pivot FC (A)	Qty 1
AXE23240	Idler arm (B)	Qty 1
AXE23567	Idler arm assembly (C)	Qty 1
CD653G	Front shield support (E)	Qty 1
-	CD653S hardware bag	
CD643ZA	Tension link assembly (F)	Qty 2
BE2C114K	VBelt 2C 114L Kevlar (S)	Qty 1
RP974	Idler Pulley (G)	Qty 2
-	CD1284S hardware bag	
CD649G	Scraper (H)	Qty 4
CD1235G	Rear shield support (K)	Qty 1
-	CD1235S hardware bag	



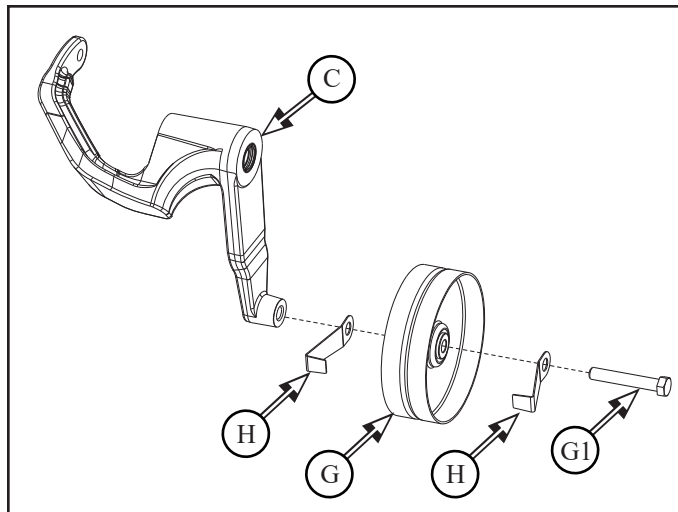
3.7.1 Install idler pulley (G) and scraper (H) x2 to idler arm (B), with:

- M16 x 60 flange bolt (G1)
- located in CD1284S hardware bag

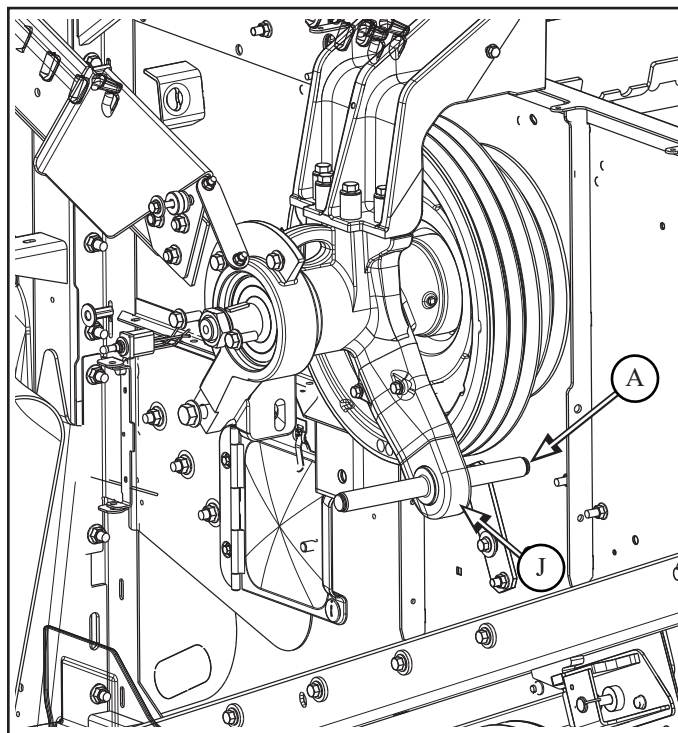


3.7.2 Install idler pulley (**G**) and scraper (**H**) x2 to idler arm (**C**), with:

- M16 x 60 flange bolt (**G1**)
- located in CD1284S hardware bag

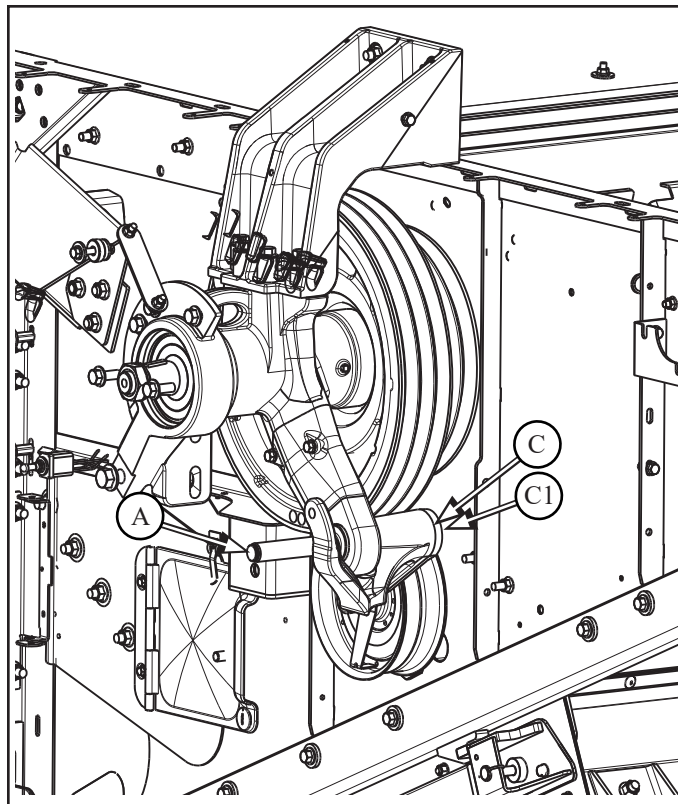


3.7.3 Install idler shaft (**A**) into arm (**J**)



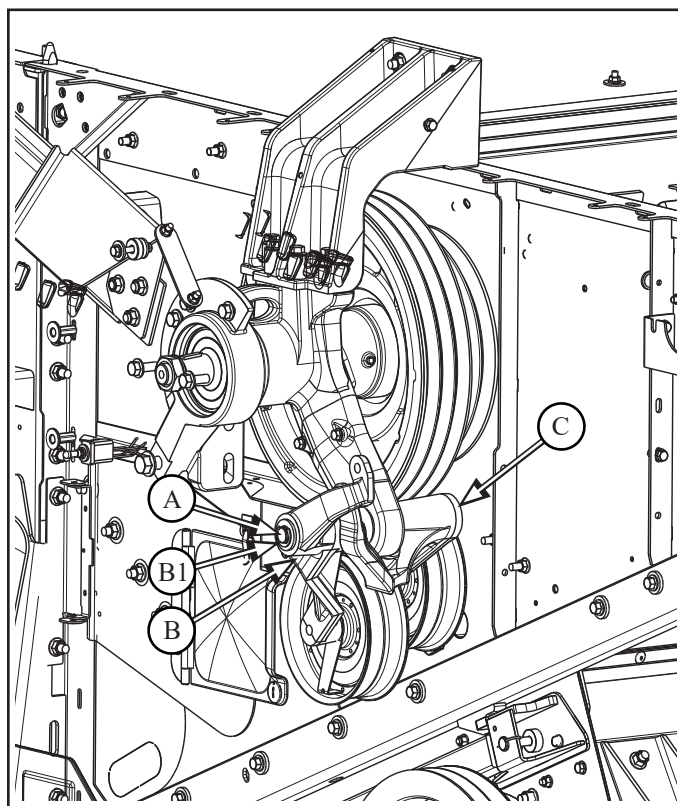
3.7.4 Install idler arm assembly (**C**) to inside of idler shaft (**A**), with:

- flat washer and retaining clip (**C1**)
- located in CD1285S hardware bag



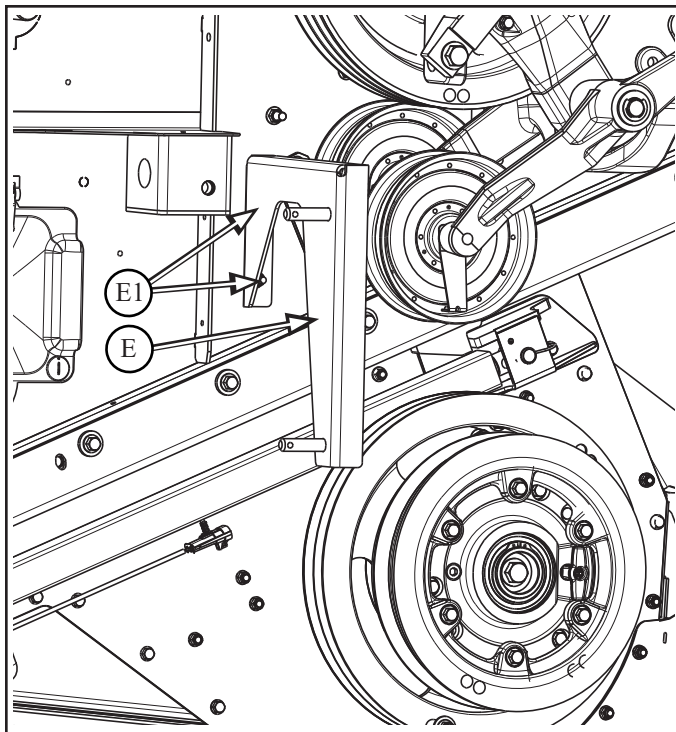
3.7.5 Install idler arm assembly (**B**) to outside of idler shaft (**A**), with:

- flat washer and retaining clip (**B1**)
- located in CD1285S hardware bag



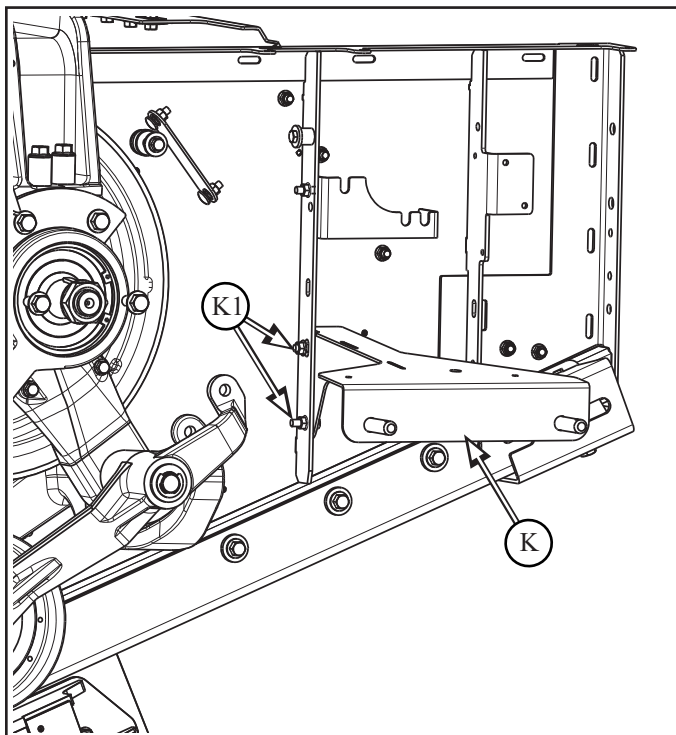
3.7.6 Install front shield support (**E**) onto rear side wall of combine with:

- M8 x 25 round head bolt and flange nut (**E1**) x2
- located in CD653S hardware bag



3.7.7 Install rear shield support (**K**) onto rib of rear side wall of combine with:

- M8 x 25 flange bolt and flange nut (**K1**) x2
- located in CD1235S hardware bag

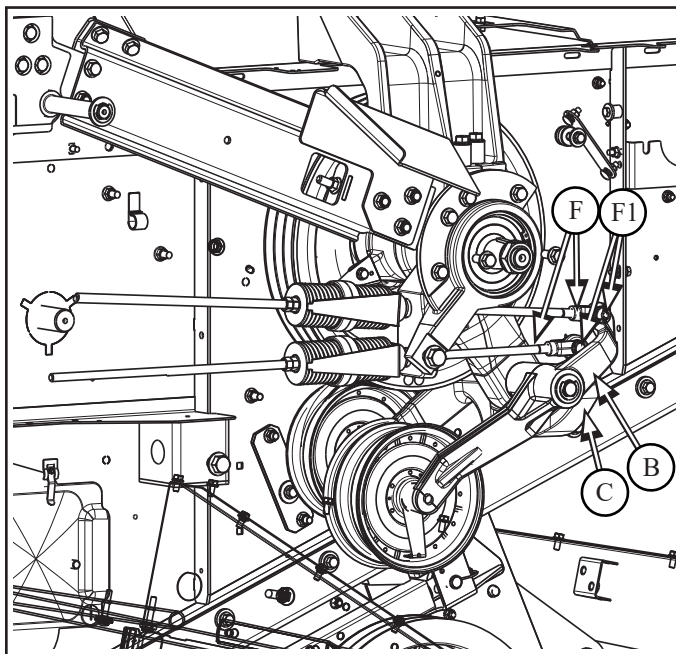
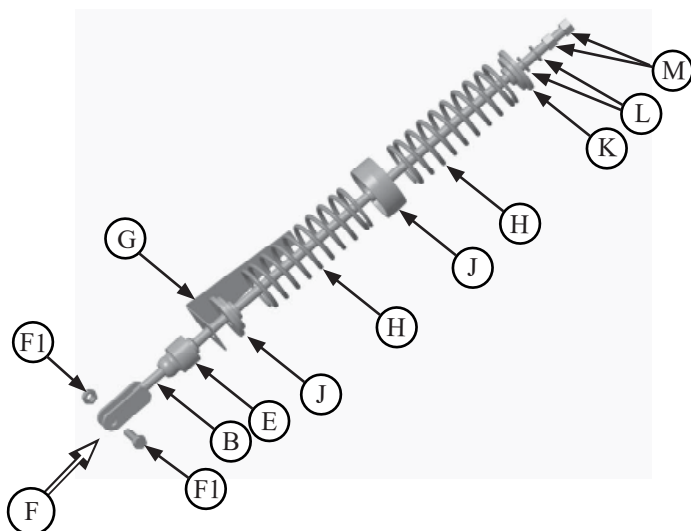


3.7.8 Install tension link assemblies (F) x2 to tension link arms (B & C), with:

- M10 x 35 hex head bolt and lock nut (F1)
- located in CD643S hardware bag

CD643ZA Tension Link Assembly (F) Parts List:

CD643Z	Tension Link 30L (B)	Qty 1
B11M-1035	M10 x 35 Hex Head Bolt (F1)	Qty 1
N42M-10	M10 Lock Nut (F1)	Qty 1
- located in CD643S hardware bag		
CD650-01	Pivot Spring (E)	Qty 1
CD647G	Spring Indicator 6.5L (G)	Qty 1
HXE13792	Spring (H)	Qty 2
HXE13793	Spring Stop (J)	Qty 1
CD648Z	Spring Washer (K)	Qty 3
W11M-12	Flat Washer (L)	Qty 2
N11M-12	Hex Nut (M)	Qty 2



3.7.9 Drive Belt Installation

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

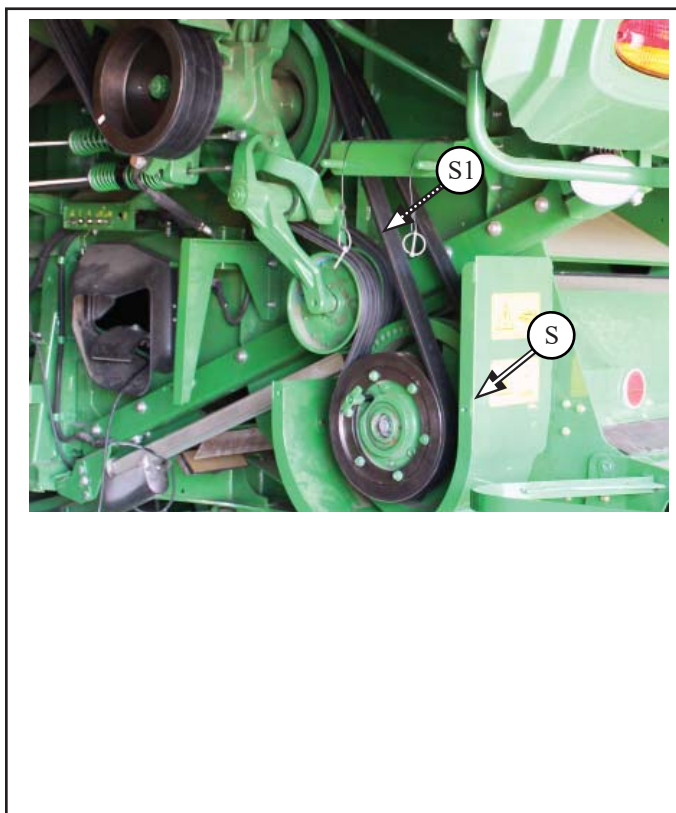
- 1st - BE2C112K (T) onto large Jackshaft sheave
- 2nd - Beater Belt (S1) onto middle sheave
- 3rd - BE2C114K (S) low speed belt on sheave closest to wall

3.7.10 Install new low speed 2 groove BE2C114K V drive belt (S) onto large drive sheave on chopper

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

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

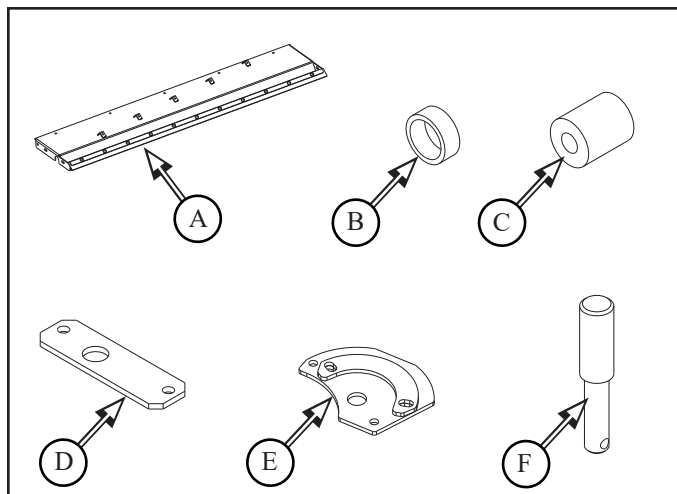
3.7.13 Tighten all belt spring tensioners to indicated length



3.8 Straw Deflector Installation

Parts List:

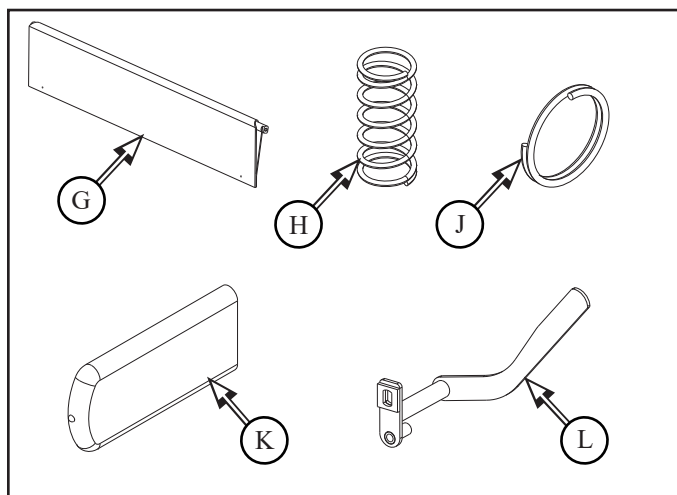
CD1240GA Chopper Inlet Deflector Assy (A)	Qty 1
CD1238Z Bushing (B)	Qty 1
CD1222Z Bushing(C)	Qty 1
CD1223G Plate Crop Diverter (D)	Qty 1
CD1228G Plate Positioning Latch (E)	Qty 1
CD1230Z Pin Shouldered Drilled End (F)	Qty 1



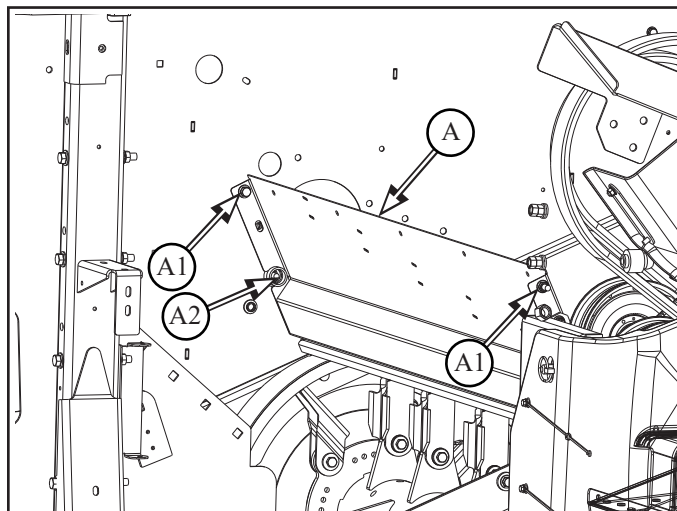
**CUSTOMER TO ORDER FROM JOHN DEERE:

Parts List:

AXE21425 Crop Diverter Cover (G)	Qty 1
R28783 Spring Compression (H)	Qty 1
H174818 Ring Pin Stop(J)	Qty 1
W25634 Grip Handle (K)	Qty 1
AXE26456 Handle Level Crop Diverter (L)	Qty 1

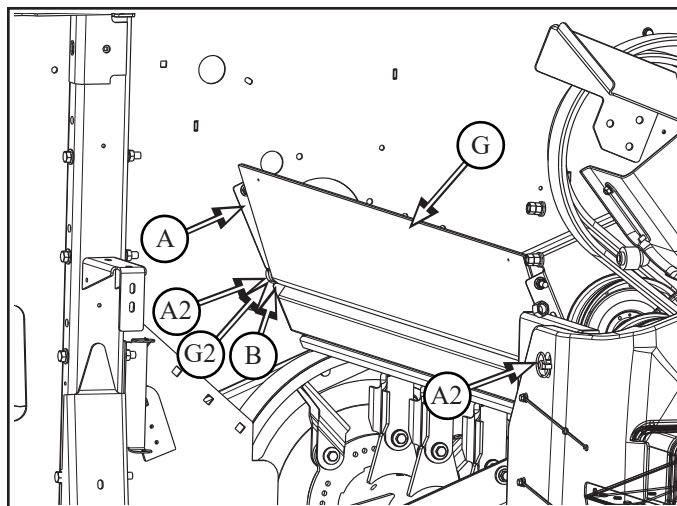


- 3.8.1** Install inlet deflector assembly (A) to inside of combine wall over straw chopper rotor, with:
- M10 x 30 flange bolt and flange nut (A1) x2
 - top hole only
 - located in CD1240S hardware bag



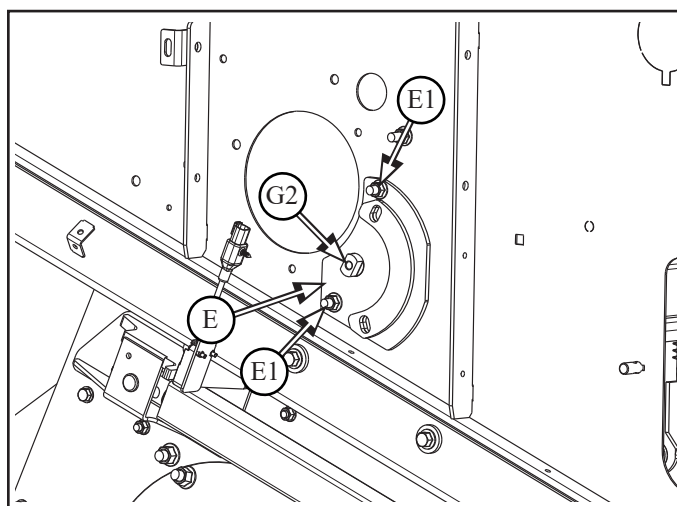
3.8.2 Slide pivot pipe (**G2**) of crop diverter cover (**G**) into holes (**A2**) of deflector assembly (**A**)

- bushing (**B**) between inside of wall and pivot pipe



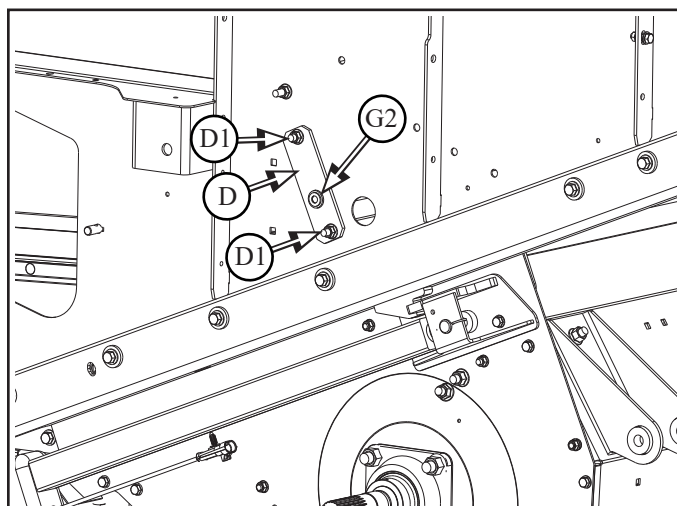
3.8.3 Install latch positioning plate (**E**) onto outside of right combine wall over pivot pipe (**G2**), with:

- M10 x 30 flange bolt and flange nut (**E1**) x2
- head of bolts to be inside of combine
- located in CD1240S hardware bag



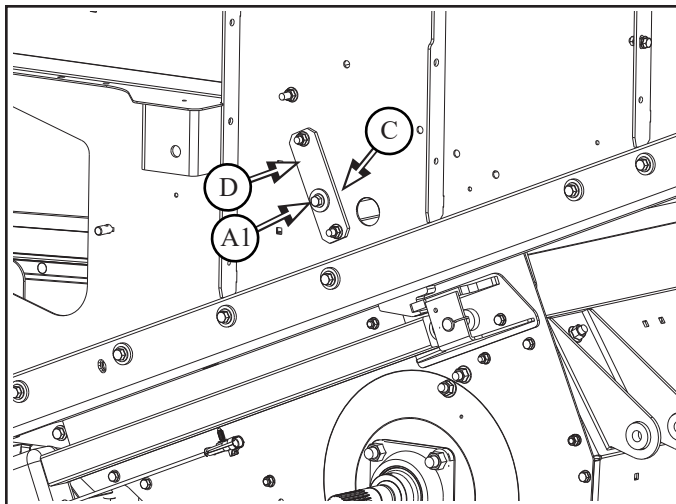
3.8.4 Install diverter plate (**D**) onto outside of left combine wall over pivot pipe (**G2**), with:

- M10 x 30 flange bolt and flange nut (**E1**) x2
- head of bolts to be inside of combine
- located in CD1240S hardware bag



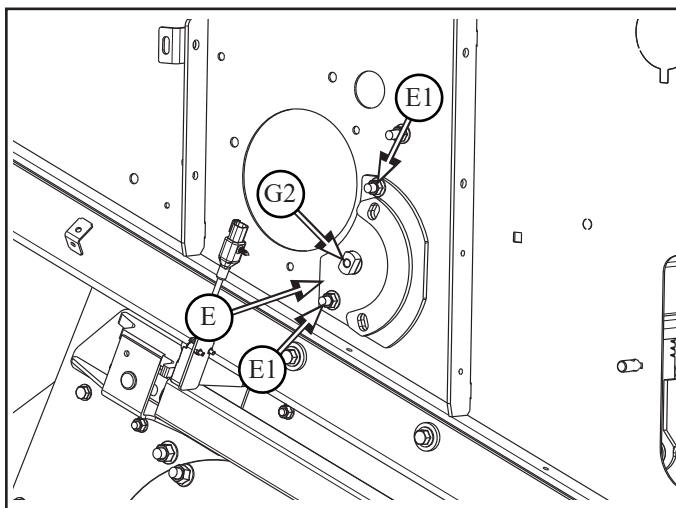
3.8.5 Secure pivot pipe (**G2**) of crop diverter cover (**G**) to left combine wall, with:

- bushing (**C**) between inside of wall and pivot pipe,
- M10 x 50 flange bolt and flat washer (**A1**)
- located in CD1274S hardware bag

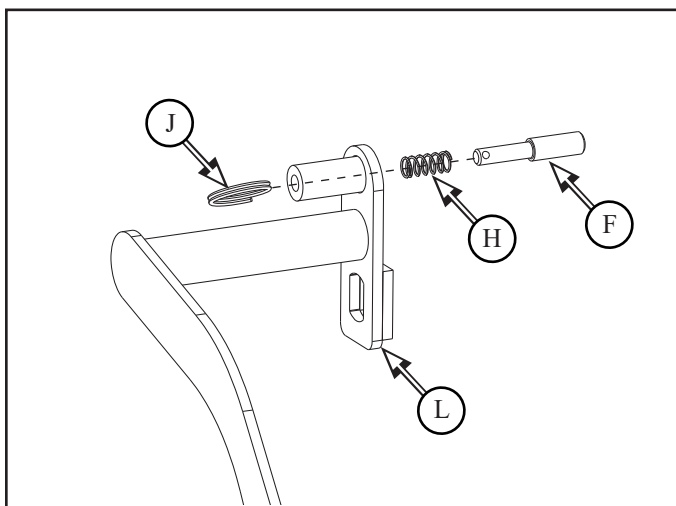


3.8.6 Secure pivot pipe (**G2**) of crop diverter cover (**G**) to left combine wall, with:

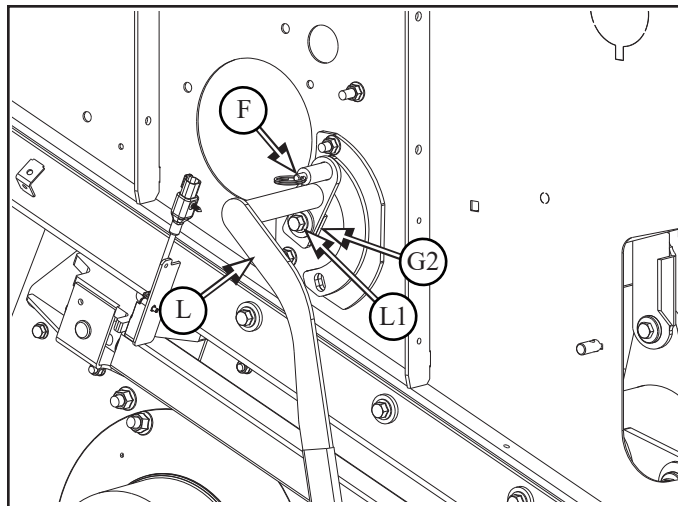
- bushing (**C**) between inside of wall and pivot pipe,
- M10 x 50 flange bolt and flat washer (**A1**)
- located in CD1274S hardware bag



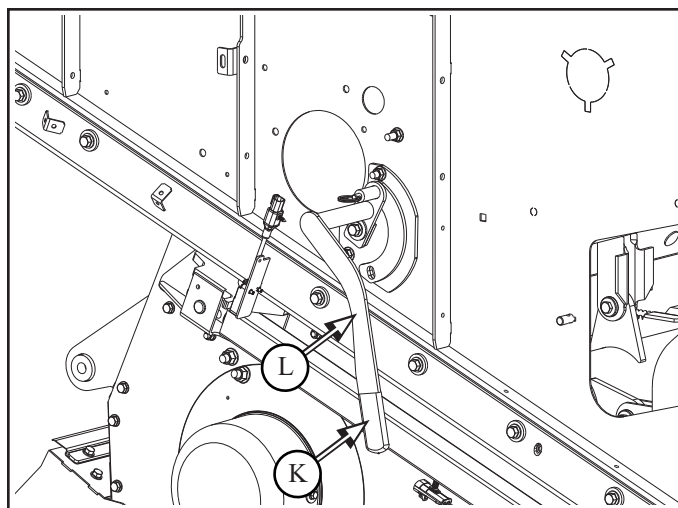
3.8.7 Install spring (**H**) and pin (**F**) into diverter handle (**L**), secure with split ring (**J**) thru hole in pin (**F**)



- 3.8.10** Install diverter handle (**L**) to pivot pipe (**G2**) on right side of combine, with:
- M10 x 50 flange bolt and flat washer (**L1**)
 - ensure handle/inlet deflector assembly (**A**) pivots and latch pin (**F**) seats in hole
 - located in CD1274S hardware bag



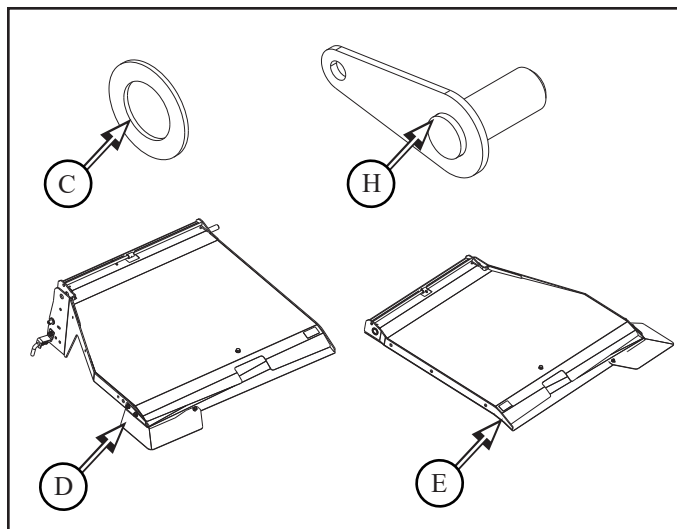
- 3.8.11** Slide grip (**K**) onto diverter handle (**L**)



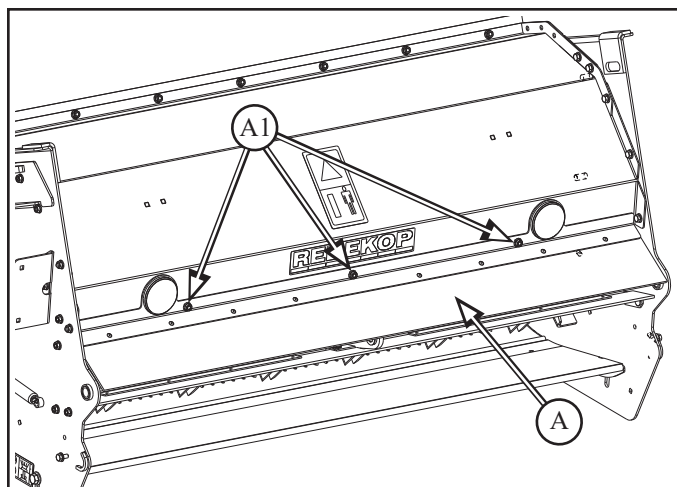
3.9 Tailboard Installation

Parts List:

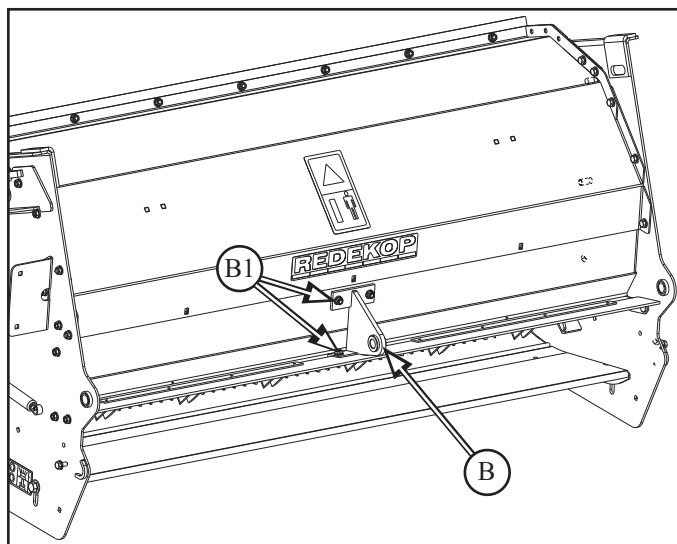
RP108	Machine Bushing .76 id x 1.25 od (C)	Qty 2
	- located in tailboard fin box hardware bag	
CC212Z	Pin Tailboard Pivot (H)	Qty 2
	Tailboard Lt (D)	Qty 1
	Tailboard Rt (E)	Qty 1



3.9.1 Remove top tailboard seal assembly (A) from rear of chopper
- seal assembly (A) and mount hardware (A1) to be reinstalled



3.9.2 Remove tailboard center mount bracket (B) from rear of chopper
- bracket (B) and mount hardware (B1) to be reinstalled



3.9.3 Slide machine bushing (C) onto left tailboard pin (D1)

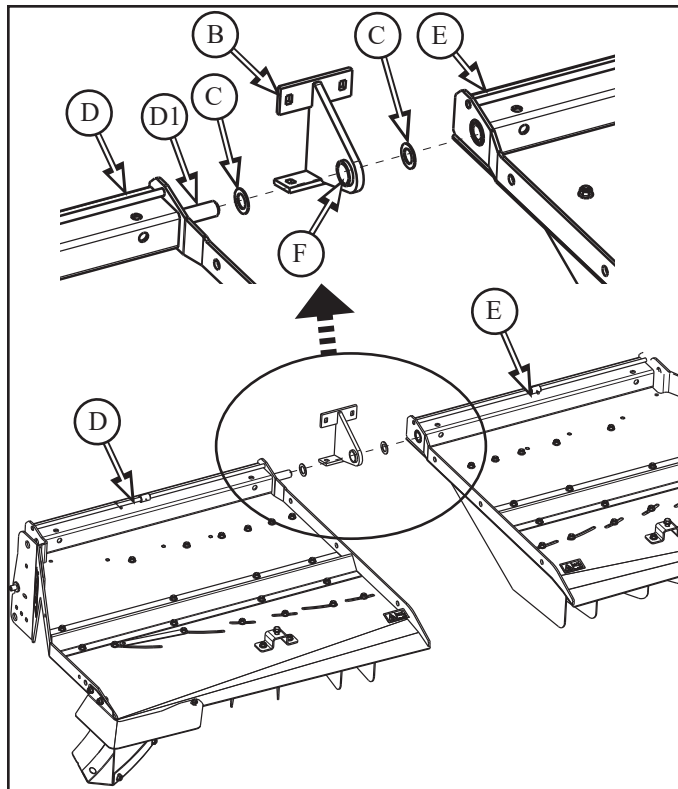
- located in tailboard fin box hardware bag

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

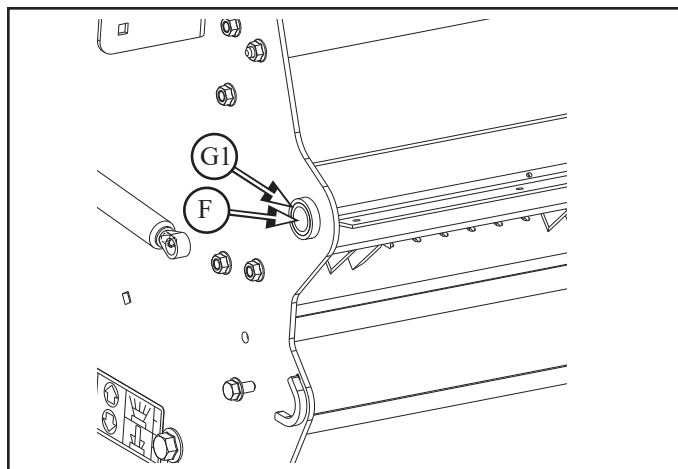
- ensure nylon bushing (F) is in hole of bracket (B)

3.9.5 Slide machine bushing (C) onto tailboard pin (D1)

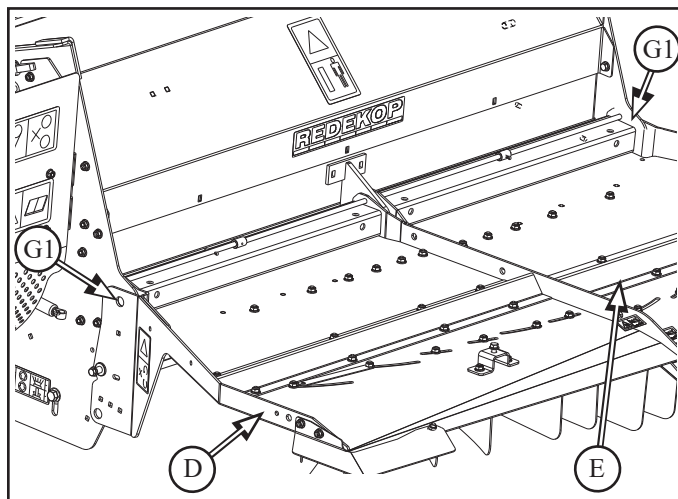
3.9.6 Slide right tailboard (E) onto tailboard pin (D1)



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



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

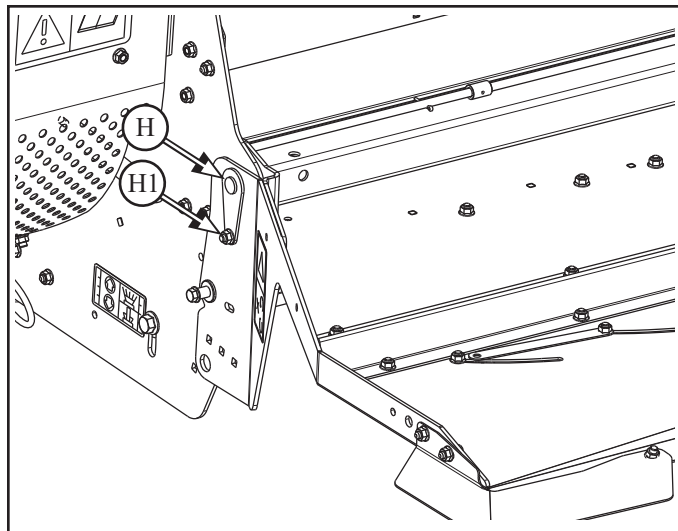


3.9.8.1 Secure tailboards into place, with

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

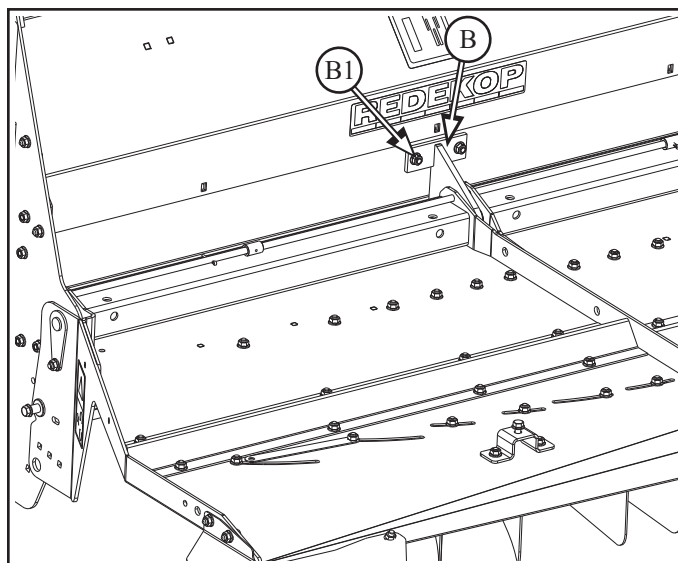
3.9.8.2 Secure pivot pin (**H**) in place, with:

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



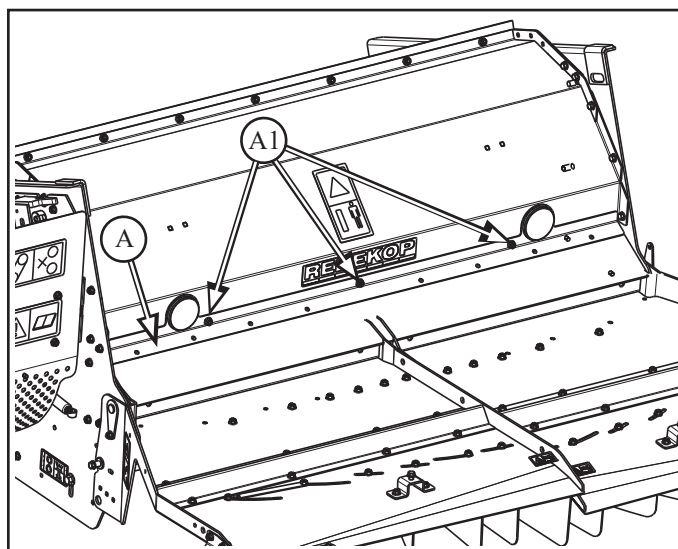
3.9.9 Fasten center tailboard mount bracket (**B**) to rear of chopper, with:

- reuse mount hardware (**B1**) x4



3.9.10 Reinstall top tailboard seal assembly (**A**) to chopper, with:

- reuse mount hardware (**A1**) x3



3.10 Gas Spring and Tailboard Guard Installation

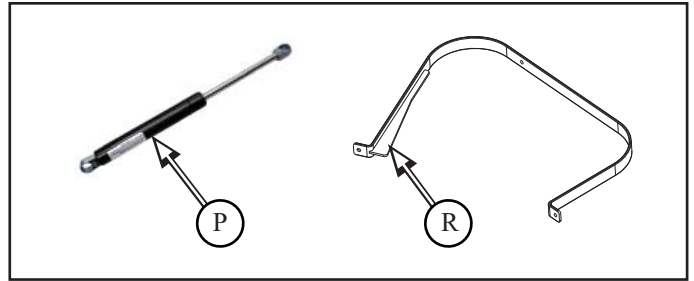
Parts List:

RP951A Gas spring (**P**)

Qty 2

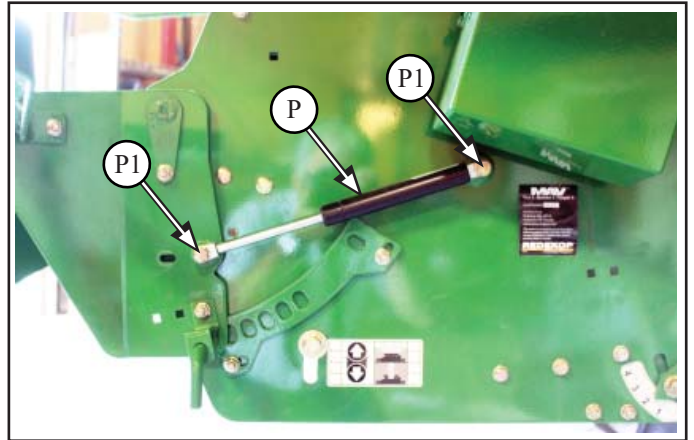
CS171G Tailboard guard (**R**)

Qty 2



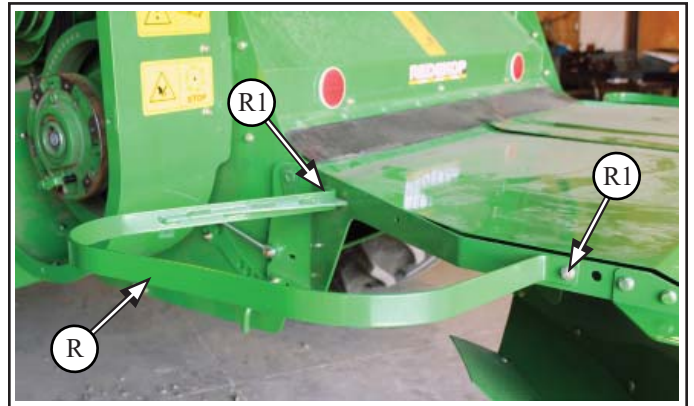
3.10.1 Install gas spring (**P**) onto side of chopper housing and tailboard studs with:

- M8 x 16 flange bolt (**P1**) x2
 - located in CD680S hardware bag
- both sides



3.10.2 Install tailboard guard (**R**) onto side of tailboard with:

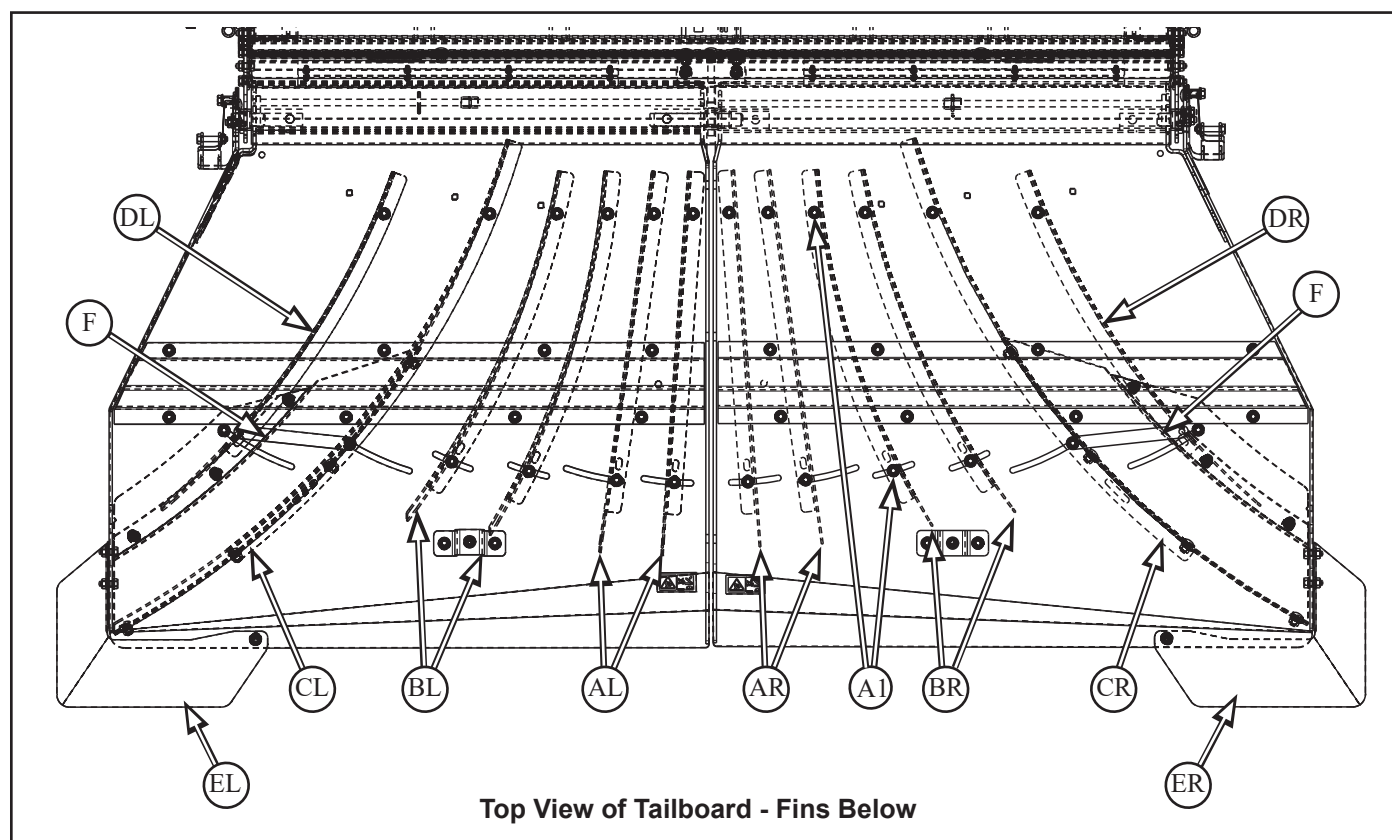
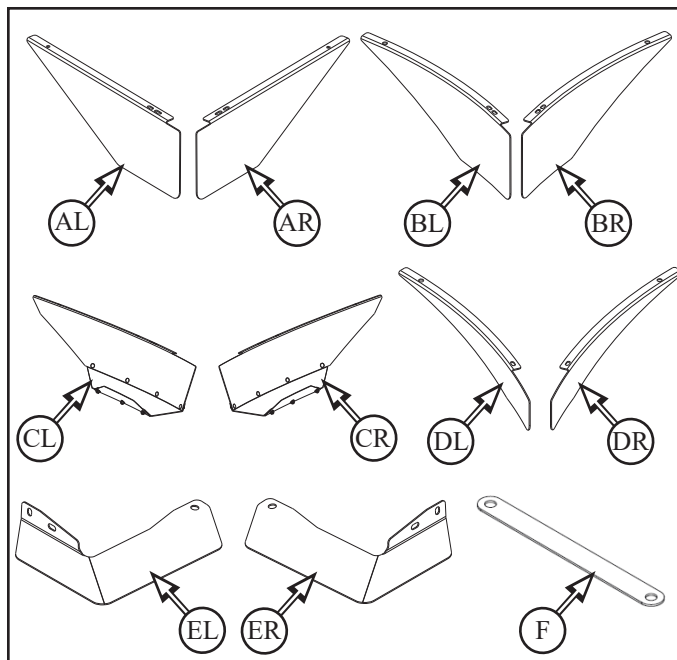
- M8 x 20 flange bolts and flange nut (**R1**) x2
 - located in CD680S hardware bag
- ensure head of bolt is on inside of tailboard
- both sides



3.11 Tailboard Fin Installation

Parts List:

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



Top View of Tailboard - Fins Below

3.11.1 Install tailboard fins to underside of tailboards as shown, with:

- M8 x 16 round head bolt and flange nut (**A1**) x2 per fin
- ensure head of bolt is on bottom pointing up

3.11.2 Install connector link (**F**) to scooped fin and small curved fin (**D**) on top of tailboard

- both sides

3.12 Air Chute Installation

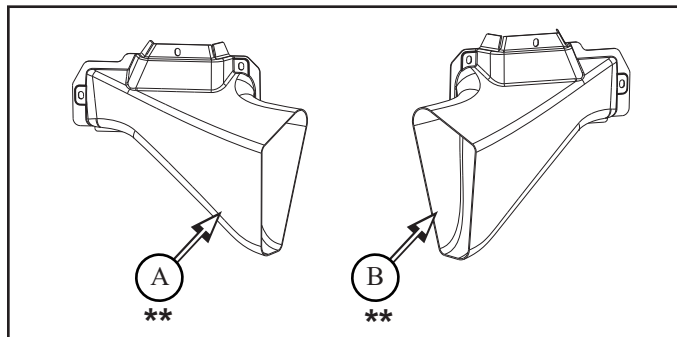
Parts List:

**** To be ordered from John Deere ****

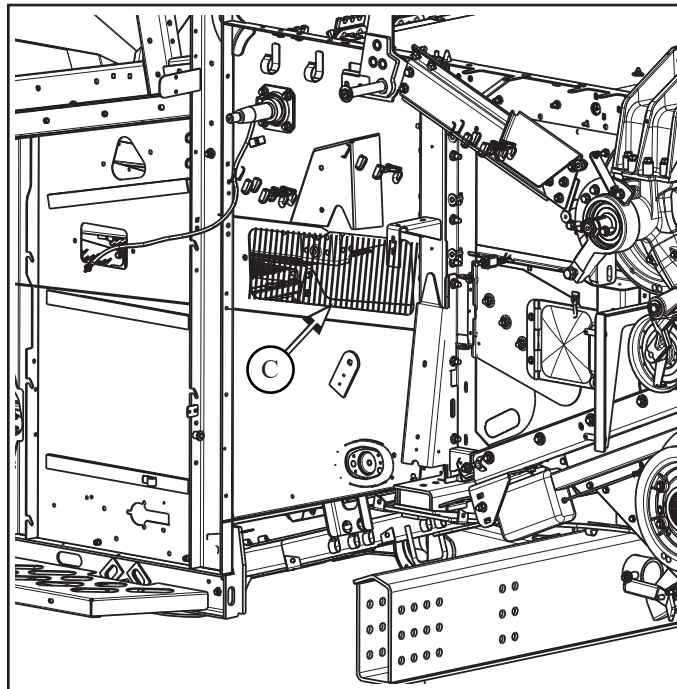
HXE83981 Air Chute Left (**A**) Qty 1

HXE83982 Air Chute Right (**B**) Qty 1

- CD1295S hardware bag

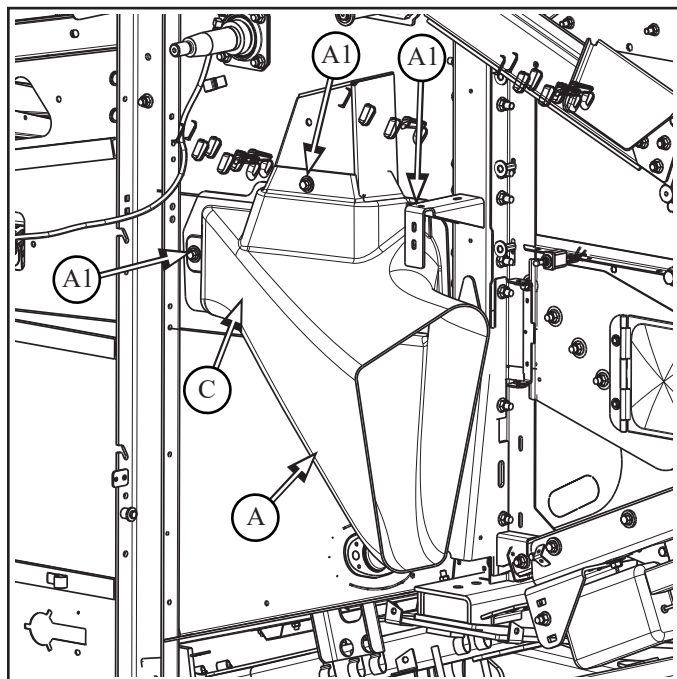


3.12.1 Air chute to be installed over inlet hole (**C**) on side of combine
- both sides



3.12.2 Install left air chute (**A**) over inlet hole (**C**), with:
- M10 x 25 flange bolt, flat washer and flange nut (**A1**) x3
- located in CD1295S hardware bag

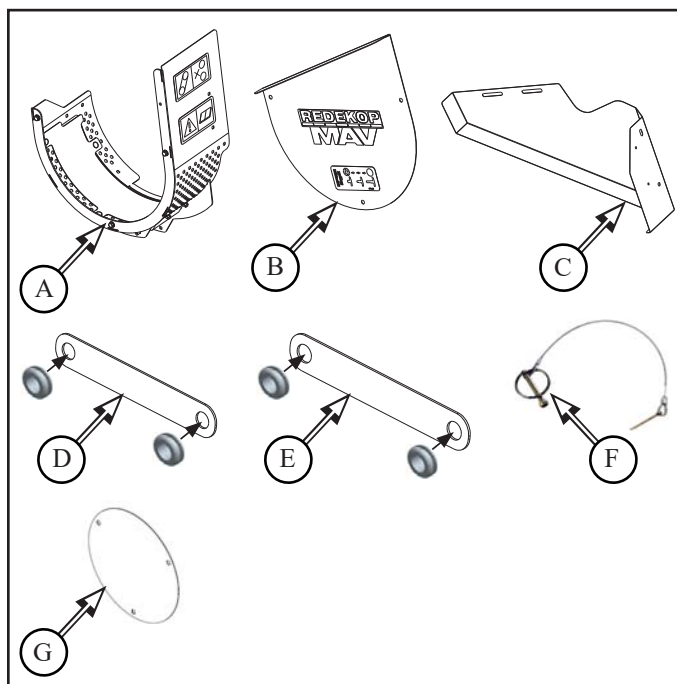
3.12.3 Repeat for right side



3.13 Shield Installation

Parts List:

SC440GA	Bottom shield (A)	Qty 1
CD655GA	Bottom shield cover (B)	Qty 1
CD659G	Upper shield (C)	Qty 1
CD660GA	Shield strap 12" (D)	Qty 1
CD661GA	Shield strap 13.5" (E)	Qty 1
RP1094	Lynch Pin (F)	Qty 4
CD672G	Jackshaft shield plate (G)	Qty 1



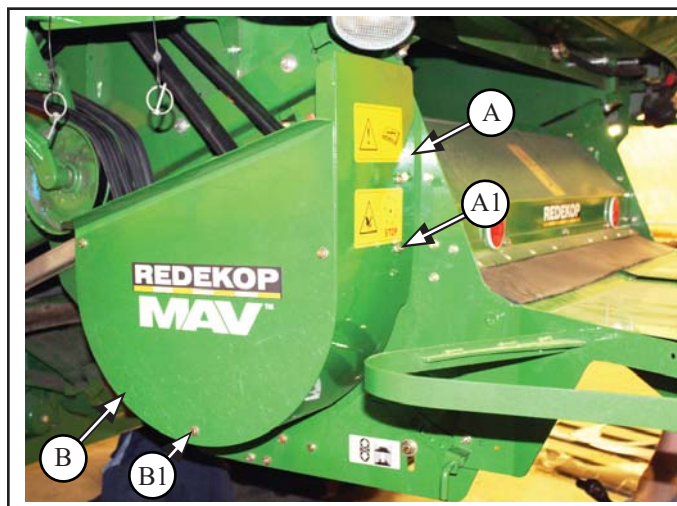
3.13.1 Reinstall bottom shield (A) and cover (B) if previously removed from chopper, reuse mounting hardware

3.13.1.1 Install bottom shield (A) onto mount brackets on side of chopper with:

- M8 x 16 round head bolt and flange nut (A1) x6

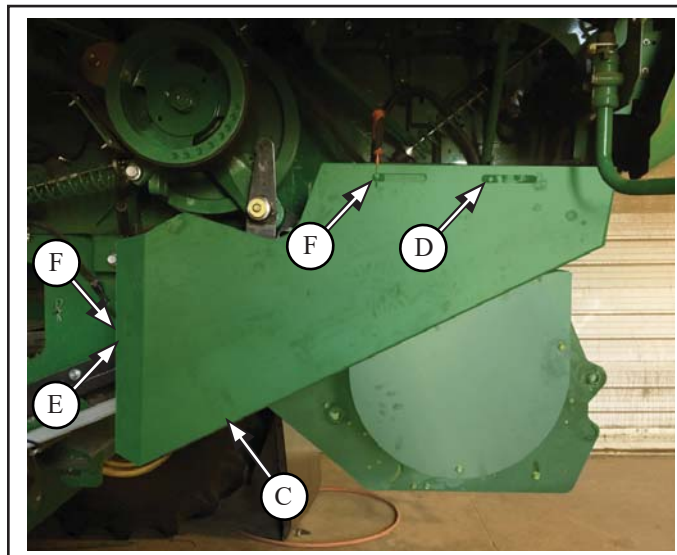
3.13.1.2 Install bottom shield cover (B) onto bottom shield (M) with:

- M8 x 16 flange bolt (B1) x3



3.13.2 Install upper drive shield (C) onto upper and side pins and secure in place with:

- shield strap 12" (D)
- shield strap 13.5" (E)
- lynch pin (F) x4
 - located in CD659S hardware bag

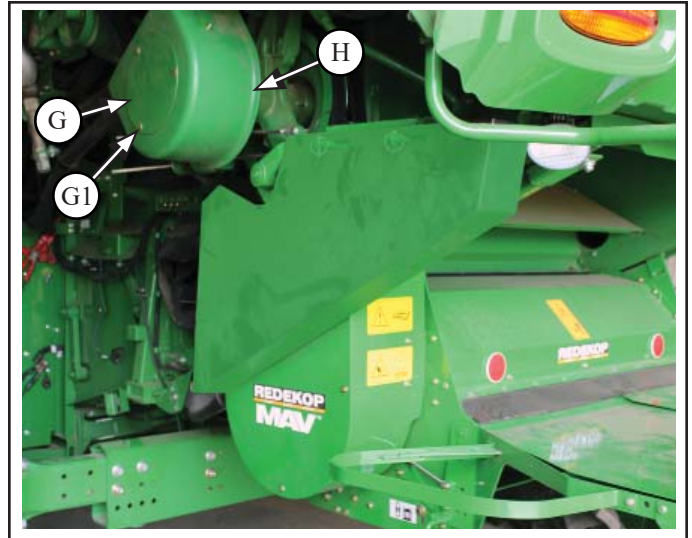


3.13.3 Reinstall jackshaft shield (**H**) over sheave on jackshaft with:

- reuse existing hardware

3.13.4 Install jackshaft shield plate (**G**) onto side of jackshaft shield (**H**) with:

- M8 x 20 round head bolt and flange nut (**G1**) x3
- located in CD672S hardware bag



4 Configure Cab Monitor Software

If combine is without a chopper, has a spreader

- change line # 112 (to activate chopper)

- 4th last digit to 1

4.1 S700 & early S600 Series Combine

Procedure to reconfigure software:

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

4.1.1 Select main menu icon



4.1.2 Select message center icon



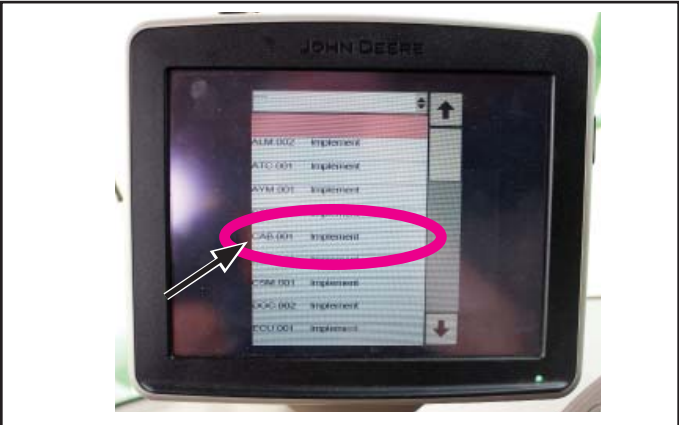
4.1.3 Select address icon



4.1.4 Select devices



4.1.5 Scroll down / select CAB.001



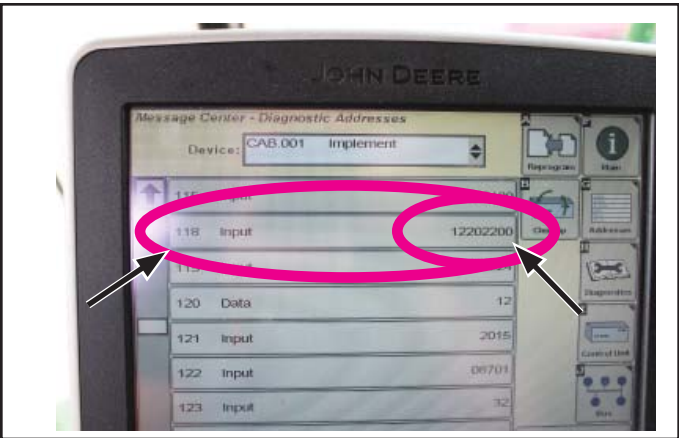
4.1.6 Scroll down to line #118

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

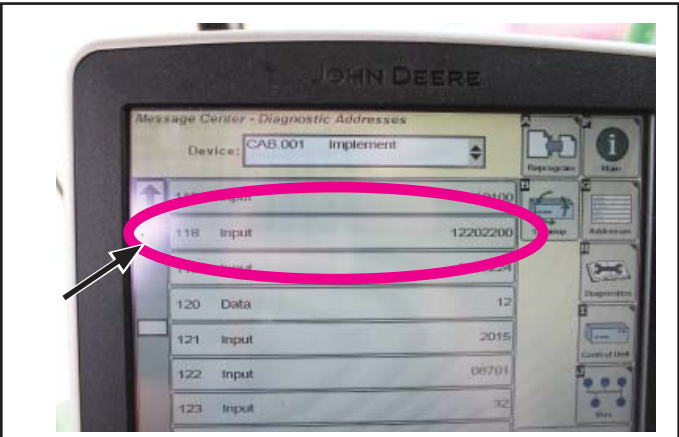
or

4.1.6 Scroll down to line #112

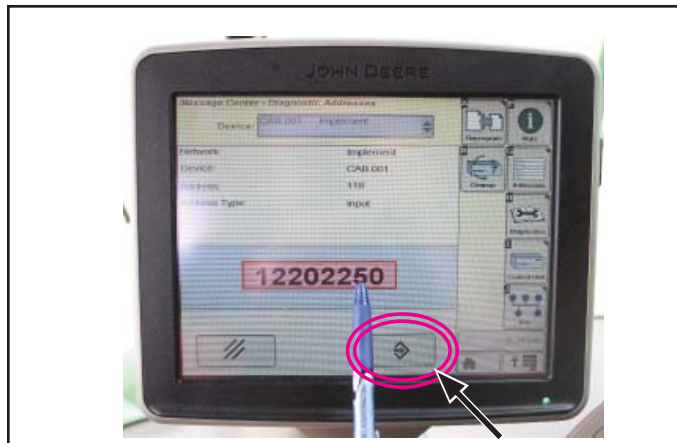
**** RECORD Number shown on display at line #112 ****
(number will disappear in edit mode)



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



4.1.8 Select edit mode to input new number



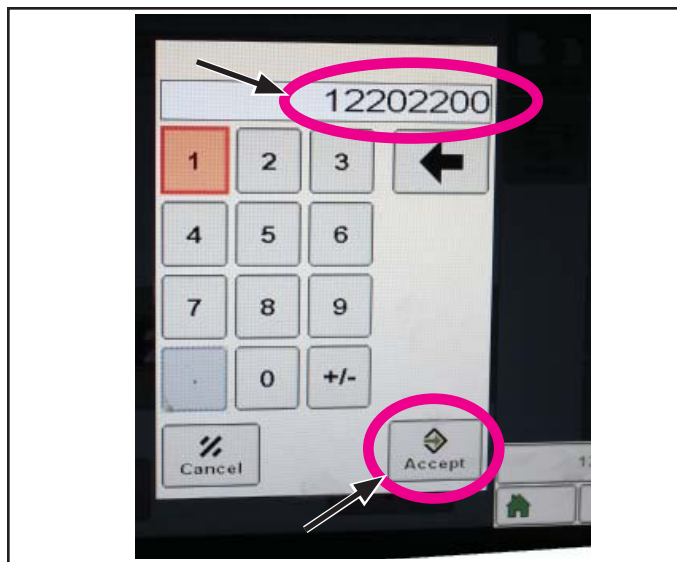
4.1.9 For line #118 - Type in complete new number with 2nd last number being a 0

or

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

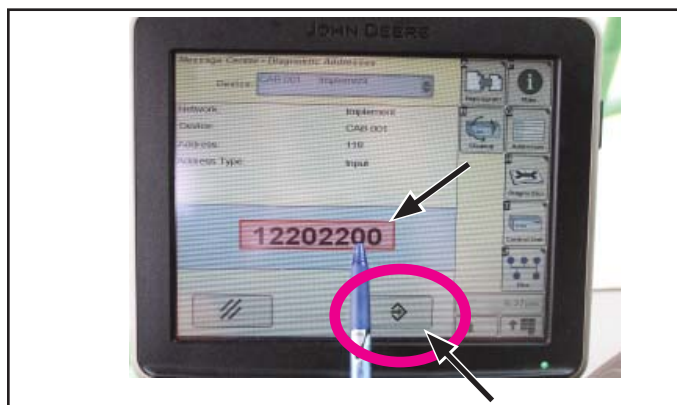
New number will be the original number recorded in previous step, but changing the 1 number as noted above

4.1.10 Select accept

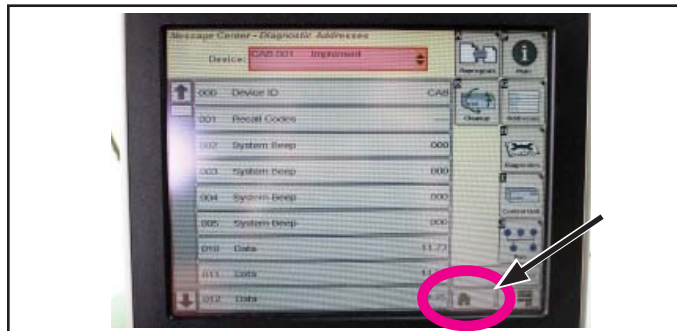


4.1.11 New number now displays

4.1.12 Select accept icon to save the change



4.1.13 Select home icon



4.2 700 Series Combine

Procedure to reconfigure software:

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

4.2.1 Select menu icon

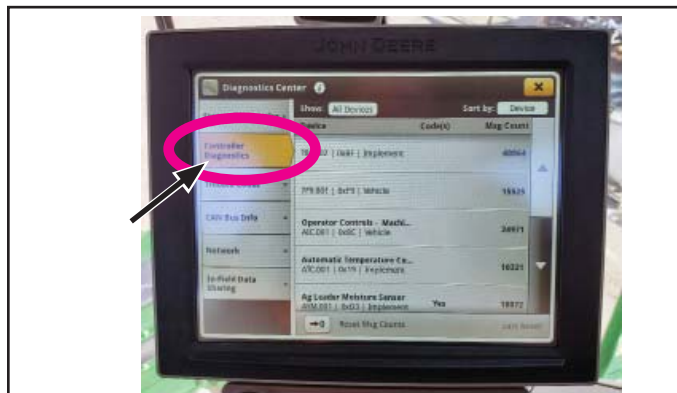


4.2.2 Select system

4.2.2.1 Select diagnostics center



4.2.3 Select controller diagnostics



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



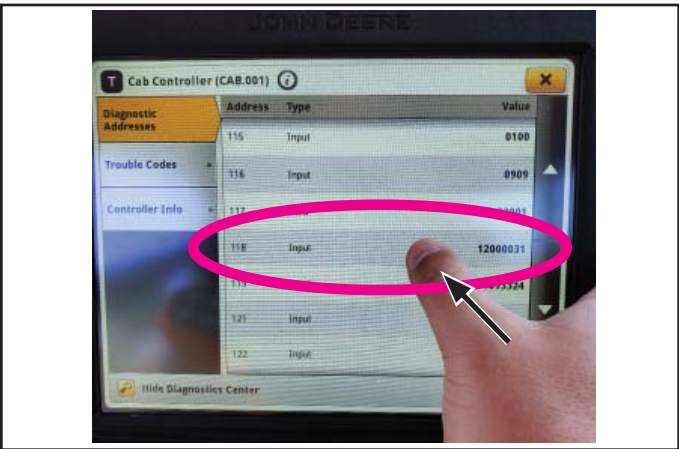
4.2.5 Scroll down to line #118 and select it

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

or

4.2.5 Scroll down to line #112 and select it

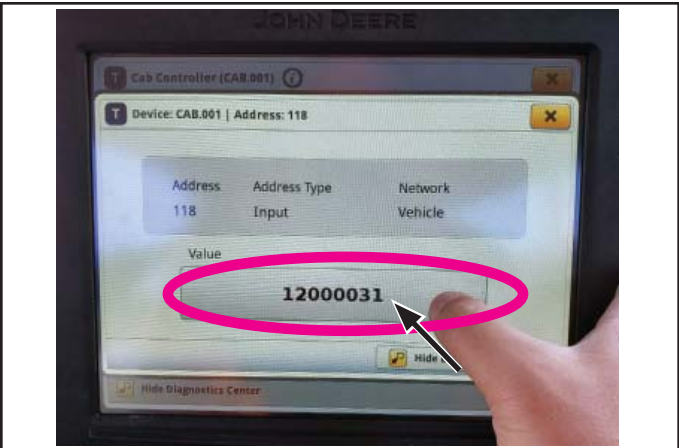
**** RECORD Number shown on display at line #112 ****



4.2.6 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

4.2.7 Select value to input new number



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

or

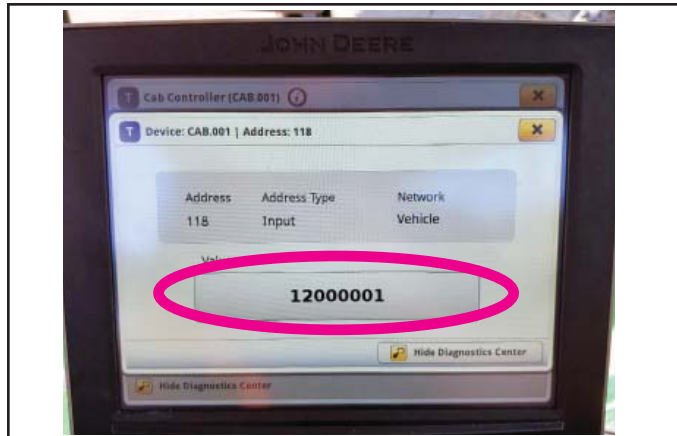
For line #112 - change 4th last number to a 1

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

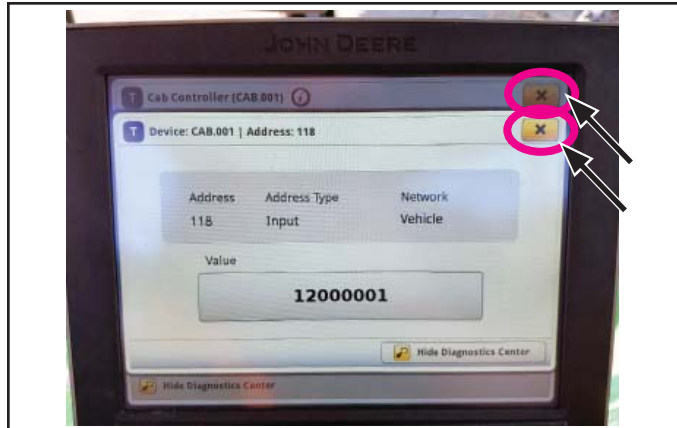
4.2.9 Select OK



4.2.10 New number now displays



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



4.2.12 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.



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.

Notes:

REDEKOP MANUFACTURING

1.866.REDEKOP (1.866.733.3567)

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For additional and the most up to date Manuals:



EQR002

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