

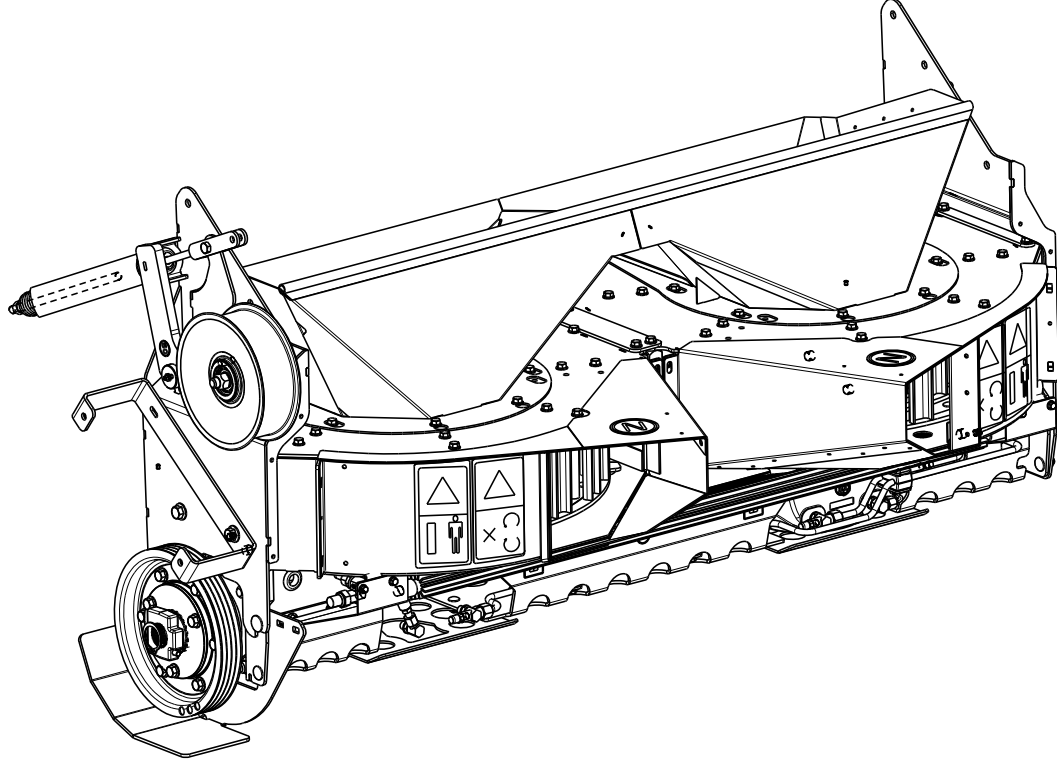
REDEKOP™

SEED CONTROL UNIT
JOHN DEERE S-SERIES
WITH REDEKOP MAV CHOPPER

INSTALLATION MANUAL

PRODUCT NUMBER: **850-110H**

SC003-01_R10



Seed Control Unit

for JD S-Series with Redekop MAV Chopper Installation Manual

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0 Safety

0.1 Instructions

0.1.1 IMPORTANT: Read through this instruction manual thoroughly and familiarize yourself with the Seed Control Unit before installation of these components.

This instruction manual explains the proper procedure for installation of the Redekop Seed Control Unit. Do not skip steps or perform them out of order.



0.2 Recognize Safety Information

0.2.1 This is a safety-alert symbol. When you see this symbol on your straw chopper 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 Seed Control Unit 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 manual.

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

Keep your Seed Control Unit in proper working condition. Unauthorized modifications to the Seed Control Unit may impair the function and/or safety and affect the Seed Control Unit's life.

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



0.5 Safe Operating Practices

0.5.1 DO NOT stand near the straw chopper and Seed Control Unit 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 Seed Control Unit only when all guards are correctly installed.

Before moving away, always check immediate vicinity of Seed Control Unit (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.

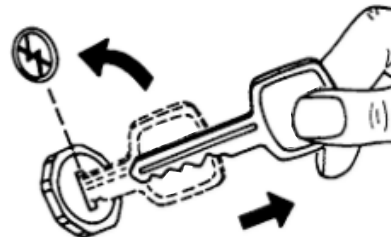


0.7 Remove Key from Ignition

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 Seed Control Unit while it is moving. Keep hands, feet and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

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

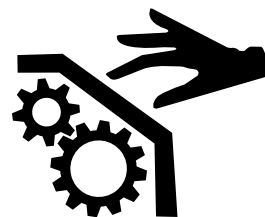
Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil or debris.

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



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 Seed Control Unit when it is running.



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 braid 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 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 Seed Control Unit 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

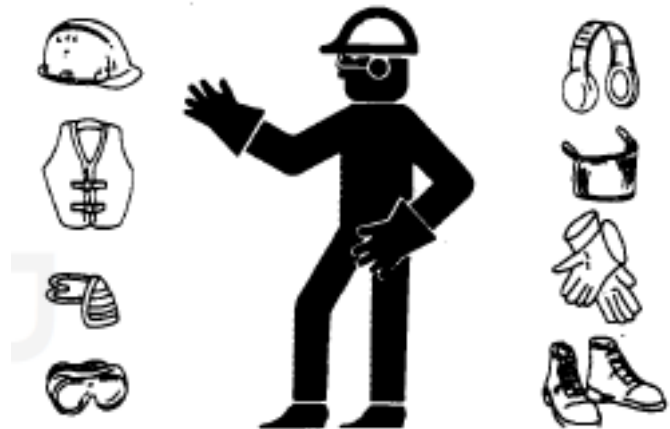


0.15 Personal Protective Equipment (PPE)

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.

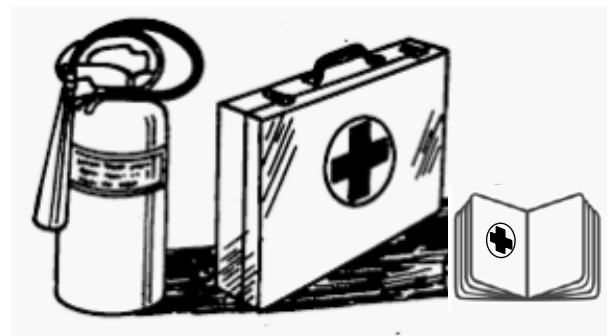


0.17 Prepare for Emergencies

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.



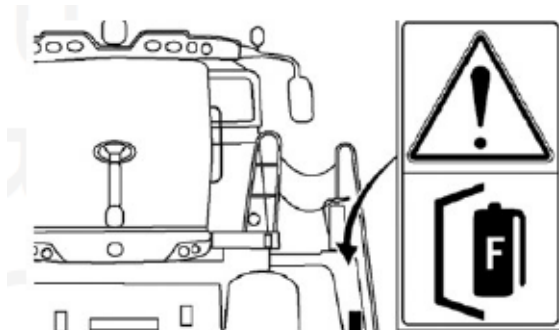
0.18 Fire Extinguisher

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!

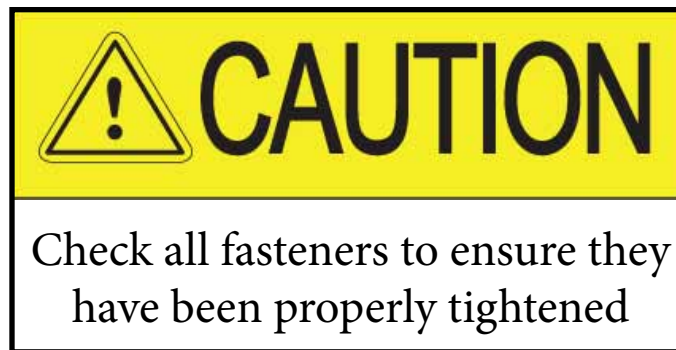
If a fire is too far advanced, do not try to extinguish it. Call the fire department! DO NOT RETURN TO THE FIRE! The number one priority is safety. Always put the safety of the operator and bystanders first.

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)



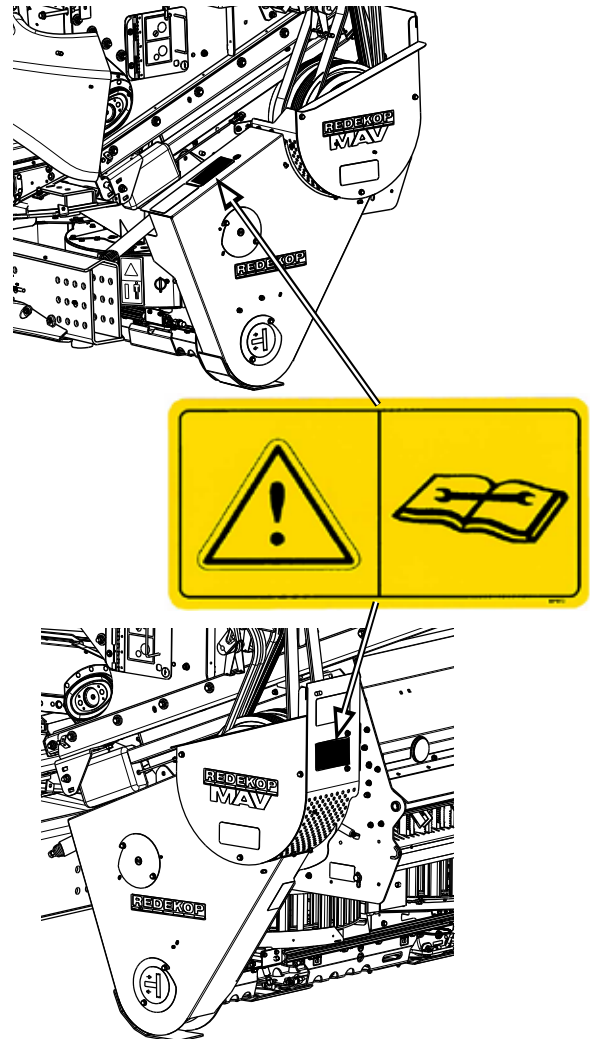
0.21 Safety Decals

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.

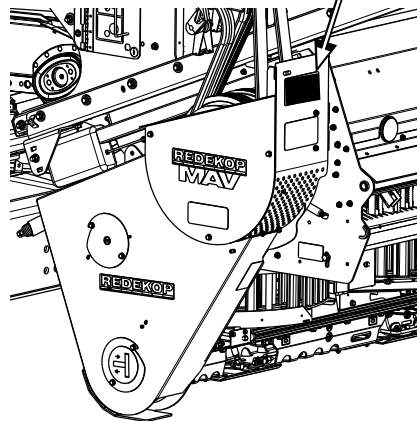
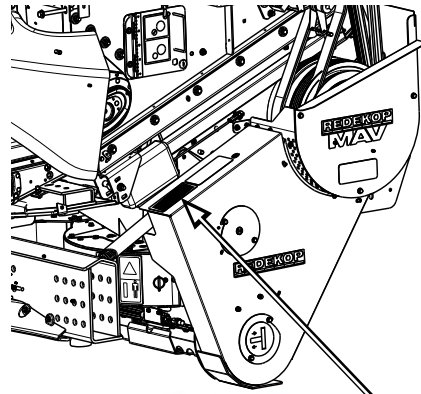
Caution / Check Service Manual RP873

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



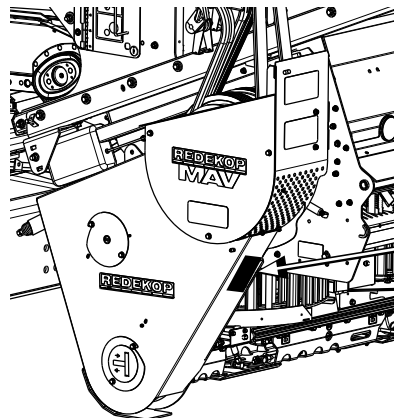
**Keep Hands out of Belt Area / Rotate Danger
RP874**

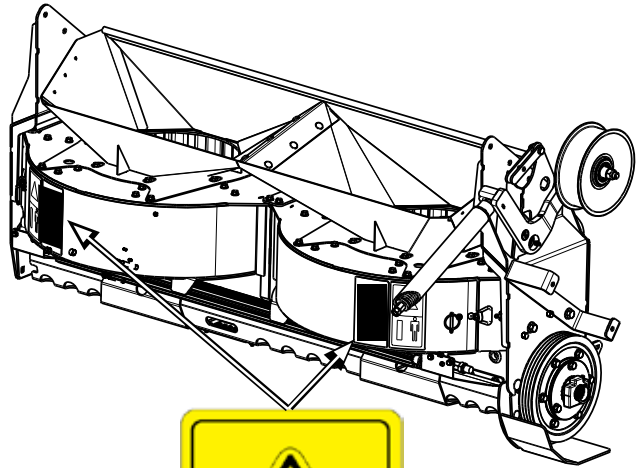
Do not touch any moving parts. Wait until all moving parts have stopped.



**Caution / Hearing Protection Required
RP1090**

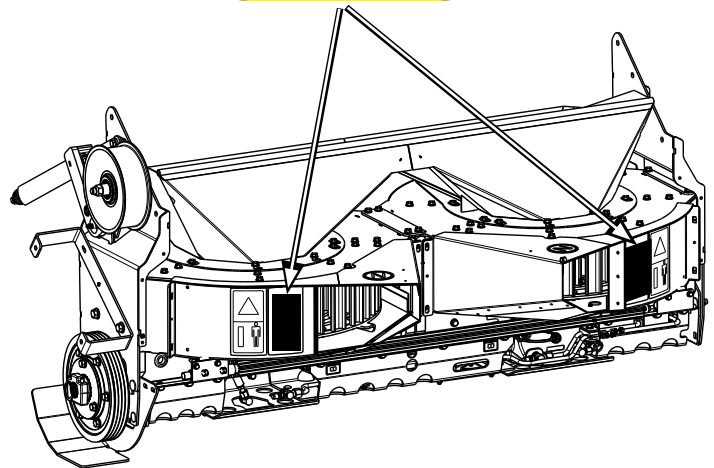
Use hearing protection whenever operating the machine.

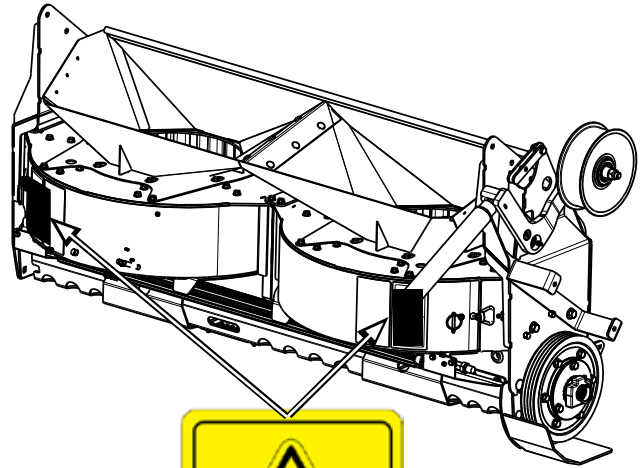




**Hand Injury / Rotate Danger
RP1089**

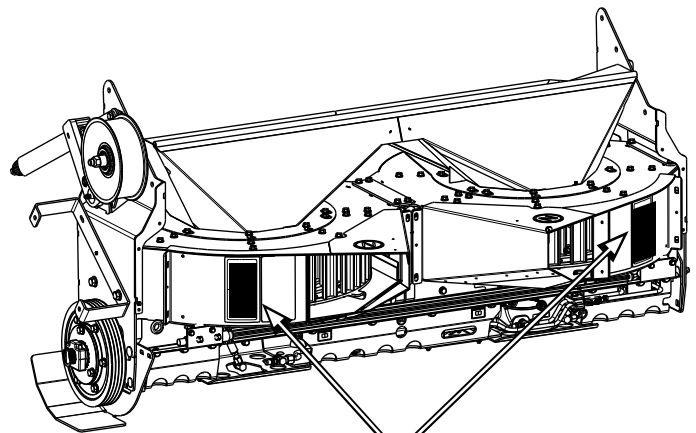
Risk of injury caused by rotating parts.





Kickback Hazard / Stand Clear
RP1086

Avoid personal injury. Kickback hazard when removing access panel.



Projectile Hazard / Stand Clear
RP872

Stay clear of these components when the engine is running.



0.22 Information Decals

Redekop Seed Control Unit Serial Number Plate



Grease Every 12 Hours

RP1091



Grease Every 50 Hours

RP1092



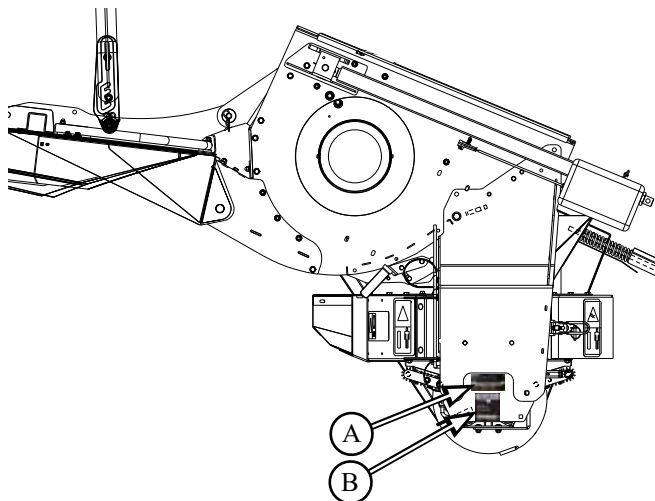
Oil - use SAE 75W90 GL5 Synthetic

RP1093



0.23 Serial Number

1. Deere Seed Control Unit serial number (A):
- located on the Seed Control Unit frame, non-drive side
2. Redekop Seed Control Unit serial number (B):
- located on the Seed Control Unit frame, non-drive side



Overview of Installation of SCU

This SCU kit is to be installed on a John Deere S-Series combine with a Redekop straw chopper that is prepared for the SCU.

Installation of these components needs to be co-ordinated with the installation of the Redekop MAV Straw Chopper if not already installed

Installation Sequence:

- 1 Prepare hydraulics on combine
- 2 OEM chopper drive modification
- 3 Chopper chaff door installation
- 5 Upper combine drive installation
- 6 Remove OEM tailboard from chopper
- 7 Remove OEM chopper from combine
- 8 Modify drive on chopper for SCU
- 9 Beater extension installation
- 10 Rake tine installation
- 11 Sieve extension installation
- 12 Fin cover plate installation
- 13 Vent cover and door installation
- 14 Screen cover plate installation
- 15 Internal SCU baffle installation
- 16 Redekop chopper installation
- 17 Drive belt installation
- 18 SCU installation
- 19 Shield installation
- 20 Rear tire clearance
- 21 Tailboard fin installation
- 22 ECU installation
- 23 Harness installation
- 24 Tablet installation
- 25 Combine software configuration

Terminology / Abbreviations

The following abbreviations will be used in this manual

SCU = Seed Control Unit

FC = Fine Cut Chopper (does not refer to the MAV chopper, but to the OEM chopper)

XFC = Extra Fine Cut Chopper (does not refer to the MAV chopper, but to the OEM chopper)

TB = Tailboard

VTB = Vane Tailboard

PC = Power Cast

APC = Advanced Power Cast

PVTB = Premium Vane Tailboard

EU = Europe

1 Straw Chopper Preparation

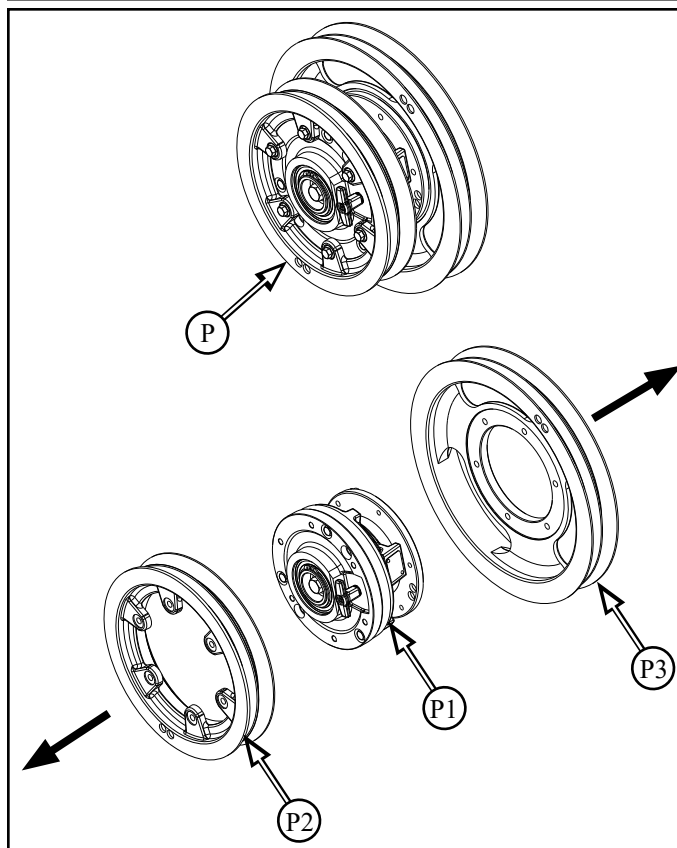
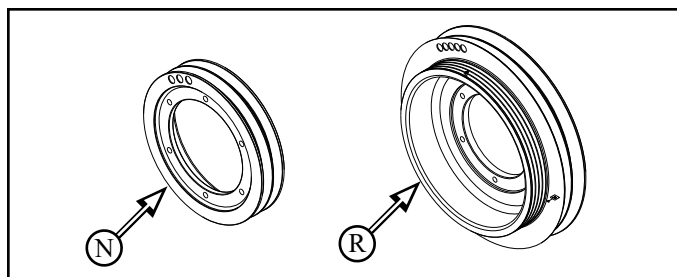
1.1 Chopper Drive Installation - On combines with the OEM Dual Belt/Shifter, Fine Cut Chopper (FC)

Parts List:

RP968	Sheave SC JD S-Series Driver (N)	Qty 1
RP1154	Sheave 2C 4PVM SCU JDS (R)	Qty 1

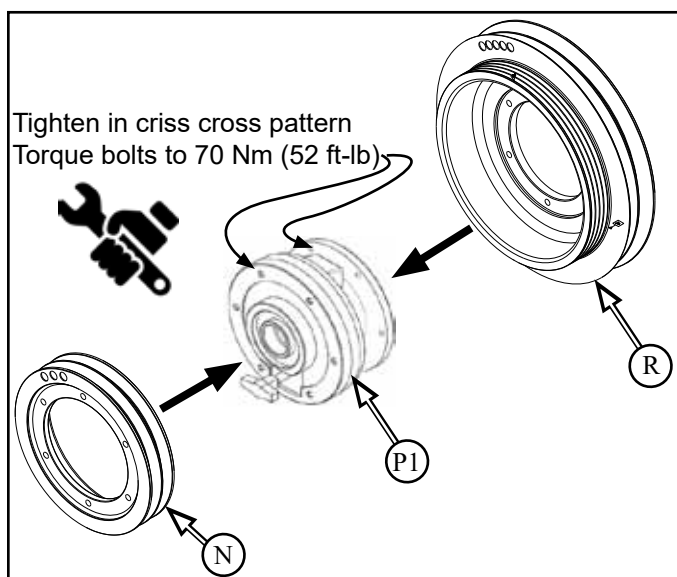
1.1.1 Remove from Deere speed shifter assembly (P):

- high speed sheave (P2) (small diameter sheave)
- slow speed sheave (P3) (large diameter sheave)
- hardware to be reused



1.1.2 Attach to Deere speed shifter (P1):

- new slow speed drive pulley (R) to back
- new high speed drive pulley (N) to front
- reuse M10 x 35 flange bolts qty 12
- tighten in a criss cross pattern
- torque bolts to 70 Nm (52 ft-lb)

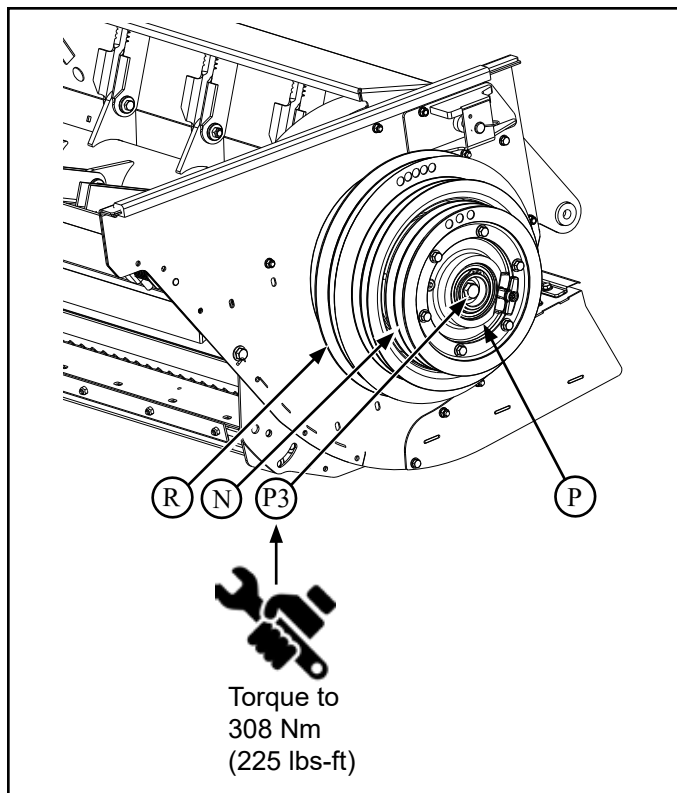


1.1.3 Install Deere speed shifter (**P**) assembled with slow (**R**) and high speed drive (**N**) pulley onto chopper drive shaft with:

- reuse M16 x 60 flange bolt and washer (**P3**)



Block Chopper Rotor rotation and
Torque Bolt (**P3**) to 308 Nm (225 lbs-ft)

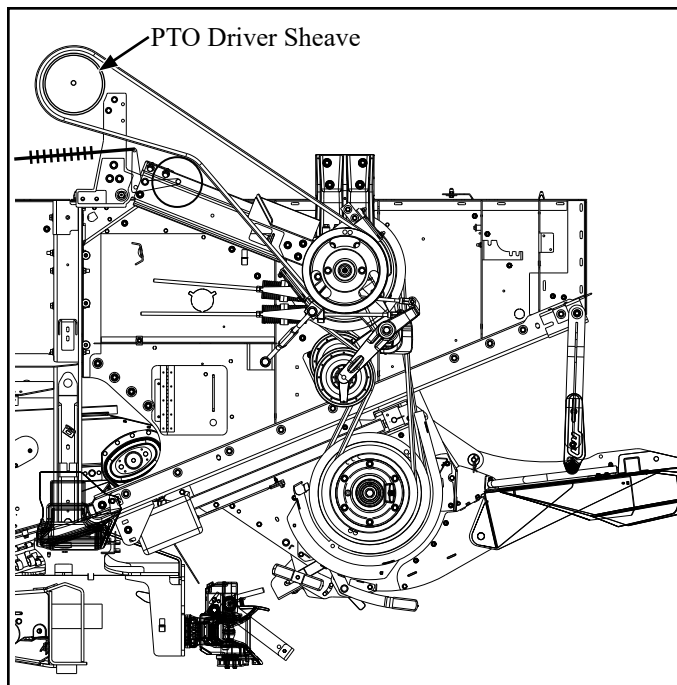


1.1.4 OEM Chopper Drive Modification On Combine with 3-Rib Chopper Jackshaft Belt Only

Section 1.1.4 may be REQUIRED FOR FC Choppers on S660, S670, S760 & S770 Series



Check PTO driver sheave - ensure 4 grooves,
otherwise order part #RP1764 from Redekop.
Installing the 4 groove sheave is done at own
risk and may impact factory warranties.



XFC OEM Chopper Drives Only (If combine original OEM chopper was XFC):

Parts List:

RP1148 Sheave SCU 3M/4M (S)

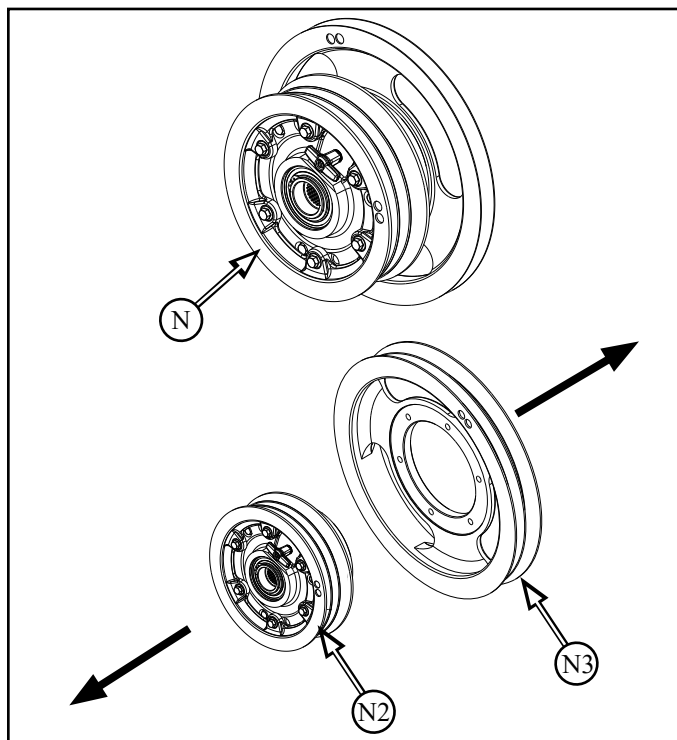
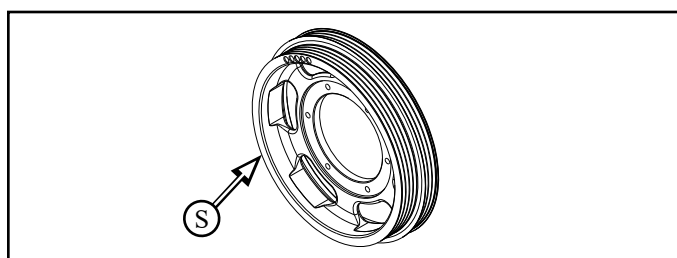
Qty 1

1.1.5 Remove from Deere speed shifter assembly (N):

- slow speed sheave (N3) (large diameter sheave)
- hardware (N1) to be reused

1.1.5.1 Attach to Deere speed shifter hub (N2):

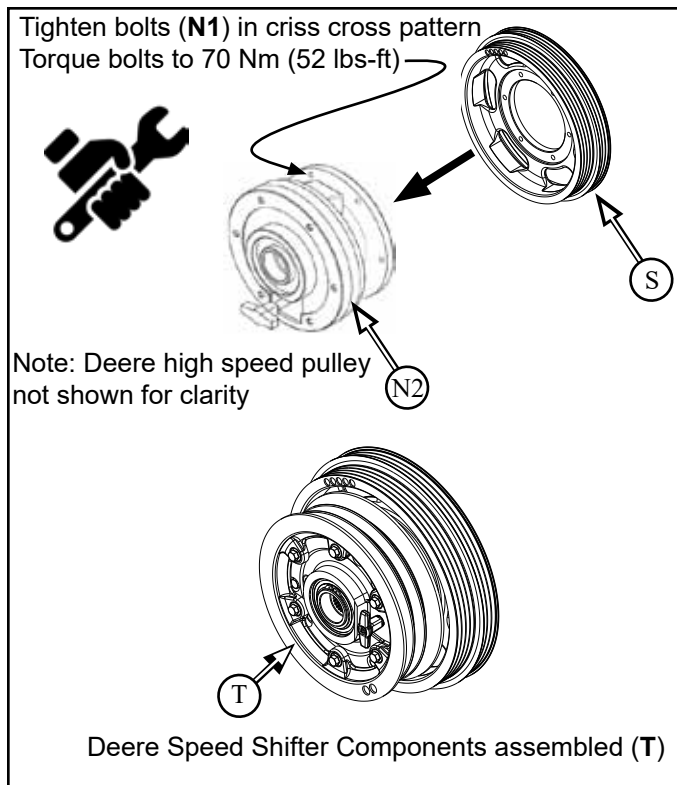
- new slow speed drive pulley (S) to back
- reuse M10 x 35 flange bolts (N1) qty 6
- tighten in a criss cross pattern
- torque bolts to 70 Nm (52 lbs-ft)



Tighten bolts (N1) in criss cross pattern
Torque bolts to 70 Nm (52 lbs-ft)



Note: Deere high speed pulley
not shown for clarity



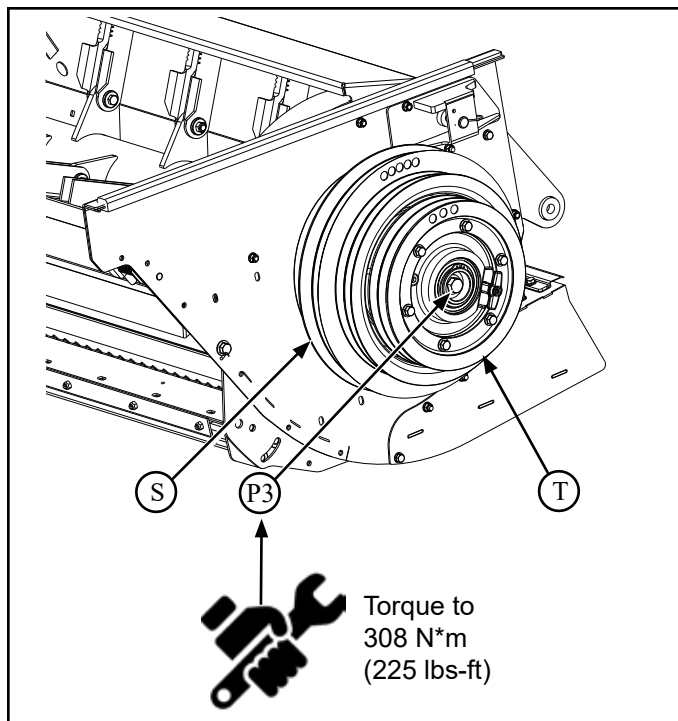
Deere Speed Shifter Components assembled (T)

1.1.5.2 Install Deere speed shifter assembly (**T**) onto chopper drive shaft with:

- reuse M16 x 60 flange bolt and washer (**P3**)



Block Chopper Rotor rotation and
Torque Bolt (**P3**) to 308 Nm (225 lbs-ft)



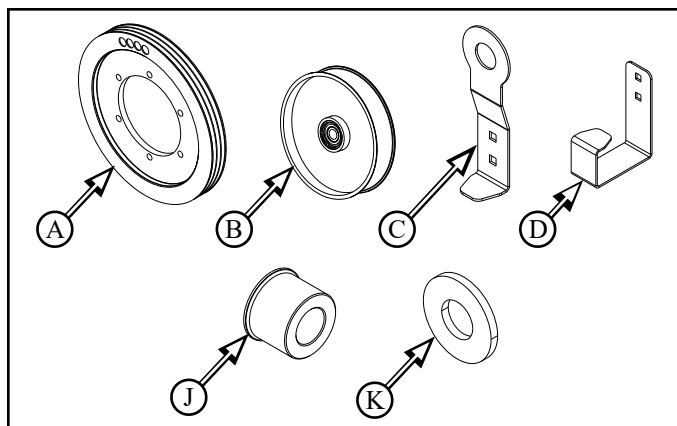
1.2 Jackshaft Modification

XFC OEM Chopper Drive Only:

Parts List:

RP1147 Sheave Jackshaft 3M - slow speed (A)	Qty 1
SC478-01 Idler 8pd 2.0W 30mm ID (B)	Qty 1
SC198G Inside Scraper (C)	Qty 1
SC199G Outside Scraper (D)	Qty 1
SC479Z Bushing Idler (J)	Qty 1
SC481Z Washer 35.5 OD 3.416 Thk (K)	Qty 1

SC447S Bag Hdw XFC Drive

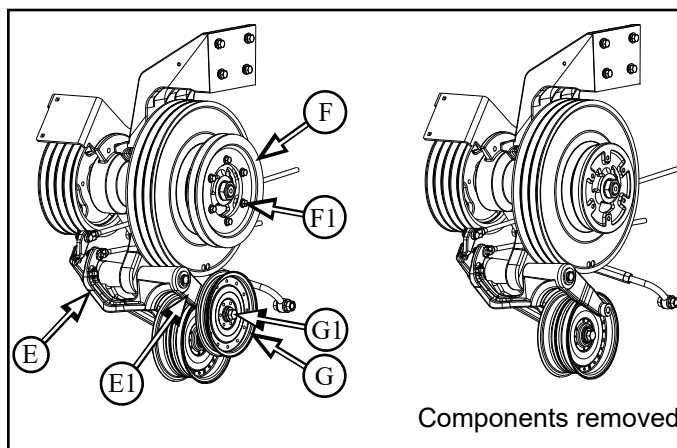


1.2.1 Remove the slow speed pulley (F) from the chopper jackshaft (E)

- pulley (F) not to be reused
- hardware (F1) to be reused

1.2.2 Remove the idler (G) on the tensioner arm (E1) for the slow speed belt on the chopper jackshaft (E)

- idler (G) and bolt (G1) not to be reused
- tensioner arm (E1) is threaded so there is no nut

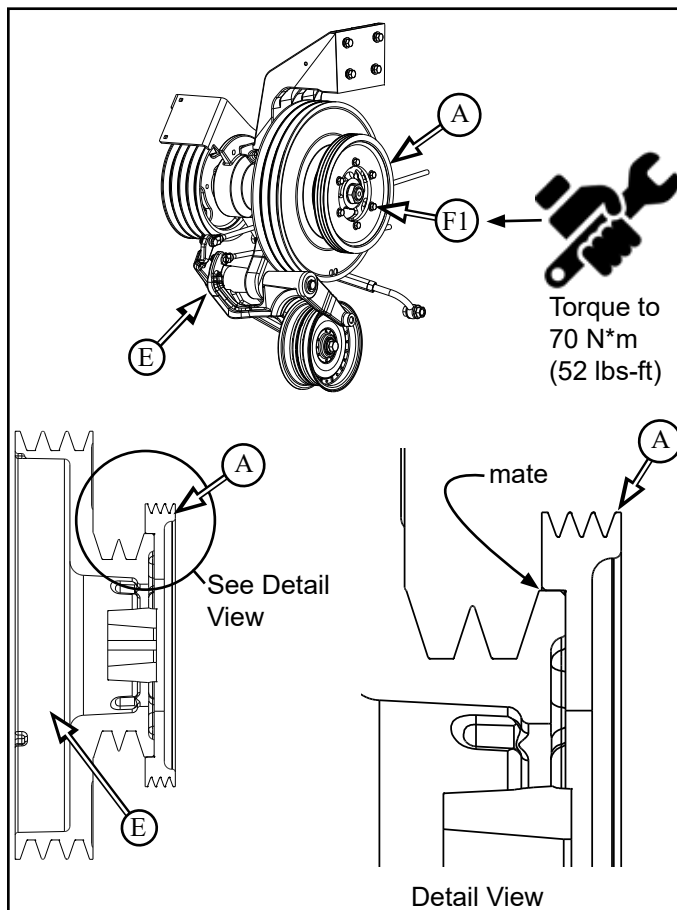


1.2.3 Install the 3M slow speed Jackshaft sheave (A) onto the chopper jackshaft (E)



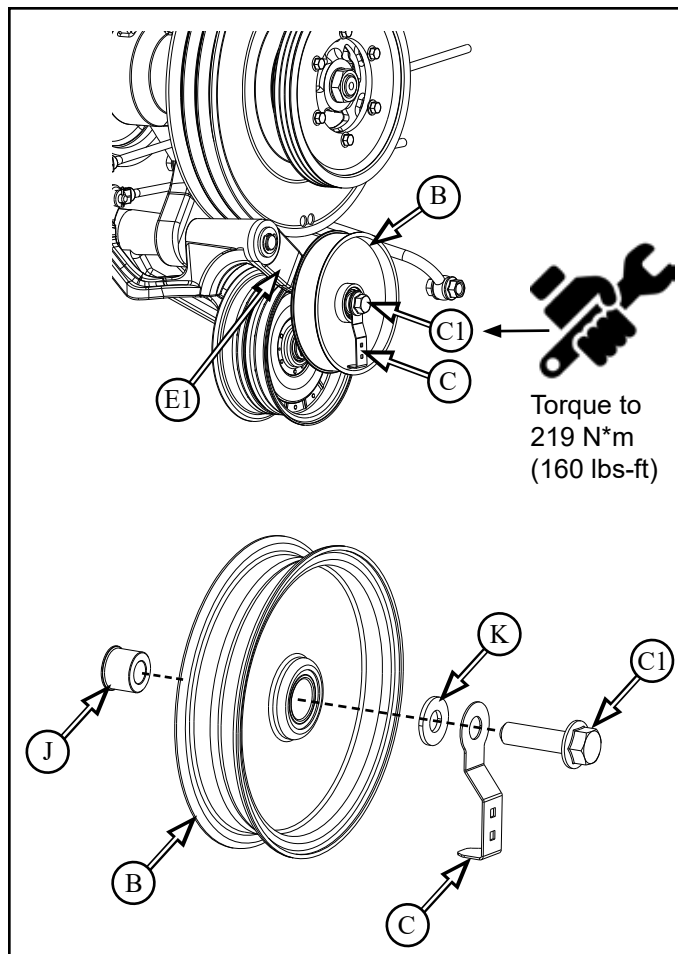
- ensure sheave is mated onto jackshaft as shown

- reuse M10 x 25 bolts (F1) x6
- torque bolts to 70 Nm (52 lbs-ft)



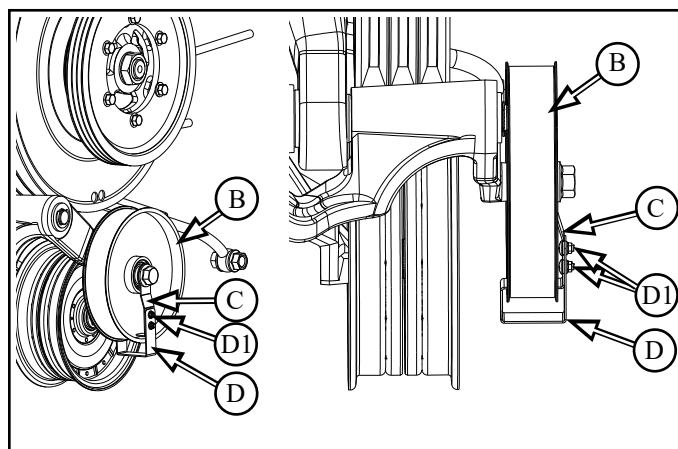
1.2.4 Install the idler (**B**) onto the tension arm (**E1**):

- slide bushing (**J**) into idler (**B**)
- washer (**K**)
- inside scraper (**C**)
- M16 x 60 flange bolt (**C1**)
- torque to 219 Nm (160 lbs-ft)



1.2.5 Install the outside scraper (**D**) to the inside scraper (**C**) with:

- M6 x 16 round head bolts and flange nuts (**D1**) x2



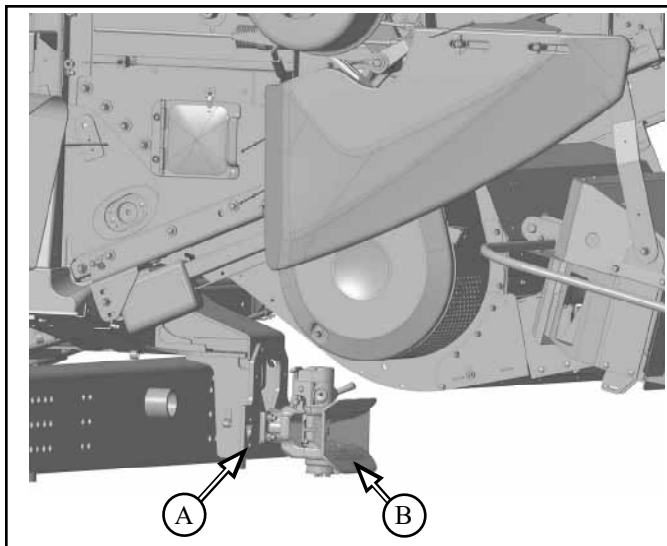
1.3 Drive Installation - On combines with the OEM Single Belt, Fine Cut Chopper (FC)

1.3.1 For OEM single belt drive combines, sheave is already installed with the MAV chopper

1.4 OEM Hitch Modification S-Series

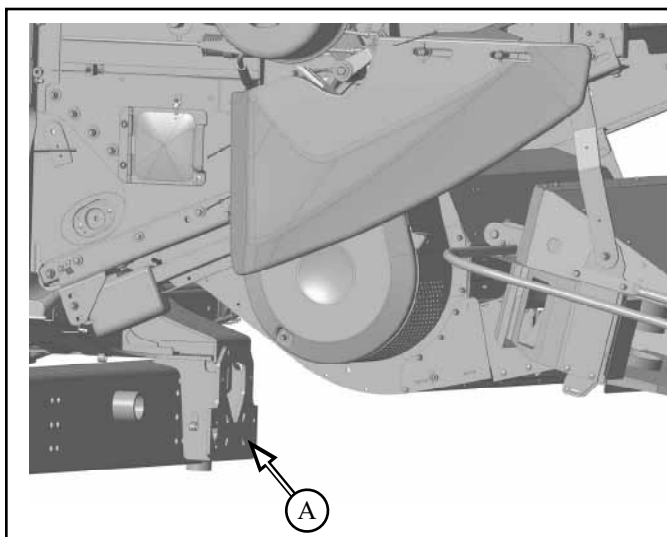
Rear hitch plate on some S-Series combines may need to be modified in order for the SCU to fit and

1.4.1 Remove the hitch receiver (B) from the hitch plate (A)
- disconnect any electrical harnesses and components from receiver



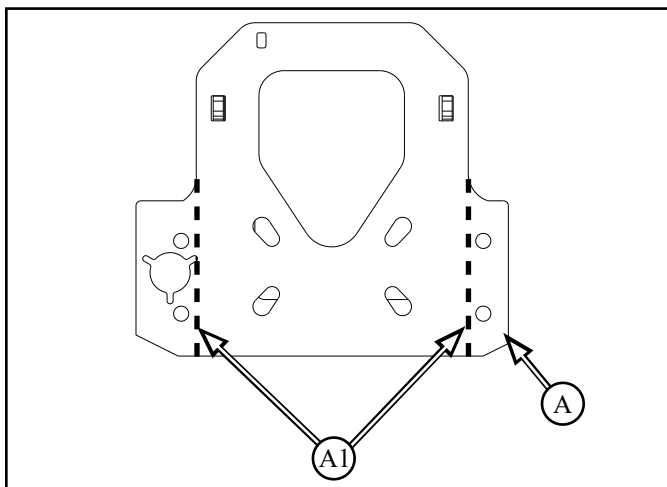
View with the hitch receiver (B) removed

1.4.2 Disconnect any electrical harnesses and components from hitch plate



1.4.3 Mark line (A1) x2 to be cut on hitch plate (A)
- align with top edge of plate

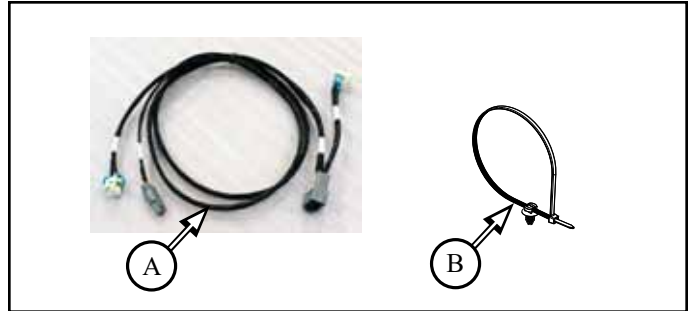
1.4.4 Cut tabs off of hitch plate along lines (A1) x2



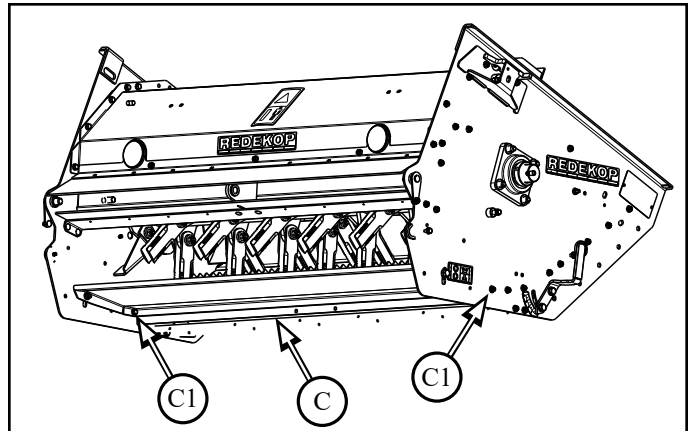
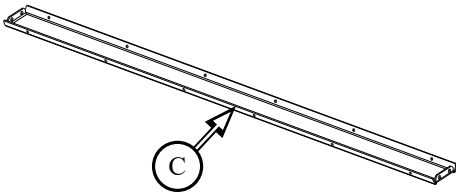
1.5 Tailboard Actuator Harness Installation

Parts List:

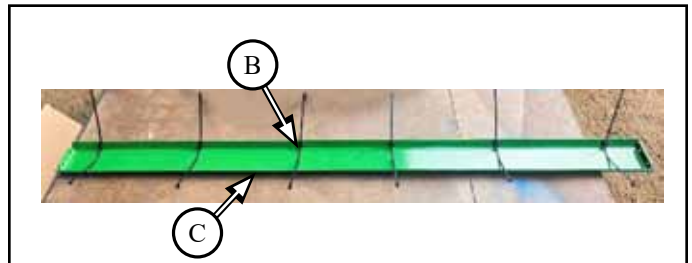
RP1061 Harness Actuator/Tailboard (A)	Qty 1
- for Tailboard Control option	
87741307 Zip Tie with fir tree (B)	Qty 6



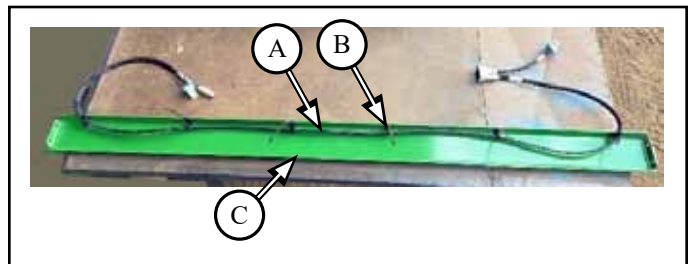
- 1.5.1** Remove knifebar guard (C) from underneath of MAV chopper
- to be reinstalled
 - mounting hardware (C1) x4 to be reused



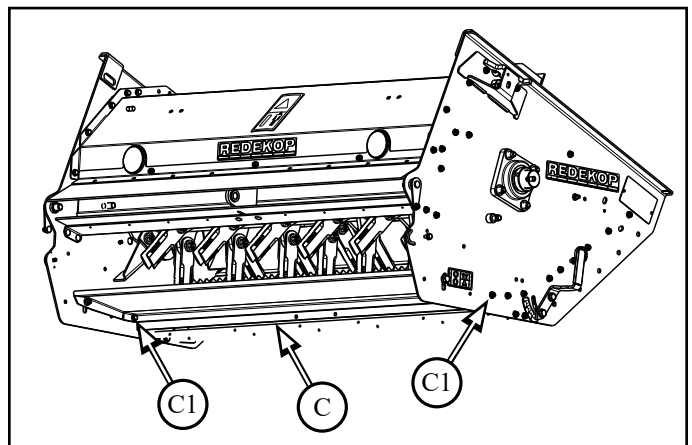
- 1.5.2** Insert fir tree of zip tie (B) x6 into hole on inside of guard (C)
- one side only



- 1.5.3** Place harness (A) within the zip ties (B)
- keep loose



- 1.5.4** Reinstall knifebar guard (C) with harness (A) to underside of MAV chopper, with
- reuse mounting hardware (C1) x4

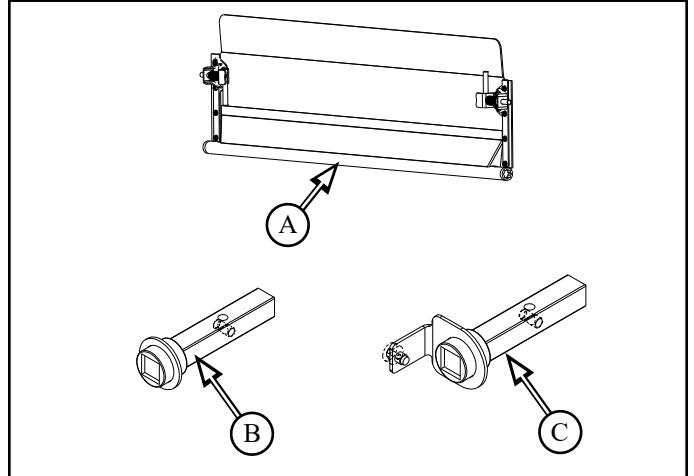


1.6 Chaff Door Installation

Parts List:

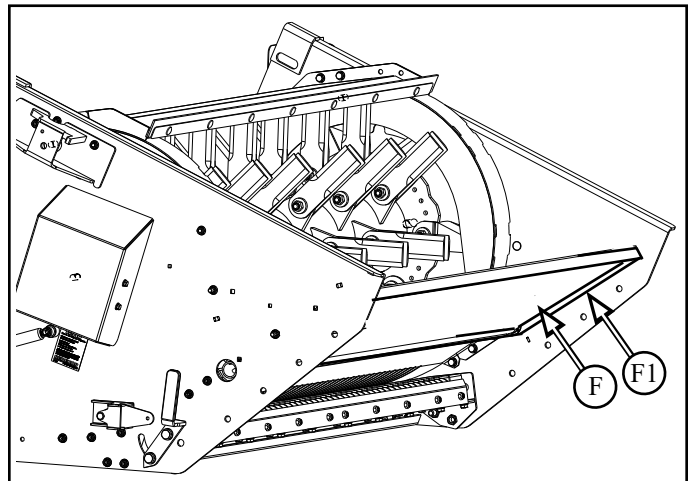
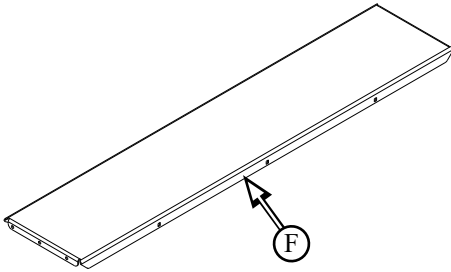
CD1041GA	Chaff Door Assy (A)	Qty 1
SC1645Z	Chopper Door Pivot Pin (B)	Qty 1
SC1644ZA	Chaff Door Pin with Prox Sensor (C)	Qty 1

SC445S Bag Hdw Door Mount



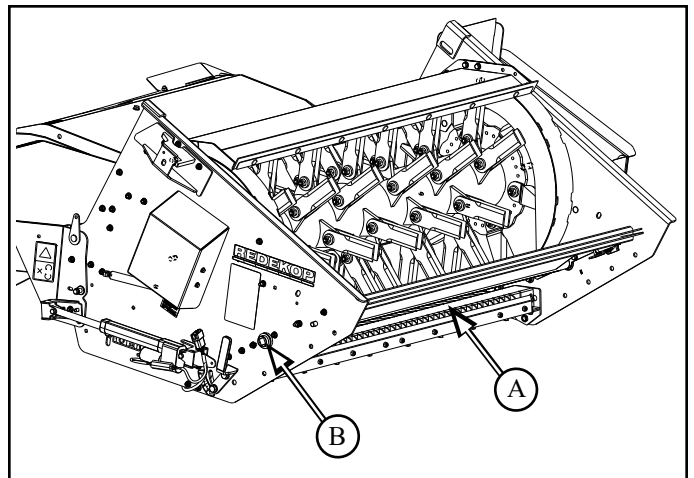
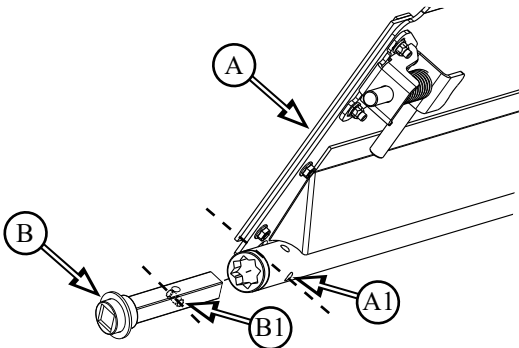
1.6.1 Remove chaff panel (F) from chopper

- Not to be reused
- mounting hardware (F1) not to be reused



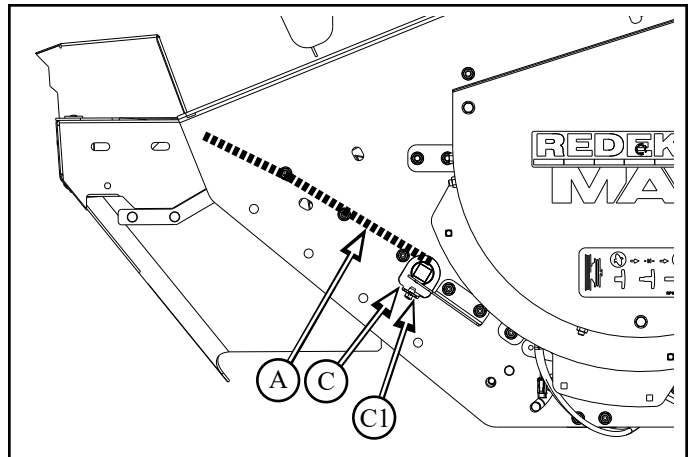
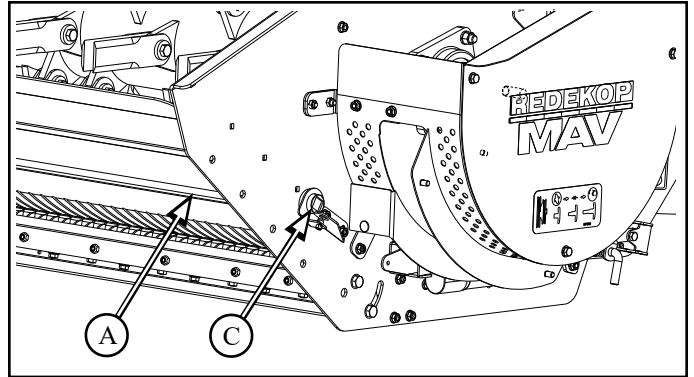
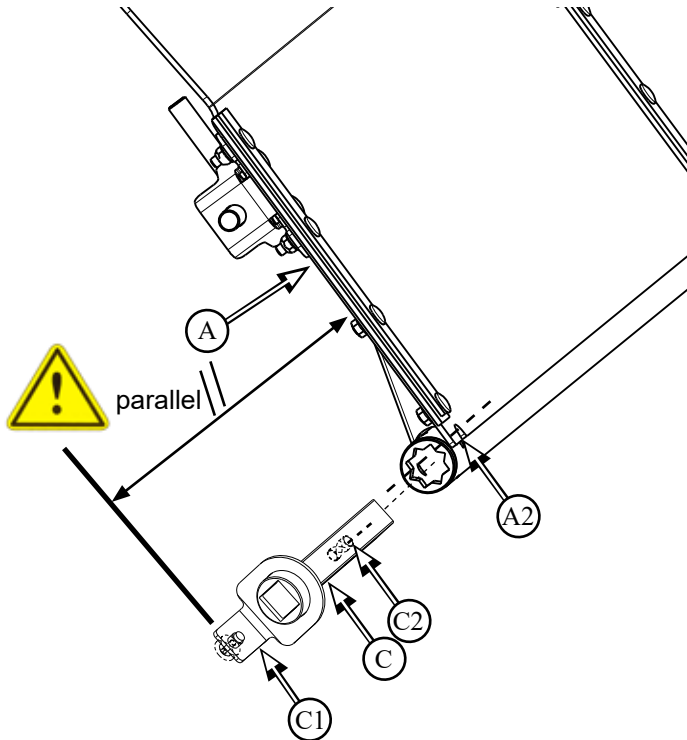
1.6.2 Install chaff door assy (A) and secure thru bottom pivot tube to right side of chopper, with:

- Chaff door pivot pin (B) thru outside wall
- ensure threaded hole (B1) in pivot pin (B) is aligned with hole (A1) perpendicular to the door panel (A)



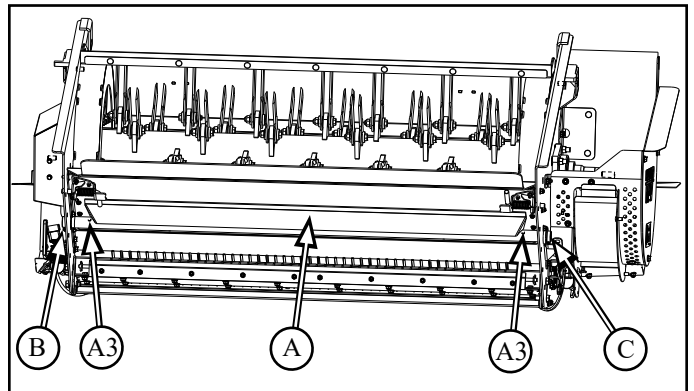
1.6.2.1 Secure chaff door assy (A) thru bottom pivot tube to left side of chopper, with:

- Chaff door pin (C) with sensor tab (C1) thru outside wall
- ensure threaded hole (C2) in door pin (C) is aligned with hole (A2) perpendicular to the door panel (A) and sensor tab (C1) is parallel to door panel (A)

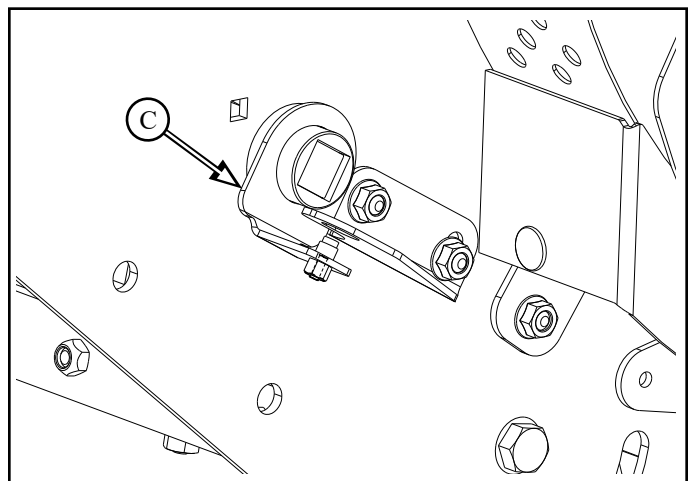


1.6.3 Secure chaff door pins (B & C) into door (A) with:

- M8 x 30 round allen head bolt (A3) x2
- ensure head of bolt is on inside of chopper



1.6.4 View with chaff door pin with proximity sensor (C) installed

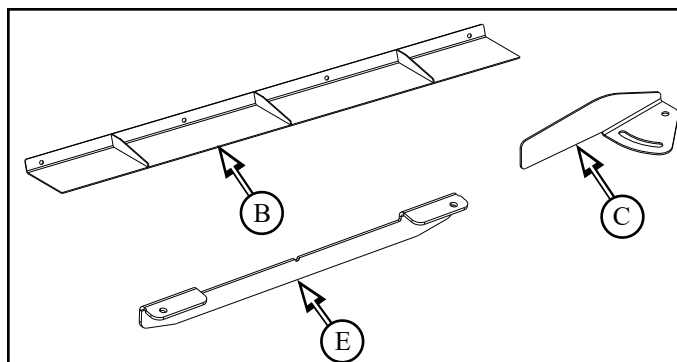


2 Seed Control Unit Installation

2.1 Beater Extension Installation

Parts List:

SC200G	Beater Extension JD Series (B)	Qty 1
SC1646G	Fin Beater S-Series (C)	Qty 2
SC433G	Straw Divider Mount Bracket (E)	Qty 1
SC442S	Bag Hdw SCU Common	Qty 1



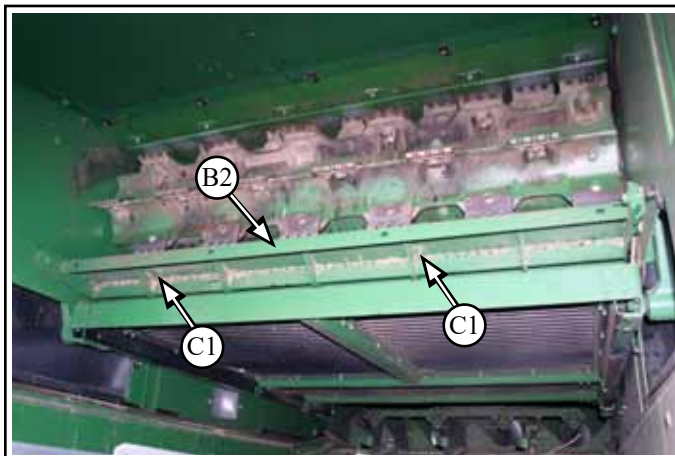
Beater extension is only required on Combines without Overshot Beater Option



2.1.1 Adjust combine sieves so they are laying flat in order to prevent damage when installing the beater components. Place board ovetop of sieves, avoid damage to louvers



2.1.2 Remove existing M10 x 25 round head bolt and flange nuts **(C1)** x4 from existing beater plate

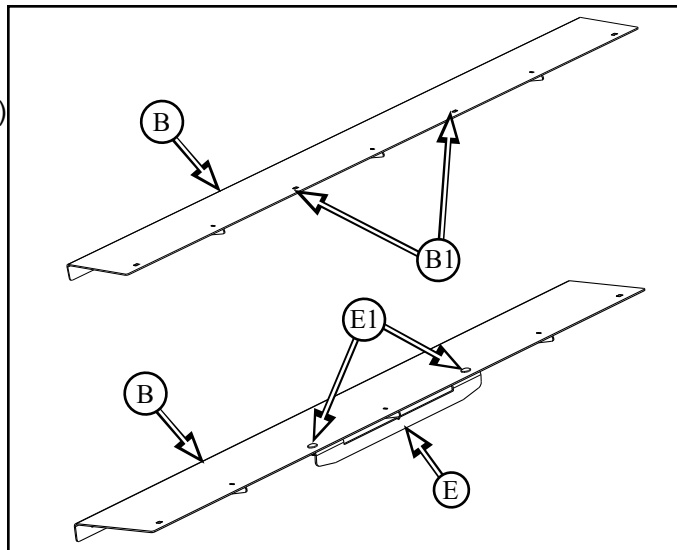


If Straw Tine Deflector Kit (optional) is being installed, skip this step 2.1.3 and 2.1.3.1

2.1.3 Punch out the two center pre-cut knockout holes (**B1**) on the beater extension (**B**)

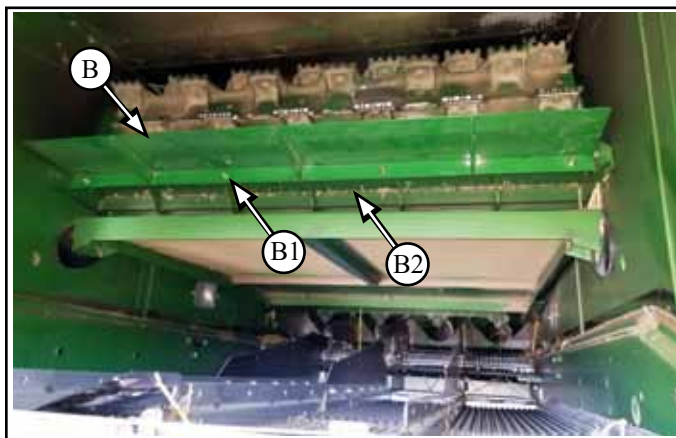
2.1.3.1 Install straw divider mount bracket (**E**) to underside of beater extension (**B**) through knock out holes, with:

- M8 x 16 round head bolt and flange nut (**E1**) x2
- ensure head of bolt is on top side of extension (**B**)



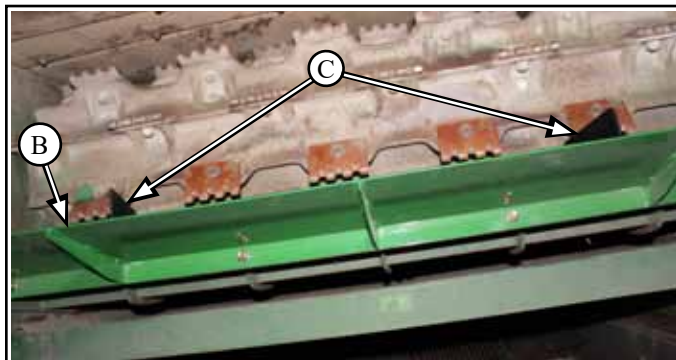
2.1.4 Install beater extension (**B**) to beater plate (**B2**) - flat surface up, with:

- M10 x 20 flange bolts and flange nuts (**B1**) x4



2.1.5 Install beater fins (**C**) x2 onto top of factory beater plate (**B2**) one on each end, with:

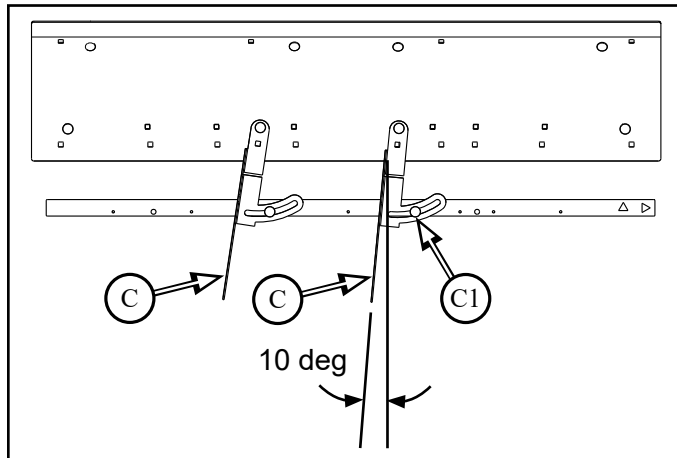
- reuse existing M10 x 25 round head bolt and flange nut hardware (**C1**) x4



2.1.6 Aim both deflectors (**CR**) approximately 10 degrees to the left (to rear left corner of chopper)

2.1.7 Secure deflectors (**C**) in place with:

- M10 x 45 round head bolt and locknut (**C1**) or reuse hardware in matching hole



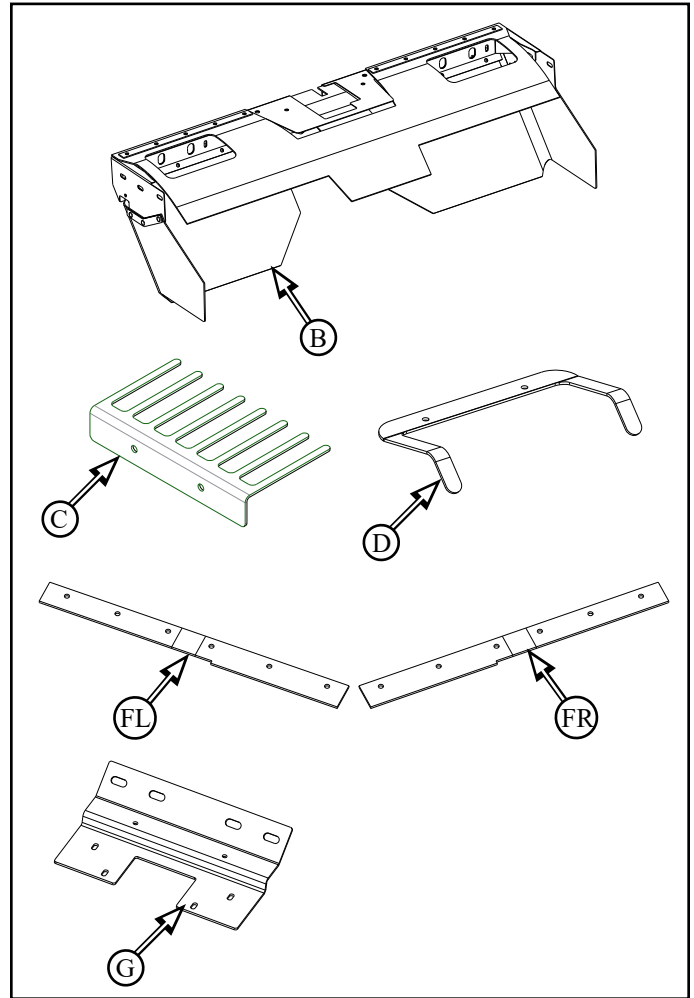
2.1.8 Tighten all hardware for all components

2.2 Sieve Extension Installation

Parts List:

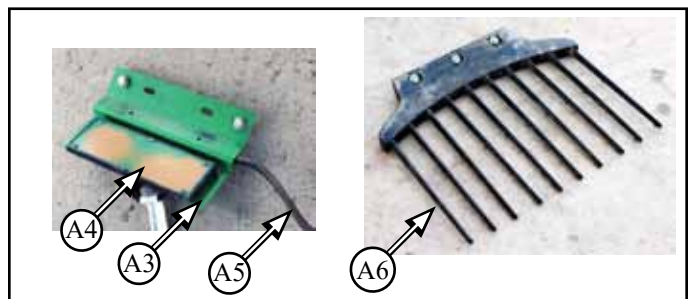
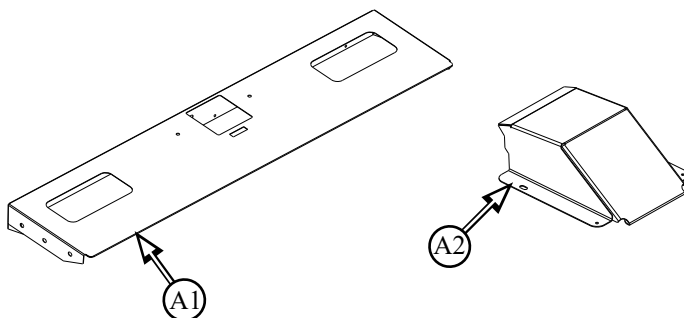
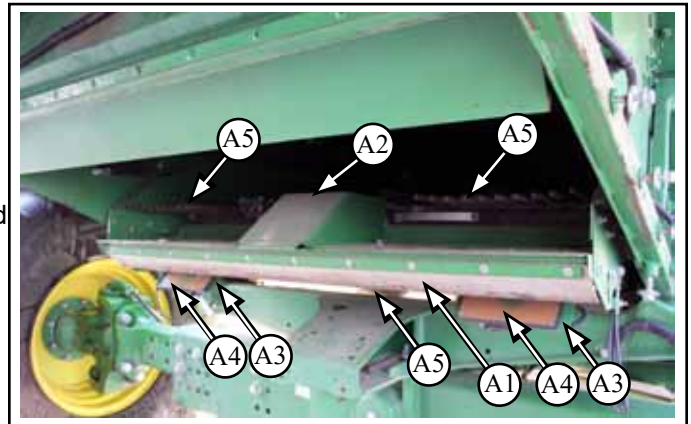
SC269GA Sieve Extension Assy SCU JDS (B)	Qty 1
SC283G Deflector Seed Loss SCU JD S-Series (C)	Qty 2
CD691G Gaurd Grain Loss JDS (D)	Qty 2
SC388-01L Sieve Seal (FL) (700 S only)	Qty 1
SC388-01R Sieve Seal (FR) (700 S only)	Qty 1
CD1077G Grain Loss Sensor Mt Bracket (G)	Qty 2

SC442S Bag Hdw SCU Common

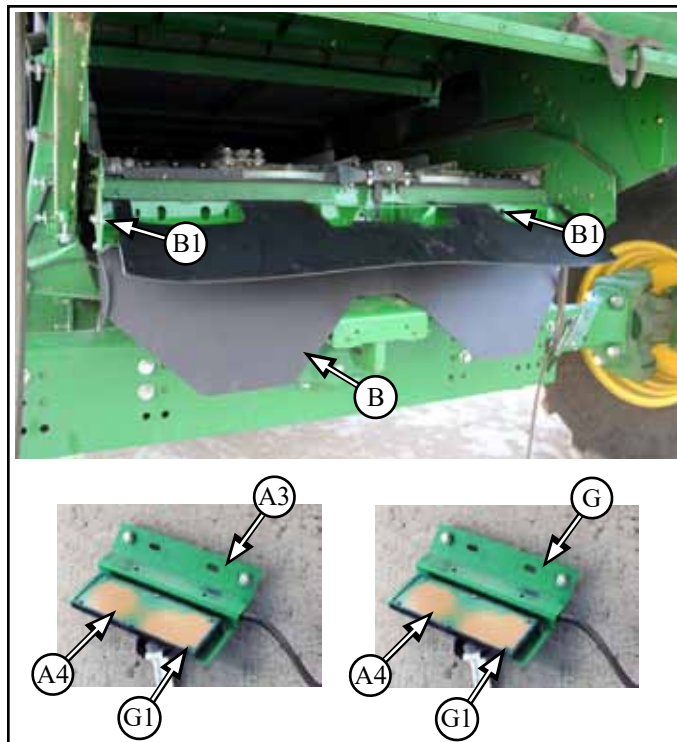


2.2.1 Remove from combine:

- sieve actuator cover (**A2**) - discard
- seed loss deflectors (**A6**) - discard
- sieve extension (**A1**) - discard
- sensor mounting plate (**A3**) - discard
- sensor (**A4**) with harness (**A5**) - to be reused
- harness (**A5**) - disconnect from sensor plates, to be reused
- hardware to be reused



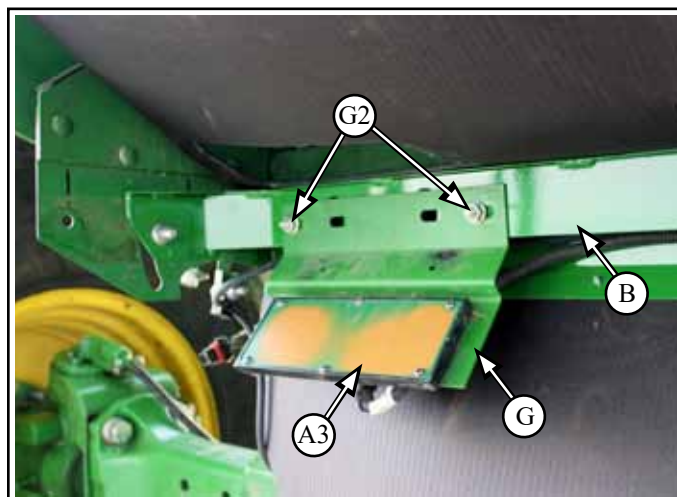
- 2.2.2** Install new sieve extension assembly (**B**) behind and below combine sieve, mount to side plates and rear mount plate:
- reuse existing hardware (**B1**)
 - note - all hardware may not be reused depending on combine model and mount plate



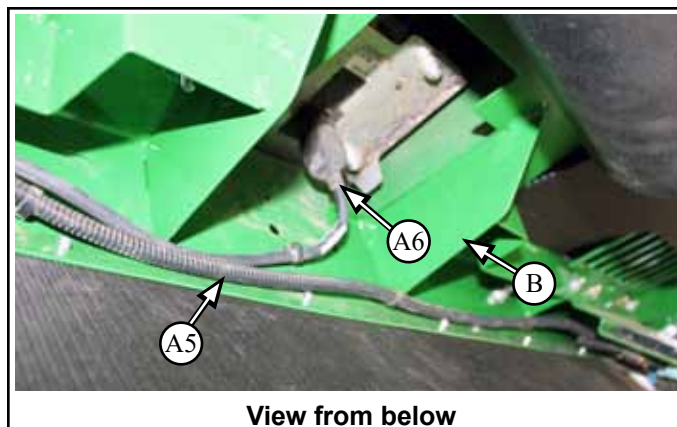
- 2.2.3** Remove sensor (**A4**) and harness (**A5**) from sensor mounting plate (**A3**) x2
- sensor and harness to be reused
 - discard sensor mounting plate
 - hardware to be reused

- 2.2.3.1** Install sensor (**A3**) and harness (**A5**) to new sensor mounting plate (**G**), with:
- reuse existing hardware (**G1**)

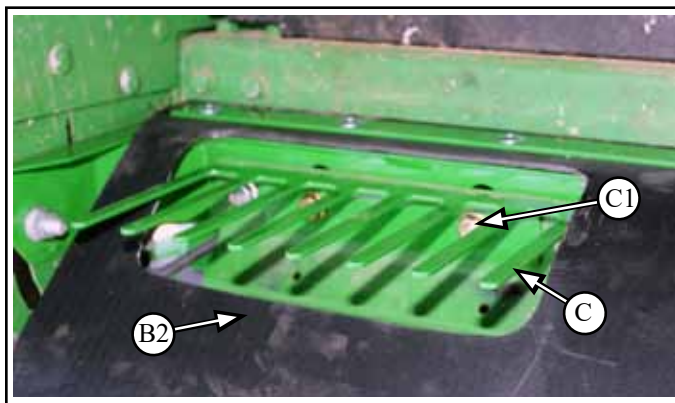
- 2.2.3.2** Install sensor plates (**G**) to their relative location on the new sieve extension (**B**) with:
- reuse existing hardware (**G2**)
 - both sides



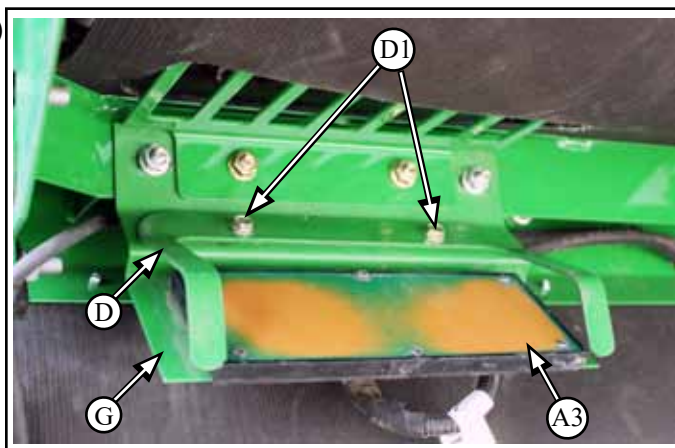
- 2.2.3.3** Reattach harnesses (**A5**) for seed loss monitor to sieve extension (**B**) and to sieve actuator (**A6**)



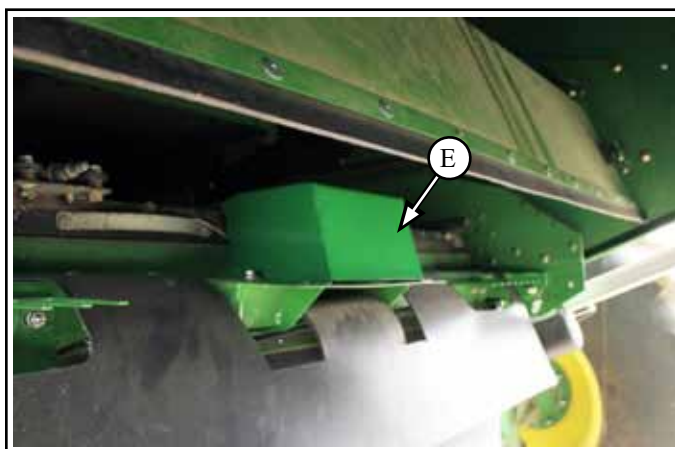
- 2.2.4** Install seed loss deflector plates (**C**) onto seed loss sensor mount plates (**G**):
- reuse existing hardware (**C1**)
 - ensure deflector plates are above the rubber (**B2**)
 - both sides



- 2.2.5** Install grain loss guard (**D**) centered over sensor (**A3**) onto sensor mounting plate (**G**) with:
- M6 x 20 flange bolt and flange nut (**D1**) x2
 - both sides



- 2.2.6** Install new sieve actuator cover (**E**)
- reuse existing hardware



---- S600 Series MY17+ ----

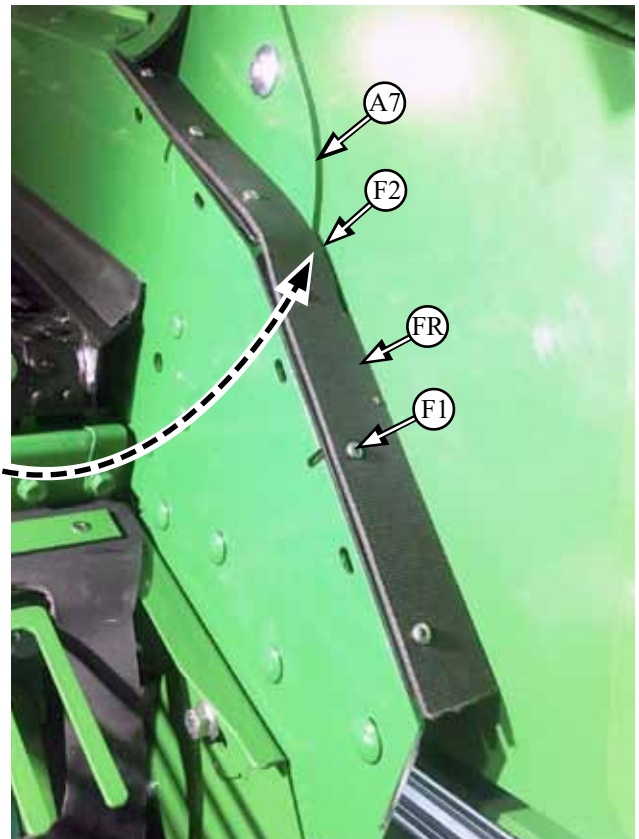
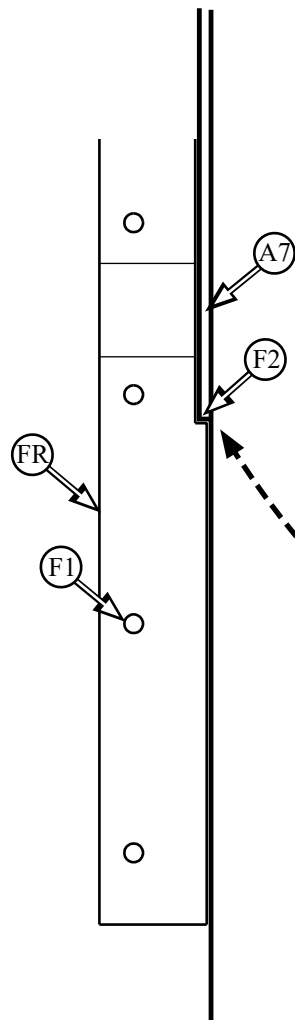
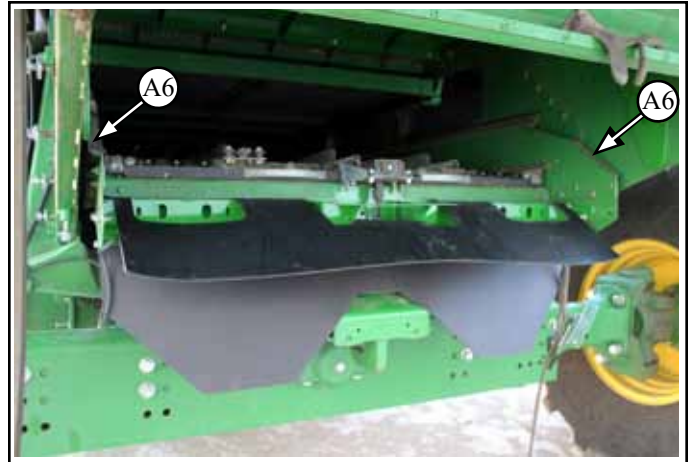
---- S700 Series ----

2.2.7 Install sieve seal (FR) to plastic (A6) on sieve right side wall with:

- #8 x .75 self tapping screw (F1) x6
- rubber side up
- push seal tight to side wall
- ensure step (F2) in seal goes around sidewall plate (A7)



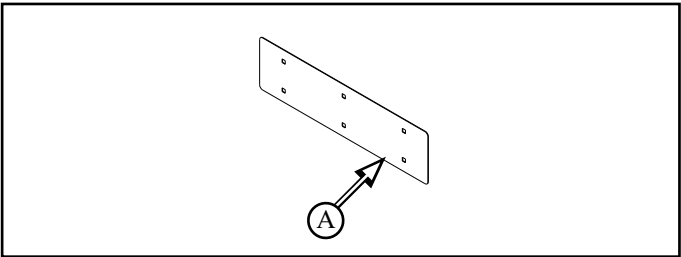
2.2.7.1 Repeat for left side



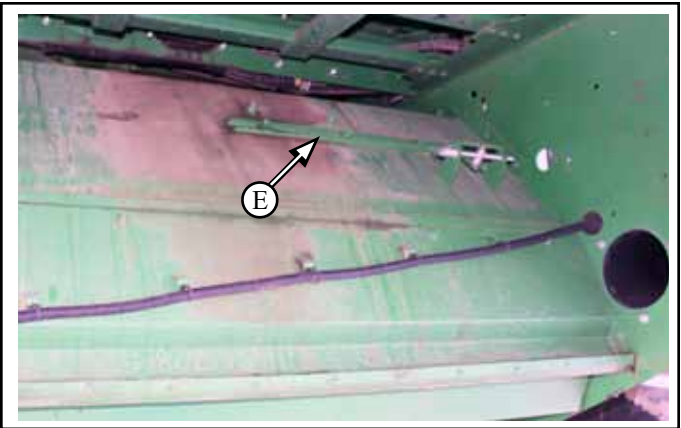
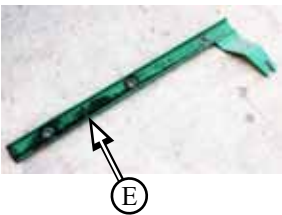
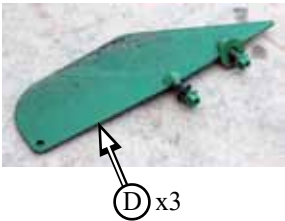
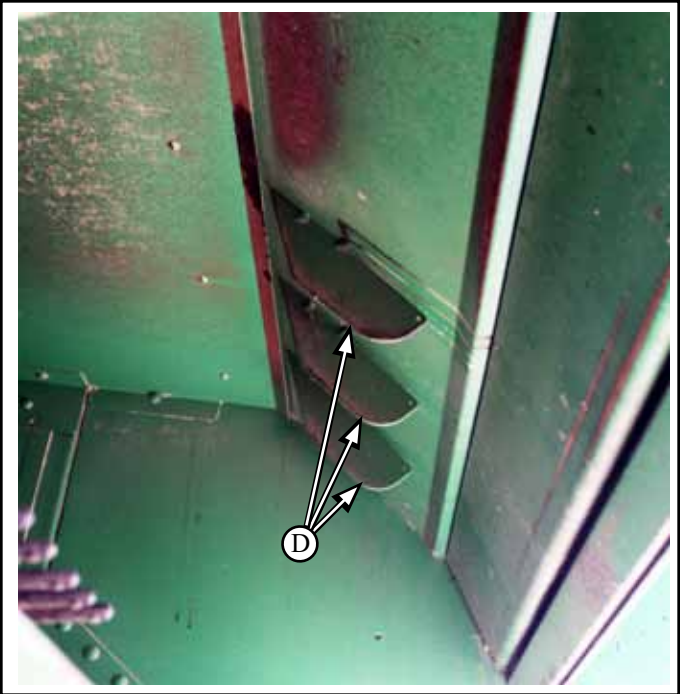
2.3 Fin Cover Plate Installation

Parts List:

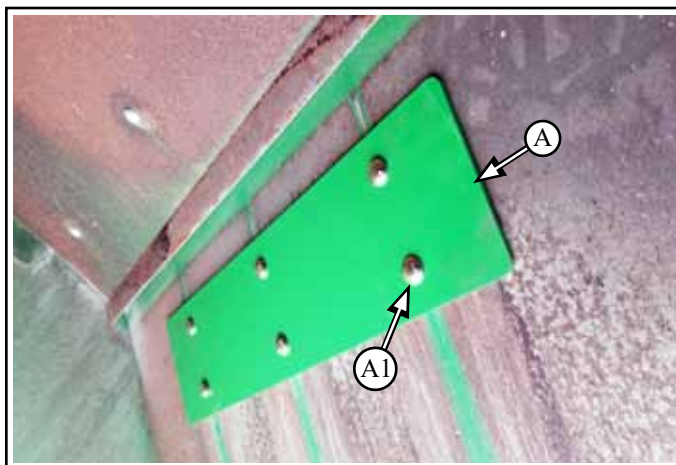
SC251G	Plate Fin Cover SCU S-Series (H)	Qty 1
SC442S	Bag Hdw SCU Common	



2.3.1 Remove existing internal deflector fins (D) x3 and bracket (E) from upper rear wall



2.3.2 Install fin cover plate (**A**) on inside of upper rear wall over exposed holes from fins just removed, with:
- M10 x 25 round head bolts and flange nuts (**A1**) x6

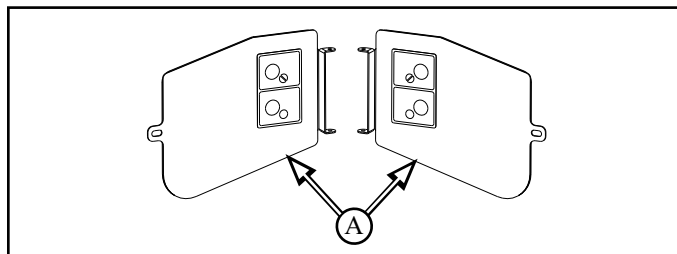


2.4 Vent Cover and Door Installation

Early Model JD S600 Series Only

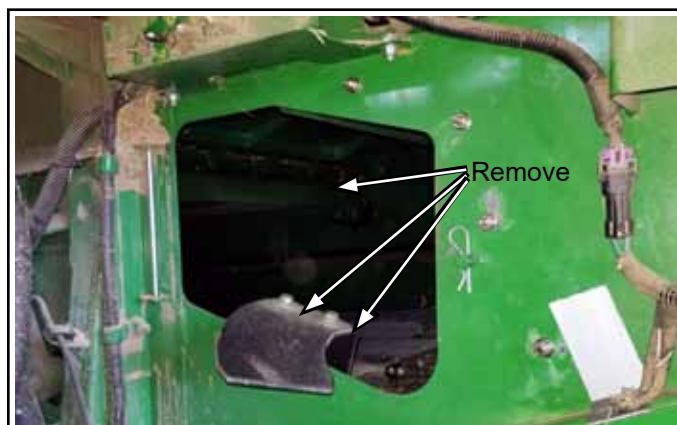
S600 Parts List:

CD682GAL Door Inspection JD S600 Series (A)	Qty 1
CD682GAR Door Inspection JD S600 Series (A)	Qty 1



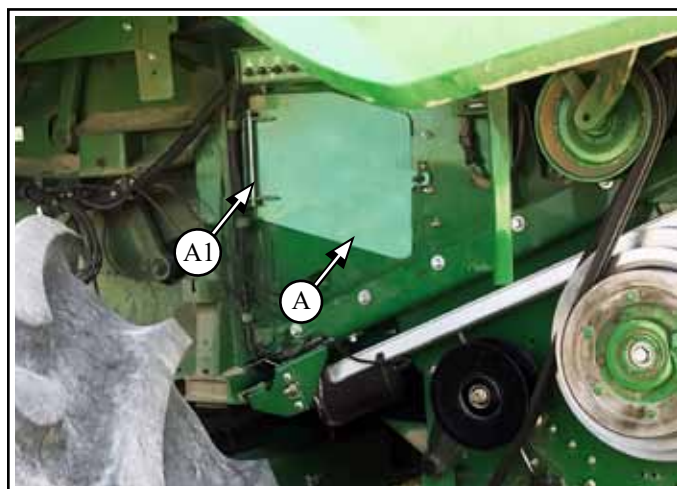
2.4.1 Remove existing vent cover, discharge bracket and rubber

- both sides
- hardware to be reused for new vent covers



2.4.2 Install left vent cover (A) over combine left vent hole with:

- reuse existing hardware (A1) pin, washer and cotter pin
- repeat for right side



Late Model JD S600 & JD S700 Series Only

Parts List:

SC277GA Door Inspection JD S700 Series **(B)**

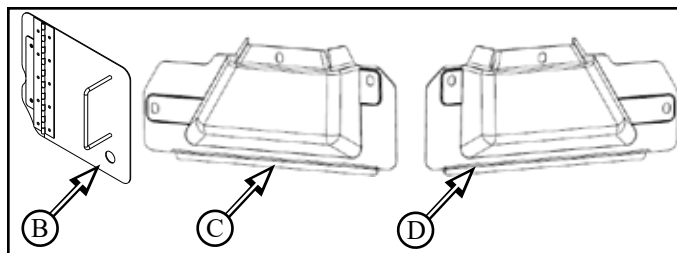
Qty 1

HXE73659 Vent Cover Lt FC **(C)**

Qty 1

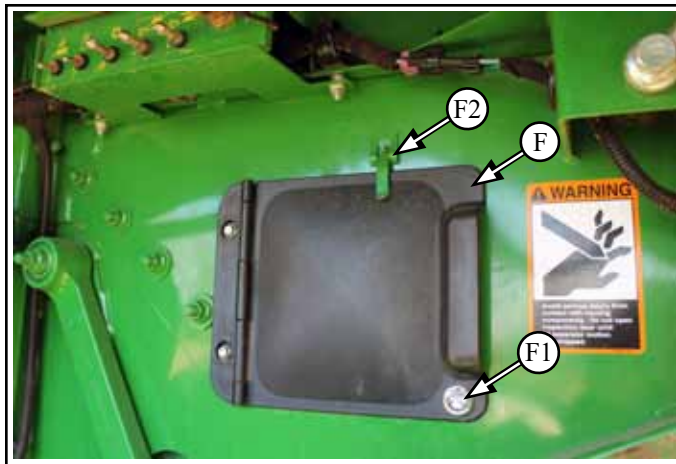
HXE73660 Vent Cover Rt FC **(D)**

Qty 1



2.4.3 Remove existing vent cover **(F)**, latch **(F1)** and lock **(F2)**

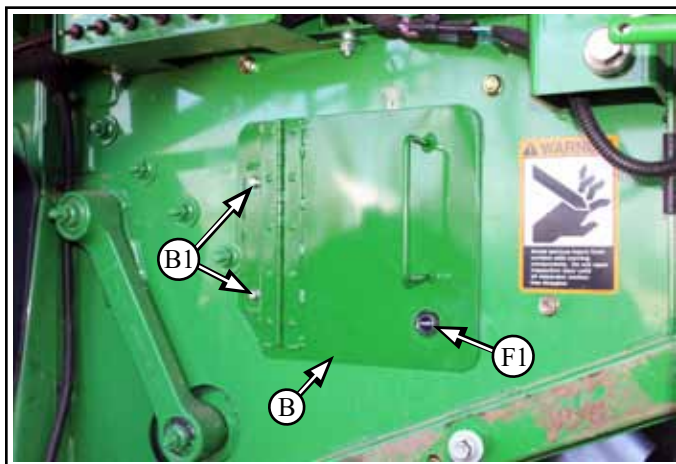
- hardware and lock to be reused for new vent cover



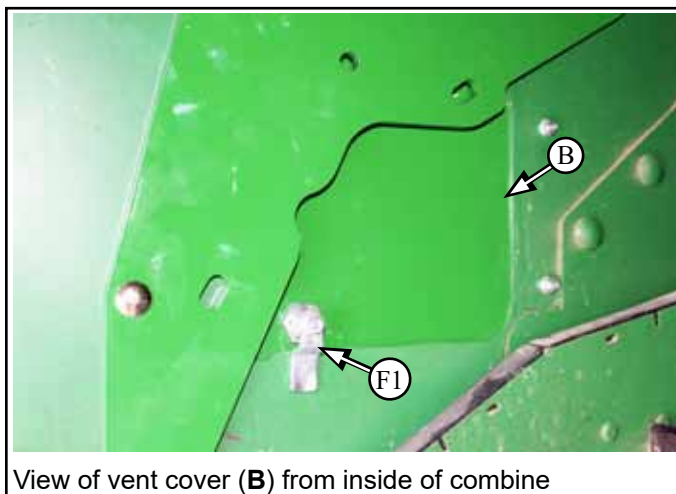
2.4.3.1 Install left vent cover **(B)** over combine left vent hole with:

- reuse existing hardware **(B1)** from combine vent

2.4.3.2 Install lock **(F1)** onto cover

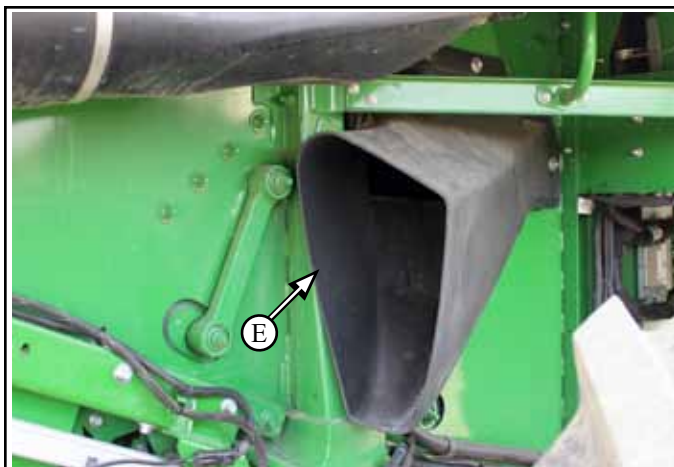
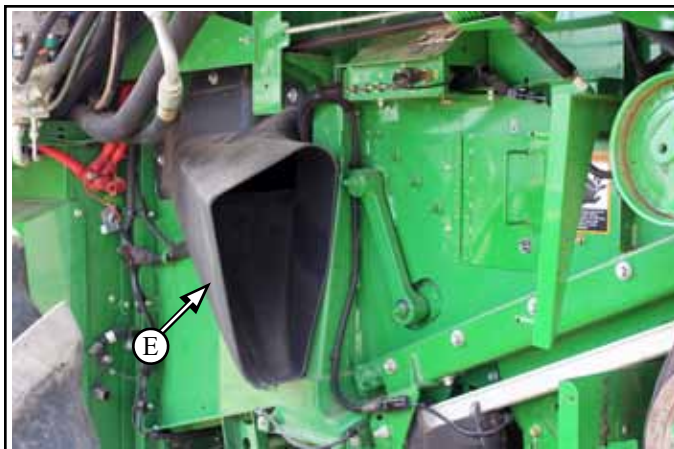


2.4.3.2.1 Ensure lock latch **(F1)** smoothly swivels onto wall of combine

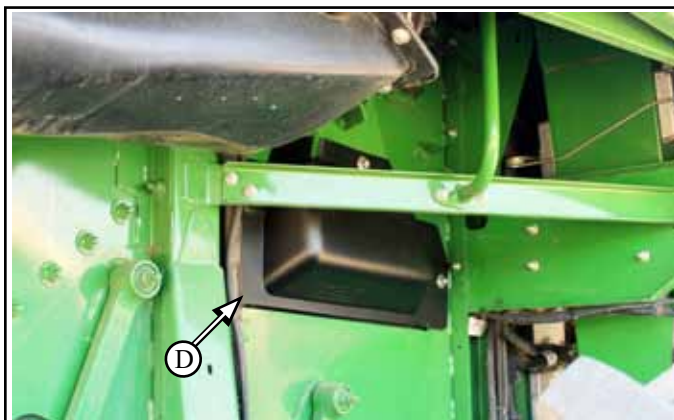


View of vent cover **(B)** from inside of combine

2.4.4 Remove existing left and right vents (**E**)
- hardware to be reused for new vent cover



2.4.5 Install new vent covers (**C & D**) with:
- reuse hardware from vents



2.5 Screen Cover Plate Installation (Not required for European regions)

Parts List:

SC302G	Cover JDS700 Panel Rt (A)	Qty 1
SC281G	Panel Fan Blocker (B)	Qty 1
SC303G	Cover JDS Lt Panel Front (C)	Qty 1
SC304G	Cover JDS Lt Panel Rear (D)	Qty 1

SC442S Bag Hdw SCU Common



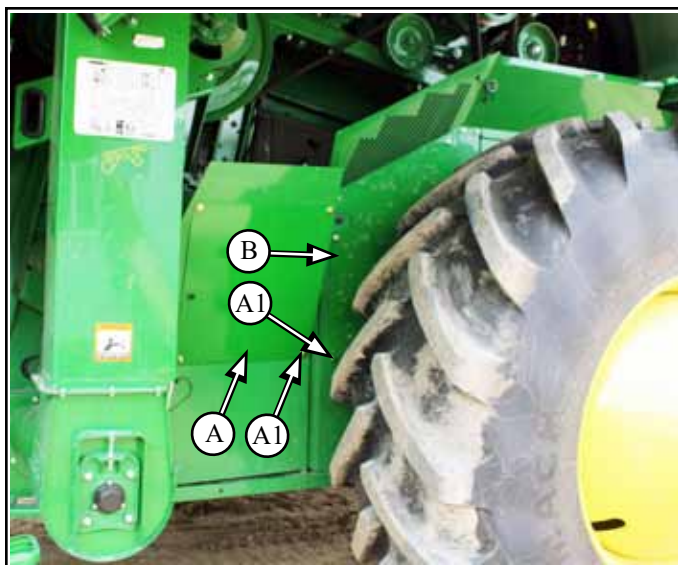
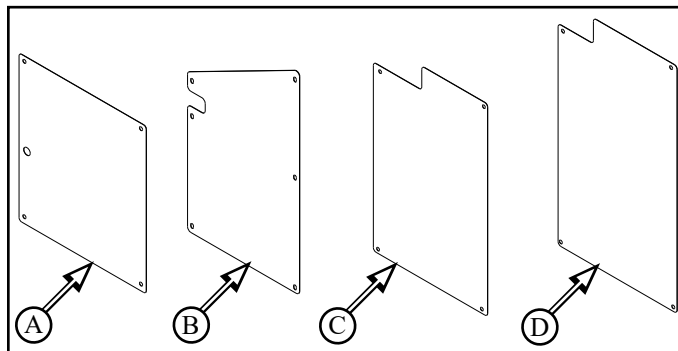
Required to reduce amount of soil into cleaning system and SCU.
Without covers in place, SCU parts will show accelerated wear.



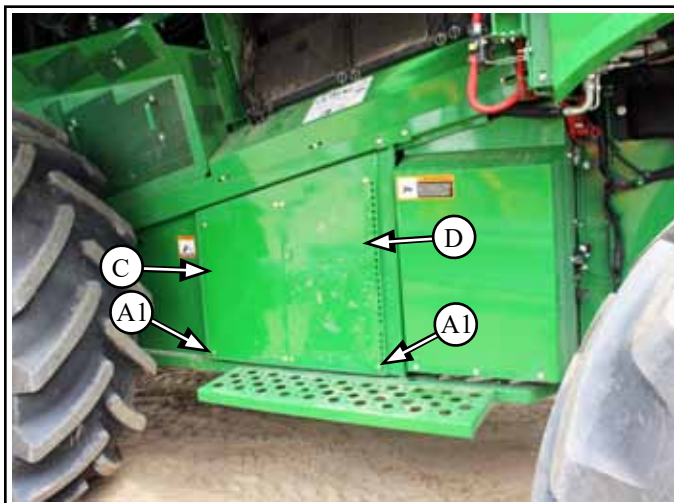
Do NOT Install if harvesting
Corn / Soybeans

Note: These panels are designed for the S700 Series combine, slight modifications may be required for the S600 Series.

2.5.1 On the right-hand side, install inlet cover panels (A & B) over the inlet screens of the cleaning fan, with:
- M10 x 20 flange head bolts and flange nuts (A1) x10



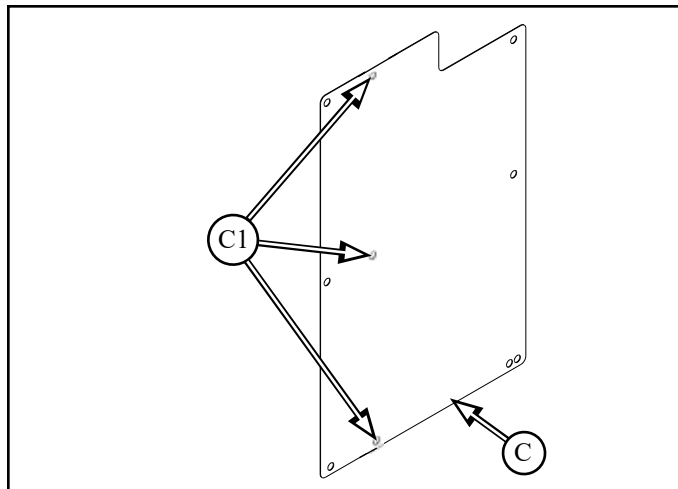
2.5.2 On the left-hand side, install inlet cover panels (**C & D**) over inlet screens, with:
- M10 x 20 flange head bolts and flange nuts (**A1**) x12



2.5.3 On combines with tracks, the left-hand side inlet screens are a different size, install cover panels with the following procedure

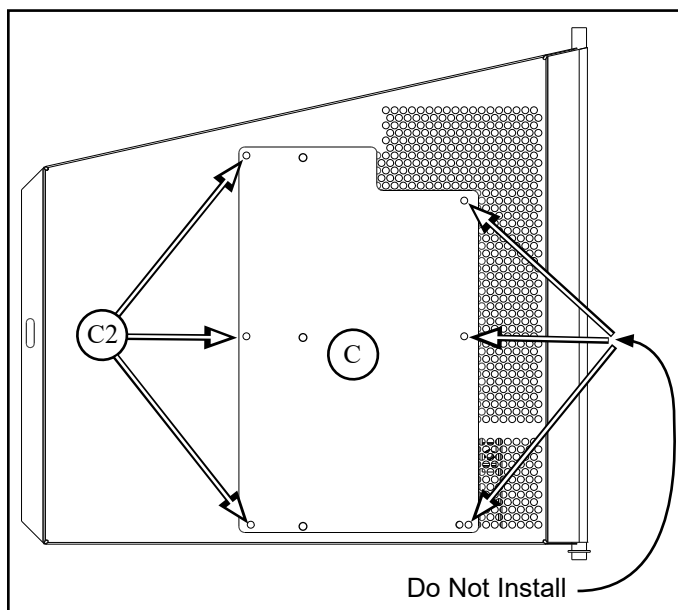


2.5.3.1 Punch out knock out holes (C1) in panel (C)



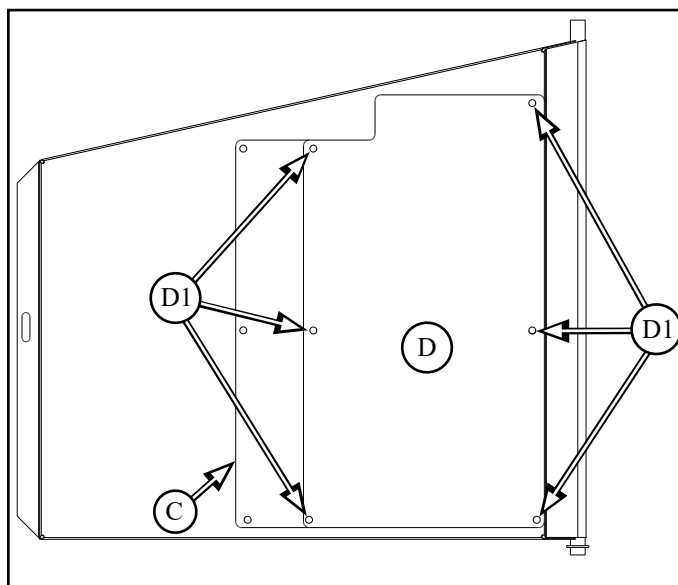
2.5.3.2 Install inlet cover panel (C) over inlet screen as shown, with:

- M10 x 20 flange head bolts and flange nuts (C2) x3 on left side of panel
- do not install on right side of panel



2.5.3.3 Install inlet cover panel (D) over inlet screen and cover panel (C) as shown, with:

- M10 x 20 flange head bolts and flange nuts (D1) x3 on right side of panel
- M10 x 20 flange head bolts and flange nuts (D1) x3 on left side of panel thru knockout holes on panel (C)

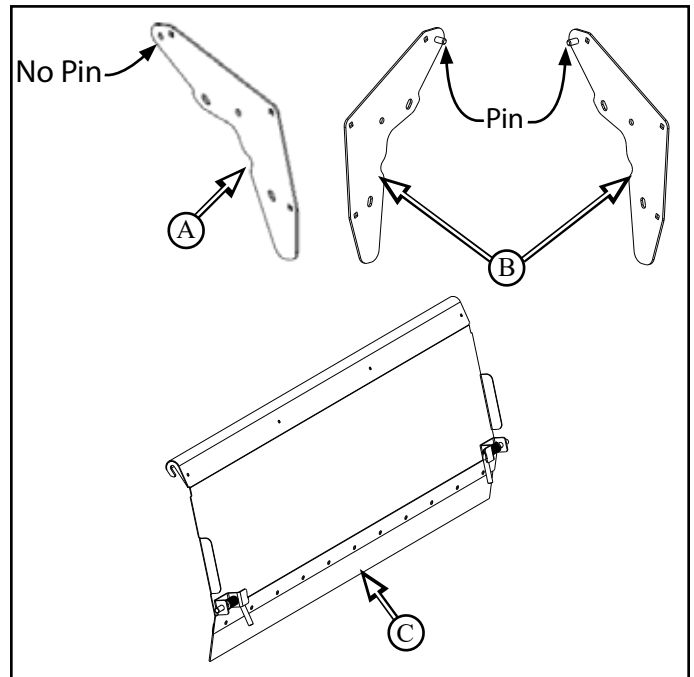


2.6 Internal SCU Baffle Installation

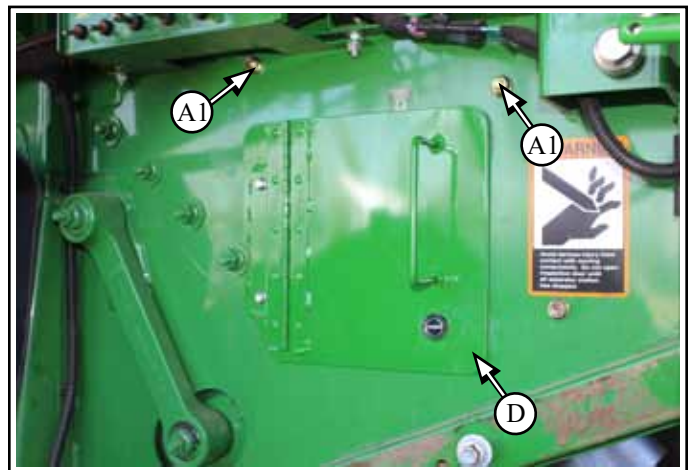
Parts List:

SC258-01G	Shim Internal Baffle Mnt Plate (A)	Qty 2
SC258GL	Internal Baffle Mnt SCU JDS Lt (B)	Qty 1
SC258GR	Internal Baffle Mnt SCU JDS Rt (B)	Qty 1
SC630GA	Internal Baffle Assy SCU JDS (C)	Qty 1

SC442S Bag Hdw SCU Common

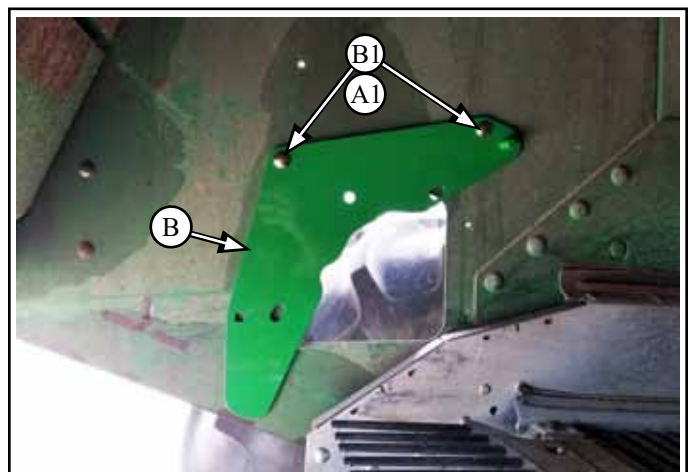


2.6.1 Above left vent, punch out the two pre-cut areas (A1) and open the door (D)

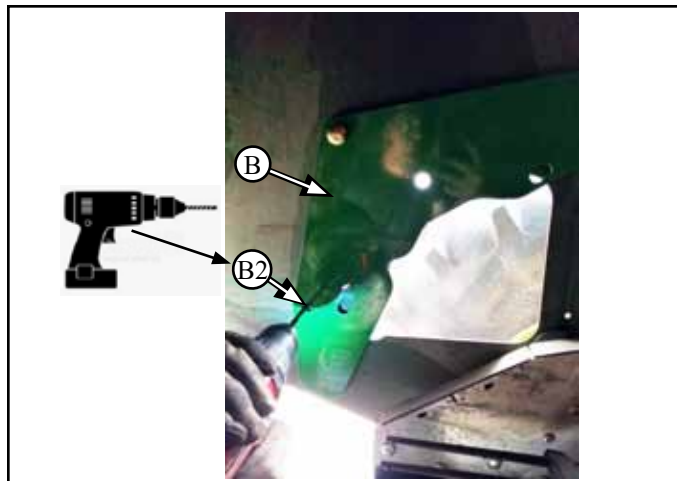


2.6.2 Install left internal baffle mount plate (B) on inside of left-hand side wall, with:

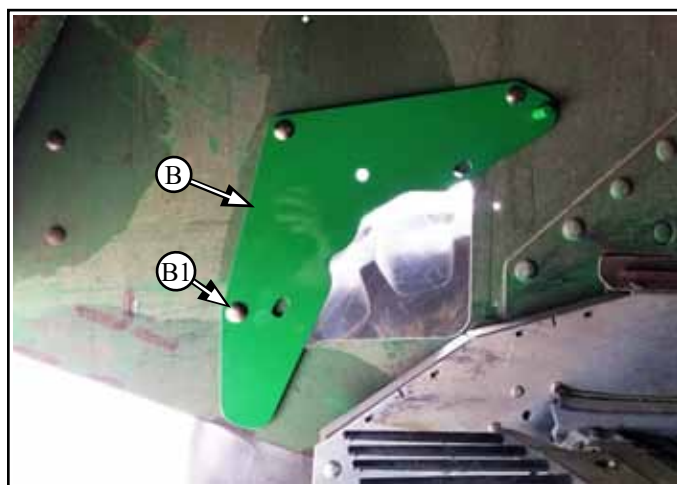
- use existing knock out plug holes (A1) in combine wall
- M10 x 25 round head bolt and flange nut (B1) x2



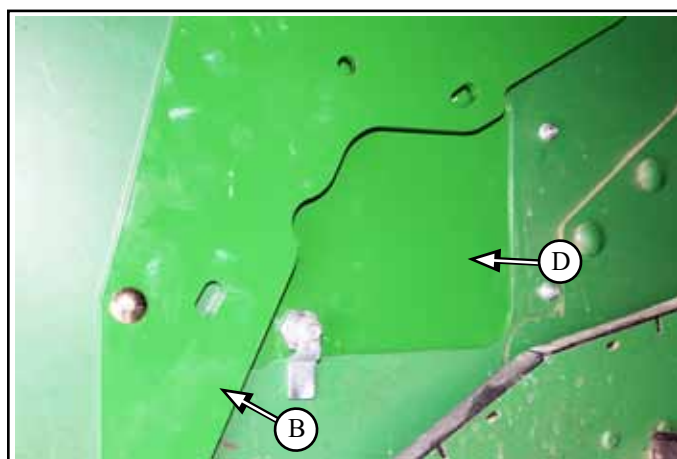
2.6.3 Drill 11mm (.406") hole through bottom hole (**B2**) in left internal baffle mount plate (**B**), through combine wall



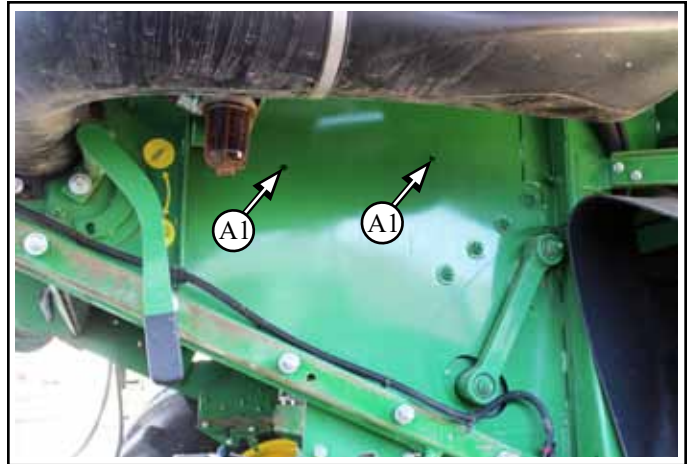
2.6.4 Complete installation of left internal baffle mount plate (**B**) through hole just drilled (**B2**), with:
- M10 x 25 round head bolt and flange nut (**B1**) x1



2.6.4.1 Close and lock the door (**D**)

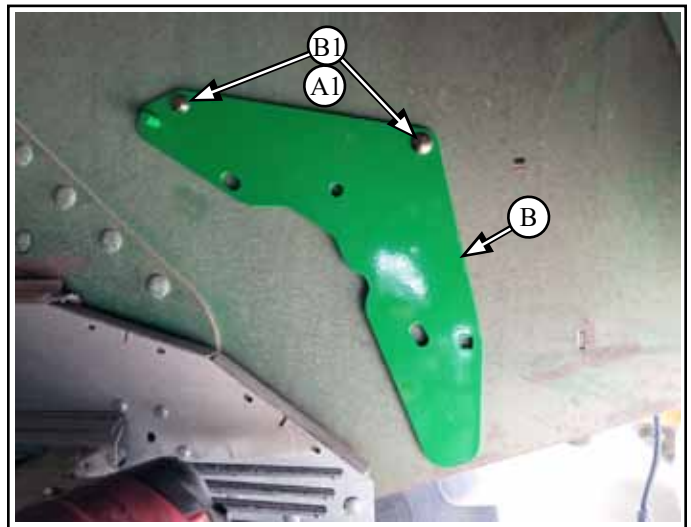


2.6.5 On right side, punch out the two pre-cut areas (**A1**)

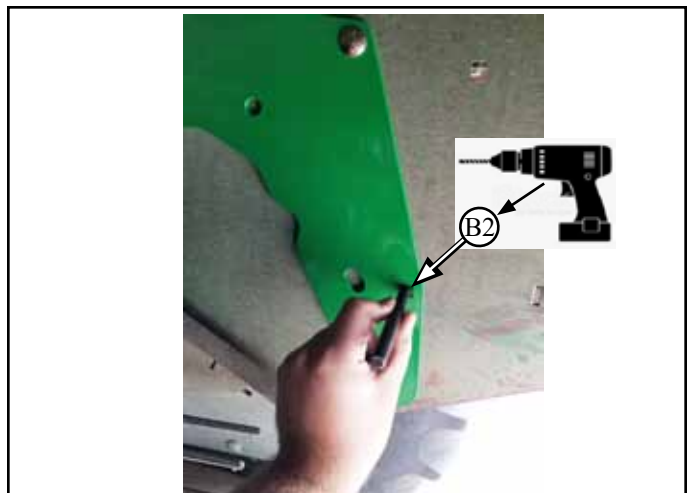


2.6.6 Install right internal baffle mount plate (**B**) onto inside of right-hand side wall of the combine, with:

- use existing knock out plug holes (**A1**) in combine wall
- M10 x 25 Round head bolt and flange nut (**B1**) x2

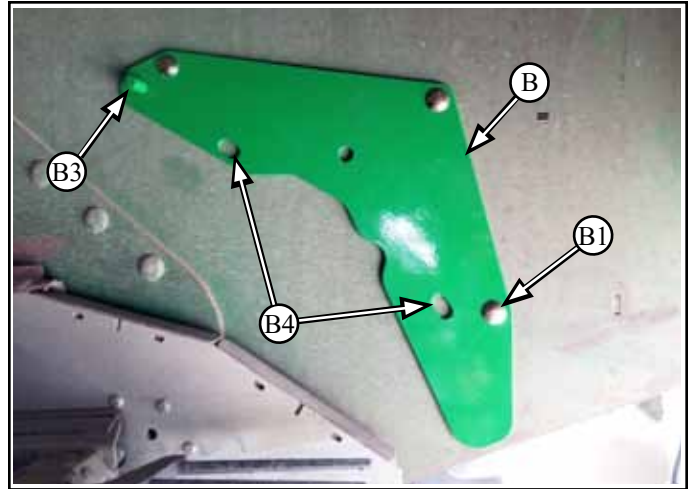


2.6.7 Drill 11mm (.406") hole through bottom hole (**B2**) in right internal baffle mount plate (**B**), through combine wall



2.6.8 Complete installation of right internal baffle mount plate (**B**) through hole just drilled (**B2**), with:

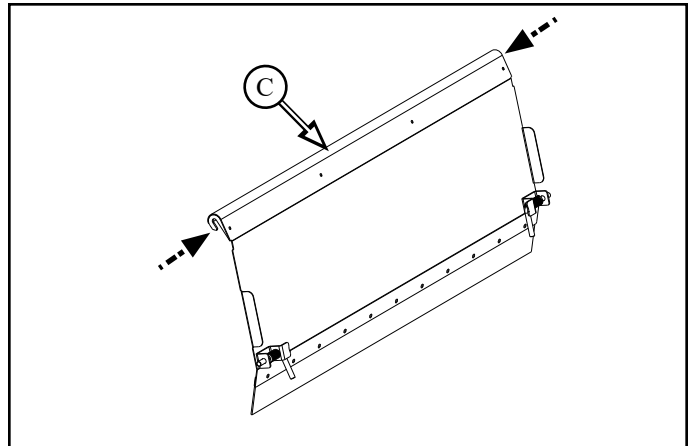
- M10 x 25 round head bolt and flange nut (**B1**) x1



2.6.9 Install internal baffle panel (**C**)

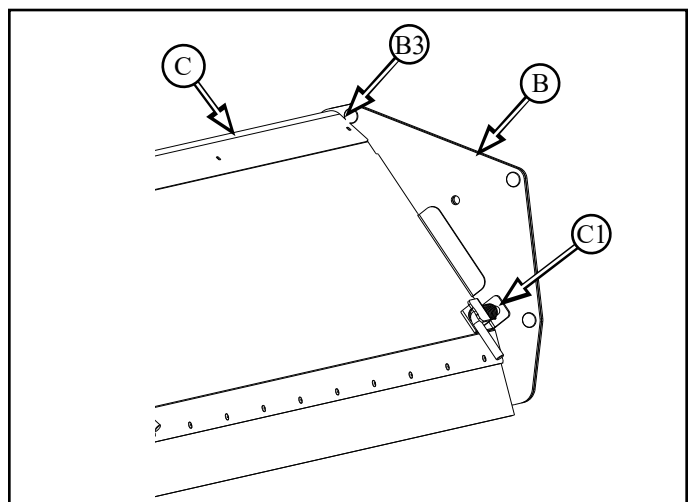
2.6.9.1 Slide hooked ends (see arrows) of baffle panel over pins (**B3**) of both mount plates (**B**)

2.6.9.2 Ensure spring locking pins (**C1**) are engaged into slots (**B4**) of the mount plates (**B**)



Note: Shim plates (**A**) have been provided to allow for the variance in width of the combines. These may not be required for all situations.

Slide the baffle panel (**C**) to one combine sidewall and then on the other end measure the gap from the edge of the baffle to the sidewall. If it measures more than 7mm (1/4"), add 1 shim plate (**A**) between the side wall and mount plate (**B**). If more than 12mm, add a shim plate (**A**) under both mount plates (**B**).

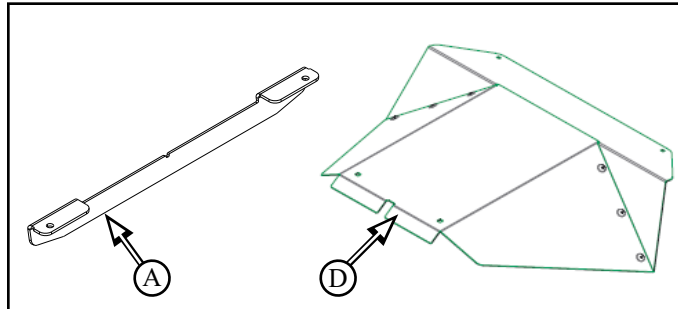


2.7 Divider Panel Installation

If Straw Tine Deflector Kit (optional) is being installed, install at this stage and skip this step 2.7

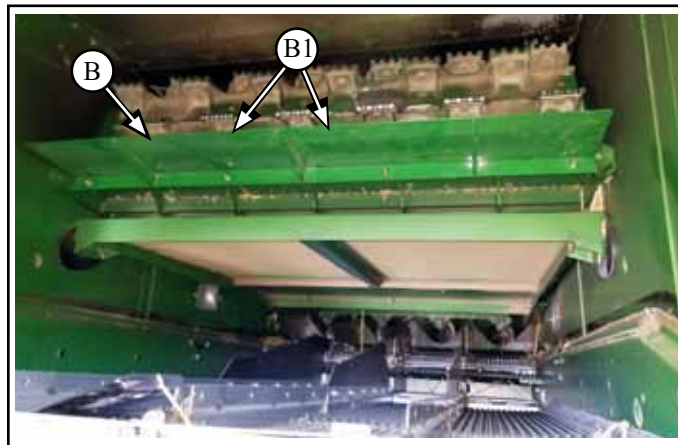
Parts List:

SC433G	Straw Divider Mount Bracket (A)	Qty 1
SC433A	Straw Divider (D)	Qty 1
SC442S	Bag Hdw SCU Common	



If not previously installed as per 2.1.3, continue:

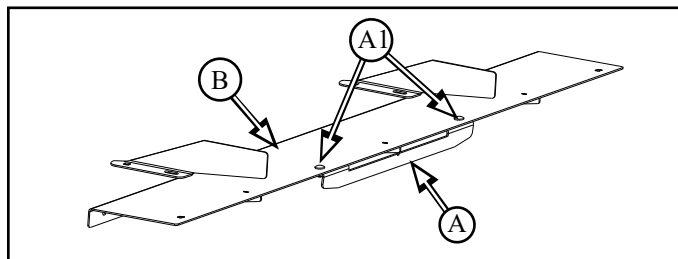
2.7.1 Punch out the two center pre-cut knockout holes (**B1**) on the beater extension (**B**) previously installed



If not previously installed as per 2.1.3, continue:

2.7.1.2 Install straw divider mount bracket (**A**) to underside of beater extension (**B**) through knock out holes, with:

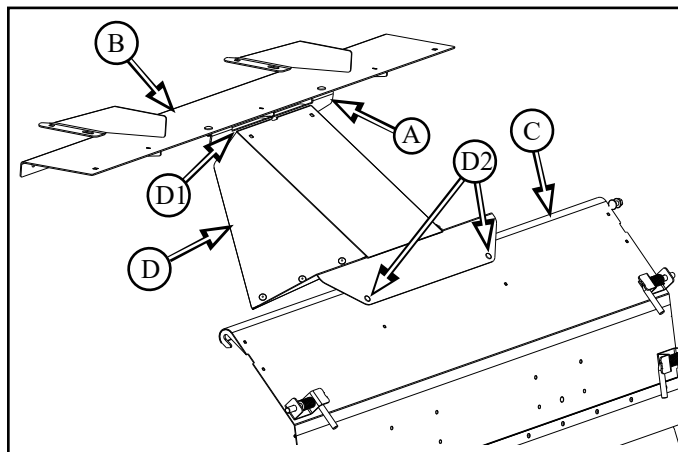
- M8 x 16 round head bolt and flange nut (**A1**) x2
- ensure head of bolt is on top side of extension (**B**)



2.7.1.3 Slide front (**D1**) of straw divider (**D**) into mount bracket (**A**)

2.7.1.3.1 Mount rear of straw divider (**D**) to baffle panel (**C**) through knock out holes, with:

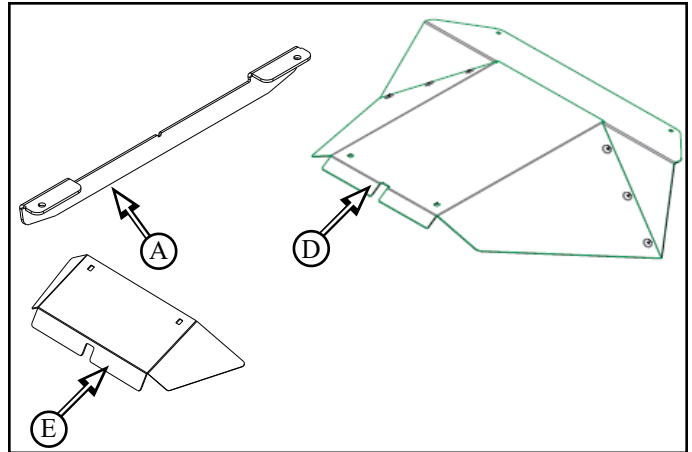
- M8 x 16 round head bolt and flange nut (**D2**) x2
- ensure head of bolt is on top side of divider (**D**)



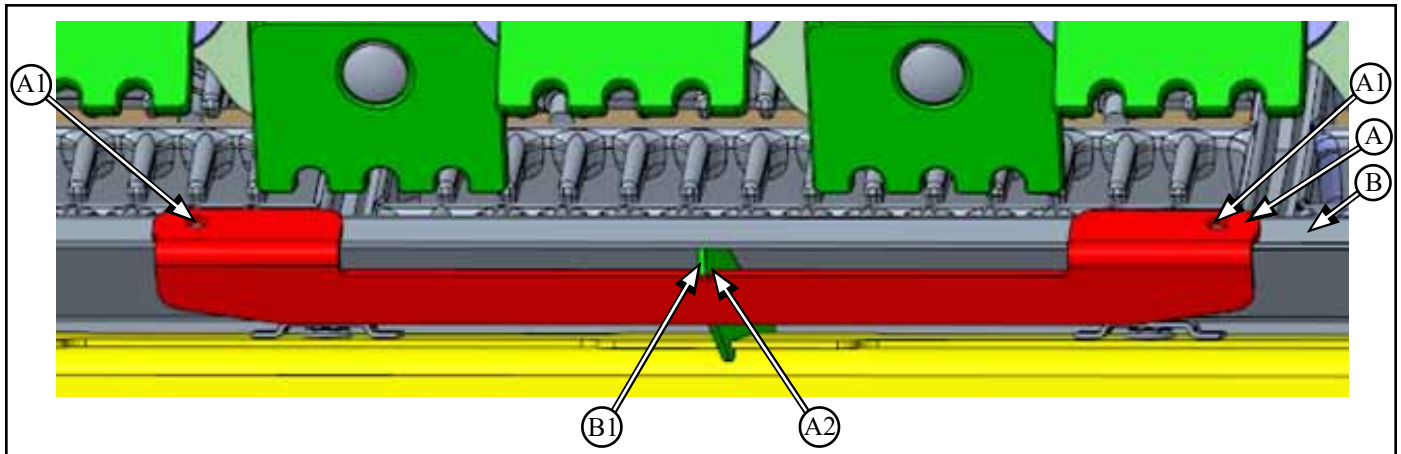
2.7.2 Divider Panel Installation - With Overshot Beater

Parts List:

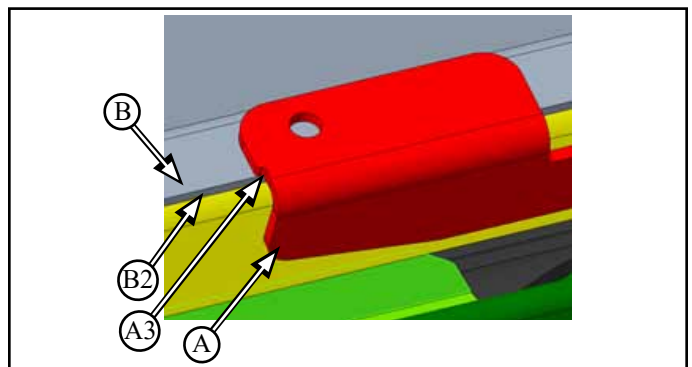
SC433G	Straw Divider Mount Bracket (A)	Qty 1
SC433A	Straw Divider (D)	Qty 1
SC433-04	Straw Divider Extension (E)	Qty 1
SC442S	Bag Hdw SCU Common	



2.7.2.1 Place mount bracket (A) on top of factory beater floor lip (B) to mark holes (A1) to be drilled
- align the notch (A2) in the bracket (A) with the center gusset (B1) on the beater floor (B)

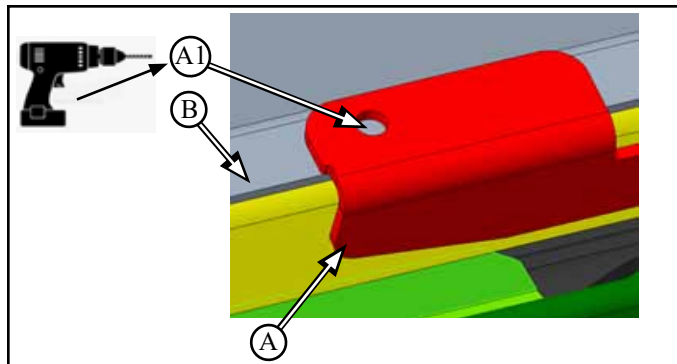


2.7.2.2 Align the end notches (A3) in the bracket (A) with the edge (B2) of the beater floor (B)
- both sides



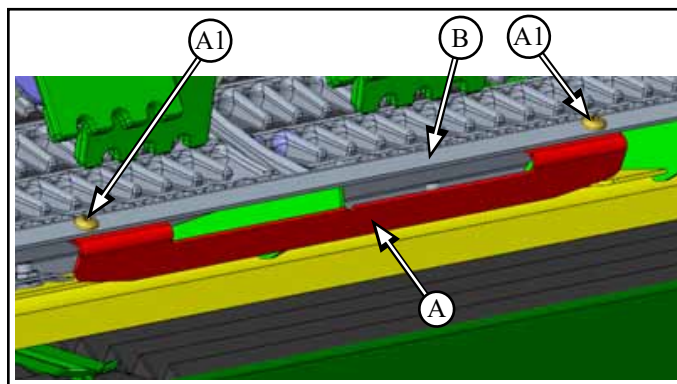
2.7.2.3 Mark hole locations (**A1**) x2 to be drilled in beater floor (**B**)

2.7.2.4 Drill 9mm (.344") holes (**A1**) x 2



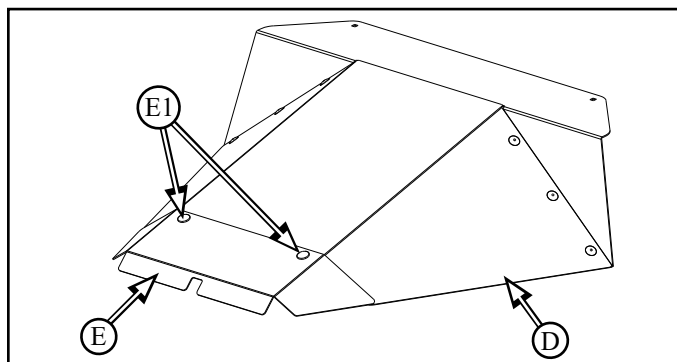
2.7.2.5 Install bracket (**A**) to bottom of beater floor (**B**) through drilled holes (**A1**), with:

- M8 x 16 socket button head bolt and flange nut (**A1**) x2
- ensure head of bolt is on top side of beater floor lip (**B**)



2.7.2.6 Assemble straw divider (**D**) and extension panel (**E**) together, with:

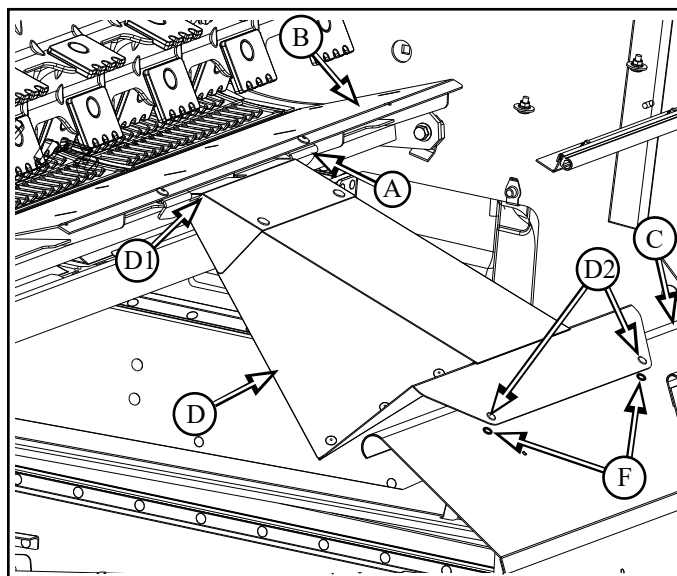
- M8 x16 round head bolt and flange nut (**E1**) x2
- ensure head of bolt is on top



2.7.2.7 Slide front (**D1**) of straw divider assembly (**D**) into mount bracket (**A**)

2.7.2.7.1 Mount rear of straw divider (**D**) to baffle panel (**C**) through knock out holes, with:

- M6 x 16 socket button head bolt and flange nut (**D2**) x2
- Slide bolt (**D2**) x2 into M6 push nut (**F**) x2 to hold the bolt in place
- ensure head of bolt is on top side of divider (**D**)

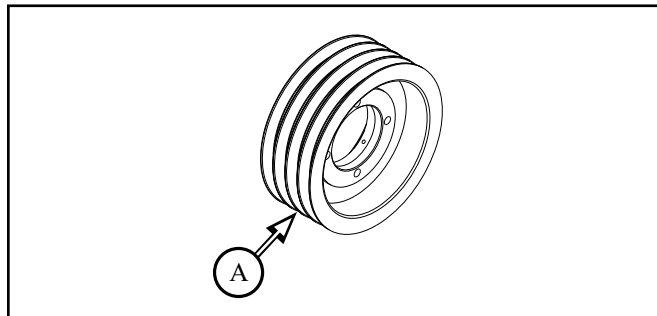


2.8 PTO Drive Sheave - 70S - Replacement and Installation

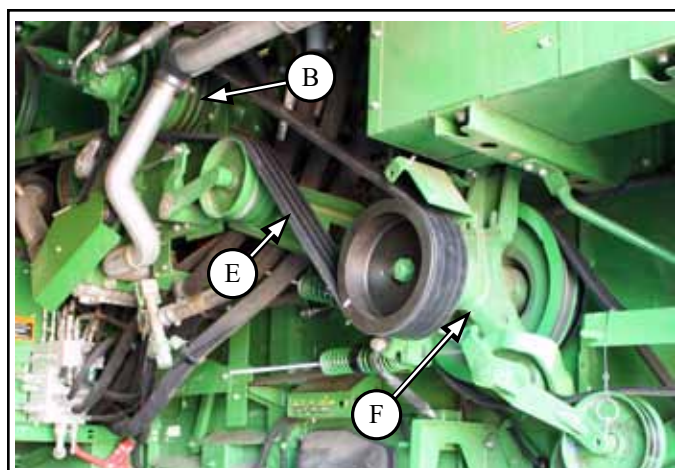
On 60 and 70 Series Machines with an SCU, the upper 3 groove PTO Drive Sheave is required to be replaced with a 4 groove sheave
- ordered seperately for 60 or 70S SCU

Parts List:

RP1764 Sheave JD S PTO 4C-Rib (A) Qty 1



2.8.1 Remove existing 3 groove OEM chopper drive belt (E) from upper PTO sheave (B) and jackshaft (F)
- not to be reused



2.8.2 Remove existing upper 3 groove OEM PTO drive sheave (B)
- not to be reused

2.8.3 Install new 4 groove PTO drive sheave (A) in place of 3 groove sheave, with:
- reuse mounting hardware

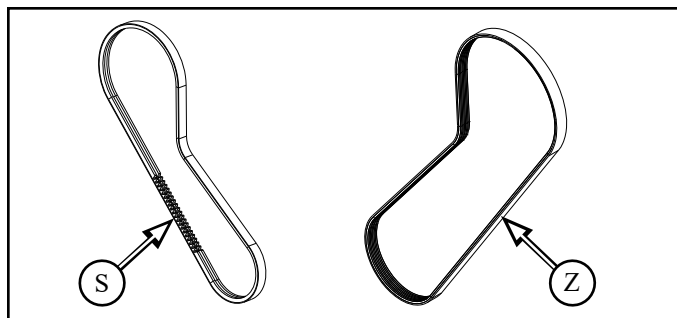


2.9 Drive Belt Installation

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

Parts List:

BE2CX114K	V Belt 2CX 114L Kevlar (S)	Qty 1
BE4M107K	V Belt 4M 107L Kevlar (Z)	Qty 1



2.9.1.1 Remove bottom block out plate (A) from shield (B) to allow drive belt thru

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 - new BE2CX114K (S) on sheave closest to wall

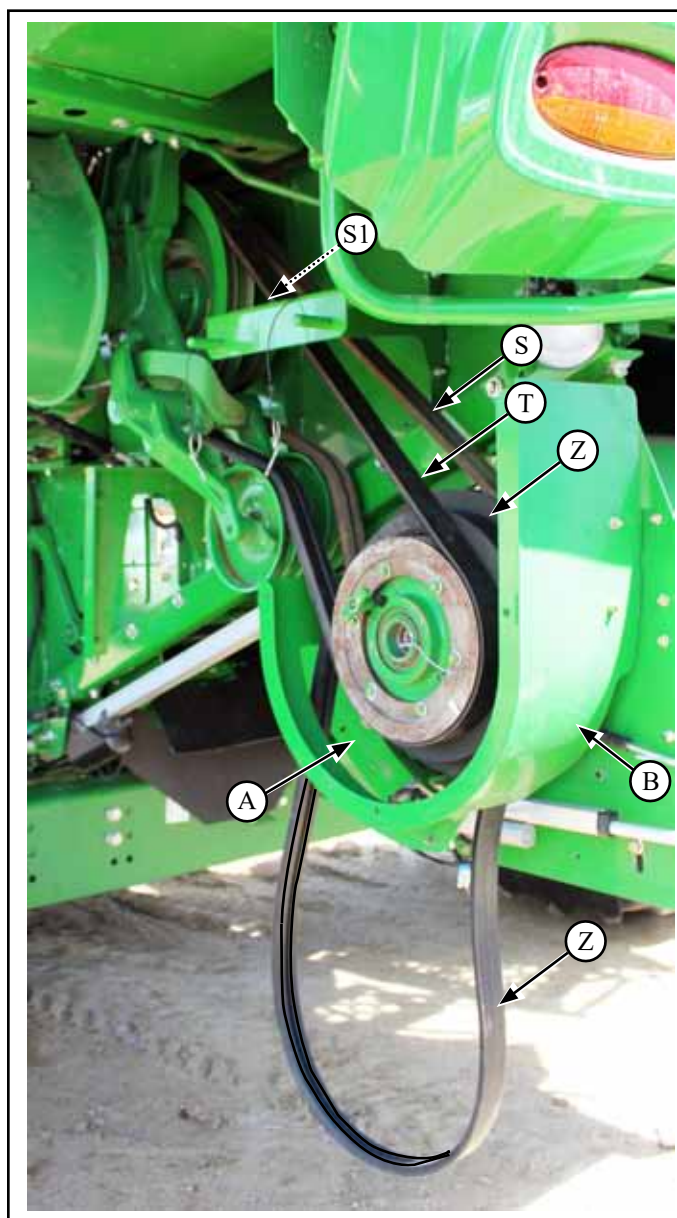
2.9.1.2 Install new BE2CX114K drive belt (S) onto large drive sheave on chopper

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

2.9.1.4 Install new SCU drive belt (Z) onto middle sheave on chopper
- leave hang loose until SCU is installed

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

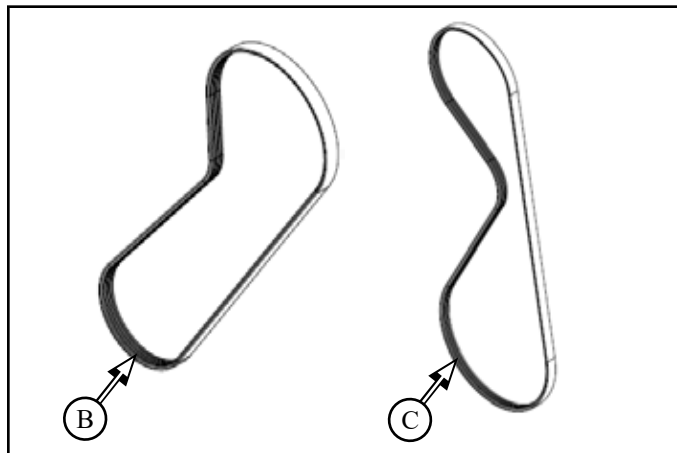
2.9.1.6 Tighten all belt spring tensioners to indicated length



2.9.2 Drive Belt Installation - On combines with the OEM Dual Belt/Shifter, Extra Fine Cut Chopper (XFC)

Parts List:

BE4M107K	V Belt 4M 107L Kevlar (B)	Qty 1
BE3M114K	V Belt 3M 114L Kevlar (C)	Qty 1



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

1st - Existing high speed 3 groove belt (T) onto large Jackshaft sheave

2nd - Beater Belt (C1) onto middle sheave

3rd - BE3M114K (C) on sheave closest to wall

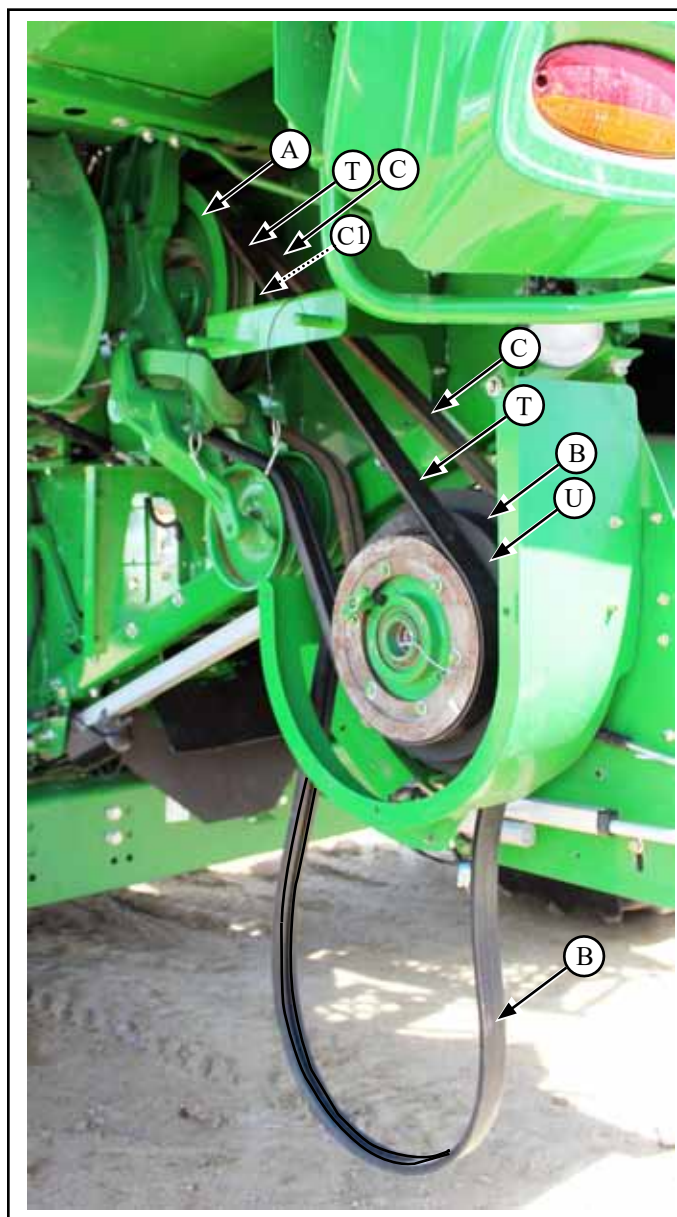
2.9.2.1 Install new BE3M114K low speed drive belt (C) onto large drive sheave (U) on chopper

2.9.2.2 Reinstall beater drive belt (C1) from jackshaft up to beater

2.9.2.3 Install new SCU drive belt BE4M107K (B) onto middle sheave (U) on chopper
- leave hang loose until SCU is installed

2.9.2.4 Reinstall high speed 3 groove belt (T) onto outer drive sheave (U) on chopper

2.9.2.5 Tighten all belt spring tensioners to indicated length

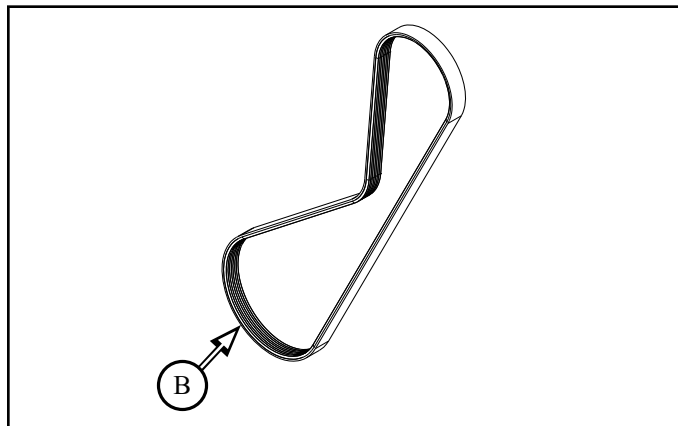


2.9.3 Drive Belt Installation - On combines with the OEM Single Belt, Fine Cut Chopper (FC)

Parts List:

BE4M98K V Belt 4M 98L Kevlar (**B**)

Qty 1

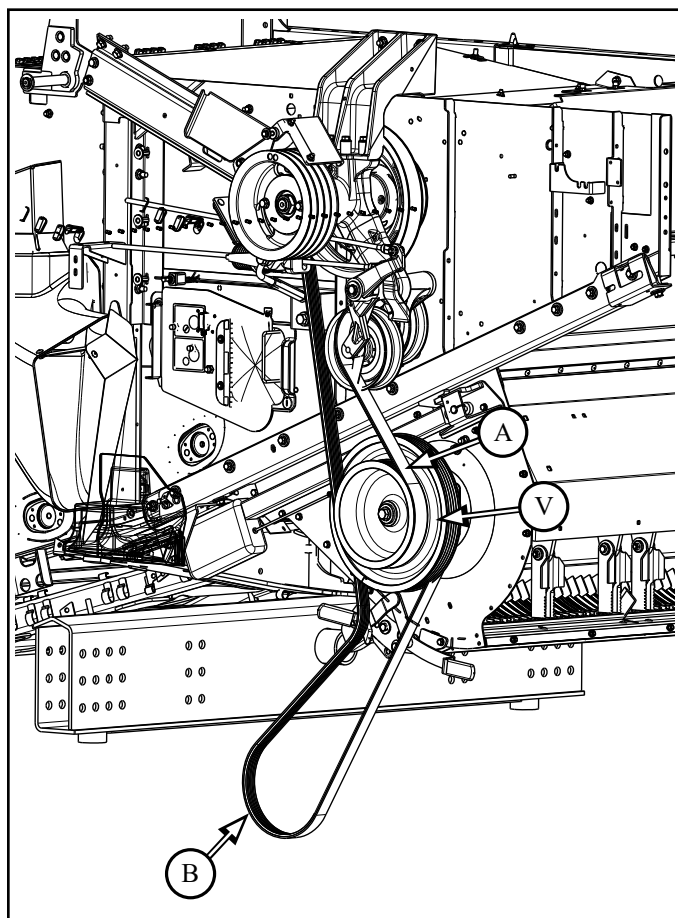


2.9.3.1 Remove chopper drive belt (**A**) from chopper sheave (**S**)

2.9.3.2 Install new BE4M98K SCU drive belt (**B**) onto inner most sheave (**S**) on chopper
- leave hanging until SCU is installed

2.9.3.3 Reinstall chopper drive belt (**A**) onto outer most sheave (high speed) (**V**) on chopper

2.9.3.4 Tighten all belt spring tensioners to indicated length

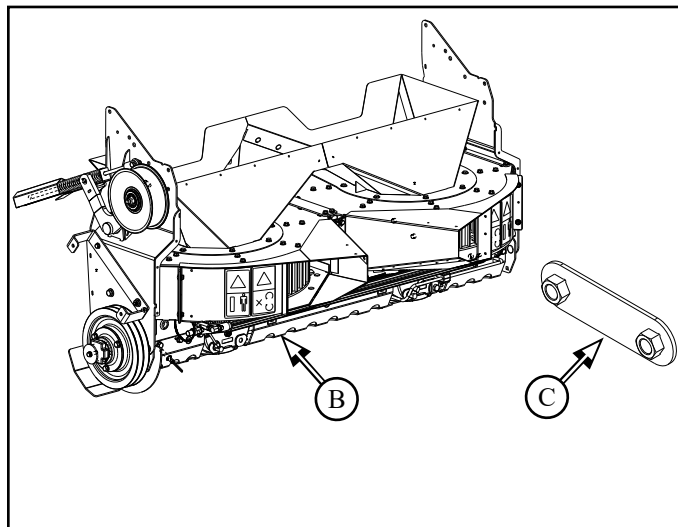


2.10 Seed Control Unit Installation

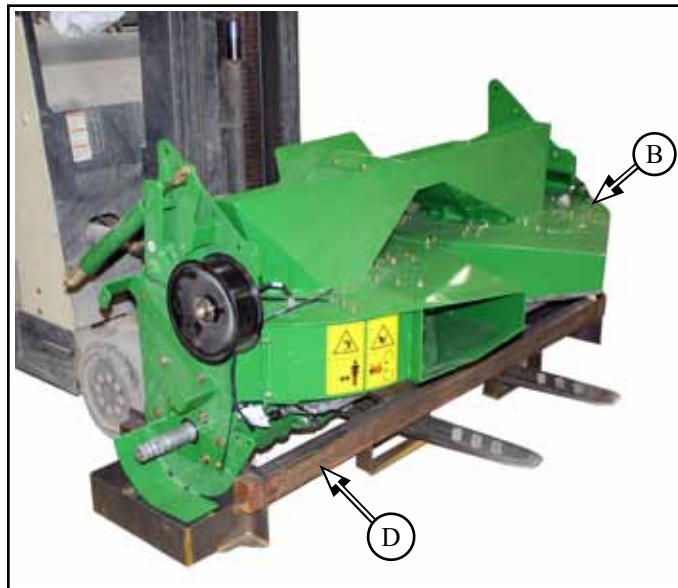
Parts List:

CD730GA Seed Control Unit Assembly JD S (B) Qty 1
SC348Z Strap Nut SCU Mount (C) Qty 2

SC442S Bag Hdw SCU Common

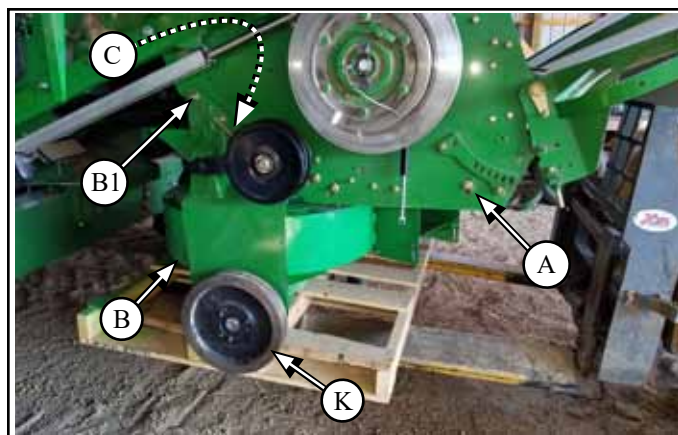


2.10.1 Keep Seed Control Unit (B) mounted to service frame (D) during installation



2.10.2 With straw chopper (A) slid back on rail, lift Seed Control Unit (B) up - align with mount holes (B1) on front of chopper and attach to chopper with:

- M12 x 25 flange bolt and flange nut (B1) x4 each side
- heads of bolts to be on inside
- use SCU mount strap (C) on inside where nuts are not accesible
- bolt head may not fit thru 3rd hole from top, install with head on outside if required

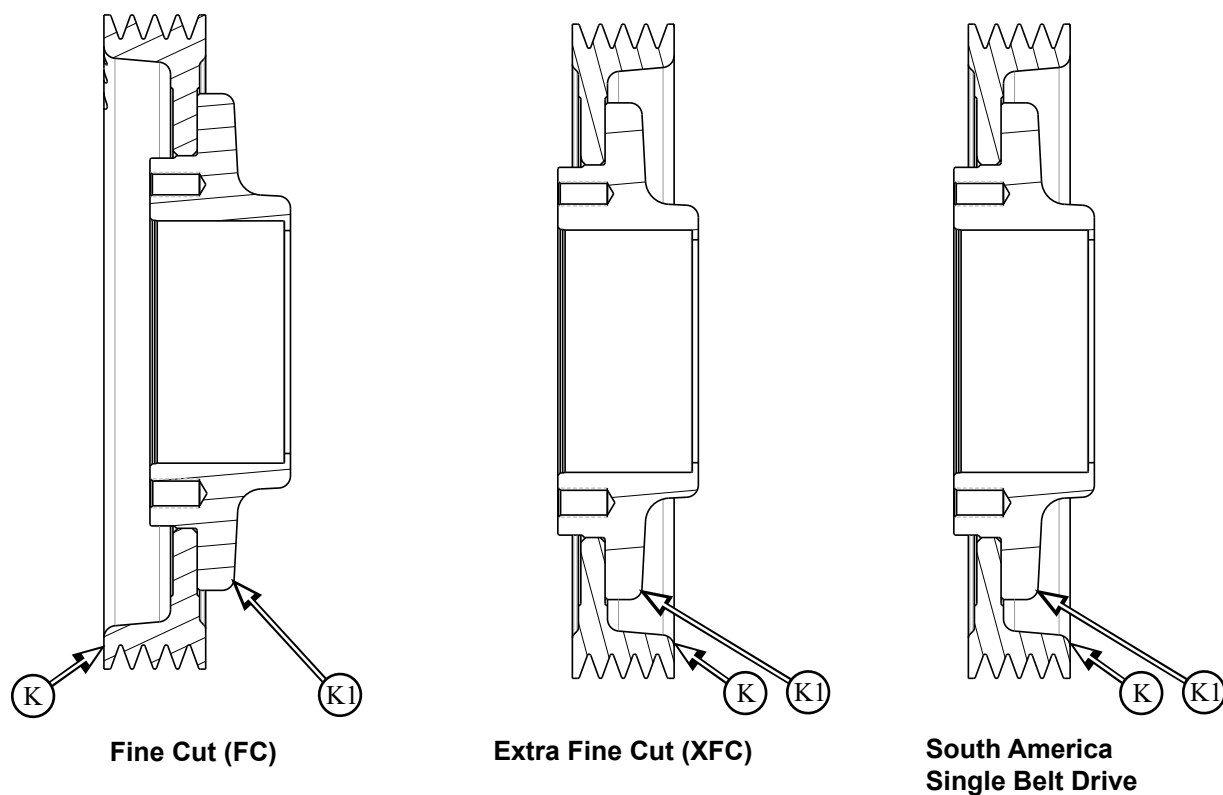


2.10.3 Remove service frame (D) from Seed Control Unit
- both sides

2.10.4



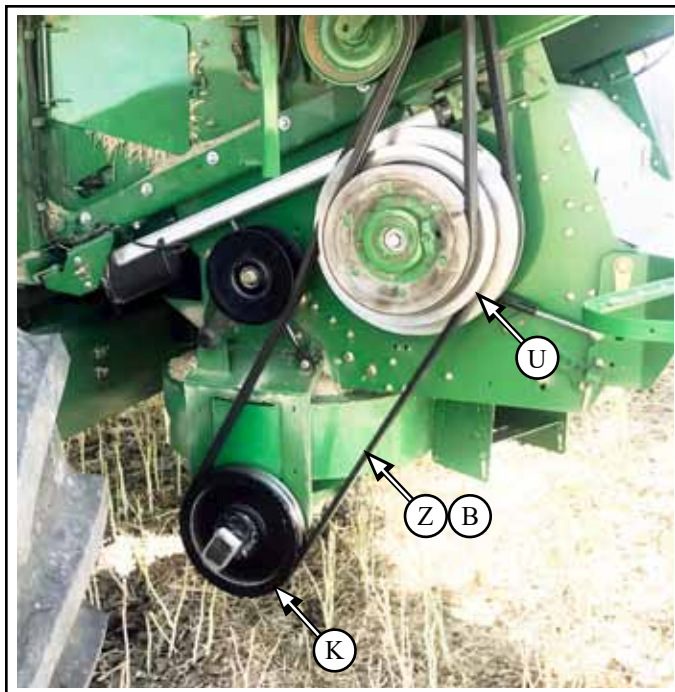
Ensure SCU driven sheave (**K**) is orientated with correct offset on hub (**K1**) as shown for the combine type:



2.10.5 On combines with the OEM Dual Belt/Shifter, Fine Cut Chopper (FC) and Extra Fine Cut (XFC)

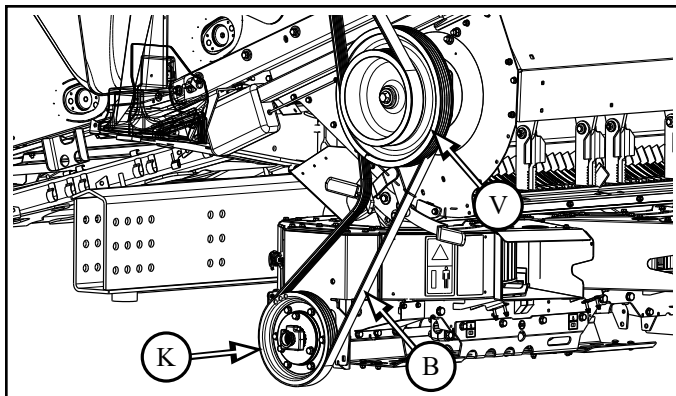
Install V belt (**Z** or **B**) onto Seed Control Unit driven sheave (**K**) from chopper sheave (**U**)

V Belt 4M 107K (**Z**) (FC) (**B**) (XFC)



2.10.6 On combines with the Single Belt, Fine Cut Chopper (FC)

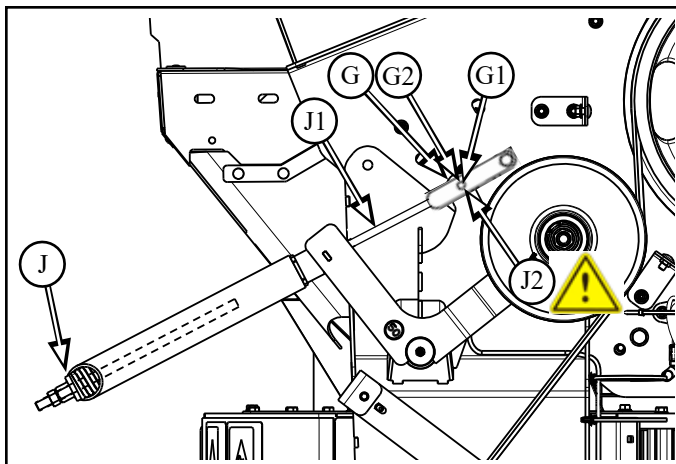
Install V belt (**B**) onto SCU driven sheave (**K**) from chopper sheave (**V**)
V Belt 4M 98K (**B**)



Belt Tensioner Installation

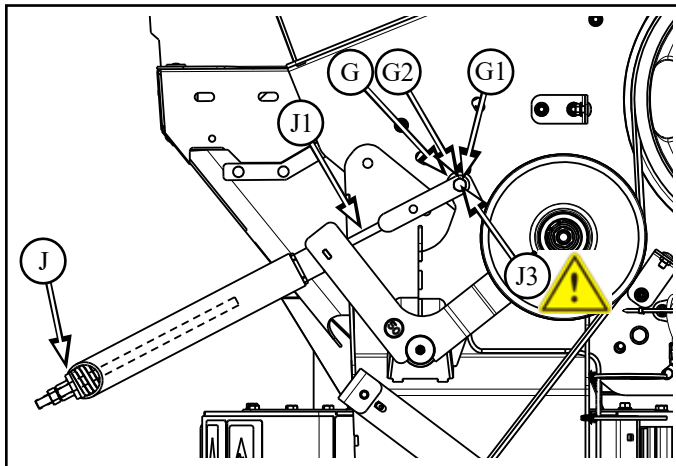
FC OEM and Redekop MAV Chopper

- 2.10.7  Ensure belt tension rod (**J1**) link hole (**J2**) is installed to hole (**G2**) on bracket (**G**), with:
- M10 x 35 hex bolt and lock nut (**G1**)



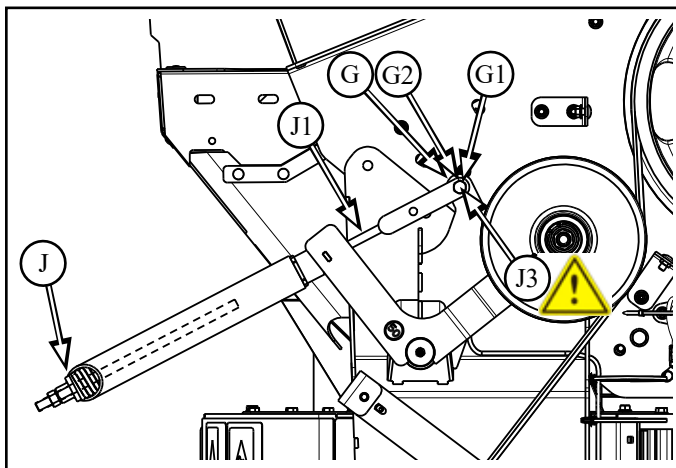
XFC OEM Chopper

- 2.10.8  Ensure belt tension rod (**J1**) link hole (**J3**) is installed to hole (**G2**) on bracket (**G**), with:
- M10 x 35 hex bolt and lock nut (**G1**)

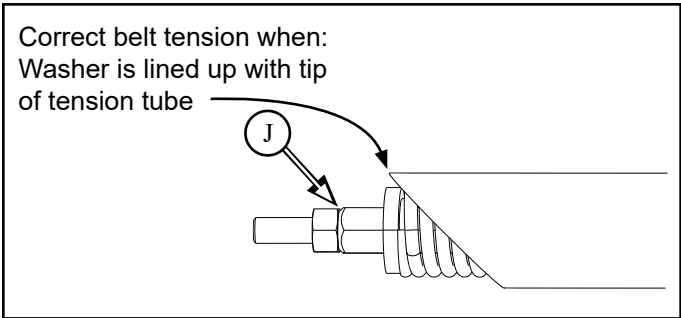


South America FC OEM Chopper with Single Belt

- 2.10.9  Ensure belt tension rod (**J1**) link hole (**J3**) is installed to hole (**G2**) on bracket (**G**), with:
- M10 x 35 hex bolt and lock nut (**G1**)



2.10.10 Adjust belt tensioner (J) to indicated length

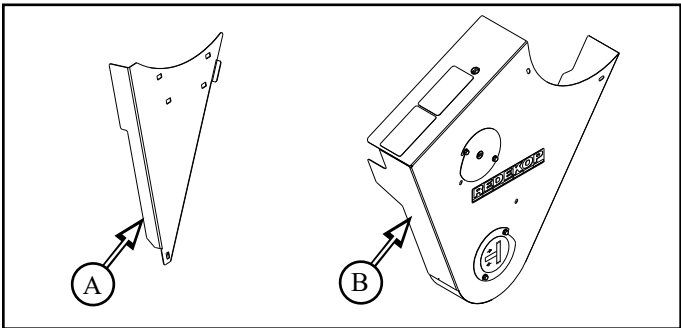


2.11 Shield Installation

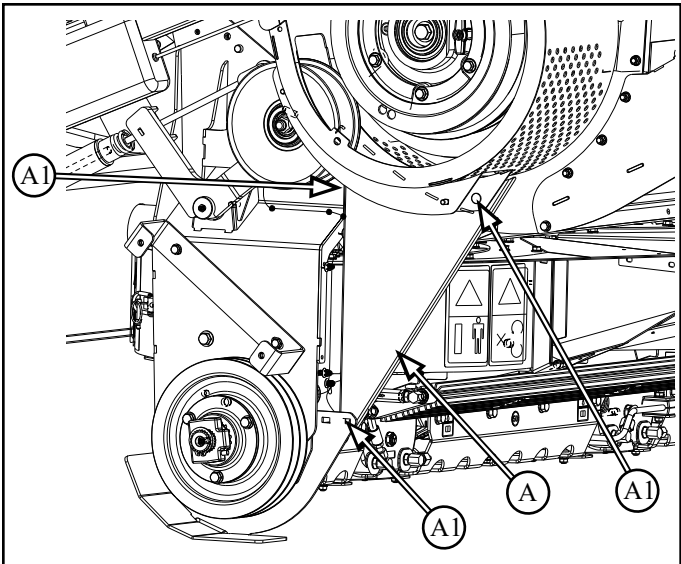
Parts List:

SC194G	Backside Shield JD (A)
SC191GA	Shield Lower Drive SCU (B)
SC448S	Bag Hdw SCU Shield Mnt

Qty 1
Qty 1

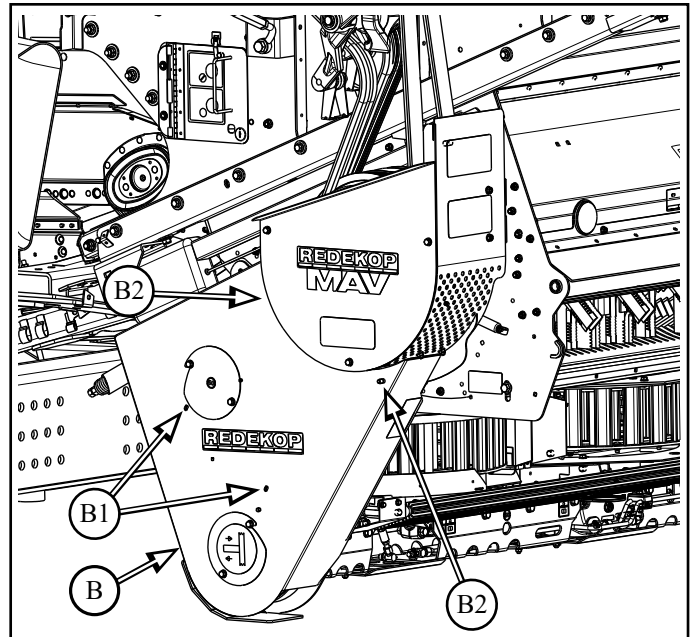


2.11.1 Install new backside shield (A) with:
- M8 x 25 round head bolt and flange nut (A1) x3



2.11.2 Attach lower drive shield (B) with:

- M8 x 16 flange bolt (B1) x2
- M8 flange nut (B2) x2

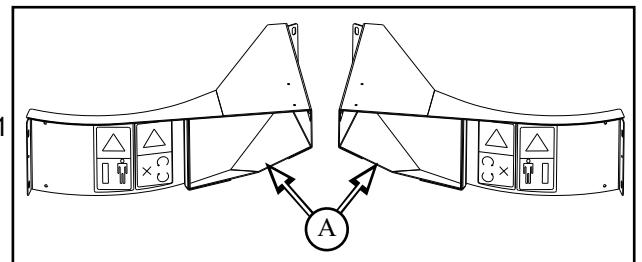


2.12 Discharge Outlet Installation

Parts List:

- SC217GAL / GAR Discharge Outlet Vane TB (A) Qty 1
- SC180GAL / GAR Discharge Outlet Narrow Vane TB (A) Qty 1

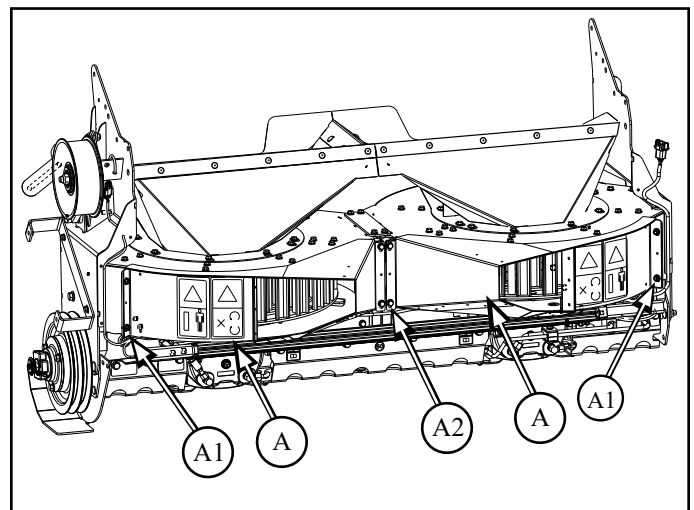
SC435S Bag Hdw SCU Outlet Mount



2.12.1 Install discharge outlet (A) to SCU housing with:

- M8 x 16 round head bolt and flange nut (A1) x2
- M8 x 20 flange head bolt (A2) x2

- repeat for other side



2.13 Rear Tire Clearance

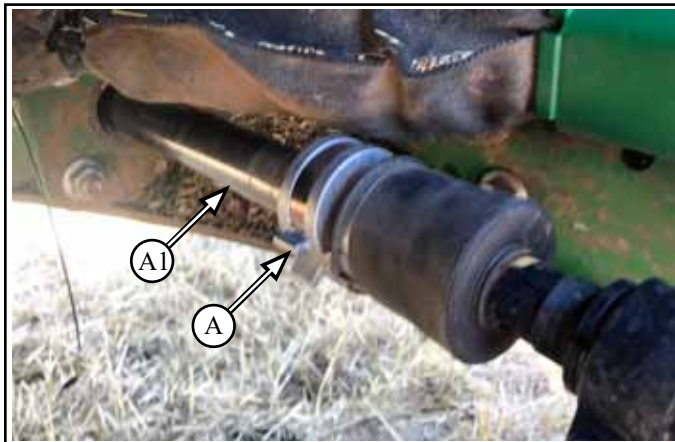
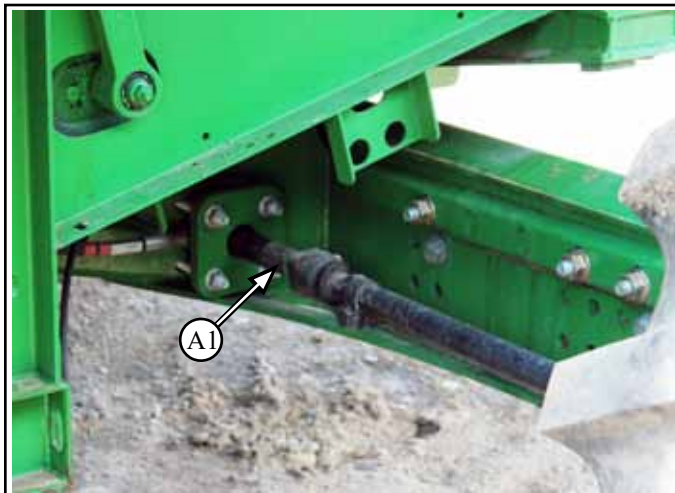
Depending on axle and tire configuration, a steering cylinder stop may be required for clearance between the tire and SCU shield

Parts List:

AN233321 Axle Stop (A)

Qty 2

2.13.1 Attach axle stop (A) onto rear steering axle (A1)
- both sides



2.13.1 Ensure that when wheels are turned that there is 50mm (2 inches) of clearance between tire and shield
- add additional spacers as required



Tire Pressure:

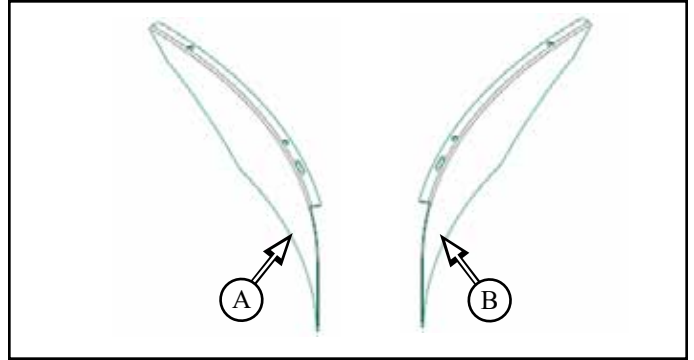
The SCU adds 660kgs / 1450lbs to the rear of the combine.
Refer to the specifications of the tire and adjust tire pressures accordingly.



2.13 Tailboard Fin Installation

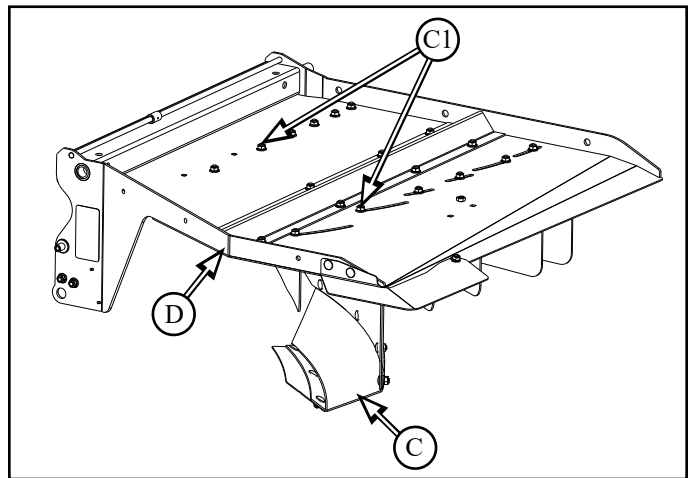
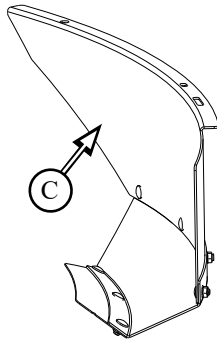
Parts List:

CG732GL	Fin Crv 40L SCU Lt (A)	Qty 1
CG732GR	Fin Crv 40L SCU Rt (B)	Qty 1



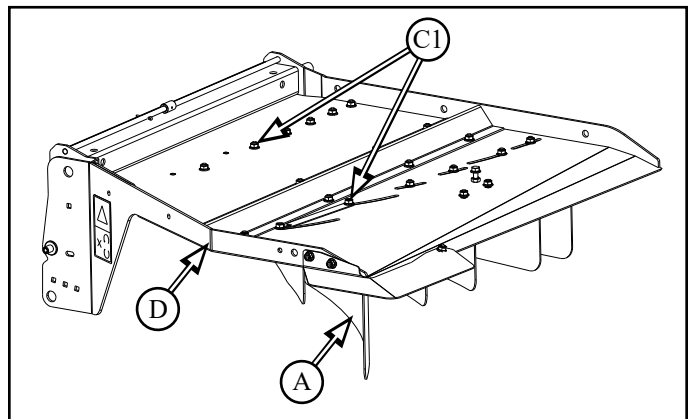
2.13.1 Remove existing wide spread scooped fin assembly (C) from tailboard (D)

- hardware (C1) to be reused for new fins
- discard existing fin assembly (C)
- both sides



2.13.2 Install new wide spread fin (A) to tailboard (D) at same location as fin (C) previously removed

- reuse hardware (C1) from fins
- both sides

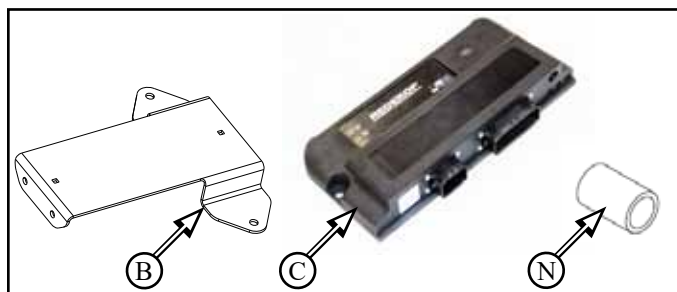


3 Electronics Installation

3.1 ECU (B) Installation

Parts List:

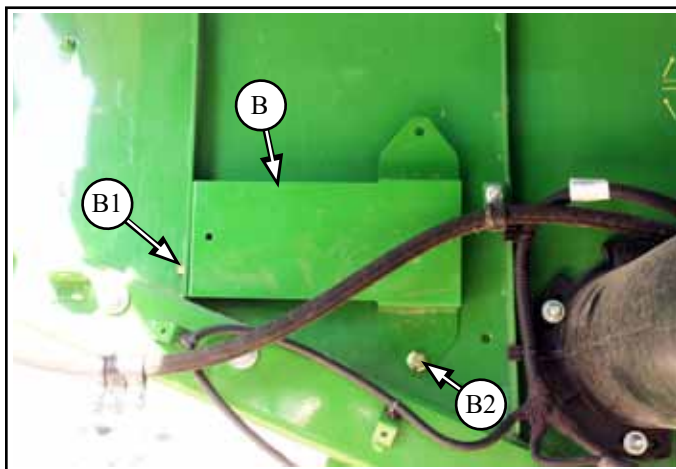
SC297G	Bracket ECU Mount JDS (B)	Qty 1
RP1021	ECU Tailboard/SCU (C)	Qty 1
CS856Z	Spacer (N)	Qty 1
SC455S	Bag Hdw SCU Electronics	



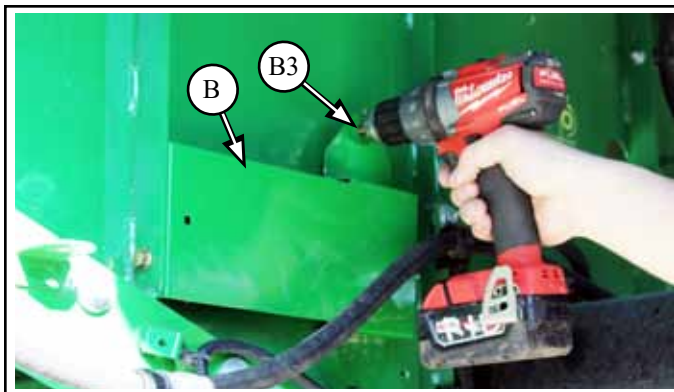
3.1.1 Install ECU mount bracket (B) onto side rear wall of combine above chopper (A)



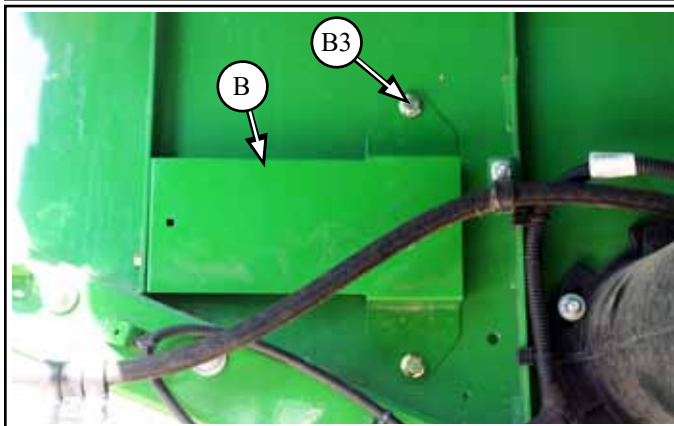
3.1.1.1 Install bracket (B) into existing holes with:
- M8 x 20 flange bolt and nut (B1)
- M10 x 20 flange bolt and nut (B2)



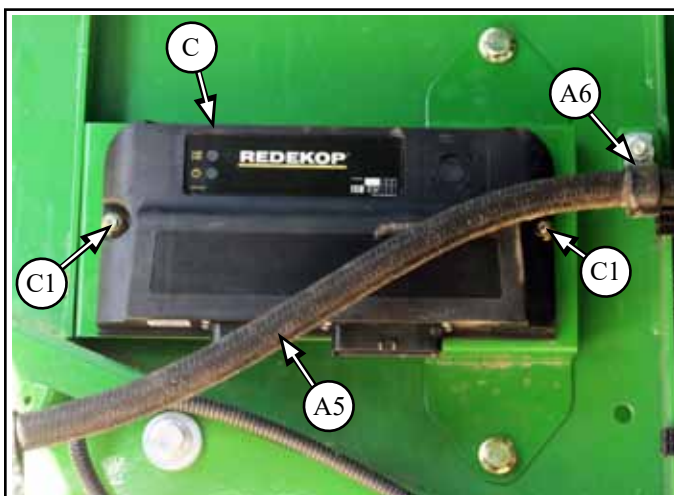
3.1.1.2 Drill 11mm (.406") hole (**B3**) through tab on mount plate through combine wall



3.1.1.3 Mount tab to combine wall with:
- M10 x 20 flange bolt and nut (**B3**)



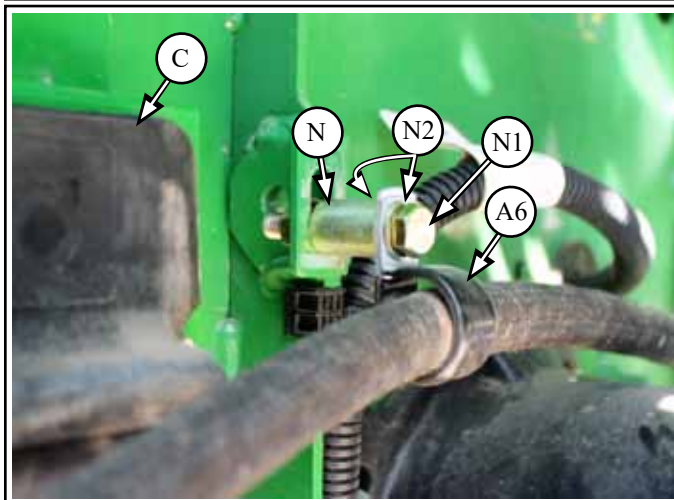
3.1.2 Install ECU (**C**) onto mount plate (**B**) with:
- M6 x16 round head bolt and flange nut (**C1**) x2



3.1.3 Raise fuel line (**A5**) so that it does not touch ECU

3.1.3.1 Disconnect clamp (**A6**) from side wall bracket

3.1.3.2 Re install clamp (**A6**) with
- spacer (**N**) between side wall and clamp
- flat washer (**N2**) x2 on each side of clamp mount hole
- M8 x 45 flange bolt & flange nut (**N1**)



3.2 Harness Installation

Parts List:

RP1022	Harness ECU Power/Cab (D)	Qty 1
RP1030	Harness Tee JD S700 Adapter (E) **	Qty 1
RP1023	Harness Tee JD S600 Adapter (G) **	Qty 1
RP1123	Harness Chopper (H)	Qty 1
RP1024	Sensor Speed Geartooth Hall Effect (J)	Qty 1
RP1125	Sensor Proximity Switch (L)	Qty 1
RP1840	Harness S Series Aux Power Adaptor (R)	Qty 1

** Note: **E** and **G** are only required if ISOBUS (OEM monitor) display is used
- not required for Tablet display option



3.2.1 Slide chopper (A) up to rear most position

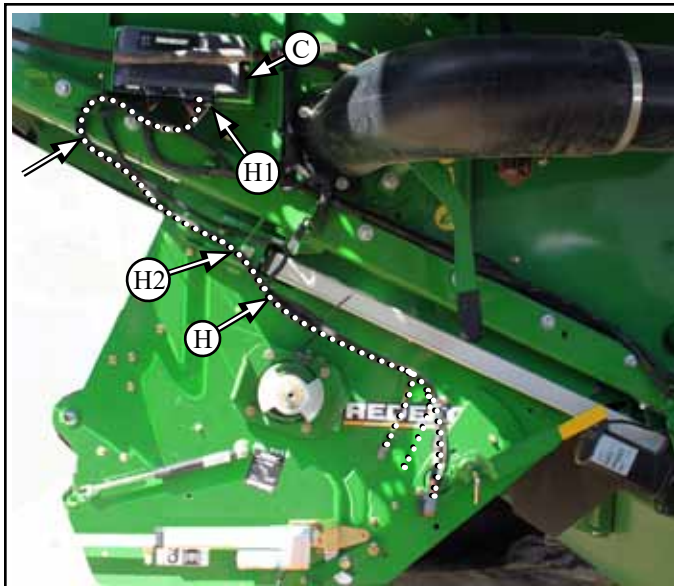


3.2.2 Install tailboard/SCU harness (H)

3.2.2.1 Connect the connector (H1) into ECU (C) receptacle

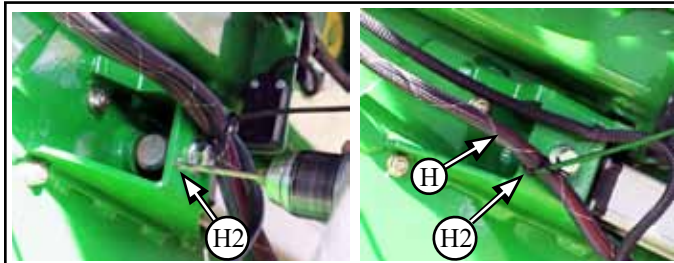
IMPORTANT:

Route and secure harness (H) in such a way that it is not damaged when actuator (A1) is fully extended



3.2.2.2 Drill 7mm (.281") hole at (H2) on actuator mount bracket

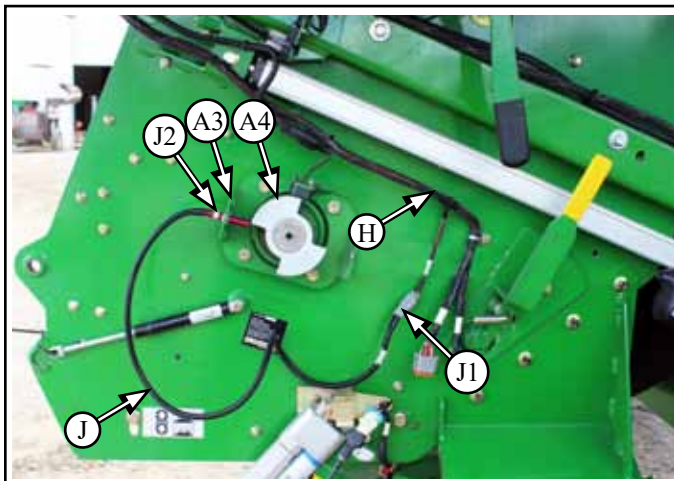
3.2.2.3 Tie harness (H) down through hole (H2)



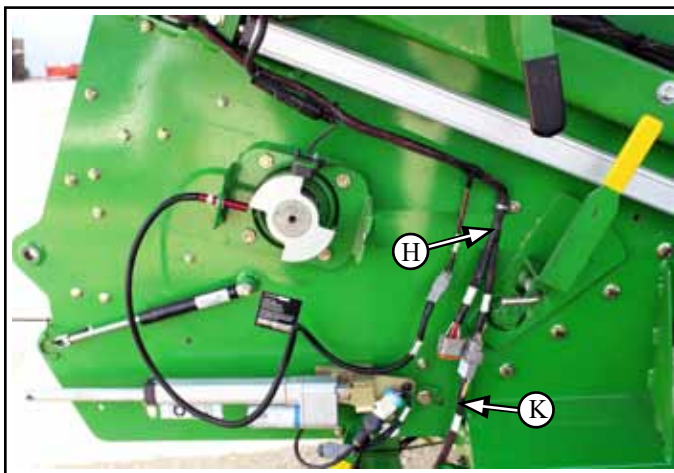
3.2.3 Install speed sensor harness (J)

3.2.3.1 Connect harness (J1) into tailboard harness (H)

3.2.3.2 Connect sensor (J2) to mount bracket (A3) - adjust sensor to be 1-3mm from target (A4)



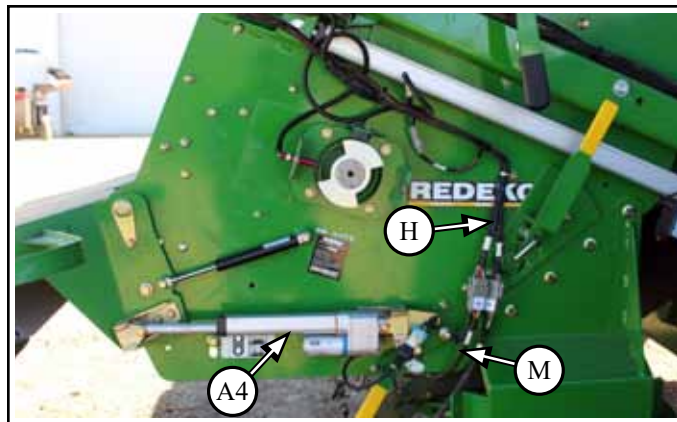
3.2.4 Connect SCU harness (K) into SCU connector on chopper harness (H)



3.2.5 Connect actuator/tailboard harness (**M**) into actuator connector on chopper harness (**H**)

3.2.5.1 Connect into right actuator (**A4**)

3.2.5.2 Connect into actuator on left side



3.2.5.3 Reinstall sensor shield (**A5**) onto mount bracket with:

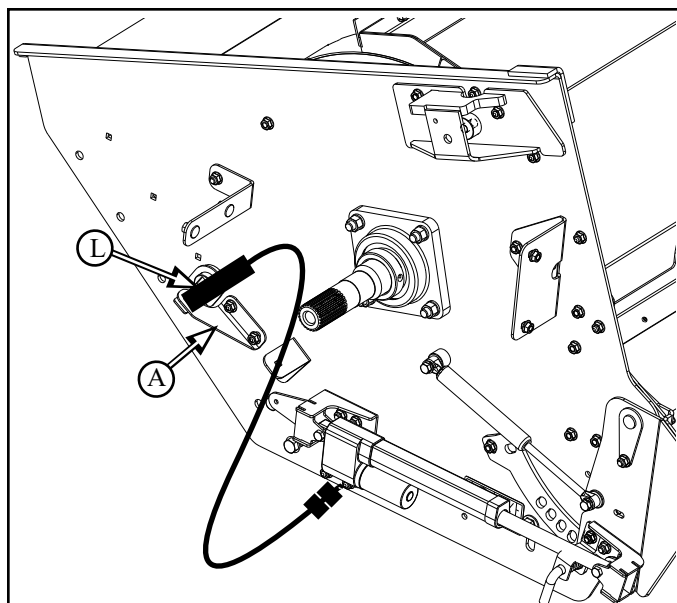
- existing M6 x 16 flange bolts x4



3.2.6 Install proximity sensor switch (**L**) into bracket (**A**) on side wall of chopper

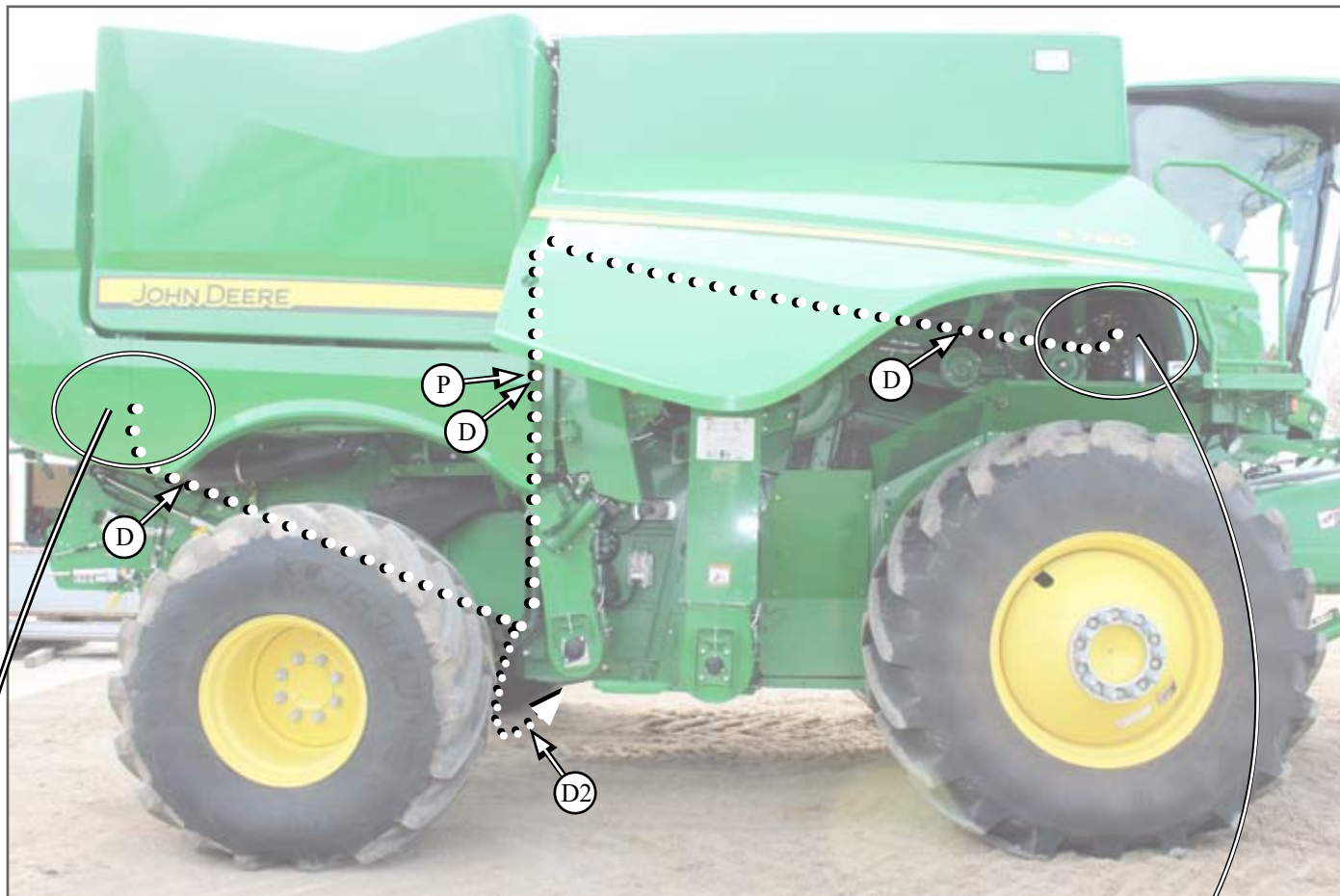
3.2.6.1 Adjust switch to be 3-5mm from door tab on pivot pin

3.2.6.2 Connect into SCU wire harness labeled "Door"

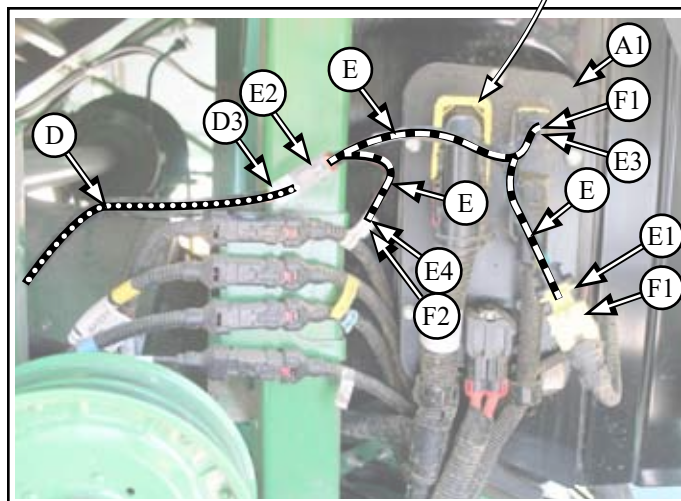
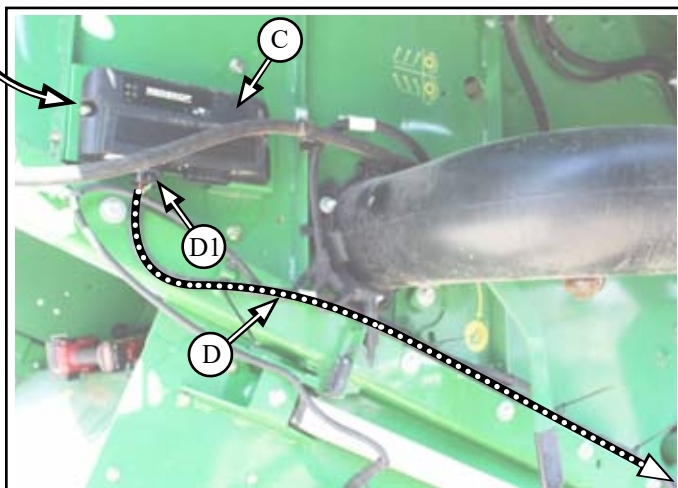


3.2.7 Install ECU power/cab harness (D)

- connect harness (D1) to ECU (C)
- route harness as shown along right side of combine from ECU (C) to module up behind cab
- use cable tie straps to fasten harness to existing harness or hydraulic lines running along side of combine



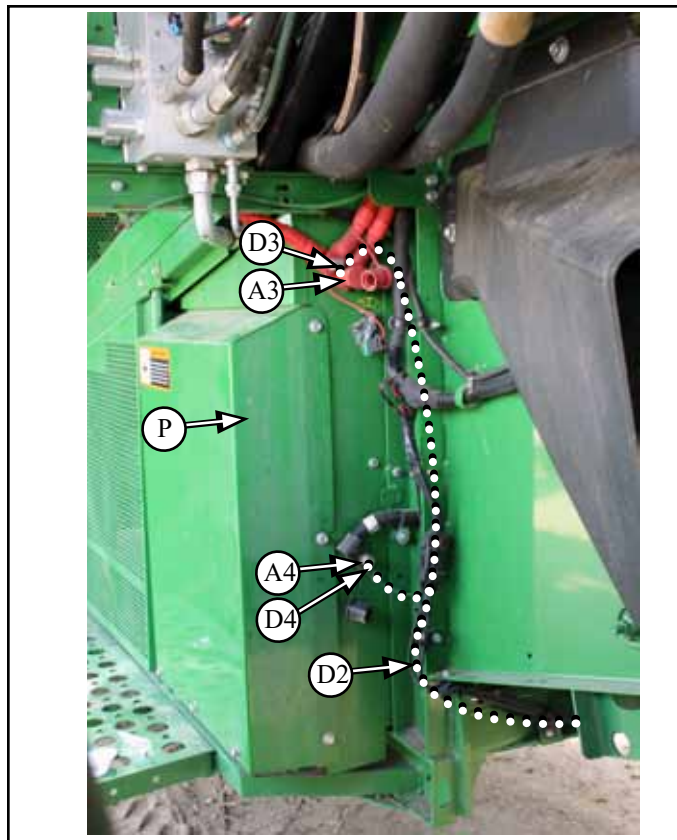
- at TEE in harness, run "power lines" (D2) under rear of combine to left side battery connection
- use cable tie straps to fasten harness to existing harness or hydraulic lines running under the combine
- Do Not connect to battery at this time



S700 Series Shown

ISOBUS Display

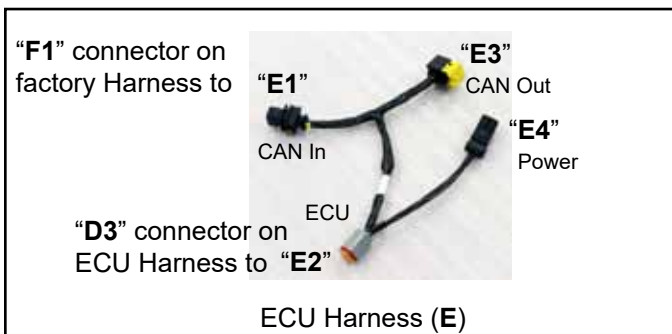
- 3.2.8** Connect power lines (**D2**) to battery terminals
- connect red cable (**D3**) to (+) terminal (**A3**) on battery box (**P**)
 - connect black cable (**D4**) to (-) terminal (**A4**) on battery box (**P**)
 - use cable tie straps to secure harness to existing harness or hydraulic lines



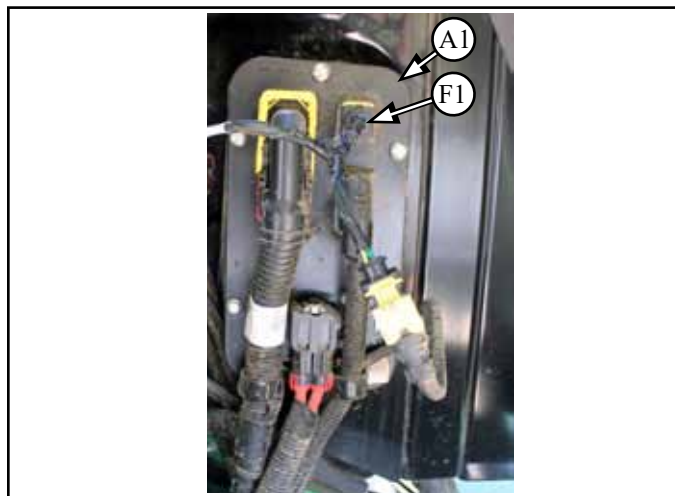
If you have a **S700 Series** Combine and **NOT** using the tablet kit option:

---- **S700 Series** ISOBUS Display ----

3.2.9 Install S700 Series adapter harness (E):

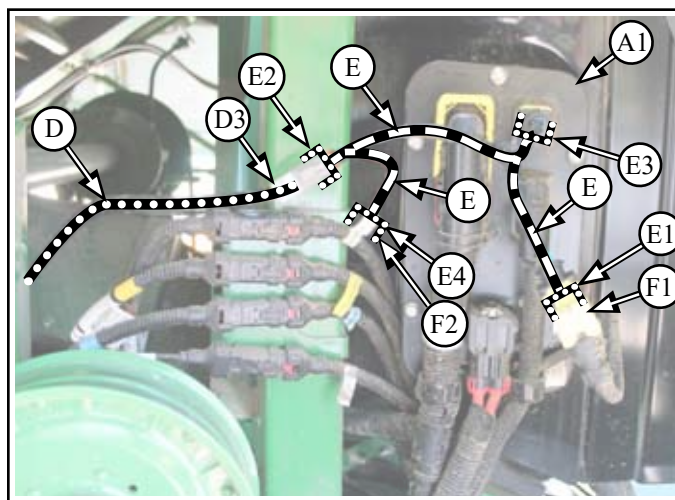


3.2.9.1 Disconnect factory harness/connector (F1) from junction box (A1)



3.2.9.2 Connect:

- connector (F1) to connector (E1)
- connector (D3) to connector (E2)
- connector (E3) into junction box (A1) at original F1 location
- connector (E4) to spare power plug with "Blue" label (F2) in back of pillar



3.2.9.3 If power connector (E4) is in the correct connection, ECU lights (C1) will light up

- if lights do not light up, try connecting E4 to an alternate plug in back of pillar

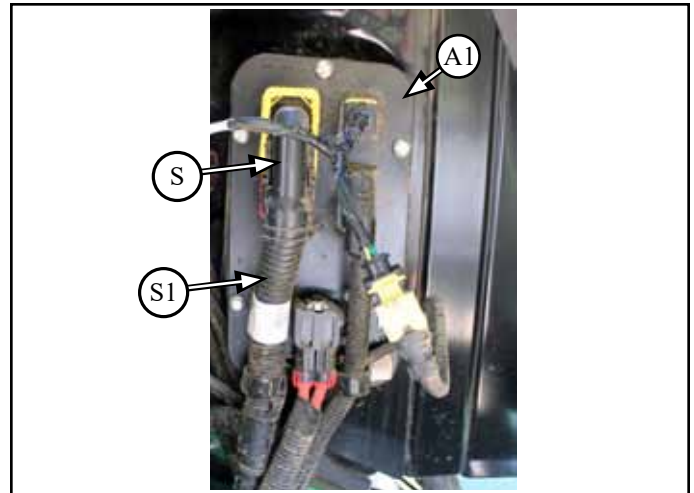
- skip to Software Code Section



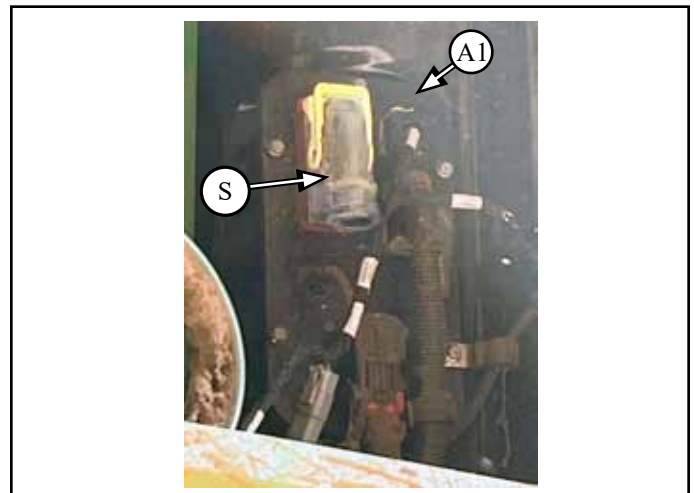
---- **S700 Series South America ISOBUS Display** ----

3.2.10 Identify which electrical connector (**S**) you have in junction box (**A1**) behind cab:

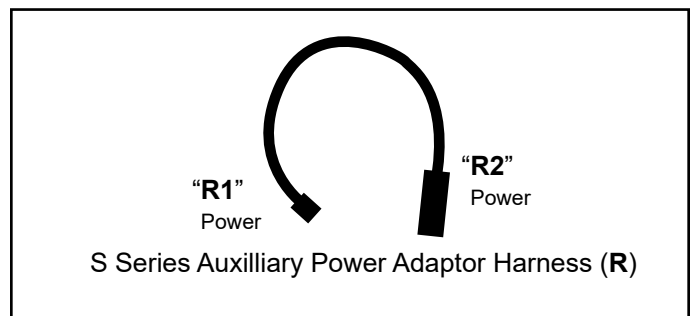
3.2.10.1 If connector (**S**) in junction box (**A1**) has a harness (**S1**) into the connector, follow previous S 700 instructions



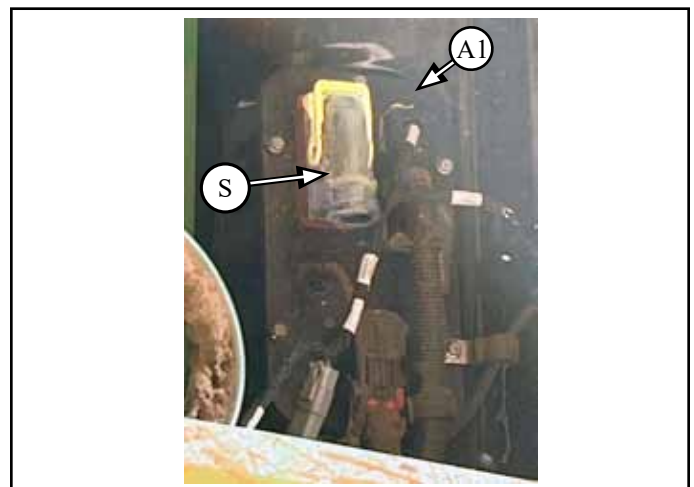
3.2.10.2 If connector (**S**) in electrical panel (**A1**) is empty / does not have a harness (**S1**) into the connector as shown above, follow the instructions in this section



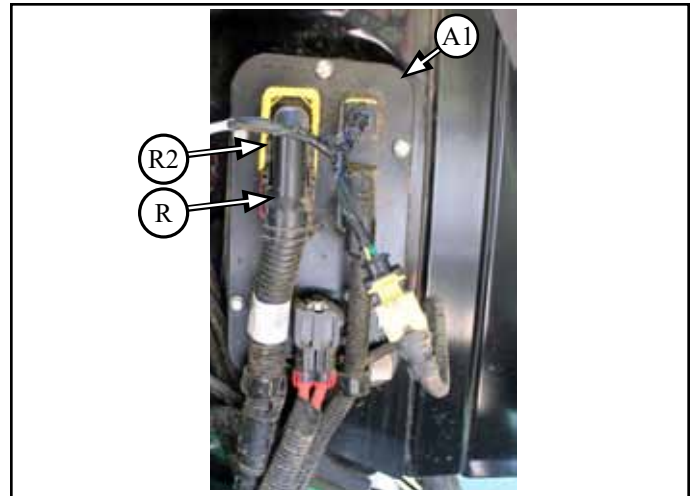
3.2.10.3 Install S Series Aux Power Adaptor Harness (**R**):



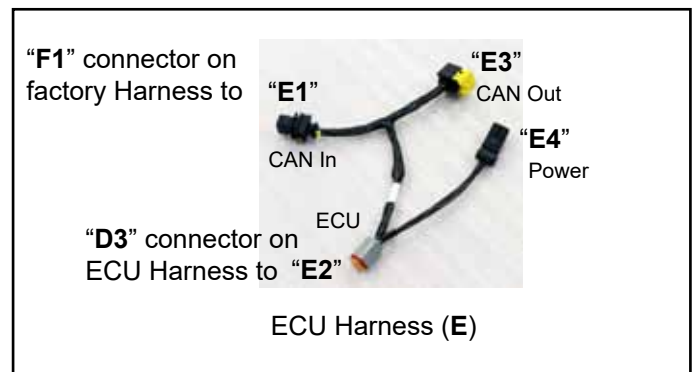
3.2.10.3.1 Remove empty connector (**S**) from electrical panel (**A1**)
- not to be reused



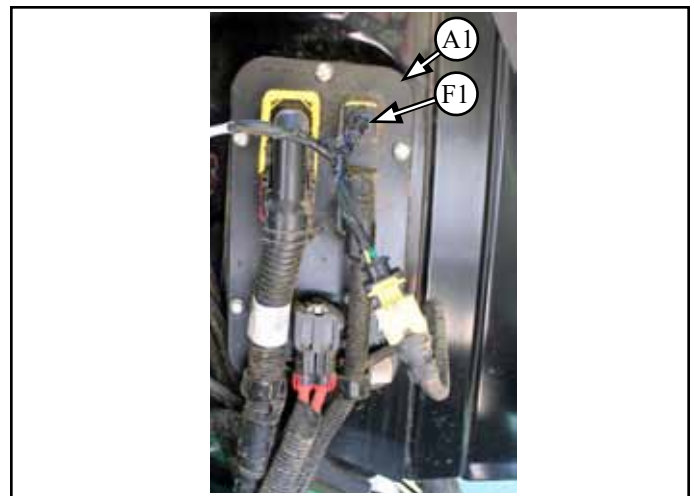
3.2.10.3.2 Install connector (**R2**) from new harness (**R**) into port where empty connector (**S**) was removed from in electrical panel (**A1**)



3.2.10.4 Install S700 Series adapter harness (**E**):

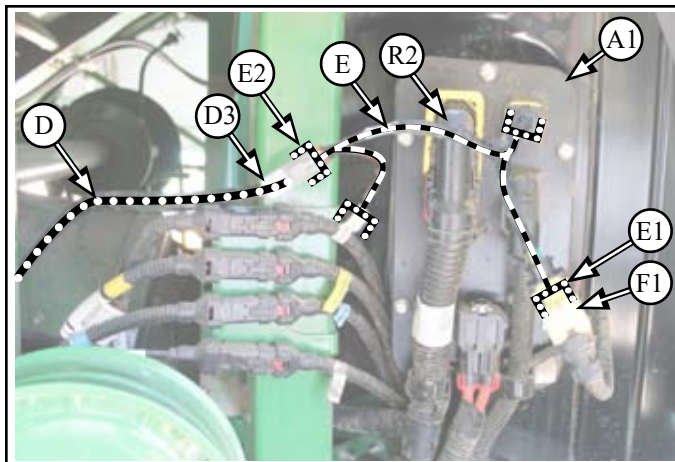


3.2.10.4.1 Disconnect factory connector (**F1**) from junction box (**A1**)

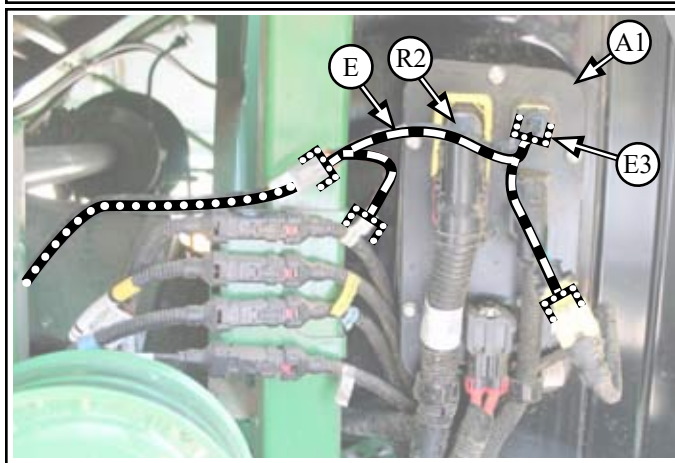


3.2.10.4.2 Connect:

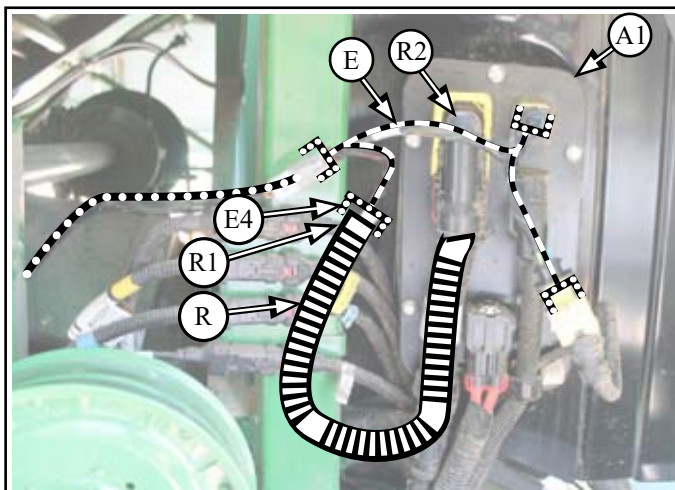
- connector (F1) to connector (E1) on new ECU harness (E)
- connector (D3) to connector (E2) on new ECU harness (E)



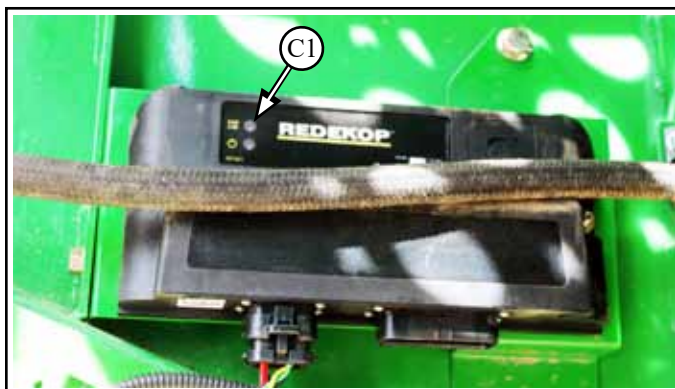
- connector (E3) into junction box (A1) at original F1 location



- connector (E4) to connector (R1) on new adaptor harness (R)



3.2.10.5 If power connector (E4) is in the correct connection, ECU lights (C1) will light up



If you have a **S600 Series** Combine and **NOT** using the tablet kit option:

---- **S600 Series** ISOBUS Display ----

3.2.11 Install S600 Series (G) adapter harness:

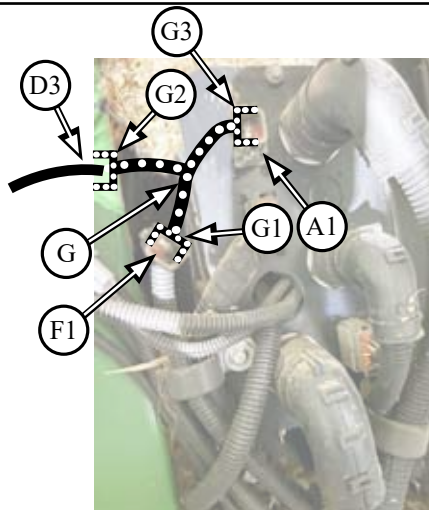
3.2.11.1 Disconnect factory harness/connector (F1) from junction box (A1)



600 Series Adapter Harness (G)

3.2.11.2 Connect:

- connector (F1) to connector (G1)
- connector (D3) to connector (G2)
- connector (G3) into junction box (A1) at original F1 location



3.2.11.3 If power connector is in the correct connection, ECU lights (C1) will light up

- if lights do not light up, try connecting to an alternate plug in back of pillar

- skip to Software Code Section



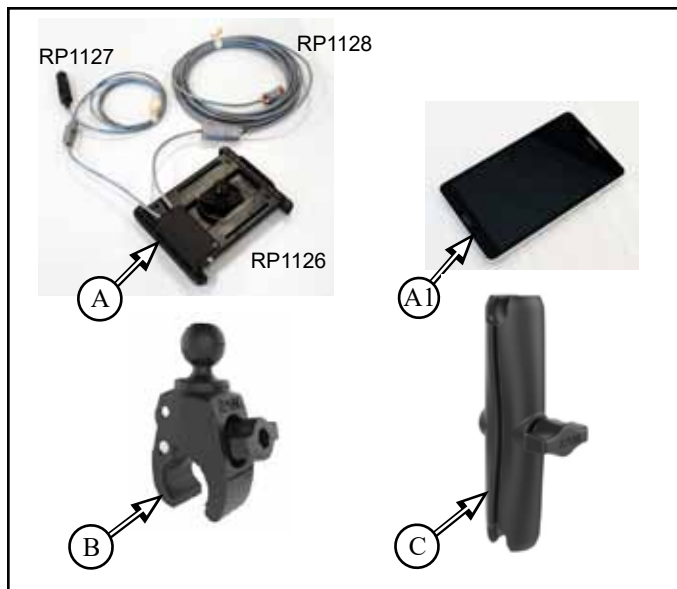
4 Tablet Installation

Required if Tablet option is purchased in place of OEM ISOBUS Display to view SCU and Chopper operation

4.1 Tablet Mount Assembly

Parts List:

RP1126A	Mount, Harness Assy (A)	Qty 1
RP1065	Tablet 8 in (A1)	Qty 1
RP1234	RAM Mount Small Clamp w/ Ball (B)	Qty 1
RP1229	RAM Mount Double Socket (C)	Qty 1



4.1.1 Assemble the double socket bracket (C) to clamp bracket ball (B)

4.1.2 Assemble the double socket bracket (C) to the tablet ball (A), tighten with knob (C1)



Prior to installation in combine - check for a software update for Redekop Controller application. See operator's manual section 4.4

4.1.3 Mount tablet, cradle assembly onto inside of combine at desired location and locking into place. Adjust angle of tablet for best viewing and lock into place.

See operator's manual for operation of tablet

Refer to Operators Manual for setup of Redekop Run Screen

4.2 Software Codes for Tablet and ISO BUS

To install the appropriate parts of the software, the following codes have to be entered

Select the option you want to install

Select “Uninstalled” beside option



Screen defaults to code input screen displaying 00000



To enter new code, select numbers on sidebar, code will display in center of screen.

SCU Code: 53235

Tailboard Actuator Code: 22114



Option now states “Installed”



5 John Deere Combine Software Configuration

Configure Software in Display

If combine has a chopper with powercast tailboard or Advanced Powercast

- 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

5.1 S600 Series Combine

Procedure to reconfigure software:

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

5.1.1 Select main menu icon



5.1.2 Select message center icon



5.1.3 Select address icon



5.1.4 Select devices



5.1.5 Scroll down / select CAB.001



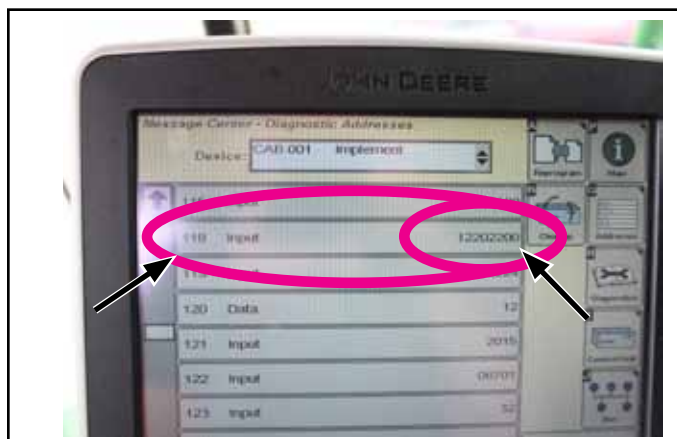
5.1.6 Scroll down to line #118

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

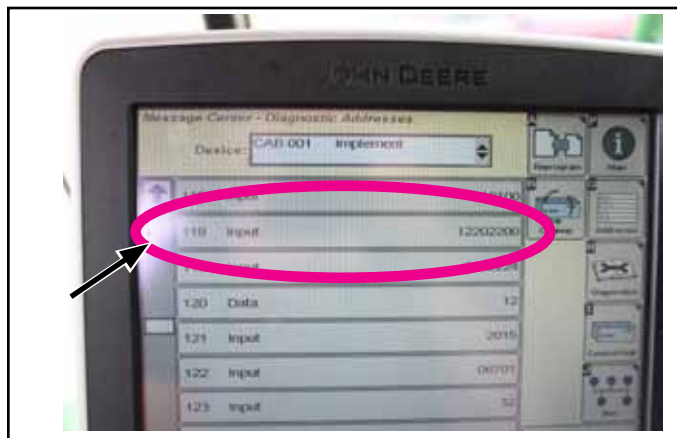
or

5.1.6 Scroll down to line #112

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



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



5.1.8 Select edit mode to input new number



5.1.9 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

5.1.10 Select accept



5.1.11 New number now displays

5.1.12 Select accept icon to save the change



5.1.13 Select home icon



5.2 S700 Series Combine

Procedure to reconfigure software:

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

5.2.1 Select menu icon



5.2.2 Select system

5.2.2.1 Select diagnostics center



5.2.3 Select controller diagnostics



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



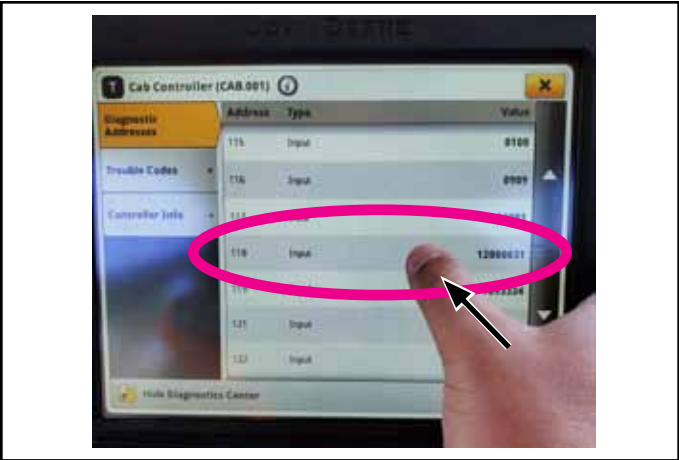
5.2.5 Scroll down to line #118 and select it

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

or

5.2.5 Scroll down to line #112 and select it

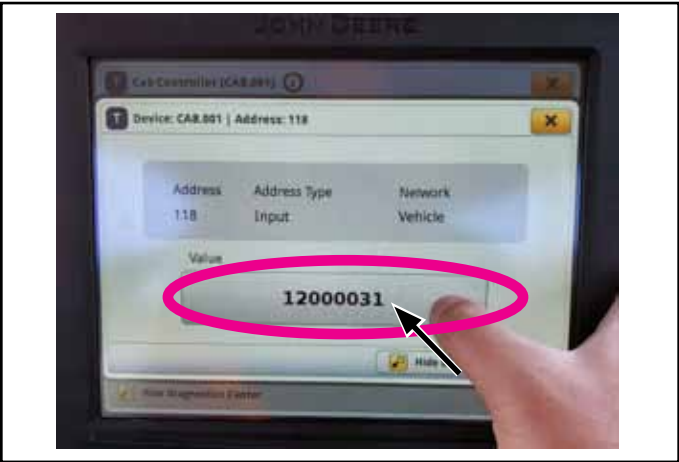
**** RECORD Number shown on display at line #112 ****



5.2.6 John Deere Tailboard Software Addresses for Reference

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

5.2.7 Select value to input new number



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

or

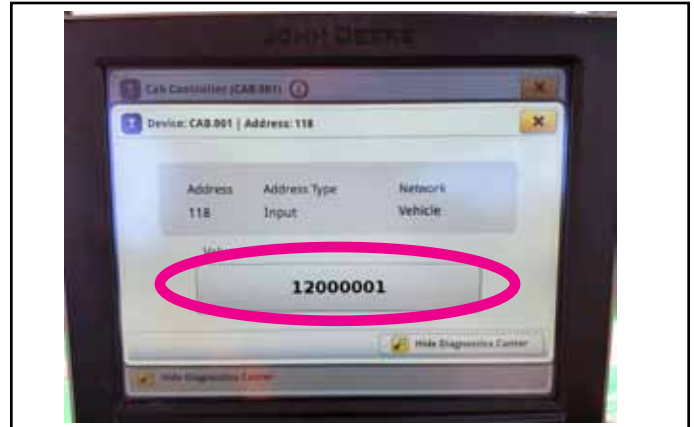
For line #112 - change 4th last number to a 1

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

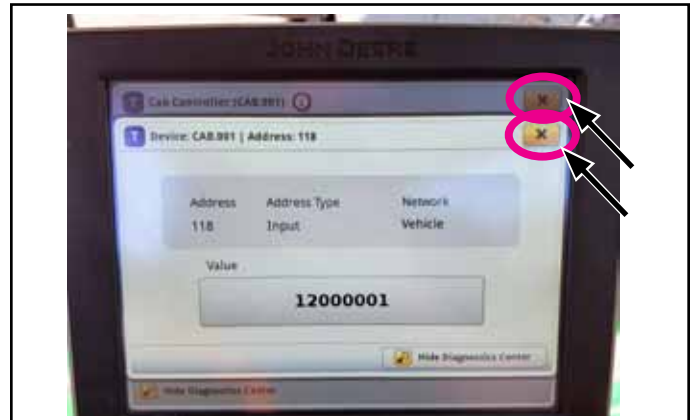
5.2.9 Select OK



5.2.10 New number now displays



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



5.2.12 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.

SCU JD S Series

6 Final Installation Checklist



6.1 All tools removed from tires and inside of combine



6.2 All tools removed from SCU, straw chopper and tailboard



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



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

6.5 ☐ Rotate SCU rotors by hand to ensure all rotors rotate freely

	Installed/Modified	Torqued	
6.6 3 Rib PTO Sheave replaced with 4 Rib Sheave	☐	☐	
6.6.1 PTO to Jackshaft Drive Belt	☐	☐ Tensioned	☐ Aligned
6.6.2 Chopper drive belts	☐	☐ Tensioned	☐ Aligned
6.6.3 Jackshaft drive sheave modified - XFC only	☐	☐	
6.6.4 SCU Belt Tensioner tension rod in correct link hole	☐		
6.6.5 Low speed Sheave on OEM shifter (inner sheave)	☐	☐	
6.6.6 Highspeed Sheave on OEM shifter (outer sheave)	☐	☐	
6.6.7 Chopper Sheave (single belt drive)	☐	☐	
6.6.8 Shifter assembly with new sheaves on chopper	☐	☐	
6.6.9 SCU Sheave is in correct orientation	☐	☐	
6.6.10 SCU Drive Belt	☐	☐ Tensioned	☐ Aligned
6.11 ☐ OEM Hitch modified	6.17 ☐ Harnesses routed to allow for movement		
6.12 ☐ Chaff door proximity sensor parallel with door	6.17.1 ☐ Harnesses installed with no pinch point and avoids moving parts and abrasive edges		
6.13 ☐ South America only: Beater floor cover kit installed	6.18 ☐ Hydraulic fittings and lines - all tight with no leaks		
6.14 ☐ Drive Shields installed	6.19 ☐ Cab monitor software is reconfigured		
6.15 ☐ Axle stops installed	6.20 ☐ Redekop page added to run screens		
6.16 ☐ Scooped Tailboard Fin replaced	6.21 ☐ Ran in low speed upon startup and listened for clearance problems		
	6.22 ☐ Run in high speed @ operative engine speed		

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.

Notes:

REDEKOP MANUFACTURING

1.866.REDEKOP (1.866.733.3567)

Saskatoon, Saskatchewan Canada S7K 3J7

info@redkopmfg.com

www.redkopmfg.com

REDEKOPTM

For additional and the most up to date Manuals:



EQR002

REDEKOPTM