REDEKOP™

ACTUATED TAILBOARD
WITH TABLET CONTROL
FOR JD S600, S700, S7
CR DOT SERIES MAV CHOPPER
INSTALLATION MANUAL

PRODUCT NUMBER: **390-190**
390-191
390-192
850-102
850-109

CD0325-01_R4

Actuated Tailboard with Tablet Control for JD & CR MAV Chopper

Table of Contents

Read and Understand This Manual Before Operating This Machine

- Learn how to operate and service the machine correctly. Failure to do so could result in personal injury or equipment damage. Redekop will not accept any responsibility for any damage or malfunctions resulting from failure to comply with the operator's manual.

- This manual provides descriptions of as well as operating and maintenance instructions. This may include accessories or optional equipment not included on your machine. This is to be kept in mind when reading this manual.

- If you do not understand the information in this manual, or if you have questions, contact Redekop Customer Service.

- This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

- Right-Hand and Left-Hand sides are determined by facing the direction of travel

- Redekop reserves the right to alter illustrations and technical data contained in this manual.

- The contents of this manual are intellectual property of Redekop. All use and/or reproduction not specifically authorized by Redekop is prohibited.

- All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. Redekop reserves the right to make changes at any time without notice.

- This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

ATTENTION!
Low Battery or alternator voltage can cause system errors

0 Safety

0.1 Instructions

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

This instruction manual explains the proper procedure for operating the Redekop Seed Control Unit.

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 operator's 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.

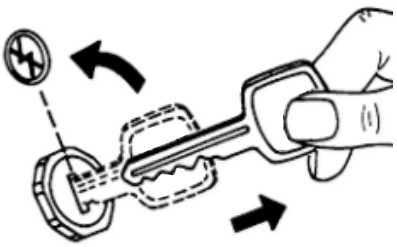
Never leave combine unattended as long as engine is running.

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. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

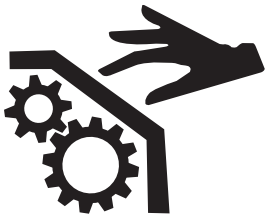
Keep hands, feet and clothing away from power-driven parts. Tie long hair behind your head. Do not wear rings, jewelry, a necklace, a necktie, scarf, or loose clothing when you work near machine or moving parts. If these items were to get caught, severe injury could result.

Securely support any Seed Control Unit 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 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.

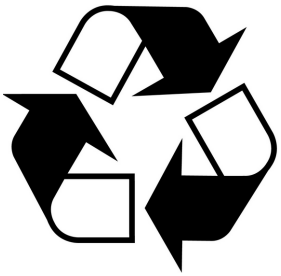
Escaping fluid under pressure can penetrate the skin causing serious injury.

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 Seed Control Unit damage.

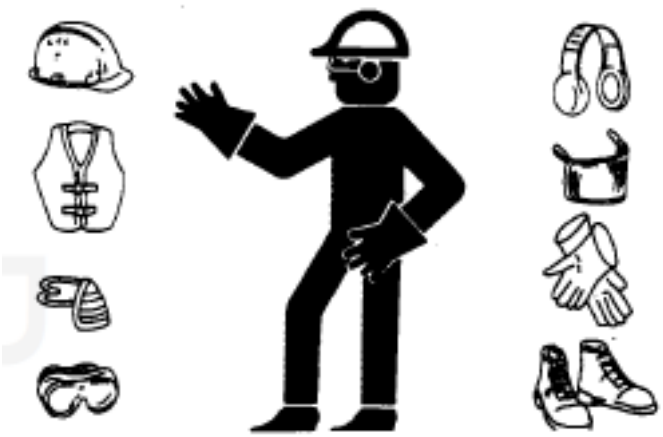
Follow recommended procedure for removal and installation of components in the manual.

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!

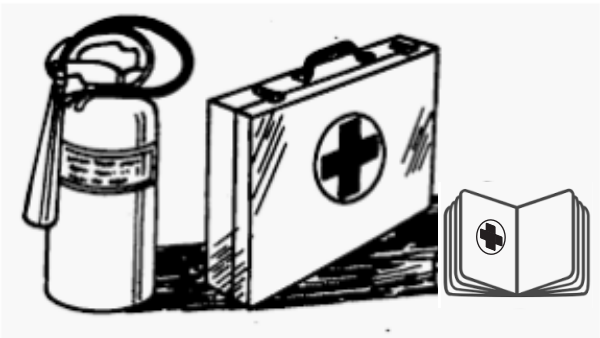
Interference with speech communication, acoustic signals is possible.

0.17 Prepare for Emergencies

0.17.1 Be prepared if a fire starts.

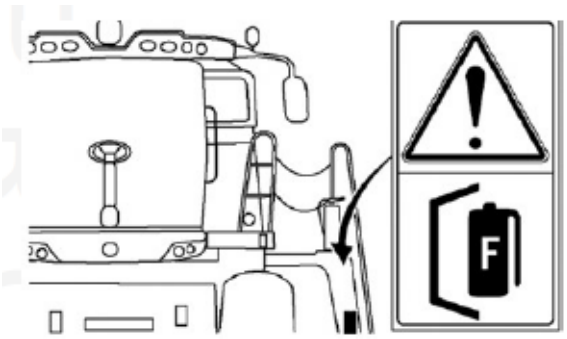
Keep a first aid kit and fire extinguisher handy.

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 extingisher'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!
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 guidlines:

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. Pull the safety pin out of actuating lever.
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)

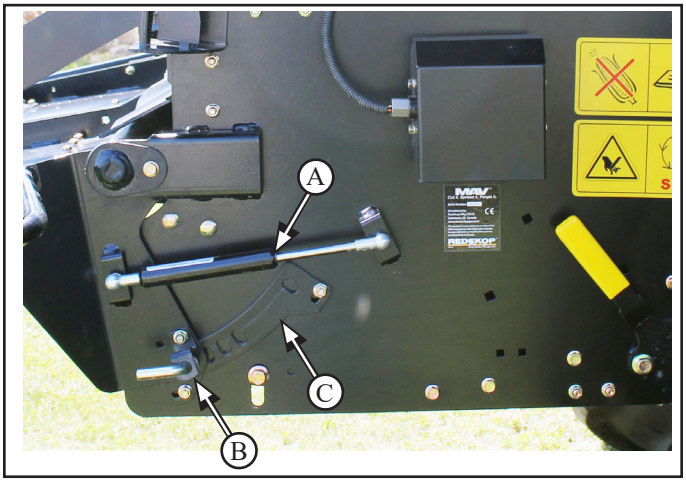
1 If your tailboard is manually controled:

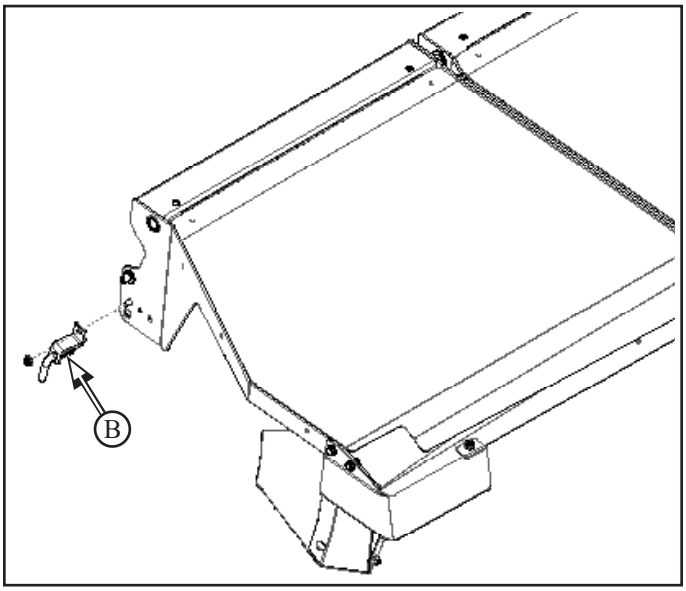
Caution - Pinch Hazard

1.1.1 Remove gas spring (**A**) from the tailboard and chopper housing
- both sides

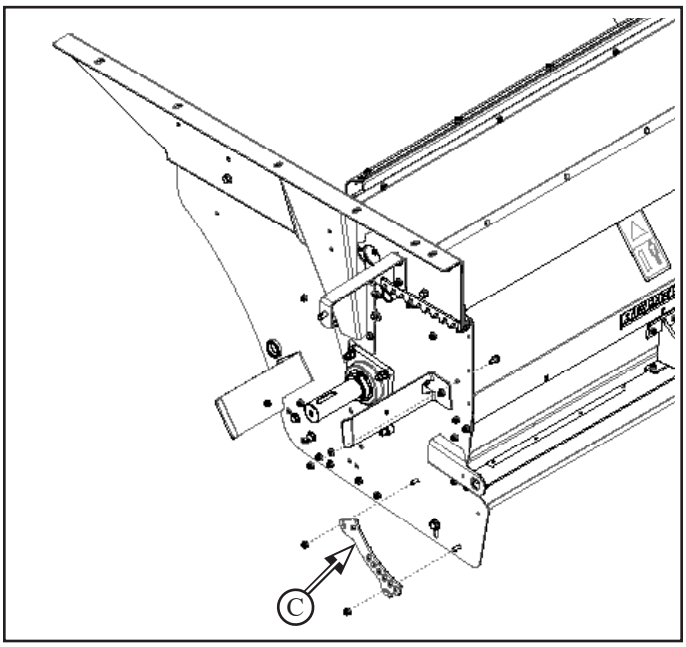
1.1.2 Block the tailboard up securely

1.1.3 Remove adjustable latch assembly (**B**) from the tailboard
- both sides



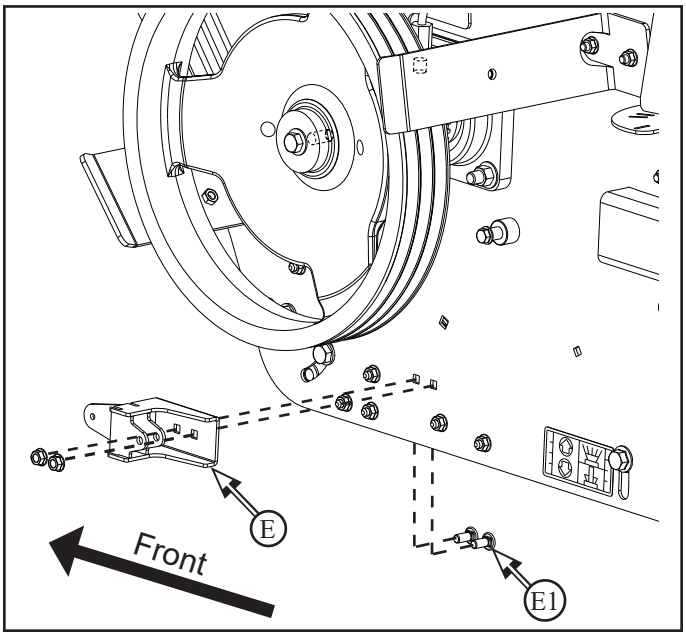


1.2 Remove tailboard adjustment lug (**C**) from the chopper housing
- both sides

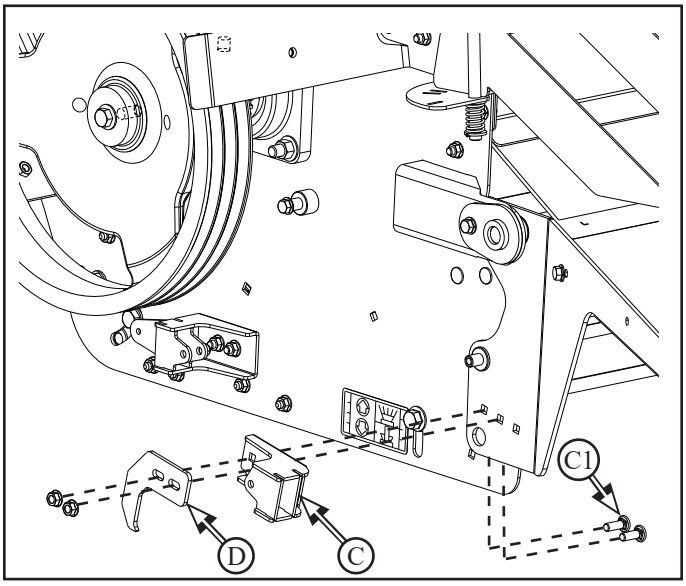


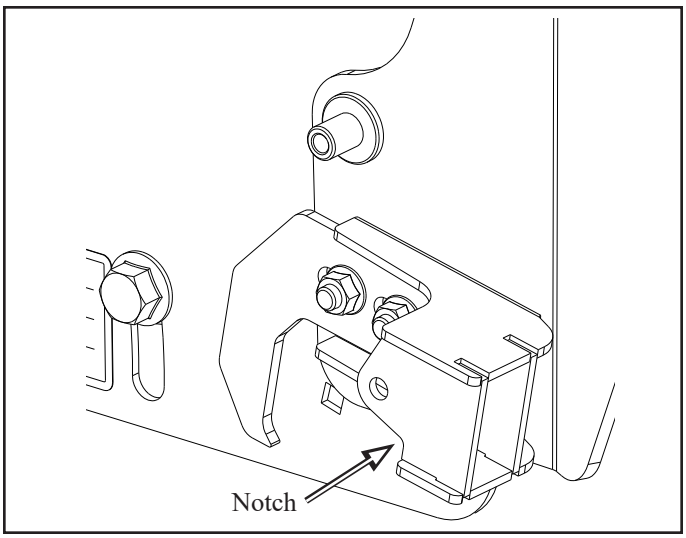
2 Actuator Component Installation

2.1 Install actuator chopper mount bracket (**E**) onto left side of chopper with:
- M8 x 20 round head bolts and flange nuts (**E1**) x2
- both sides

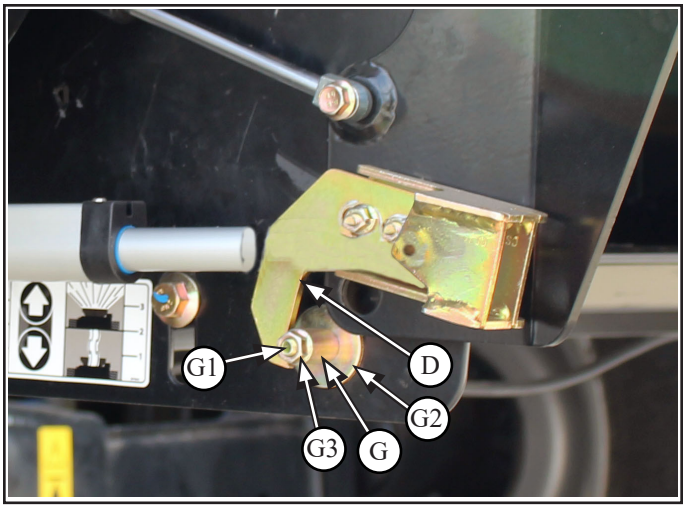


2.2 Install left actuator tailboard mount bracket (**C**) and hook (D) onto tailboard, with:
- M8 x 25 round head bolts and flange nuts (**C1**) x2
- ensure mount bracket has notch on bottom
- both sides





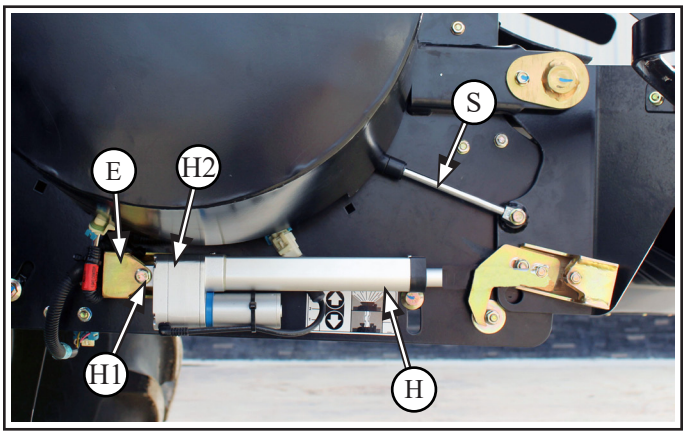
2.3 With the tailboad down, on the inside of the hook (**D**) install limiter pin (**G**) onto left chopper wall with:
- M8 x 40 round head bolt (**G1**)
  - head of bolt to be on inside of chopper
- flat washer (**G2**)
- limiter tube (**G**)
- lock nut (**G3**)
- both sides



2.4 Install actuators (**H**)

2.4.1 Install base (**H2**) of actuator into chopper bracket (**E**) with:
- M8 x 40 flange bolt and lock nut (**H1**)
- both sides

2.4.2 Shaft of actuator will be installed onto tailboard bracket once the electronics have been connected and setup for it will be required to be adjusted by the tablet



3 Electronics Installation - John Deere

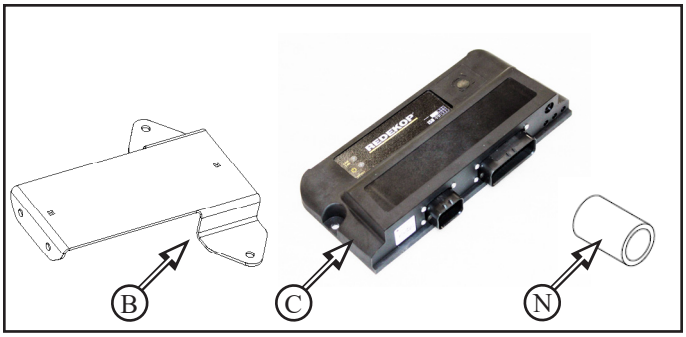
3.1 S600 & S700 Combine

(for S7 Combine, see section 3.2)

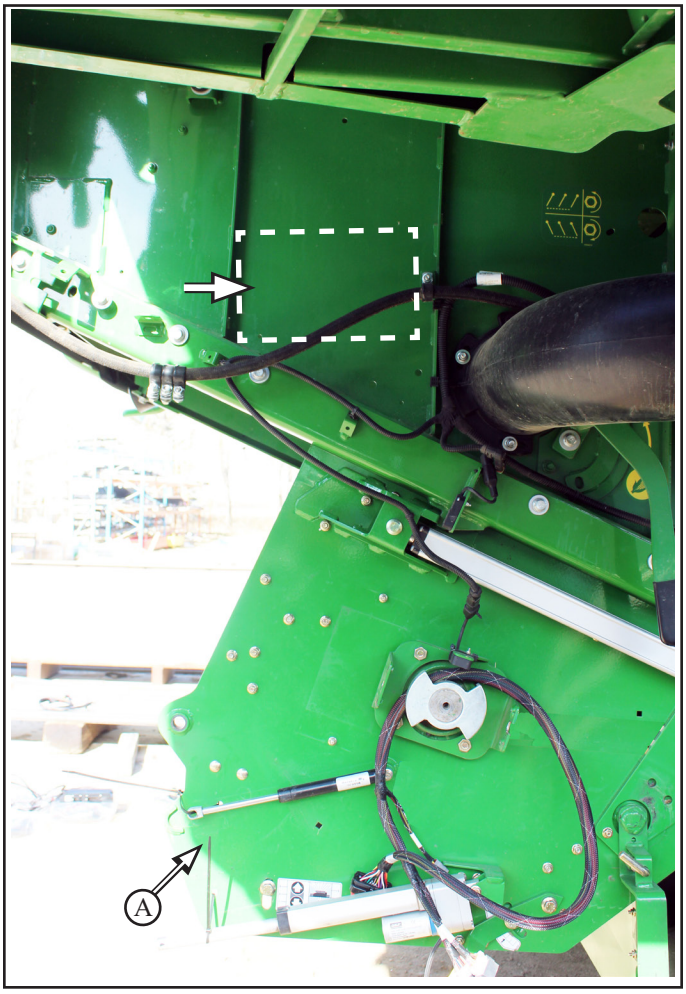
3.1.1 ECU Installation - S600 & S700

Parts List:

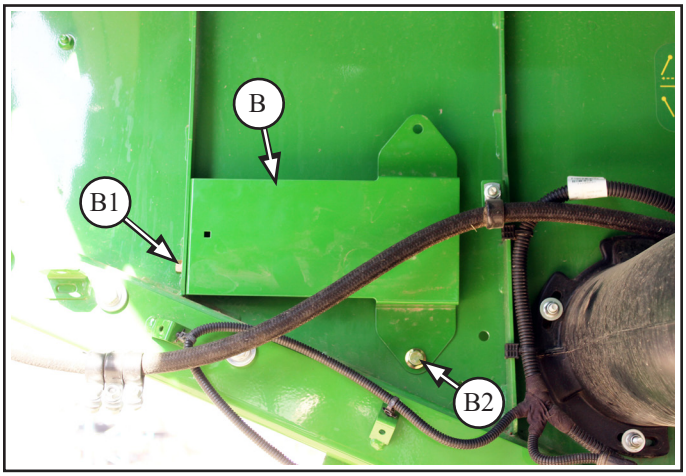
SC297G	Bracket ECU Mount JDS (**B**)	Qty 1
RP1021	ECU Tailboard/SCU (**C**)	Qty 1
CS856Z	Spacer (**N**)	Qty 1



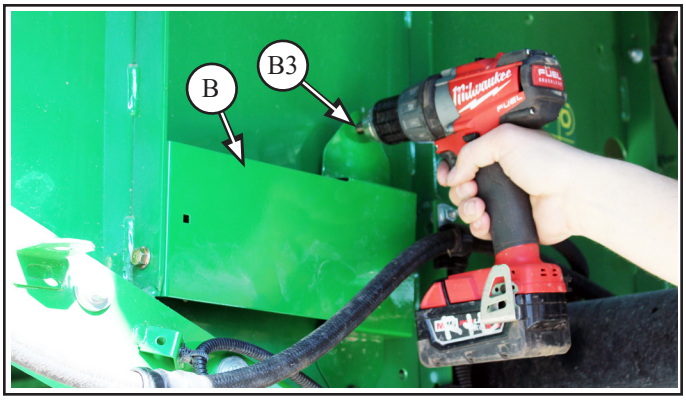
3.1.1.1 Install ECU mount bracket (**B**) onto right-hand rear side wall of combine above chopper (**A**)



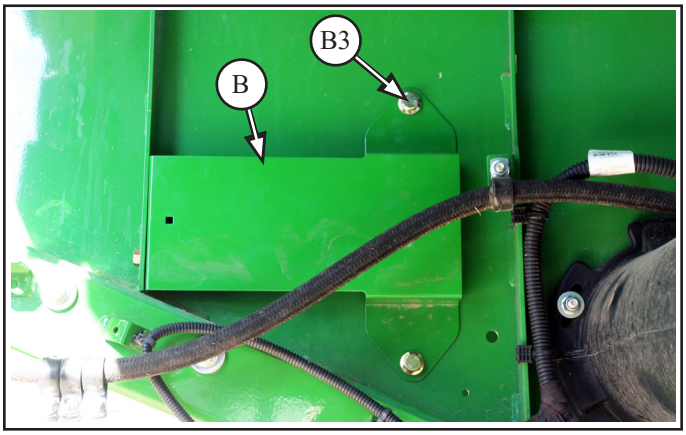
3.1.1.2 Install bracket (**B**) into existing holes with:
- M8 x 20 flange bolt and nut (**B1**)
- M10 x 20 flange bolt and nut (**B2**)



3.1.1.3 Drill 10mm (0.39 in) hole (**B3**) through tab on mount plate (***B***) through combine wall



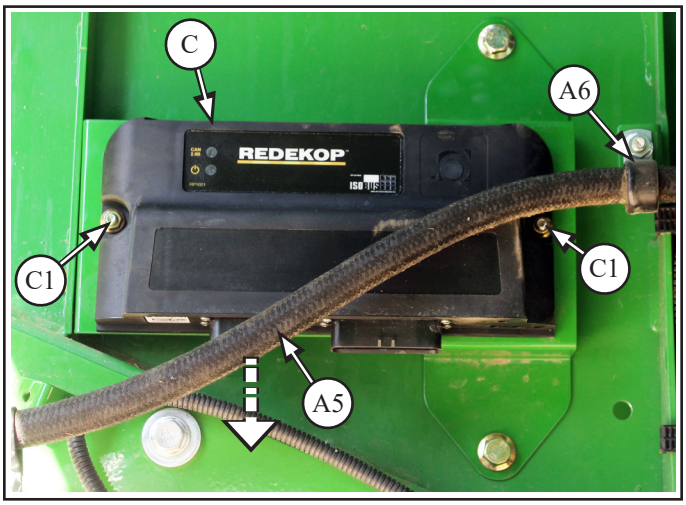
3.1.1.4 Mount tab to combine wall with:
- M10 x 20 flange bolt and nut (**B3**)



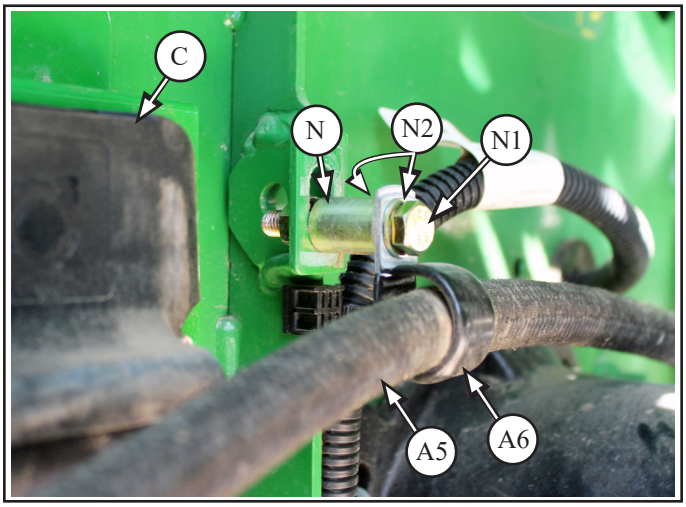
3.1.1.5 Install ECU (**C**) onto mount plate (**B**) with:
- M6 x 16 round head bolt and flange nut (**C1**) x2
- ensure that connector receptacles of the ECU are facing downward (see arrows)

3.1.1.6 To avoid contact between the fuel line (**A5**) and the ECU (**C**)

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



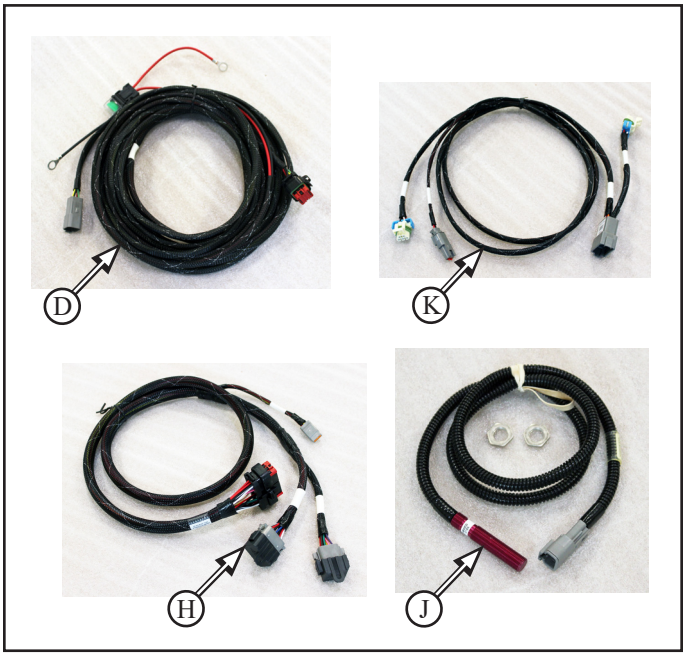
3.1.1.6.2 Reinstall clamp (**A6**) with
- spacer (**N**) between side wall and clamp
- flat washer (**N2**) x2 on each side of clamp mount hole
- M8 x 45 flange bolt & flange nut (**N1**)



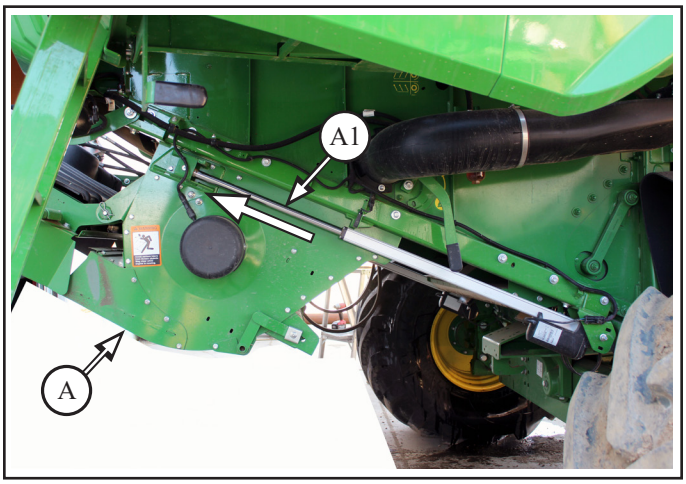
3.1.2 Harness Installation - S600 & S700

Parts List:

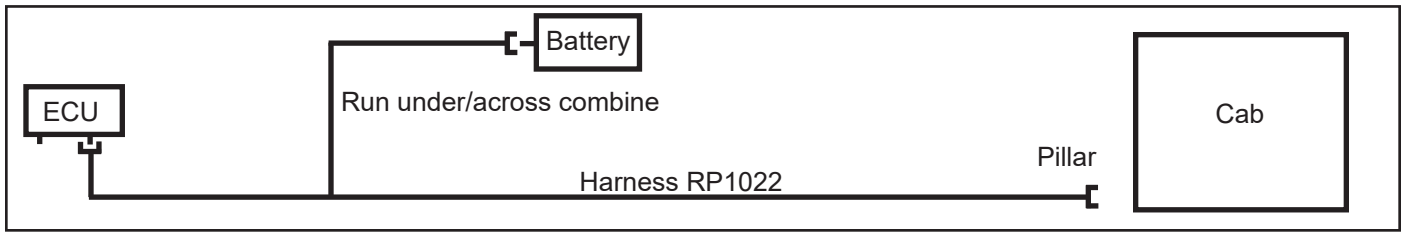
RP1022	Harness ECU Power/Cab (**D**)	Qty 1
RP1061	Harness Actuator/Tailboard (**K**)	Qty 1
RP1123	Harness ECU / Chopper (**H**)	Qty 1
RP1124	Sensor Speed Geartooth Hall Effect (**J**)	Qty 1

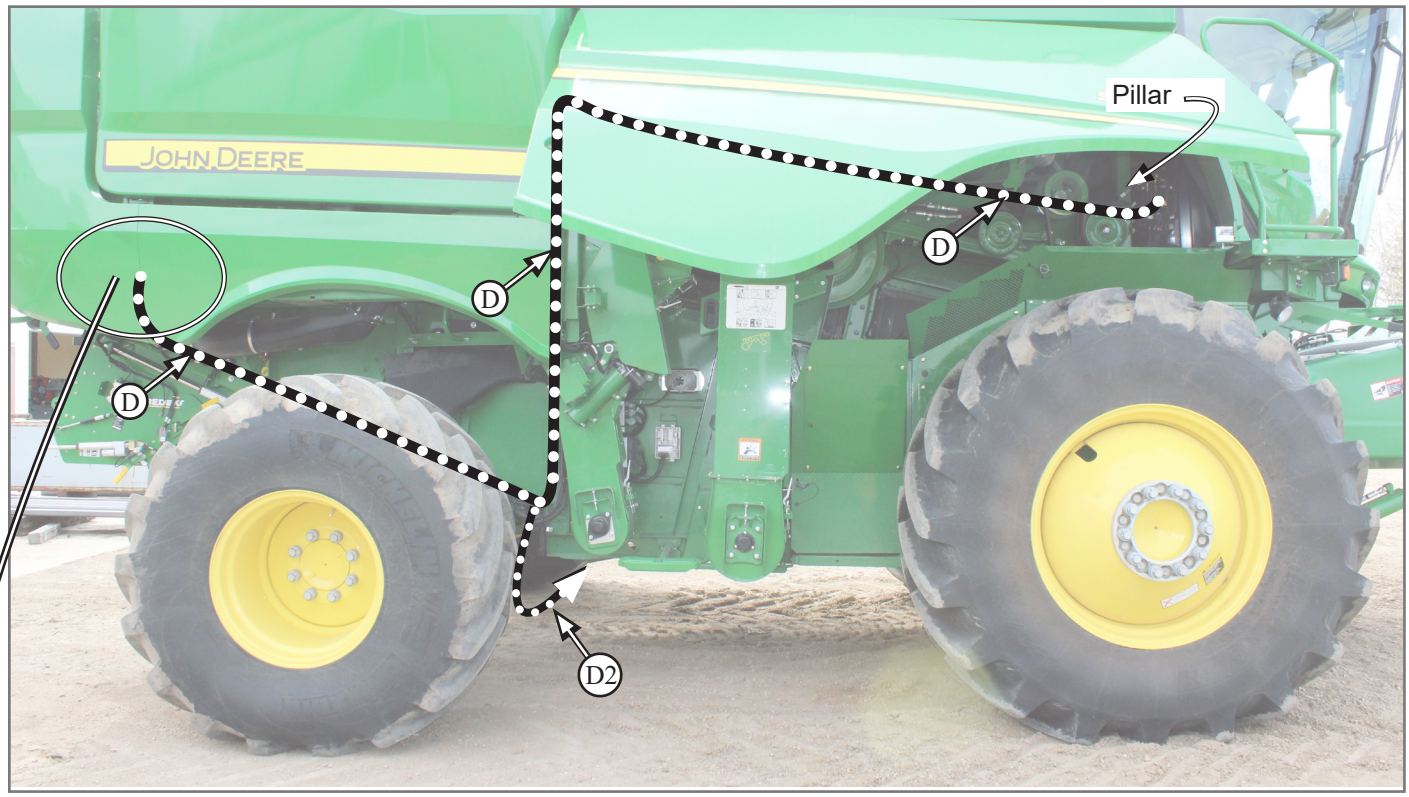


3.1.2.1 Fully extend the actuators (**A1**) and set the chopper (**A**) to its most rear position

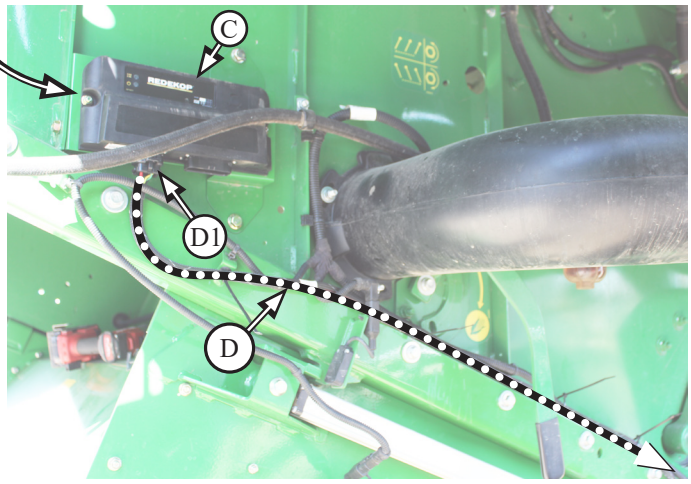


3.1.2.2 Install ECU power/cab harness
- connect harness (**D1**) to ECU (**C**)
- route harness (**D**) as shown along right side of combine from ECU (**C**) to pillar behind cab
- use cable tie straps to secure harness to existing harness or hydraulic lines running along side of combine

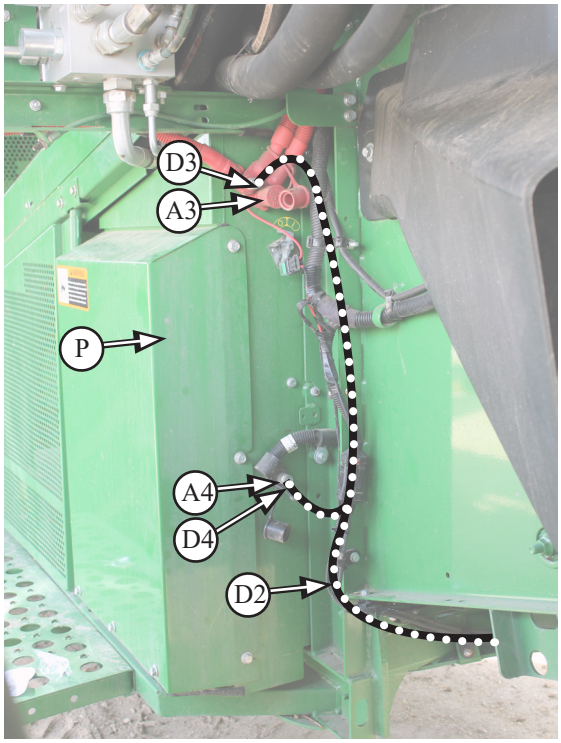




- at TEE in harness, route “power lines” (**D2**) underneath the combine up to the battery box on the left-hand side
- use cable tie straps to secure harness to existing harness or hydraulic lines running under the combine
- Do Not connect to battery at this stage



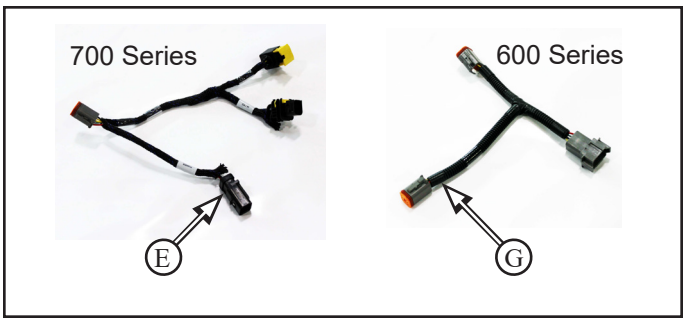
3.1.2.3 Connect power lines (**D2**) to battery terminals
- connect red cable (**D3**) to (**+**) terminal (**A3**) on battery box (**P**)
- connect black cable (**D4**) to (**-**) terminal (**A4**) on battery box (**P**)
- use cable tie straps to secure harness to existing harness or hydraulic lines



3.1.3 ISO BUS Control Installation - S600 & S700

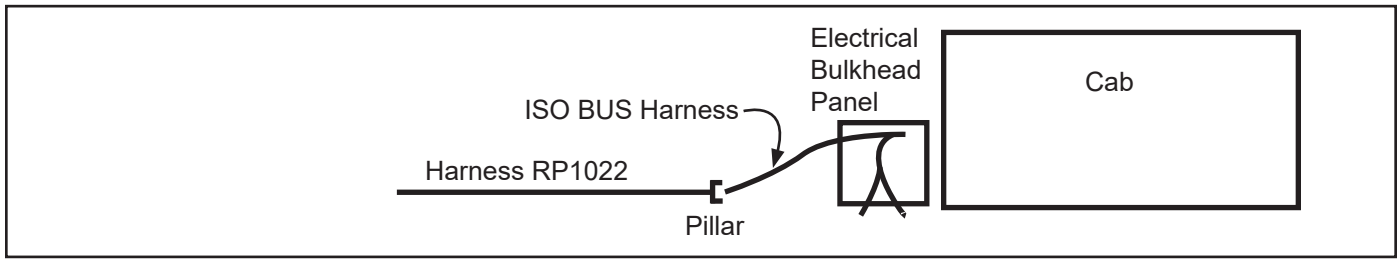
Parts List:

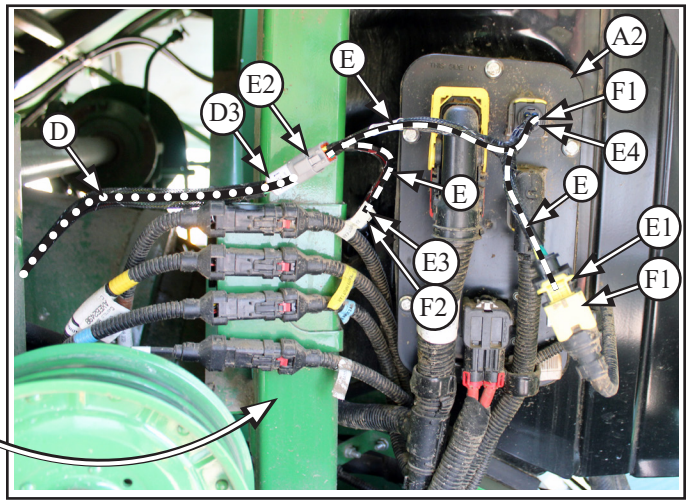
RP1030	Harness Tee JD S700 Adapter (**E**)	Qty 1
RP1023	Harness JD 600 Adapter (**G**)	Qty 1



3.1.3.1 Install ISO BUS harness

- behind cab, connect ISO BUS harness (**E** or **G**) into electrical bulkhead panel and main harness (**D**) as shown





S700 Series Shown

REDEKOP™

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

---- **S700 Series** ISO BUS Display ----

3.1.3.2 Install S700 Series adapter harness (**E**):
- disconnect factory harness/connector (**F1**) from junction box (**A2**)

- connect factory harness/connector (**F1**) to S700 Series adapter harness (**E**) connector (**E1**) (CAN In)

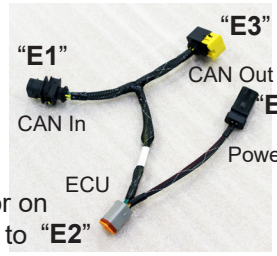
- connect ECU/power/cab harness/connector (**D3**) to S700 Series adapter harness (**E**) connector (**E2**)(ECU)

- connect S700 Series adapter harness (**E**) connector (**E3**) (CAN Out) to spare power plug with “Blue” label (**F2**) in back of pillar

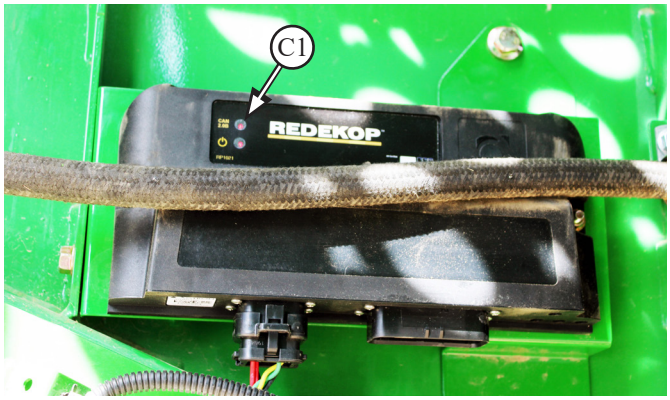
- connect S700 Series adapter harness (**E**) connector (**E4**) (Power) into junction box (**A2**) at original **F1** location

3.1.3.2.1 If power connecter (**E3**) is in the correct connection, ECU lights (**C1**) will light up
- if lights do not light up, try connecting **E3** to an alternate plug in back of pillar

“**F1**” connector on factory Harness to “**E1**”



700 Series Adapter Harness (E)



---- 600 Series ----

3.1.3.3 Install 600 Series (**G**) adapter harness:
- disconnect factory harness/connector (**F1**) from junction box (**A2**)

- connect factory harness/connector (**F1**) to 600 Series adapter harness (**G**) connector (**G1**)

- connect ECU/power/cab harness/connector (**D3**) to 600 Series adapter harness (**G**) connector (**G2**)

- connect 600 Series adapter harness (**G**) connector (**G3**) into junction box (**A2**) at original **F1** location

Junction Box

ECU Harness

“**F1**” connector on factory Harness

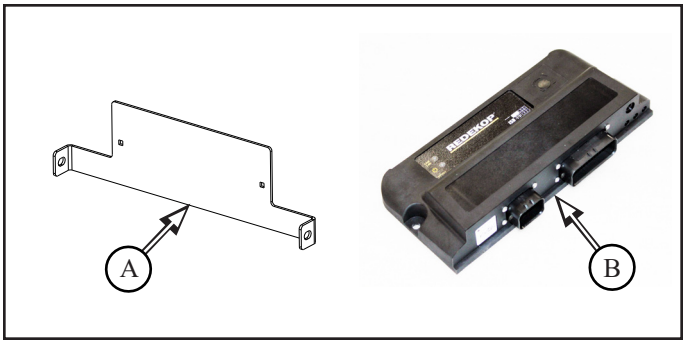
600 Series Adapter Harness (G)

3.2 S7 Combine

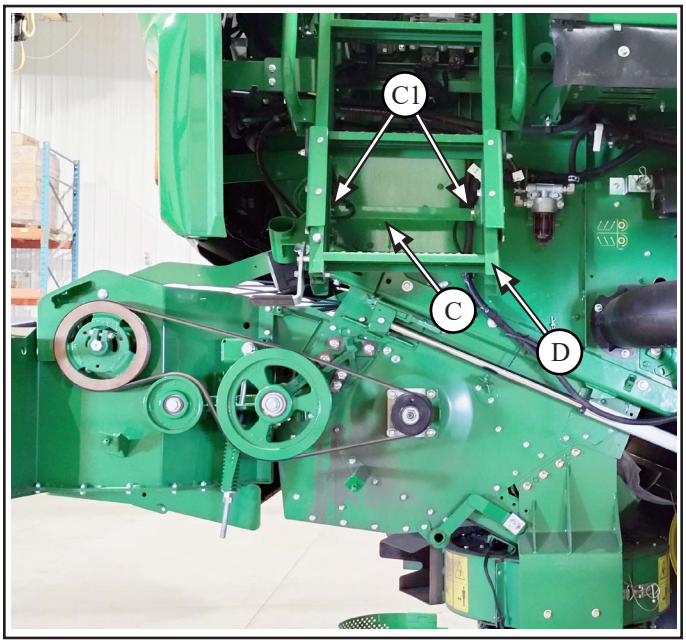
3.2.1 ECU Installation - S7

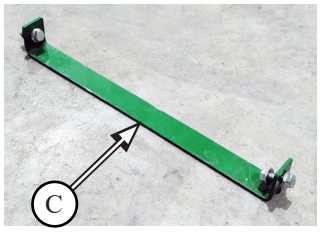
Parts List:

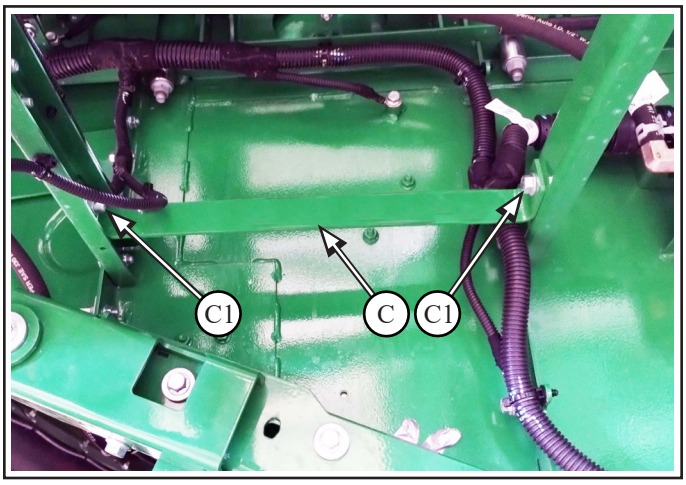
SC1401G	Bracket ECU Mount (**A**)	Qty 1
RP1021	ECU Tailboard/SCU (**B**)	Qty 1



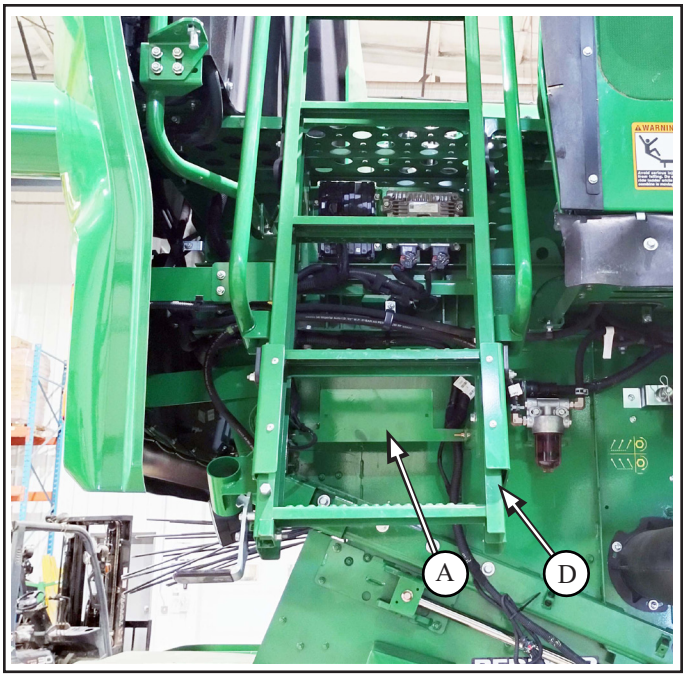
3.2.1.1 Remove brace strap (**C**) behind ladder
- not to be reused
- mount hardware to be reused (**C1**)

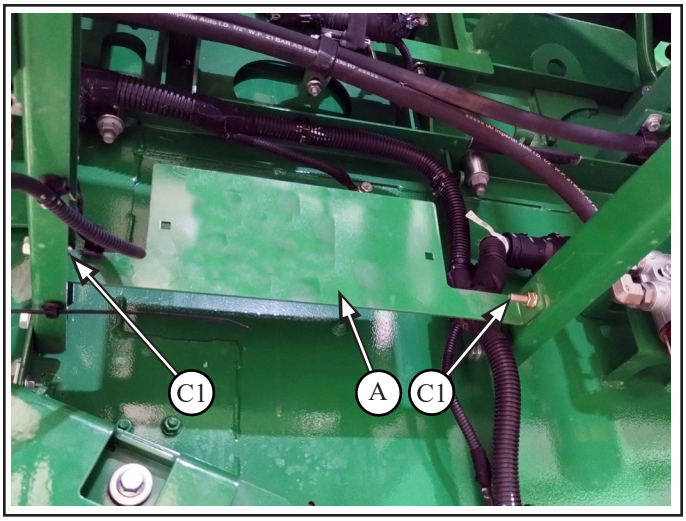




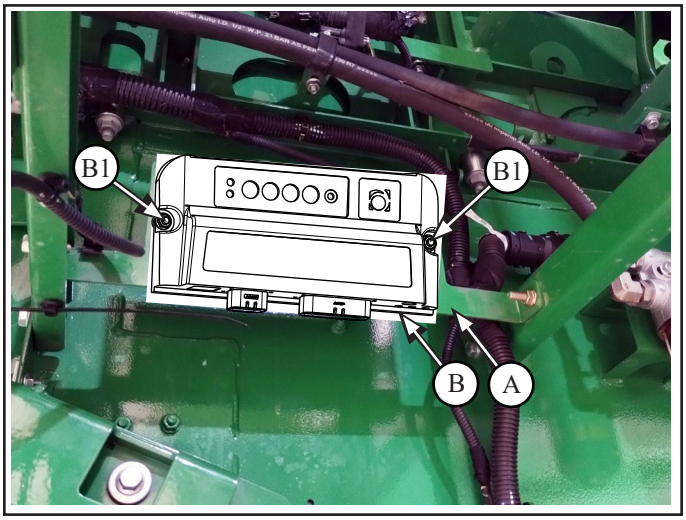


3.2.1.2 Install new ecu mount plate (**A**) behind ladder (**D**) where strap (**C**) was previously removed, with:
- reuse mount hardware (**C1**) x2





3.2.1.3 Install new ecu (**B**) to ecu mount plabe (**A**), with:
- M6 x 16 round head bolt and flange nut (**B1**) x2
- head of bolt on inside of bracket

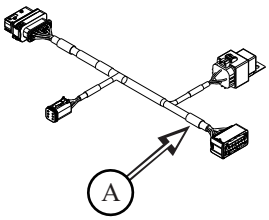


3.2.2 Harness Installation - S7

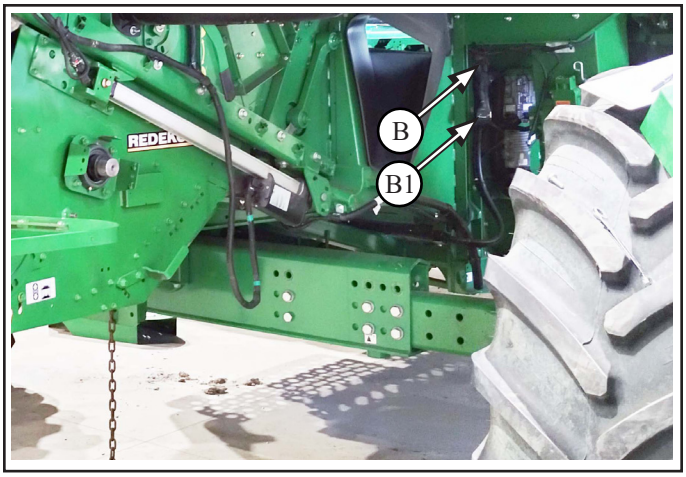
3.2.2.1 ISO Bus Adaptor Installation

Parts List:
RP1731 Adaptor ISO Bus JD S7 (**A**) Qty 1

If this is being installed on a Model Year 2024 Combine, contact Redekop to obtain a RP1732 adaptor from Redekop. This is to be used instead of RP1731

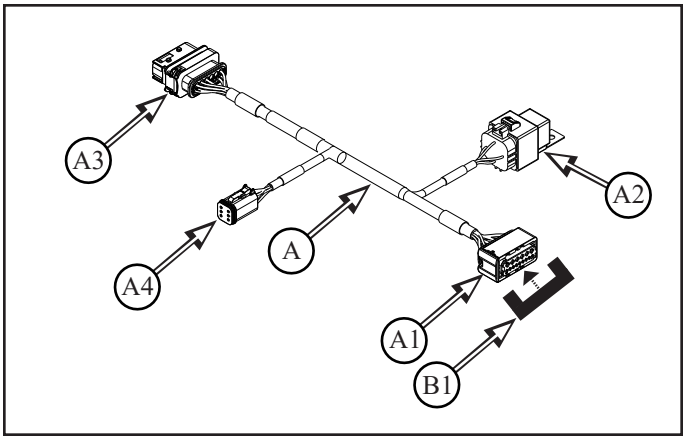


3.2.2.1.1 Remove cap (**B1**) from OEM harness (**B**) on right side of combine
- to be reinstalled on adaptor

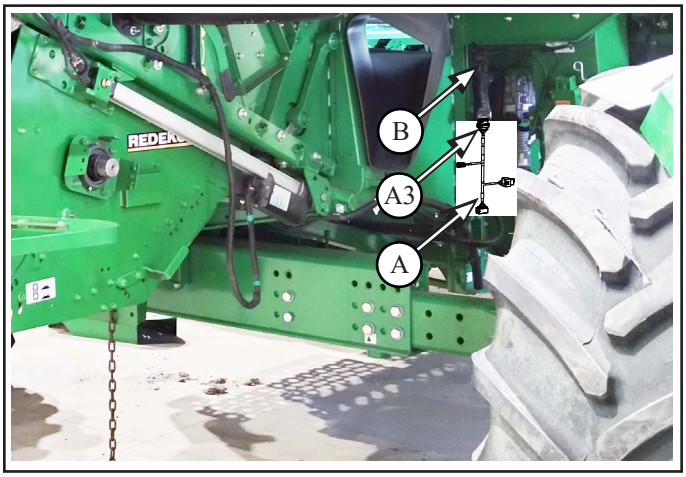


3.2.2.1.2 Install OEM cap (**B1**) into connector (**A1**) on adpator (**A**)

3.2.2.1.3 Zip tie relay (**A2**) to adaptor (**A**) wiring
- prevents from hanging loosely and being damaged

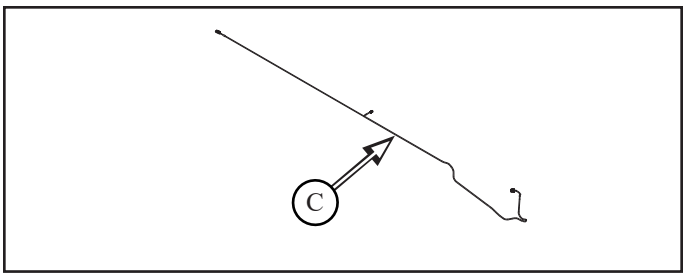


3.2.2.1.4 Install connector (**A3**) on adpator (**A**) into OEM harness (**B**) where cap (**B1**) was removed from



3.2.2.2 ECU Power & ISO Bus Harness Installation

Parts List:
RP1373 Harness ECU Power & ISO Bus (**C**) Qty 1



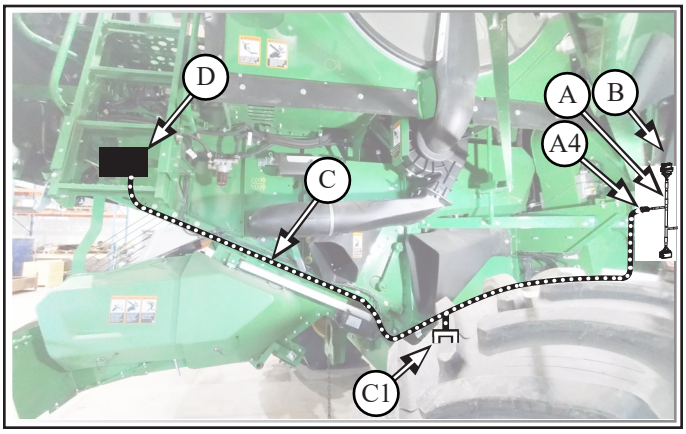
3.2.2.2.1 Install ecu power and ISO bus harness (**C**) into ecu (**D**)

3.2.2.2.2 Run harness (**C**) down and along rail forwards to adaptor (**A**) plugged into OEM harness (**B**)

3.2.2.2.3 Connect harness (**C**) into connector (**A4**) on adaptor (**A**)

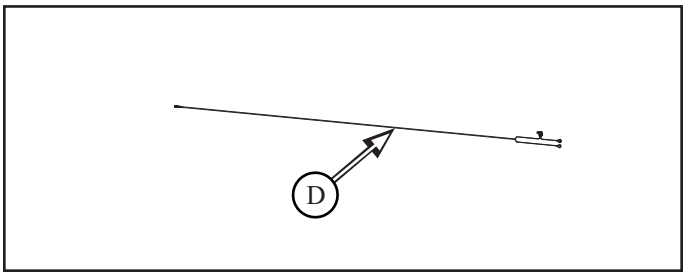
3.2.2.2.4 Zip tie harness (**C**) to existing harnesses and frame

3.2.2.2.5 Ensure harness is clear of moving components and is not pinched when chopper is raised or lowered



3.2.2.3 Power Harness Installation

Parts List:
RP1375 Harness Power (**D**) Qty 1

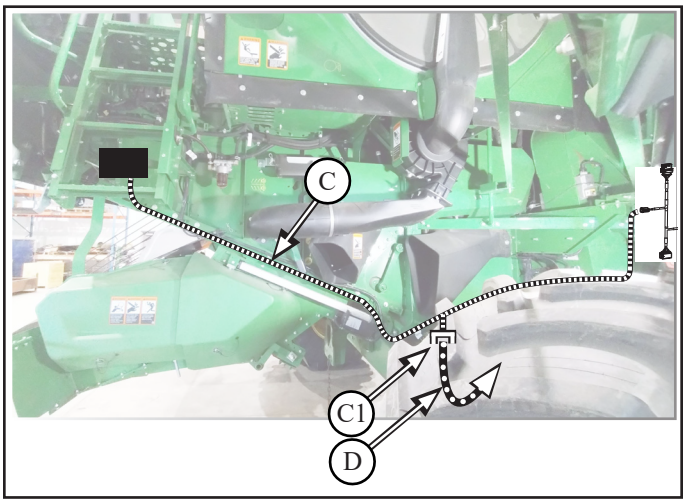


3.2.2.3.1 Connect power harness (**D**) to ecu power and CANbus harness connector (**C1**)

3.2.2.3.2 Route harness (**D**) underneath the combine up to the battery box on the left-hand side

3.2.2.3.2.1 Use cable tie straps to secure harness to existing harness or hydraulic lines running under the combine

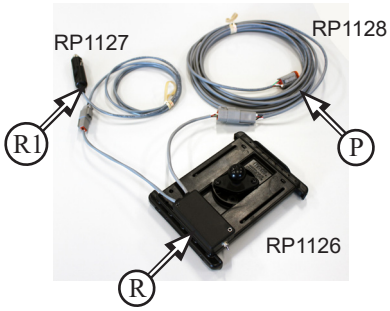
3.2.2.3.3 Ensure harness has room to move with chopper and is clear of moving components and is not pinched
- excess extension harness can be looped and tied together



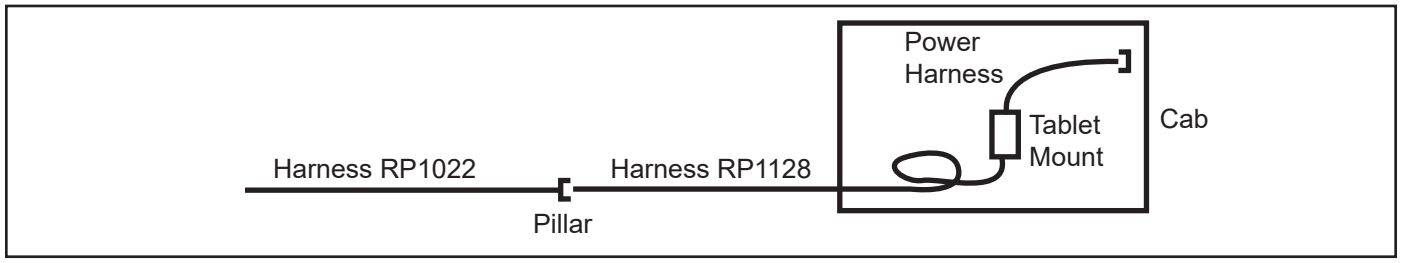
3.3 Tablet Control Installation

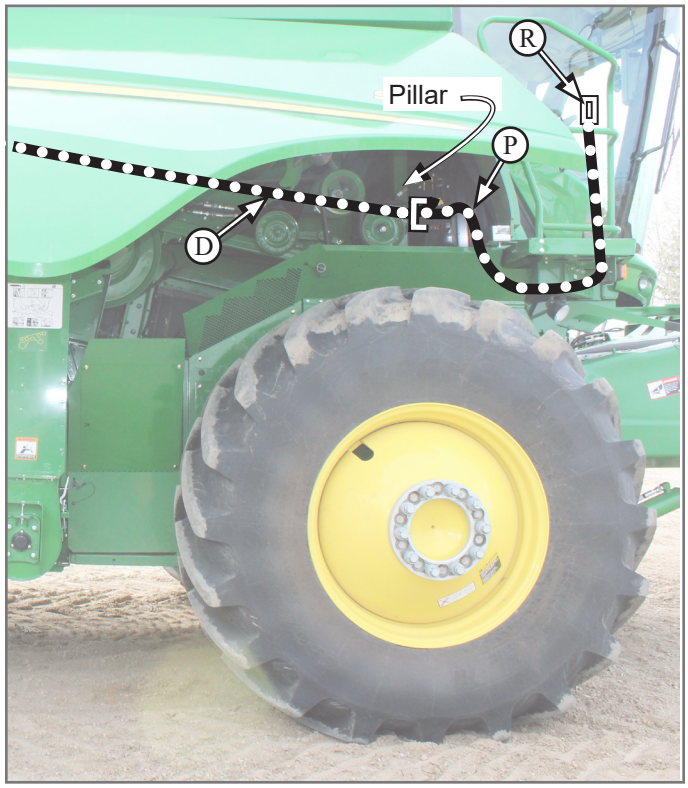
Parts List:

RP1128 Harness CAN Extention 20ft (**P**)	Qty 1
RP1126A Tablet Mount Assy (**R**)	Qty 1



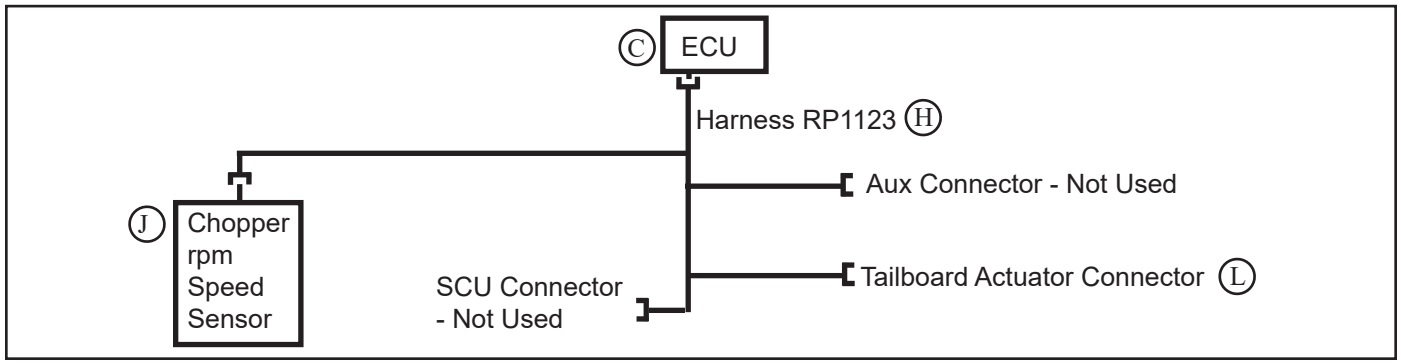
3.3.1 Install Tablet harness
- behind cab, connect Tablet harness (**P**) into main harness (**D**)
- run Tablet harness (**P**) into cab
- connect Tablet harness (**P**) to tablet (**R**)
- connect tablet power harness (**R1**) to 12V power





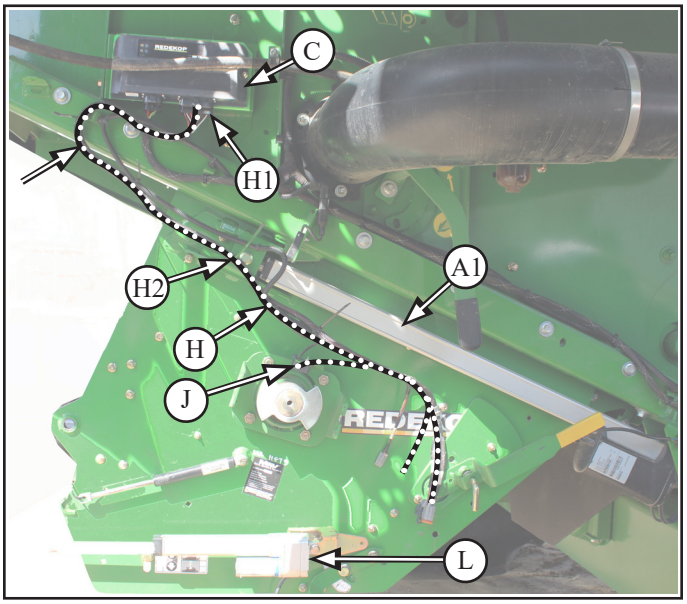
3.4 ECU/Chopper Harness Installation (**F**)

- connect harness (**H**) to ECU (**C**)
- route harness as shown along right side of chopper from ECU (**B**)
- route and secure harness in such a way it has slack and is not damaged by moving chopper
- connect branch to chopper speed sensor (**J**)
- branch for auxialliary is not used
- connect branch for tailboard actuators (**L**)
- use cable tie straps to secure harness to existing harness or hydraulic lines running along side of chopper
- ensure harnesses are not in a pinch point location



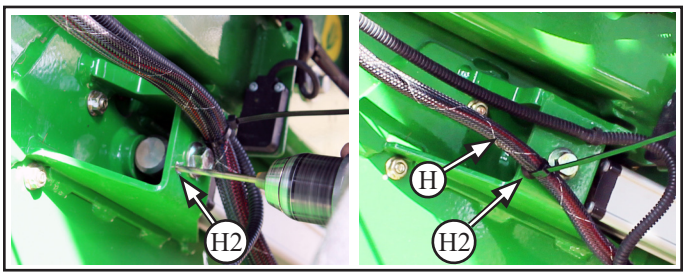
3.4.1 Connect the connector (**H1**) into ECU (**C**) receptacle

IMPORTANT:
Route and secure harness (**H**) in such a way that it has slack and is not damaged when actuator (**A1**) is fully extended
- follow/attach to OEM wiring harnesses



3.4.2 Drill 6mm hole at (**H2**) on actuator mount bracket

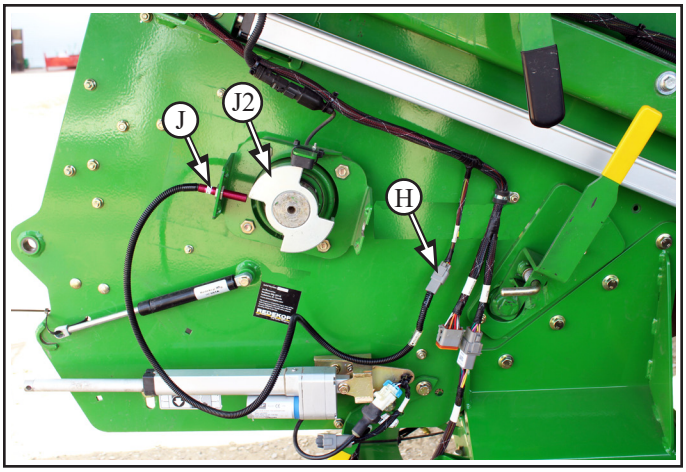
3.4.3 Tie harness (**H**) down through hole (**H2**)



3.5 Speed Sensor (J) Installation

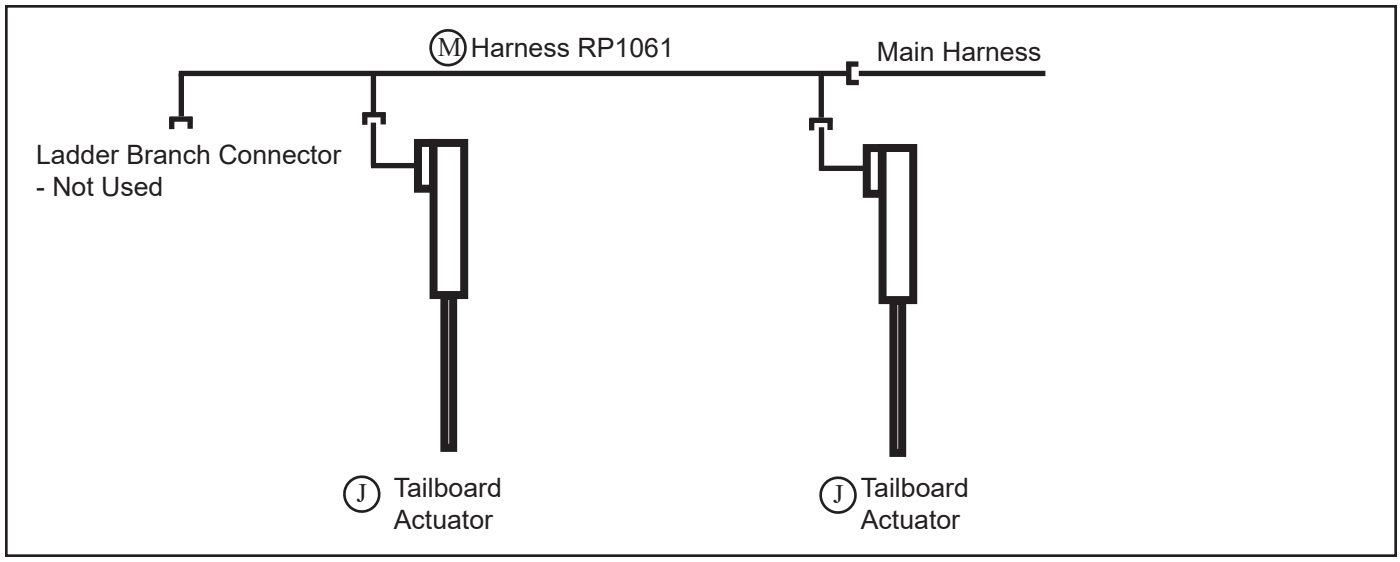
3.5.1 Adjust speed sensor (**J**) to be 1-3mm from target (**J2**)

3.5.2 Connect the speed sensor connector (**J1**) into ECU harness connector (**H**)

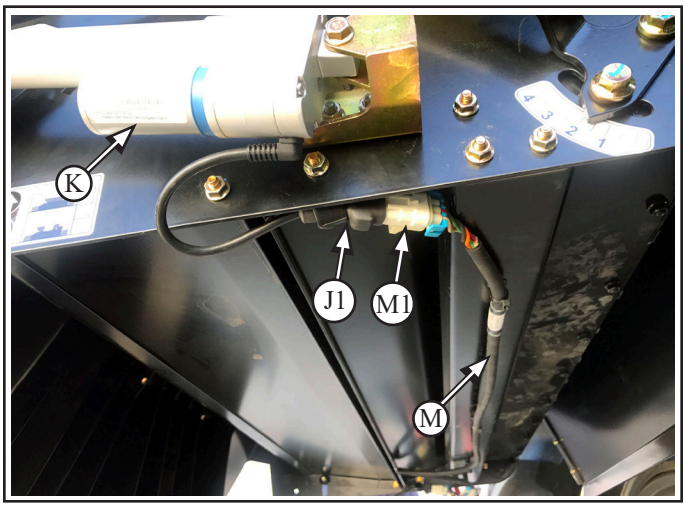


3.6 Tailboard Actuator Harness (M) Installation

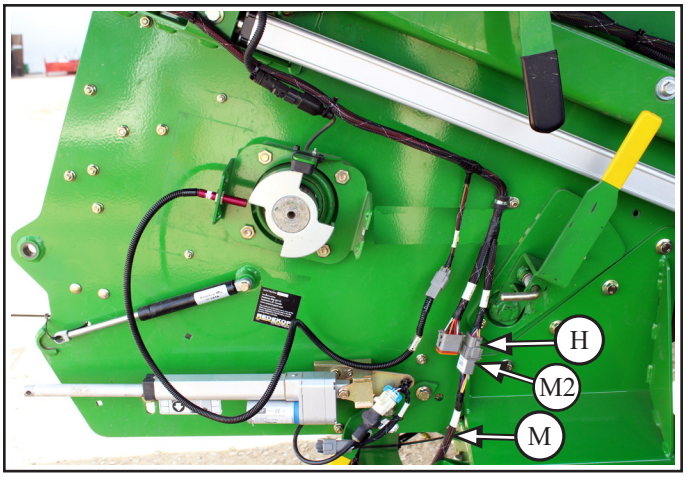
- connect harness (**M**) to tailboard actuators (**J**)
- route harness underneath chopper to left tailboard actuator (**J**)
- connect harness (**M**) to main harness
- use cable tie straps to secure harness to chopper or existing harness or brackets running along/under chopper



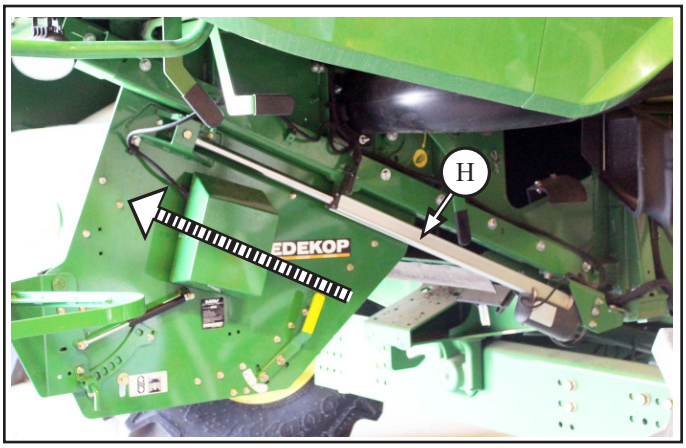
3.6.1 Connect the connector (**M1**) of actuator harness (**M**) to both actuators (**J**) (**J1**) and secure underneath chopper



3.6.2 Connect the connector (**E2**) of actuator harness (**E**) into ECU harness connector (**H**)



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



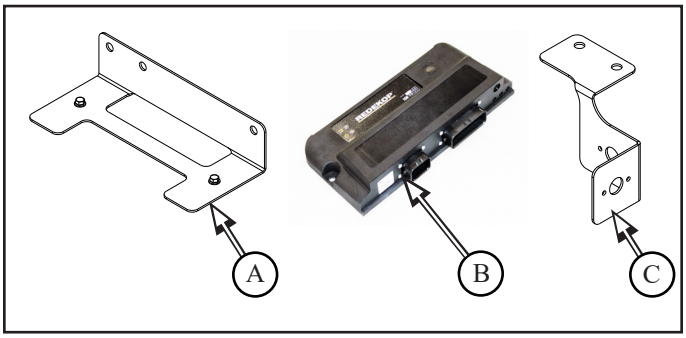
4 Electronics Installation - New Holland CR

If there is an SCU installed, some components may already be installed

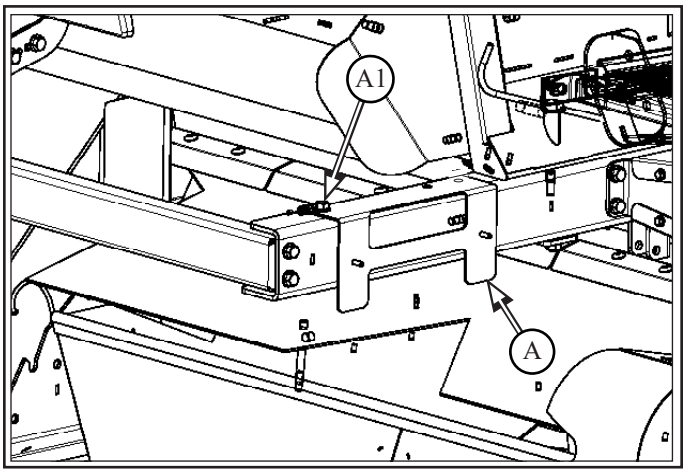
4.1 ECU Installation

Parts List:

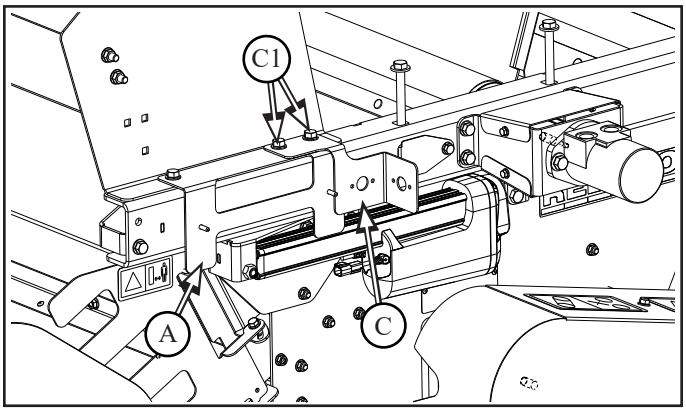
CS1167B	ECU Mount Bracket (**A**)	Qty1
RP1021	ECU (**B**)	Qty 1
CS1168B	Sensor Mount Plate CR (**C**)	Qty1



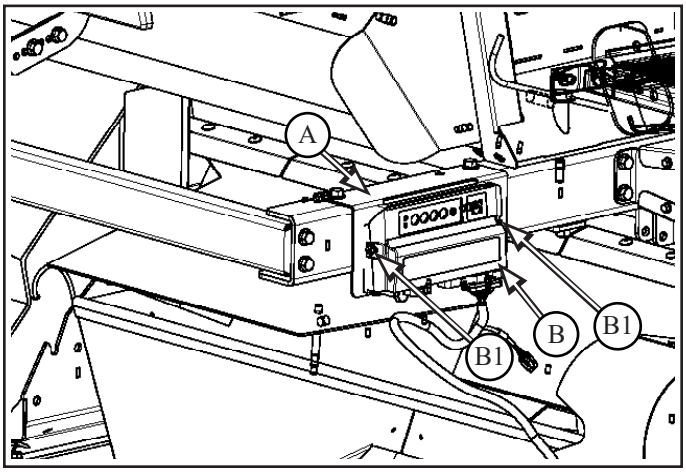
4.1.1 Install ECU mount bracket (**A**) onto chopper slide frame, with:
- M10 x 30 flange head bolt and flange nut (**A1**)



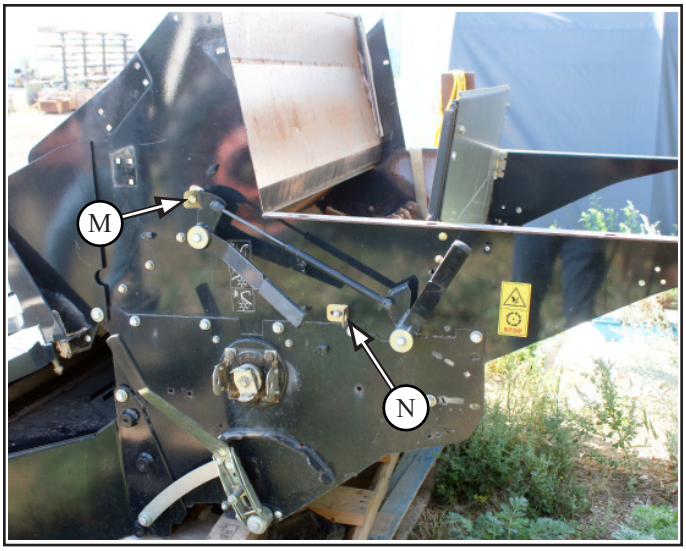
4.1.2 Install sensor mount plate (**B**) onto chopper slide frame, with:
- M10 x 30 flange head bolt and flange nut (**C1**) x2



4.1.3 Install ECU (**B**) onto mount plate (**A**), with:
- M6 flange nut (**B1**) x2



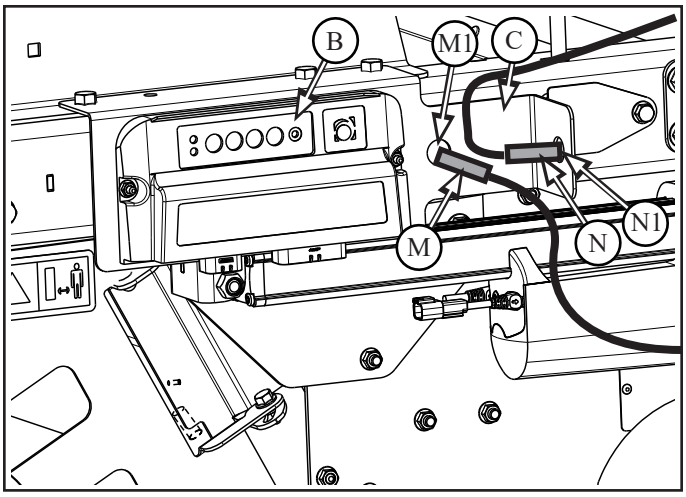
4.1.3 Remove switch plate and chopper door sensors (**M** & **N**) from OEM chopper



4.1.3.1 Reinstall OEM sensors (**M** & **N**) from the OEM chopper to sensor mount plate (**C**)

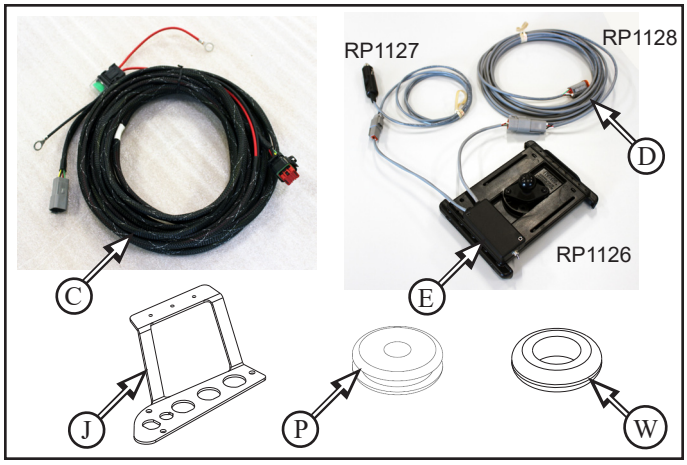
4.1.3.2 Install swath plate sensor (**M**) into hole (**M1**) on sensor mount plate (**C**), beside ECU (**B**)
- pointing to steel

4.1.3.3 Install chopper door sensor (**N**) into hole (**N1**) of sensor mount plate (**C**)
- pointing to “empty space”



4.2 Harness Installation

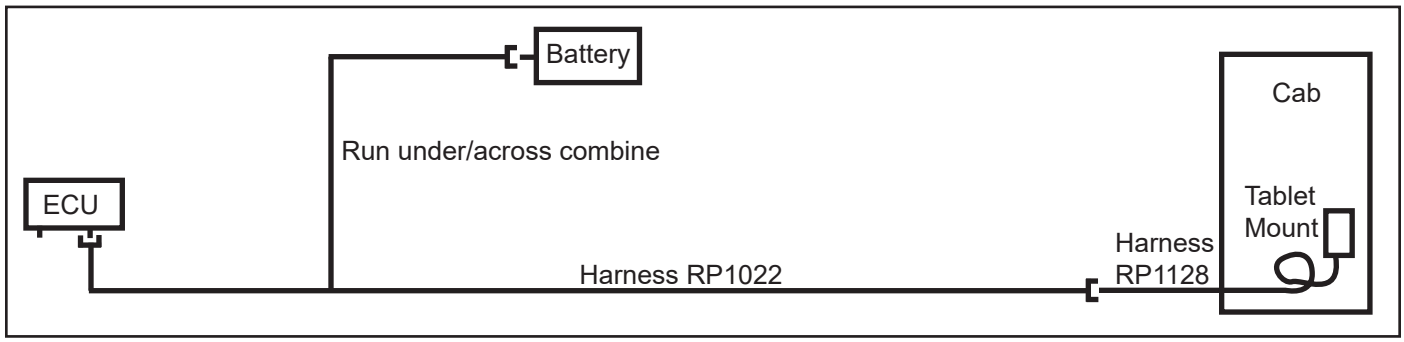
4.2.1 Install ECU Power/Cab Harness
- may already be installed on combine with MAV chopper with SCU

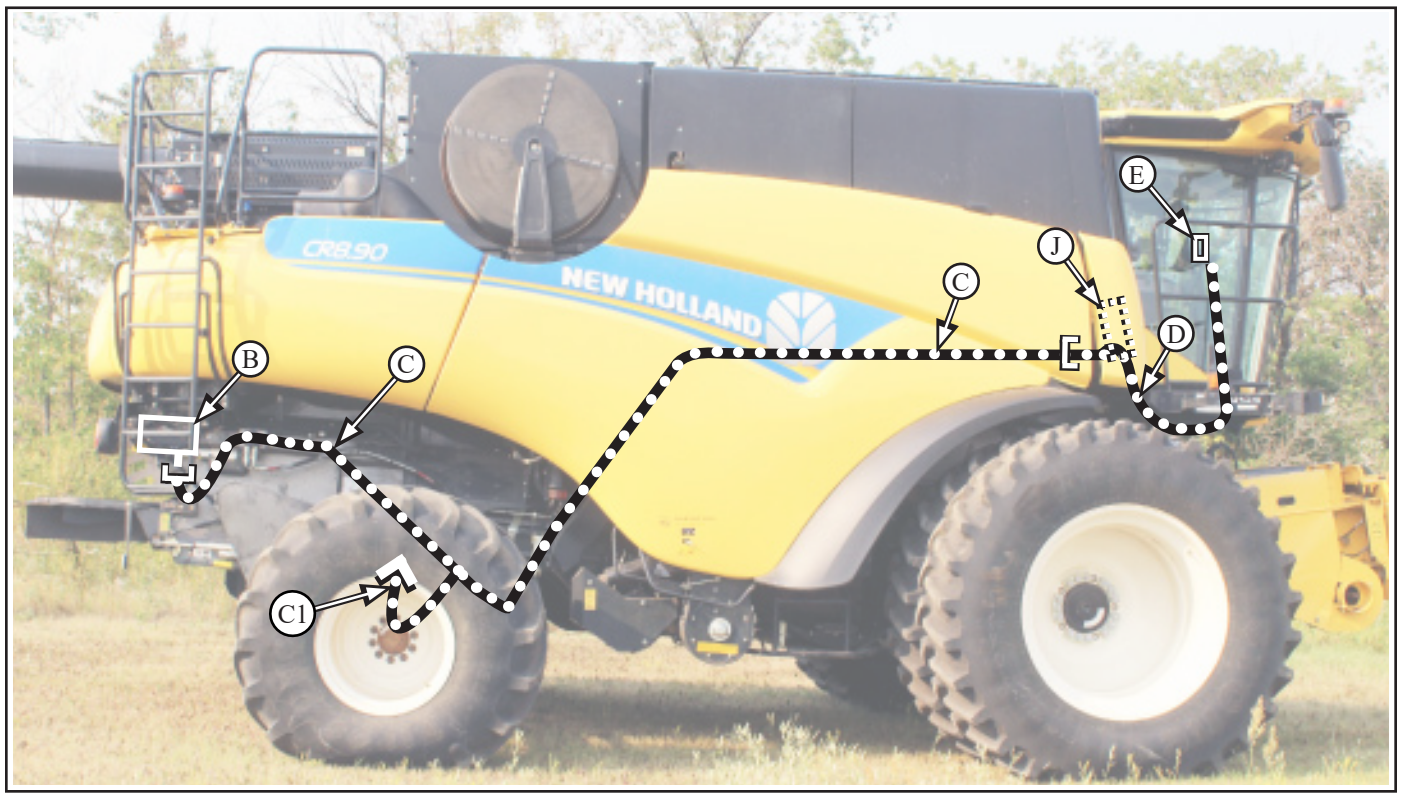


Parts List:

RP1022	Harness ECU Power/Cab (**C**)	Qty 1
RP1128	Harness CAN Extention 20ft (D)	Qty 1
RP1126A	Tablet Mount Assy (**E**)	Qty 1
CH762B	Bulkhead Plate (**J**)	Qty 1
RP1322	Grommet (**P**)	Qty 1
RP1343	Grommet .875 id x 1.25 hole (**W**)	Qty 1

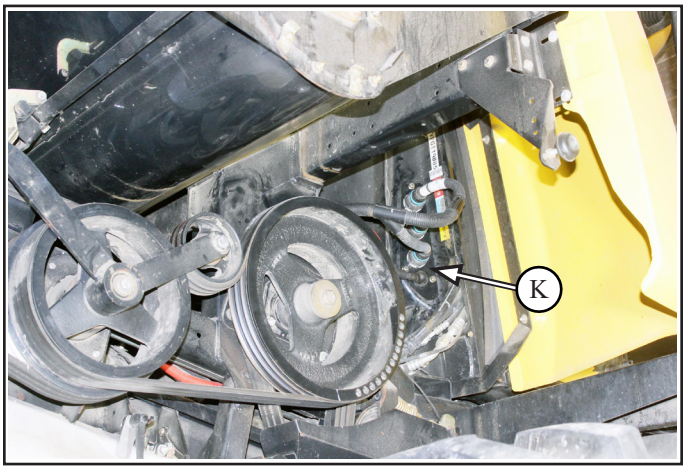
4.2.1.1 Install ECU Power/Cab Harness (**C**)
- connect harness (**C**) to ECU (**B**)
- route harness as shown along right side of combine from ECU (**B**) to up behind cab
- at Tee in harness, route “power lines” (**C1**) underneath the combine up to the battery on the left-hand side
- from behind cab, connect harness (**C**) to tablet harness (**D**) and route into cab, connect to tablet (**E**)
- fasten tablet (**E**) to railing inside cab
- use cable tie straps to secure harness to existing harness or hydraulic lines running along side of combine

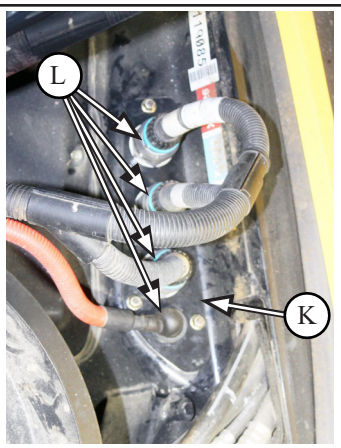




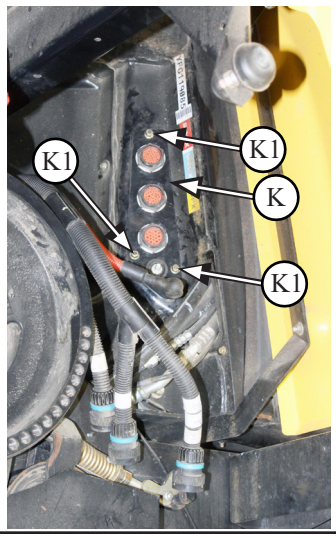
4.2.2 Ensure the battery disconnect switch is in the OFF position

4.2.3 Disconnect all wire harness connectors (**L**) from existing connectors on bulkhead plate (**K**) behind cab

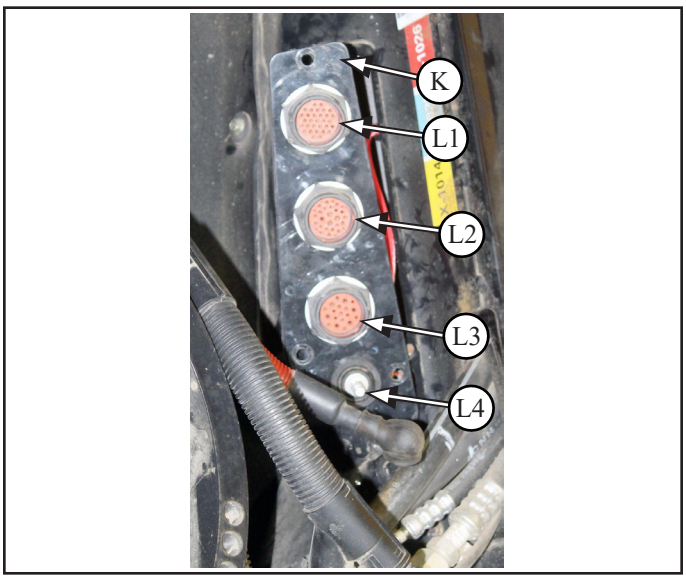




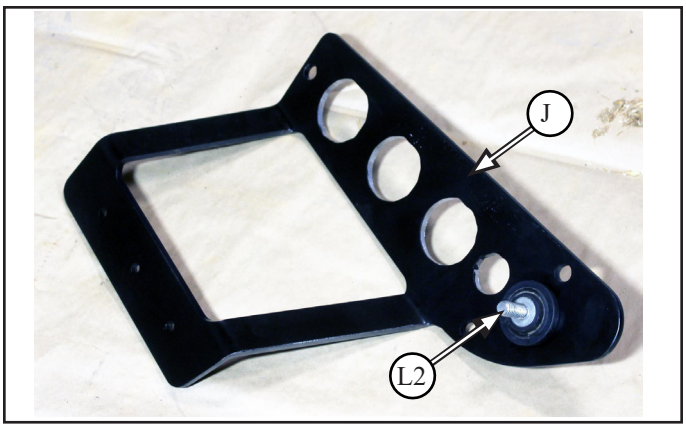
4.2.4 Remove nuts (**K1**) from existing bulkhead plate (**K**) behind cab



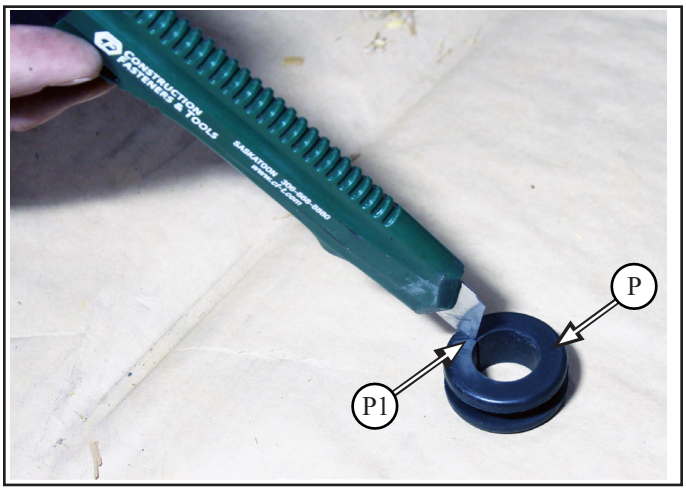
4.2.5 Remove connectors (**L1, L2, L3**) and stud (**L4**) from existing bulkhead plate (**K**)
- to be reinstalled in same order on new plate



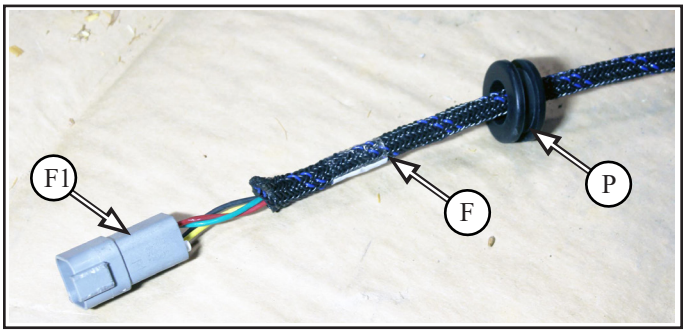
4.2.6 Install stud (**L2**) onto bottom hole in new bulkhead plate (**J**)



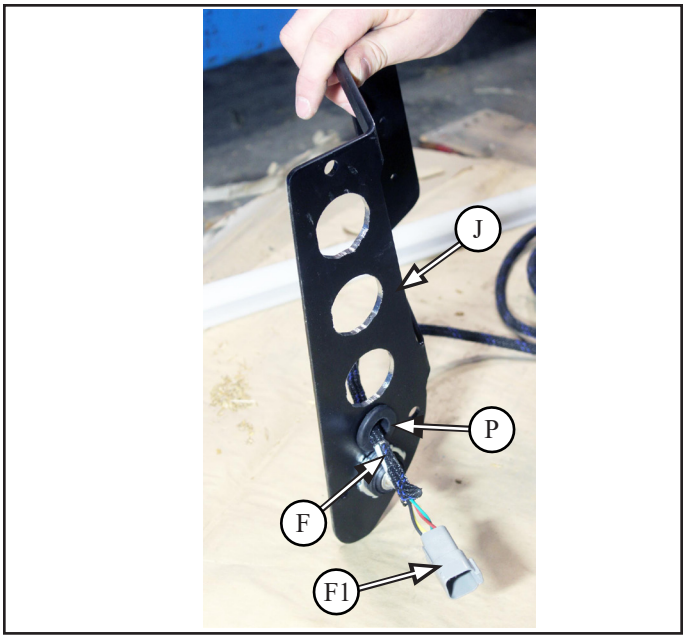
4.2.7 Slice (**P1**) thru 1 side of grommet (**P**)



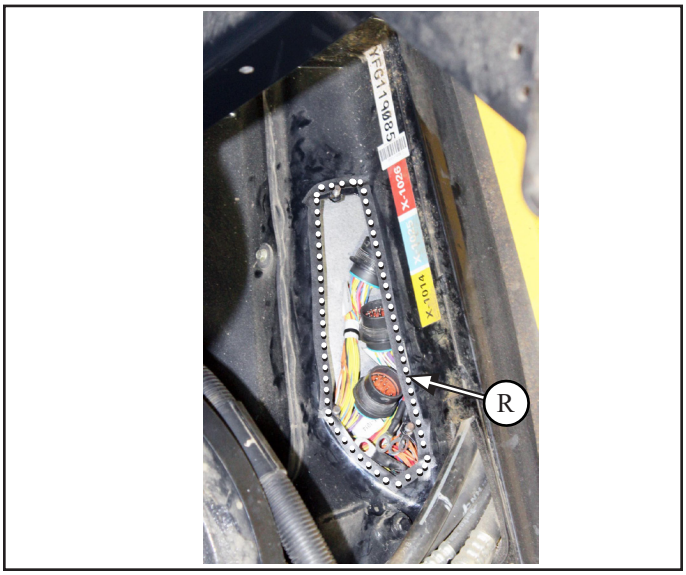
4.2.8 Slip grommet (**P**) onto new wire harness (**F**) from tablet inside cab
- ensure grommet (**P**) is closest to the female connector end (**F1**) of harness (**F**)



4.2.9 Install grommet (**P**) with harness (**F**) onto new bulkhead plate (**J**)
- ensure female connector end (**F1**) is fed thru the hole



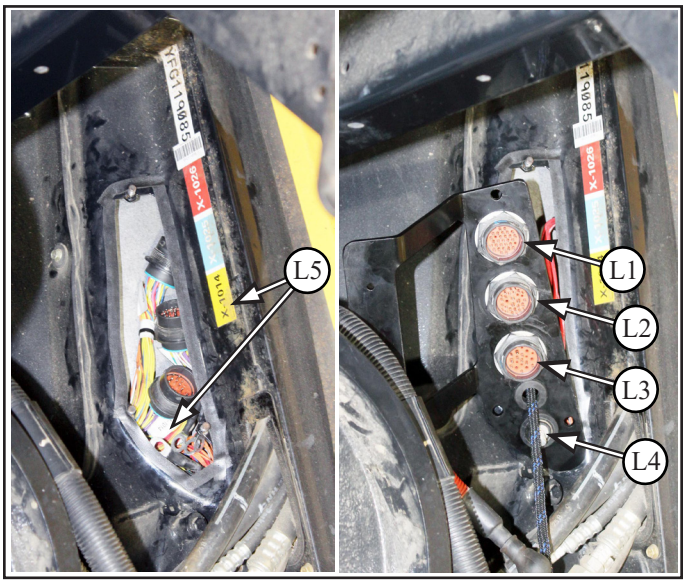
4.2.10 Apply sealant tape (**R**) around bulkhead hole on combine



4.2.11 Install connectors (**L1, L2, L3**) and stud (**L4**) to back of new bulkhead plate (**J**) in same order as removed from old plate

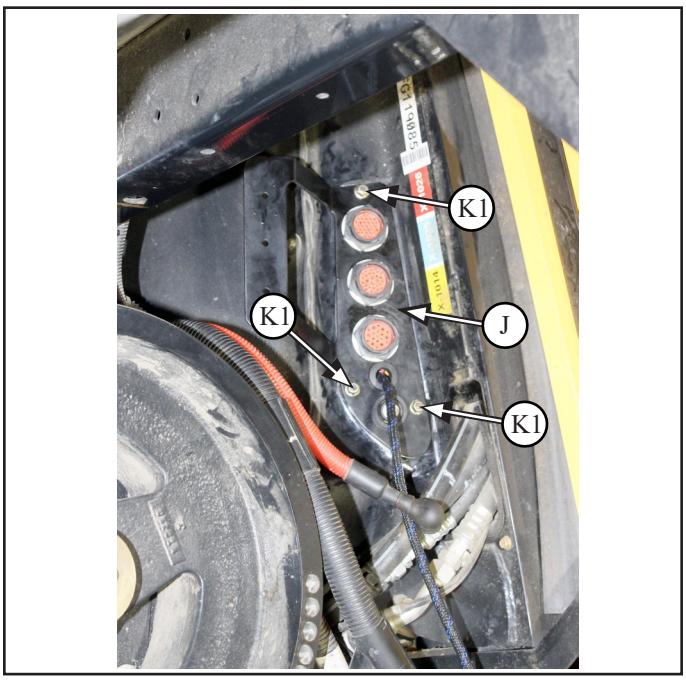
- ensure number on connector labels (**L5**) matches number on the labels (**L5**) on combine wall and connectors are installed in same order

4.2.11.1 If old bulkhead bracket has label with harness numbers, mark number onto new bulkhead bracket



4.2.12 Route harness (**F**) into cab

4.2.13 Install bulkhead plate (**J**) with connectors installed onto studs, secure in place with:
- reuse nuts (**K1**) x3

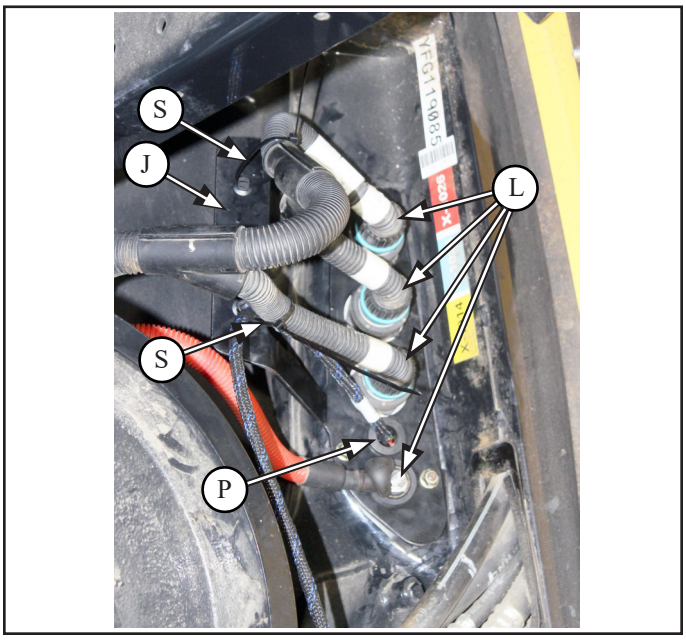


4.2.14 Reassemble harness connectors and power cable (**L**) to connectors (**L1-L4**) on bulkhead plate (**J**)

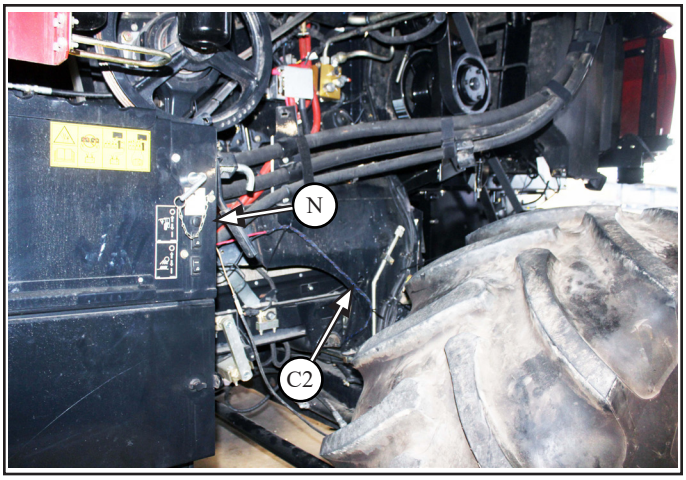
- ensure the connectors are in the same order as previous and number matches number on combine

4.2.14.1 Secure harnesses in place with nylon ties (**S**) to bulkhead bracket (**J**)

4.2.14.2 Apply sealant to grommet (**P**)



4.2.15 Run “power lines” (**C2**) to battery box (**N**) - secure harness



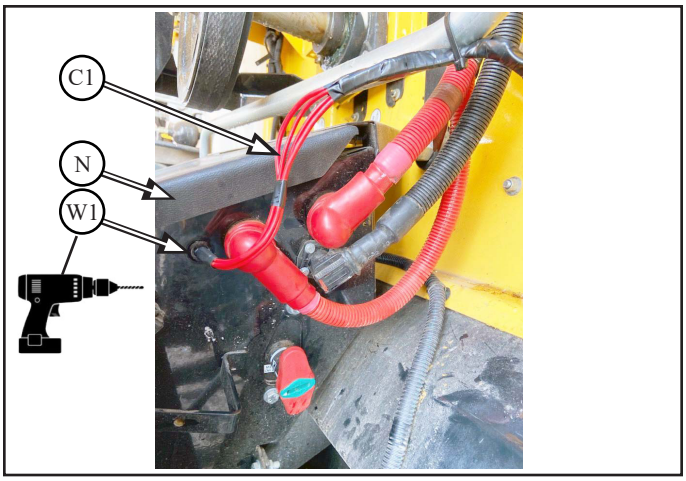
4.2.16 Drill 32mm (1.25in) hole (**W1**) in battery box (**N**) to allow power lines with fuse access

4.2.16.1 Slice grommet (**W**) thru 1 side

4.2.16.2 Thread power lines (**C1**) with fuse thru hole (**W1**)

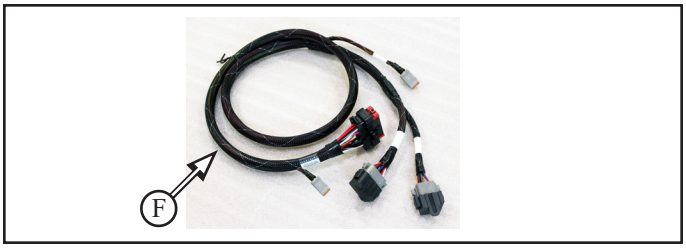
4.2.16.3 Install grommet (**W**) around power lines (**C1**) into hole (**W1**)

4.2.16.4 Connect power lines (**C1**) to battery terminals

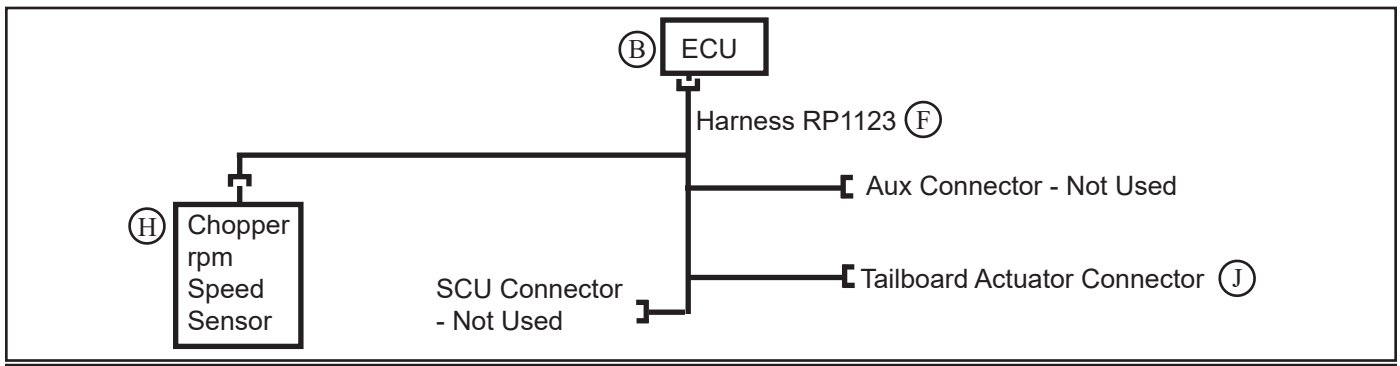


4.3 Install ECU / Chopper Harness

Parts List:
RP1123 Harness ECU / Chopper **(F)** Qty 1

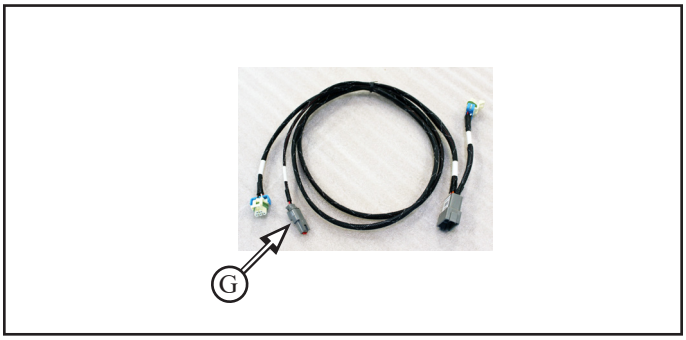


4.3.1 Install ECU/Chopper Harness (**F**)
- connect harness (**F**) to ECU (**B**)
- route harness as shown along right side of chopper from ECU (**B**)
- route and secure harness in such a way it has slack and is not damaged by moving chopper
- connect branch to chopper speed sensor (**H**)
- branch for auxialliary is not used
- connect branch for tailboard actuators (**J**)
- use cable tie straps to secure harness to existing harness or hydraulic lines running along side of chopper
- ensure harnesses are not in a pinch point location

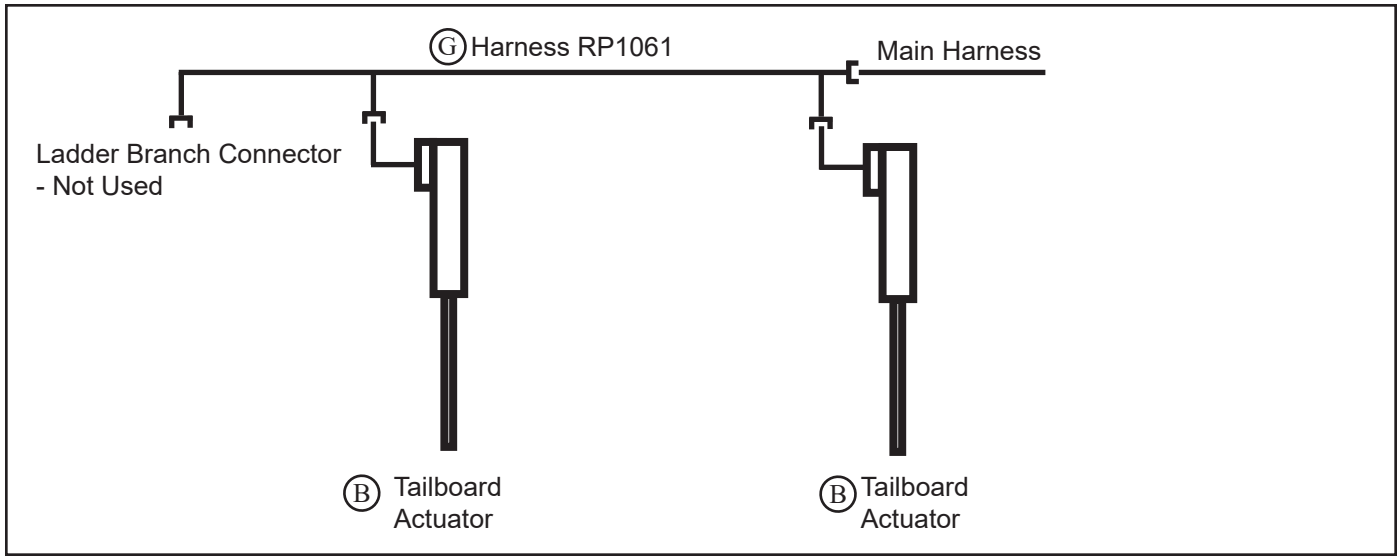


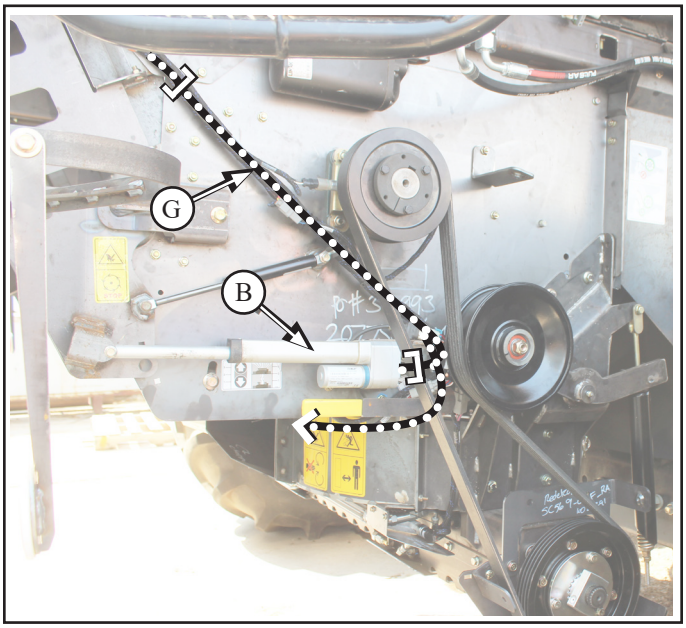
4.4 Tailboard Actuator Harness Installation
- required for actuated tailboards

Parts List:
RP1061 Harness Tailboard Actuator (**G**) Qty 1



4.4.1 Install Tailboard Actuator Harness (**G**)
- connect harness (**G**) to tailboard actuators (**B**)
- route harness underneath chopper to left tailboard actuator (**B**)
- connect harness (**G**) to main harness
- use cable tie straps to secure harness to chopper or existing harness or brackets running along/under chopper



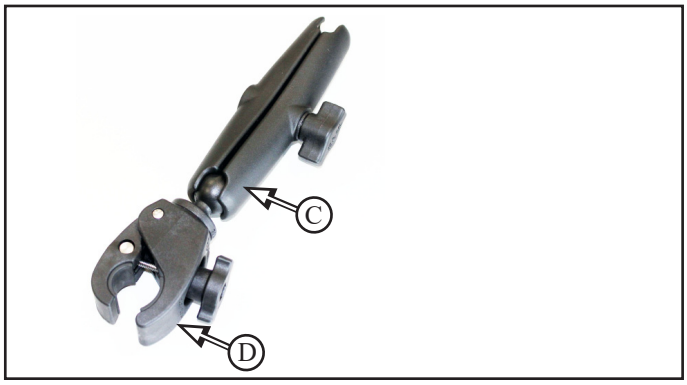


5 Tablet Installation

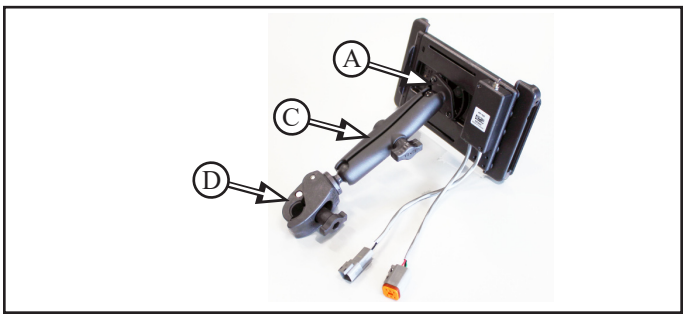
Parts List:

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

5.1 Assemble the double socket clamp (**C**) to clamp w/ ball (**D**)



5.2 Assemble the double socket assembly (**C**) to the ball on the tablet mount (**A**)



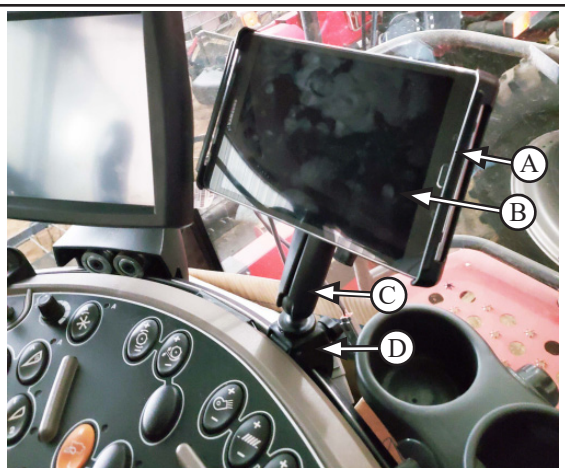
Prior to installation in combine - check for a software update for Redekop Controller application. See operator's manual section

5.3 Mount tablet (**B**), cradle assembly (**A**) onto inside of combine cab at desired location using and locking the clamp (**D**) into place. Adjust angle of tablet for best viewing and lock into place.

5.3.1 Connect USB cable from mount (**A**) to tablet (**B**)

5.3.2 Connect harness (**A1**) from tablet mount assembly to ECU Power/Cab harness at pillar, see harness connection in section 4.2.9

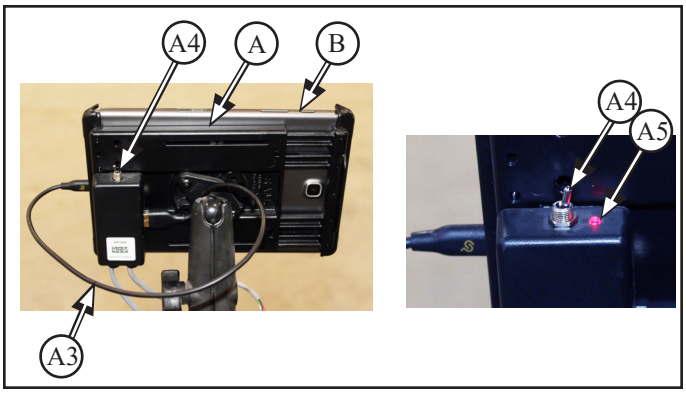
5.3.3 Connect the 12 volt connector (**A2**) from tablet mount assembly (**A**) into 12 volt outlet in combine cab



6 Software

6.1 Turn On

6.1.1 Toggle switch (**A4**) to on position
- red light (**A5**) will come on
- if light does not come on, turn key on combine on or make sure 12V connector is plugged in

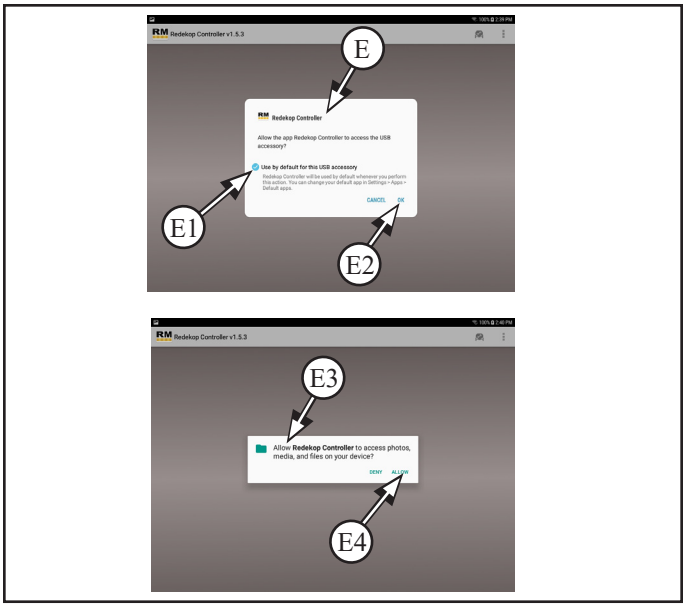


6.2 First Time Initialization

6.2.1 Turn tablet on
- unlock by swiping screen
- Redekop Controller App screen (**E**) should automatically open

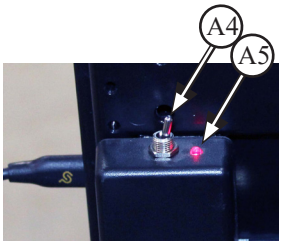
6.2.2 Select Use by default for this USB accessory (**E1**)
- select OK (**E2**)

6.2.3 If asks for file permissions “Allow Redekop Controller to access photos..” screen (**E3**) appears, select Allow (**E4**)

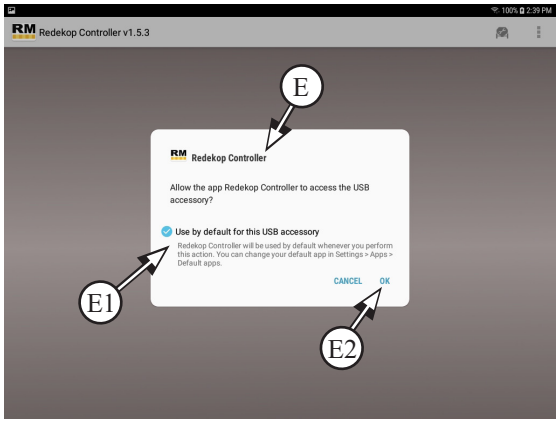


6.3 Activate Tailboards

6.3.1 Toggle switch (**A4**) to on position
- red light (**A5**) will come on
- if light does not come on, turn key on combine on or make sure 12V connector is plugged in

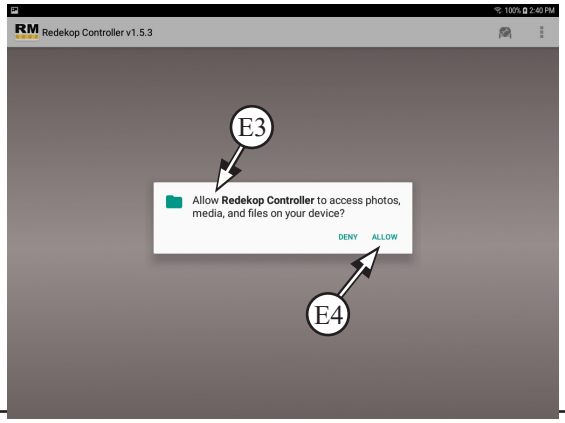


6.3.2 Turn tablet on
- unlock by swiping screen
- Redekop Controller App screen (**E**) should automatically open

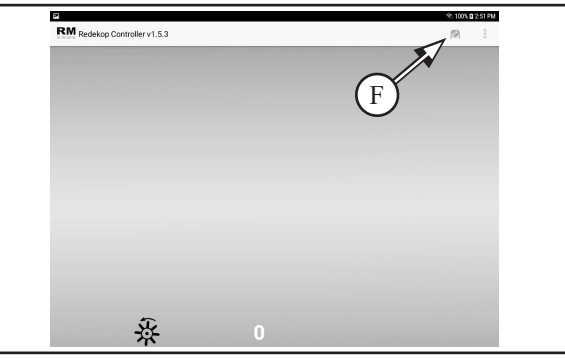


6.3.2.1 Select Use by default for this USB accessory (**E1**)
- select OK (**E2**)

6.3.2.2 If asks for file permissions “Allow Redekop Controller to access photos..” screen (**E3**) appears, select Allow (**E4**)



6.3.2.3 Select Settings Icon (**F**)



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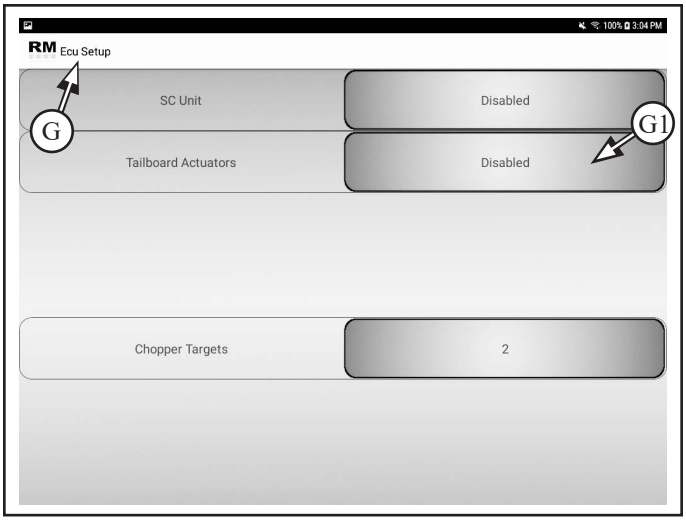
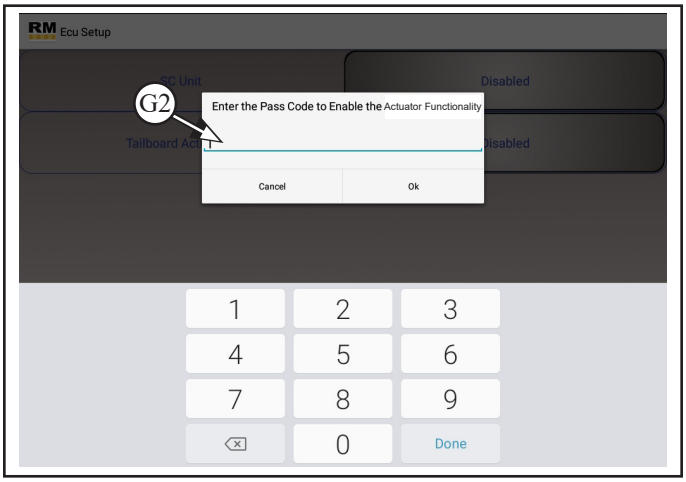
6.3.3 ECU Setup screen (**G**) displays

6.3.3.1 Select DISABLED (**G1**) to enable Actuators

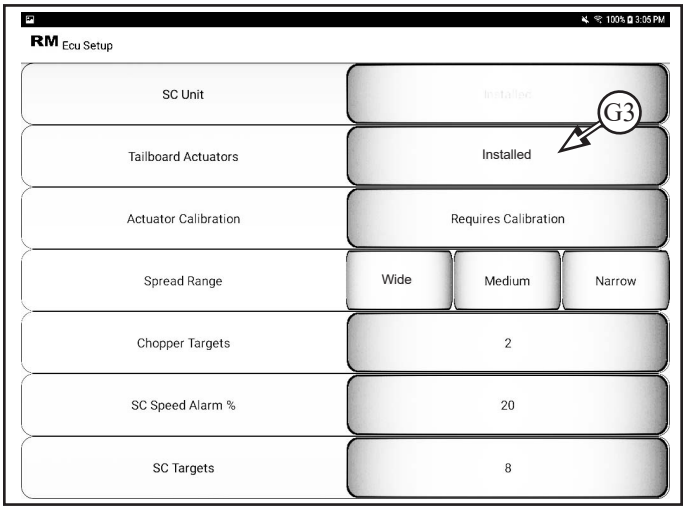


6.3.3.2 Enter the following code (**G2**):

Actuator Pass Code: 22114

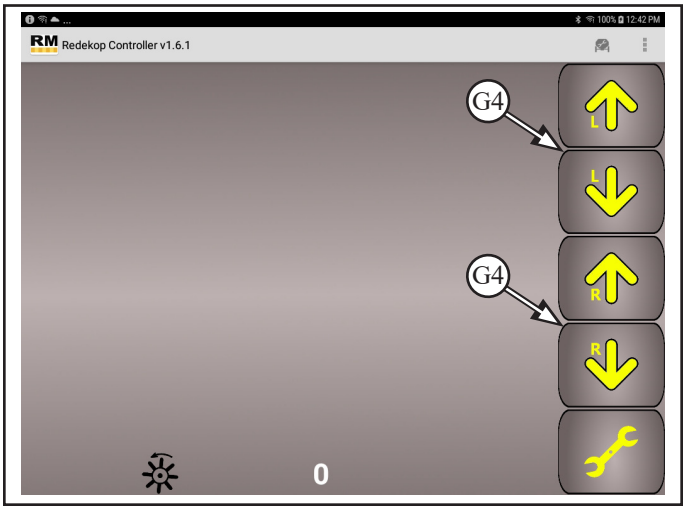


6.3.3.3 Actuators will now display INSTALLED (**G3**)

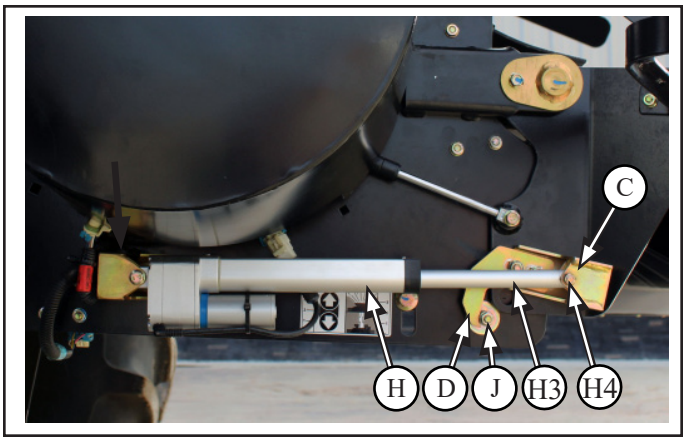


6.3.4 Press “back button” to go to main screen

6.3.4.1 Press “arrow” buttons (**G4**) up or down to jog the actuators (**H**) out enough to connect to the tailboard brackets (**C**)

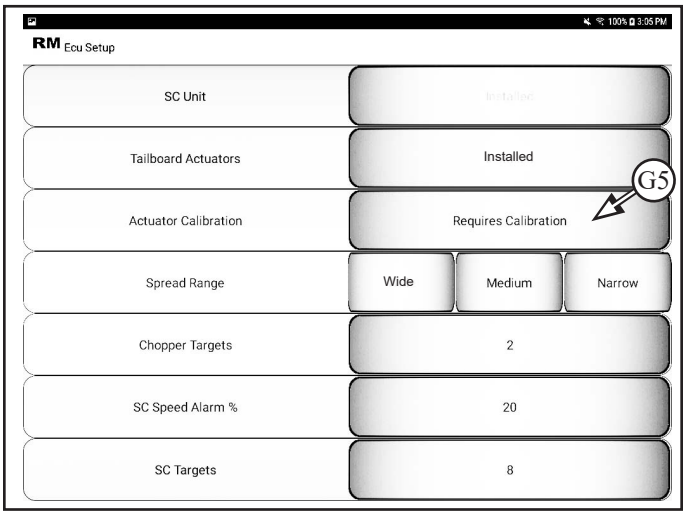


6.3.5 Install shaft (**H3**) of actuator into left tailboard bracket (**C**) with:
- M8 x 65 round head bolt and lock nut (**H4**)
- head of bolt to be on inside of tailboard
- both sides

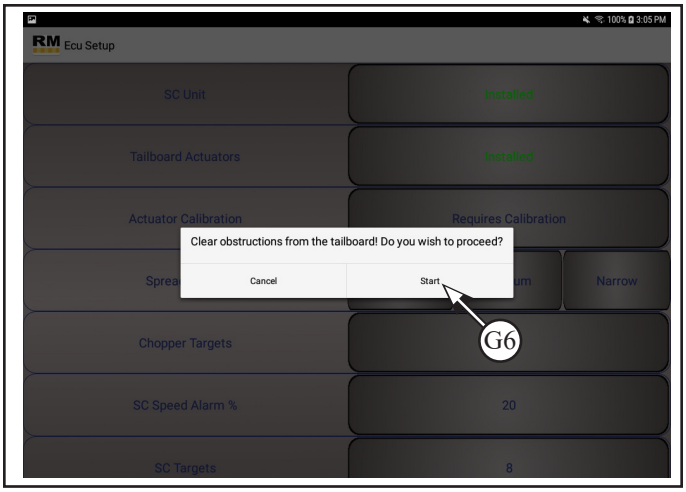


6.3.4 Ensure tailboards are free to move up and down for calibration

6.3.4.1 Select “Requires Calibration” (**G5**)



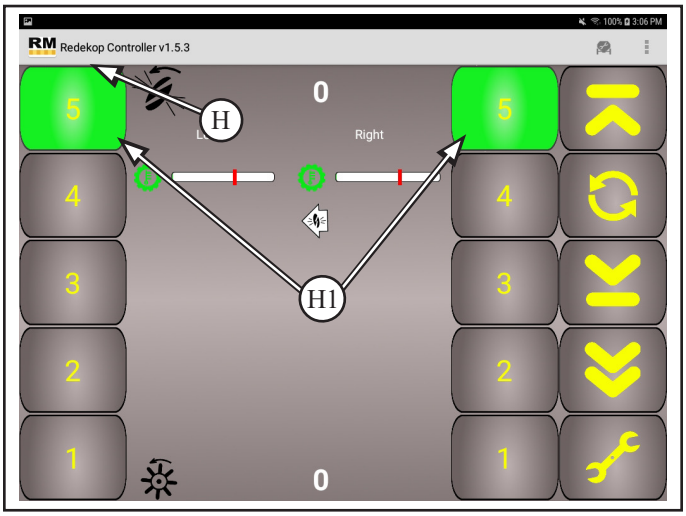
6.3.4.2 Select Start (**G6**) when tailboards are clear of obstructions and ready for actuator calibration



6.3.4.3 Adjust tailboard hook (**D**) until tailboards are even when up and to allow some stroke left in the gas shock (**S**) when the hook stops on the limiter pin (**J**) 124mm - 127mm (4 7/8” - 5”)

6.3.4.4 Tailboard Calibration warning screen (**G5**) displays

6.3.5 Main screen (**H**) after tailboard calibration displaying tailboards are in highest/widest spread position (**H1**)

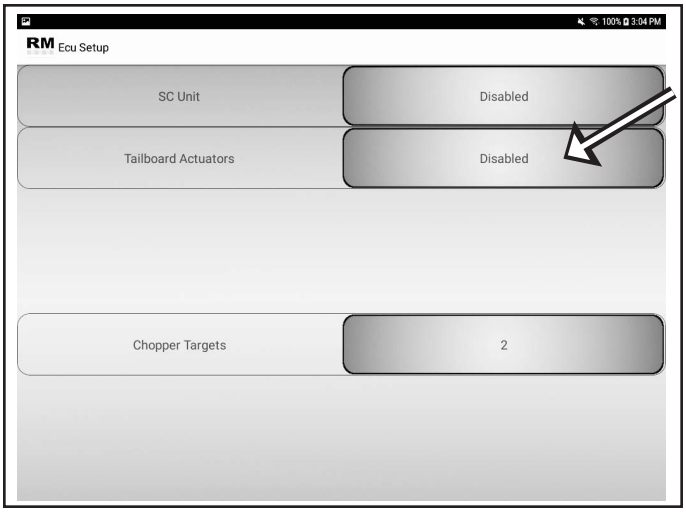


6.4 Software Codes

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

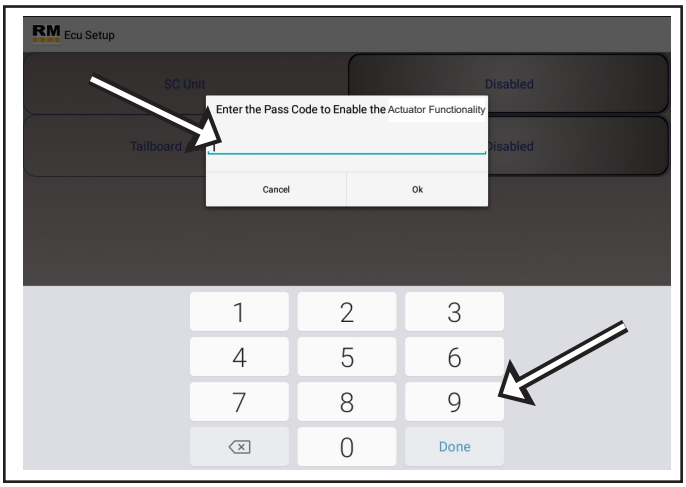


Screen defaults to code input screen

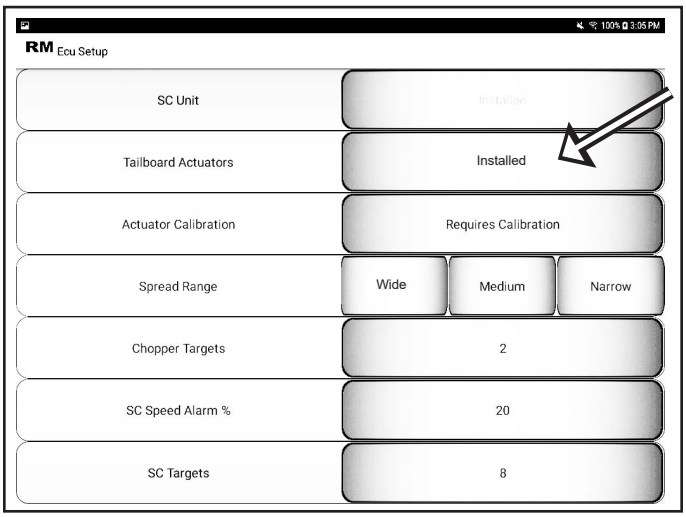
To enter new code, select numbers at bottom

SCU Code: 53235

Tailboard Actuator Code: 22114



Option now states “Installed”



See operator’s manual for operation of tablet

CAUTION

Check all fasteners to ensure they have been properly tightened

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

CAUTION

Wear Hearing Protection during operation

CAUTION

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

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

REDEKOP MANUFACTURING

1.866.REDEKOP (1.866.733.3567)

Saskatoon, Saskatchewan Canada S7K 3J7
info@redekopmfg.com
www.redekopmfg.com

For additional and the most up to date Manuals:

EQR002

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