



Actuated Tailboard Installation Manual

0 Safety

0.1 Introduction

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

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



0.2 Recognize Safety Information

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



Follow recommended precautions and safe operating practices.

0.3 Understand Signal Words

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

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



0.4 Follow Safety Instructions

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

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

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

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

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



0.5 Safe Operating Practices

0.5.1 DO NOT stand near combine when machine is running.

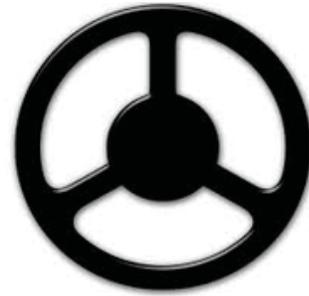
ALWAYS refer to your Combine Operator's Manual, and review Safety section before operating machine. The Combine Operator's Manual details safe operating practices that must be followed to protect you and others from accidental death and/or injury.

Operate machine only when all guards are correctly installed.

Before moving away, always check immediate vicinity of machine (e.g. for children). Ensure adequate visibility. Use the 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 of the combine.

Never leave machine 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.

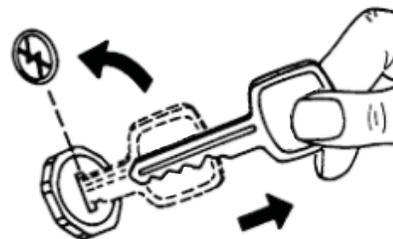


0.7 Remove Key from Ignition

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 machine while it is moving. Keep hands, feet, and clothing 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 machine.



0.10 Avoid Contact With Moving Parts

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



0.11 Avoid High-Pressure Fluids

0.11.1 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.



0.12 Dispose of Waste Properly

0.12.1 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.



0.13 Use Proper Lifting Equipment

0.13.1 Lifting heavy components incorrectly can cause severe injury or machine 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



0.14 Personal Protective Equipment (PPE)

0.14.1 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.

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)



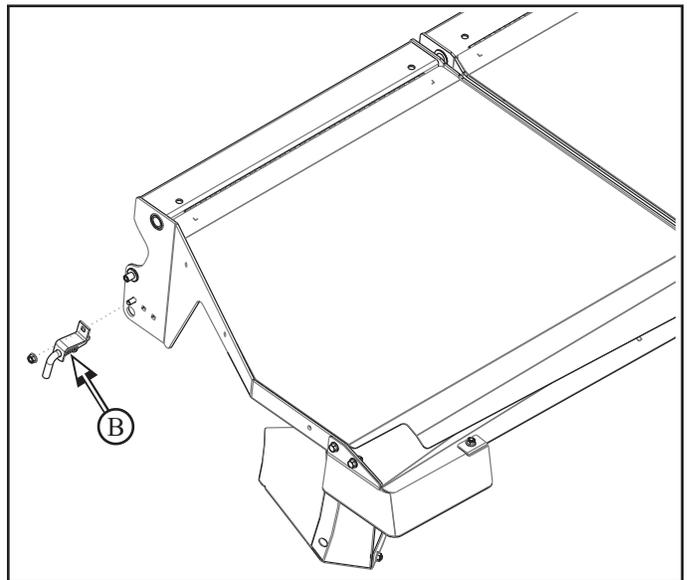
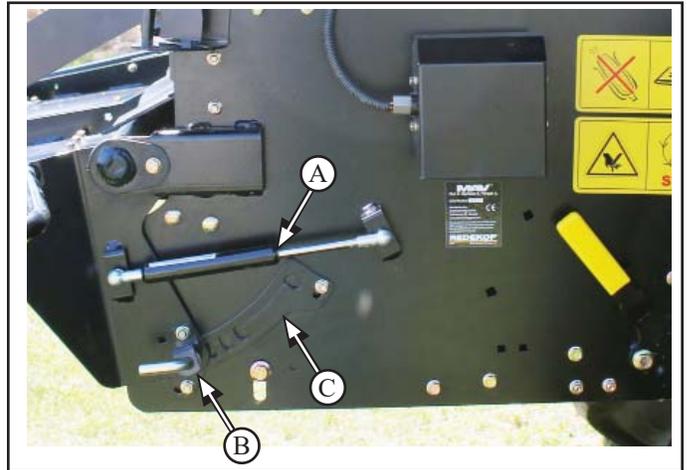
1 If your tailboard is manually controlled:



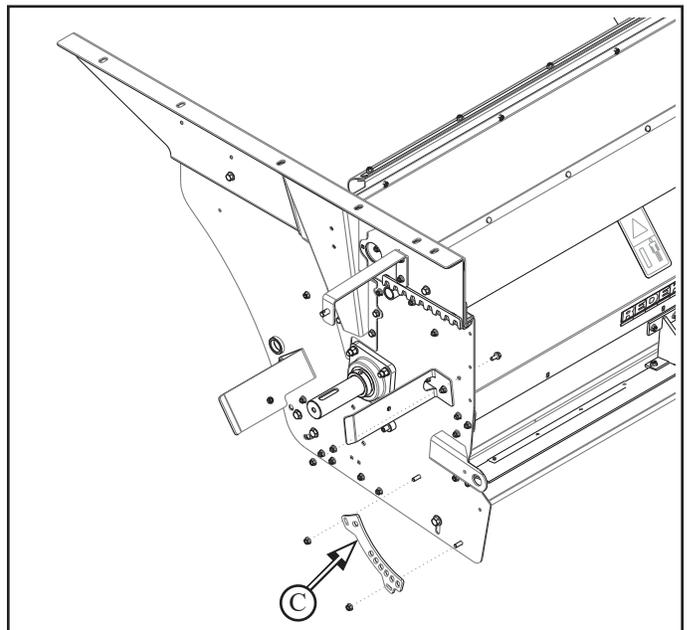
1.1.1 Remove gas spring (A) from the tailboard and chopper housing
- both sides

1.1.2 Block the tailboard up securely

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



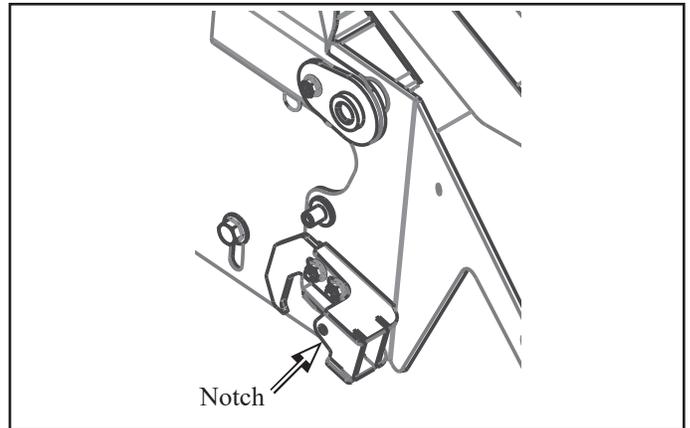
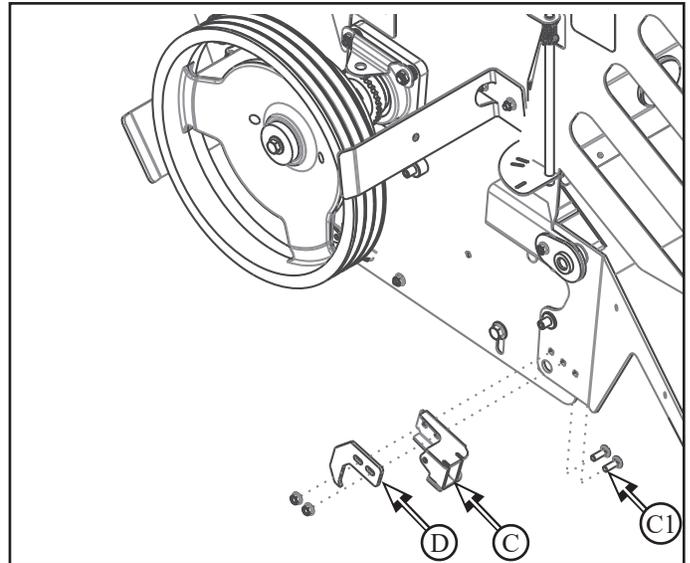
1.2 Remove tailboard adjustment lug (C) from the chopper housing
- both sides



2 Actuator Component Installation

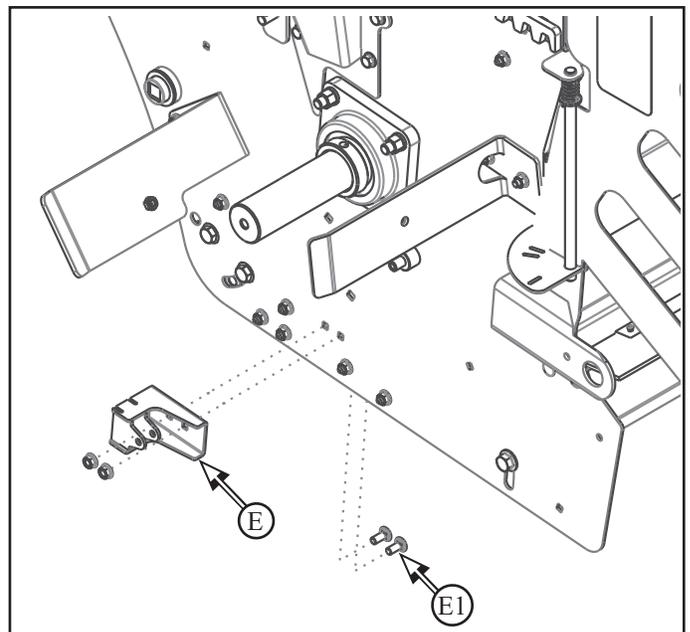
2.1 Install left actuator tailboard mount bracket (C) and hook (D) onto tailboard, with:

- M8 x 25 round head bolts and flange nuts (C1) x2
- ensure mount bracket has notch on bottom
- both sides



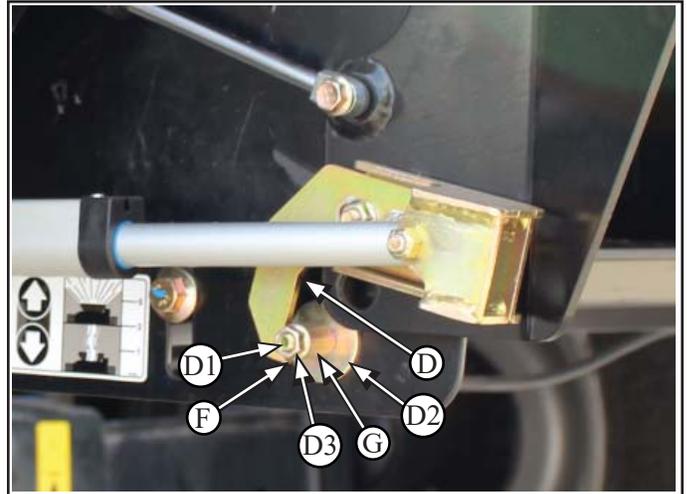
2.2 Install actuator chopper mount bracket (E) onto left side of chopper with:

- M8 x 20 round head bolts and flange nuts (E1) x2
- both sides



2.3 With the tailboard down, on the inside of the hook (D) install limiter pin (F) into left chopper wall with:

- M8 x 40 round head bolt (D1)
- head of bolt to be on inside of chopper
- flat washer (D2)
- limiter tube (G)
- lock nut (D3)
- both sides



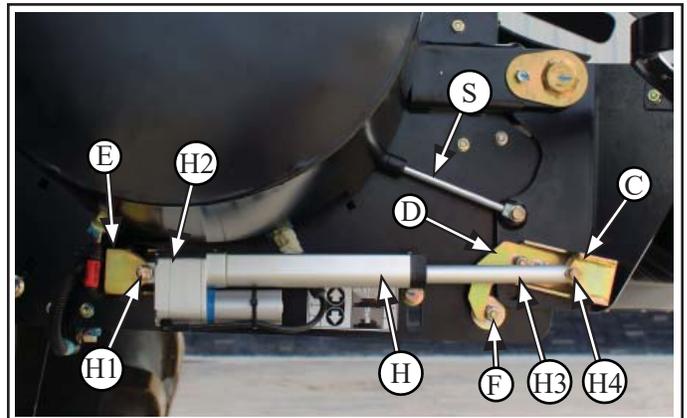
2.4 Install actuator RP940 (H)

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 Install shaft (H3) of actuator into left tailboard bracket (C) with:

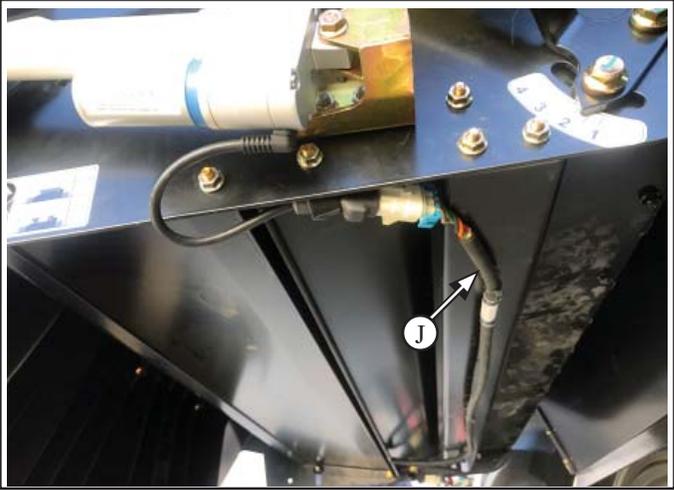
- M8 x 65 round head bolt and lock nut (H4)
- head of bolt to be on inside of tailboard
- both sides



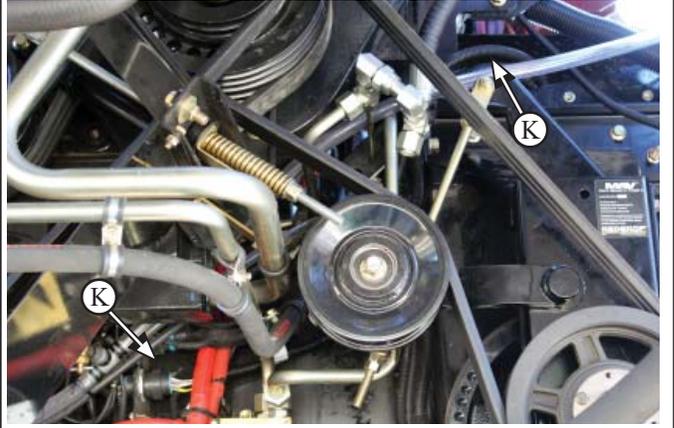
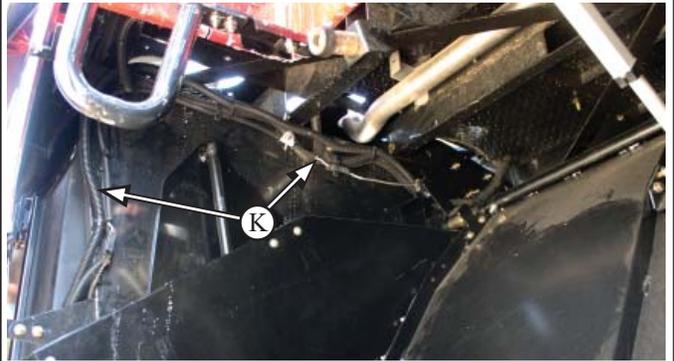
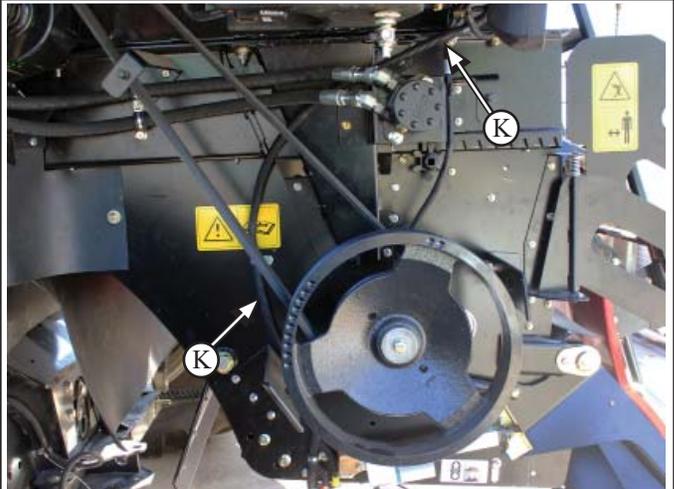
2.4.3.3 Adjust tailboard hook (D) until tailboards are even when up and to allow some stroke left in the gas shock (S) when the hook stops on the limiter pin (F) 124mm - 127mm (4 7/8" - 5")



2.5 Connect wiring harness RP892 (J) to both actuators and run underneath chopper



2.6 Install wiring harness 47590048 (K)



3 Software Update

3.1 Update software:

Use the 240-Series EST to set the new configurations on 230-Series and 240-Series machines.
(after the S/N break below)

The new cab machines start at S/N YDG218540

Software update required is: UCM1 - V33.33.0.0 or newer, UCM2 - V33.34.0.0 or newer (for S/N above and newer)

Display Software (Part # 48109497 Combine Axial Flow) V30.8.0.0

Machines <YDG218540 do not get software update and would require the spreader/chopper speed sensor placed on the 7-tooth target

3.2 Use EST to change the Machine Configuration for “Residue System”

3.3 Set configuration to:

Configuration Name	Type ID	Value
Residue System*	0x209C	*Impeller with 32cc Pump & 90cc Motor In-CAB Adjust*
Windrow Door	0x20A1	1 (installed)
Left Spread Deflector	0x2112	1 (installed)
Center Spread Deflector	0x2113	0 (not installed)
Right Spread Deflector	0x2114	1 (installed)
Hood Mount Chopper	0x2111	1 (installed)
Windrow Chute Extension	0x20A4	0 (not installed)

*For MY14 and newer machines with existing 90cc spreader motor and 32cc pump with in cab adjust, Value = 6

*For MY13 UCM machines with existing 74cc spreader motor and 28cc pump, Value = 3

3.4 Calibrate the windrow door and spread control actuators following the instructions in the Combine Owner’s Manual



CAUTION

Check all fasteners to ensure they have been properly tightened

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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.