

REDEKOP™

REDEKOP OPTION

WIDE SPREAD KIT

NARROW SPREAD KIT

INSTALLATION MANUAL

**PRODUCT NUMBER: 390-015, 390-015B, 590-080,
810-060, 810-070**

**Wide Spread, Narrow Spread Kit
Installation Manual
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0 Safety

0.1 Introduction

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

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



0.2 Recognize Safety Information

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

Follow recommended precautions and safe operating practices.



0.3 Understand Signal Words

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

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



0.4 Follow Safety Instructions

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

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

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

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

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

Other languages are available for this machine. Please contact Redekop



0.5 Safe Operating Practices

0.5.1 DO NOT stand near 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.

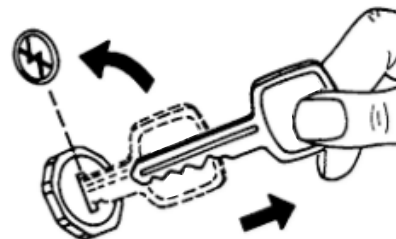


0.7 Remove Key from Ignition

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 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

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

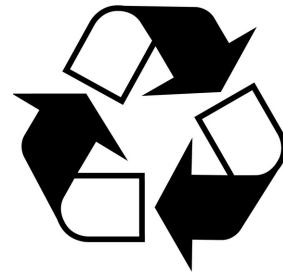


0.13 Dispose of Waste Properly

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 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



0.15 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.

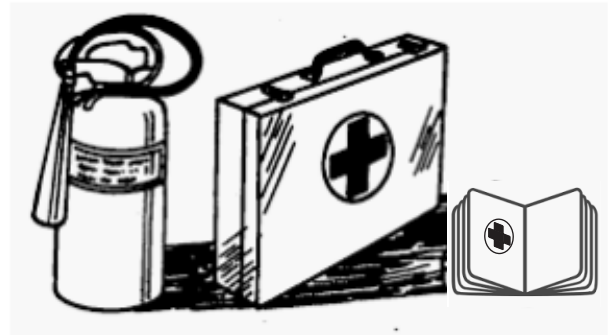


0.16 Prepare for Emergencies

0.16.1 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.



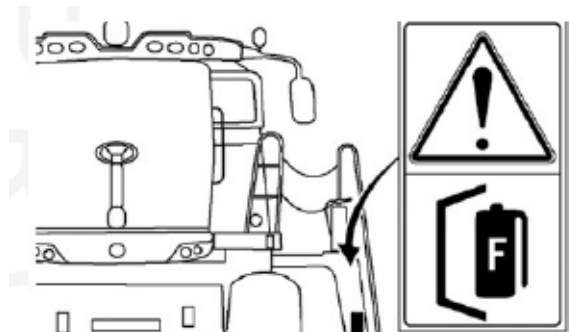
0.17 Fire Extinguisher

0.17.1 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.



0.18 Remove Accumulated Crop Debris

0.18.1 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.



0.19 In the Event of Fire

0.19.1 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)



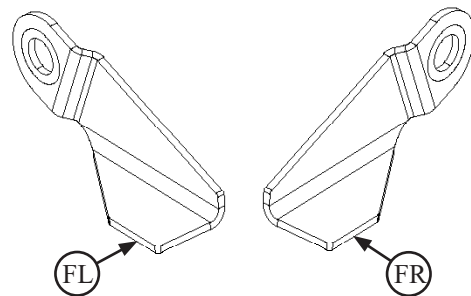
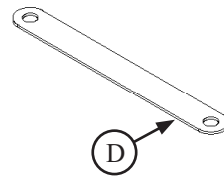
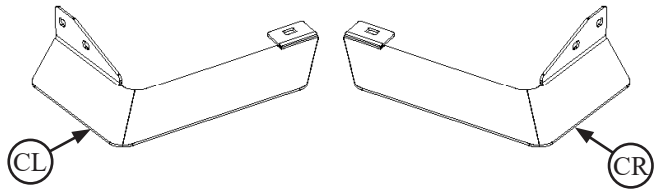
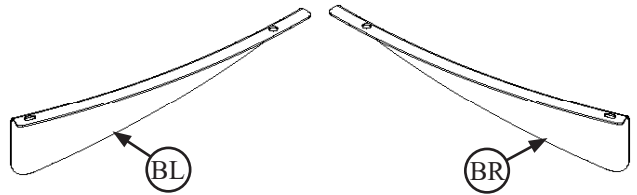
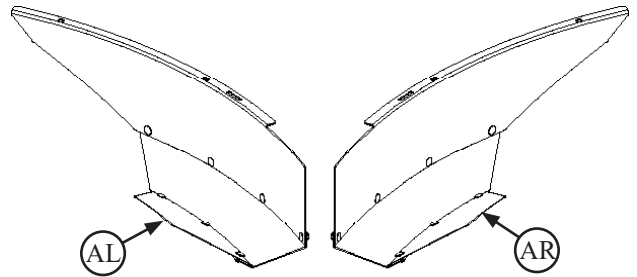
CAUTION

**Check all fasteners to ensure
they have been properly
tightened**

1 Wide Spread Kit Installation

KIT CONTENTS

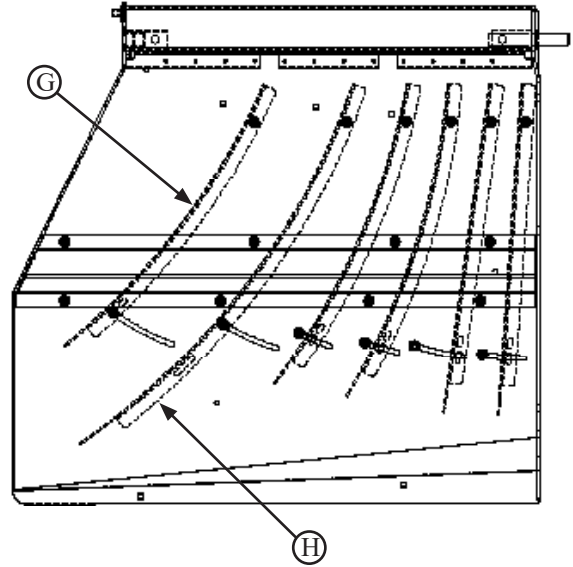
REF	ITEM DESCRIPTION	QTY
A(L)	Wide Spread Scooped Fin Assembly Left	1
A(R)	Wide Spread Scooped Fin Assembly Right	1
B(L)	Fin 19in Curve Left	1
B(R)	Fin 19in Curve Right	1
C(L)	Corner Extension Left	1
C(R)	Corner Extension Right	1
D	Link Wide Spread Fins	2
F(L)	2in Fan Blades Left	6
F(R)	2in Fan Blades Right	6
	Hardware Bag	1



1.1 Wide Spread Fin Installation

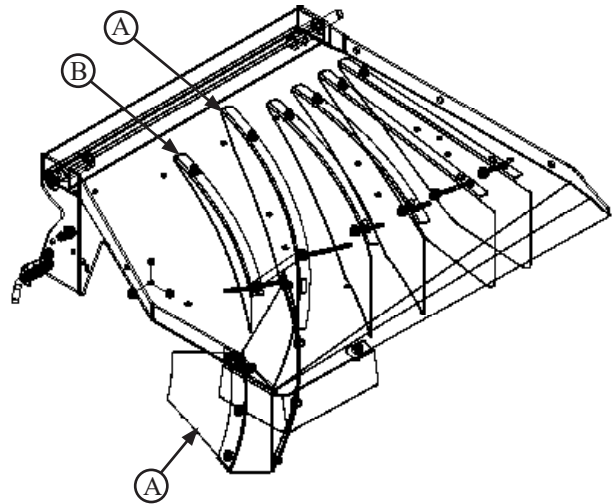
1.1.1 Remove outer 2 fins (**G & H**) on the Redekop tailboard

M8 x 16 round head bolts and flange nuts are to be reused to install new fins

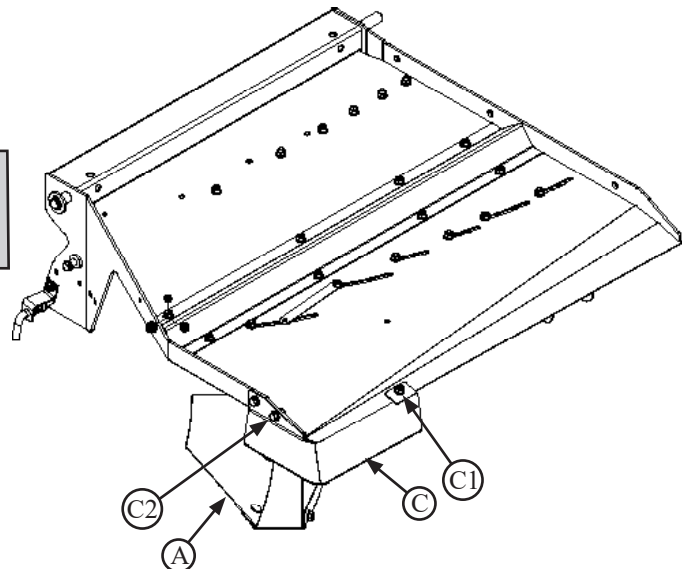


1.1.2 Install wide spread scooped fin assembly (**A**) onto tailboard

1.1.3 Install 19in curved fin (**B**) onto tailboard



1.1.4 Attach connector link (**D**) to the scoop fin assembly (**A**) and curved fin (**B**) on the top side of the tailboard



Note: For the scooped fin to work properly, the small fin must be set in position relative to the scooped fin with the connector link.

1.1.5 Install corner tailboard extension (**C**) on the rear corner with:

- M8 x 16 round head bolt x1 (**C1**)
- M8 x 16 hex head bolt x 2 (**C2**)
- M8 flange nut x 3

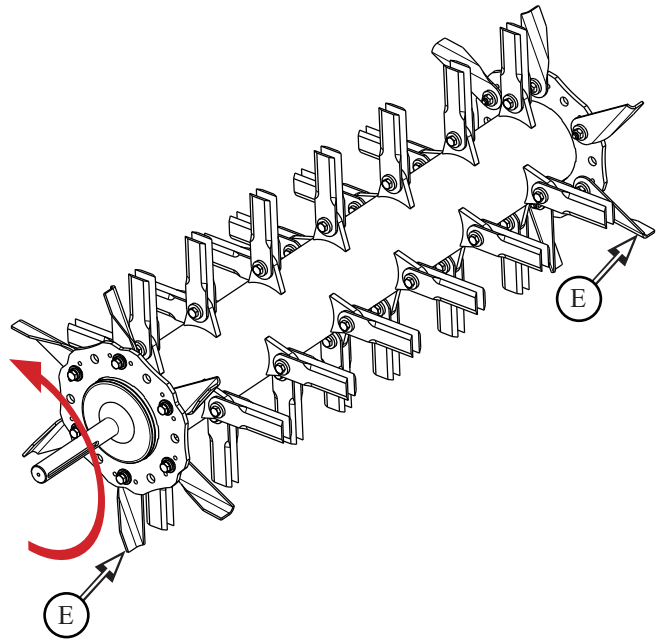
1.1.6 Repeat for other side

1.2 Wide Spread Fan Blade Installation

1.2.1 Remove standard spread 1.5in MAV fan blades (E) from outer ring of rotor

- both sides

- when removing and replacing fan blades with the rotor installed in the chopper housing, there will not be enough room to remove the bolt completely. Remove nut, flat washer and fan blade and replace with new fan blade, flat washer and new locknut.



1.2.2 Install wide spread 2.0in MAV fan blades (F) onto outer ring

- reuse bolts, bushings and flat washers


- use new M12 lock nuts (F1) included



** Ensure the blades are installed with paddle in direction of rotation **

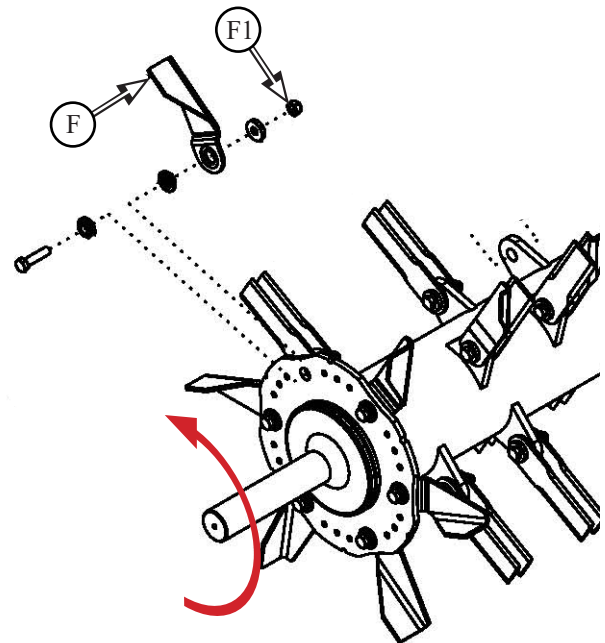
** Ensure the blades are on the inside of the ring **

** Ensure the heads of the bolts are on the outside of the ring **

1.2.3  Manually rotate rotor, holding blades out to verify clearance of each blade in relation to the shrouding.

There should be 3mm (1/8") clearance between the fan blades and any bolt-heads to allow for blade deflection.

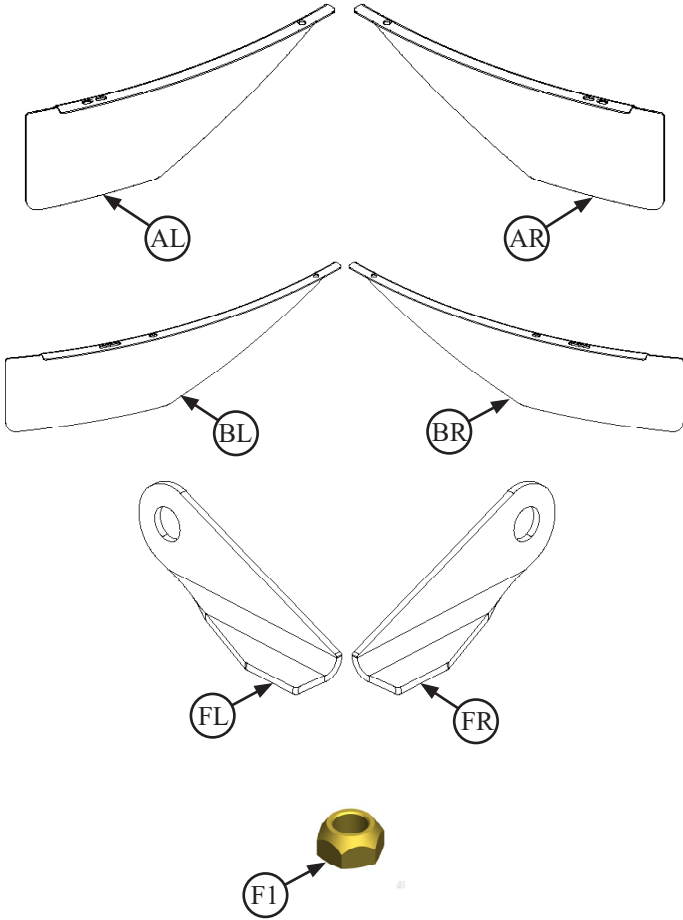
1.2.3.1 In order to provide the proper clearance, adjust the rotor from side to side. Continue adjusting until the blades have no contact with the shrouds, bolt-heads, knifebar blades or any part of the housing.



2 Narrow Spread Kit Installation

KIT CONTENTS

REF	ITEM DESCRIPTION	QTY
AL	Fin 22in Curve Left	1
AR	Fin 22in Curve Right	1
BL	Fin 31in Curve Left	1
BR	Fin 31in Curve Right	1
FL	1.5in Fan Blades Left	6
FR	1.5in Fan Blades Right	6
F1	M12 Steel Locknut	12

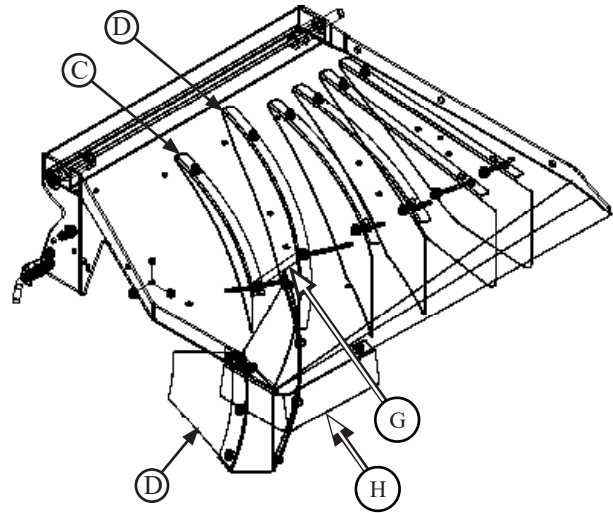


2.1 Narrow Spread Fin Installation

2.1.1 Remove wide spread components from the Redekop tailboard:

- connector link (G)
- 19in curved fin (C)
- wide spread scooped fin assembly (D)
- corner extension (H)

hardware is to be reused to install new fins



2.1.2 Install 22in curved fin (A)

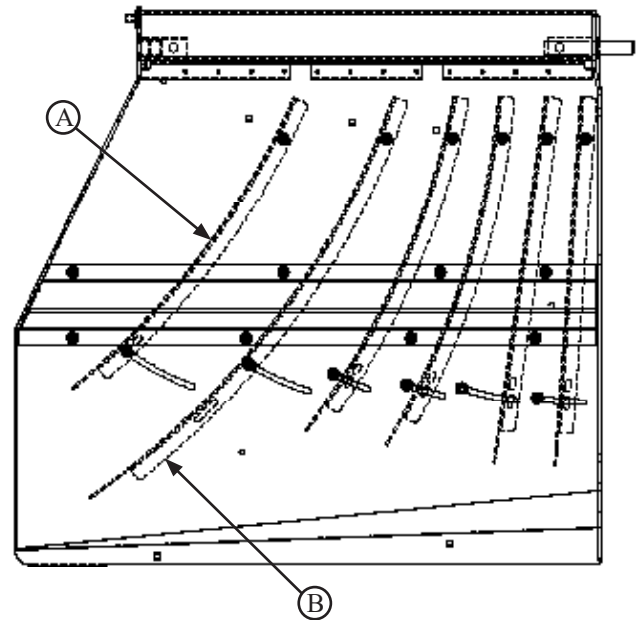
2.1.3 Install 31in curved fin (B)

All components are installed with:

M8 x 16 Round Head Bolts (heads on bottom of tailboard)

M8 Flanged Nuts (on top of tailboard)

2.1.4 Repeat for other side

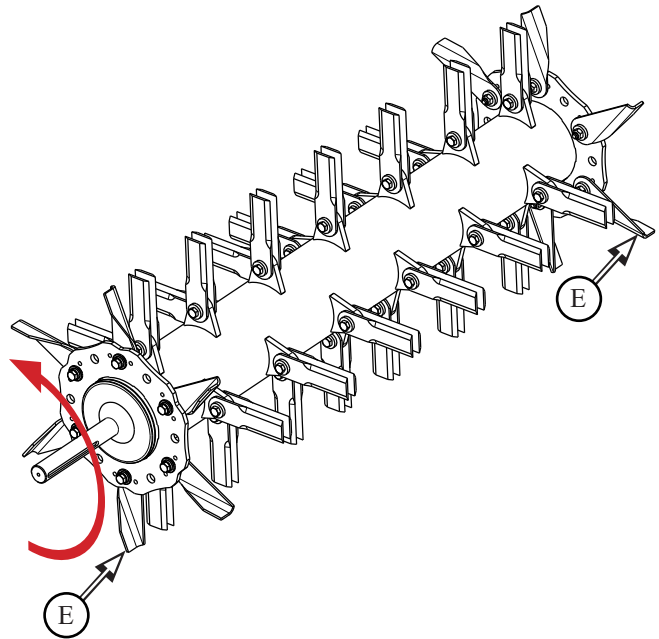


2.2 Narrow Spread Fan Blade Installation

2.2.1 Remove wide spreade 2.0in MAV fan blades (E) from outer ring of rotor

- both sides

- when removing fan blades with rotor installed in the chopper housing, there will not be enough room to remove the bolt completely. Remove nut, flat washer and fan blade and replace with new fan blade, flat washer and new locknut.



2.2.2 Install 1.5in MAV fan blades (F) onto outer ring

- reuse bolts, bushings and flat washers

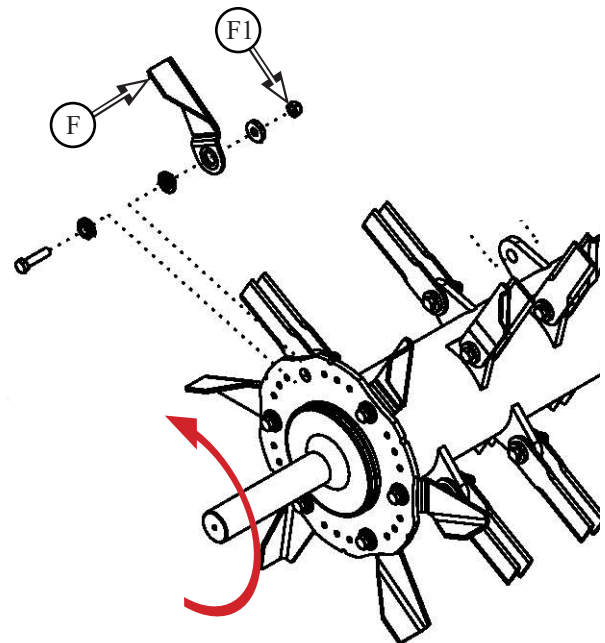
- use new M12 lock nuts (F1) included




** Ensure the blades are installed with paddle in direction of rotation **

** Ensure the blades are on the inside of the ring **

** Ensure the heads of the bolts are on the outside of the ring **



2.2.3  Manually rotate rotor, holding blades out to verify clearance of each blade in relation to the shrouding.

There should be 3mm (1/8") clearance between the fan blades and any bolt-heads to allow for blade deflection.

2.2.3.1 In order to provide the proper clearance, adjust the rotor from side to side. Continue adjusting until the blades have no contact with the shrouds, bolt-heads, knifebar blades or any part of the housing.



CAUTION

Check all fasteners to ensure they have been properly tightened

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M12 - flanged	93 / (69)	134 / (98)
	- non flanged	85 / (63)



CAUTION

Wear Hearing Protection during operation



CAUTION

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



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

Notes:

REDEKOP MANUFACTURING

1.866.REDEKOP (1.866.733.3567)

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For additional and the most up to date Manuals:



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