

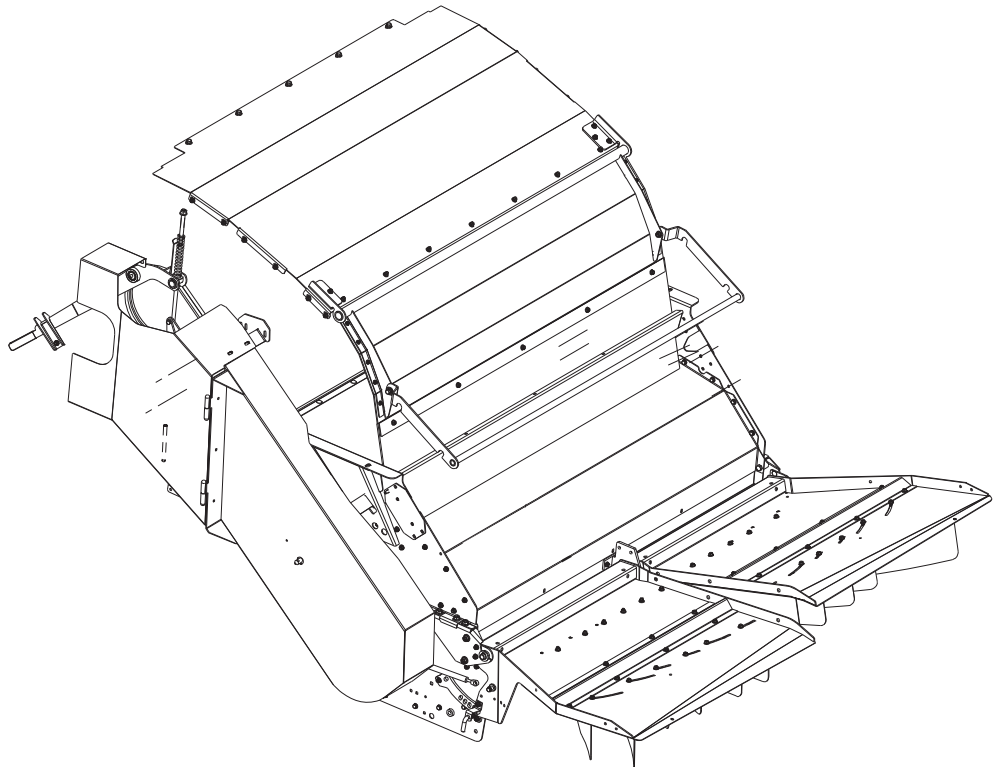
REDEKOP™

MAV STRAW CHOPPER NEW HOLLAND

INSTALLATION MANUAL

PRODUCT NUMBER: **101-001W**

CH001-01_R17



ROTOR BLADE

IMPORTANT! The paddle blades, located on the balance rings inside the chopper, must be installed in the direction shown (A). The straight edge of the blade cuts the air while the paddle trails behind & pushes the air.

1. The blades for your chopper must be installed as outlined.

Note: If blades are installed other than as directed, damage to the chopper may result or performance may be significantly reduced.

1) Always replace blades two pairs at a time, directly opposite each other through the center of the rotor. This should maintain rotor balance. **Never replace only one blade for wear or breakage.** You do not need to replace the corresponding two pairs on the other end of the rotor.

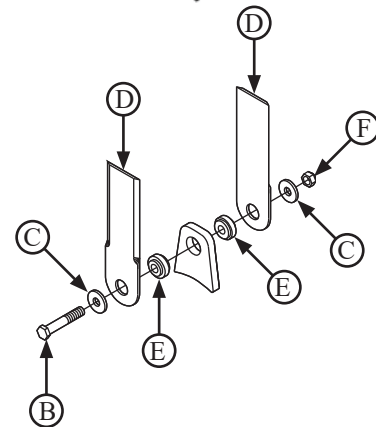
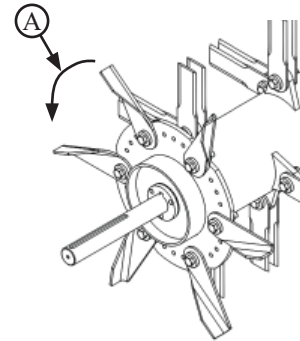
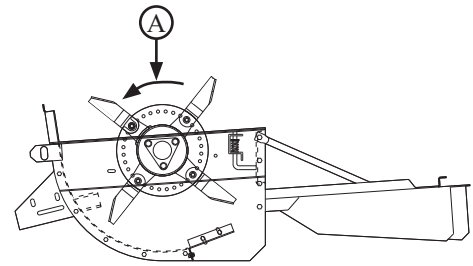
2) If a blade breaks and the chopper must be operated without a replacement then the damaged blade and the one directly opposite it must both be removed to maintain rotor balance.

3) Use only METRIC class 10.9 bolts (B) and class 10.9 DIN980V steel lock nuts (F) on the chopper rotor.

4) Use a torque wrench to tighten all M12 nuts to the recommended 69 ft-lb.

5) Always check for adequate clearance between the installed blades and the stationary knives. A minimum of 1/4" is required. Check clearance of all blades, even those that are not replaced. Do not operate the straw chopper unless this clearance is maintained for all blades.

2. Assembly order for blade pairs (B to F).



Metric Bolt Torque Table

Property Class	8.8	8.8	10.9	10.9
Nominal Size & Thread Pitch	(Nm)	(Ft-lbs)	(Nm)	(Ft-lbs)
M6x1.00	8*	6	11	8
M8x1.25	19	14	27	20
M10x1.50	38	28	54	40
M12x1.75	66	49	94	69
M14x2.00	106	78	150	111
M16x2.00	164	121	233	172
M18x2.50	226	167	323	238
M20x2.50	319	235	457	337

*All values for dry, yellow zinc plated hardware

A - Blade direction
 B - Hex cap screw
 C - Washer
 D - Blade, straight
 E - Bushing, straight blade
 F - Lock nut



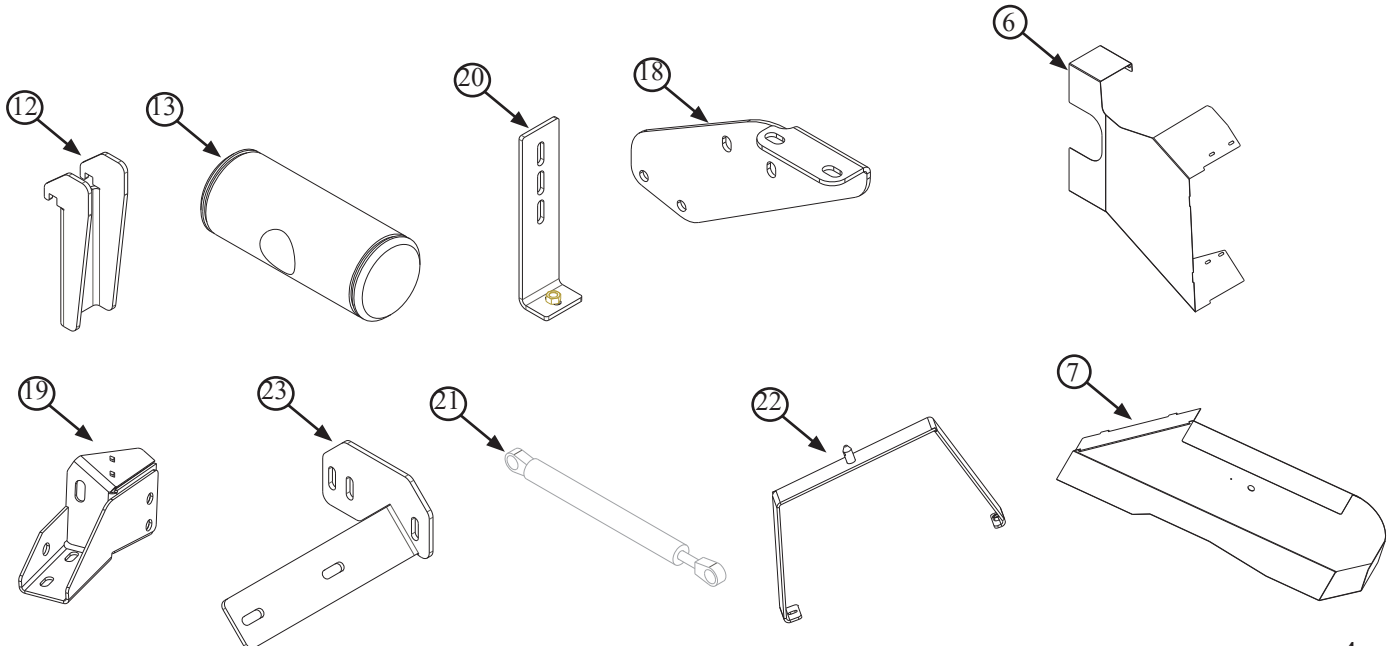
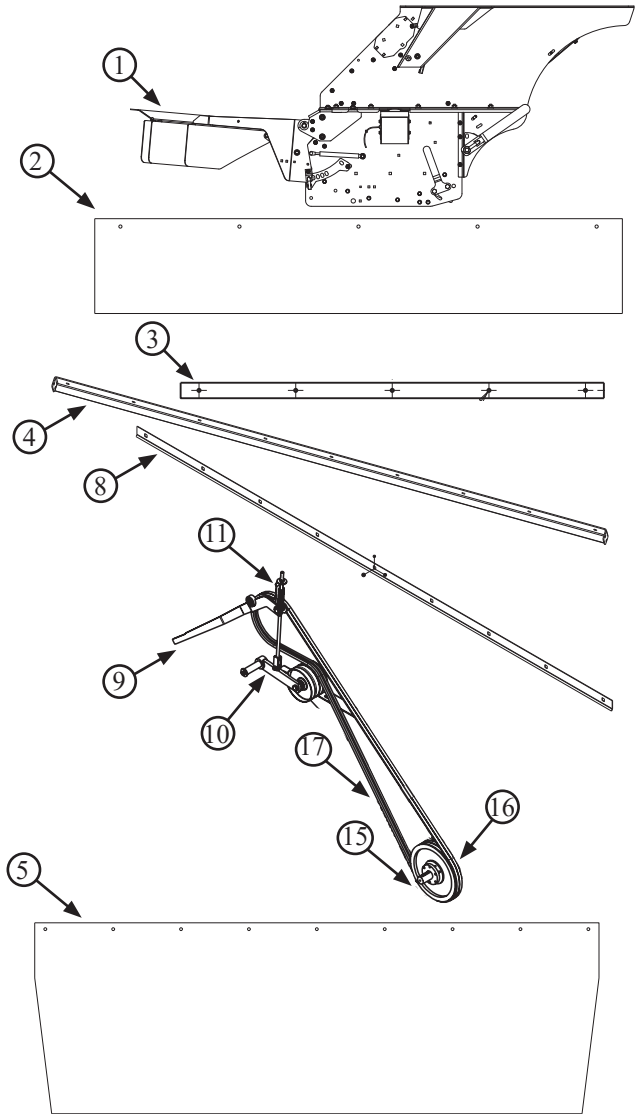
CAUTION: Always use METRIC class 10.9 bolts and class 10.9 DIN980V steel lock nuts when installing blades. Allowable torque range for blade mount nuts is 69 ft-lb.

Torque values listed are for general use only, based on the strength of the bolt. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For stainless steel fasteners or for nuts on U-bolts, see the tightening instruction for the specific application. Tighten plastic insert or crimped steel type lock nuts by turning the nut to the dry torque shown in the chart, unless different instructions are given for the specific application.

"Dry" means plain or zinc plated without any lubrication.

CONTENTS

REF	ITEM No	ITEM DESCRIPTION	QTY
1	CH400BA	CHOPPER BASE ASSY	1
2	CH248-01	BELT CR STRAW DOOR	1
		12 x 66.75L	1
3	CH152B	STRAP BACKING	1
4	CH509B	COLUMN BELT MOUNT 67 IN	1
5	CH513-01	BELT CR WIDE SIEVE EXT	1
		22.5 x 66.5L	1
6	CH550B	SHIELD UPPER CR	1
7	CH530B	SHIELD LOVER DRIVE CR	1
8	CH514B	Strap Wide Sieve Ext	1
	CR DRIVE BOX		
9	CH345BA	HANDLE ADJ IDLER ASSY	1
10	CH522B	ASSEMBLY IDLER CR DRIVE	1
11	CH135Z	LINK TENSION 21.5L	1
12	CH349B	LATCH PLATE CR Drive	1
13	CH177Z	PIVOT UNIVERSAL	1
14	RP114	PULLEY IDLER FLAT	2
15	RP291	Bushing Taper SK	1
		50mm ID	1
16	RP667	SHEAVE SK	1
17	BE2B146K	BELT 2B POWERBAND 146L	1
	CR COMPLETION BOX		
18	CH508BR	Mount Sieve Ext Rt NH	1
18	CH508BL	Mount Sieve Ext Rt NH	1
19	CH505BR	SIEVE CR/CX RT 4.4H x 7.7L	1
19	CH505BL	SIEVE CR/CX LT 4.4H x 7.7L	1
20	CG138B	Bracket Drive Shield Mnt 8L	1
21	RP105	12.5L	2
22	CH358B	Shield Brkt 17.4L x 9.353W	1
23	CH356B	CR9000 Shield Mnt 8.5L	1



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 Practice Safe Maintenance

0.7.1 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.



0.8 Avoid Contact With Moving Parts

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



0.9 Avoid High-Pressure Fluids

0.9.1 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.



0.10 Dispose of Waste Properly

0.10.1 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.



0.11 Use Proper Lifting Equipment

0.11.1 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

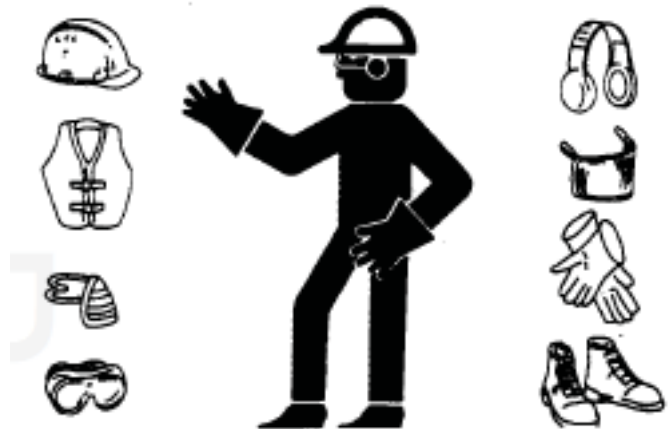


0.15 Personal Protective Equipment (PPE)

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 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.

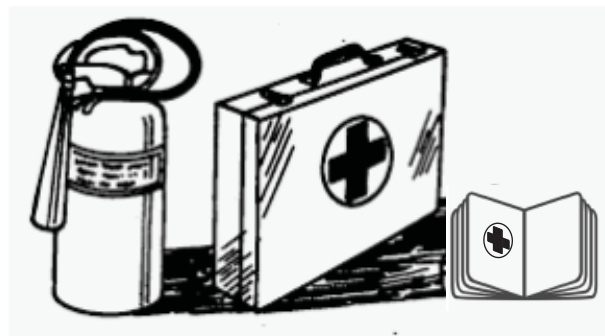


0.17 Prepare for Emergencies

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.



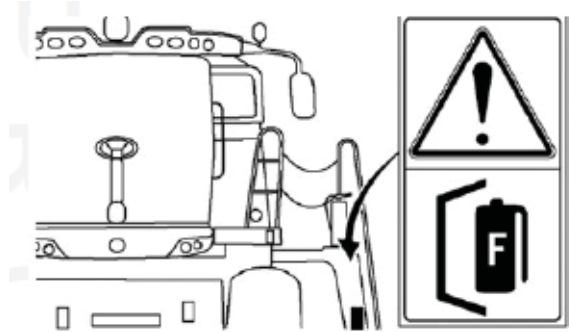
0.18 Fire Extinguisher

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!
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. 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)



0.21 Safety Decals

Hand Injury / Rotate Danger
RP871



Projectile Hazard / Stand Clear
RP872



Caution / Check Service Manual
RP873



Keep Hands out of Belt Area
RP874



High Pressure Fluid Hazard / Check Service Manual
RP876

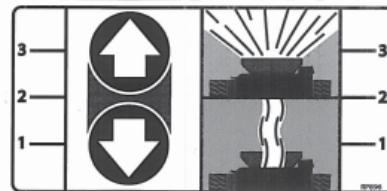


Pinch Point Hazard
84394351



0.22 Information Decals

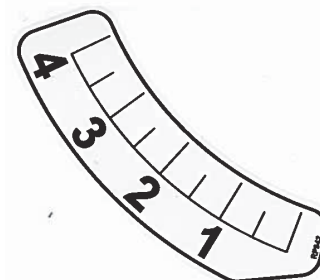
Windrow Floor Adjustment
Wide Spread / No Spread
RP896



Redekop Serial Number Plate
RP1171



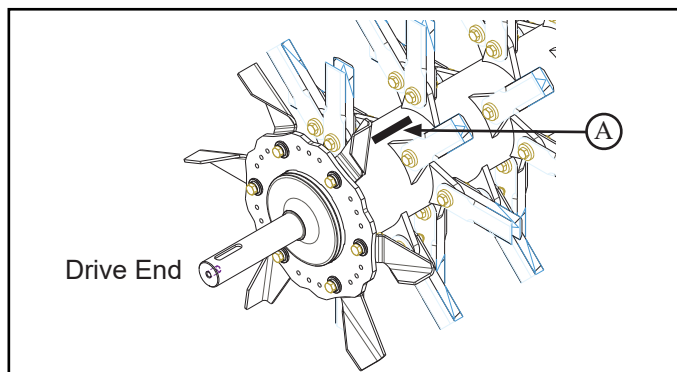
Knifebar Adjustment
RP942



0.23 Serial Number

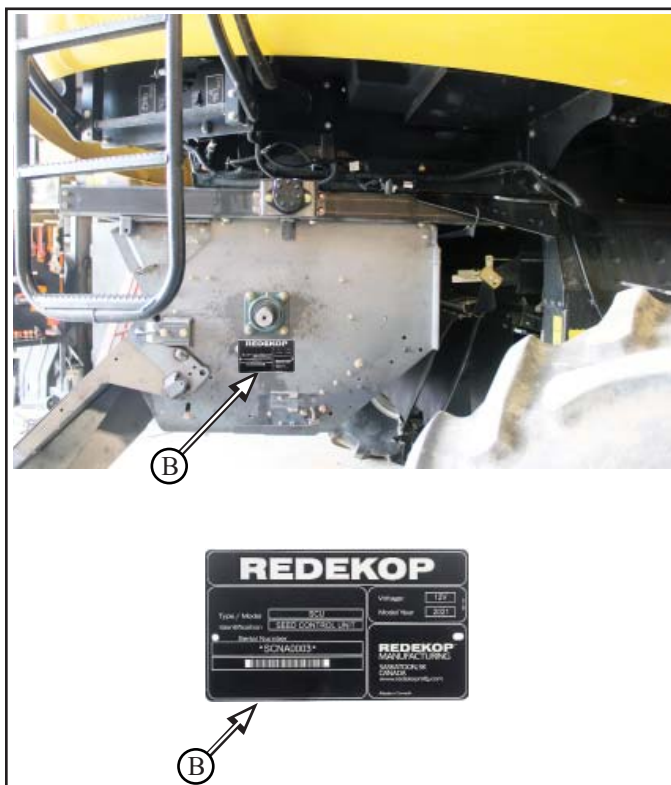
1. Rotor serial number (A):

- stamped on the rotor, located on the drive end



2. Straw chopper serial number plate (B):

- located on the chopper wall, non-drive side, below the rotor shaft shield



1 Removal of factory components for Installation of Redekop MAV Chopper

Combine with factory Straw Chopper and Draper conveyer panel requires the following actions:

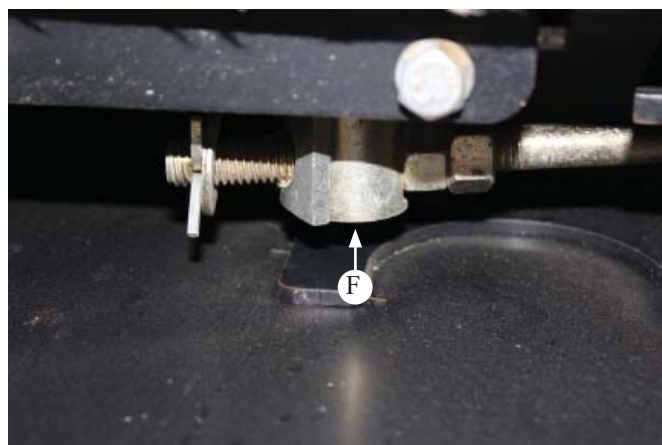
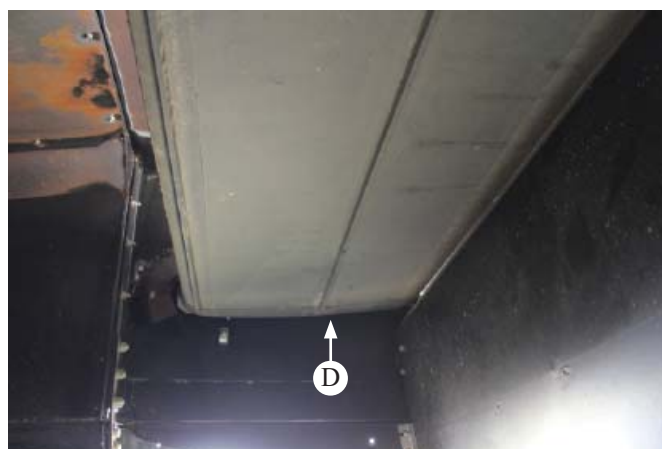
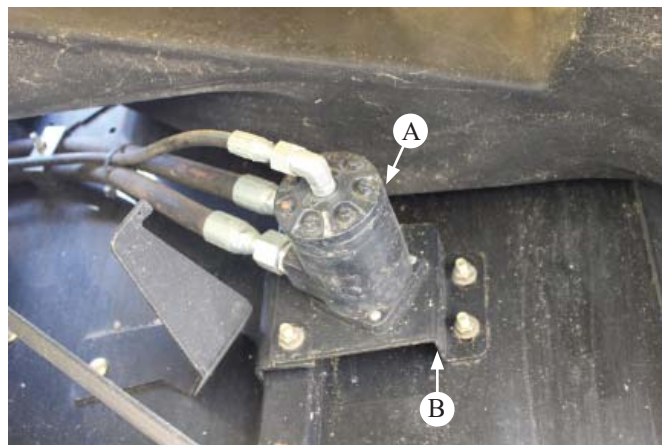
1.1 Remove the engine (A) on the left side combine side panel along with a bracket (B).

1.2 Remove the tank on the right hand side of the factory chopper (C).

1.3 Remove the Draper conveyor panel PSD (D) from the inside of, which is located above the factory chopper by taking apart the sleeve (E) on a right side and the side hinges (F) on both sides.



NOTE: For combines with factory draper. Remove Draper from inside of the combine. Also remove setting in the combine computer. Go to: Combine Info -> Residue -> Shut off or Uninstall Draper / Chaff spinners. To prevent low RPM warnings.



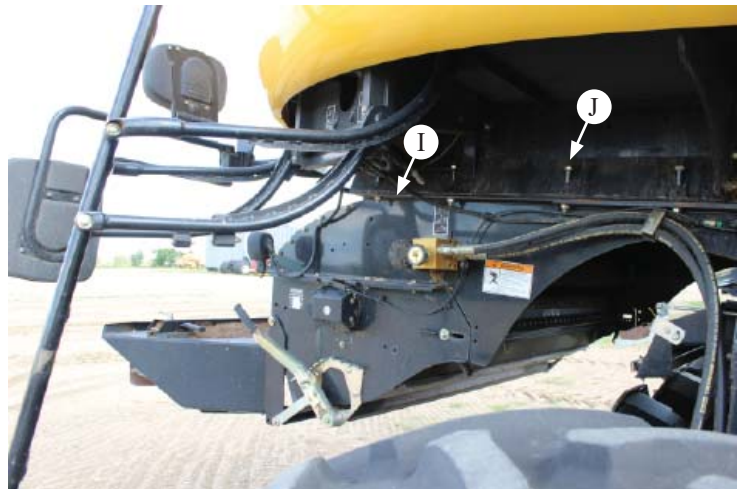
1.4 Remove factory spreader (**G**).



1.5 Remove lower factory shield (**H**) from drive side.



1.6 Remove factory chopper (**I**) by taking five bolts (**J**) off from each side. Those bolts will be re-used for Redekop chopper.

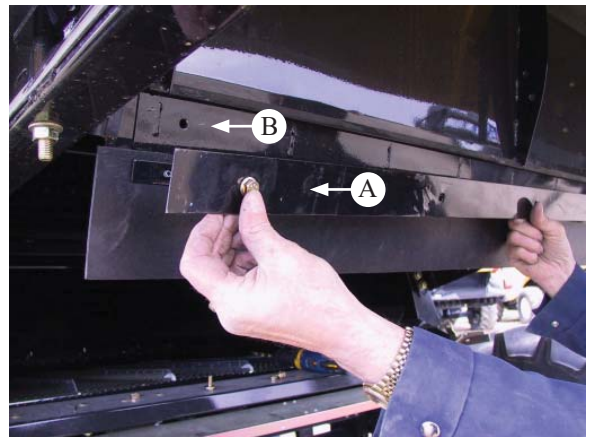


2 Installation of Straw Door (for combines with existing straw door)

2.1 Align mount plate (A) to existing holes in factory straw door (B). Drill and install bolt on each end and use mount plate as a guide to drill 3 other holes (C). (See Hardware Definitions in Appendix 1)

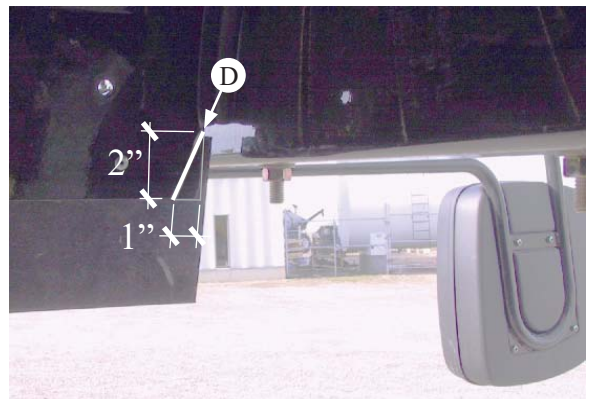
There are following type of plates:

- Plate 55"x 2"x 0.06" (for CR940-960)
- Plate 67"x 2"x 0.06" (for CR970,9070,9080)

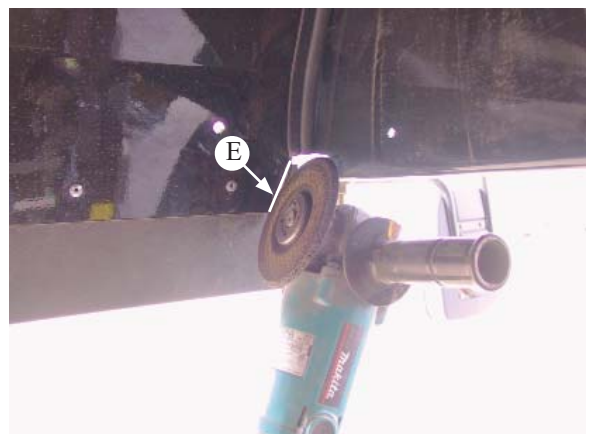


***FOR CR940-960 ONLY**

Mark an angled line (D) on the left and right bottom corners of straw door to prepare for trimming. DO NOT trim factory belting. (Photo taken from inside of combine hood)



2.2 Cut off bottom corner of straw door (E) on both sides. Cut steel ONLY.



2.3 Mount belting (F) to the outside of the straw door (B) with steel mount plate (A).

Types of belting:

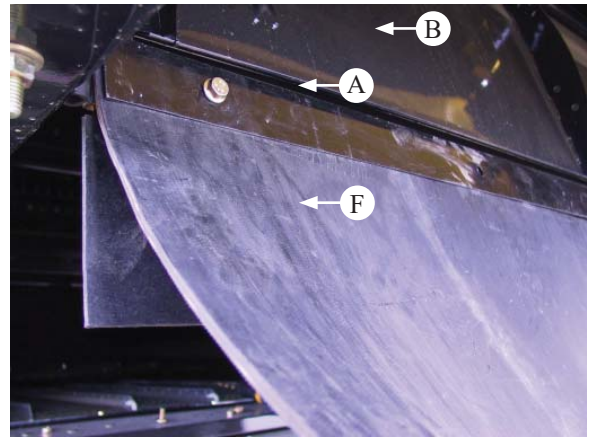
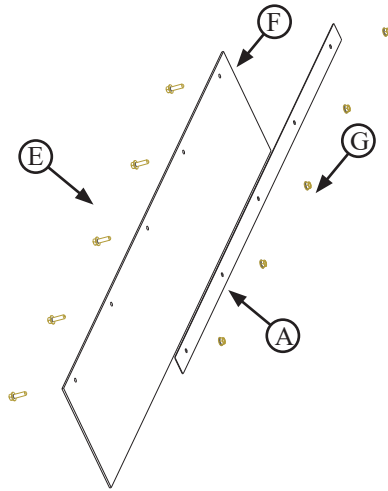
- Belting 55"x 12"x 0.188" (CR940-CR960)
- Belting 67"x 12" x 0.188" (CR970)

For tightening use:

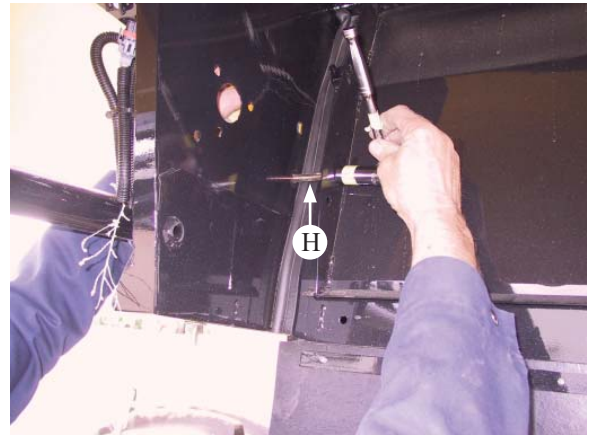
5 pcs. - of Bolts, Flag M10 x 35 (E)

5 pcs. - of M10 Flange Nuts (G).

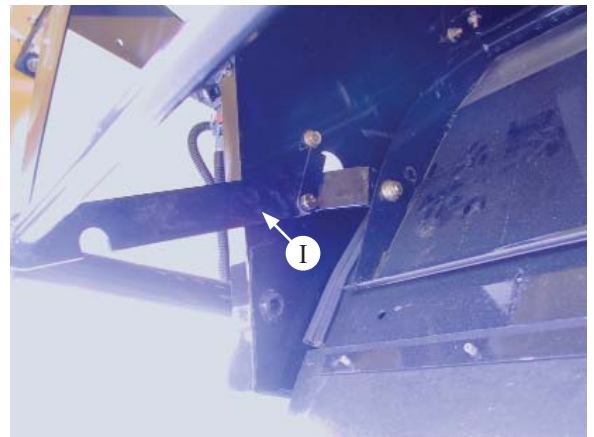
Insert bolts from the inside - out.



2.4 Remove factory shipping bolt securing straw door (H).

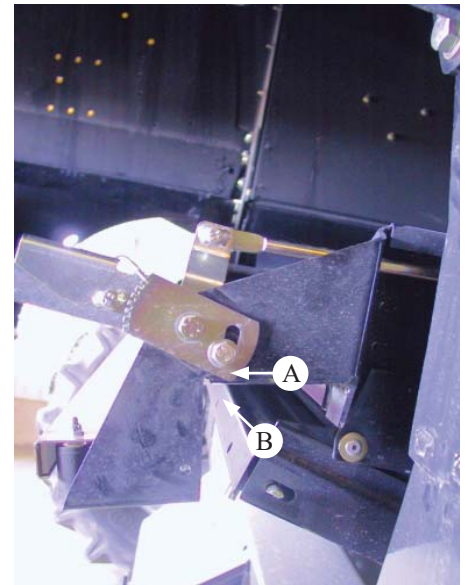


2.5 Pivot handle so the straw door is in the rearward position (I). HOLD this position when mounting chopper.



3 Sieve Extension Installation

3.1 Loosen bolt (A) at back of sieve and rotate corner flush with bottom edge (B).

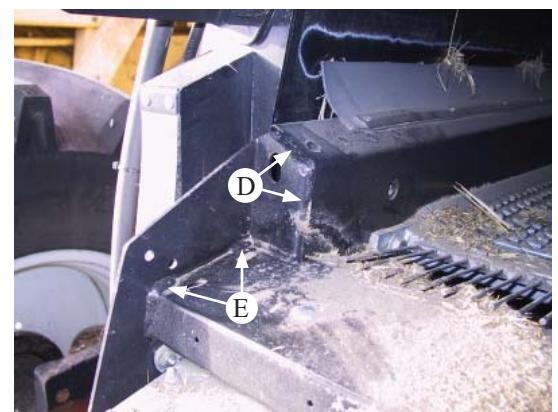
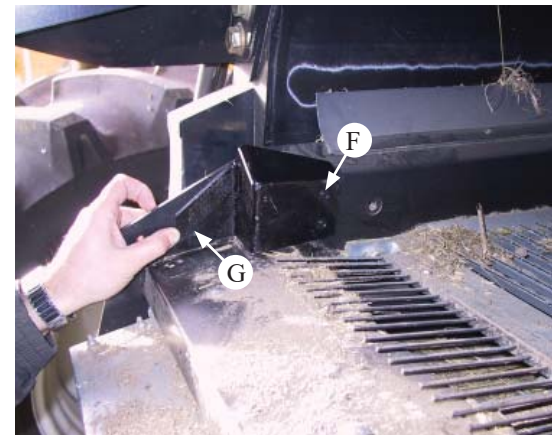
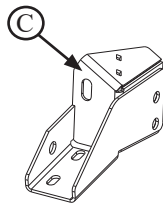


3.2 Attach LH sieve reinforcement bracket (C). Grind welds flush on sieve frame (D) to fit bracket properly in place. Be sure bracket fits tight up against sieve wall. Grind reinforcement bracket to fit around existing welds (E) if necessary. Drill 2 holes at (F) and 1 hole at (G) in sieve wall and bolt in place (Drill 1/2" dia. holes).

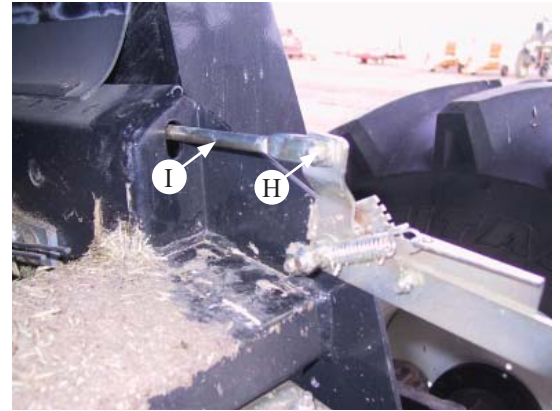
For tightening use:

8 pcs. - Bolt, Flg M12 x 25

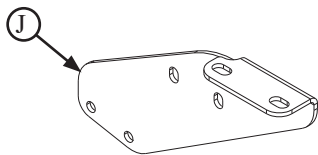
8 pcs. - Nut, Flg M12



3.3 On RH side remove bolt (H) and install sieve reinforcement bracket over slide bracket (I).



3.4 Attach sieve extension mount (J) to combine grain loss monitor bracket (K). Drill 11/32" hole on the grain loss monitor bracket and bolt mount into place. Bolt up from bottom on upper flange (L). For tightening use:
8 pcs. - Bolt, Flg M8 x 25
8 pcs. - Nut, Flg M8

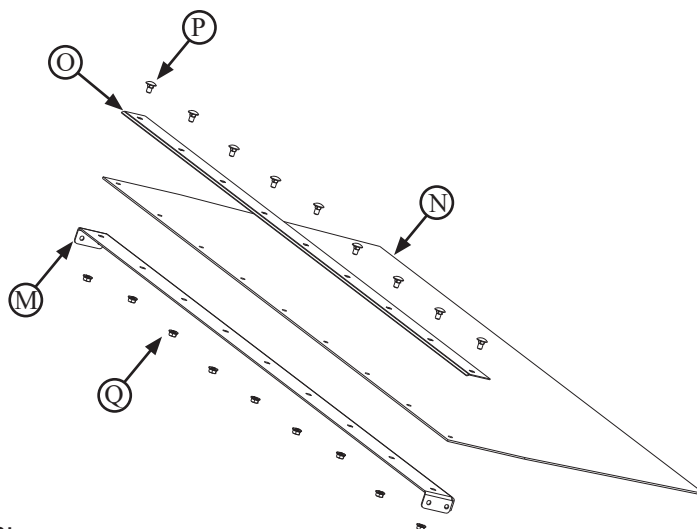


3.5 Assemble channel (**M**), belting (**N**), and strap (**O**) together.

For tightening use:

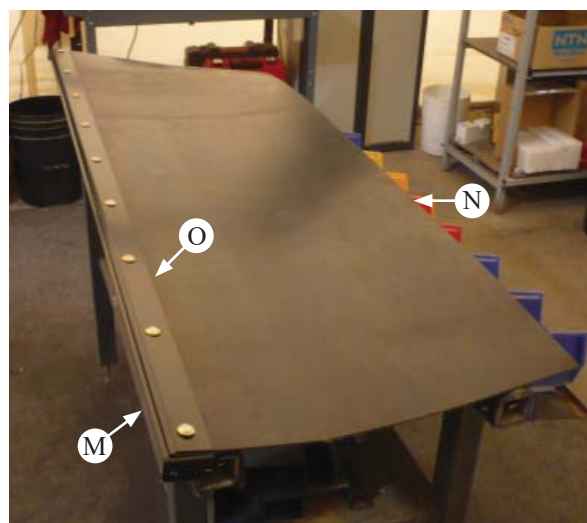
9 pcs. - Bolt, Round Hd M8 x 16 (**P**)

9 pcs. - Nut, Flg M8 (**Q**)

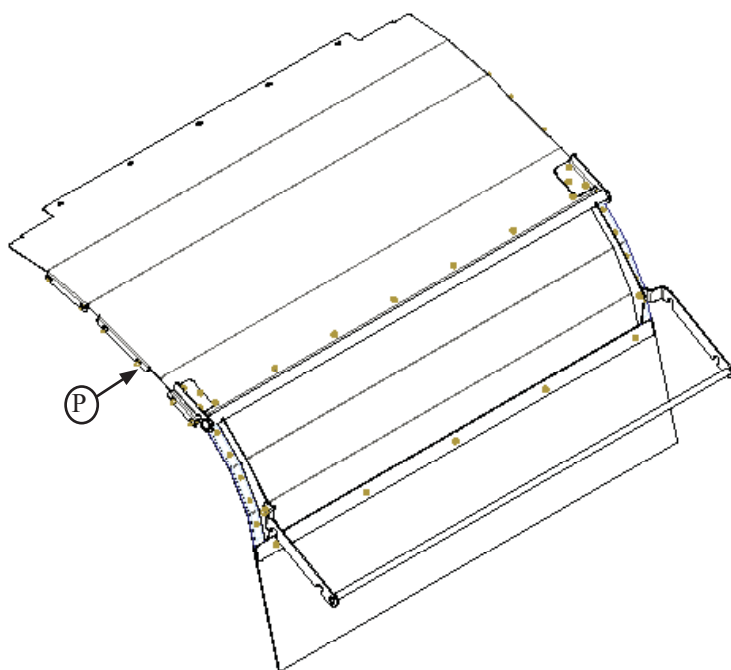


3.6 Attach belting assembly to sieve extension mounts (**J**) with:

M8 x 16 Round head bolt and flange nut x4



NOTE: For choppers without factory straw door
order CR Straw Door Kit #190-090 (wide)
or #190-100 (narrow) (**P**)

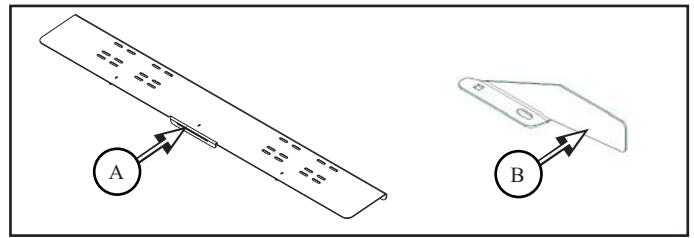


4 Chaff and Internal Deflector Fins

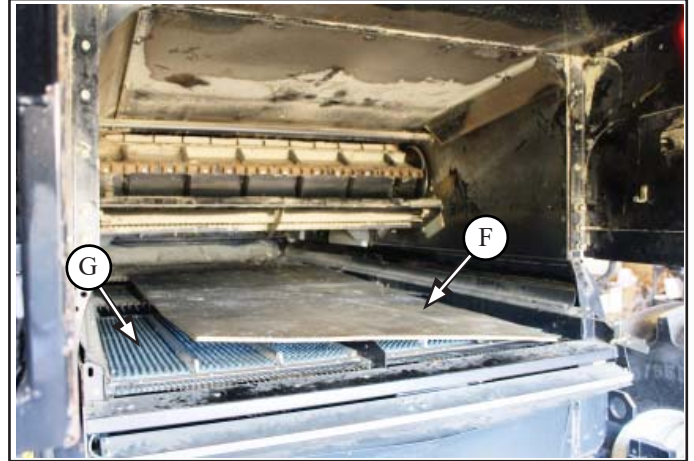
4.1 Internal Deflector Fin Installation

Parts List:

CH737B	Beater Extension CR (A)	Qty 1
CD733B	Internal Deflector Fin (B)	Qty 2



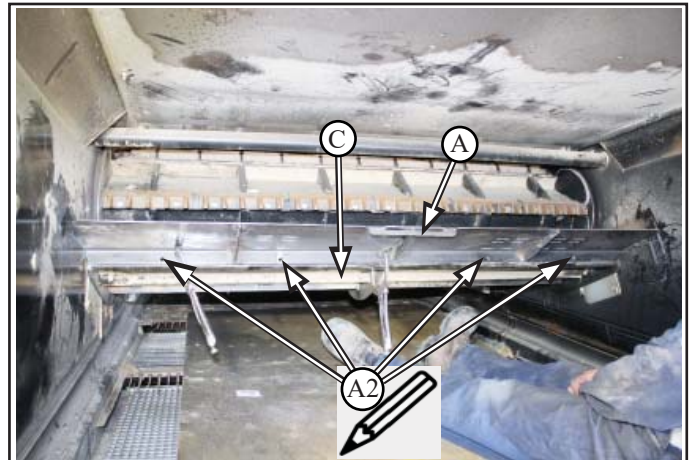
4.1.1 Lay plywood (F) on top of sieve (G) to prevent damaging sieve



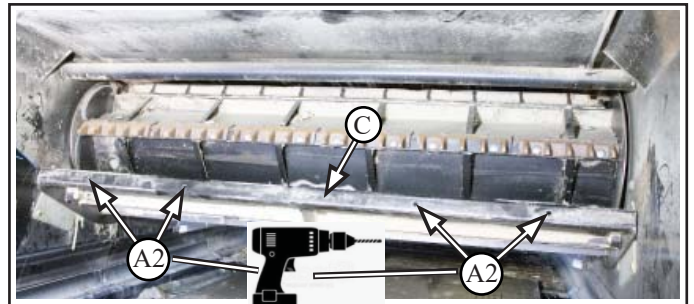
4.1.2 Clamp beater extension (A) to edge and flush to top of beater floor (C)

4.1.2.1 Mark holes (A2) x4 to be drilled

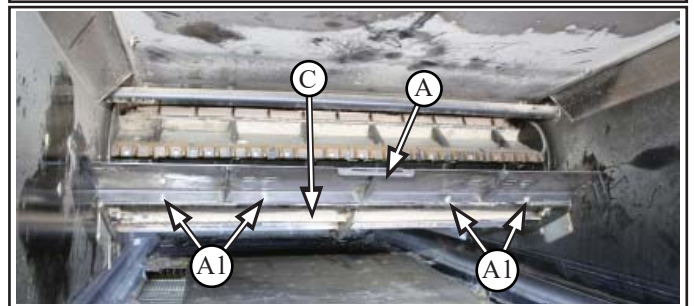
4.1.2.2 Remove beater extension (A)



4.1.3 Drill 11.5mm (.4375 in) holes (A2) x4 at marked locations

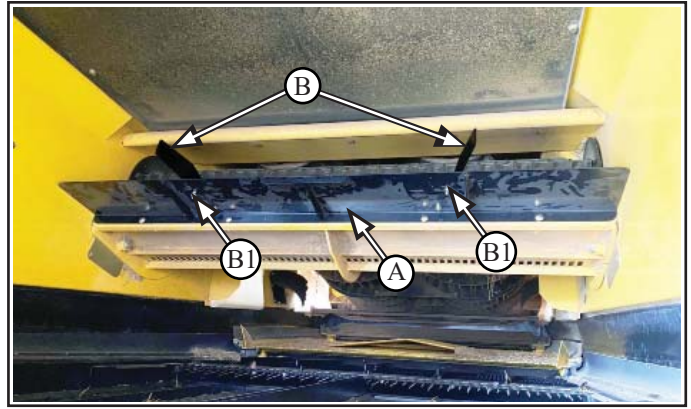


4.1.4 Install beater extension (A) to beater floor (C), with:
- M10 x 20 flange head bolt and flange nut (A1) x4



4.1.5 Mount internal deflector fins (**B**) onto top of beater extension plate (**A**) with:

- M8 x 16 round head bolt and flange nut (**B1**) x4
- ensure head of bolt is on top



INTERNAL DEFLECTOR SETTING

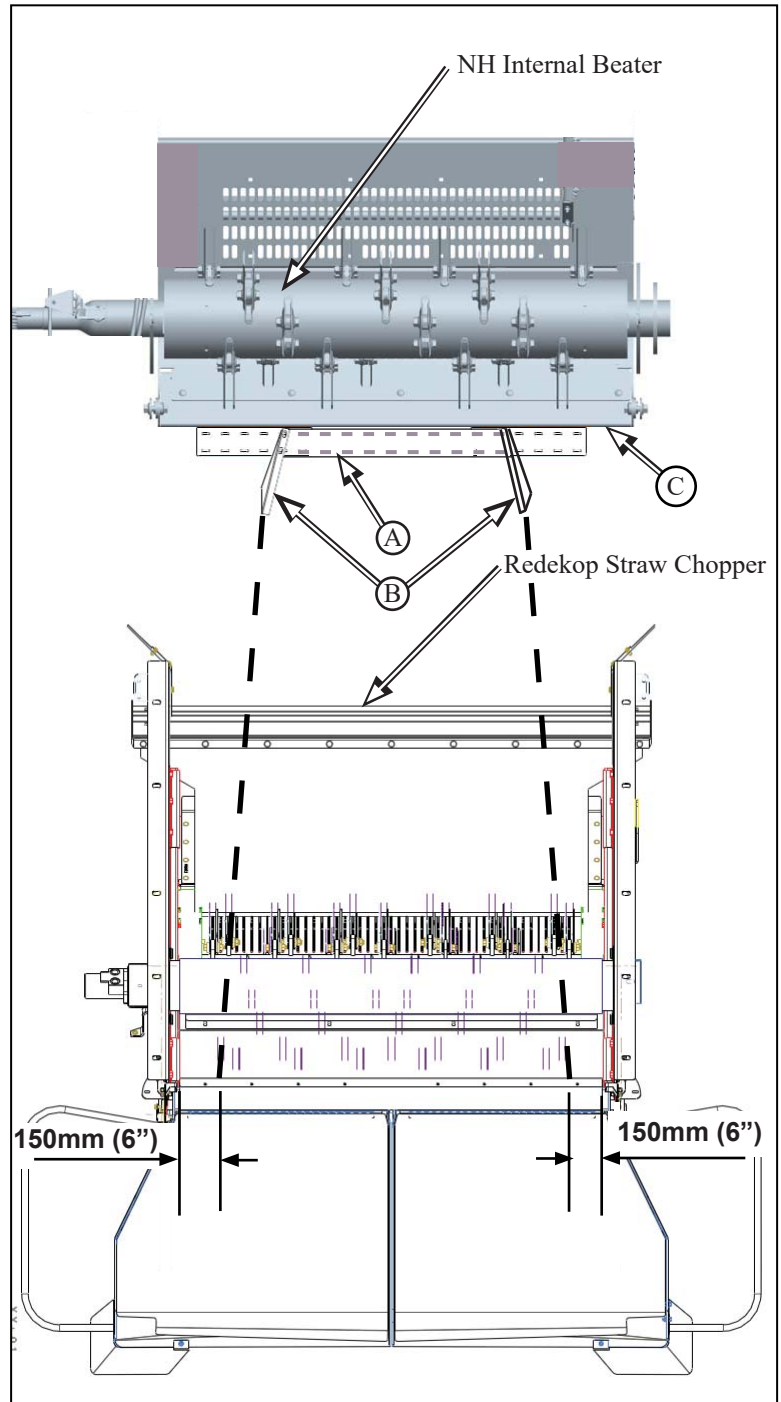
The internal deflectors (**B**) are used to adjust and distribute straw evenly into the Redekop Straw Chopper.

4.1.6 Adjust angle of deflector fins (**B**) starting with deflectors set as shown:

- position left and right deflector fins (**B**) aimed 150mm (6") inwards from left and right rear of chopper

This is the typical layout for most applications. Adjust angle, spacing of deflector to obtain even distribution.

Check distribution by windrowing. If the swath is even, the distribution into the straw chopper will be even.



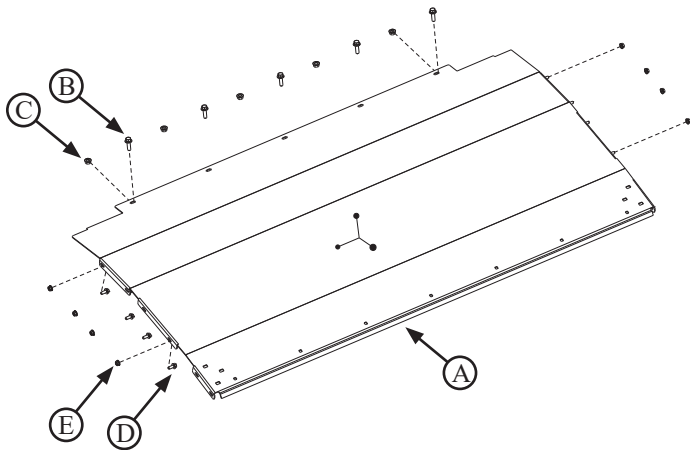
NOTE:

Residue must be evenly distributed across the width of the chopper.

Each user may be required to adjust the angle of fins or fin type due to different crop conditions or combine performance.

5 Installation of Redekop Straw Door Deluxe (P)

5.1 Attach the top panel (A) in place of the factory straw door.



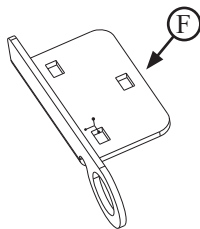
To mount the top of the panel (A) use:

- 5 pcs. - Bolt Flange M10 x 35 (B)
- 5 pcs. - Nut, Flange M10 (C)

To mount sides of panel use:

- 8 pcs. - Bolt Flange M8 x 20 (D)
- 8 pcs. - Nut, Flange M8 (E)

5.2 Install bracket (F) to the the bottom sides of panel (A):



For mounting brackets use:

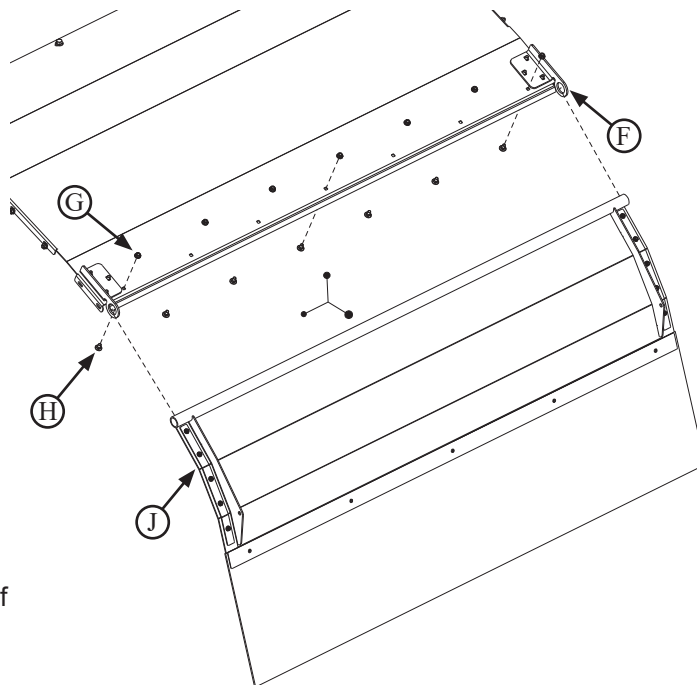
- 6 pcs. - Bolt, round head M8 x 16 (G)
- 6 pcs. - Nut, Flange M8 (H)



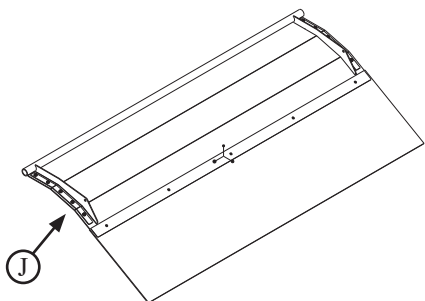
5.3 Secure the lower part of the panel (**A**) by using:

7 pcs. - Bolt, round head M8 x 16 (**G**)

7 pcs. - Nut, Flange M8 (**H**)



5.4 Mount straw door (**J**), sliding the upper pipe in the loops of brackets (**F**).



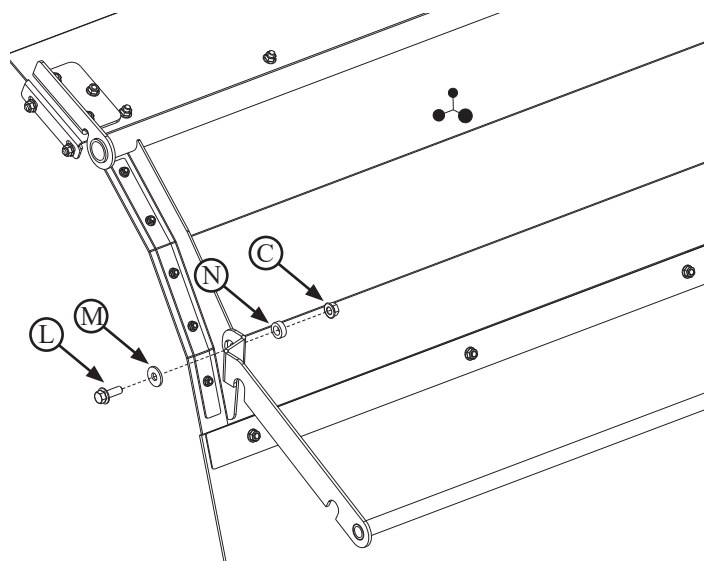
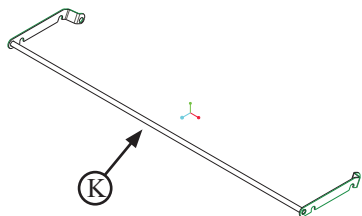
5.5 Attach straw door handle (**K**) to the straw door by using:

2 pcs. - Bolt Flange M10 x 30 (**L**)

2 pcs. - Washer M10 (**M**)

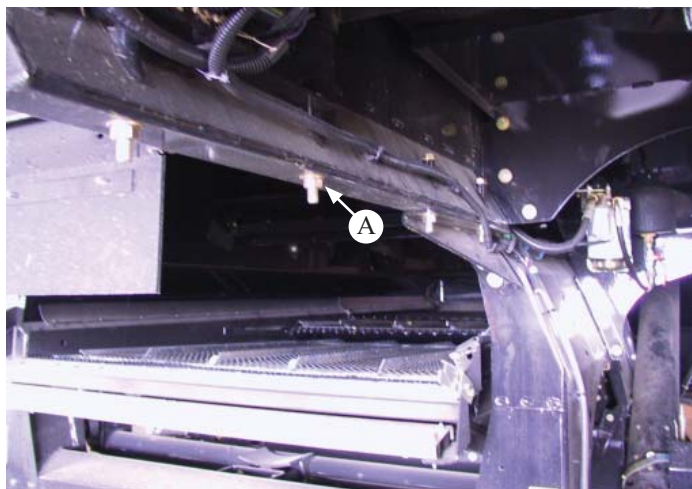
2 pcs. - Spacer CH140-01 (**N**)

2 pcs. - Nut, Flange M10 (**C**)

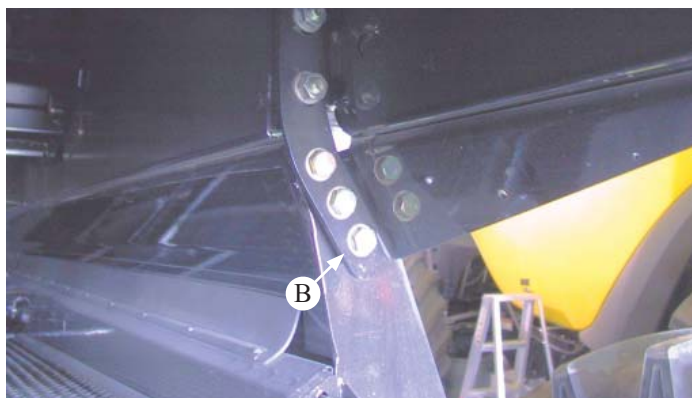


6 Straw Chopper Installation

5.1 Remove 4 hood bolts (A) on both sides of combine.



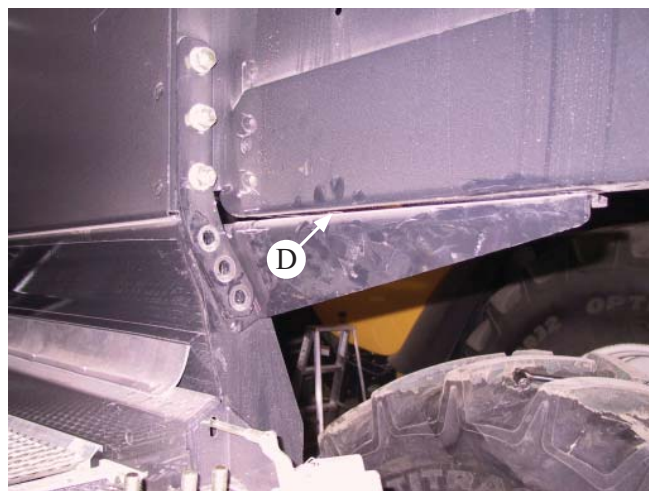
6.2 Remove 3 gusset bolts (B) on both sides of combine.



6.3 Remove 2 drive jackshaft weldment bolts (C).



6.4 Spread hood gusset a minimum of 0.25" apart (**D**). Chopper flange must slide between plates for mounting.

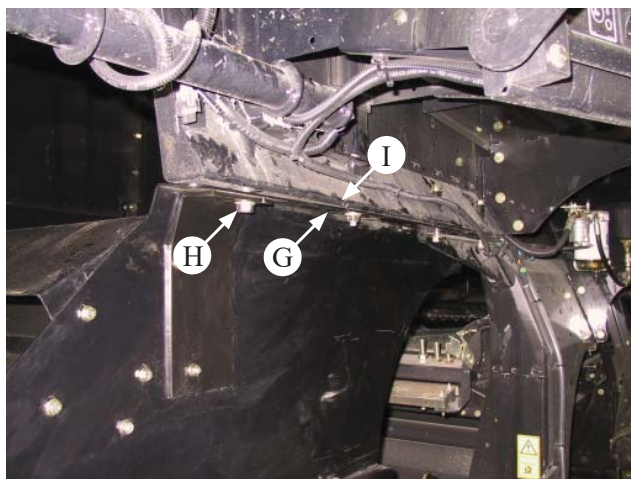


6.5 Place a second pallet under the MAV bundle and turn 90 degrees (**E**). Remove tailboard shipping brackets and rest tailboard against the loader to ensure it does not strike the combine during mounting. Raise chopper to the combine using a fork lift or front end loader (**F**) from the back.



6.6 Slide upper chopper flange (**G**) along combine hood flange (**H**). Align hood flange holes with chopper flange slots and replace hood bolts (**I**) by using existing combine bolts:

8 pcs. - Bolts (**I**)
8 pcs. - Nuts
8 pcs. - Flat Washers.



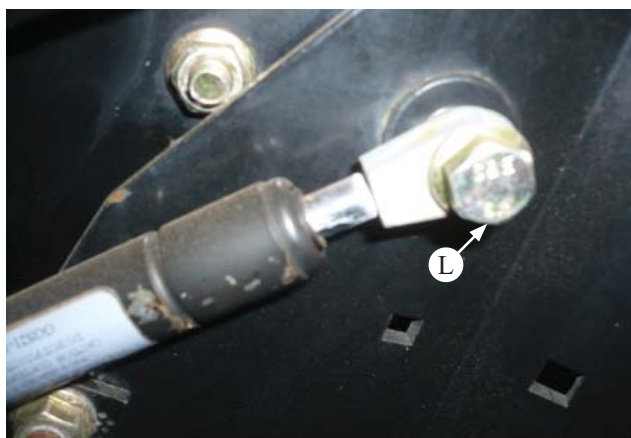
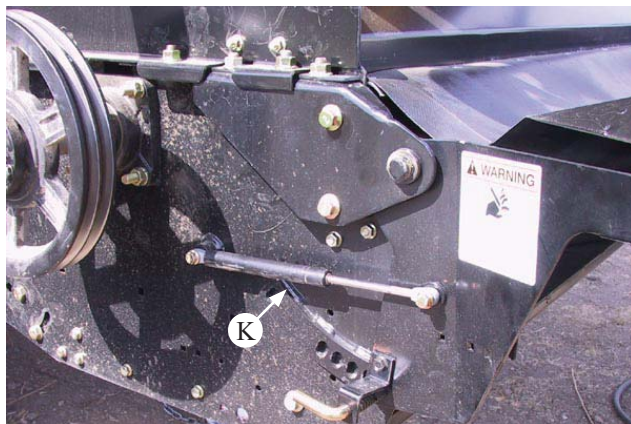
6.7 Replace bolts (**J**) in hood gusset and torque to specification. After gussets have been tightened retorque hood bolts and jackshaft bolts by using:

6 pcs. - Bolts (**J**)
6 pcs.- Flat Washers

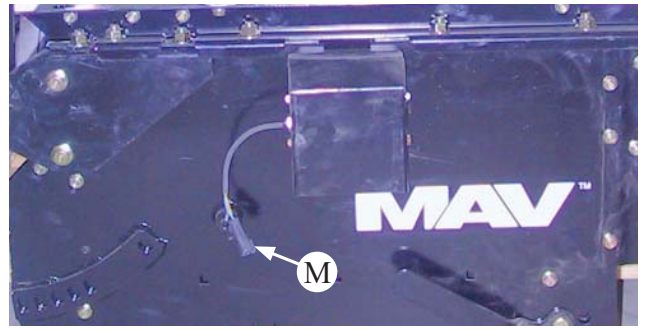


6.8 Mount gas shocks (**K**) by using:

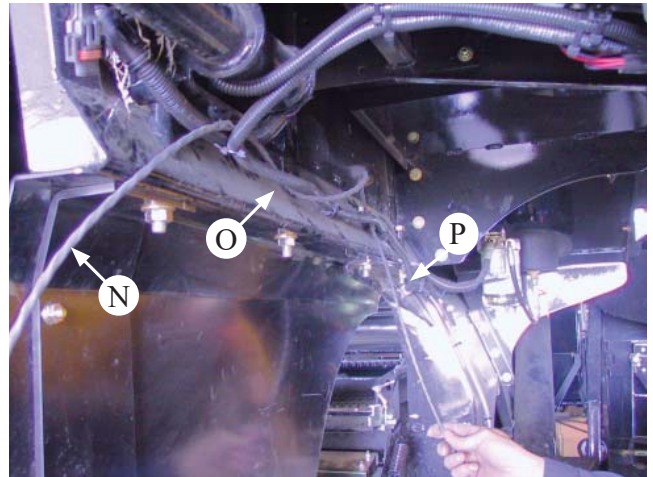
2 pcs. - Shock, Gas
4 pcs. - Bolt, Flg M8 x 16 (**L**)



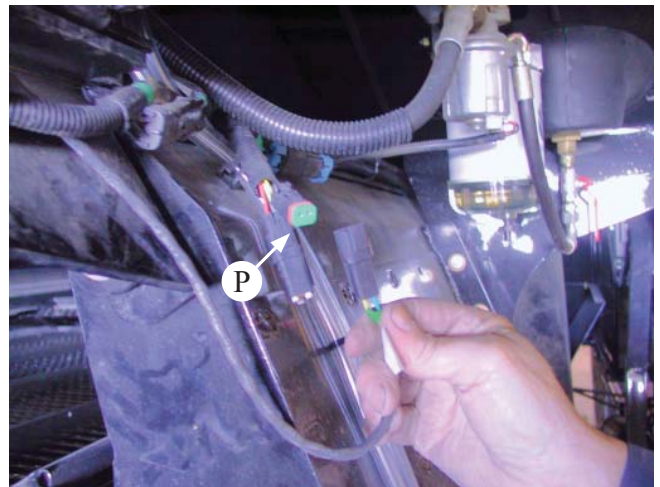
6.9 Plug the chopper speed sensor outlet (**M**) into the sensor wire extension provided in your kit.



6.10 Route sensor wire extension (**N**) with main harnesses (**O**).



6.11 Remove plug from main wiring harness and connect speed sensor wire extension (**P**).



6.12 Attach individual flood lights (**Q**) to both sides of the chopper. Use an existing bolt on the chopper flange.



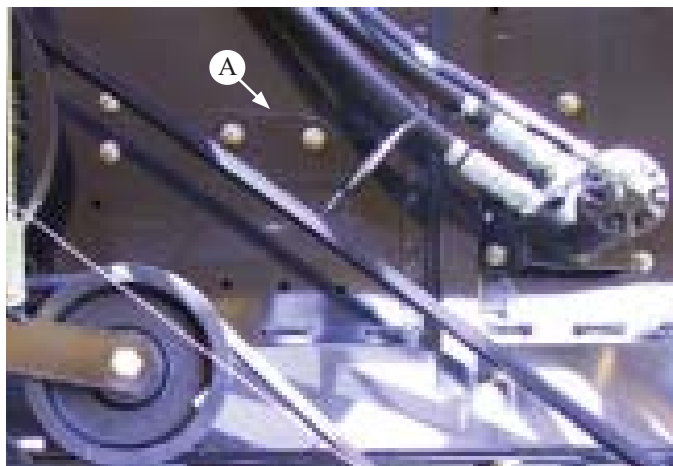
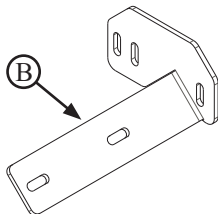
Note: Newer model CR combines come with rear floor lights attached to the combine frame above the chopper. They do not need to be relocated.

7 Assembly of 2B Drive:

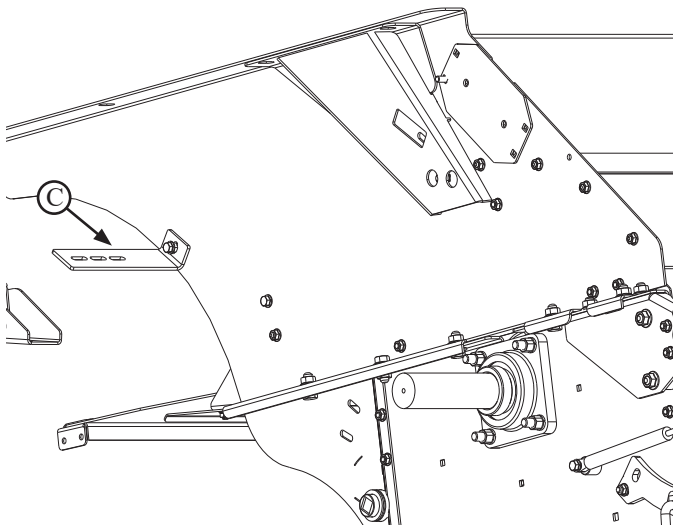
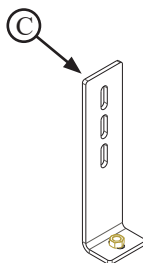
7.1 Replace Factory Bracket (A) with redekop shield bracket (B), with:

2 pcs. - Bolt, Flg M8 x 20

2 pcs. - Nut, Flg M8



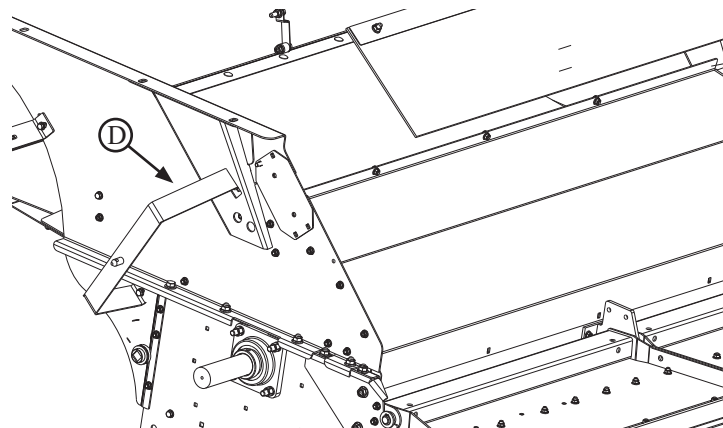
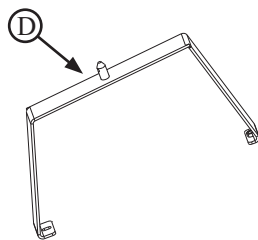
7.2 Attach chopper' bracket to sidewall (C), with:
1 pcs. - Bolt, Flg M8 x 20



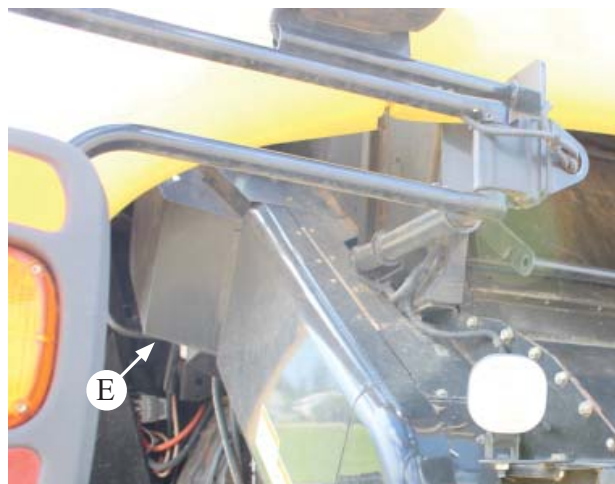
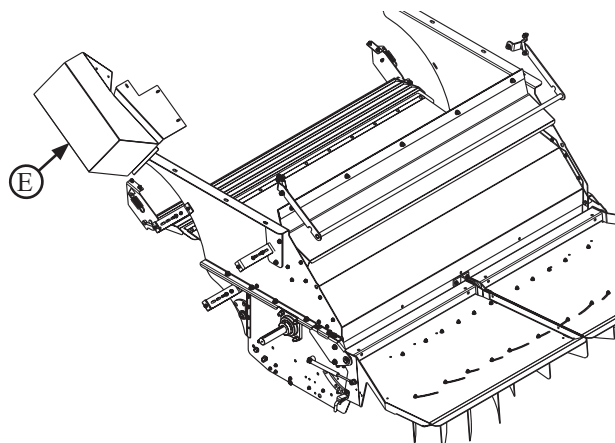
7.3 Install bracket (D) to sidewall of chopper, with:

2 pcs. - Bolt, Flg M8 x 16

1 pcs. - Nut, Flg M8



7.4 Remove factory jackshaft shield (E).

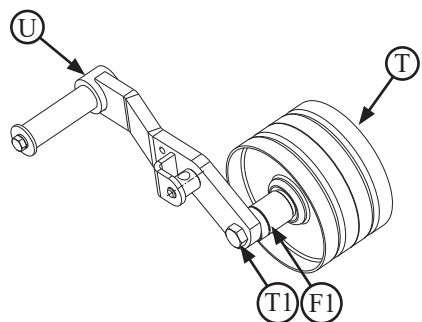


7.5 Remove existing Idler Arm Assembly (**F**) from factory jackshaft post

7.6 Remove Pulleys (**T**) and Spacers, Washers (**F1**) from existing Idler Arm Assembly (**F**)

7.7 Assemble existing Pulleys (**T**) onto new Idler Arm (**U**), with:

- reuse existing spacers, washers (**F1**) as necessary
- assemble with hardware from new Idler Arm (**T1**)

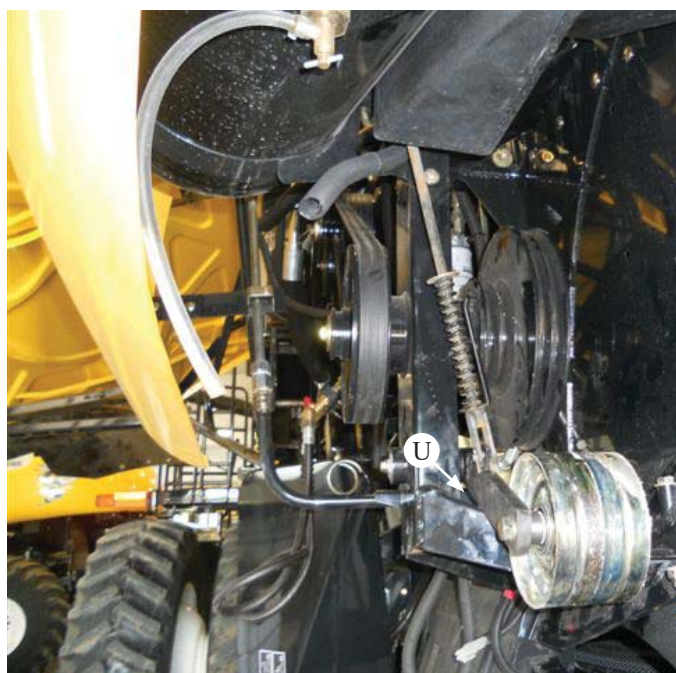
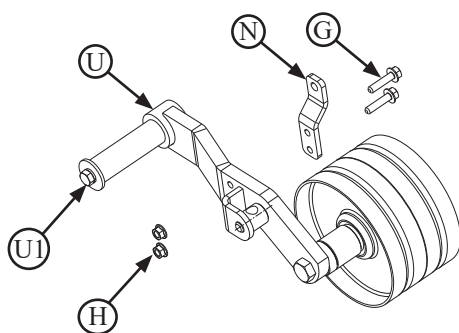


7.8 Install new Idler Arm Assembly (**U**) into factory jackshaft post using (**U1**), with:

- 1 pc. - Bolt, Hex M10 x 25
- 1 pc. - Washer, Lock M10
- 1 pc. - Washer, Flat 25.4 O.D.

Assemble Lug (**N**) for tension link, with:

- 2 pcs. - Bolts M8 x 35 (**G**)
- 2 pcs. - Nuts M8 (**H**)
- 1 pc. - Lug Tension Mount (**N**)



7.9 Assemble Idler Adjustment Handle (I) into factory jackshaft post at (J), with:

Pivot (J):

1 pc. - Bolt M10 x 35

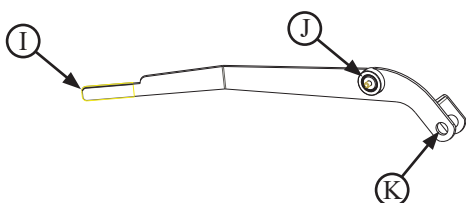
1 pc. - Washer, Flat 25.4 O.D. x 8 th

Pin (K):

1 pc. - Pin 25 dia. x 62 length

2 pc. - Washer 38 O.D. x 1.1 thick

2 pc. - Snap Ring Ext. 25



7.10 Assemble Top section (M) of Tension Link (L) into Adjustment Handle (I) thru Pin (K), with (L1):

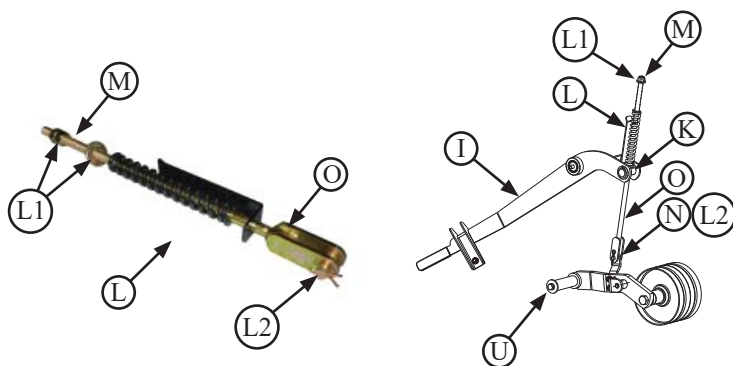
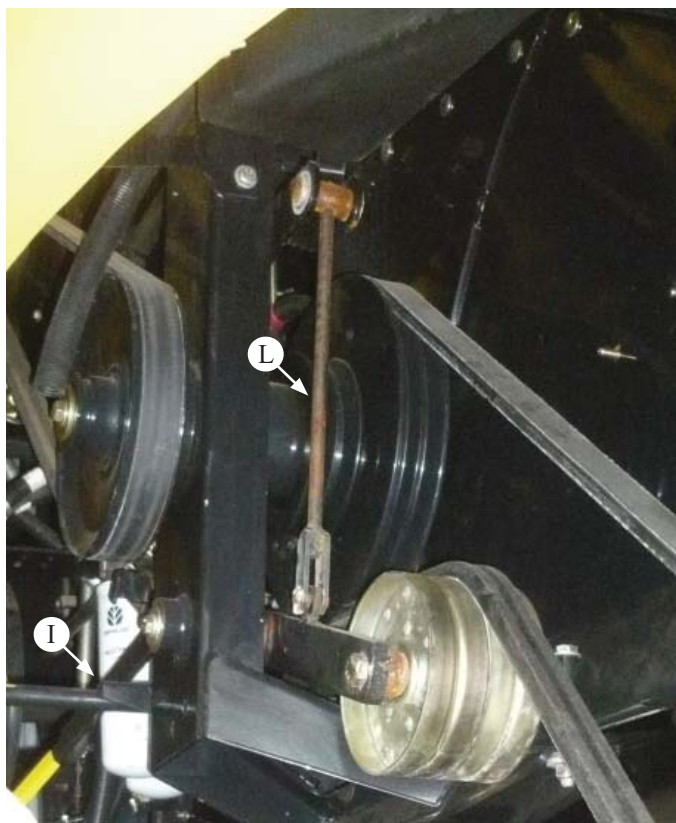
1 pc. - Washer, Flat 25.4 O.D.

1 pc. - Nut M12

7.10.1 Assemble Bottom section (O) of Tension Link (L) into Lug (N) on Idler Arm Assembly (U), with (L2):

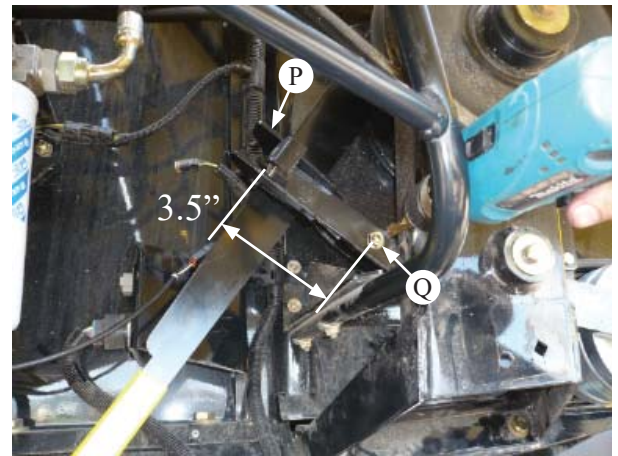
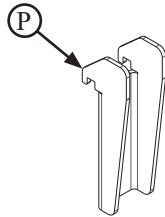
1 pc. - Pin Clevis .437 x 1.25

1 pc. - Pin Cotter



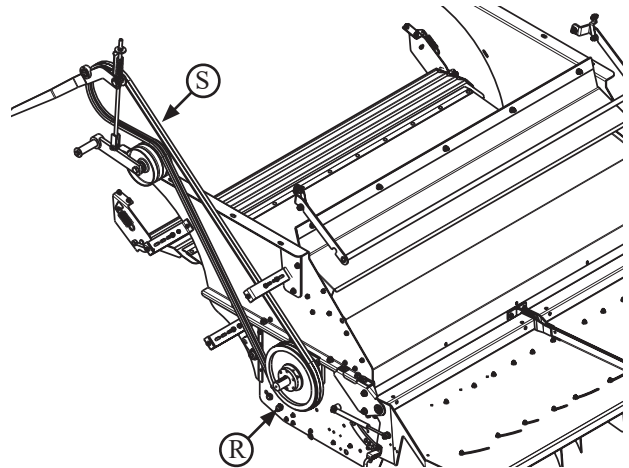
7.11 Install Redekop adjustment arm latch bracket (**P**) onto reverse side of existing bracket (**Q**). Use bracket as a template to mark location to drill hole at 3.5 inches from end of existing bracket as shown. Use:

- 1 pc. - Bolt, Rh M8 X 16
- 1 pc. - Nut, Flg M 8

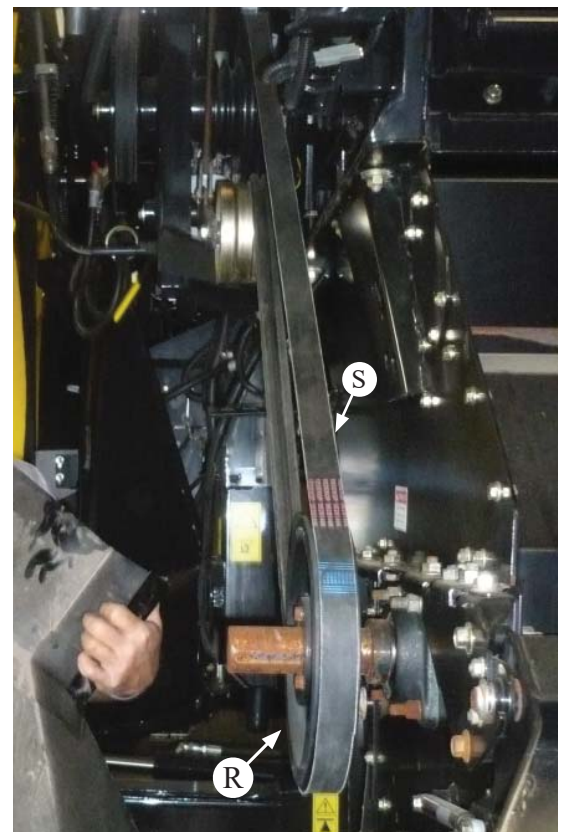


7.12 Assemble 11" chopper drive sheave (**R**) (reference Appendix 2 for Pulley Install Instructions) and 2B146 belt (**S**). Ensure sheaves are aligned for smooth belt operation. Mount sheave 4.5" from chopper sidewall on CR940-60 models and 5.5" on CR970 models. (Dimension taken from sidewall to middle of pulley)

- 1 - Belt 2B146
- 1 - Sheave SK 2B11
- 1 - Bushing SK 50 mm
- 1 - Keystock 14 mm x 9 mm



Optional 15" chopper drive pulley (SLOW SPEED DRIVE)
Contact your Redekop dealer for availability.
Order # 190-010



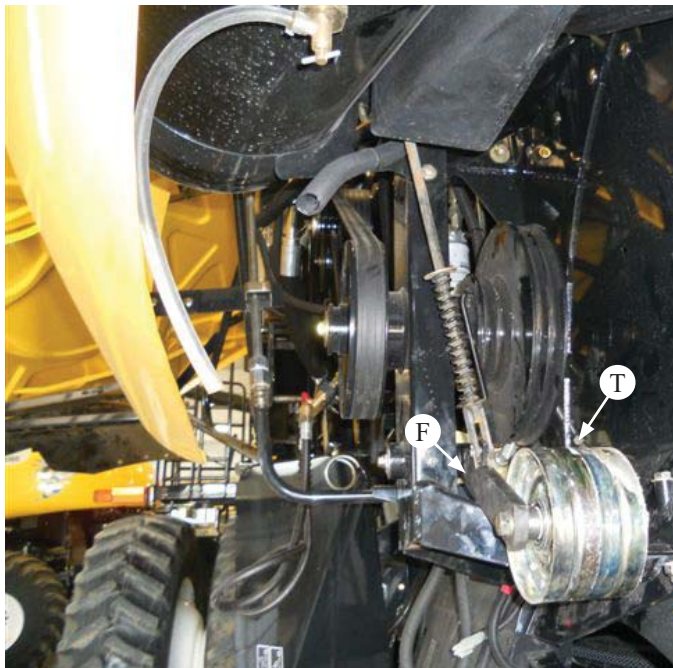
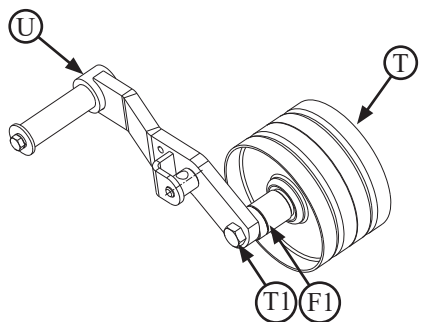
8 Assembly of 3B Drive

8.1 Remove existing Idler Arm Assembly (F) from factory jackshaft post

8.2 Remove Pulleys (T) and Spacers, Washers (F1) from existing Idler Arm Assembly (F)

8.3 Assemble existing Pulleys (T) onto new Idler Arm (U), with:

- reuse existing spacers, washers (F1) as necessary
- assemble with hardware from new Idler Arm (T1)



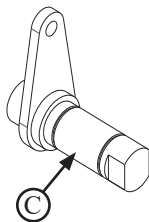
8.4 Mount Assembly Idler CR Drive (U) into factory jackshaft post using (U1):

- 1 pc. - Bolt, Hex M10 x 25
- 1 pc. - Washer, Lock M10
- 1 pc. - Washer, Flat 25.4 O.D.

8.5 Assemble tension link (B) with Overcenter Pin (C)

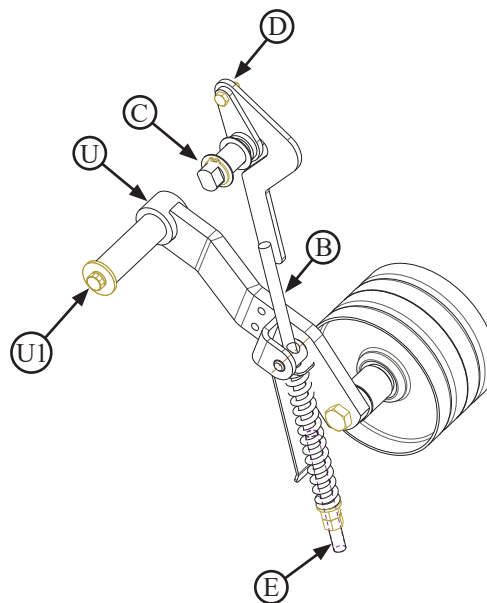
Top section (D):

- 1 pc. - Hex Bolt 8 x 25
- 1 pc. - Nut M8



Bottom section (E):

- 1 pc. - Washer, Flat 25.4 O.D.
- 2 pcs. - Nut, Lock M12



8.6 Assemble 3B 11" chopper drive sheave **(F)** (reference Appendix 2 for Pulley Install Instructions) and V belt 3B146 or 3B150 **(G)**

Ensure sheaves are aligned for smooth belt operation.

1 pc. - Sheave 3B 11.0 SK **(F)**

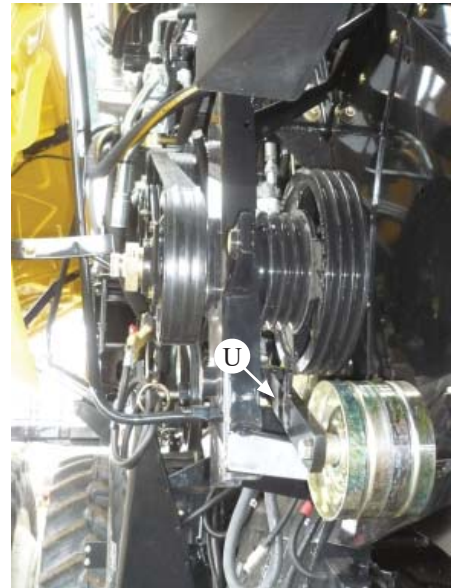
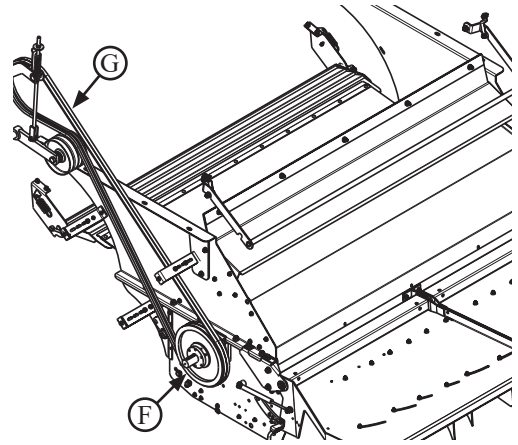
1 pc. - V Belt 3B146 **(G)**

(for older then Model Year 2018 at standard speed 2950 rpm)

or

1 pc. - V Belt 3B150 **(G)**

(for newer then Model Year 2018 at high speed 3150 rpm)

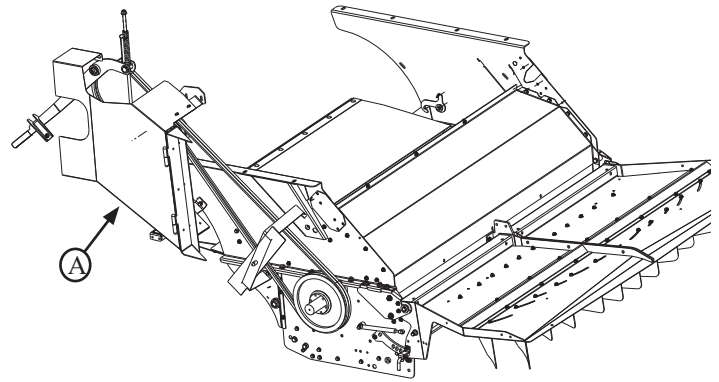


9 Shield Installation

9.1 Mount Redekop jackshaft shield (A) to jackshaft and 2 mounting brackets.

8 pcs. - Bolt, Flg M8 x 20

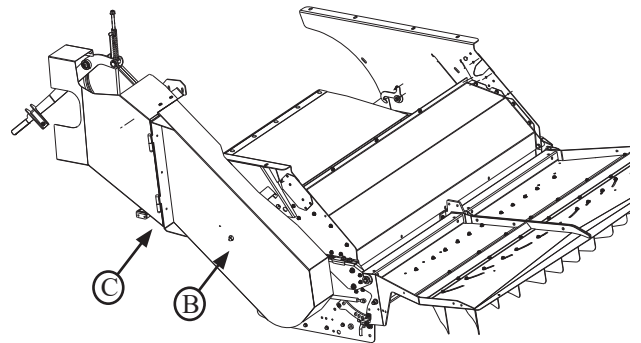
8 pcs. - Nut, Flg M8



9.2 Install lower drive shield (B). Fit rubber grommet in large hole in the center of the shield (C). Attach lynch pin chain to shield in hole beside the grommet with cotter pin.

1 - Rubber Grommet

1 - Lynch Pin W/ Chain



Note:

 Check all fasteners to ensure they have been properly tightened. When starting chopper, be sure all people are clear of the rear of the combine.

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



Appendix: 1 - Hardware Classification

B## Bolt - Imperial

HEX	Bolt Hex Head
FLG	Bolt Hex Flange Head
RH	Bolt Round Head, Carriage
CS	Bolt Countersunk

N## Nut - Imperial

JAM	Nut, Jam
LOCK	Nut, Lock

P## Pin - Imperial

ROLL	Pin, Roll
COT	Pin, Cotter
HITCH	Pin, Hitch Clip
LYNCH	Pin, Lynch
CLEVIS	Pin, Clevis
SPIROL	Pin, Spirol

W## Washer - Imperial

FLAT	Flat
LOCK	Helical Lock
FEN	Fender Washer

Description: BOLT HEX .5 X 1 GR5 UNC

Type = Hex ↑ ↑ Imperial Spec = GR5 UNC
Diameter = 0.5 inch ↑ Length = 1 inch

Hardware Diameter	Wrench Size
1/4in Hardware	7/16in
5/16 Hardware	1/2in
3/8 Hardware	9/16in
1/2 Hardware	3/4in
5/8 Hardware	15/16in

B##M Bolt - Metric

HEX	Bolt Hex Head
FLG	Bolt Hex Flange Head
RH	Bolt Round Head Carriage
CS	Bolt Countersunk

N##M Nut - Metric

JAM	Nut, Jam
LOCK	Nut, Lock

P##M Pin - Metric

ROLL	Pin, Roll
COT	Pin, Cotter
HITCH	Pin, Hitch Clip
LYNCH	Pin, Lynch
CLEVIS	Pin, Clevis
SPIROL	Pin, Spirol

W##M Washer - Metric

FLAT	Flat
LOCK	Helical Lock
FEN	Fender Washer

Description: BOLT HEX M8 X 40 C8.8

Type = Hex ↑ ↑ Metric Spec = C8.8
Diameter = 8mm ↑ Length = 40mm

Hardware Diameter	Wrench Size
M6 Hardware	10mm
M8 Hardware	13mm
M10 Hardware	15mm or 16mm
M12 Hardware	18mm or 19mm
M16 Hardware	24mm

Appendix 2 - Bushings

IMPORTANT: DO NOT USE LUBRICANTS IN THIS INSTALLATION

To Install Bushing:

1. Remove all paint, oil grease, etc. from tapered surface of bushing and bore of mating part.
2. See **Standard** mounting assembly - Figure 1.

NOTE: If bushing does not slide freely on shaft, wedge a screwdriver blade into the saw cut and the flange OD to open the bore of the bushing. Caution: Excessive wedging will split the bushing.

3. **Standard Mount** – Slide bushing on shaft, flange first. If using the setscrew, snug it against the key. **Excessive Torque will cause mating part to be eccentric.** Position mating part in place on bushing aligning drilled holes in mating part with tapped holes in bushing flange. Using lockwashers, install capscrews thru the mating hub and into the bushing flange. (**Note:** S bushings can only be Standard Mounted. Be sure the three tapped holes in the mating hub **do not** align near the bushing saw cut. If they do, rotate the bushing 60 degrees.).

4. **Use A Torque Wrench.** Tighten all capcrews evenly and progressively in rotation to the torque value listed in the table. **Excessive wrench torque, closing the gap between the bushing flange and mating hub, or the use of lubricants will break the mating hub.**

To Remove Bushing:

1. Loosen and remove all capscrews.
2. For **Standard Mount**, thread capscrews into tapped holes in mating part to jack against bushing flange. Tighten bolts evenly and progressively in rotation to separate the two components.
3. Loosen setscrew to slide bushing from shaft.

Standard Mounting

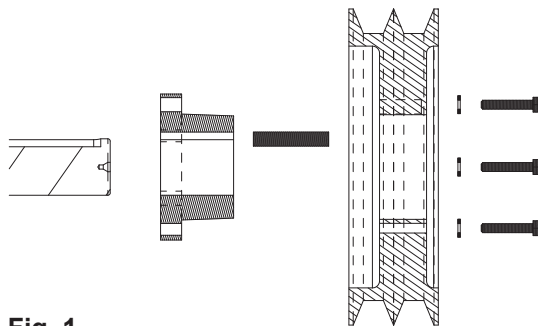


Fig. 1

Screw Tightening Information

Tapered Bushing	Size & Thread of Capscrew	Ft.-Lbs. To Apply With Torque Wrench
SK	5/16 - 18	15
SF	3/8 - 16	30

WARRANTY

Redekop Manufacturing Co., hereinafter referred to as "Manufacturer", warrants each new Redekop Upgrade sold by the Manufacturer to be free from defects in material and workmanship, under normal use and service, for a period of one (1) year after the date of delivery to the original retail purchaser. The Manufacturer will, at its option, replace or repair, at the Manufacturer's factory, or at a point designated by the Manufacturer, any part or parts which shall appear to the satisfaction of the Manufacturer upon inspection at such point, to have been defective in material or workmanship. This Warranty does not obligate the Manufacturer to bear any transportation charges in connection with the replacement of defective parts.

This Warranty shall not apply to any rotor which shall have been installed or operated in a manner not recommended by the Manufacturer; nor to any rotor which shall have been repaired, altered, neglected or used in any way which, in the Manufacturer's opinion, adversely affects its performance; nor to any rotor in which parts not manufactured or approved by the Manufacturer have been used; nor to any accessories installed on the rotor where the accessory manufacturer has its warranty; nor to normal maintenance or replacement of normal service items.

Manufacturer reserves the right to modify, alter, and improve any rotor or parts without incurring any obligation to replace any rotor or parts previously sold with such modified, altered or improved rotor or part.

THIS WARRANTY, AND THE MANUFACTURER'S OBLIGATION HEREUNDER, IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, OR OF FITNESS FOR A PARTICULAR PURPOSE, and all other obligations or liabilities, including special or consequential damages or contingent liabilities arising out of the failure of any rotor or part to operate properly. No person is authorized to give any other warranty or to assume any additional obligation on the Manufacturer's behalf unless made in writing and signed by an officer of the Manufacturer.

This Warranty is effective only for the original purchaser.

Redekop Manufacturing Co.
Saskatoon, SK Canada

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


CAUTION

Check that all tools and loose fasteners have been removed from inside of combine and chopper

Notes:

REDEKOP MANUFACTURING

1.866.REDEKOP (1.866.733.3567)

Saskatoon, Saskatchewan Canada S7K 3J7

info@redkopmfg.com

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