



John Deere
9000s Walker MAV - 341
Rotor & Chopper Housing Installation Guide

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.

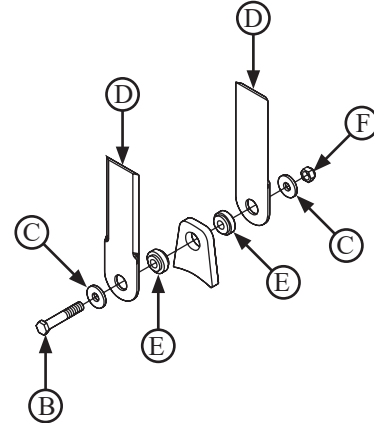
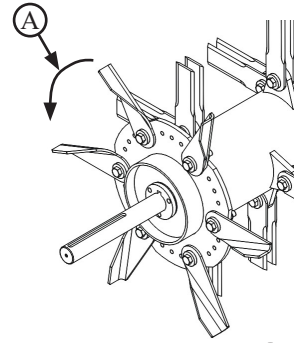
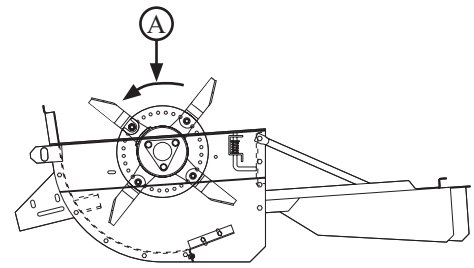
5) Always check for adequate clearance between the installed blades and the stationary knives. A minimum of 1/4" is required. Check clearance of all blades, even those that are not replaced. Do not operate the straw chopper unless this clearance is maintained for all blades.

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



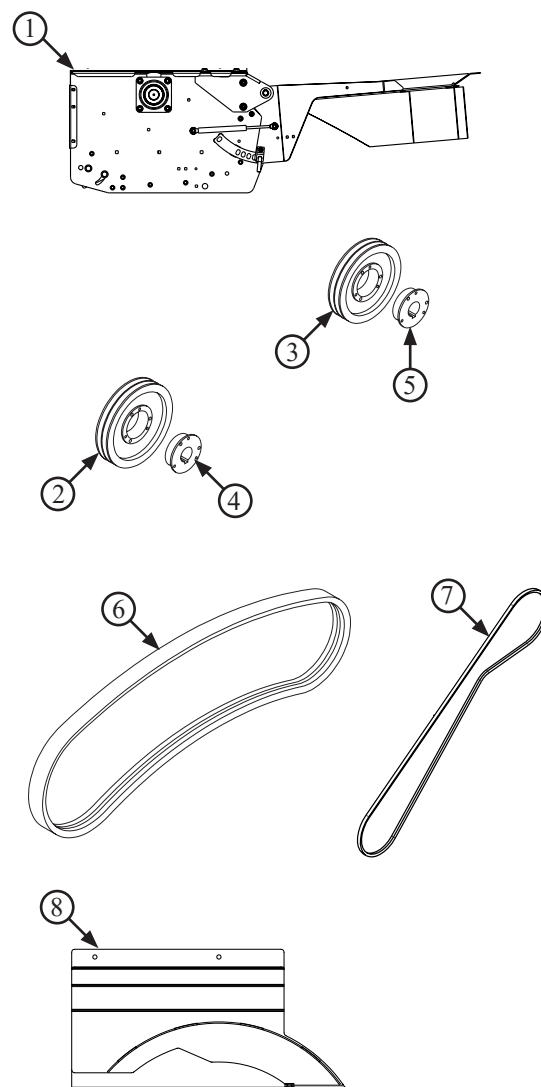
CAUTION: Always use METRIC class 10.9 bolts and class 10.9 DIN980V steel lock nuts when installing blades. Allowable torque range for blade mount nuts is 69 ft-lb.

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.

KIT CONTENTS

REF	ITEM NAME	ITEM DESCRIPTION	QTY
1	CHOPPER	CHOPPER ASSY	1
9500/10, 9600/10			
2	SHEAVE	SHEAVE 2B 9.4pd SK	1
3	SHEAVE	SHEAVE 2B 8.6pd SK	1
5	BUSHING	BUSHING SK 1.375ID	2
6	V BELT	BELT 2B173	1
7	V BELT	BELT 1B122	1
9550/60, 9650/60			
2	SHEAVE	SHEAVE 2B 11.0pd SK	1
4	BUSHING	BUSHING SK 1.295ID	1
3	SHEAVE	SHEAVE 2B 9.0pd SK	1
5	BUSHING	BUSHING SK 1.375ID	1
6	V BELT	BELT 2B178	1
7	V BELT	BELT 1B129	1
8	SHROUD	SHROUD LEFT	1
8	SHROUD	SHROUD RIGHT	1
	HARDWARE BAG		1
	GAS SPRING		2



NOTE:

Drive update is for 9000 series combines only.

The 60 series walker combines may be equipped with factory double belt drive (please call Redekop before installation)

CTS combines use existing drive parts

Tailboard fin upgrades are available to order for the JD 9000 series combine.

INSTALLATION

Remove factory straw chopper drive belt, sheave, chopper housing and rotor.

Place a second pallet under MAV bundle and turn 90 degrees (A). Remove tailboard shipping brackets and rest tailboard against loader to ensure it doesn't strike combine during mounting. Raise chopper to combine using a fork lift or front end loader (B) from the back.



Slide chopper flange onto combine flange (C). Slide chopper forward to windrowing position, drop tailboards down and install shrouds.



Shroud

For 9000 series walker combines.

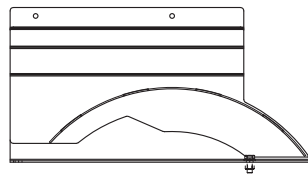
Place fan shroud (A) directly above center of rotor, on top of chopper sliding track (B). Use existing 2 holes in flange and secure with M10 bolt and nut.(C) Drill 2 holes in sidewall where needed and bolt in place.(D) Be sure fan blades (E) are not able to strike shroud. If your combine is not equipped with a track see note below.
(See Appendix 1 For Hardware Definitions)

4 - Bolt, Flg M8 x 25

4 - Bolt, Flg M10 x 25

4 - Nut, Flg M8

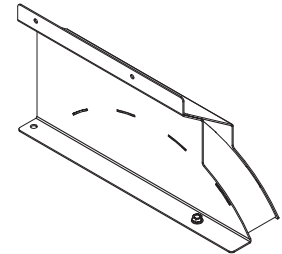
2 - Nut, Flg M10



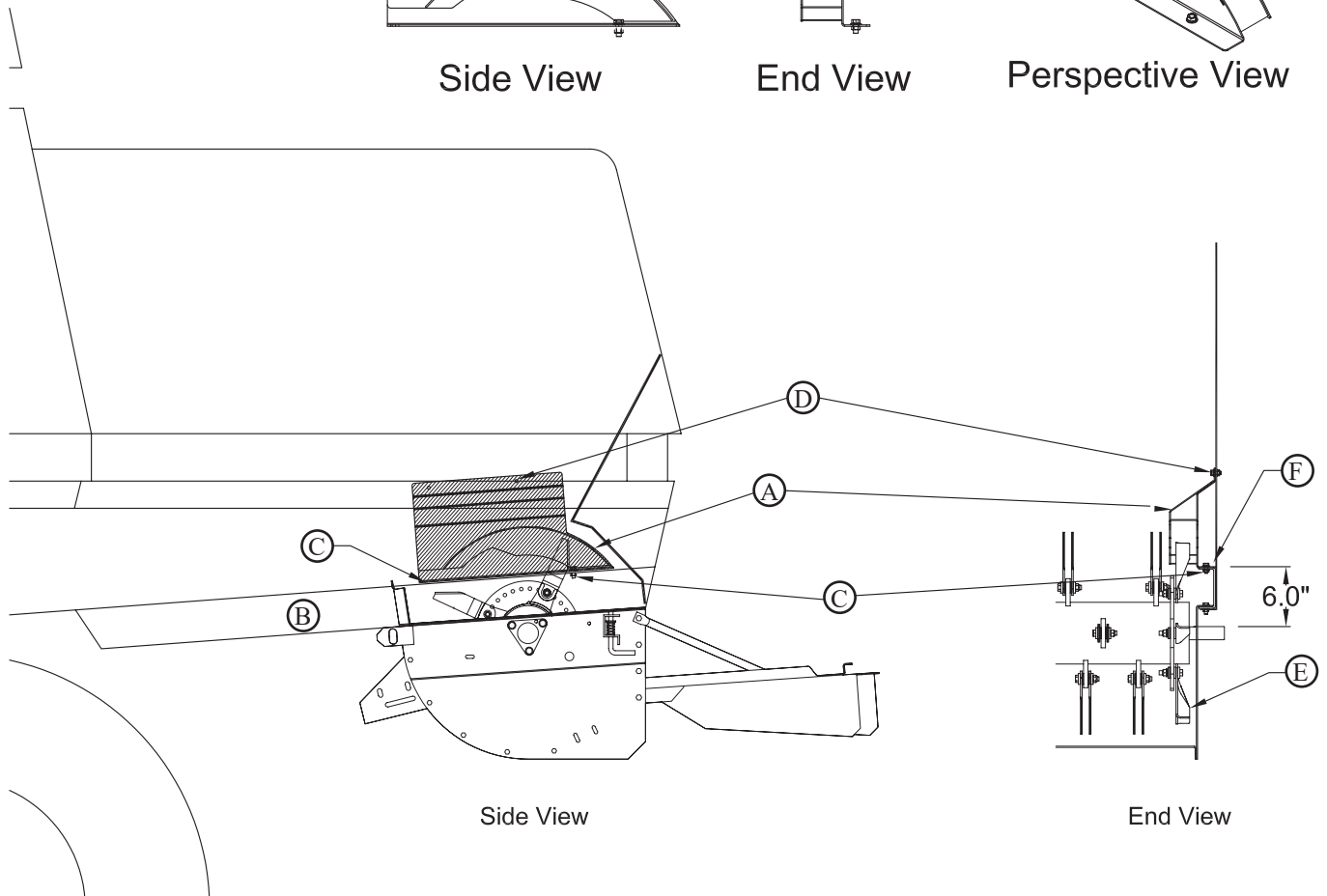
Side View



End View



Perspective View



NOTE:

If your 9500/9600 series combine does NOT have a track or flange to mount the Redekop shrouds onto install 1.5" angle iron to inside wall of combine and place shroud on top. Be sure shroud sits 6" above top of rotor shaft (F). or Contact Redekop to order mount kit - CD163K.

Reinstall rear panel (A) with existing hardware.

4 - Bolt, Flg M12 x 25

4 - Nut, Flg M12

Slide chopper to chopping position and bolt in place (B).

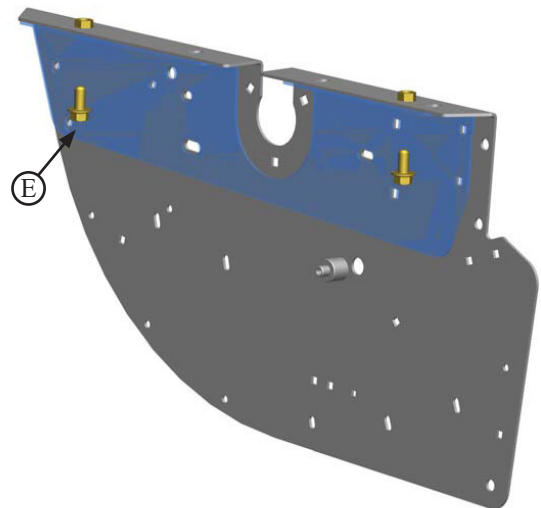
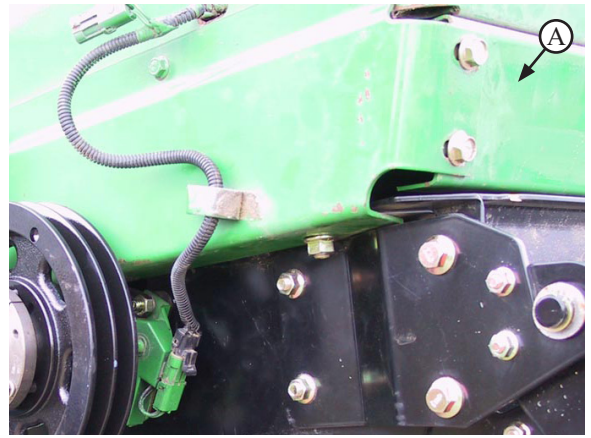
Drill out holes in chopper flange to secure front end of chopper (C) and bolt in place. **Remove this hardware to slide chopper to windrow position.**

4 - Bolt, Flg M12 x 25 (E)

Mount gas shocks (D).

2 - Shock, Gas

4 - Bolt, Flg M8 x 16



Chopper Drive

For combines equipped with factory single belt drive.

Jackshaft (B):

Remove inside sheave (A) on combine chopper drive tightener unit (A1).

Remove tightener assembly (G) in order to remove sheave. Assemble new sheave and bushing (B) and place in same location as factory sheave (A)

(See Appendix: 2 For Pulley Install)

1 - Sheave, SK 2B9.4 9500/10, 9600/10

1 - Bushing, SK 1.375 9500/10, 9600/10

1 - Sheave, SK 2B11.0 9550/60, 9650/60

1 - Bushing, SK 1.295 9550/60, 9650/60

Install factory speed sensor collar (C) over lock collar on chopper shaft and mount speed sensor pickup (D) using rotor bearing bolts. Plug in wiring to pickup.

Straw Chopper Rotor Shaft:

Install sheave and bushing (E) on straw chopper shaft.

Do NOT tighten bushing at this time.

1 - Sheave, SK 2B8.6 9500/10, 9600/10

1 - Sheave, SK 2B9.0 9550/60, 9650/60

1 - Bushing, SK 1.375

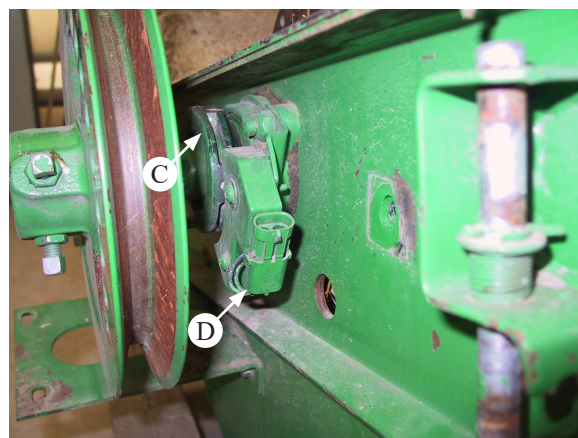
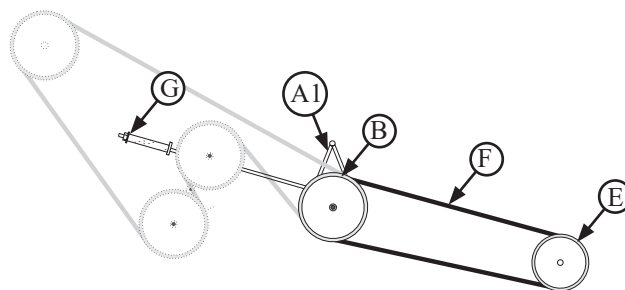
Install V belt (F).

Align sheaves for smooth belt operation and tighten bushings.

1 - V Belt, 2B173 9500/10, 9600/10

1 - V Belt, 2B178 9550/60, 9650/60

Adjust belt tension using spring tightener unit (G) on factory chopper drive. Adjust according to instructions provided in combine operators manual.



9500/9510, 9600/9610

Note:

V Belt 1B122 is included in your Redekop kit and will be required to drive the straw chopper when chopper is moved forward to the windrow position.

9550/9560, 9650/9660

Note:

V Belt 1B129 is included in your Redekop kit and will be required to drive the straw chopper when chopper is moved forward to the windrow position.

Remove factory chopper crank assembly (A) and mount to front of chopper. Mount using existing hole and hardware on front flange of chopper (B) and existing hole at (C).

4 - Bolt, Flg M8 x 25

4 - Nut, Flg M8

Remove drive shield bracket (D) from factory chopper. Position bracket (D) and shield (E) back in place and mark holes in chopper sidewall for drilling. Drill holes and bolt shield brkt to chopper sidewall (F). Use factory hardware.

Apply decals to shield (E) as shown

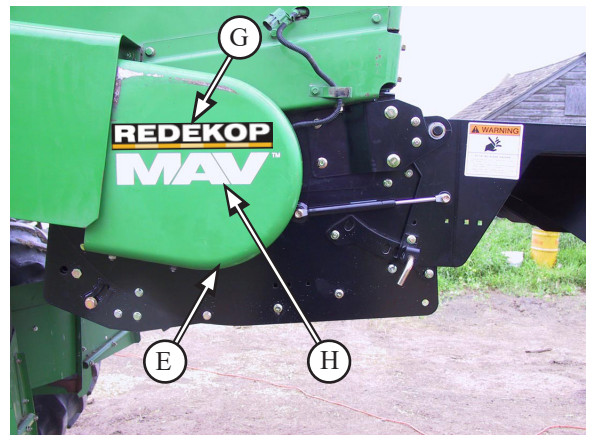
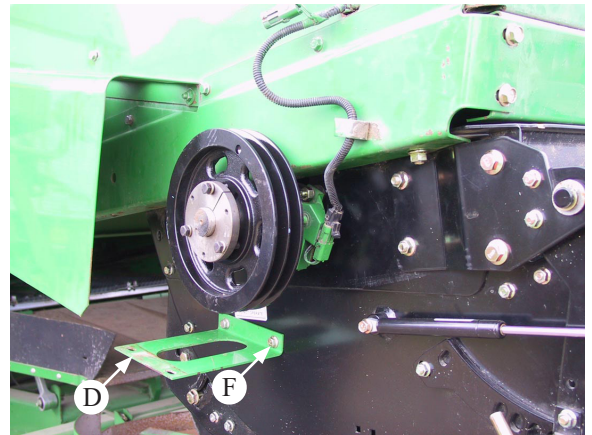
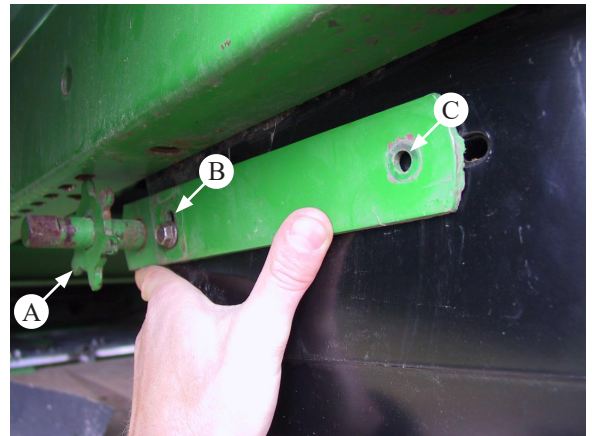
- REDEKOP (G)

- MAV (H)

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 - Taper Hub Installation

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 lock washers, install capscrows 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 capscrows.
2. For **Standard Mount**, thread capscrows 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

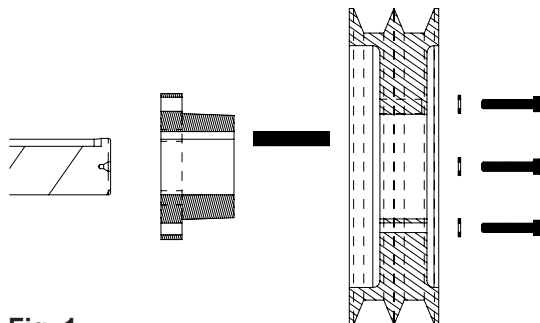


Fig. 1

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