

REDEKOP™

MAV STRAW CHOPPER NH CR

REMOVAL GUIDE FOR INSTALLATION OF MAV CHOPPER

PRODUCT NUMBER: **101-003W**

CH0214-01_R2



NH CR

Factory Component Removal Guide for Installation of Redekop MAV Straw Chopper

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NH CR

Factory Component Removal Guide for Installation of Redekop MAV Straw Chopper

Component Reference

1. Left Rear Access Panel
2. Drive Shield
3. Wire Harness
4. Fuel Tank
5. Drive Belt
6. Rear Upper Roof Panel
7. Chopper
8. Spreader
9. Draper/Conveyor
10. Jackshaft
11. Upper Drive Sheave
12. Seed Loss Monitor Panel



Supplies required to assist during the removal procedure:

Requirements:

Blocking

- 10 x 8 x 43 inches / 250 x 200 x 1100 mm
- required for section 0.13.2



Gear Puller

- required for section 2.4



Locking Mechanism

- required for section 3



Pallet

- 40 x 70 inches / 1000 x 1800 mm
- required for section 4.3



0 Safety

0.1 Instructions

0.1.1 IMPORTANT: Read through this instruction manual 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 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 straw chopper or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



0.3 Understand Signal Words

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

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



0.4 Follow Safety Instructions

0.4.1 Carefully read all safety messages in this manual and on your machine. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new 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 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 the machine's life.

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



0.5 Safe Operating Practices

0.5.1 DO NOT stand near combine when machine is running.

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

Operate 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 a horn as a warning immediately before moving away.

When making turns, always take into consideration the width of the attachment and the fact that the rear end of the machine swings out. Attachments and ground conditions affect the driving characteristics of the combine.

Never leave combine unattended as long as engine is running.



0.6 Work In Ventilated Area

0.6.1 Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

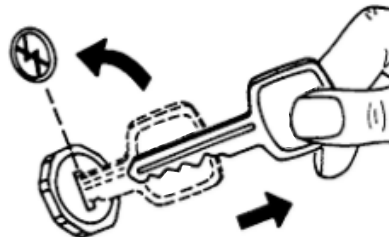


0.7 Remove Key from Ignition

0.7.1 ALWAYS shut off combine engine prior to working on it.

Apply park brake, remove key and lock operators cab.

If the combine is equipped with an additional safety master power switch, turn this to the Power OFF position.



0.8 Block Wheels

0.8.1 Park the combine on level ground.

Always engage the park brake and block the combine wheels prior to working to prevent the combine from moving.



0.9 Practice Safe Maintenance

0.9.1 Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet and clothing away 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

0.11.1 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.

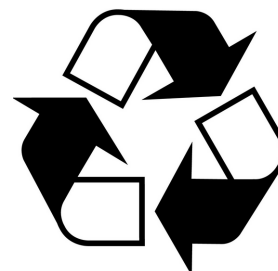


0.13 Dispose of Waste Properly

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

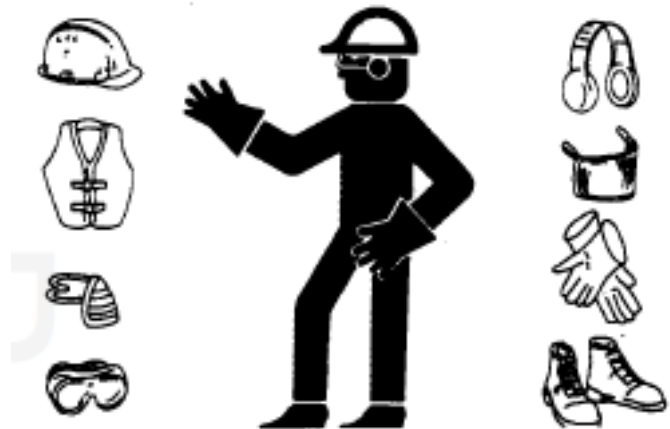


0.15 Personal Protective Equipment (PPE)

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 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.

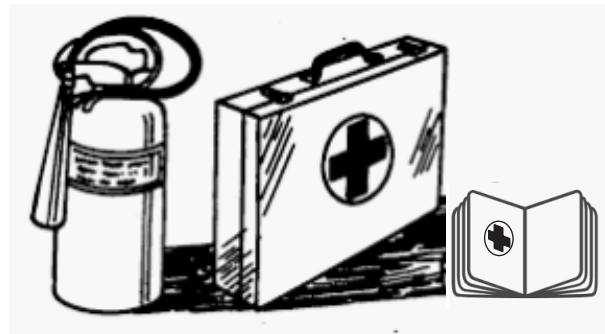


0.17 Prepare for Emergencies

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.



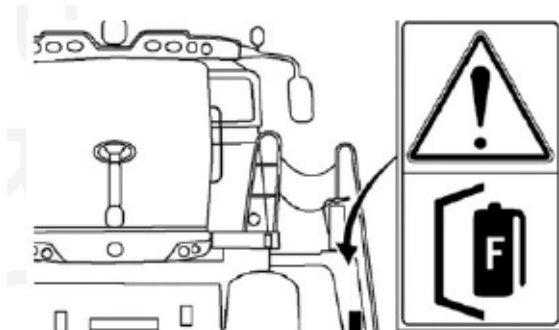
0.18 Fire Extinguisher

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, and near 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.



CAUTION: Do not risk personal injury. If a fire is too far advanced, do not try to extinguish it.

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 wind to your back.
3. Pull the safety pin out of actuating lever.
4. Hold extinguisher upright and aim hose at base of flames.
5. Squeeze lever to discharge fire extinguisher.
6. Move hose to cover the source of the fire evenly with extinguishing agent.

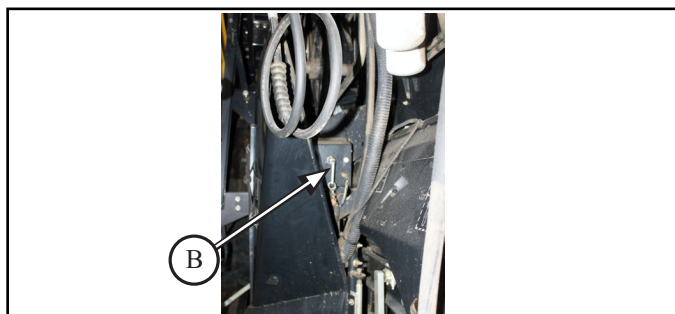


1 Drive Shield Removal

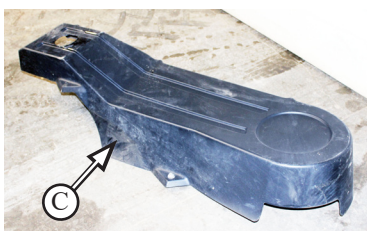
1.1 Lift up the left side access panel (A)



1.1.1 Turn Master Power Off (B)

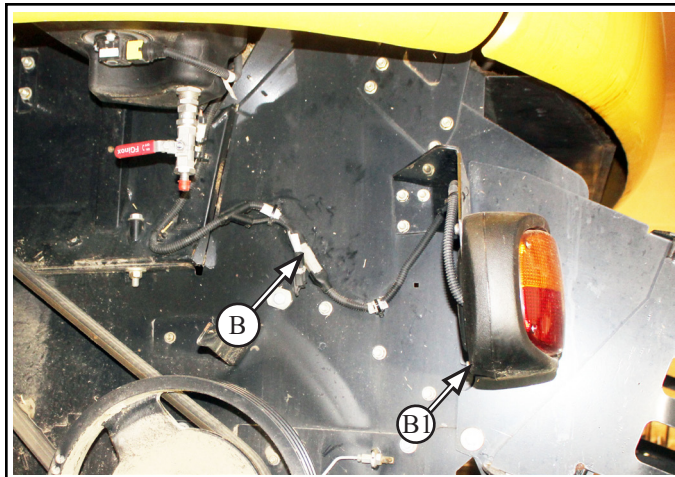


1.2 Remove drive shield (C)



2 Disconnect Wire Harnesses

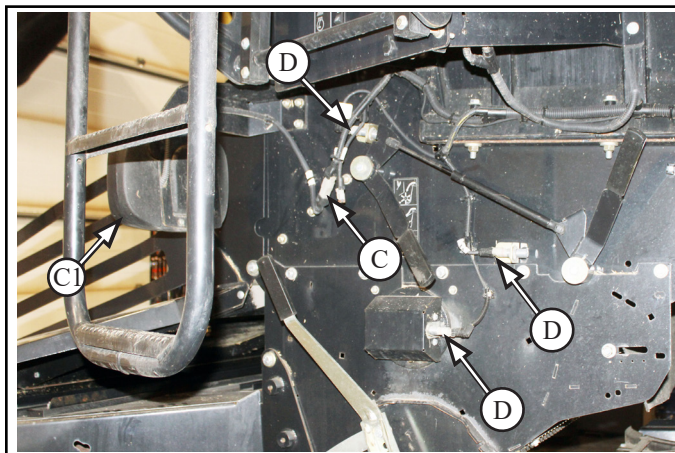
- 2.1 Disconnect wire harness (B) from left rear light (B1)
- cut nylon cable ties



- 2.2 Disconnect wire harness (C) from right rear light (C1)
- cut nylon cable ties that tie harness to chopper

- 2.3 Disconnect wire harness (D) from sensors x3
- cut nylon cable ties that tie harness to chopper

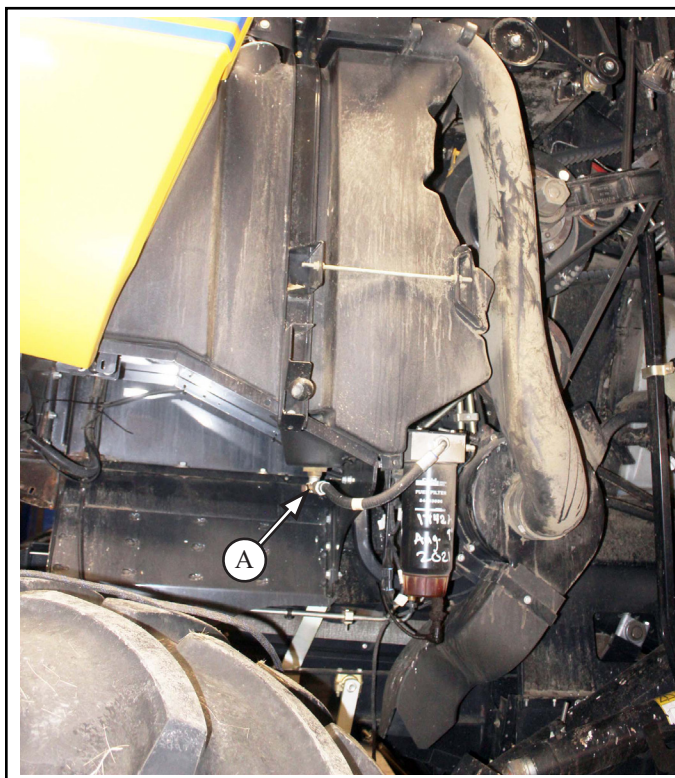
- 2.4 Tie harness up out of the way



3 Fuel Tank Support Removal



- 3.1 Drain fuel from rear fuel tank at side fuel tank valve (A) into clean container(s)
- to decrease the weight to be supported by the strapping in next steps
- fuel to be refilled into fuel tank at completion



3.2 Remove rear glamour panel (B)

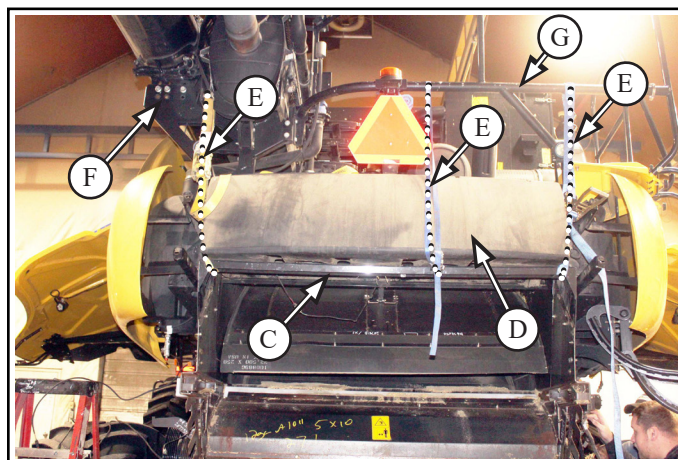


3.3 Secure rear fuel tank (D)

3.3.1 Run a ratchet strap (E) x2 around the rear fuel tank bottom support bracket (C) on each end and secure to the auger bracket (F) and handrail (G)

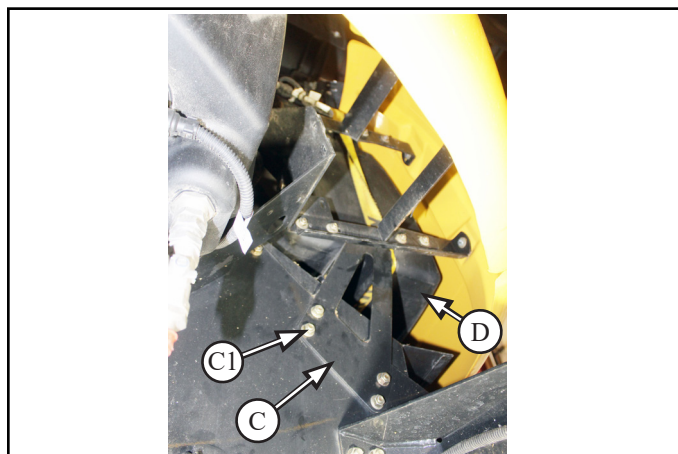
3.3.2 Secure a ratchet strap (E) to the rear fuel tank bottom support bracket (C) near the middle and secure to the handrail

3.3.2 Tighten straps (E & F)



3.2 Remove side mounting hardware (C1) x4 mounting fuel tank support (C) to chopper

- both sides
- to be reinstalled after the new chopper is installed



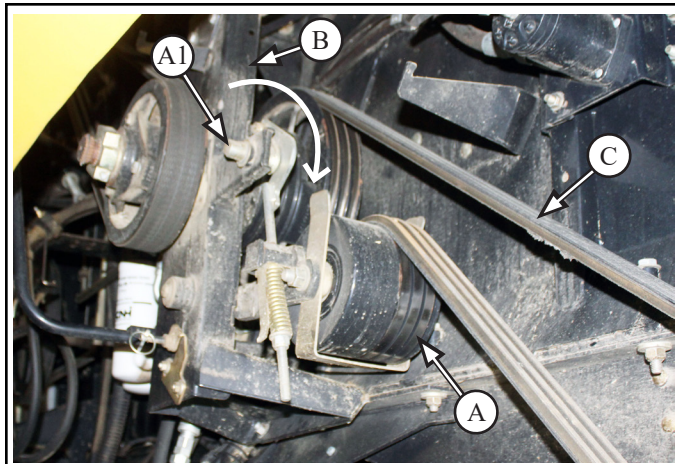
4 Drive Belt Removal

Procedure required only if SCU is being installed

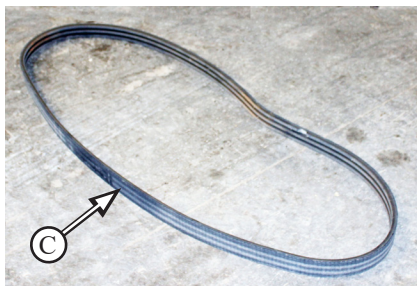
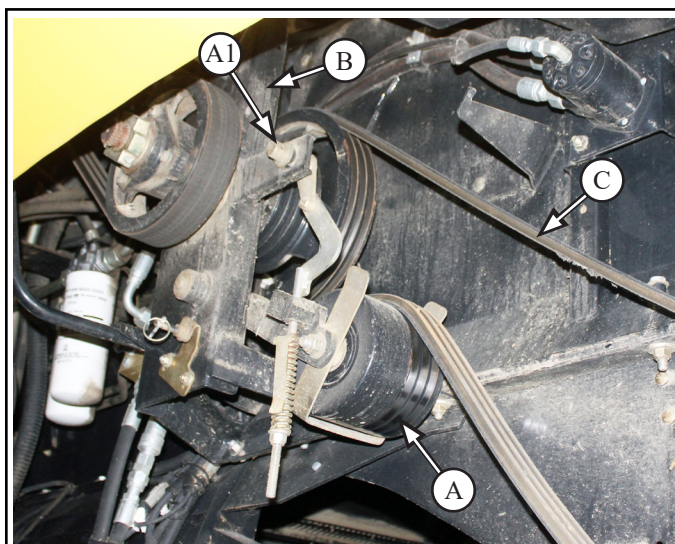
Do NOT remove drive belt if SCU is NOT being installed

4.1 Loosen belt tensioner (A) on jackshaft (B)

4.1.1 Rotate tension link pivot (A1) clockwise



4.2 Remove drive belt (C)

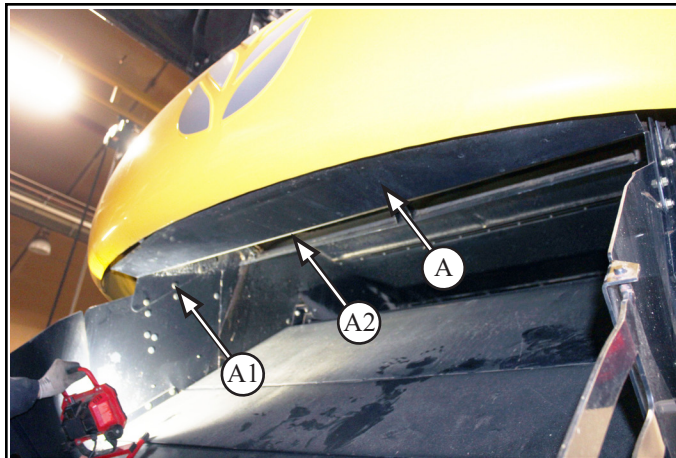


5 Rear Upper Roof Panel Removal

5.1 Remove side mounting hardware (A1) x3
- both sides

5.2 Remove top mounting hardware (A2) x5

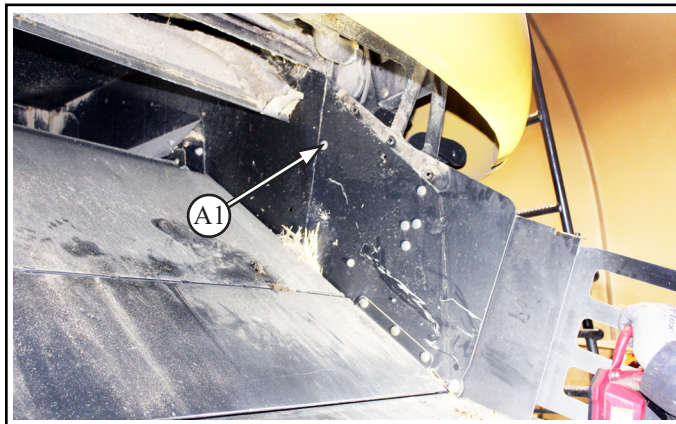
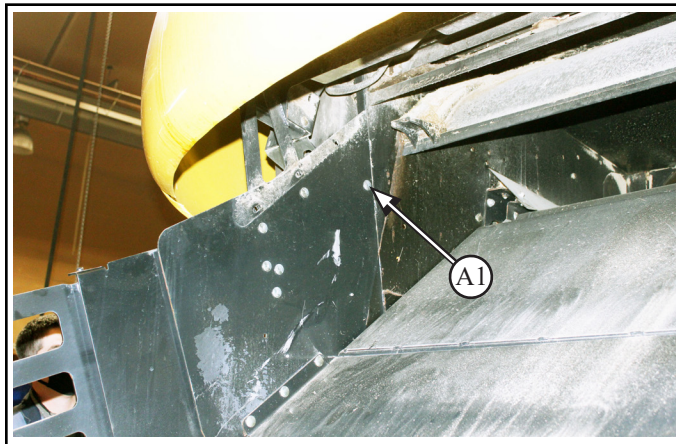
5.3 Remove rear upper roof panel (A)



6 Chopper Removal

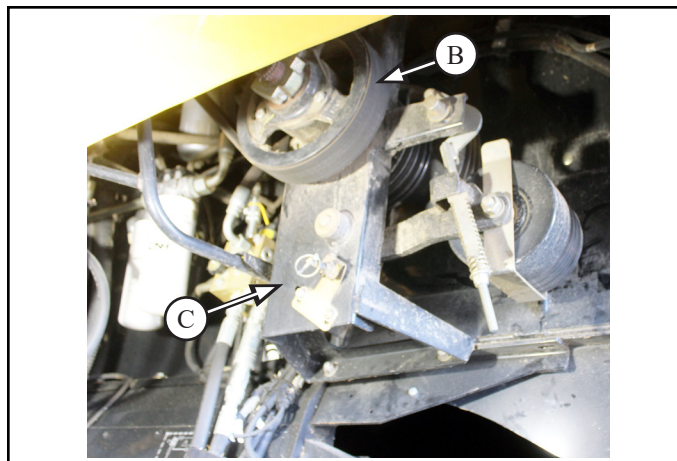
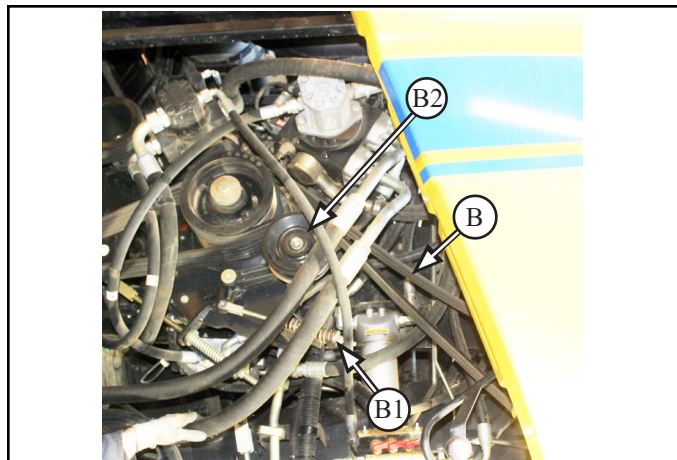


6.1 Remove top front sidewall mounting bolt (A1) x1
- both sides



6.2 Loosen belt tension rod (**B1**) for belt tensioner (**B2**) for combine drive belt (**B**) to jackshaft (**C**)

6.2.1 Remove combine drive belt (**B**) from jackshaft (**C**)



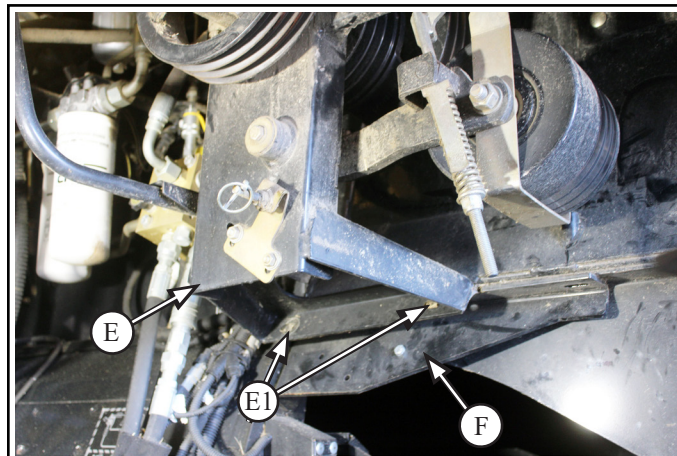
6.3 Raise a pallet (**D**) with extra blocking (**D1**) underneath the chopper (**A**) to hold the chopper in place when all supports are removed.



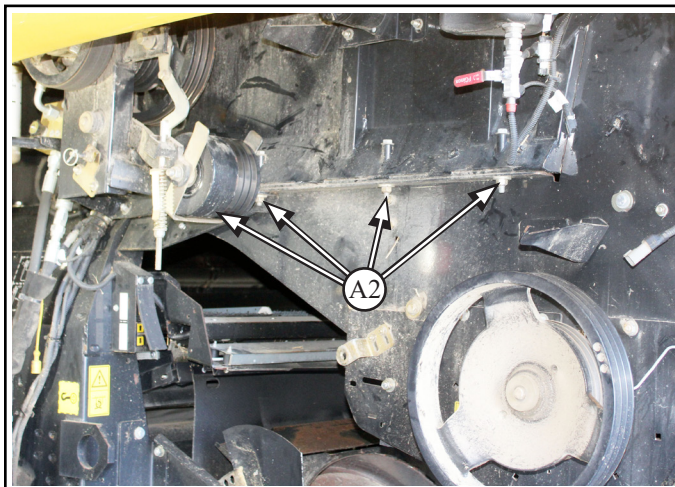
- secure rear end of chopper down, for the chopper is front heavy and will lean forward



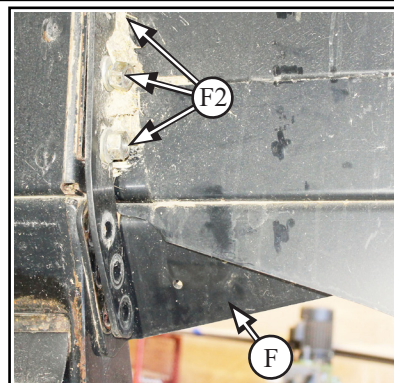
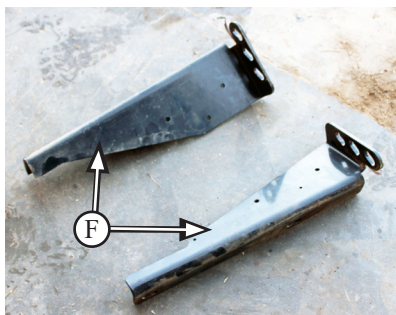
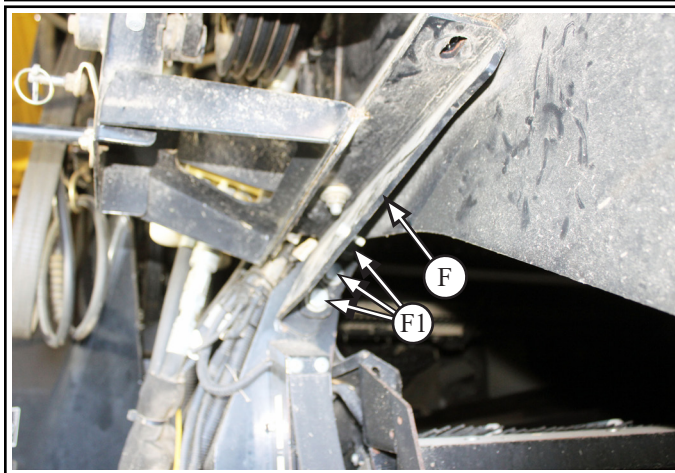
6.4 Remove bottom mounting bolts (**E1**) x2 mounting jackshaft (**E**) to support plate (**F**)



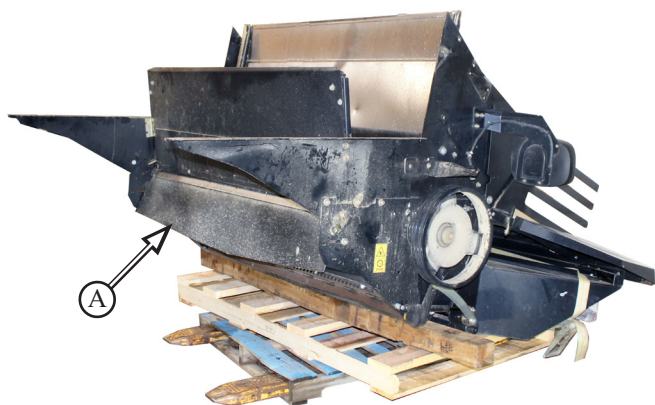
6.5 Remove chopper mounting hardware (A2) x4 from combine wall
- both sides



6.6 Remove mounting hardware (F1) x3 mounting support plate (F) to combine
- may have to loosen hardware (F2) on inside of combine
- both sides



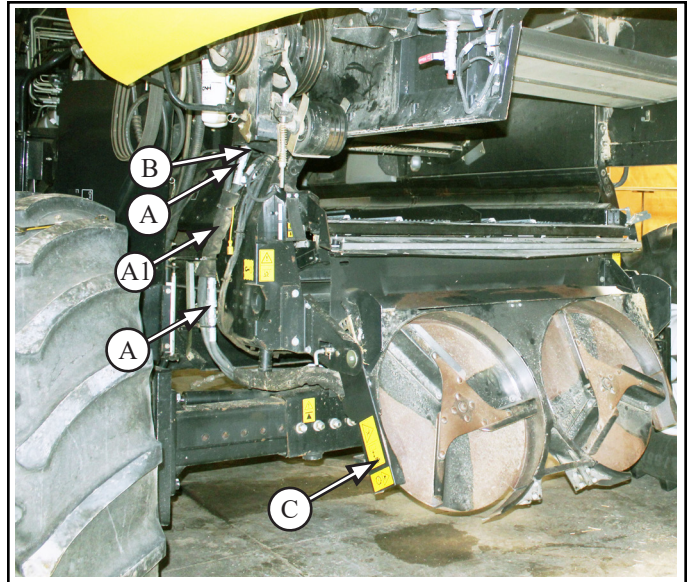
6.7 Remove chopper (A) from combine



7 Spreader Removal

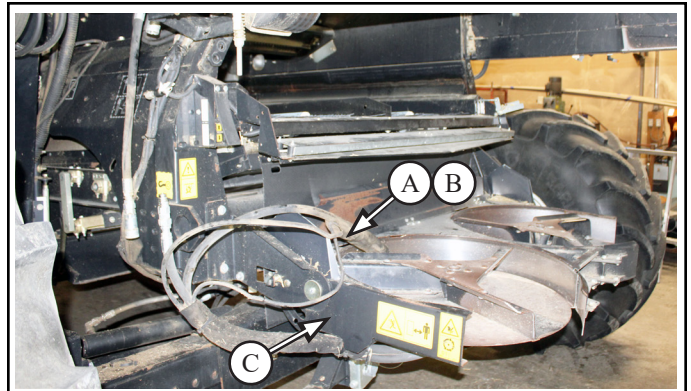
7.1 Disconnect hydraulic hoses (A) at quickcouplers running from spreader (C) to hydraulic block - slide hoses out of sleeve (A1)

7.2 Disconnect electrical connector (B)



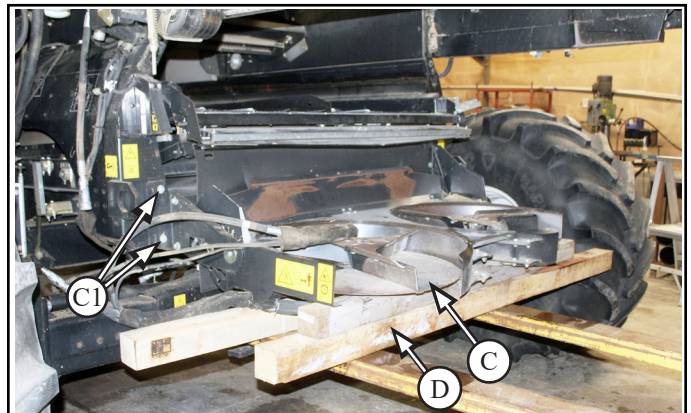
7.3 Ensure spreader (C) is horizontal

7.3.1 Lay hydraulic hoses and electrical harness on top of spreader (C)



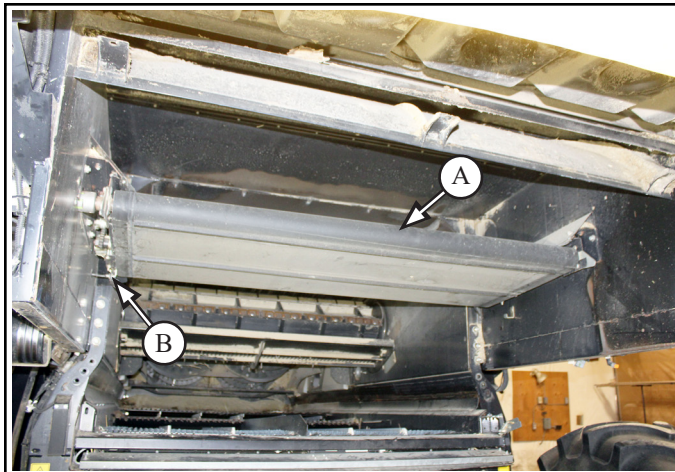
7.4 Provide blocking (D) below spreader (C) for support upon removal

7.5 Remove mounting hardware (C1) x2 mounting spreader arms to rear of combine - both sides



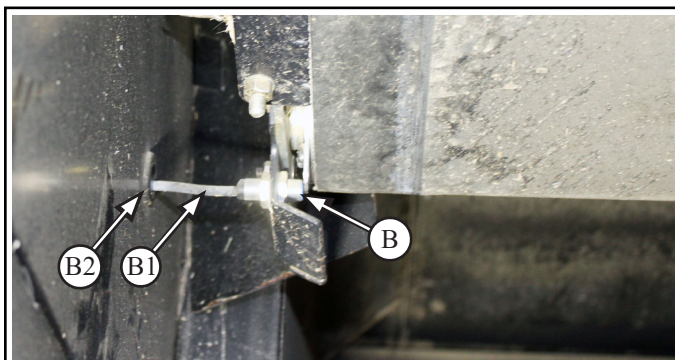
8 Draper/Conveyor Removal

8.1 Disconnect and remove sensor (**B**) for draper/conveyor (**A**)

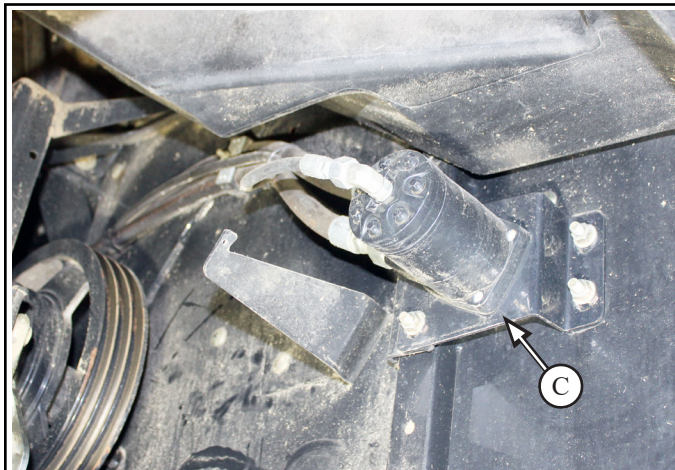


8.1.2 Disconnect speed sensor (**B**) from harness (on outside of combine)

8.1.3 Bring speed sensor wire (**B1**) through grommet (**B2**) and tie up onto conveyor
- speed sensor will not be reused



8.2 Remove hydraulic motor and mounting bracket (**C**) mounted to outer left side of combine



9 Draper Hydraulic Motor Removal

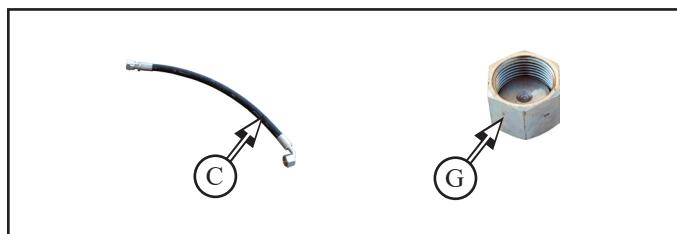
Parts List:

HH147 Hyd. Hose .5 x 24L (C)

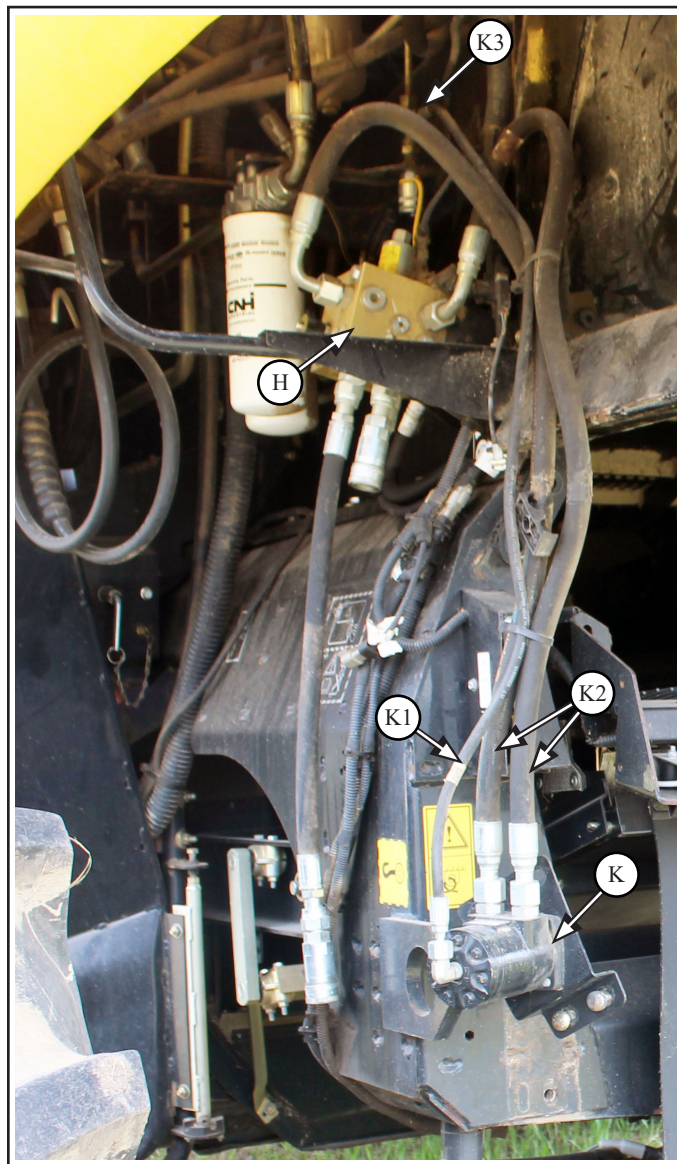
H14-06F Fit Hyd Cap 6 FORS (G)

Qty 1

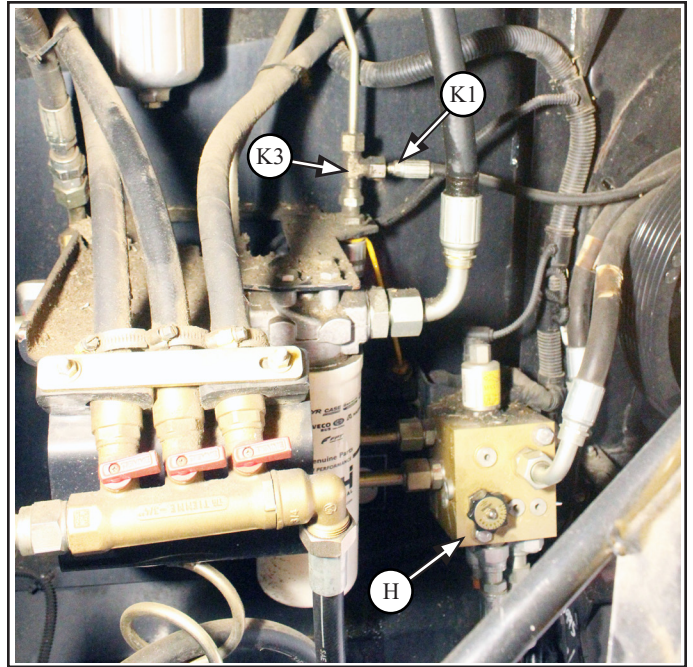
Qty 1



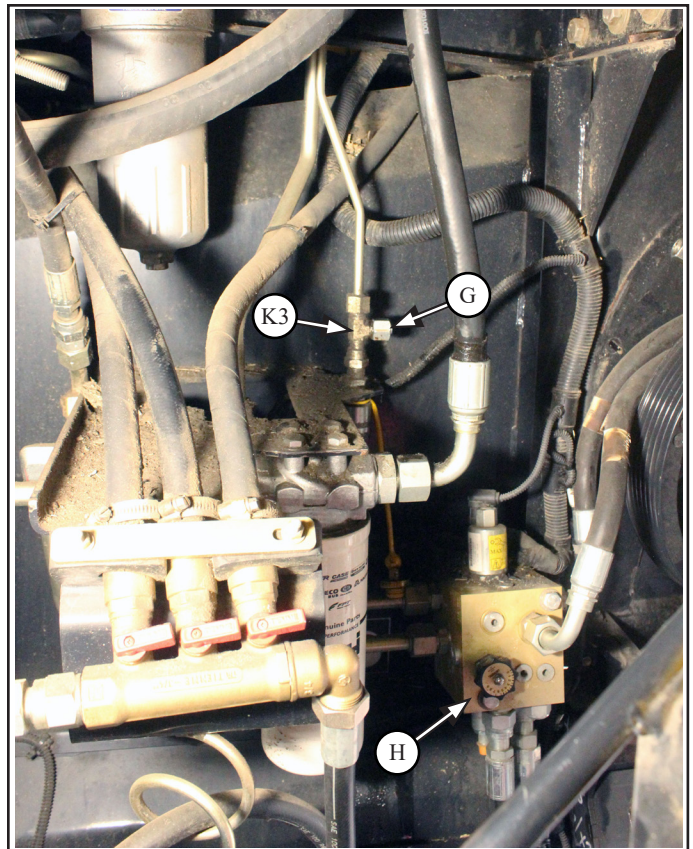
9.1 Remove draper hyd motor (K) from combine



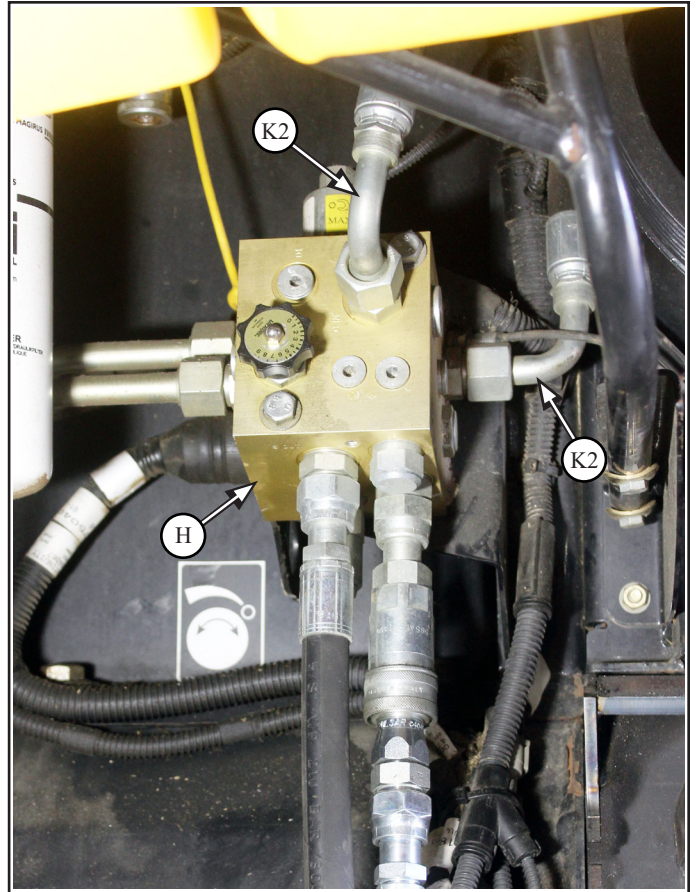
9.2 Disconnect hyd hose (**K1**) from tee fitting (**K3**)



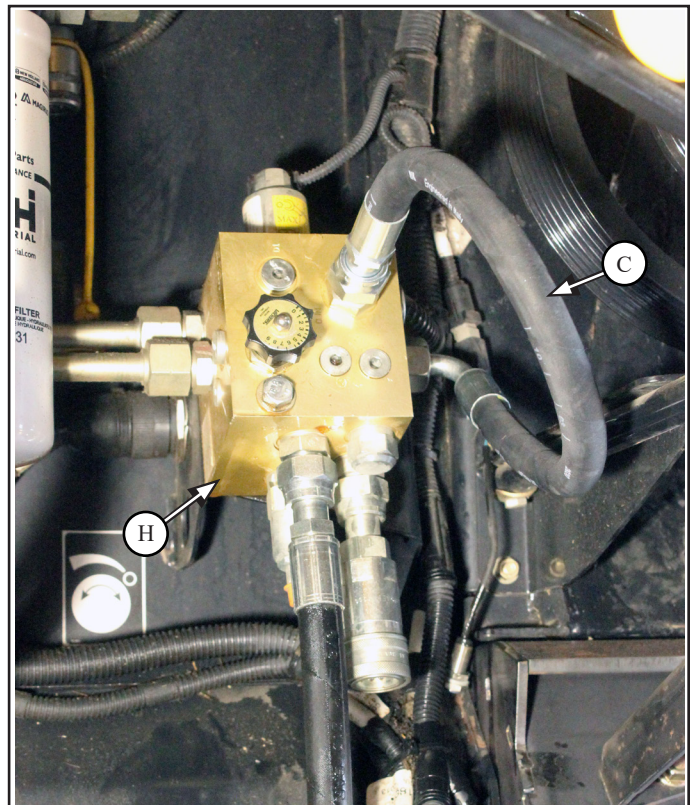
9.3 Install cap fitting (**G**) to tee fitting (**K3**)



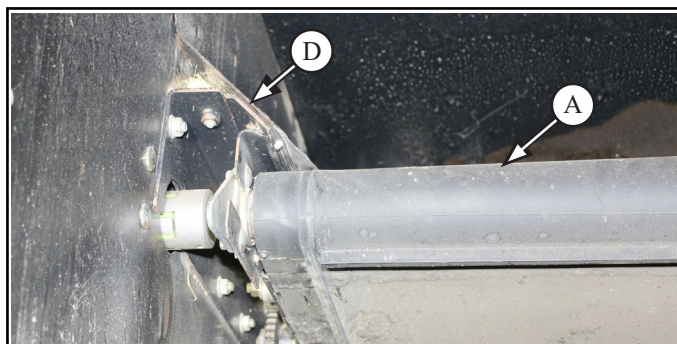
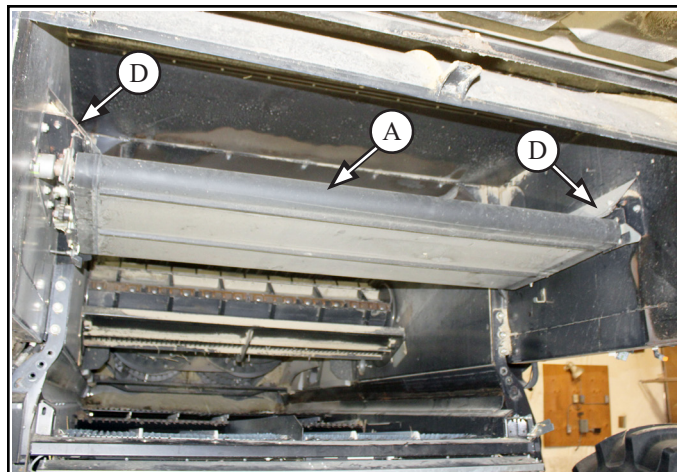
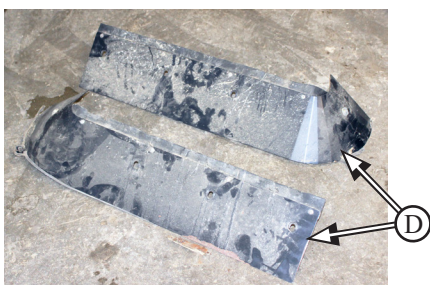
9.4 Remove hyd hoses (**K2**) x2 from hyd block (**H**)



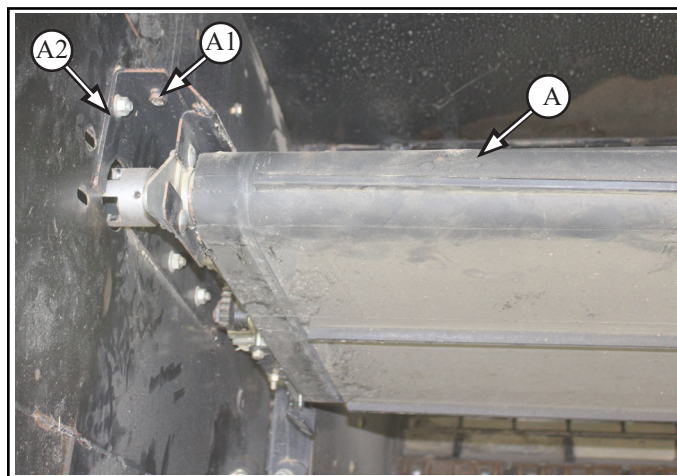
9.5 Install hyd hose (**C**) to hyd block (**H**) ports where hoses (**K2**) were removed from to create a loop



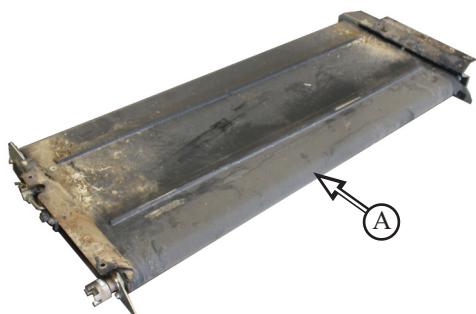
9.6 Remove top deflector plate (D)
- both sides



9.7 Remove top mounting bolts (A1) mounting draper/ conveyor (A) to top of side angle mounting plate (A2)
- both sides



9.8 Remove draper/conveyor (A) off of side angle mounting plate (A2) and out of combine
- not to be reused

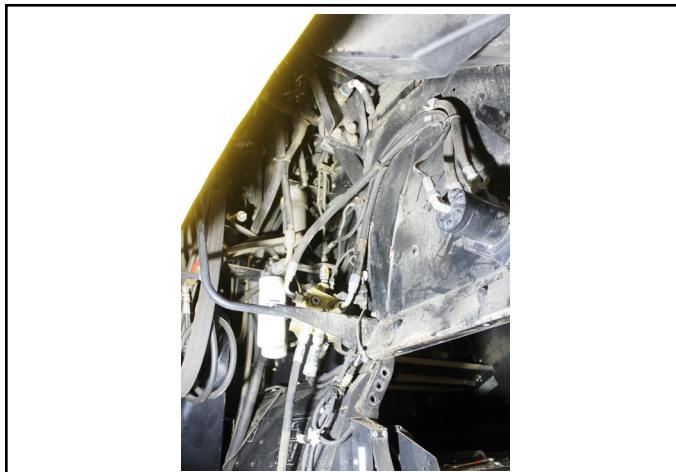
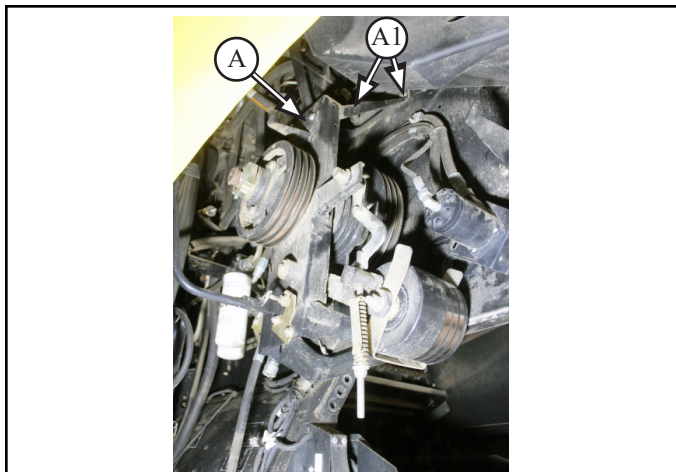
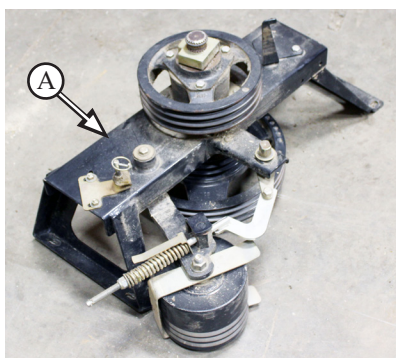


10 Jackshaft Removal

Procedure required only if SCU is being installed

Do NOT remove jackshaft if SCU is NOT being installed

10.1 Remove top mounting bolts (A1) x2 mounting jackshaft (A) to combine side wall



11 Upper Drive Sheave Removal

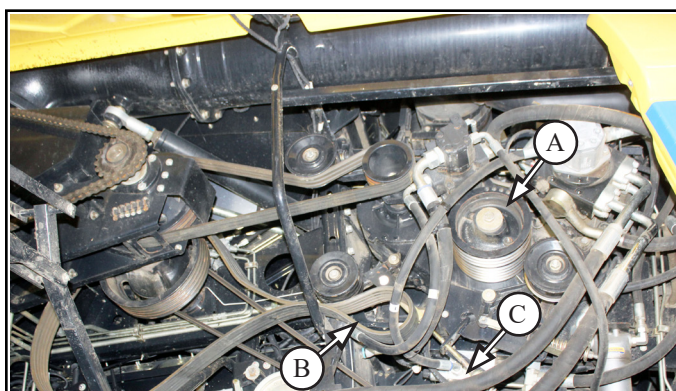
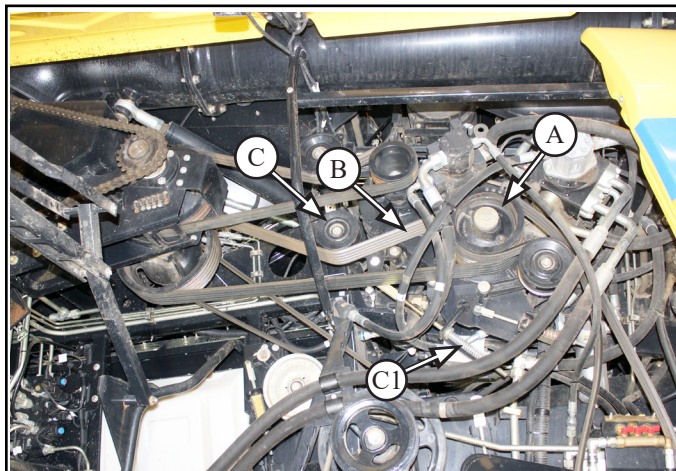
Procedure required only if SCU is being installed

Do NOT remove upper drive sheave if SCU is NOT being installed

11.1 Remove drive belt (B) from upper drive sheave (A)

11.1.1 Loosen belt tension rod (C1) for belt tensioner (C)

11.1.2 Remove drive belt (B) from upper drive sheave (A) only
- do not remove from combine



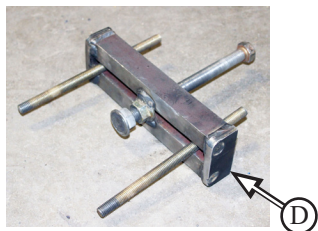
11.2 Remove center bolt and washer (**A1**) from upper drive sheave (**A**)

11.3 Remove upper drive sheave (**A**) using a gear puller (**D**)



- do not use a gear puller that pulls on the flanges or ribs

- may require up to 20T to remove



- Loosely install a bolt into end of shaft 6mm (1/4"). This will prevent the sheave from falling off the end of the shaft

- Mount the gear puller and attach to the sheave through the 2 holes in the sheave

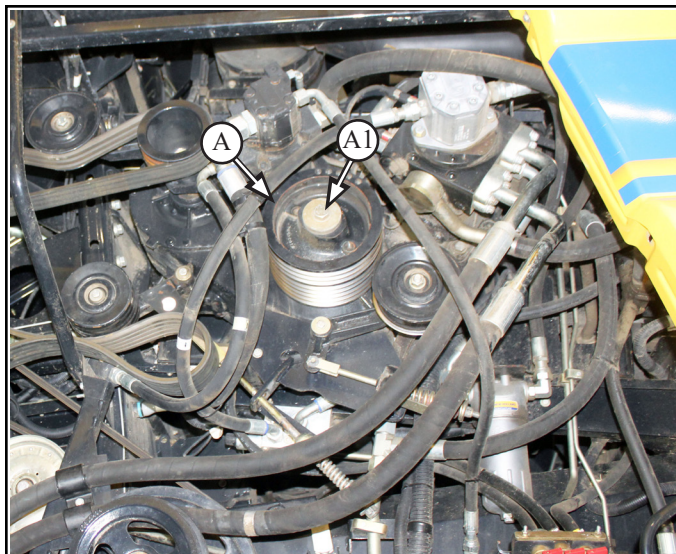
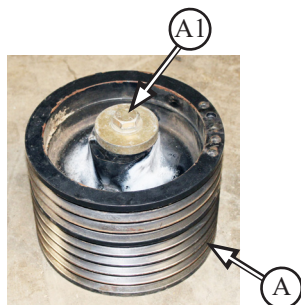
** Note: Heat may be required to loosen sheave off tapered shaft



Use a sling to support sheave from above, as it may "pop" off when it breaks loose **

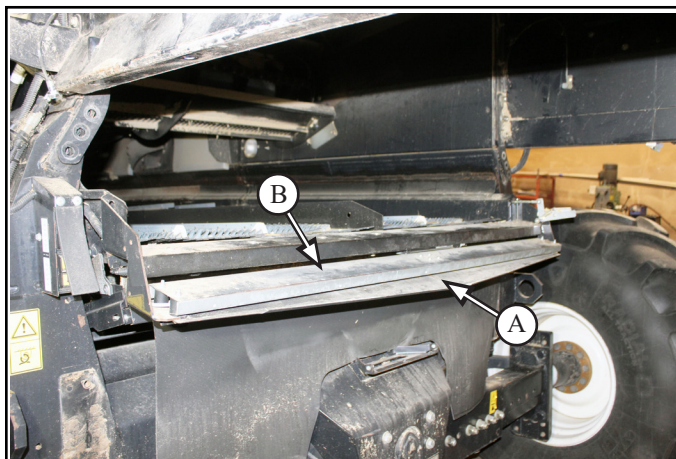


Once the sheave is loosened from the shaft, remove it using care as it is heavy!



12 Seed Loss Monitor Panel Removal

12.1 Remove panel (**A**) below seed loss monitor (**B**)



Notes:

REDEKOP MANUFACTURING

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For additional and the most up to date Manuals:



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