



KAS PRE-CLEANER

JOHN DEERE X9 SERIES

ADAPTOR KIT

INSTALLATION MANUAL

PRODUCT NUMBER: KAS-302



0 Safety

0.1 Instructions

0.1.1 IMPORTANT: Read through this instruction manual thoroughly and familiarize yourself with the KAS Pre-cleaner before installation of these components.

This instruction manual explains the proper procedure for installation of the KAS Pre-cleaner. Do not skip steps or perform them out of order.



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 Work In Ventilated Area

0.4.1 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.

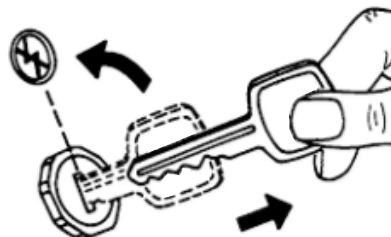


0.5 Remove Key from Ignition

0.5.1 ALWAYS shut off machine engine prior to working on it.

Apply park brake, remove key and lock operators cab.

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



0.6 Block Wheels

0.6.1 Park the machine on level ground.

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



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 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.



0.8 Guards and Shields

0.8.1 Keep guards and shields in place at all times. Ensure that they are serviceable and maintained correctly.



0.9 Avoid Contact With Moving Parts

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

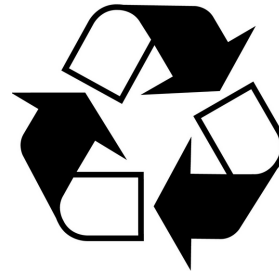


0.10 Dispose of Waste Properly

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 Personal Protective Equipment (PPE)

0.11.1 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.

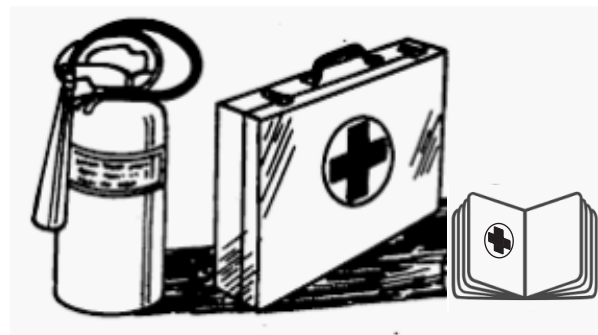


0.12 Prepare for Emergencies

0.12.1 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.



0.13 In the Event of Fire

0.13.1 Stop work immediately at first sign of fire. This may be the smell of smoke or the sight of smoke or flames.



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 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.

0.14 Safety Decals

Pictorial Safety Signs

At several important places on this machine, safety signs are affixed intending to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information on how to avoid personal injury. These safety signs and a brief explanatory text follow.

Hand Injury / Rotate Danger RP1089

Risk of injury caused by rotating parts.



Caution / Check Service Manual RP873

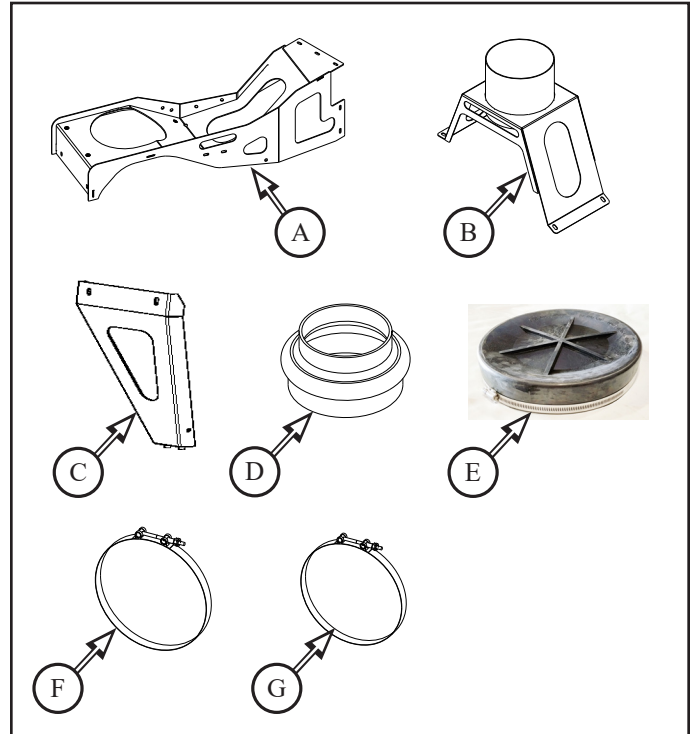
This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.



1 KAS Pre-cleaner Adaptor Kit Installation

Parts List:

KA181BA	Adaptor Mounting Bracket (A)	Qty 1
KA182B	Support Bracket (B)	Qty 1
KA183BA	Lower Support Bracket (C)	Qty 1
RP1549	Reducing Hump Hose (D)	Qty 1
RP1569	Rubber Cap - 10.5in ID w/Clamp (E)	Qty 1
RP1531	Clamp T-Bolt 0.25 UNF x 10.625 ID (F)	Qty 1
RP1535	Clamp T-Bolt 0.25 UNF x 8.5 (G)	Qty 1



**** Ensure dust, dirt and chaff is blown away from work area ****

1.1 Remove OEM air cleaner housing (H)

- housing will have to be rotated 180 degrees so the inlet to the air filter housing is pointing straight up



WARNING ** Ensure no debris enters engine intake while intake hose clamp is loose **

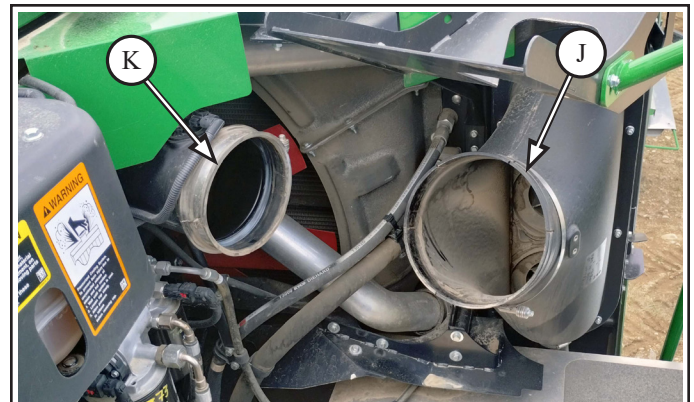
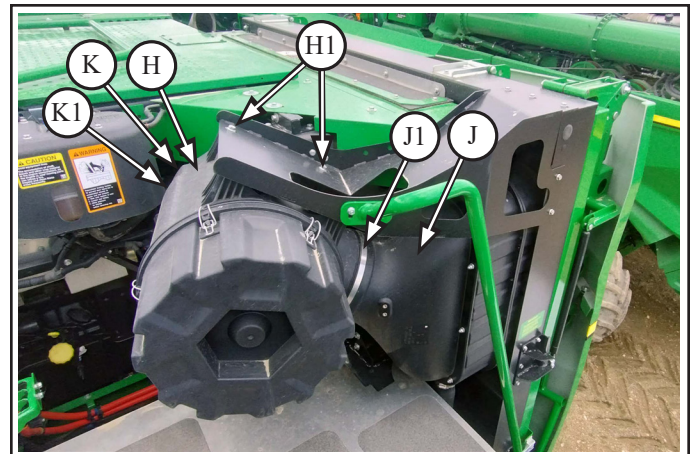
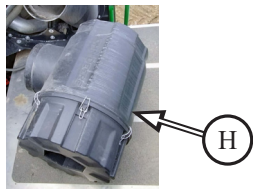
1.1.1 Loosen the hose clamps (J1 & K1) that hold the air cleaner housing (H) to the air intake inlet (J) and outlet (K)

- hose clamp (J1) not to be reused
- hose clamp (K1) to be reused

1.1.2 Remove mounting hardware (H1) x4 - to be reused

1.1.3 Remove air cleaner housing (H) from inlet (J) and outlet (K)

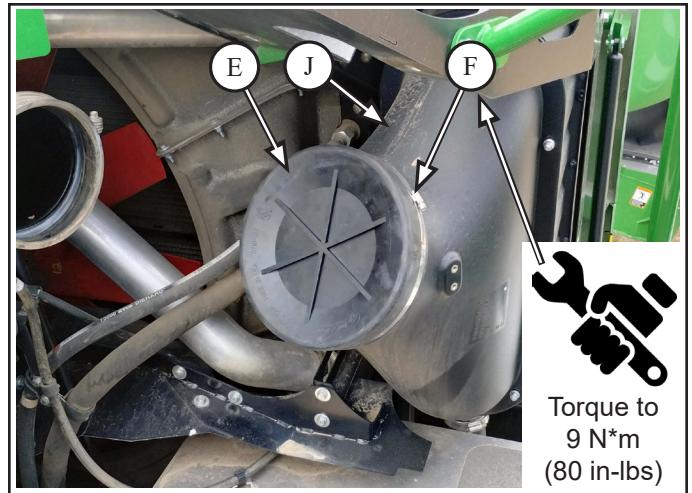
- to be reinstalled



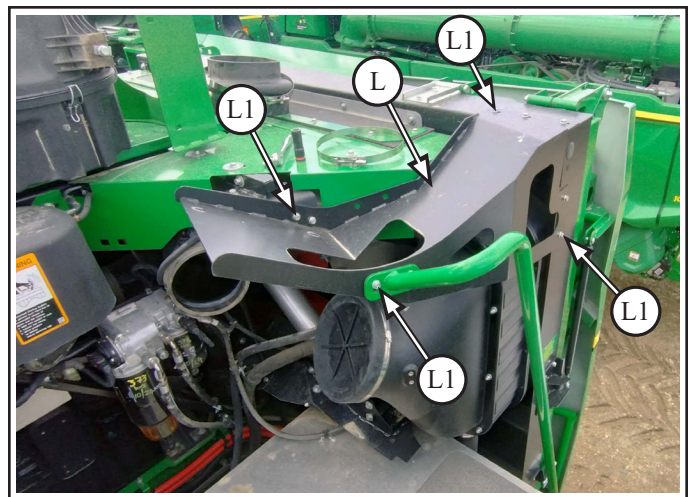
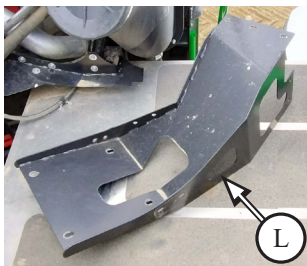
1.1.4 View with air cleaner housing (H) removed

1.2 Install rubber cap (**E**) to air intake (**J**), with:
- new hose clamp (**F**)

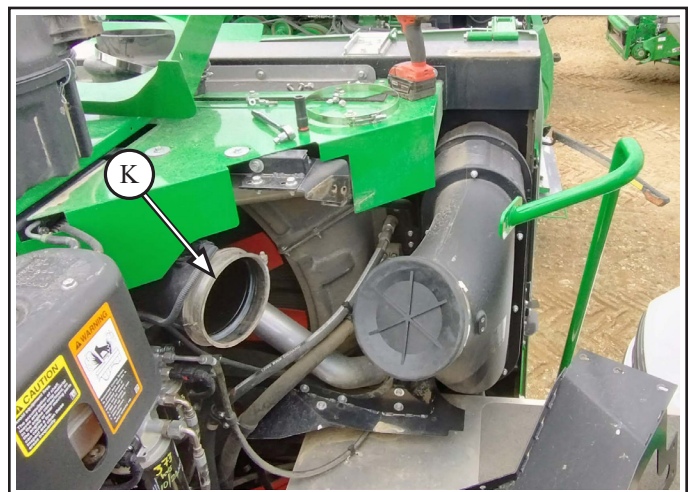
1.2.1 Torque to 9 N*m (80 in-lbs)



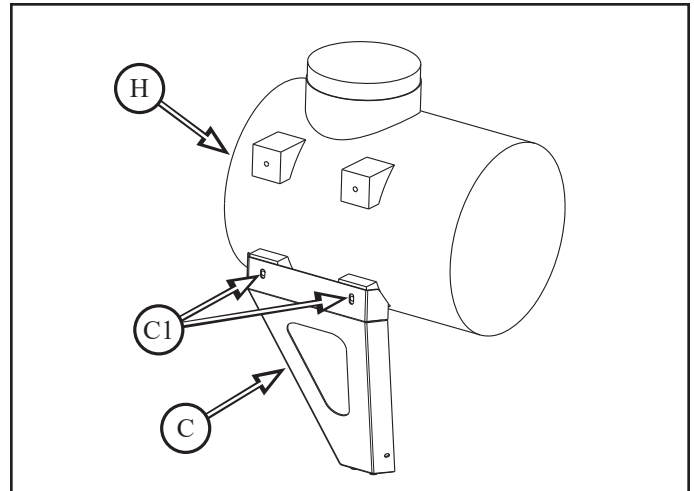
1.3 Remove OEM top adaptor bracket (**L**)
- not to be reused
- mounting hardware (**L1**) to be reused



1.3.1 View with OEM top adaptor bracket (**L**) removed



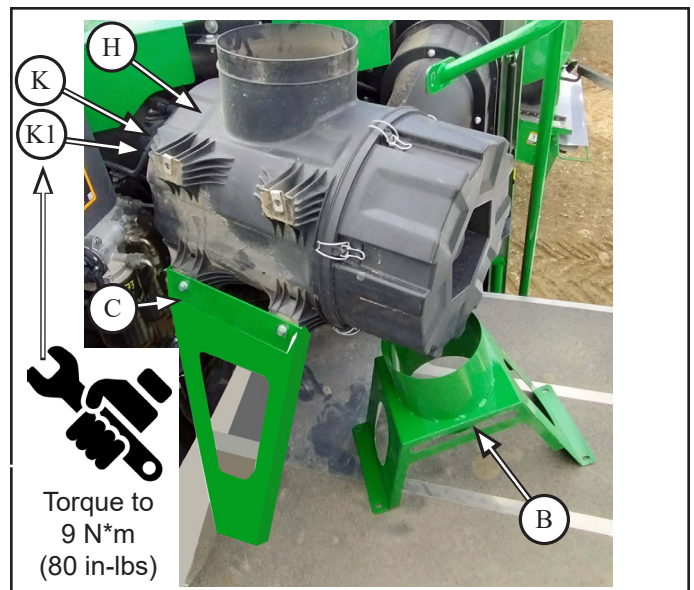
- 1.4** Install lower support bracket (**C**) to air cleaner housing (**H**), with:
- reuse existing hardware (**C1**) x2



- 1.5** Install air cleaner housing (**H**) to outlet (**K**), with:
- reuse hose clamp (**K1**)

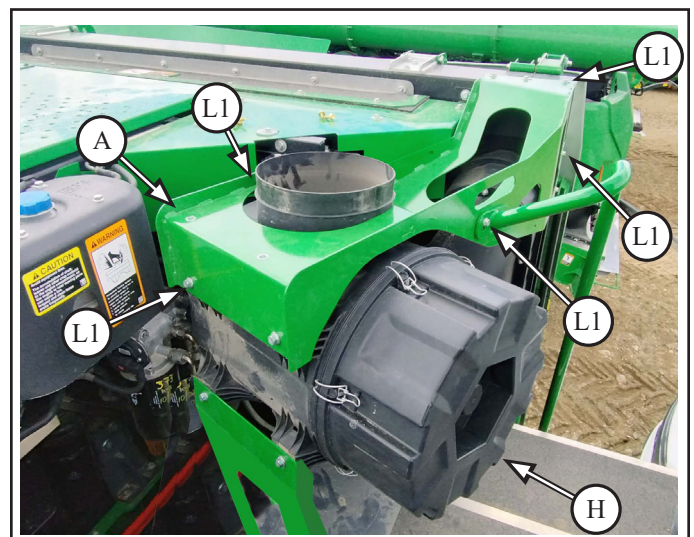
- 1.5.1** Place support bracket (**B**) underneath housing for temporary support

- 1.5.2** Torque hose clamp (**K1**) to 9 N*m (80 in-lbs)



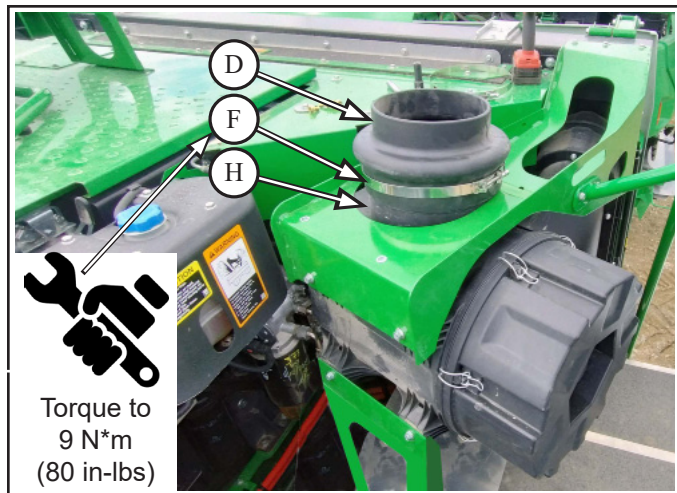
- 1.6** Install adaptor mounting bracket (**A**) to combine and air cleaner housing (**H**), with:
- reuse mounting hardware (**L1**)

- 1.6.1** Remove support bracket (**B**) underneath housing used for temporary support

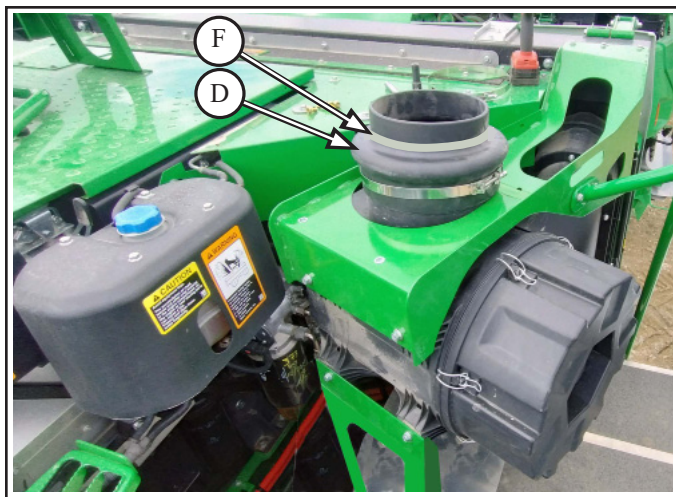


1.7 Install large hose clamp (**F**) and reducing hose hump (**D**) to air cleaner housing (**H**) intake

1.7.1 Torque hose clamp (**F**) to 9 N*m (80 in-lbs)

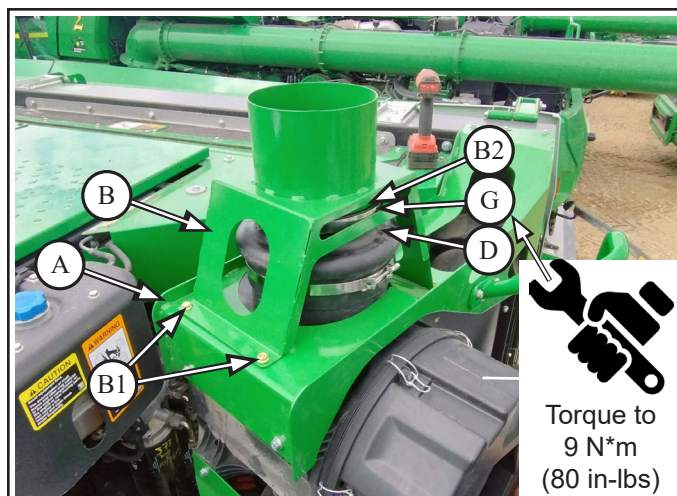


1.8 Install small hose clamp (**G**) to top of reducing hose hump (**D**)
- do not tighten at this stage



1.9 Install support bracket (**B**) to adaptor mounting bracket (**A**), with:
- M8 x 20 flange head bolt (**B1**) x4
- ensure pipe (**B2**) is seated into hose hump (**D**)

1.9.1 Torque hose clamp (**G**) to 9 N*m (80 in-lbs)



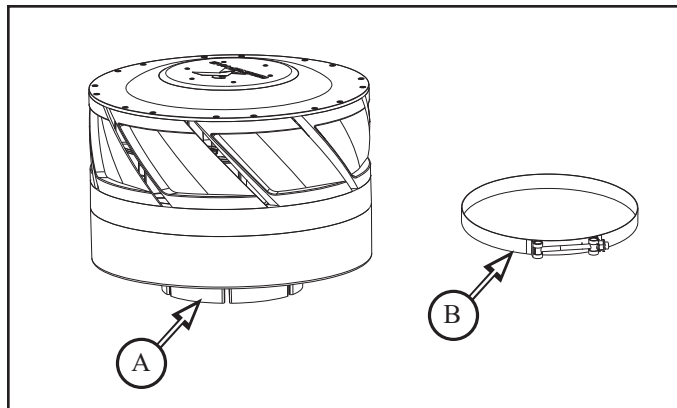
1.10 View with KAS pre-cleaner adaptor kit installed



2 KAS Pre-cleaner Installation

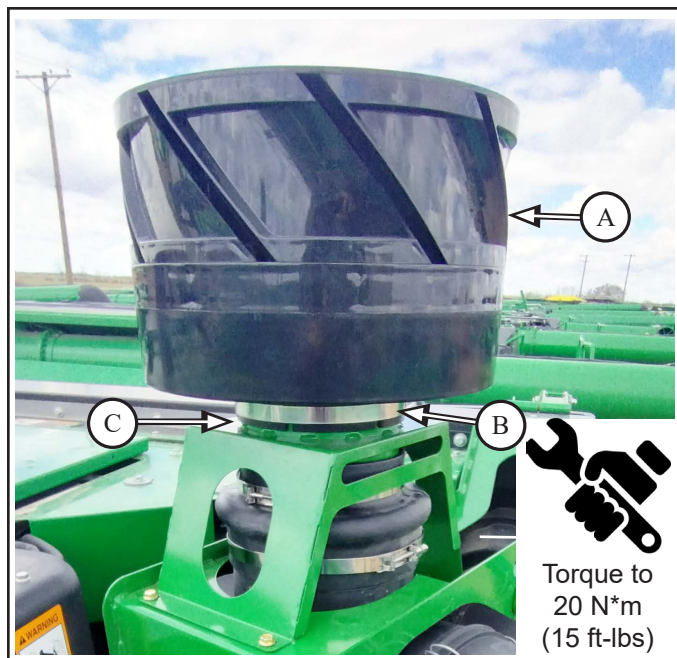
Parts List:

KA800A KAS Pre-cleaner assembly 8in (A) Qty 1
RP1535 Clamp T-Bolt Band 0.25 x 8.5 ID SS (B) Qty 1

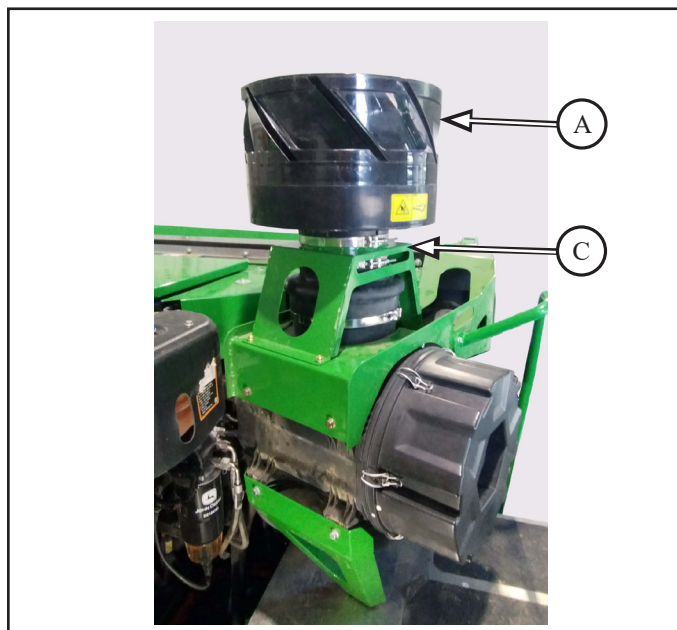


2.1 Install KAS Pre-cleaner assembly (A) on to adapter tube (C), with:
- hose clamp (B)

2.1.1 Torque to 20 N*m (15 ft*lb)

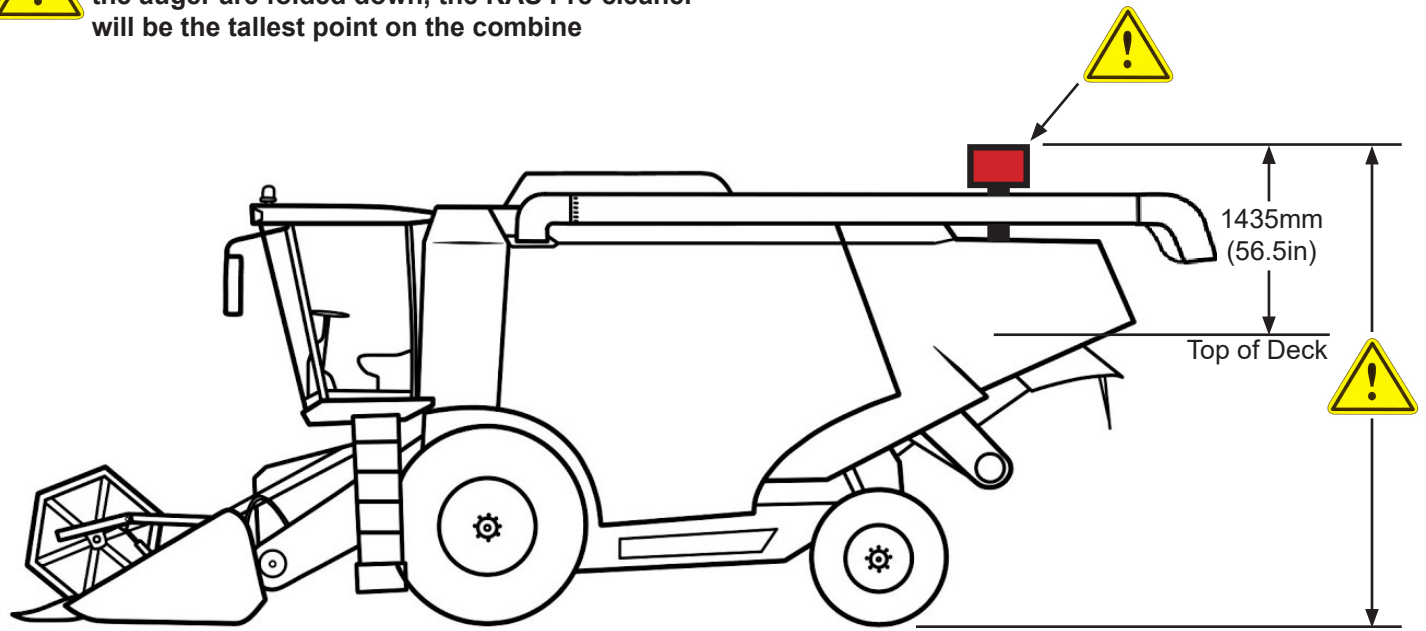


2.1.1 View with KAS Pre-cleaner assembly (A) installed onto adaptor (C)





CAUTION: When the grain tank extensions and the auger are folded down, the KAS Pre-cleaner will be the tallest point on the combine



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)



Notes:

REDEKOP MANUFACTURING

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