

# Horizontal Assembly That Attaches to the Front of the Sprayer

**Smart**  **Apply**<sup>®</sup>  
Intelligent Spray Control System<sup>™</sup>



## INSTALLATION INSTRUCTIONS

### Horizontal Assembly That Attaches to the Front of the Sprayer

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*Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.*



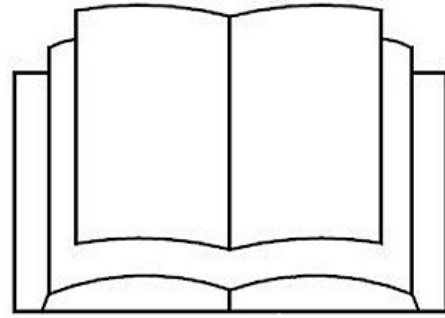
# Introduction

## Introduction

**IMPORTANT:** Read this instruction thoroughly and familiarize yourself with the machine before performing the procedure. Do not skip steps or perform them out of order.

**IMPORTANT:** Stainless steel is a soft metal, use only hand tools or electric wrenches for tightening. Avoid using impact wrenches and prevailing torque fasteners to prevent damage.

This instruction demonstrates the proper procedure for installing the Smart Apply Intelligent Spray System onto the air blast sprayer.



A95278—UN—23FEB17

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## Compatibility Chart

**IMPORTANT:** Customers are advised to verify their model against the compatibility chart before proceeding with the installation.

To verify the compatibility of this kit with your machine, it is recommended to review the compatibility chart available on the Smart Apply™ website. This can be accessed using the QR Code provided below:



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Access to compatibility chart on Smart Apply™ website

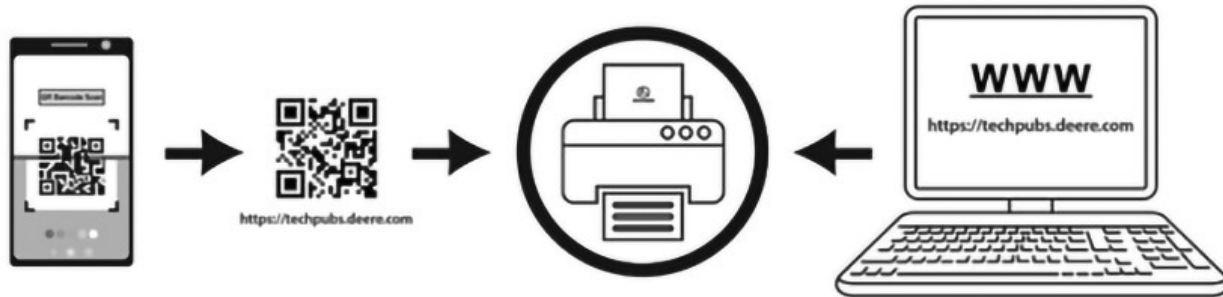
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## Trademarks

Trademarks	
Smart Apply®	Registered trademark of Smart Apply
Teflon™	Teflon is a trademark of the Chemours Company

UE5VH6W,1735935358063-19-09JAN25-1/1

## Download Instructions



Instructions, manuals, and other documents may be downloaded at [www.techpubs.deere.com](https://www.techpubs.deere.com). Scanning the QR code on a mobile device will route to the site automatically.

Les instructions, les manuels et autres documents peuvent être téléchargés à cette adresse: [www.techpubs.deere.com](https://www.techpubs.deere.com). Scanner le QR code via un appareil mobile mène automatiquement au site.

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# Safety

## Recognize Safety Information

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.



T81389—UN—28JUN13

DX,ALERT-19-03OCT22-1/1

## Understand Signal Words

**DANGER;** The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING;** The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION;** The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

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



TS187—19—30SEP88

are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL-19-05OCT16-1/1

## Follow Safety Instructions

Carefully read all safety messages in this instruction. Read the product operator's manual for operating instructions and safety messages.

Do not let anyone operate machine until they have been properly instructed.



TS201—UN—15APR13

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### Replace Safety Signs

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



TS201—UN—15APR13

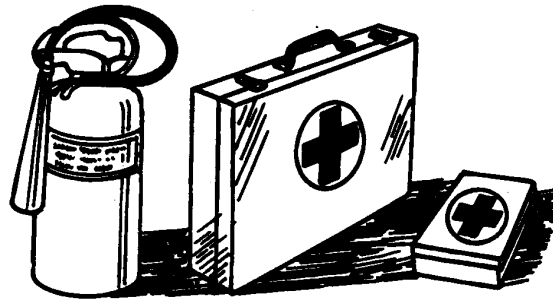
DX,SIGNS1-19-04JUN90-1/1

### Prepare for Emergencies

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.



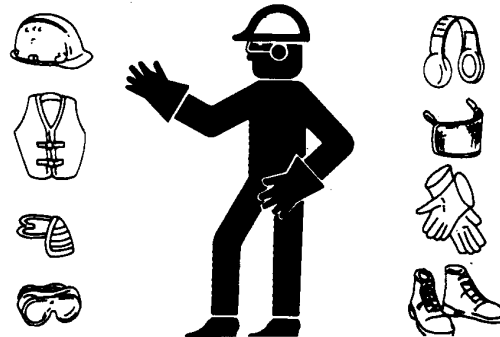
TS291—UN—15APR13

DX,FIRE2-19-03MAR93-1/1

### Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



TS206—UN—15APR13

DX,WEAR2-19-03MAR93-1/1



### Protect Against Noise

There are many variables that affect the sound level range, including machine configuration, condition and maintenance level of the machine, ground surface, operating environmental, duty cycles, ambient noise, and attachments.

Exposure to loud noise can cause impairment or loss of hearing.

**Always wear hearing protection.** Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



TS207—UN—23AUG88

DX,NOISE-19-03OCT17-1/1

### Practice Safe Maintenance

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.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.



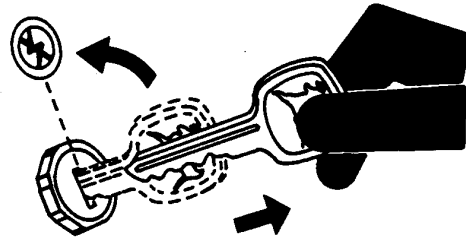
TS218—UN—23AUG88

DX,SERV-19-28FEB17-1/1

### Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



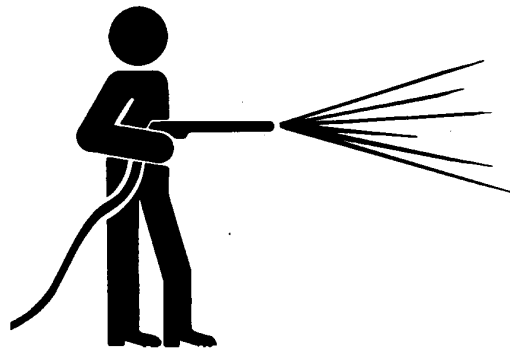
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DX,PARK-19-04JUN90-1/1

### Work in Clean Area

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



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DX,CLEAN-19-04JUN90-1/1

### Avoid High-Pressure Fluids

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.

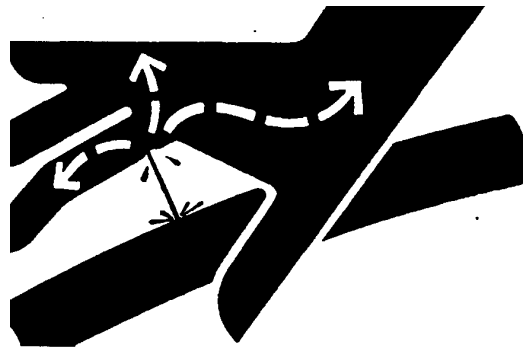
Replace worn or damaged hose assemblies immediately with approved replacement parts.

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



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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.

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### Decontaminate Spray Equipment Before Servicing

**⚠ CAUTION:** Spray solutions or vapors can be extremely dangerous. Treat all spray chemicals, solutions, and solution residues with great caution. **DO NOT** take chances. When in doubt, proceed as though contamination is present.

Before performing any service activity:

- Wear appropriate personal protective equipment.

- Clean vehicle (see Clean Vehicle of Hazardous Chemicals, Including Pesticides in this section).
- Drain Solution Tank (see machine operator's manual).
- Rinse wet system (see operator's manual).

Keep spray material from contacting skin. If spray material contacts skin, wash off immediately with clean water and detergent, or follow manufacturers instructions for chemical used last.

Wear protective clothing, goggles, and gloves while attaching parts.

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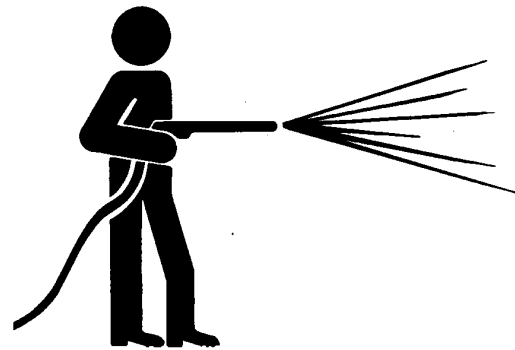
### Clean Vehicle of Hazardous Chemicals, Including Pesticides

**⚠ CAUTION:** During application of hazardous chemicals, including pesticides, residue can build up on the inside or outside of the vehicle. Clean vehicle according to use instructions of hazardous chemical.

When exposed to hazardous chemicals, clean exterior and interior of vehicle daily to keep free of the accumulation of visible dirt and contamination.

1. Sweep or vacuum the floor of cab.
2. Clean headliners and inside cowlings of cab.

**IMPORTANT:** Directing pressurized water at electronic/electrical components or connectors, bearings and hydraulic seals, fuel injection pumps or other sensitive parts and components may cause product malfunctions. Reduce pressure, and spray at a 45 to 90 degree angle.



T6642EJ—UN—18OCT88

3. Wash entire exterior of vehicle.
4. Dispose of any wash water with hazardous concentrations of active or non-active ingredients according to published regulations or directives.

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### Use Proper Tools

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. **DO NOT** use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only approved service parts.



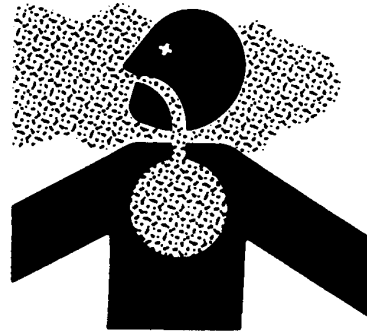
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### Work In Ventilated Area

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.



TS220—UN—15APR13

DX,AIR-19-17FEB99-1/1

### Handling Batteries Safely

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace grounded clamp last.

Sulfuric acid in battery electrolyte is poisonous and strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

#### Avoid hazards by:

- Filling batteries in a well-ventilated area
- Wearing eye protection and rubber gloves
- Avoiding use of air pressure to clean batteries
- Avoiding breathing fumes when electrolyte is added
- Avoiding spilling or dripping electrolyte
- Using correct battery booster or charger procedure.

#### If acid is spilled on skin or in eyes:

1. Flush skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush eyes with water for 15—30 minutes. Get medical attention immediately.

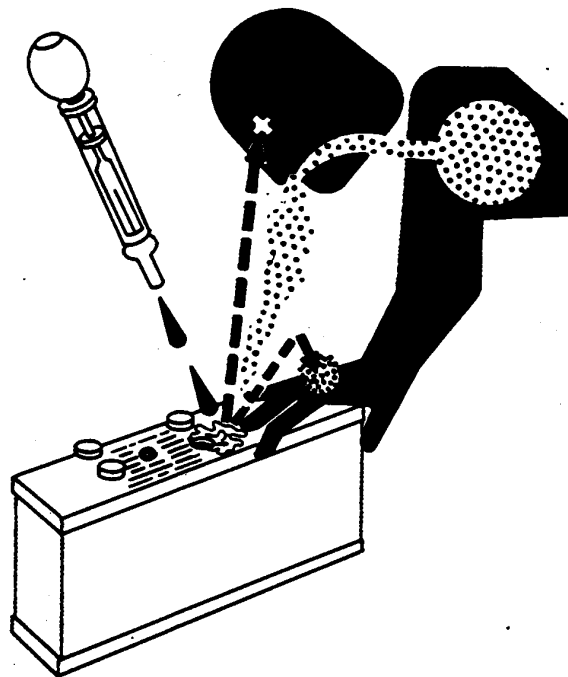
#### If acid is swallowed:

1. Do not induce vomiting.
2. Drink large amounts of water or milk, but do not exceed 2 L (2 qt.).
3. Get medical attention immediately.

**WARNING:** Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash hands after handling.**



TS204—UN—15APR13



TS203—UN—23AUG88

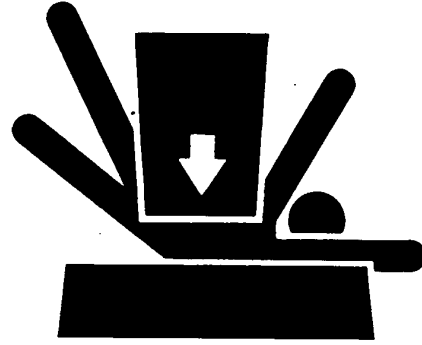
DX,WW,BATTERIES-19-02DEC10-1/1

### Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a machine, always follow safety precautions listed in the implement or attachment operator's manual.



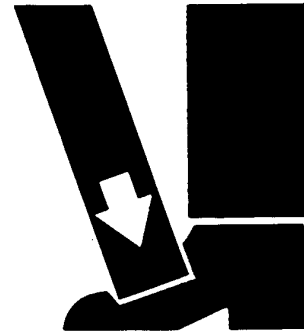
TS229—UN—23AUG88

DX,LOWER-19-24FEB00-1/1

### Use Proper Lifting Equipment

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.



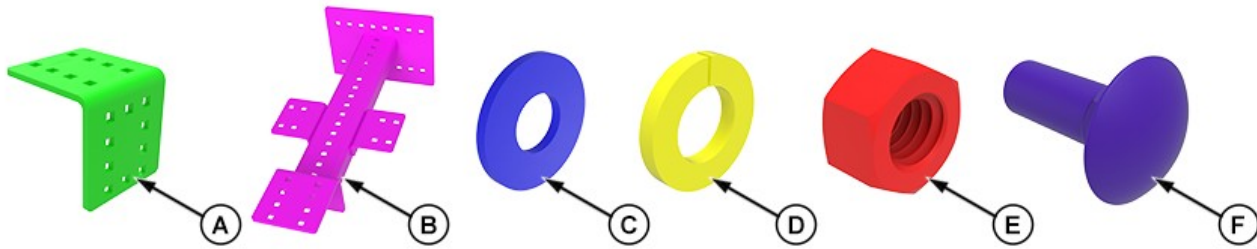
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# Horizontal Assembly That Attaches to the Front of the Sprayer

## Bracket Subassembly

### Step 1 of 3: Bracket assembly



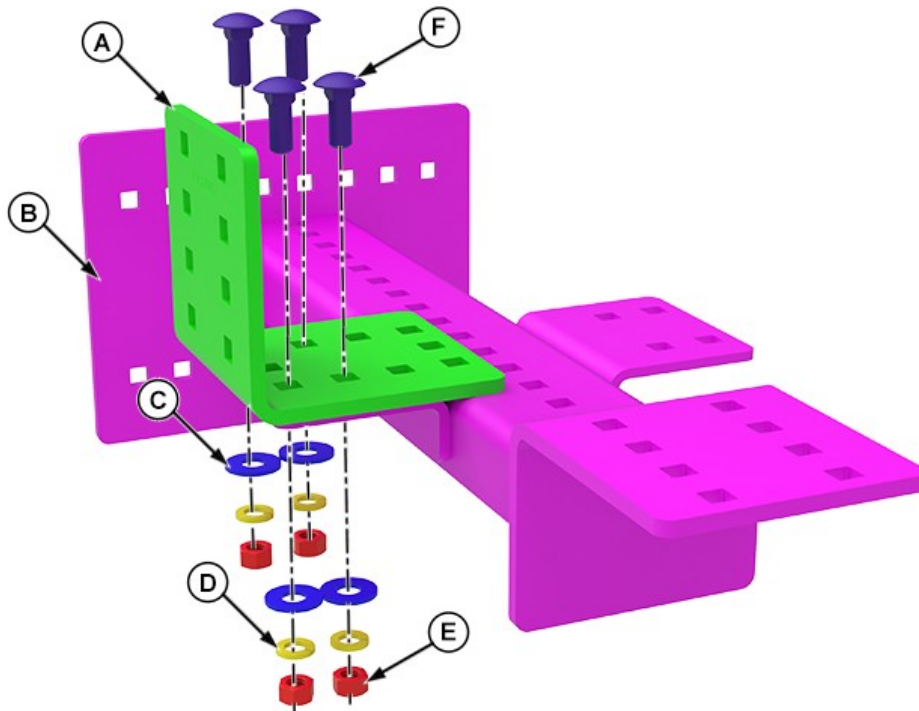
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Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100281	Bracket	1
B	1100366	Welded tower	1
C	7100460	Washers	4
D	7100520	Split washers	4
E	7100521	Nuts	4
F	7100462	Bolts	4

1. Position the welded tower (B) on a table with mounting brackets facing up.
2. Install bracket (A) to welded tower (B) using washers (C), split washers (D), nuts (E) and bolts (F).

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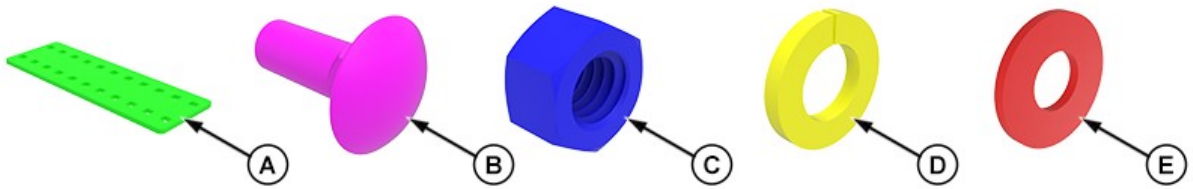


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**Step 2 of 3: Bracket assembly**

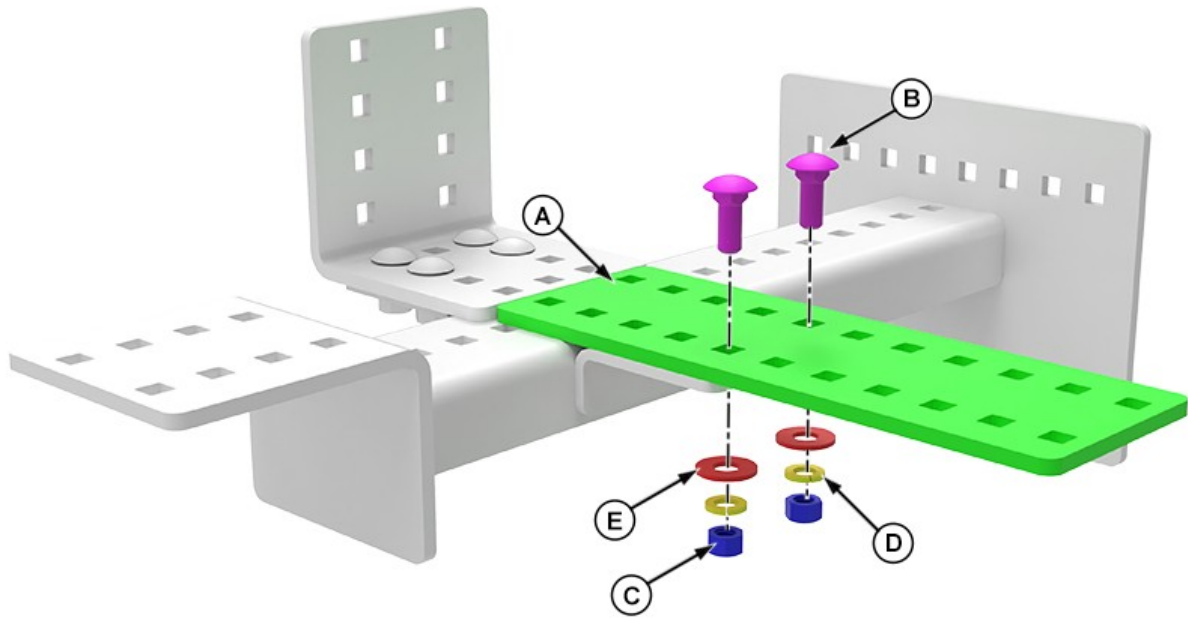


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Parts required for this step			
Identifier	Part Number	Description	Quantity
A	1100339	Bracket	1
B	7100462	Bolts	2
C	7100521	Washers	2
D	7100520	Split washers	2
E	7100460	Nuts	2

1. Install bracket (A) to welded tower using bolts (B), washers (C), split washers (D) and nuts (E).

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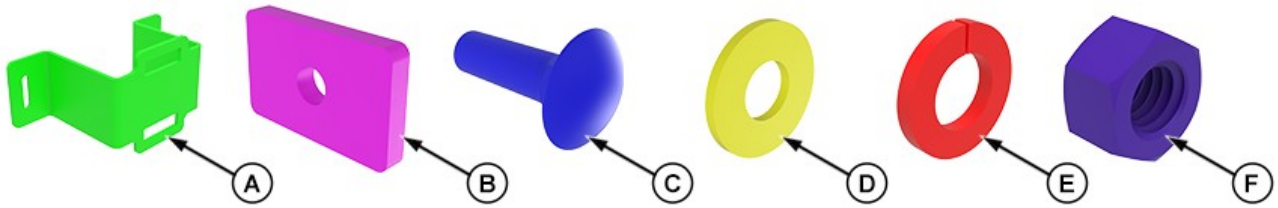


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**Step 3 of 3: Bracket assembly**



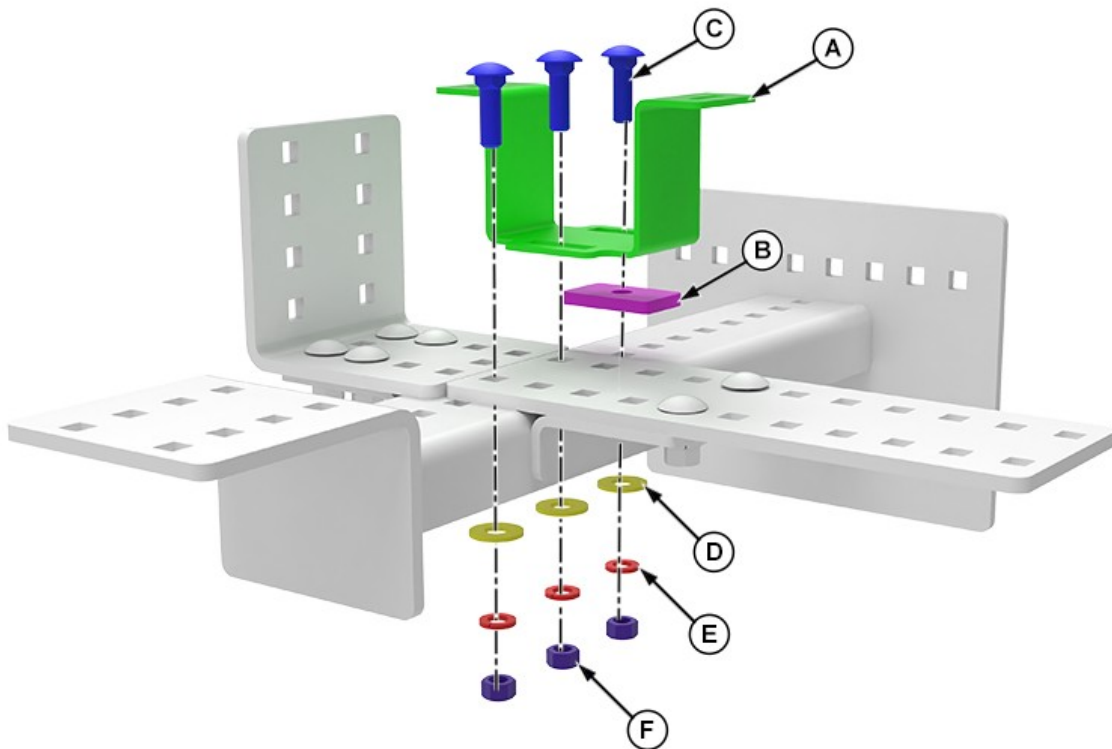
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Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100368	Bracket	1
B	1100273	Bracket	1
C	7100463	Bolts	3
D	7100460	Washers	3
E	7100520	Washers	3
F	7100521	Nuts	3

1. Position bracket (A) below bracket (B) and secure them using bolts (C), washers (D and E) and nuts (F).

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## Mounting Brackets to Sprayer

### Step 1 of 4: Use bracket subassembly to determine drill positions

1. Position bracket subassembly in the designated area of the sprayer where it will be mounted.

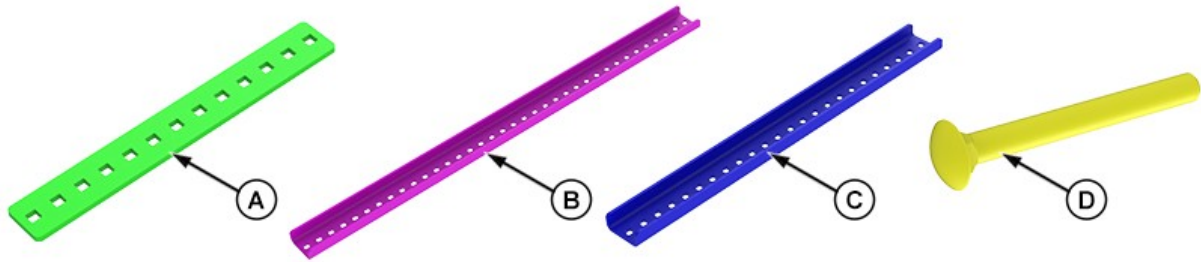
*NOTE: Keep the LiDAR raised between 30 and 40 inches from the ground. Do not exceed 60 inches; if it goes beyond that height, it will not be able to detect objects 5 ft to the left or right.*

2. Mark the drill positions on the sprayer and proceed to drill the holes.

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**Step 2 of 4: Bracket assembly**



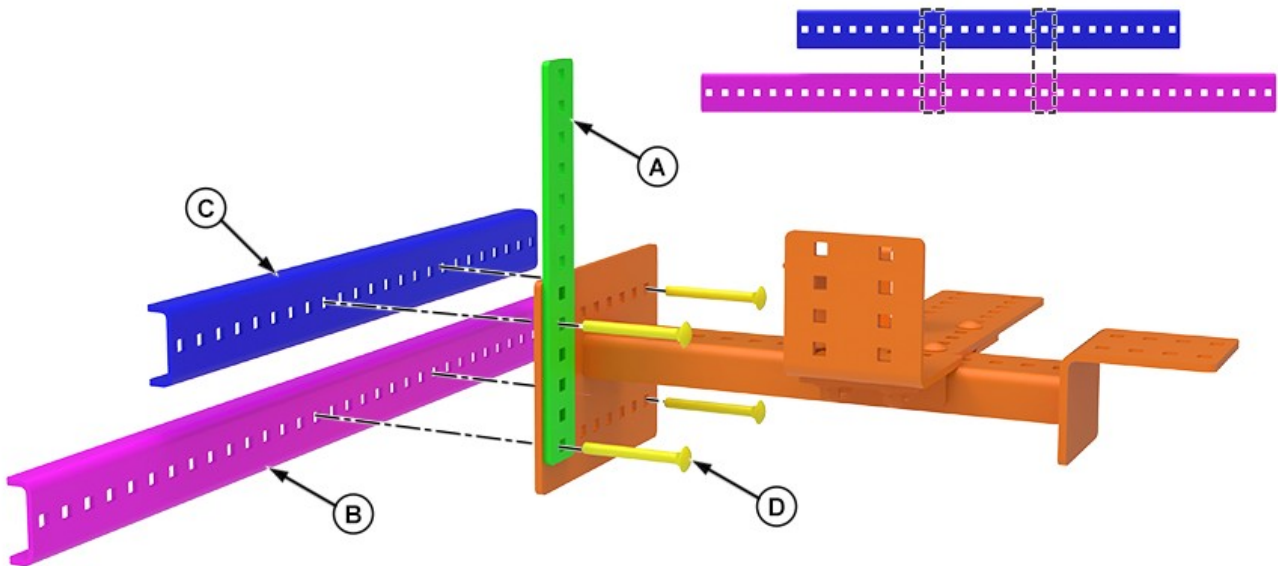
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Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100305	Bracket	1
B	1100266	Bracket	1
C	1100265	Bracket	1
D	93180A464	Bolts	4

1. Install and position brackets (A, B and C) to bracket assembly using bolts (D).

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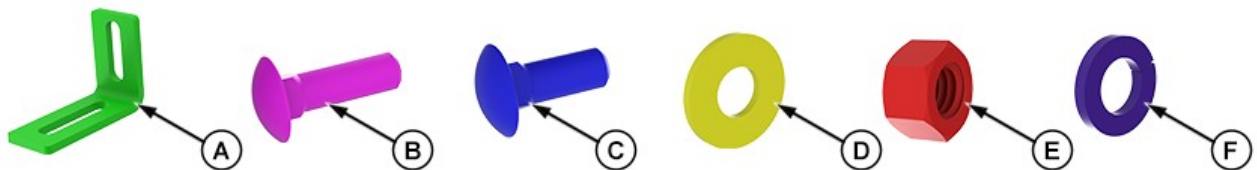


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**Step 3 of 4: Upper bracket assembly**

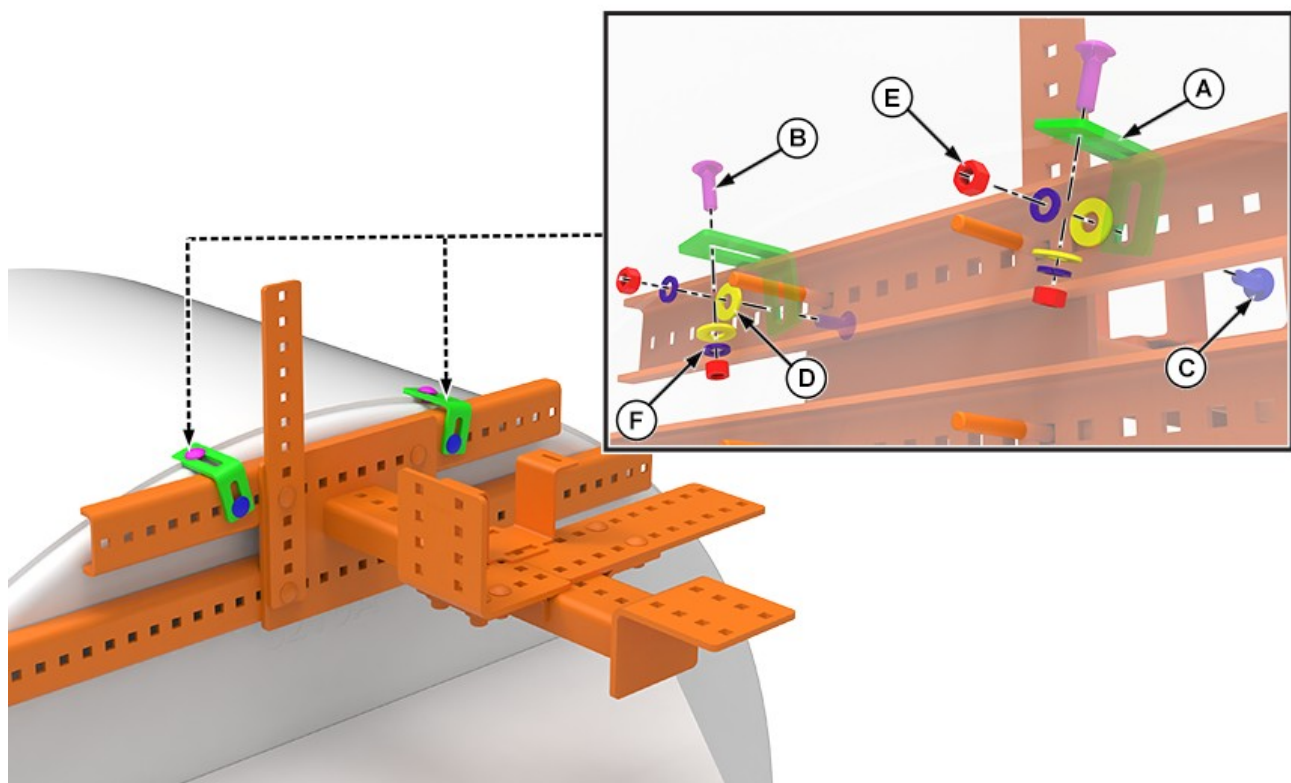


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Parts required for this step			
Identifier	Part Number	Description	Quantity
A	1100268	Bracket	2
B	7100463	Screw	2
C	7100462	Screw	2
D	7100460	Washer	4
E	7100521	Lock nut	4
F	7100520	Washer	4

1. Install bracket (A) to sprayer tank using screw (B), washers ( D and F) and lock nut (E).
  2. Install screw (C) to bracket (A) and secure previously installed bracket using washers and lock nuts.
- NOTE: If there are existing holes in the tank, attempt to utilize those to support the upper bracket.*

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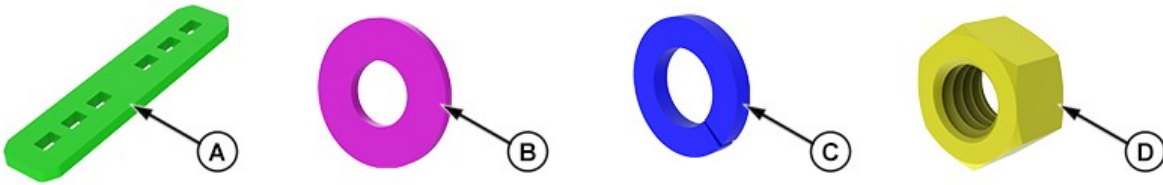


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**Step 4 of 4: Bracket assembly**



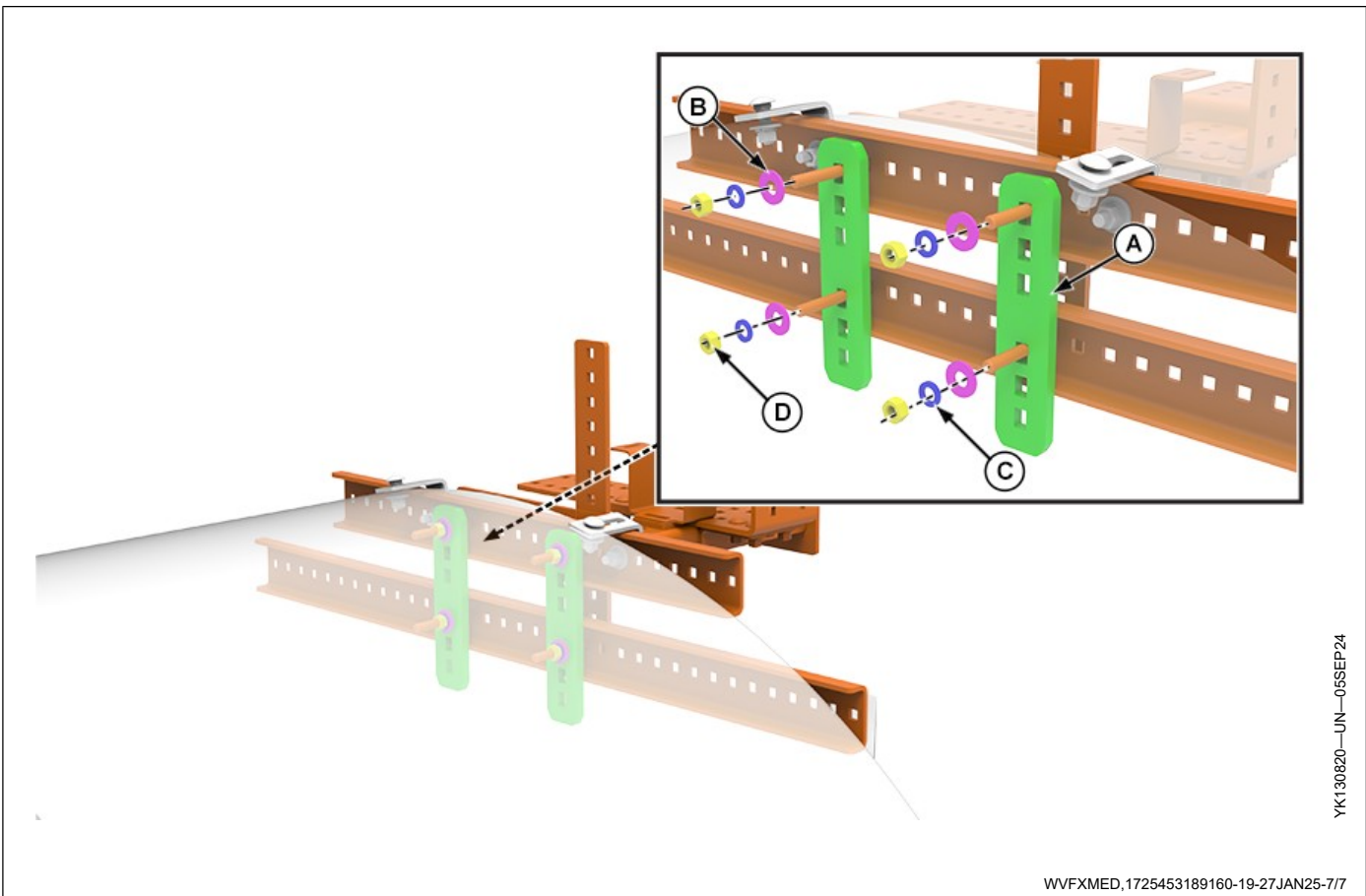
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Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100277	Bracket	2
B	7100460	Washer	4
C	7100520	Washer	4
D	7100521	Lock nut	4

1. Install brackets (A) to existing tower bracket assembly bolts and secure using washers (B and C) and lock nuts (D) from the inside of the tank.

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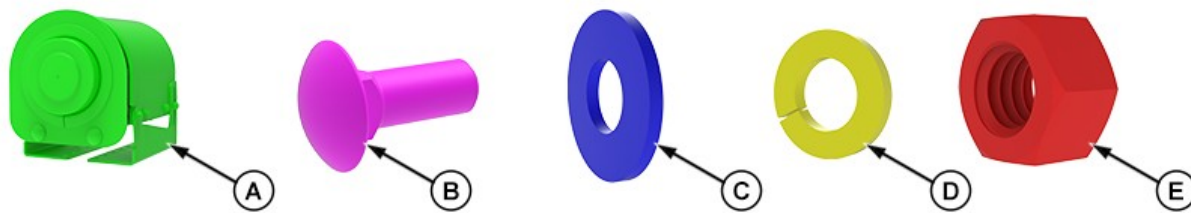


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## LiDAR Assembly

### Step 1 of 1: LiDAR assembly



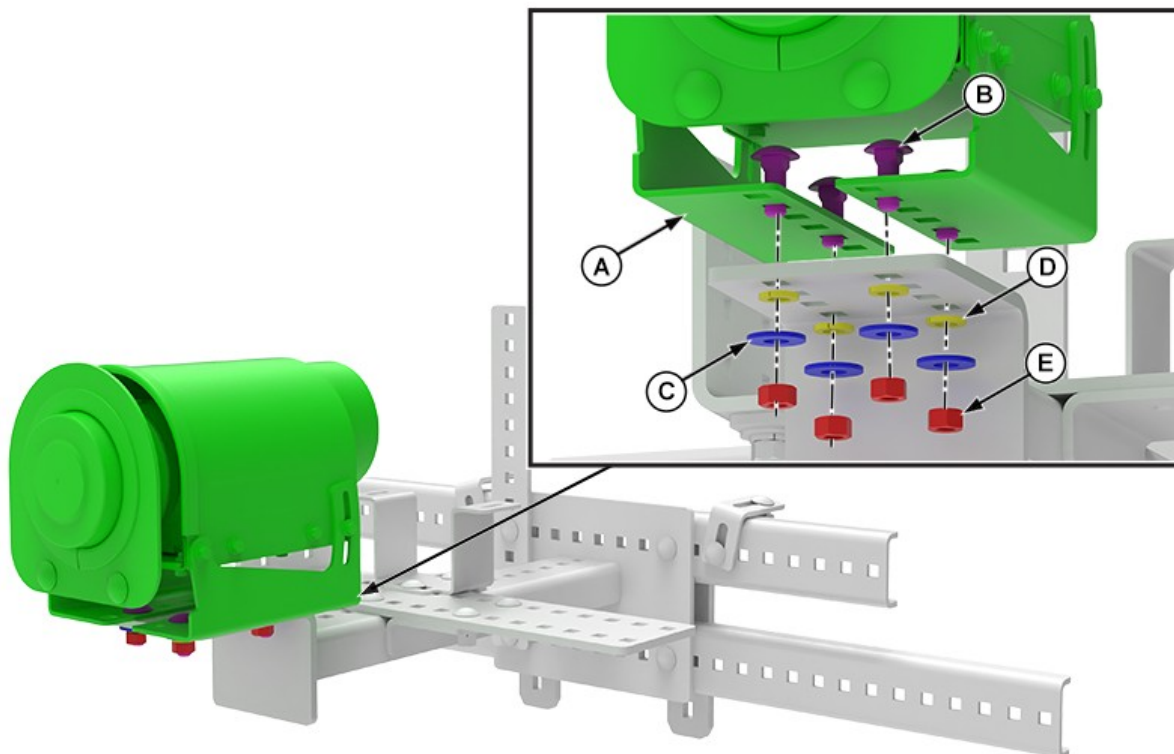
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Parts required for this step			
Identifier	Part Number	Description	Quantity
A	1000040	LiDAR subassembly	1
B	7100462	Bolts	4
C	7100460	Washers	4
D	7100520	Wahers	4
E	7100521	Nuts	4

1. Take the LiDAR subassembly (A) and center above the LiDAR support bracket, secure using bolts (B), washers (C), split washers (D), and nuts (E).  
 NOTE: Use level on the left side of the LiDAR housing to level.

**IMPORTANT:** To ensure performance of the LiDAR, it is crucial that there are no obstructions or moving objects within its vision range.

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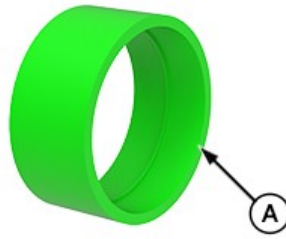


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## Blower Assembly

### Step 1 of 3: Coupler assembly



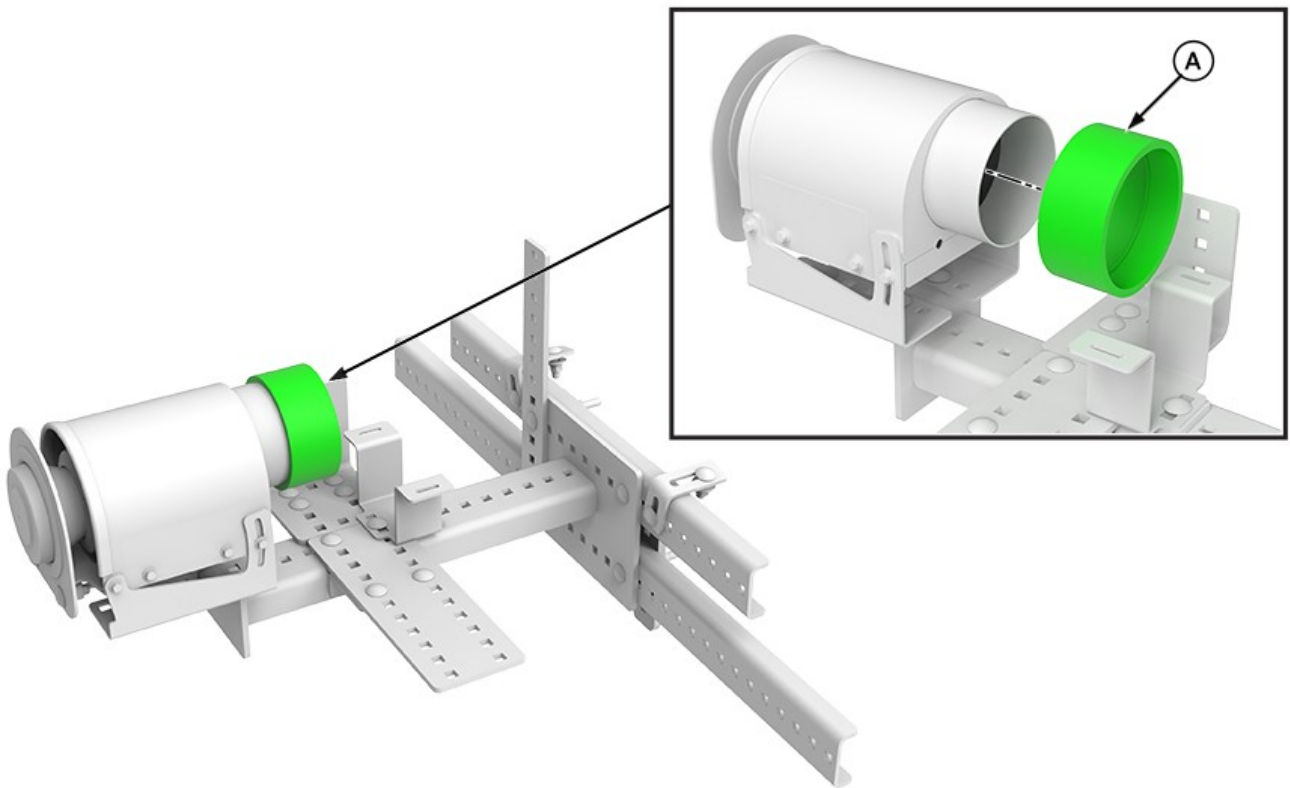
YK130197—UN—28AUG24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	9771	PVC coupler	1

1. Install flexible coupler (A) to the back of the LiDAR.

QT1YERG,1725291455618-19-30JAN25-1/6

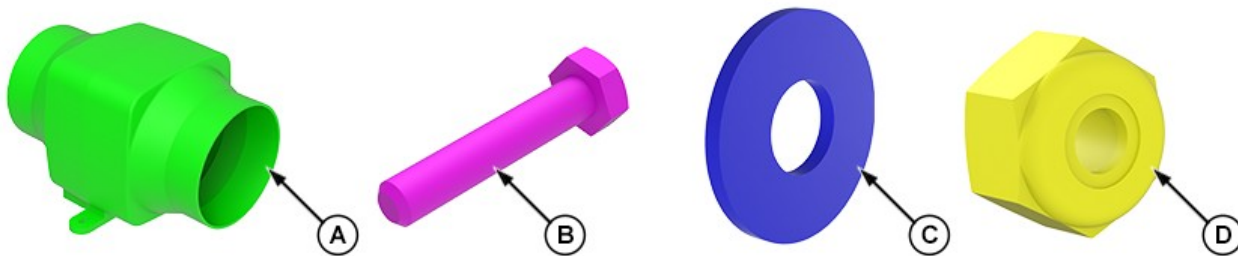


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**Step 2 of 3: Blower assembly**

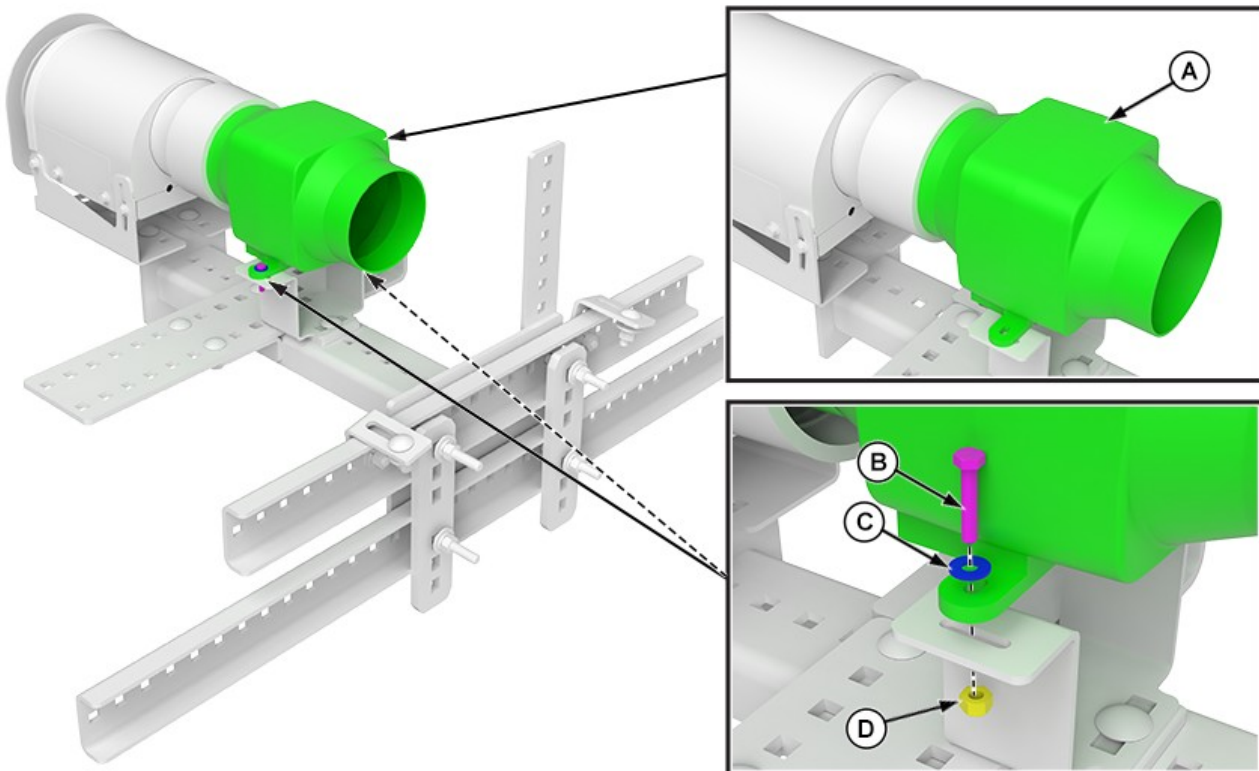


YK130199—UN—28AUG24

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	2000138	Blower	1
B	7100469	Bolts	2
C	7100467	Washers	2
D	7100468	Nuts	2

1. Ensure that the airflow is directed towards the LiDAR by locating the arrow imprinted on the blower.
2. Take blower (A) from blower kit and connect to coupler while aligning the bottom section to its support bracket. Secure using bolts (B), washers (C), and nuts (D).

QT1YERG,1725291455618-19-30JAN25-3/6

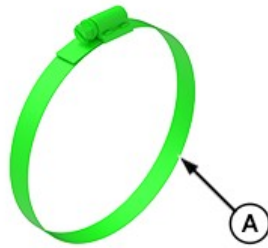


YK130200—UN—28AUG24

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QT1YERG,1725291455618-19-30JAN25-4/6

**Step 3 of 3: PVC coupler installation**



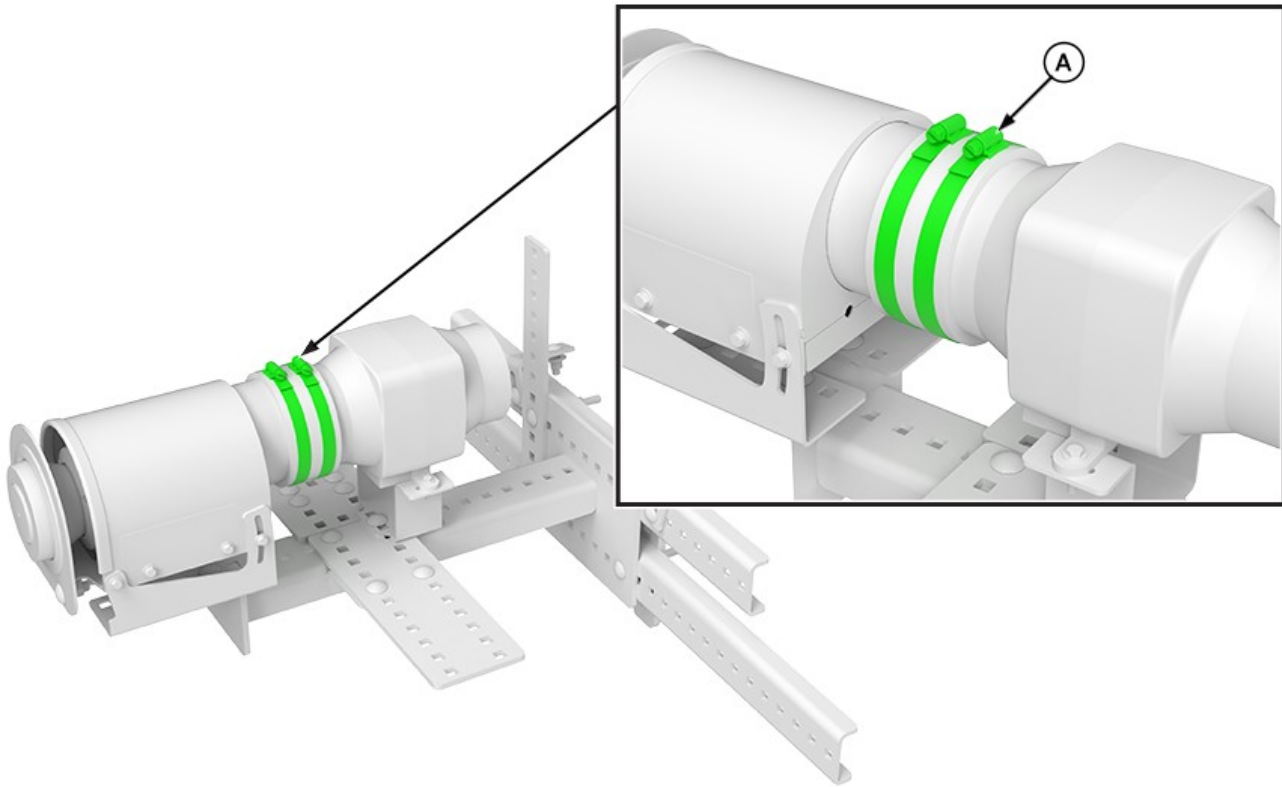
YK130201—UN—28AUG24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100509	PVC coupler	2

1. Secure flexible PVC coupler with clamps (A), one on each side.

QT1YERG.1725291455618-19-30JAN25-5/6



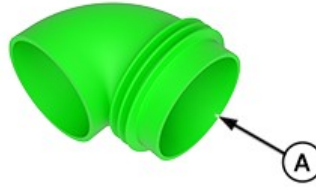
YK130202—UN—28AUG24

QT1YERG.1725291455618-19-30JAN25-6/6



## Air Filter Assembly

### Step 1 of 6: Elbow installation

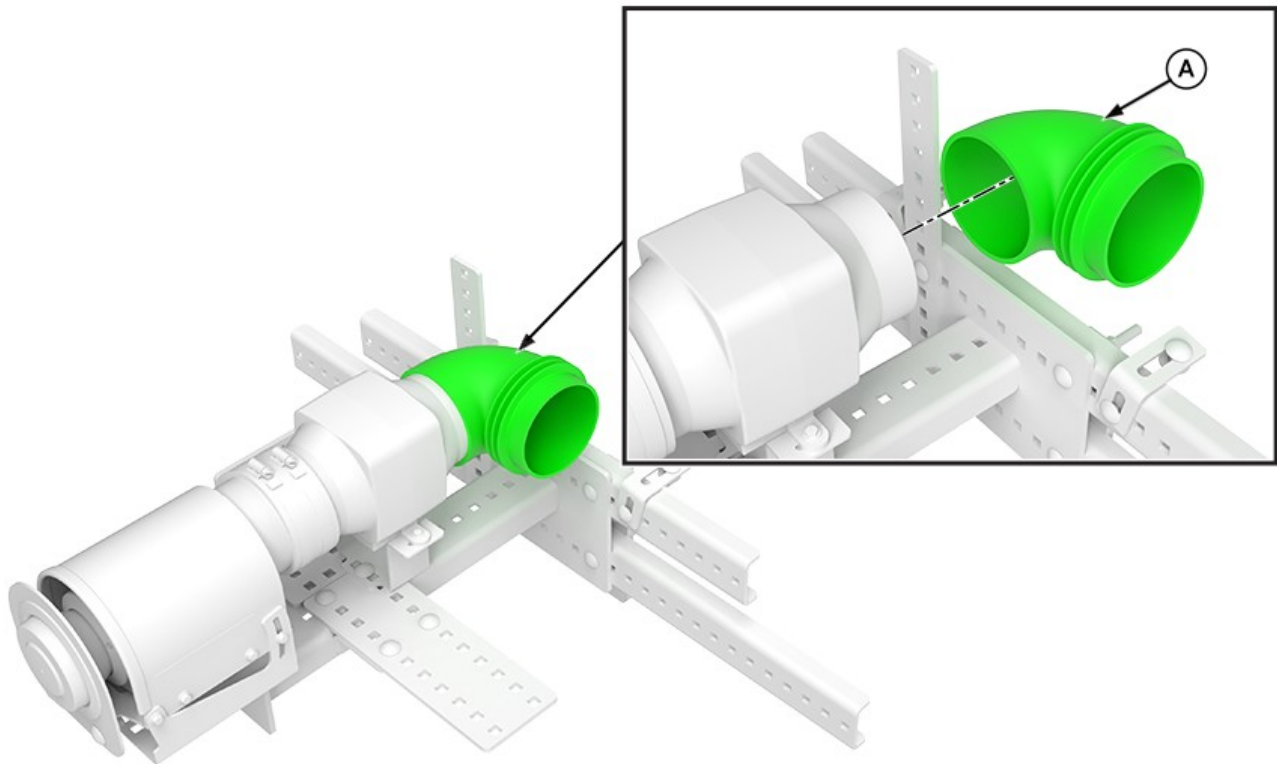


YK131139—UN—12SEP24

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	4200326	Blower Elbow	1

1. Install flexible elbow (A) to the blower using a 45° angle hook to pull and adjust as needed.

QT1YERG,1725983906761-19-28JAN25-1/12

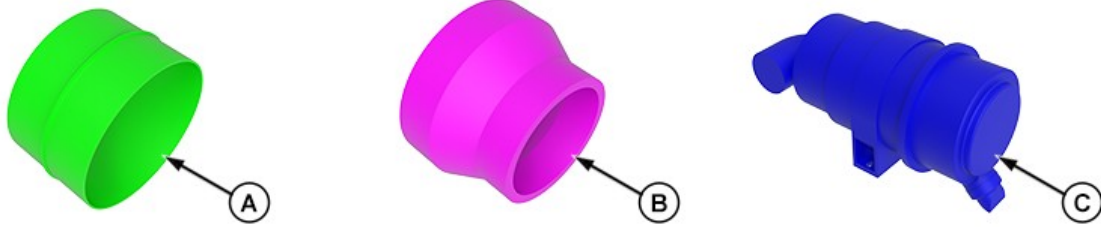


YK131139—UN—12SEP24

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QT1YERG,1725983906761-19-28JAN25-2/12

**Step 2 of 6: Air Filter kit assembly installation**



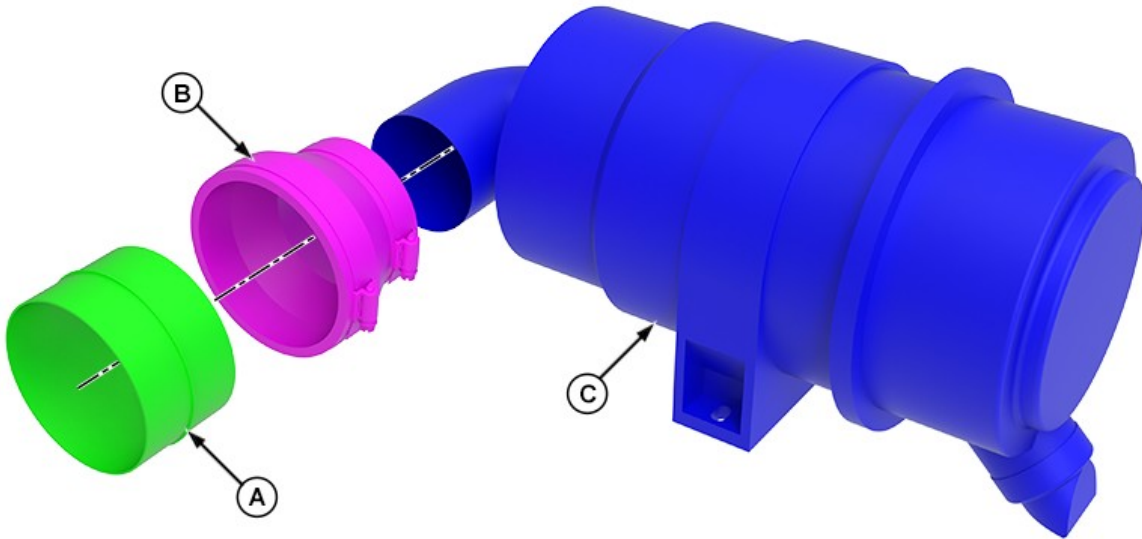
YK131140—UN—12SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	B09STX48RB	Fitting	1
B	4200366	Coupler	1
C	1000044	Air Filter Kit	1

1. Insert plastic fitting (A) into flexible coupler (B) and then connect onto air filter kit (C).

QT1YERG.1725983906761-19-28JAN25-3/12

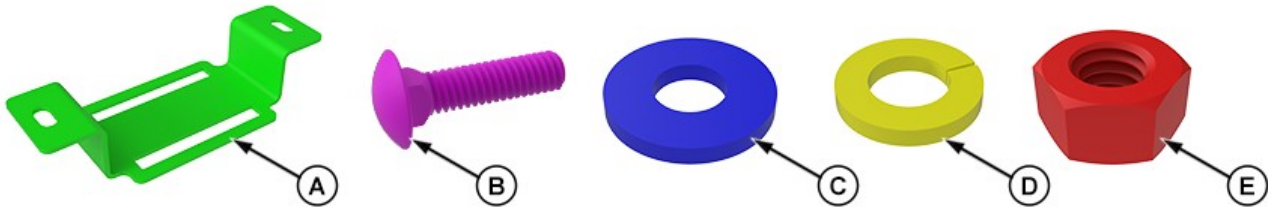


YK131141—UN—12SEP24

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QT1YERG.1725983906761-19-28JAN25-4/12

**Step 3 of 6: Air Filter bracket installation**



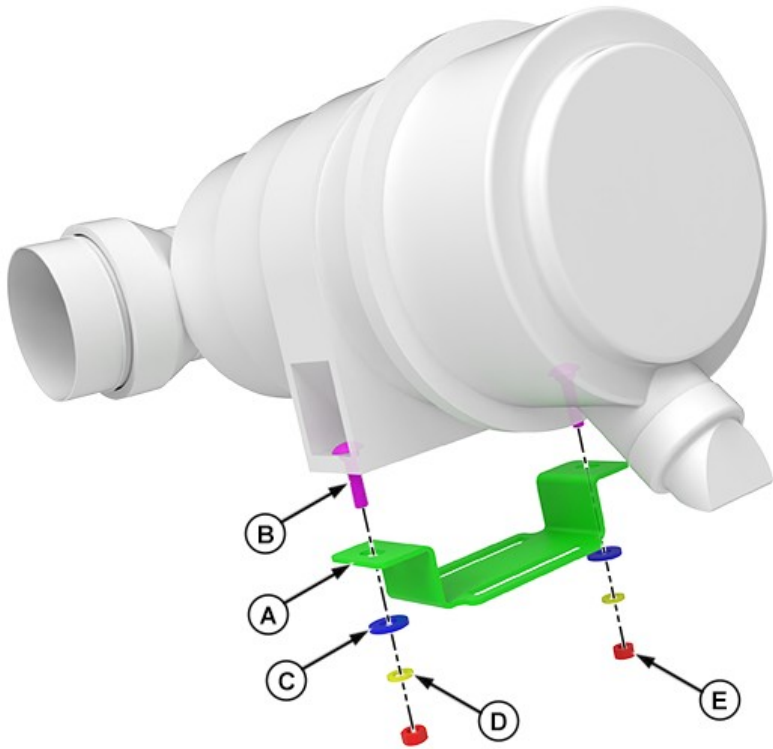
YK131142—UN—12SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100303	Bracket	1
B	93180A325	Bolts	2
C	93852A132	Washers	2
D	92147A030	Washers	2
E	94804A030	Nuts	2

1. Attach bracket (A) onto the air filter base using bolts (B), washers (C), split washers (D), and nuts (E).

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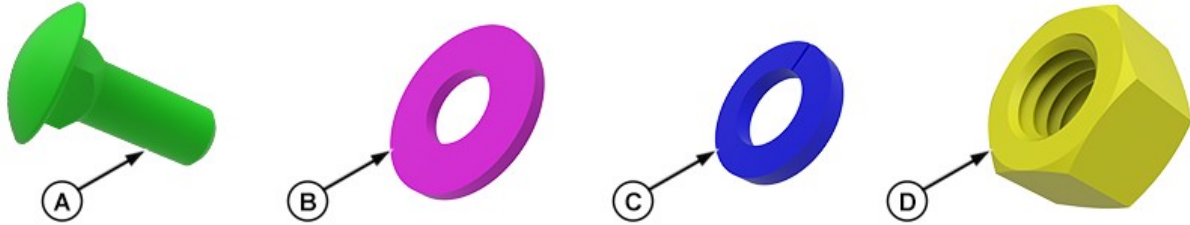


YK131143—UN—12SEP24

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QT1YERG,1725983906761-19-28JAN25-6/12

**Step 4 of 6: Air Filter kit installation**



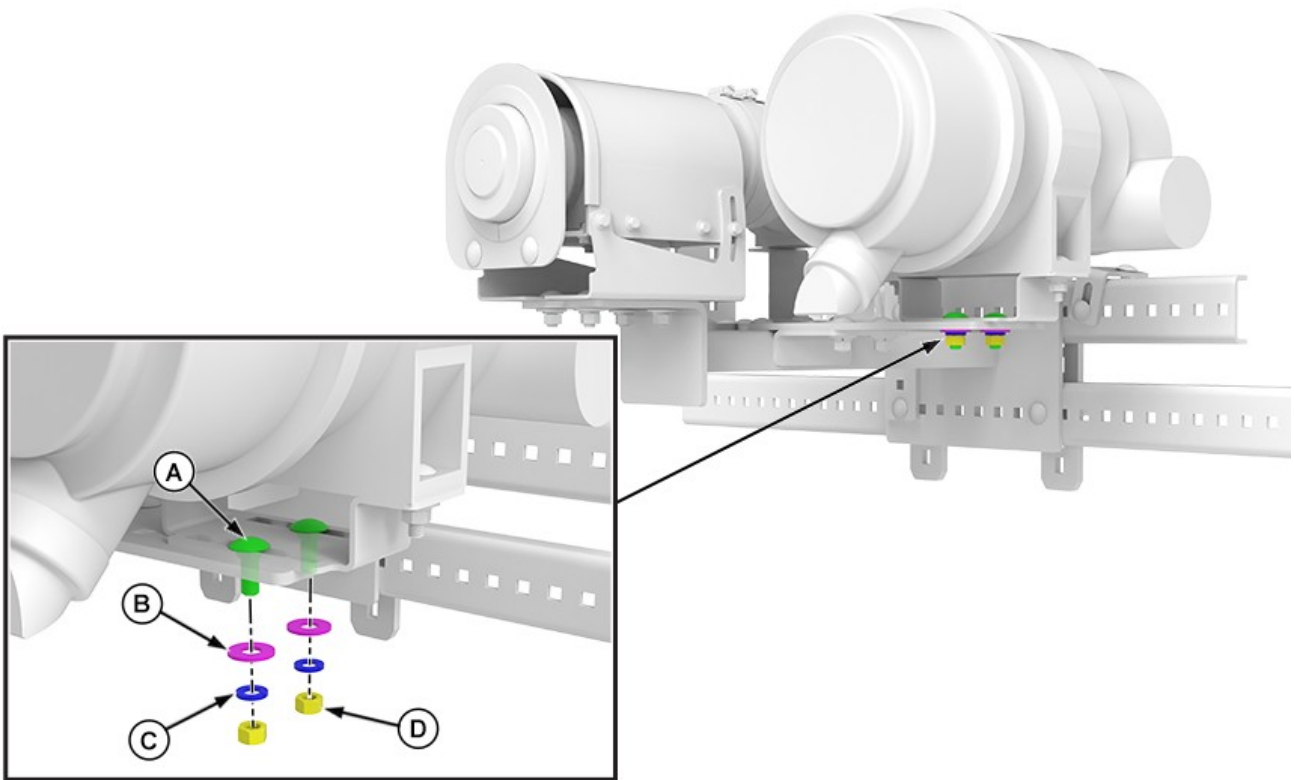
YK131144—UN—12SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100462	Bolts	2
B	7100460	Washers	2
C	7100520	Split washers	2
D	7100521	Nuts	2

1. Secure air filter bracket to tower bracket assembly using bolts (A), washers (B), split washers (C), and nuts (D).

QT1YERG.1725983906761-19-28JAN25-7/12

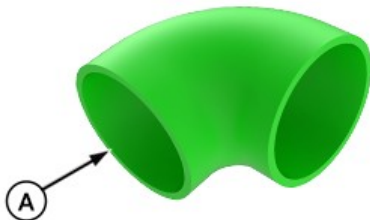


YK131145—UN—12SEP24

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QT1YERG.1725983906761-19-28JAN25-8/12

**Step 5 of 6: Inlet Elbow installation**

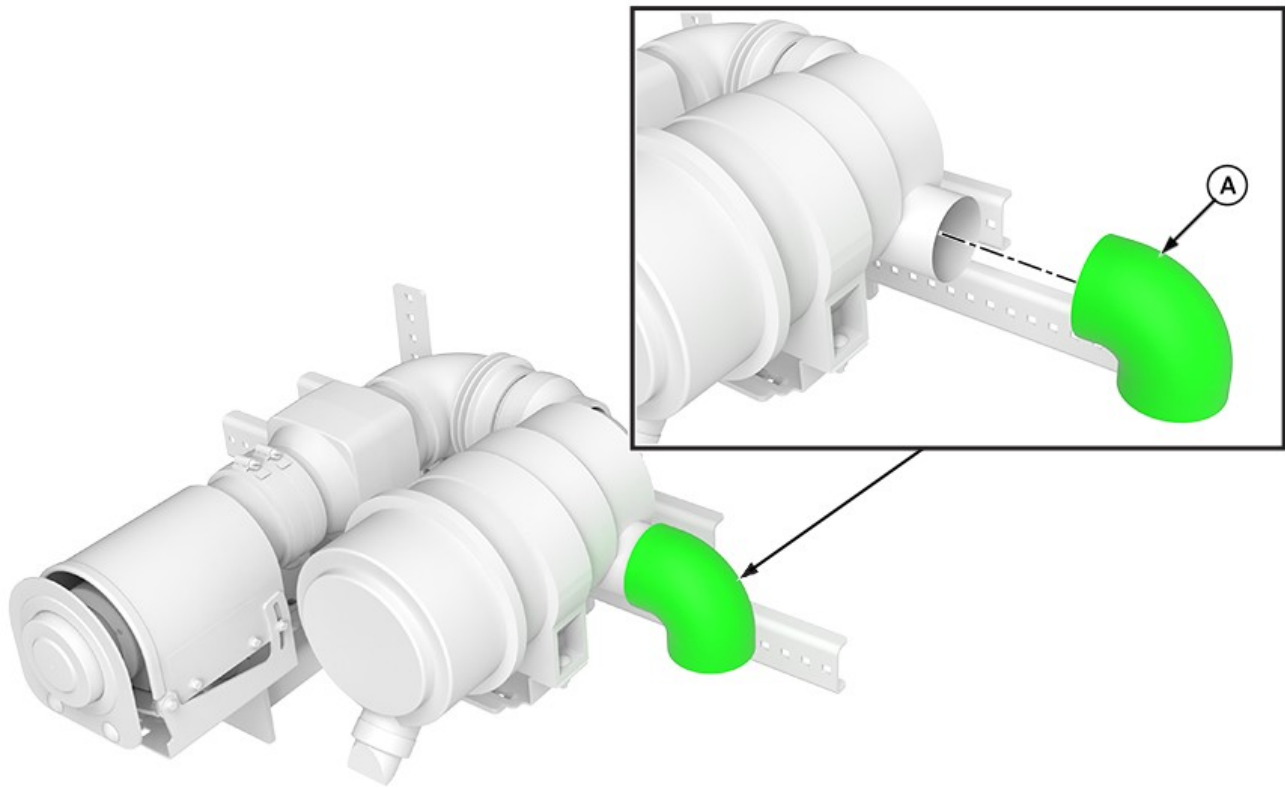


YK131146—UN—12SEP24

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	4200354	Inlet Elbow	1

1. Install 90° elbow (A) onto the air filter facing down.

QT1YERG,1725983906761-19-28JAN25-9/12



YK131147—UN—12SEP24

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QT1YERG,1725983906761-19-28JAN25-10/12

**Step 6 of 6: Clamps installation**



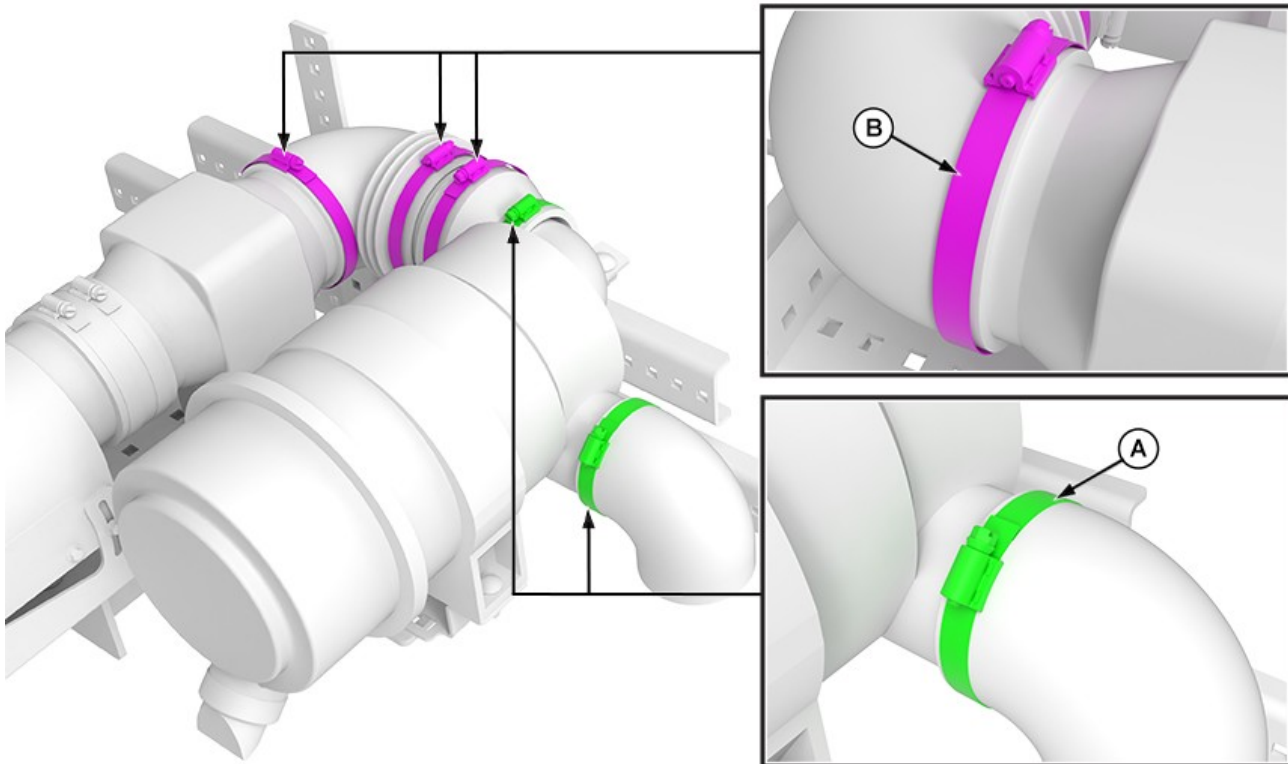
YK131148—UN—12SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100504	Clamps	2
B	7100509	Clamps	3

1. Secure air filter elbows with clamps (A) and flexible elbow with clamps (B).

QT1YERG,1725983906761-19-28JAN25-11/12

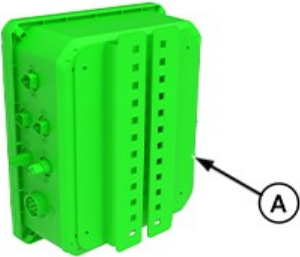


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QT1YERG,1725983906761-19-28JAN25-12/12

**Control Box Assembly**

**Step 1 of 5: Brackets disassembly**

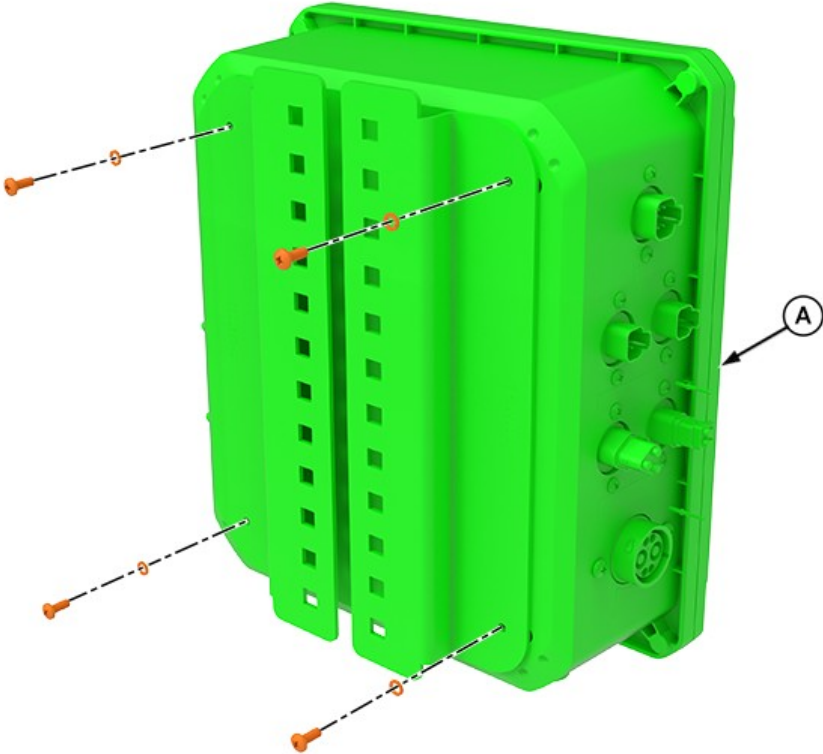


YK130939—UN—15OCT24

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	2000165	Controller box	1

1. Loosen the bolts and washers holding the brackets to the controller box (A) and remove the attached brackets.
- NOTE: These parts will be reinstalled on further step.*

QD3GM42,1724692369904-19-17DEC24-1/10

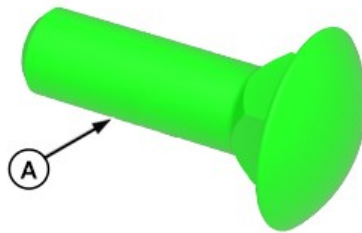


YK130939—UN—15OCT24

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**Step 2 of 5: Control box assembly**



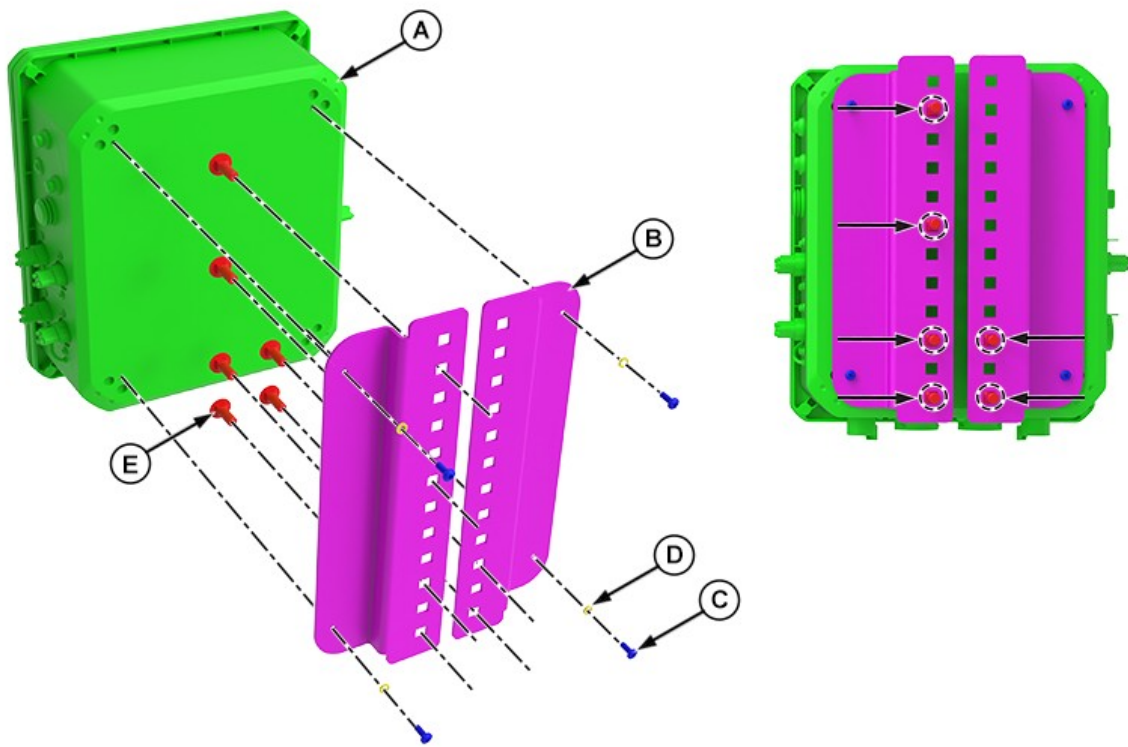
YK129372—UN—15OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100462	Bolt	6

1. Install bolts (A) to previously removed bracket on locations as shown.
2. Reinstall previously removed bolts and washers to secure brackets to controller box.

QD3GM42,1724692369904-19-17DEC24-3/10



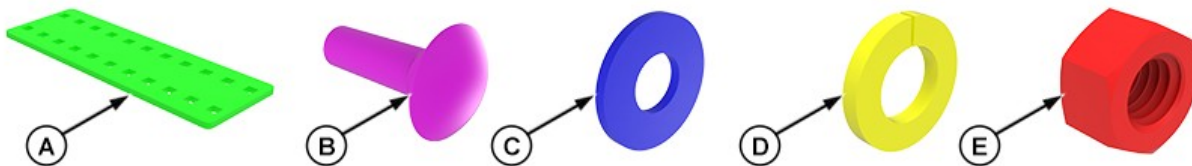
YK129373—UN—30AUG24

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Step 3 of 5: Control box assembly to machine



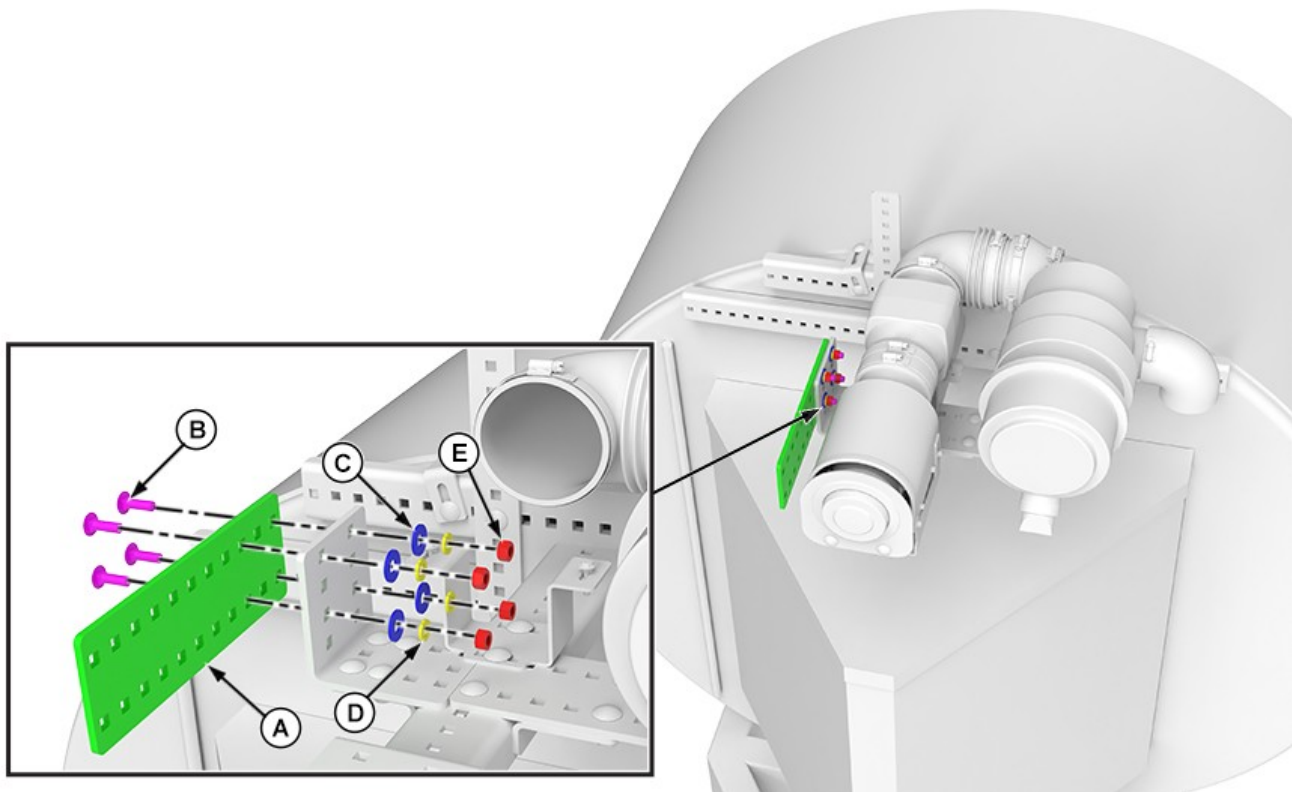
YK129374-UN-29AUG24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100339	Bracket	1
B	7100463	Bolt	4
C	7100460	Washer	4
D	7100520	Split washer	4
E	7100521	Nut	4

1. Install bracket (A) and secure using bolt (B), washers (C), split washers (D), and nuts (E).

QD3GM42,1724692369904-19-17DEC24-5/10

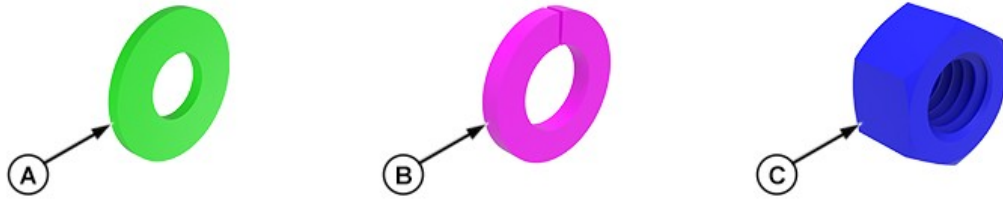


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**Step 4 of 5: Secure control box assembly**



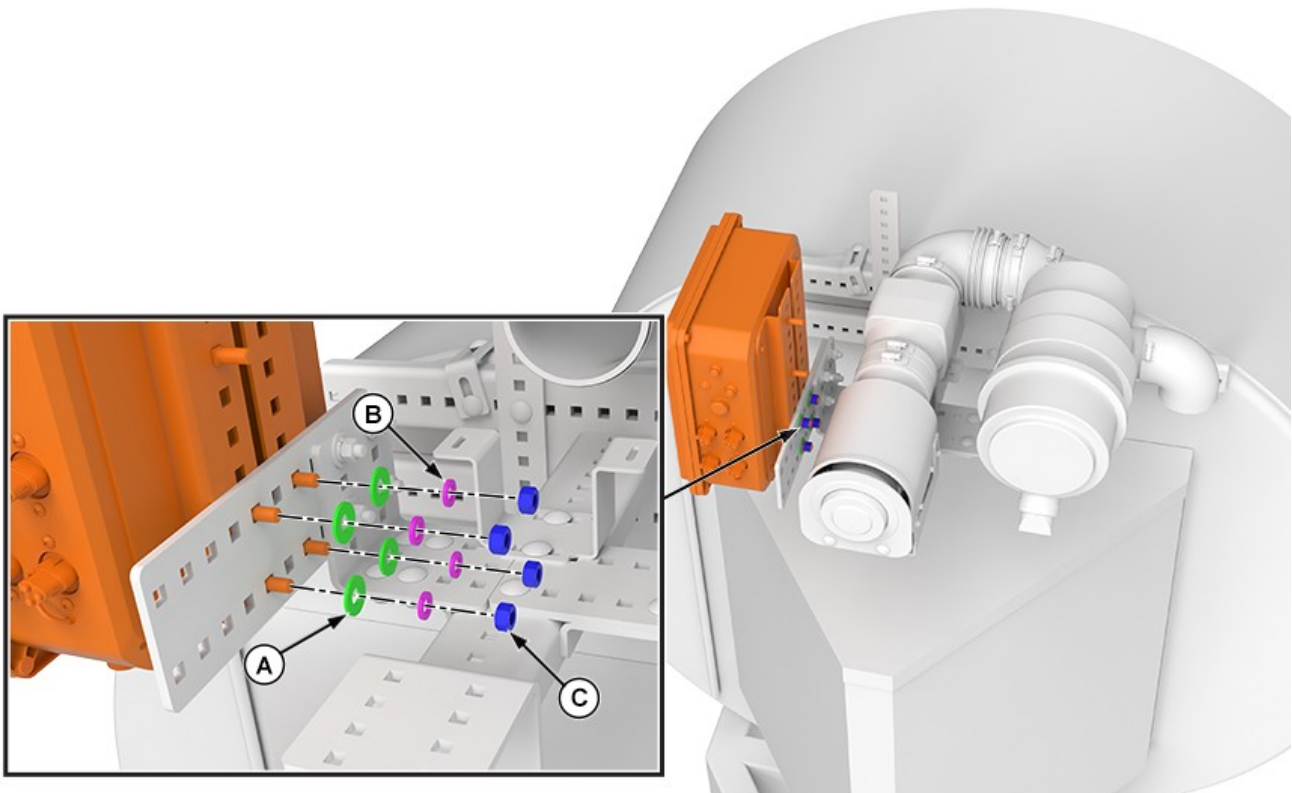
YK129376—UN—29AUG24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100460	Washer	4
B	7100520	Split washer	4
C	7100521	Nut	4

1. Install control box assembly to bracket installed on previous step using washers (A), split washers (B) and nuts (C).

QD3GM42,1724692369904-19-17DEC24-7/10

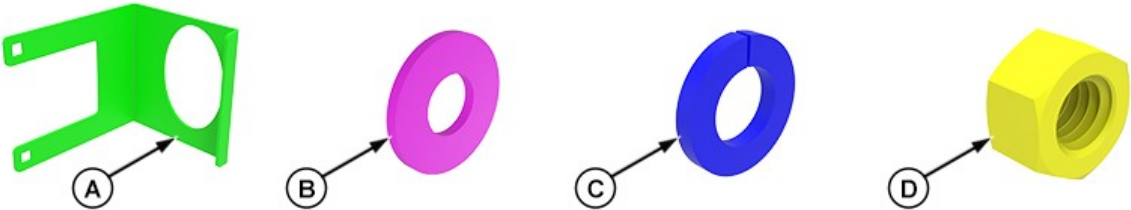


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**Step 5 of 5: Bracket to control box**



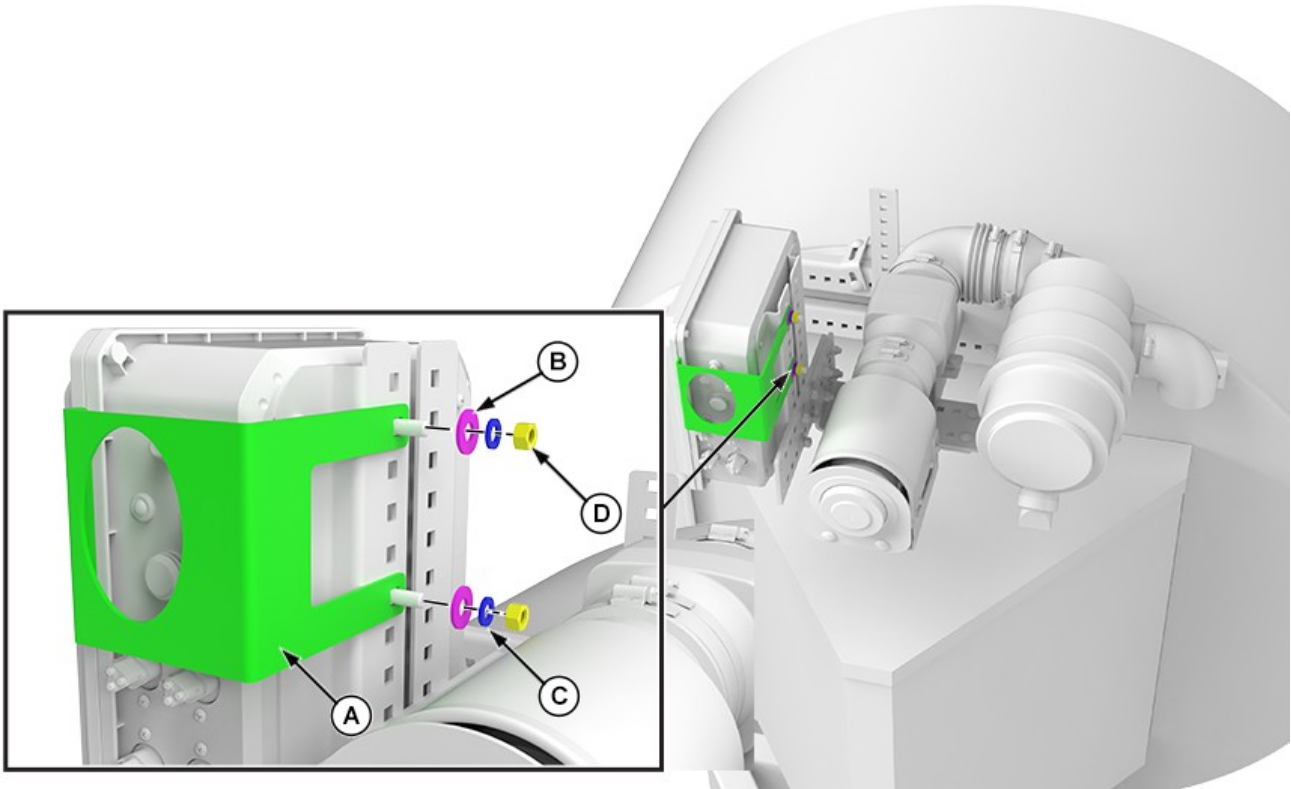
YK129378—UN—29AUG24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100384	Bracket	1
B	7100460	Washer	2
C	7100520	Split washer	2
D	7100521	Nut	2

1. Install bracket (A) to control box using washers (B), split washers (C), and nuts (D).

QD3GM42,1724692369904-19-17DEC24-9/10

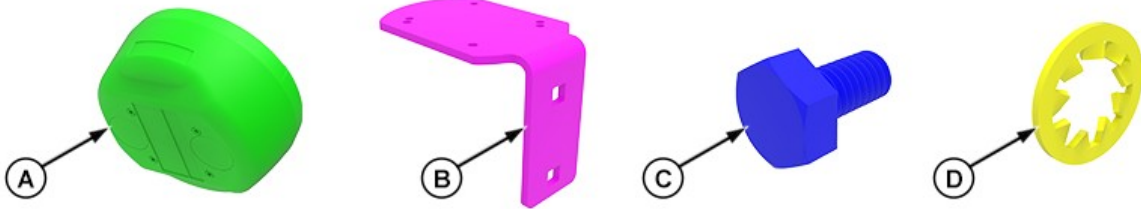


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## GPS Assembly

### Step 1 of 2: GPS assembly



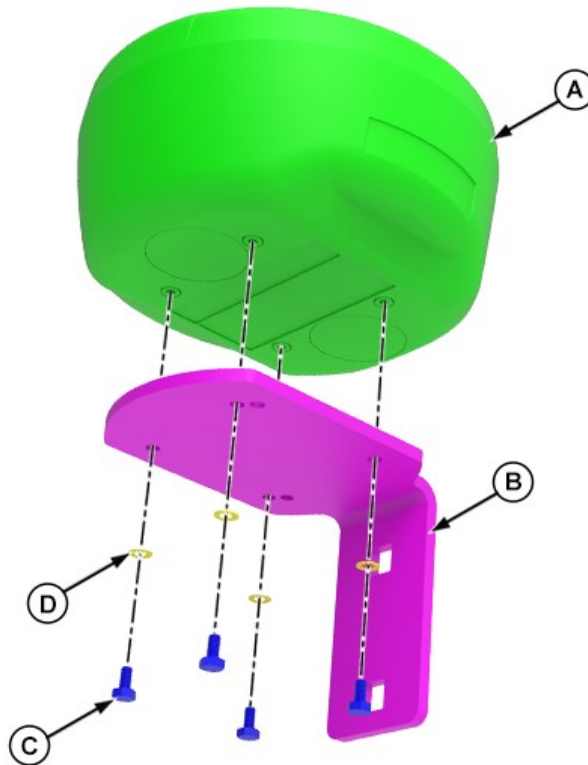
YK129380—UN—29AUG24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	6000132	GPS	1
B	1100263	Bracket	1
C	7100044	Bolt	4
D	7100207	Washer	4

1. Assemble GPS (A) to bracket (B) using bolts (C) and washers (D).

QD3GM42,1724692371904-19-25NOV24-1/4

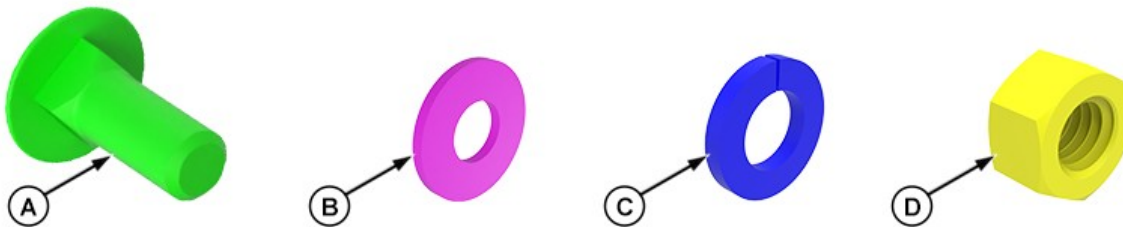


YK129381—UN—29AUG24

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QD3GM42,1724692371904-19-25NOV24-2/4

**Step 2 of 2: GPS assembly to machine**

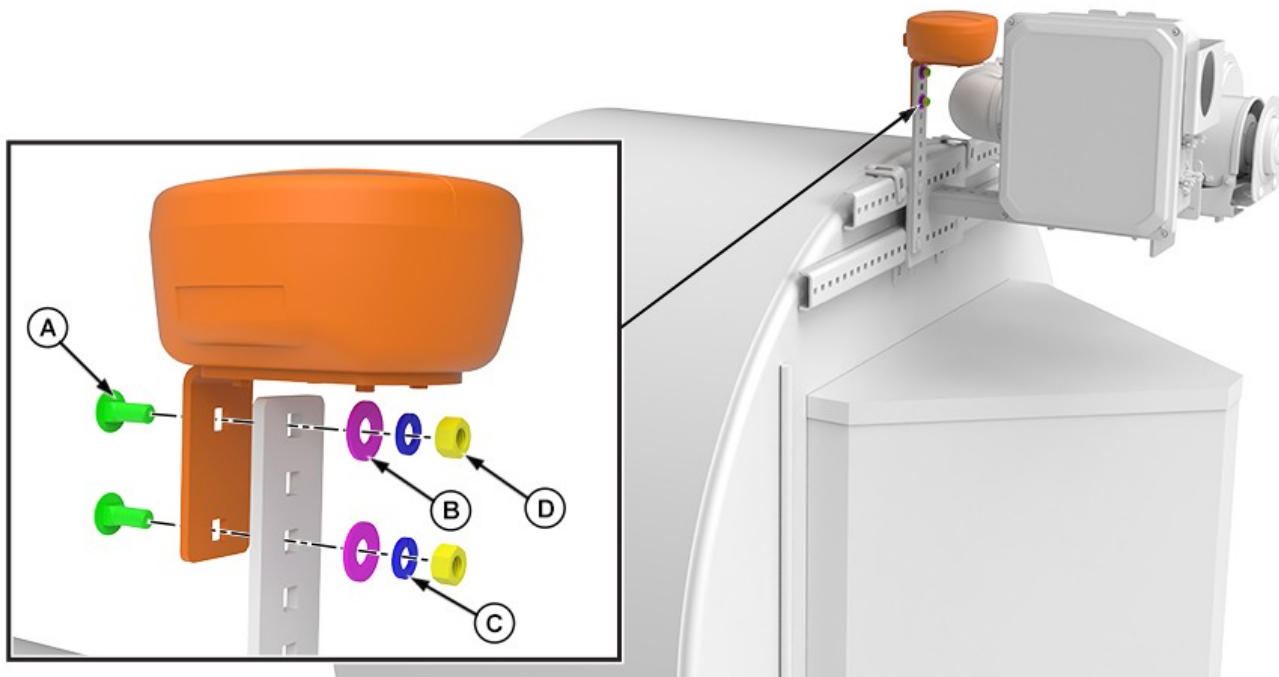


YK129382—UN—29AUG24

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	7100462	Bolt	2
B	7100460	Washer	2
C	7100520	Split washer	2
D	7100521	Nut	2

1. Install GPS assembly from previous step to bracket using bolts (A), washers (B), split washers (C) and nuts (D).

QD3GM42,1724692371904-19-25NOV24-3/4



YK129383—UN—29AUG24

QD3GM42,1724692371904-19-25NOV24-4/4

## Brass Assembly

*NOTE: Identify the locations of the solenoids as specified by the customer or salesperson in the configuration sheet. Install the brass fittings only in those specific boom sections, while capping off the others (caps not supplied by Smart Apply).*

### Step 1 of 3: Hose removal

1. Remove hoses from sprayer.

WVFXMED,1725453190753-19-16JAN25-1/6

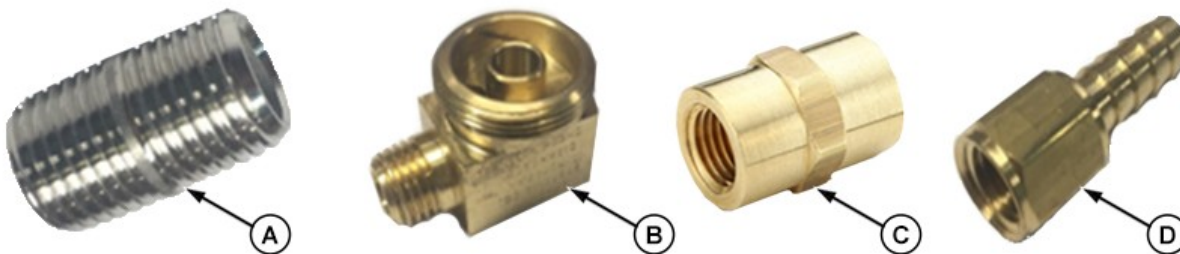


YK130956—UN—09SEP24

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WVFXMED,1725453190753-19-16JAN25-2/6

**Step 2 of 3: Brass components assembly**



YK133940—UN—02DEC24

Parts required for this step		
Identifier	Part Number	Description
A	4200376	1/4" nipple
B	4200016	Valve
C	4200342	1/4" union
D	5346K35	Fitting

1. Apply Teflon tape to the male threaded section of parts (A) and (B).
2. Connect nipple (A) and union (C) to valve (B) and repeat.
3. Connect fitting (D) onto nipple (A) previously installed.

WVFXMED,1725453190753-19-16JAN25-3/6



YK133941—UN—02DEC24

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WVFXMED,1725453190753-19-16JAN25-4/6

*Horizontal Assembly That Attaches to the Front of the Sprayer*

**Step 3 of 3: Brass subassemblies installation**

1. Remove existing sprayer hoses and apply Teflon tape or use sealant paste to your own discretion in the boom male coupler.
2. Install brass subassemblies to boom with the valves towards the center.

WVFXMED,1725453190753-19-16JAN25-5/6

①



②



YK130958—UN—09SEP24

WVFXMED,1725453190753-19-16JAN25-6/6



## Solenoids Assembly

### Step 1 of 4: Solenoid installation



YK130829-UN-02DEC24

Parts required for this step		
Identifier	Part Number	Description
A	4100022	Solenoid
B	1100258	Wrench

1. Identify the installation position of the solenoid (A), ensuring the connector is facing either up or down.

*NOTE: Ideally the solenoid will be above the line to ensure it drains effectively by gravity when not in use.*

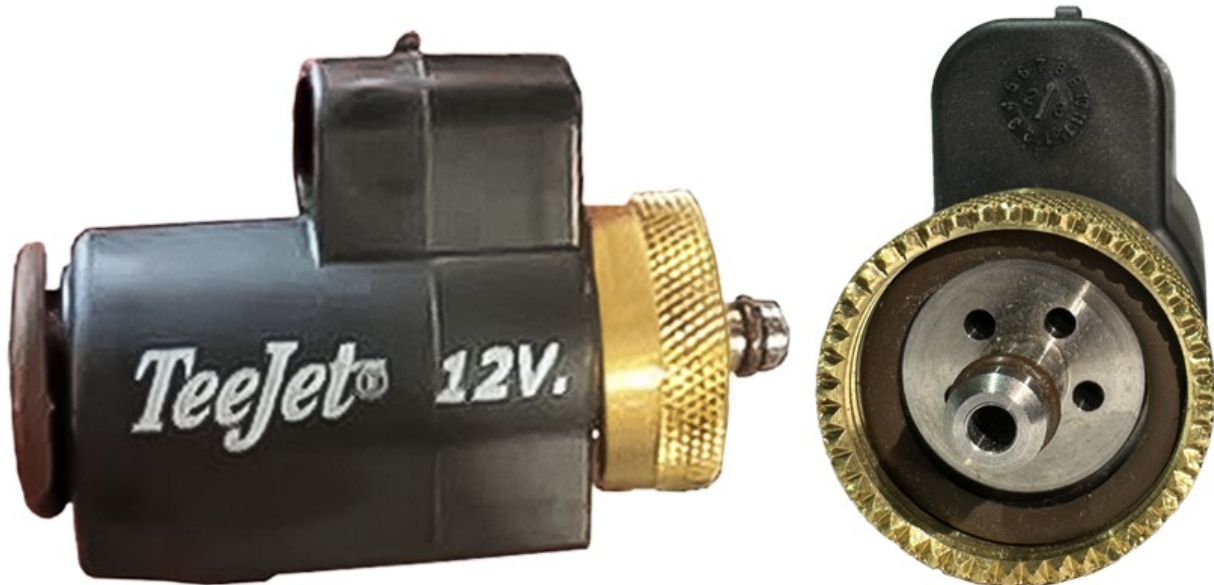
2. If the solenoid is positioned above the line, use wrench (B) to loosen the solenoid tube while holding the nylon nut in place with another wrench.

3. Remove the solenoid body, rotate 180° inside the coil, and install nut.

4. Locate the O-ring on the nylon nut, remove it and install it inside the brass ring.

*NOTE: These steps should be followed for all solenoids.*

QD3GM42,1732631415260-19-03JAN25-1/8



YK130830-UN-08JAN25

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QD3GM42,1732631415260-19-03JAN25-2/8

**Step 2 of 4: Solenoids to valve**



YK130831—UN—02DEC24

Parts required for this step		
Identifier	Part Number	Description
A	7100487	O-ring lubricant

1. Apply O-ring lubricant (A) to the outside surface of the small O-ring.
2. Connect the solenoids to the valve, ensuring that the connector is oriented towards the outside of the sprayer.

QD3GM42,1732631415260-19-03JAN25-3/8



YK133942—UN—02DEC24

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QD3GM42,1732631415260-19-03JAN25-4/8

**Step 3 of 4: Hose installation**



YK133943-UN-02DEC24

Parts required for this step		
Identifier	Part Number	Description
A	5011T171	Clamp

- 1. Install a new hose section between the sprayer nipple and brass fitting and secure with one clamp (A) on each side.
- 2. Repeat for all nozzles.

QD3GM42,1732631415260-19-03JAN25-5/8

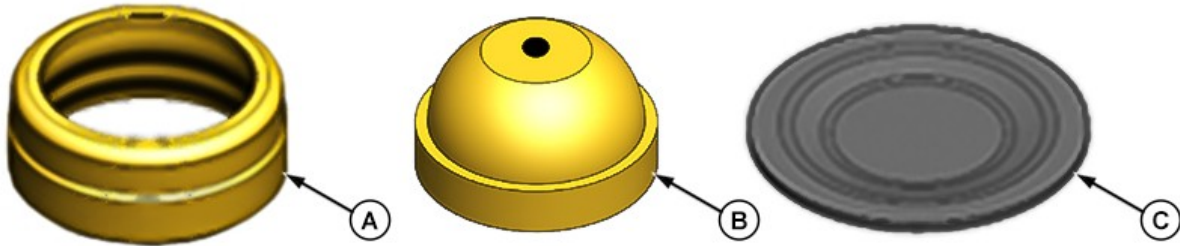


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**Step 4 of 4: Check valve installation for inactive nozzles**



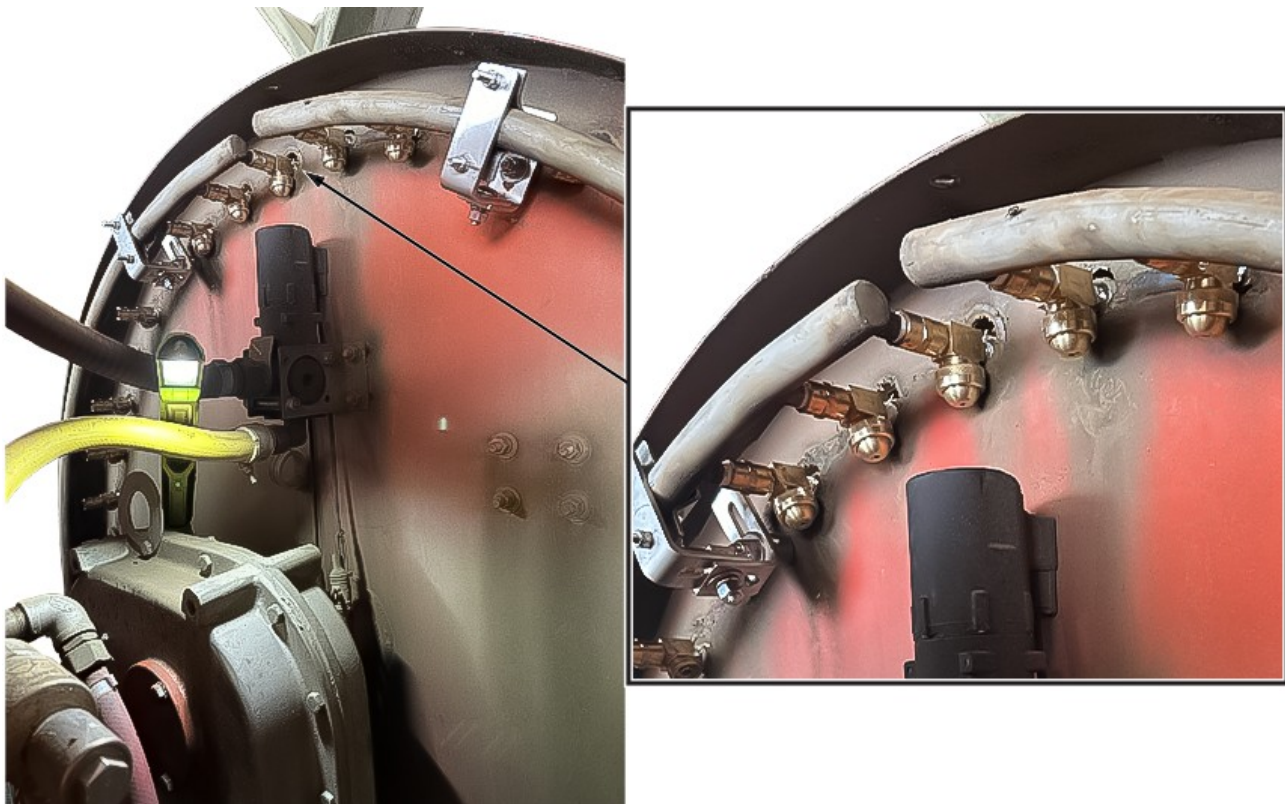
YK129397—UN—08JAN25

Parts required for this step

Identifier	Part Number	Description
A	CP4624	Threaded ring
B	9758	Check valve
C	CP4620	Gasket

1. Identify the nozzles that are not being used and install threaded ring (A) and check valve (B) with gasket (C) in between.

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YK134005—UN—12DEC24

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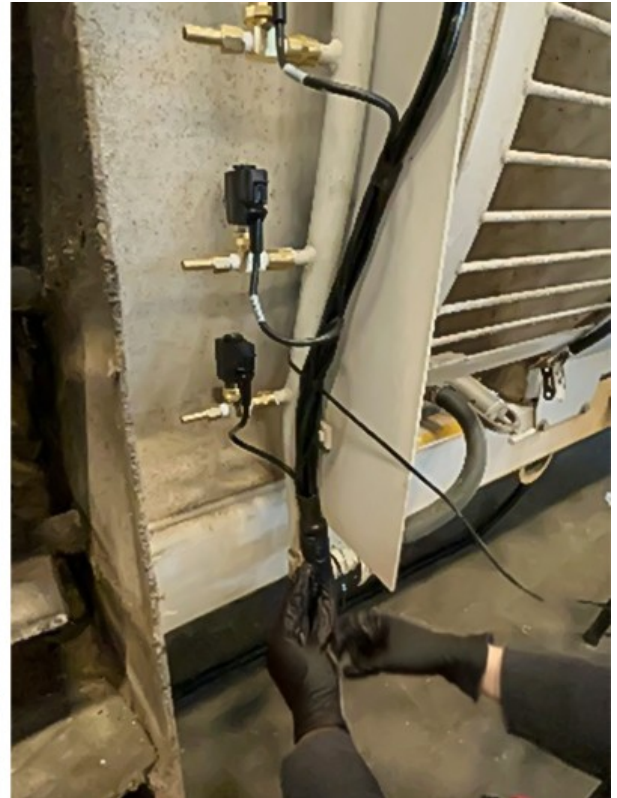
## Harness Routing

### Step 1 of 5: Harness to solenoids

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	6100130	Nozzle harness	2

1. Connect left and right-side nozzle potted nozzle harness (A) terminal to the solenoids beginning from the bottom and working your way up.
2. Secure harness with tie bands.

QD3GM42,1724851859882-19-16JAN25-1/10



YK129384—UN—08JAN25

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QD3GM42,1724851859882-19-16JAN25-2/10

Horizontal Assembly That Attaches to the Front of the Sprayer

**Step 2 of 5: Harness extension routing**

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	6100117	Nozzle harness extensions	2

1. Route harness extensions (A) inside the sprayer compartment and under the sprayer frame.

*NOTE: Make sure there is enough distance from the control box to the rear sprayer compartment.*

QD3GM42,1724851859882-19-16JAN25-3/10



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QD3GM42,1724851859882-19-16JAN25-4/10

**Step 3 of 5: Harness extensions connection**

1. Connect harness extension to the nozzle potted harness.
2. Connect harness extension to controller box.

QD3GM42,1724851859882-19-16JAN25-5/10



YK129386—UN—16SEP24

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QD3GM42,1724851859882-19-16JAN25-6/10

**Step 4 of 5: Battery harness connection**

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	6100111	Power harness	1
B	6100185	Battery harness extension	1

1. Connect power harness(A) to the battery inside the sprayer compartment when available. Use battery harness extension (B) when connecting to the tractor's battery.
2. Route the harness from the battery to the control box, ensuring it avoids any moving parts. Follow the existing path of the tractor harnesses to the battery for proper installation.

QD3GM42,1724851859882-19-16JAN25-7/10



YK129387—UN—08.JAN25

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QD3GM42,1724851859882-19-16JAN25-8/10



**Step 5 of 5: Harnesses connections**

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	6100110	Antenna harness	1
B	6100134	Antenna harness extension	1
C	6100123	LiDAR harness	1
D	6100127	Power extension harness	1

1. Connect one plug of wiring harness (A) to GPS antenna and the other plug to the controller box. Use harness extension (B) if needed.
2. Connect one plug of harness extension (C) to LiDAR harness and the other plug to the controller box.
3. Connect one plug of harness extension (D) to the blower/fan harness and the other plug to the controller box.

QD3GM42,1724851859882-19-16JAN25-9/10



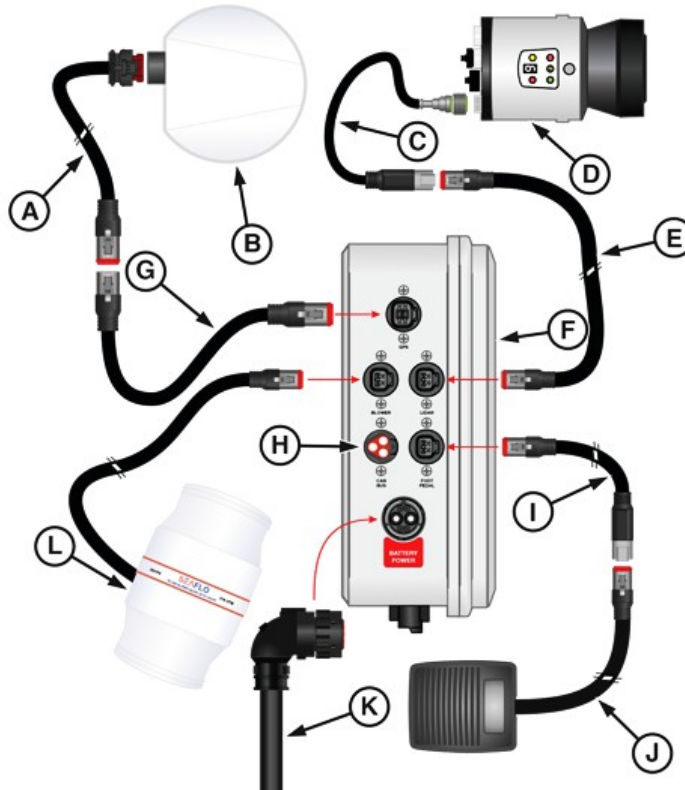
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QD3GM42,1724851859882-19-16JAN25-10/10

## Electrical Diagram

Refer to the diagram below to identify the correct connections for each harness to the control box.

HL70592,1737150340827-19-27JAN25-1/2



YK135244—UN—23JAN25

Parts required for this step

Identifier	Part Number	Description	Identifier	Part Number	Description
A	6100110	GPS antenna harness	G	6100134	GPS extension harness
B	6000132	GPS antenna	H	-	CAN BUS is to connect a second controller
C	6100126	LiDAR power harness	I	6100132	Foot pedal extension
D	6000047	LiDAR	J	6100075	Foot pedal switch
E	6100123	LiDAR power extension	K	6100185	Battery extension
F	2000165	Gen 2 control enclosure	L	2000138	LiDAR blower

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## Liquid Filter Kit

*NOTE: It is recommended to have two stages of filtration in the system. If there is already a filter on the boom, you may not need to install the additional filter shown in this section.*

### Step 1 of 1: Strainer installation

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	4200195	Strainer	1
B	4200188	Hose barb to 3/4 inch	2
C	4200194	Hose barb to 1 inch	2
D	7100348	Clamp	2

1. Locate the boom lines and cut a section of hose to fit strainer (A).
2. Install one end of hose barb (B) or (C) on each side of the strainer (A), and connect the other end of the hose barb to the previously cut boom lines.
2. Secure the connection between the strainer and the boom line using clamps (D).

*NOTE: Choose the appropriate hose barb (B) or (C) from list according to the hose size.*

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