

Vertical Tower Assembly That Attaches to the Sprayer Structural Frame

Smart  **Apply**[®]
Intelligent Spray Control System[™]



INSTALLATION INSTRUCTIONS

Vertical Tower Assembly That Attaches to the Sprayer Structural Frame

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Precision Upgrades
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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.

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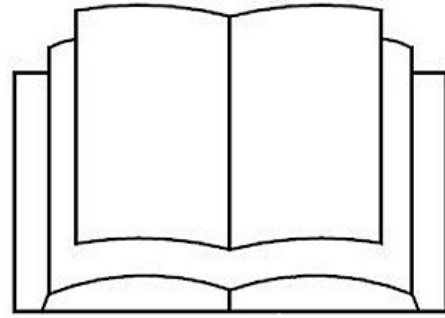
Introduction

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

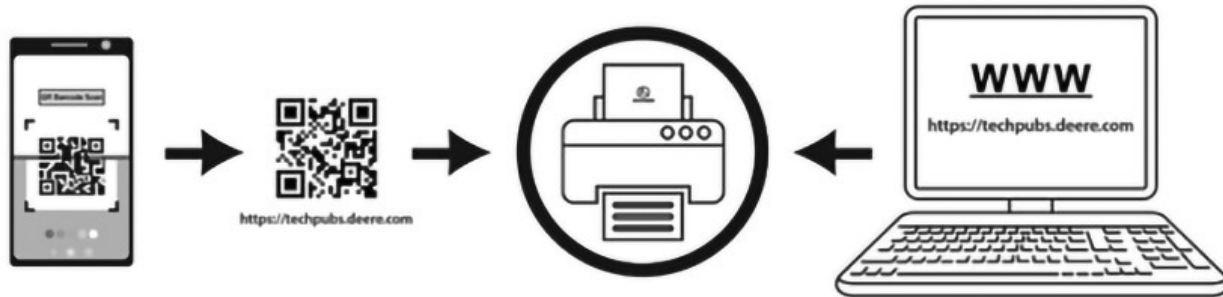
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Trademarks

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



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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.



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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

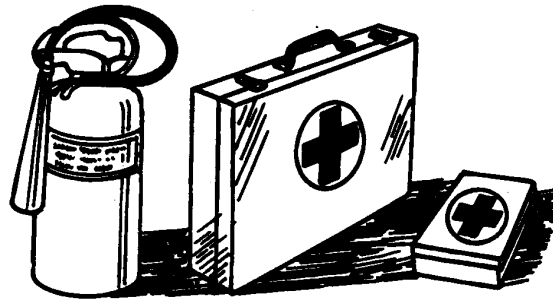
DX,SIGNS1-19-04JUN90-1/1

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.



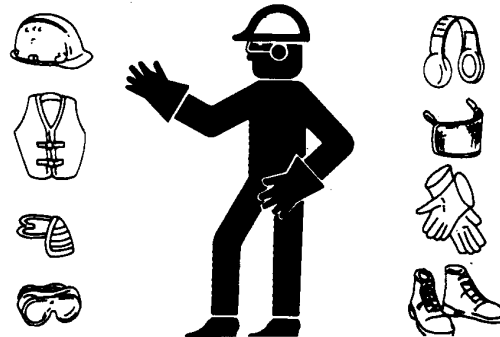
TS291—UN—15APR13

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.



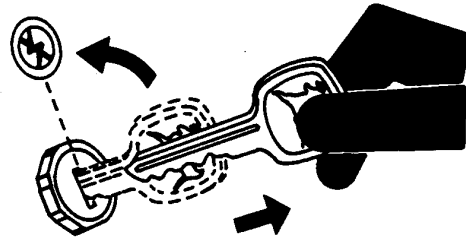
TS218—UN—23AUG88

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.



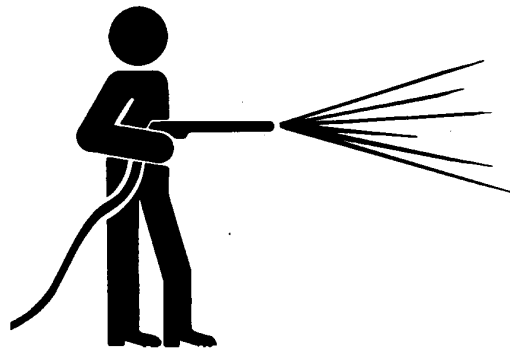
TS230—UN—24MAY89

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.



T6642EJ—UN—18OCT88

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.

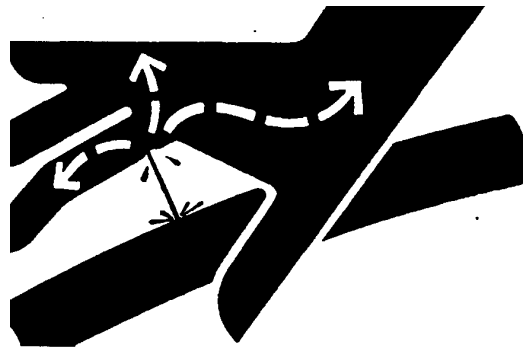
Replace worn or damaged hose assemblies immediately with approved replacement parts.

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



X9811—UN—23AUG88

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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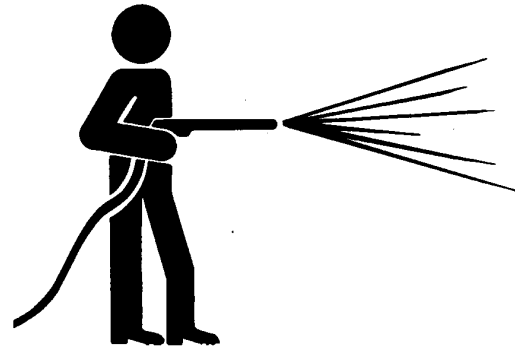
Clean Vehicle of Hazardous Chemicals, Including Pesticides

⚠ 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.



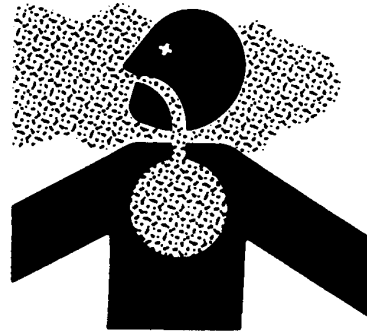
TS779—UN—08NOV89

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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.

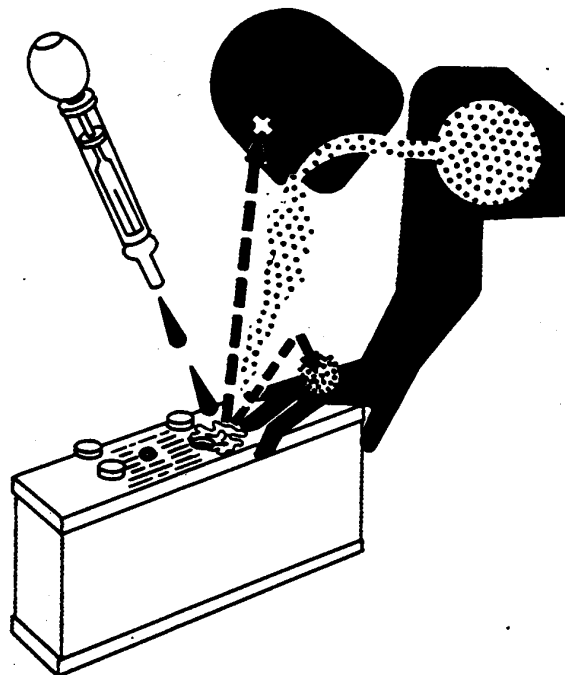
If acid is swallowed:

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

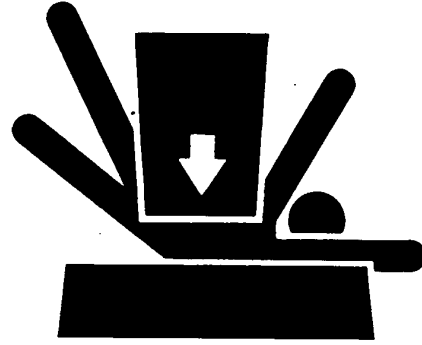
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Support Machine Properly

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.



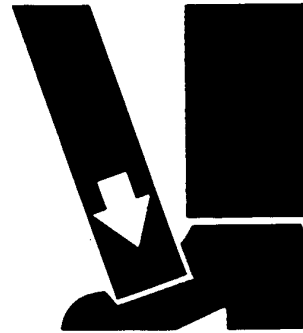
TS229—UN—23AUG88

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.



TS226—UN—23AUG88

DX,LIFT-19-20DEC24-1/1

Vertical Tower Assembly That Attaches to the Sprayer Structural Frame

Bracket Frame Assembly

NOTE: If the top 2 holes are available, you may use them to skip steps 1 and 2.

Step 1 of 6: Hitch bolts removal

1. Support machine properly.
2. Locate and remove sprayer to hitch bolts.

NOTE: Remove accessories or weights blocking the bolts except from mixing tanks.

⚠ CAUTION: 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 these instructions.

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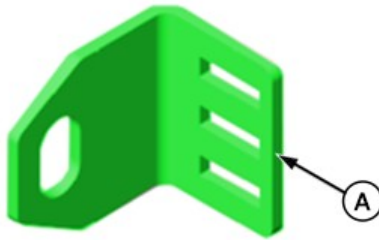
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YK133352—UN—30OCT24

Step 2 of 6: Mount bracket installation



Parts required for this step			
Identifier	Part Number	Description	Quantity
A	1100296	Mount bracket	4

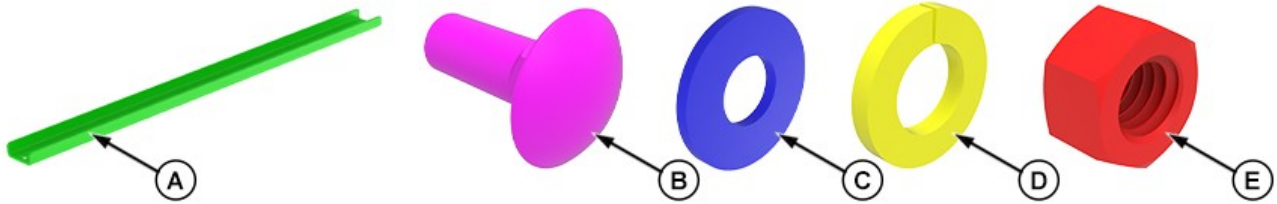
1. Install mount bracket (A) to the sprayer using the existing bolts and hardware.

NOTE: Do not tighten or hand tighten only to leave room for further adjustment in the next steps.

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Step 3 of 6: LH and RH frame bracket installation



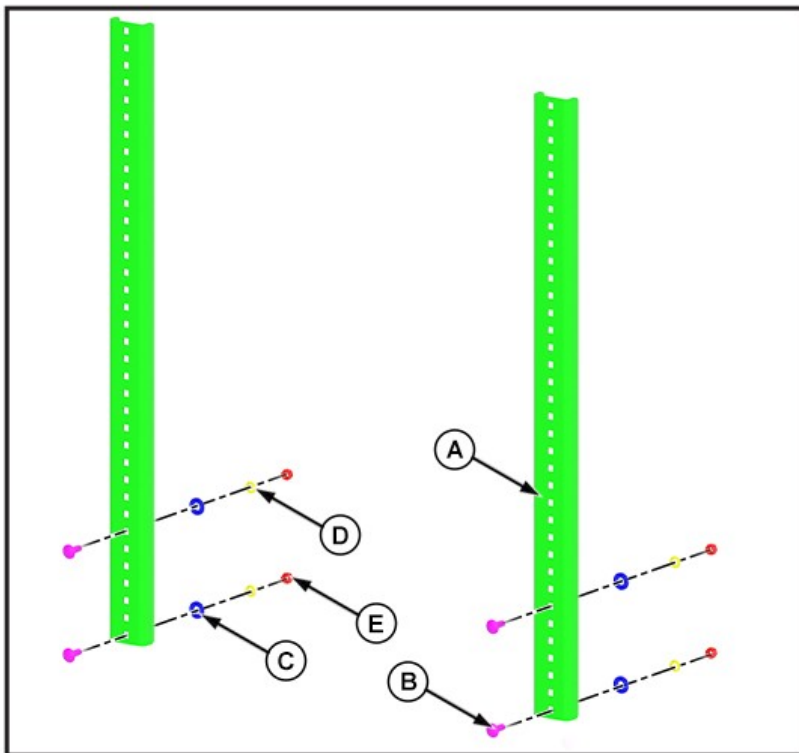
YK133353—UN—30OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100266	Bracket	2
B	7100462	Bolt	4
C	7100460	Washer	4
D	7100520	Split washer	4
E	7100521	Nut	4

1. Take tower bracket (A) and align the bottom end to the bottom mount bracket and assemble using bolts (B), washers (C), split washers (D), and nuts (E).

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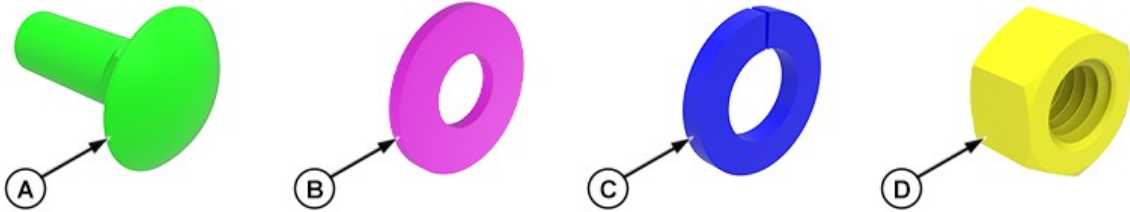


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Step 4 of 6: LH and RH bracket to frame bracket



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Parts required for this step

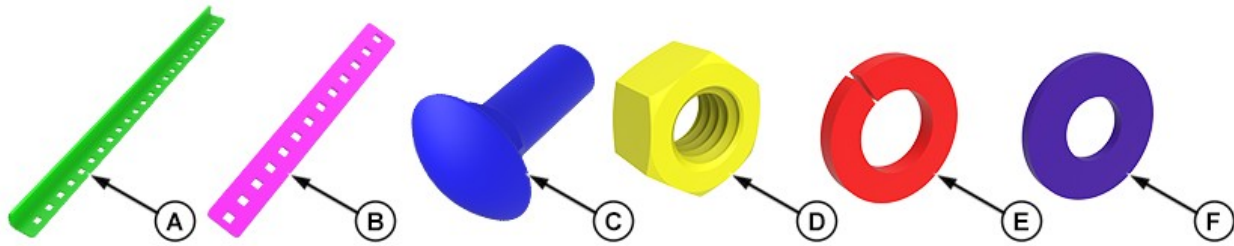
Identifier	Part Number	Description	Quantity
A	7100462	Bolt	4
B	7100460	Washer	4
C	7100520	Split washer	4
D	7100521	Nut	4

1. Align top mount bracket to the frame bracket and assemble using bolts (A), washers (B), split washers (C), and nuts (D).

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QD3GM42,1730815608325-19-28JAN25-6/10

Step 5 of 6: Brackets installation



YK133355—UN—08JAN25

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100278	Bracket	2
B	1100305	Bracket	1
C	7100463	Bolt	2
D	7100521	Nut	4
E	7100520	Split washer	4
F	7100460	Washer	4

1. Locate slots #1 and 3 on the frame brackets and install brackets (A) and (B) in slots # 2 and # 18, counting from the right side. Secure using bolts (C), nuts (D), split washers (E), and washers (F).

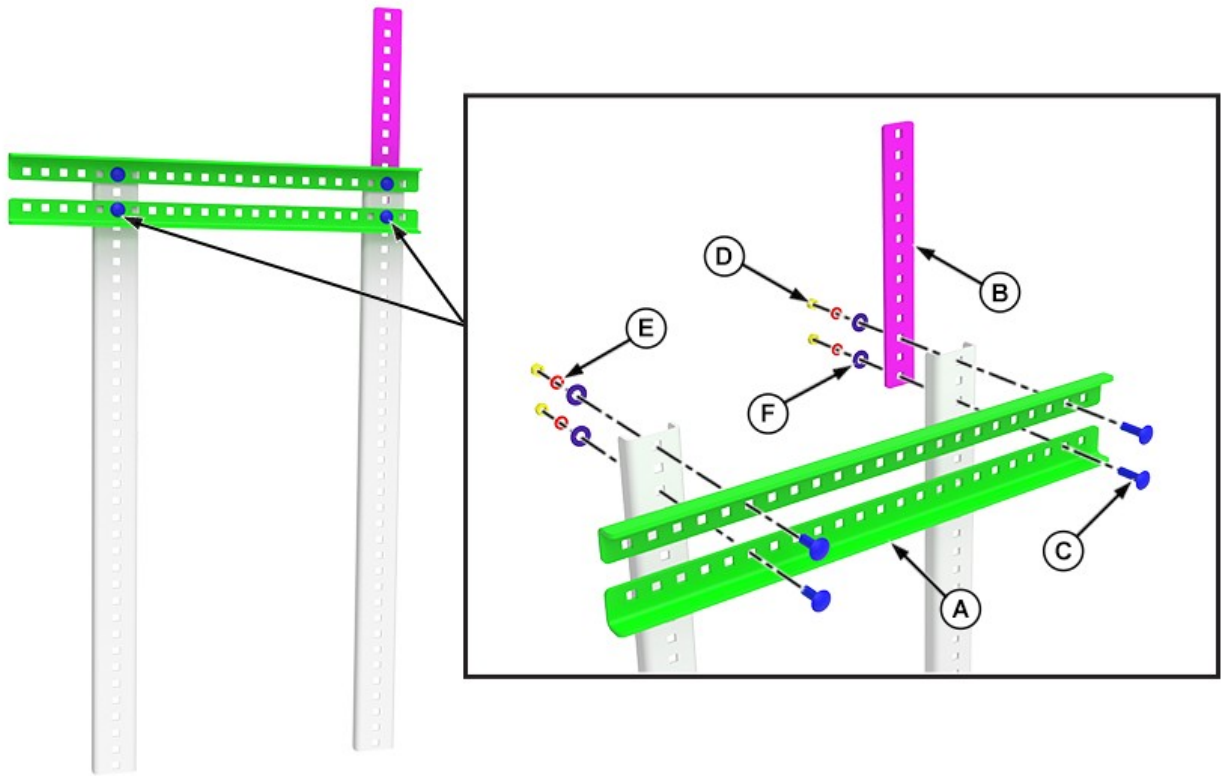
NOTE: The orientation of the flange is important, the flat sides should be positioned next to each other, while the flanges must be on the outside.

NOTE: To ensure the LiDAR is raised between 30 and 40 inches from the ground in the next steps, the upper bracket should also be positioned at the same height. 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.

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Vertical Tower Assembly That Attaches to the Sprayer Structural Frame

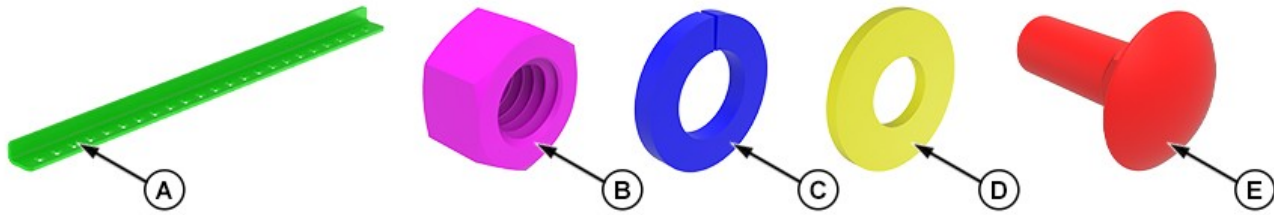


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Step 6 of 6: Bracket installation



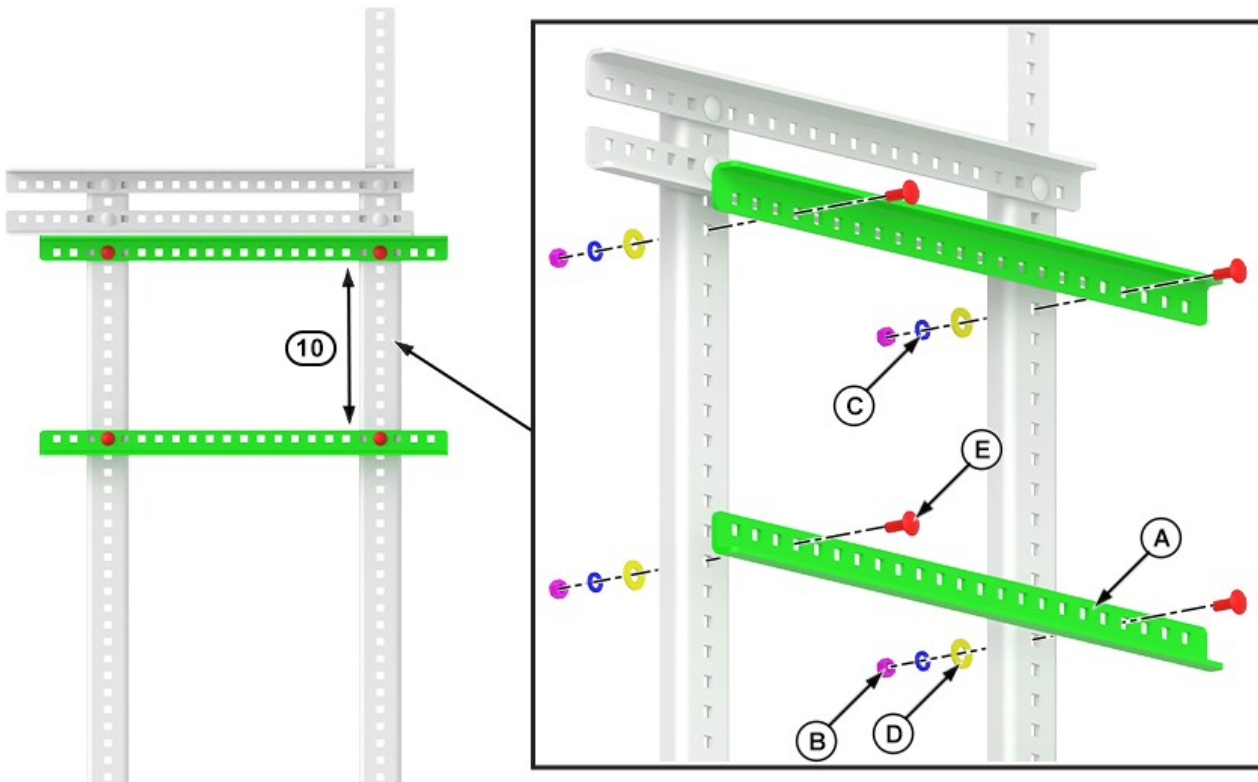
YK133357—UN—30OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100278	Bracket	2
B	7100521	Nut	4
C	7100520	Split washer	4
D	7100460	Washer	4
E	7100462	Bolt	4

1. Install brackets (A) centered between the frame brackets, leaving 10 slots available between them. Secure using nuts (B), washers (C), split washers (D), and bolts (E).

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LiDAR Assembly

Step 1 of 3: LiDAR assembly



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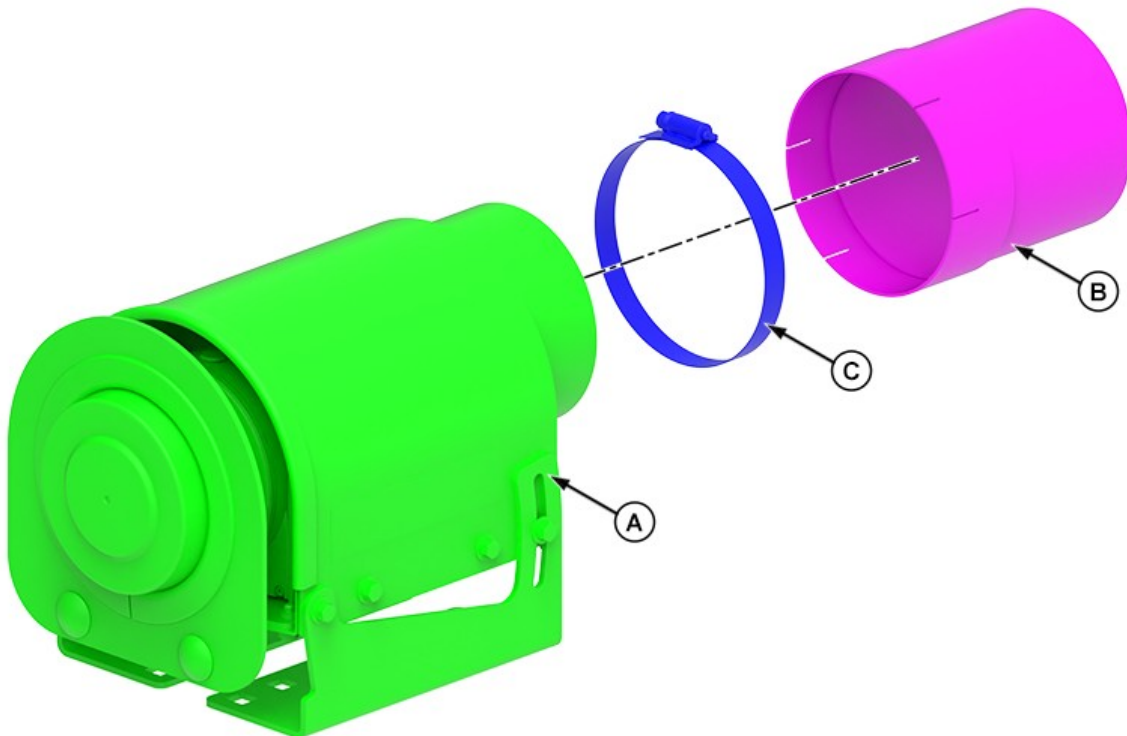
Parts required for this step

Identifier	Part Number	Description	Quantity
A	1000040	LiDAR	1
B	1100354	LiDAR extension	1
C	7100509	Clamp	1

1. Assemble LiDAR (A) with LiDAR extension (B) and secure it with clamp (C).

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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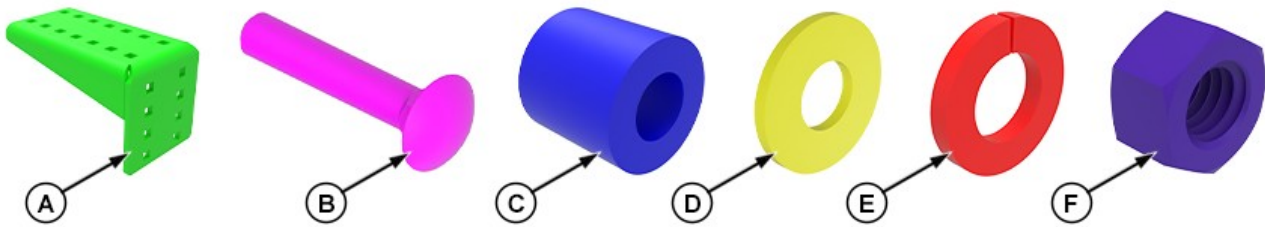


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Step 2 of 3: Support installation



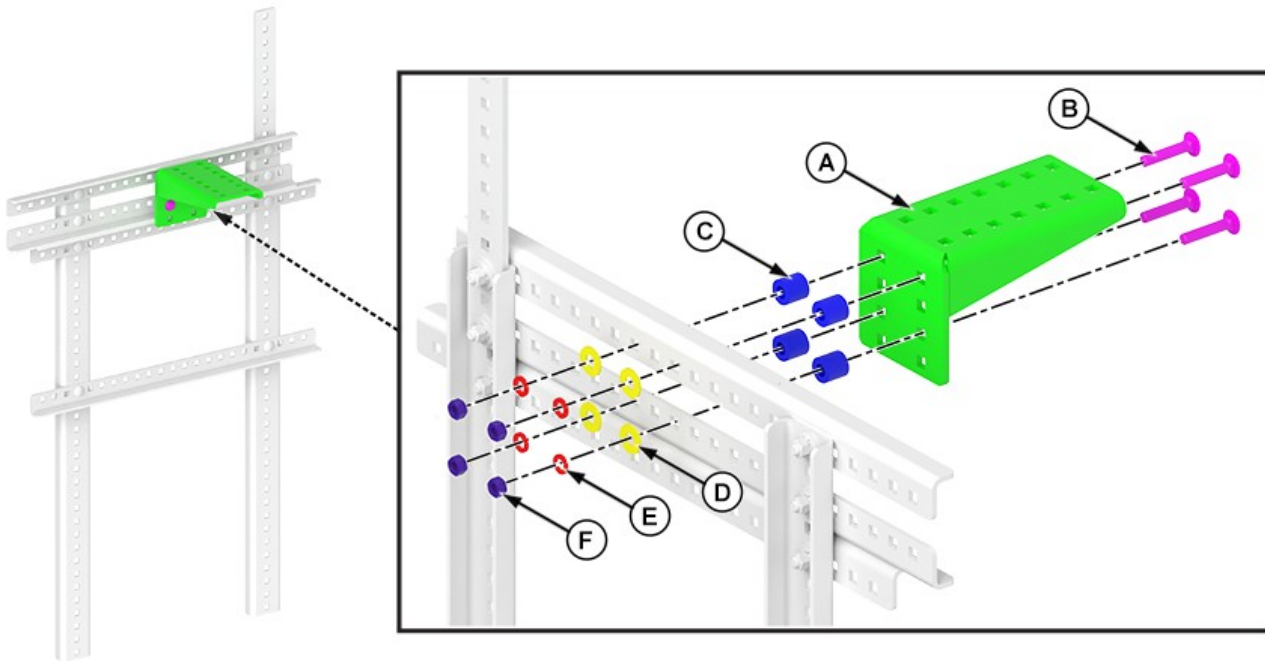
YK133361—UN—30OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100355	Support bracket	1
B	7100464	Bolt	4
C	1100267	Spacer	4
D	7100460	Washer	4
E	7100520	Split washer	4
F	7100521	Nut	4

1. Install support bracket (A) centered onto the bracket frame using bolts (B), spacers (C), washers (D), split washers (E), and nuts (F).

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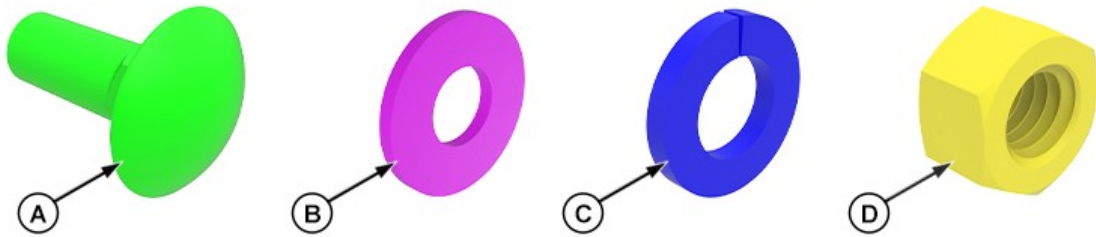


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Step 3 of 3: LiDAR assembly to support bracket



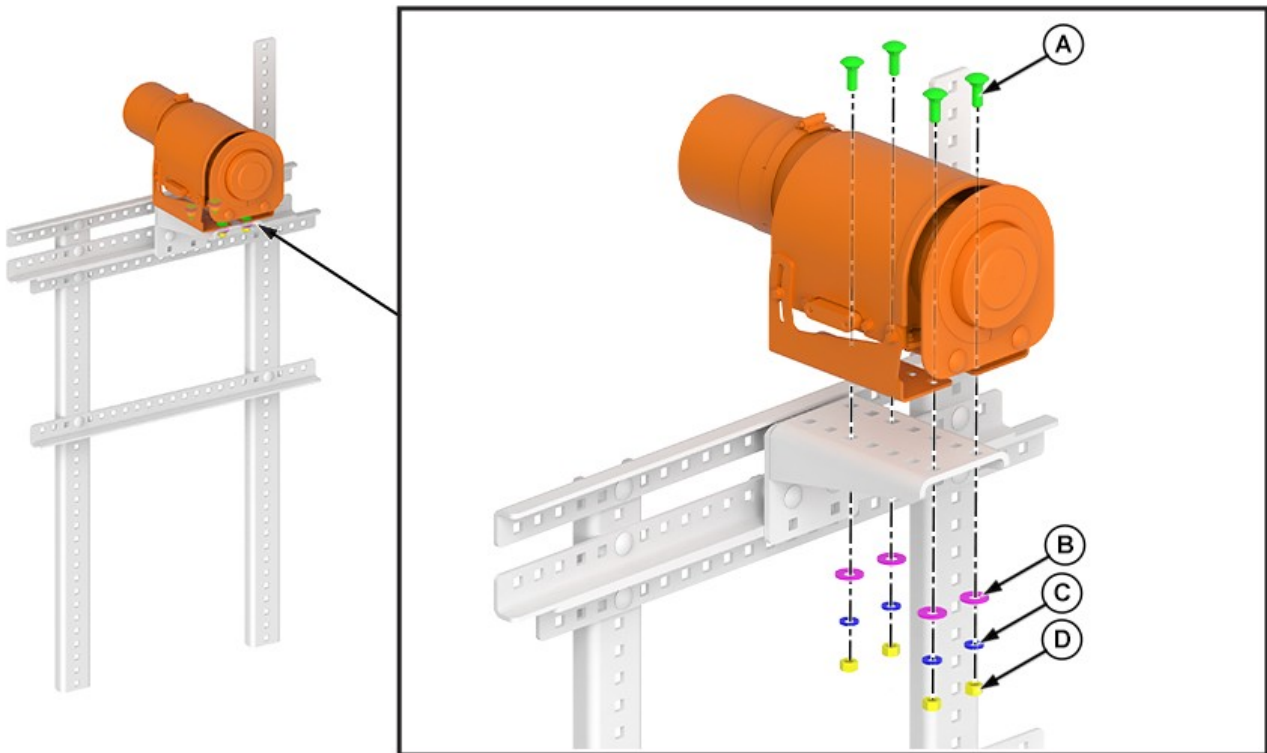
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Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100462	Bolt	4
B	7100460	Washer	4
C	7100520	Split washer	4
D	7100521	Nut	4

1. Take the LiDAR sub assembly and align the rear end to the edge of the support bracket, secure the rear using bolts (A), washers (B), split washers (C), and nuts (D).

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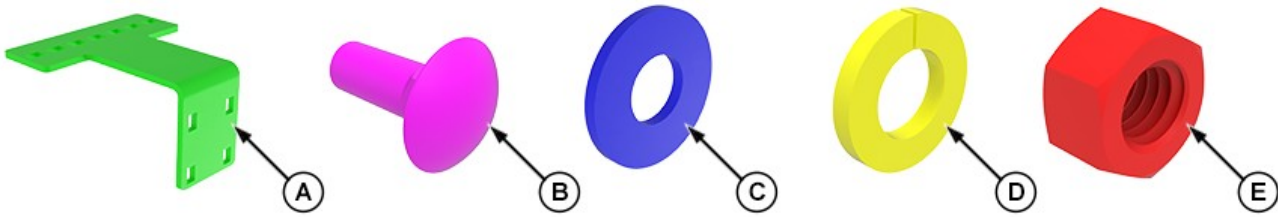


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Air Blower Assembly

Step 1 of 4: Bracket installation



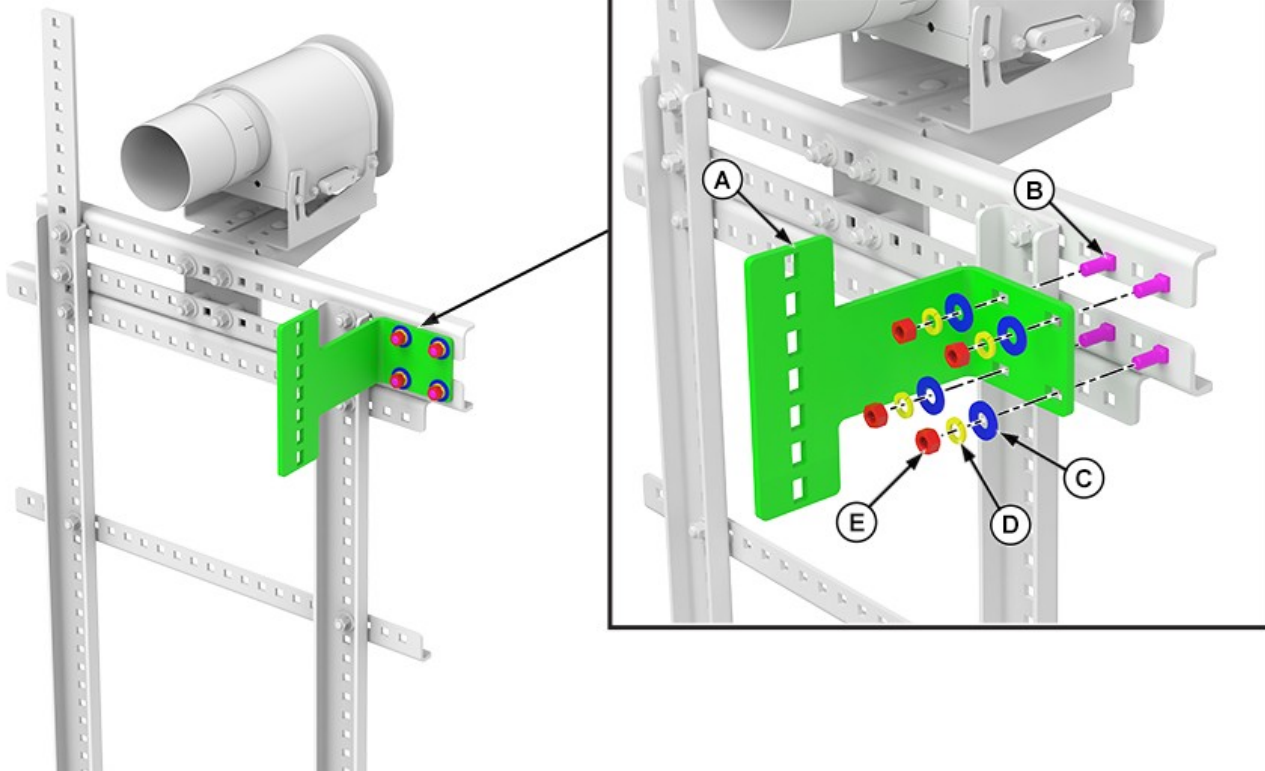
YK133370—UN—29OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100347	Bracket	1
B	7100462	Bolt	4
C	7100460	Washer	4
D	7100520	Split washer	4
E	7100521	Nut	4

1. Install bracket (A) next to the left frame bracket and secure using bolts (B), washers (C), split washers (D), and nuts (E).

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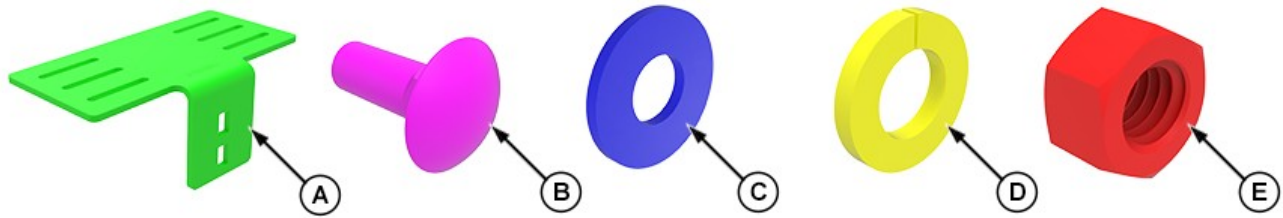


YK133371—UN—29OCT24

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QD3GM42,1730815654517-19-28JAN25-2/8

Step 2 of 4: Bracket installation



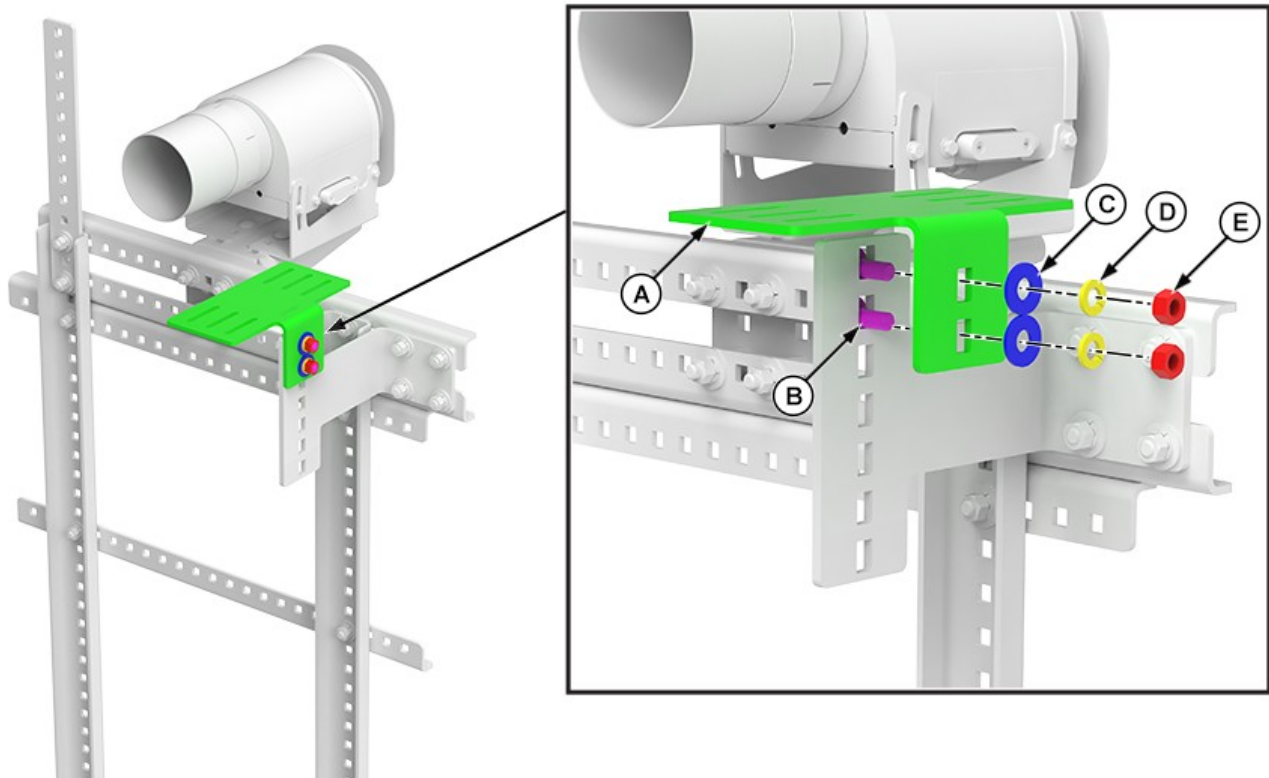
YK133372—UN—29OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100353	Bracket	1
B	7100462	Bolt	2
C	7100460	Washer	2
D	7100520	Split washer	2
E	7100521	Nut	2

1. Install bracket (A) onto the previous bracket and secure using bolts (B), washers (C), split washers (D), and nuts (E).

QD3GM42,1730815654517-19-28JAN25-3/8

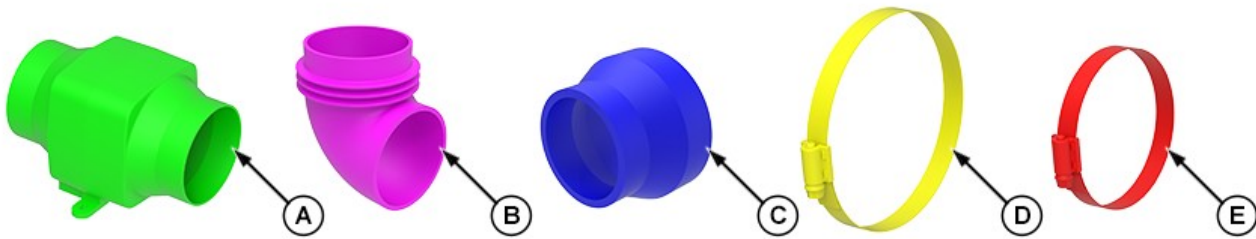


YK133373—UN—29OCT24

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QD3GM42,1730815654517-19-28JAN25-4/8

Step 3 of 4: Blower assembly



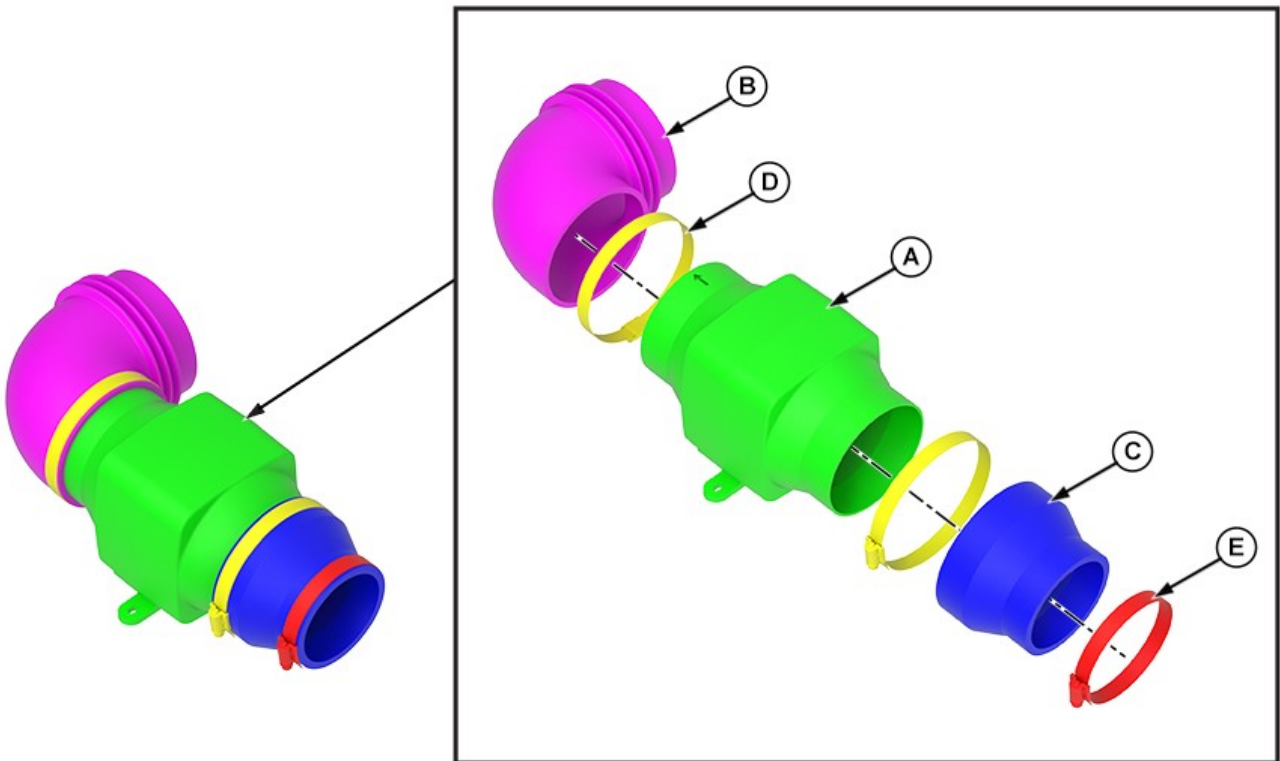
YK133374—UN—29OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	2000138	Blower	1
B	4200326	Elbow	1
C	4200366	Coupler	1
D	7100509	Clamp	2
E	7100504	Clamp	1

1. Ensure that the airflow is directed towards the LiDAR by locating the arrow imprinted on the blower.
2. Assemble flexible elbows (B) and (C) to the blower (A) and secure with clamps (D) and (E) on each connection. Use a 90° angle hook to pull and adjust the flexible elbow if needed.

QD3GM42,1730815654517-19-28JAN25-5/8

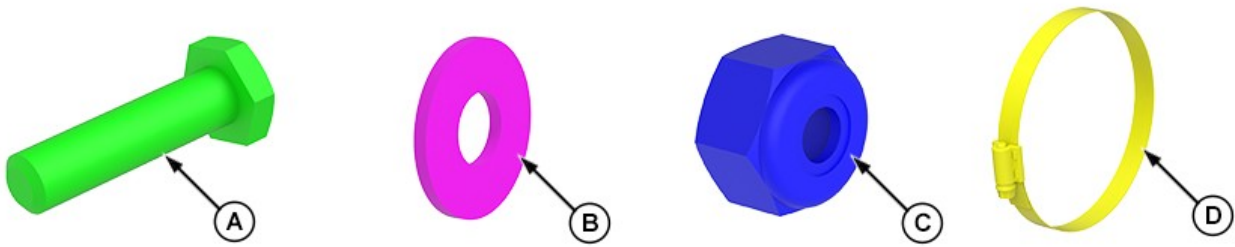


YK133375—UN—29OCT24

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QD3GM42,1730815654517-19-28JAN25-6/8

Step 4 of 4: Blower assembly installation



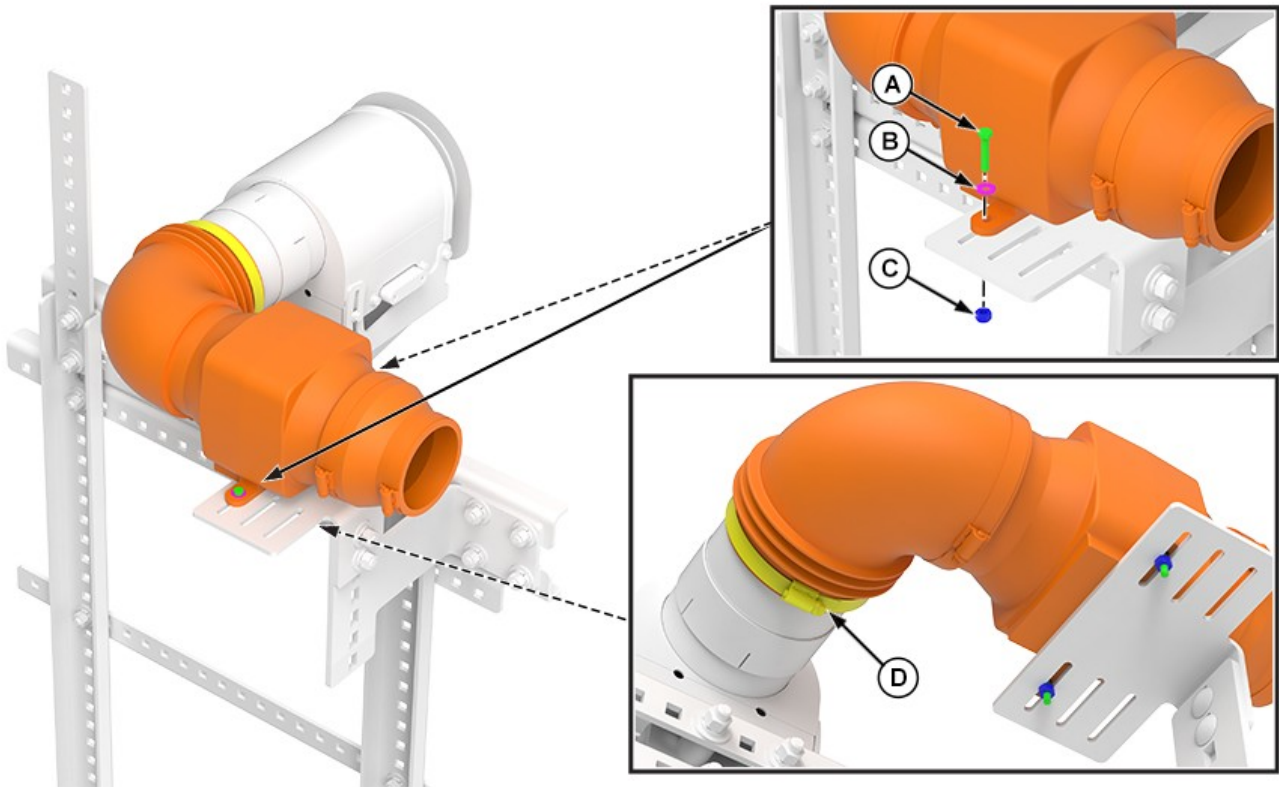
YK133376—UN—29OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100469	Bolt	2
B	7100467	Washer	2
C	7100468	Nut	2
D	7100509	Clamp	1

1. Connect lower assembly to LiDAR and secure it with clamp (D), then secure it to bracket using bolts (A), washers (B), and nuts (C).

QD3GM42,1730815654517-19-28JAN25-7/8

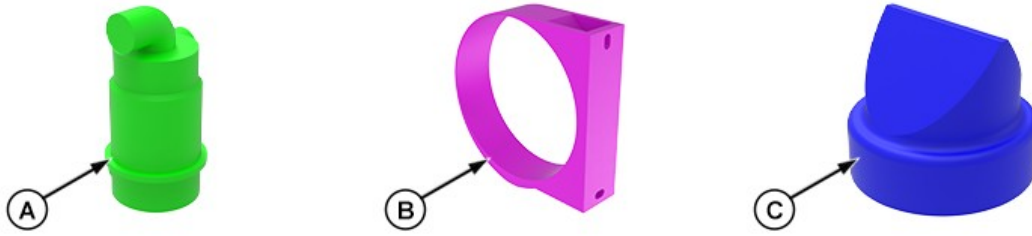


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Air Filter Assembly

Step 1 of 4: Air filter base assembly



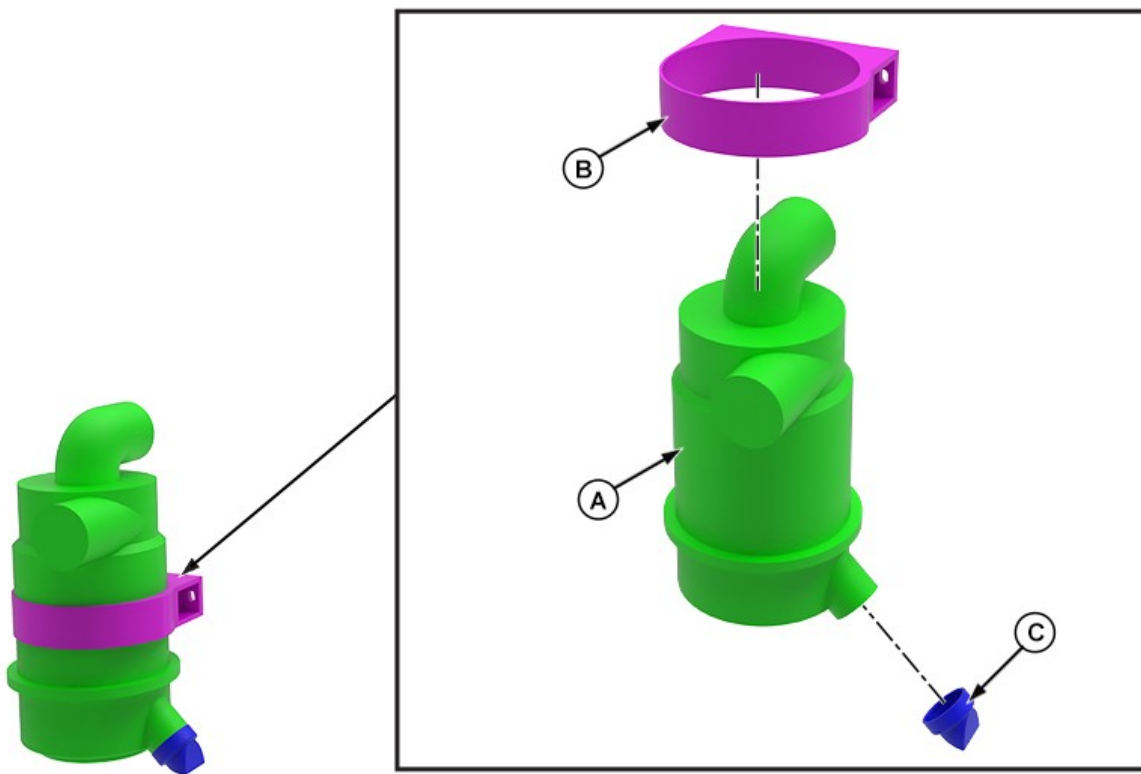
YK130651—UN—25SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	4200351	Air filter	1
B	4200352	Air filter clamp	1
C	4200382	Air filter vacuator	1

1. Assemble air filter (A), air filter clamp (B), and air filter vacuator (C) as shown on image.

QD3GM42,1730815675109-19-08JAN25-1/8

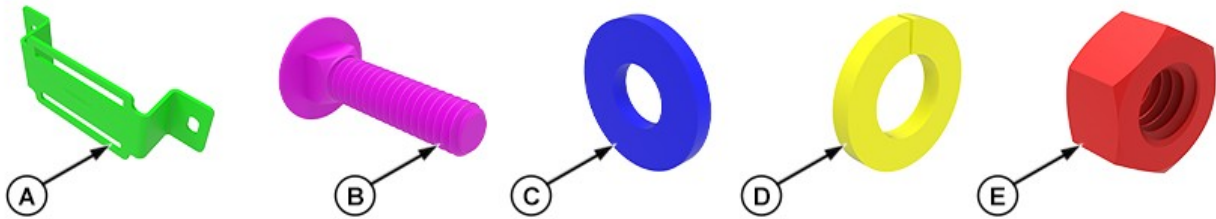


YK130652—UN—25SEP24

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QD3GM42,1730815675109-19-08JAN25-2/8

Step 2 of 4: Bracket installation (Air filter base)



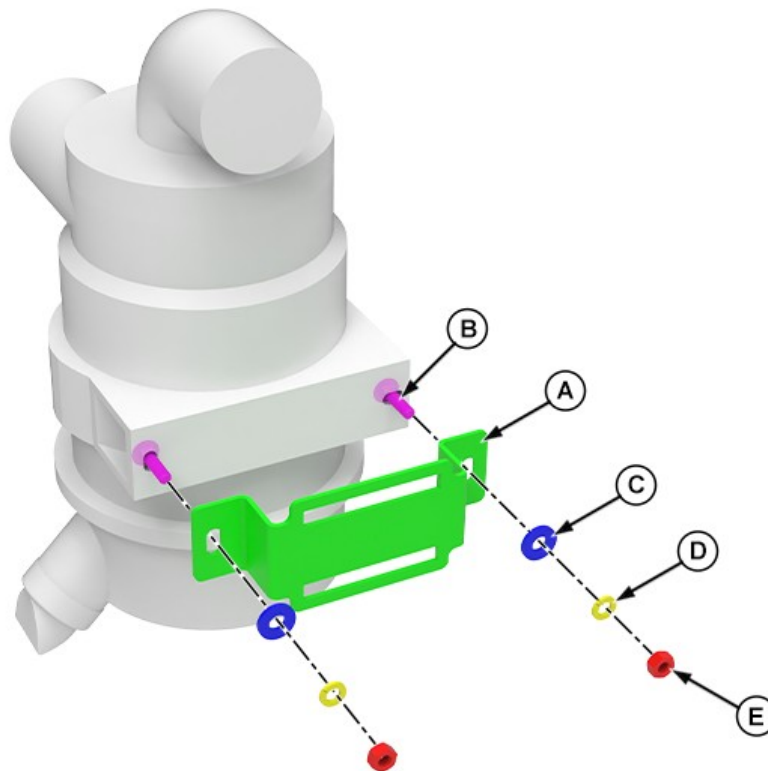
YK130653—UN—25SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100303	Bracket	1
B	93180A325	Bolt	2
C	93852A132	Washer	2
D	92147A030	Split Washer	2
E	94804A030	Nut	2

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

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YK130654—UN—25SEP24

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QD3GM42,1730815675109-19-08JAN25-4/8

Step 3 of 4: Elbow installation



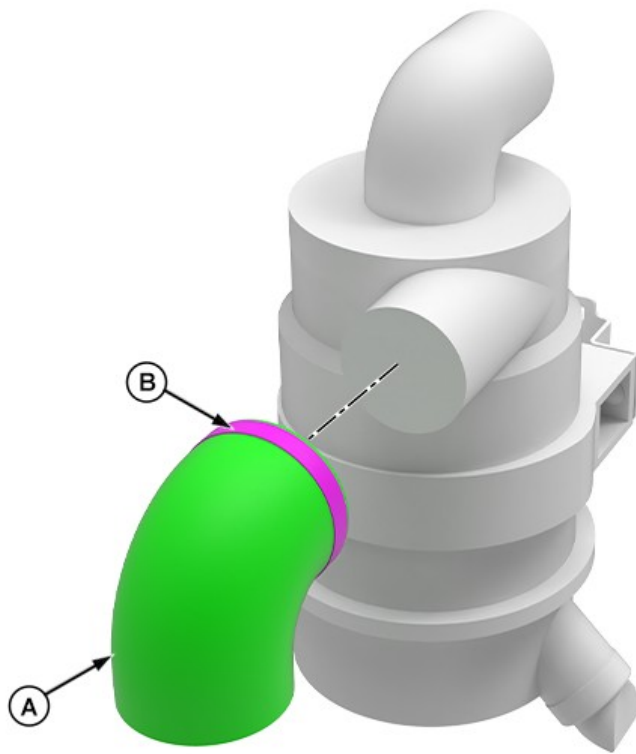
YK130655—UN—25SEP24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	4200354	Elbow	1
B	7100504	Clamp	1

1. Install 90° elbow (A) onto the air filter facing down and secure with clamp (B).

QD3GM42,1730815675109-19-08JAN25-5/8

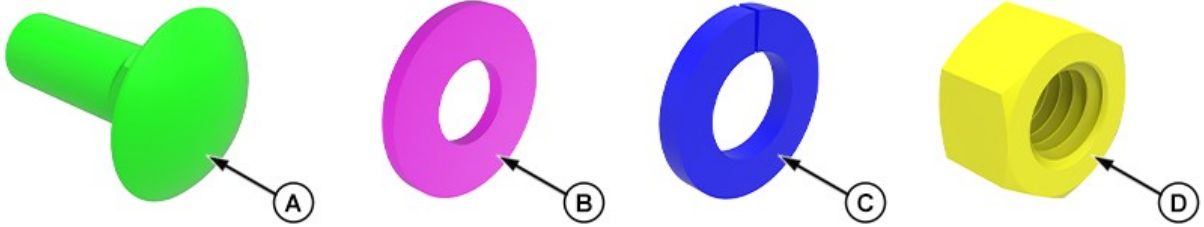


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Step 4 of 4: Air filter base installation



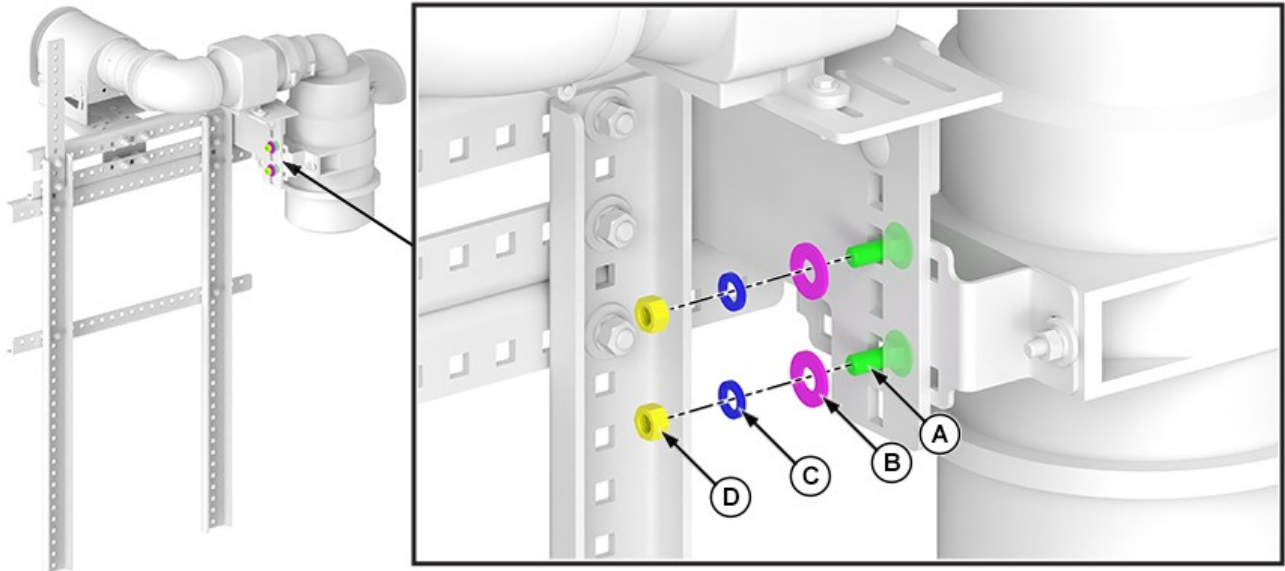
YK133382—UN—30OCT24

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 air filter onto the tower bracket and secure using bolts (A), washers (B), split washers (C), and nuts (D).
2. Connect air filter elbow to LiDAR coupler and secure using the previously installed clamp.
3. Make sure all clamps and hardware previously installed are tightened.

QD3GM42,1730815675109-19-08JAN25-7/8

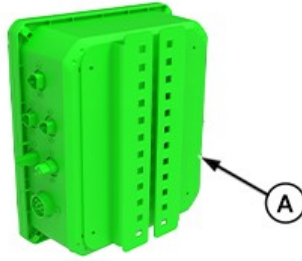


YK133383—UN—30OCT24

QD3GM42,1730815675109-19-08JAN25-8/8

Controller Box Assembly

Step 1 of 4: Brackets disassembly



YK130938—UN—15OCT24

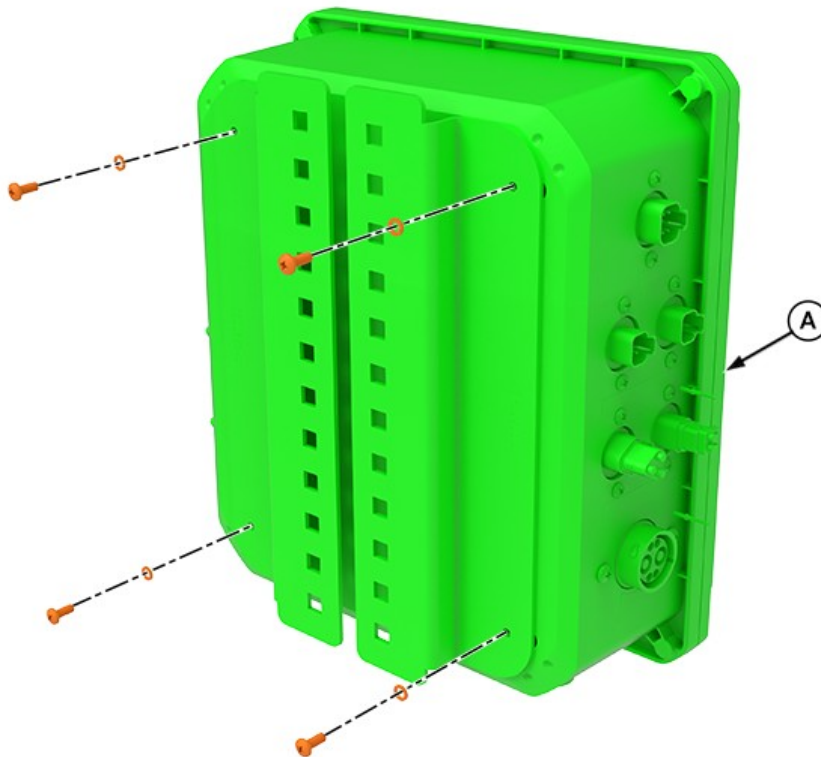
Parts required for this step

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.

QD3GM42,1729540958712-19-08JAN25-1/8

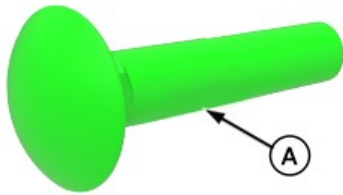


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Step 2 of 4: Control box assembly



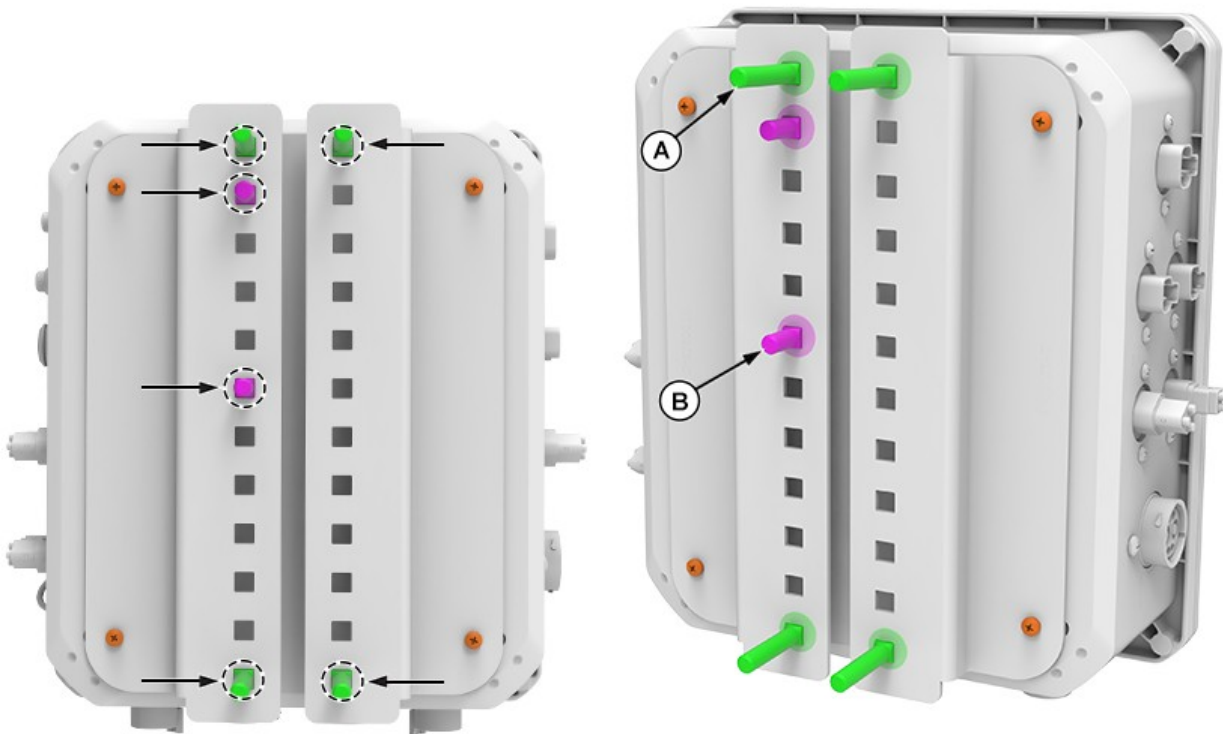
YK130946—UN—16OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	7100464	Bolt	4
B	7100462	Bolt	2

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

QD3GM42,1729540958712-19-08JAN25-3/8

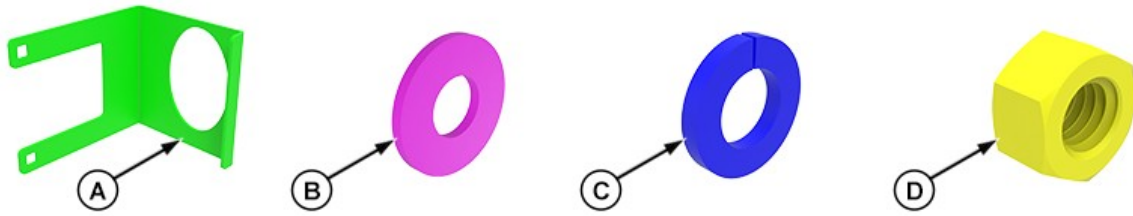


YK130947—UN—16OCT24

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QD3GM42,1729540958712-19-08JAN25-4/8

Step 3 of 4: Bracket to control box



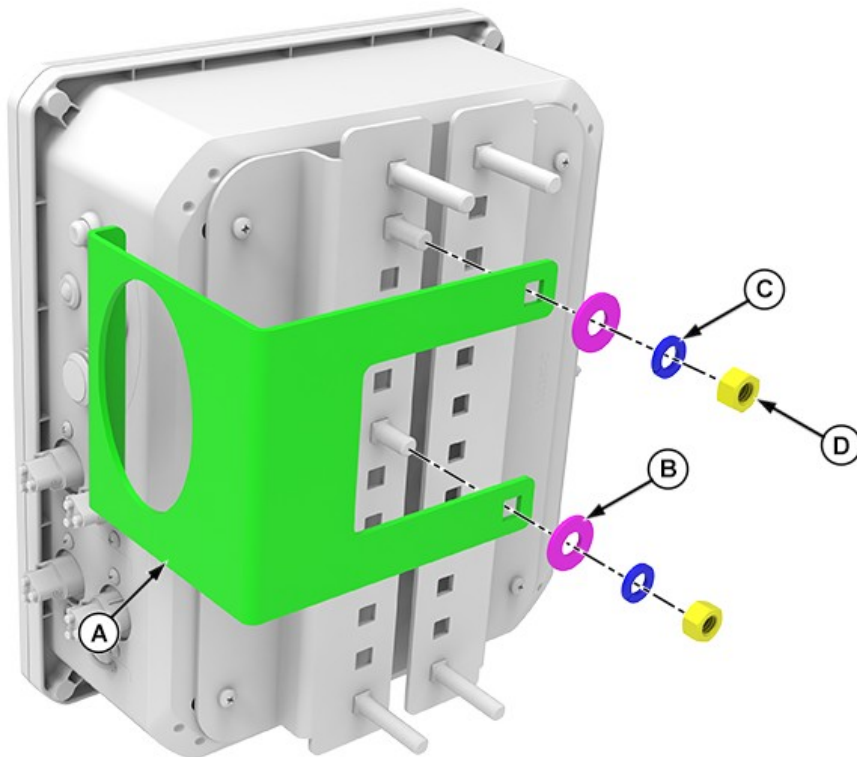
YK129378—UN—29AUG24

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 washer (B), split washers (C), and nuts (D).

QD3GM42,1729540958712-19-08JAN25-5/8

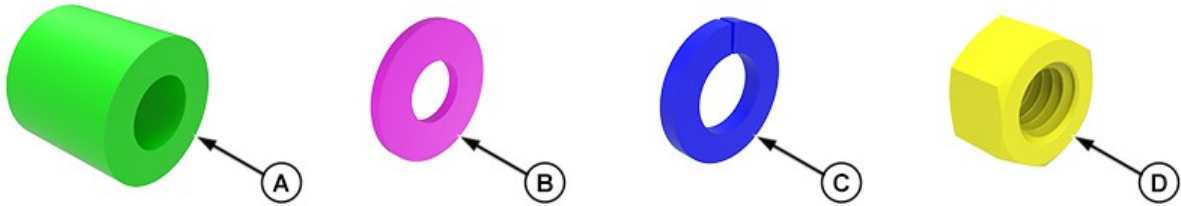


YK130948—UN—16OCT24

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Step 4 of 4: Control box assembly to machine



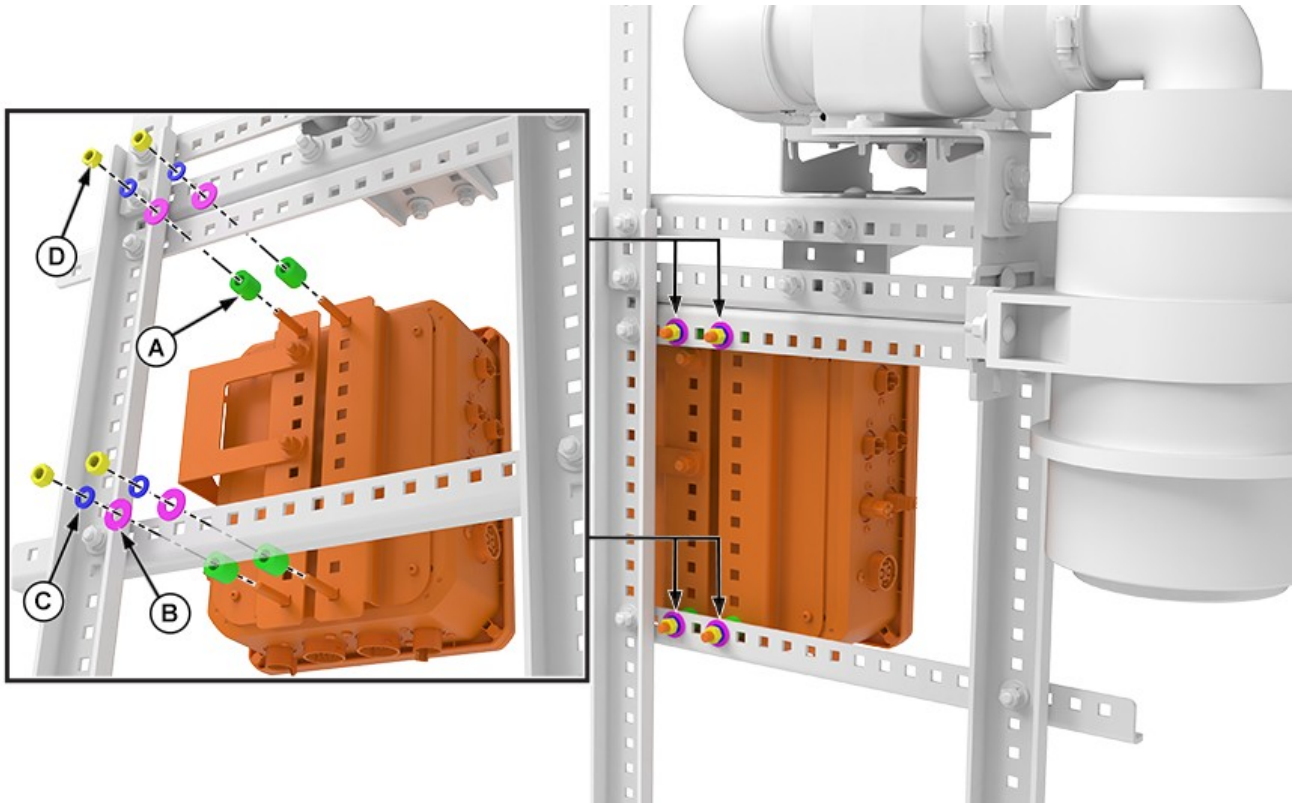
YK130943—UN—15OCT24

Parts required for this step

Identifier	Part Number	Description	Quantity
A	1100267	Spacer	4
B	7100460	Washer	4
C	7100520	Split washer	4
D	7100521	Nut	4

1. Mount controller box assembly onto the bracket using the previously installed bolts and secure using spacers (A), washers (B), split washers (C), and nuts (D).

QD3GM42,1729540958712-19-08JAN25-7/8

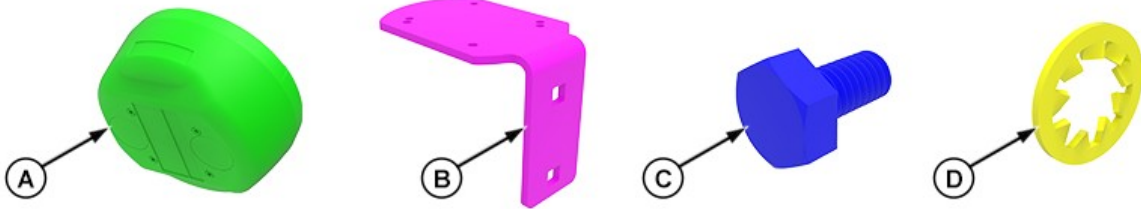


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QD3GM42,1729540958712-19-08JAN25-8/8

GPS Antenna Assembly

Step 1 of 2: GPS assembly



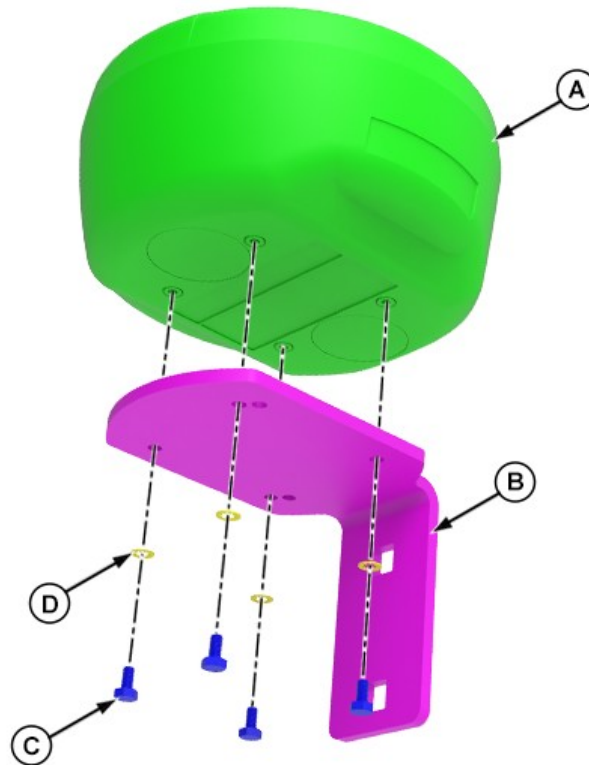
YK129380—UN—29AUG24

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).

QD3GM42,1729540970425-19-08JAN25-1/4

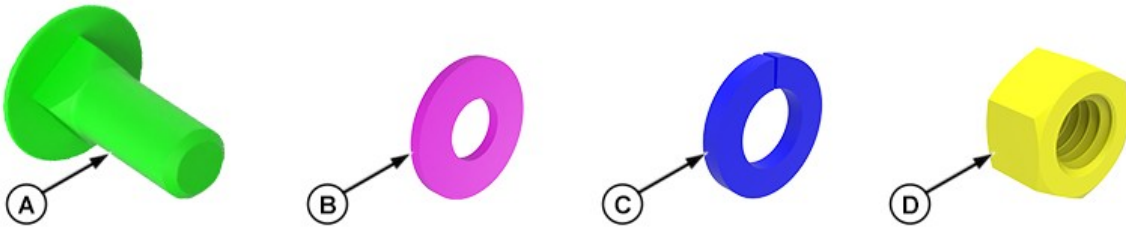


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QD3GM42,1729540970425-19-08JAN25-2/4

Step 2 of 2: GPS assembly to machine



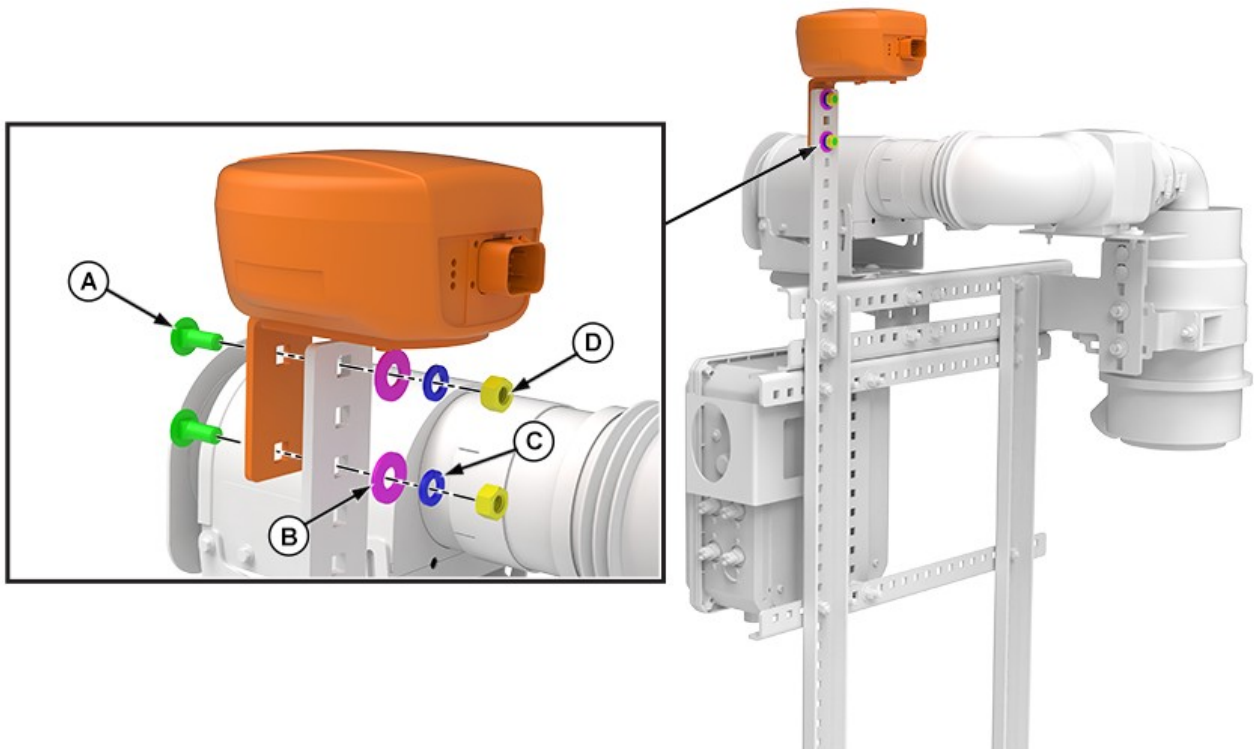
YK129382—UN—29AUG24

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, 1729540970425-19-08.JAN25-3/4



YK130950—UN—16OCT24

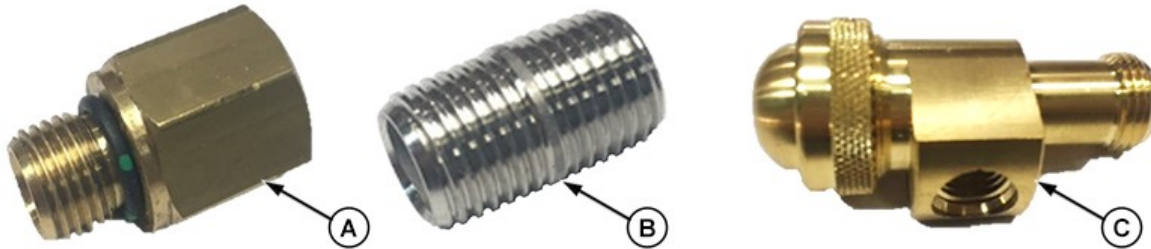
QD3GM42, 1729540970425-19-08.JAN25-4/4

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).

QD3GM42,1730470735825-19-16JAN25-1/2

Step 1 of 1: Brass assembly



YK132942-UN-08NOV24

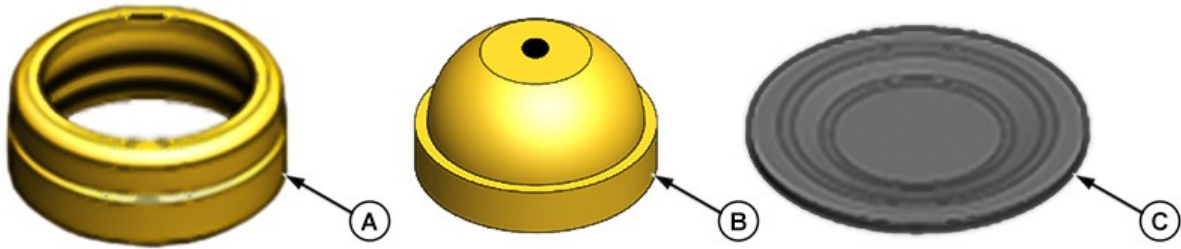
Parts required for this step		
Identifier	Part Number	Description
A	8035-04-04	1/4" fitting
B	4200376	1/4" nipple
C	4200327	Check Valve

1. Locate the rear sprayer boom.
2. Remove all nozzles from the boom using a crescent wrench.
3. Apply Teflon tape to the male threaded section of parts (A) and (B).
4. Connect fitting (A) and valve (C) using nipple (B) and repeat for each nozzle.
5. Install brass subassemblies to boom with the valves ring pointed towards the inside of the sprayer.

QD3GM42,1730470735825-19-16JAN25-2/2

Nozzles Assembly

Step 1 of 1 : Check valve installation for inactive nozzles

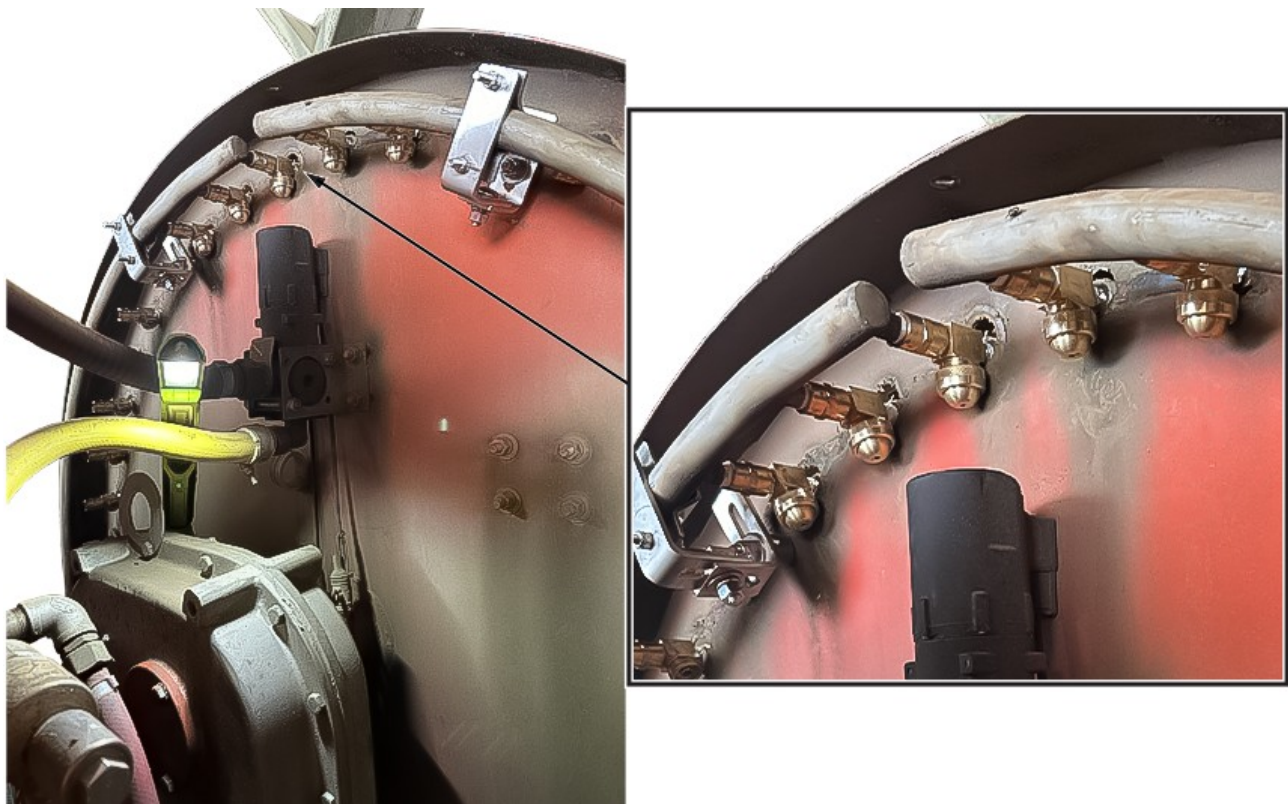


YK129397—UN—08JAN25

Parts required for this step		
Identifier	Part Number	Description
A	CP4624	Threaded ring
B	9758	Check valve
C	CP4620	Gasket

1. Install the nozzles to the check valve.
2. Insert check valve (B) into threaded ring (A). Install onto the valve using a gasket (C) between the valve and check valve.

QD3GM42,1730471541318-19-08JAN25-1/2



YK134005—UN—12DEC24

QD3GM42,1730471541318-19-08JAN25-2/2

Solenoids Assembly

Step 1 of 2: Solenoid installation



YK130829—UN—02DEC24

Parts required for this step		
Identifier	Part Number	Description
A	4100023	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.

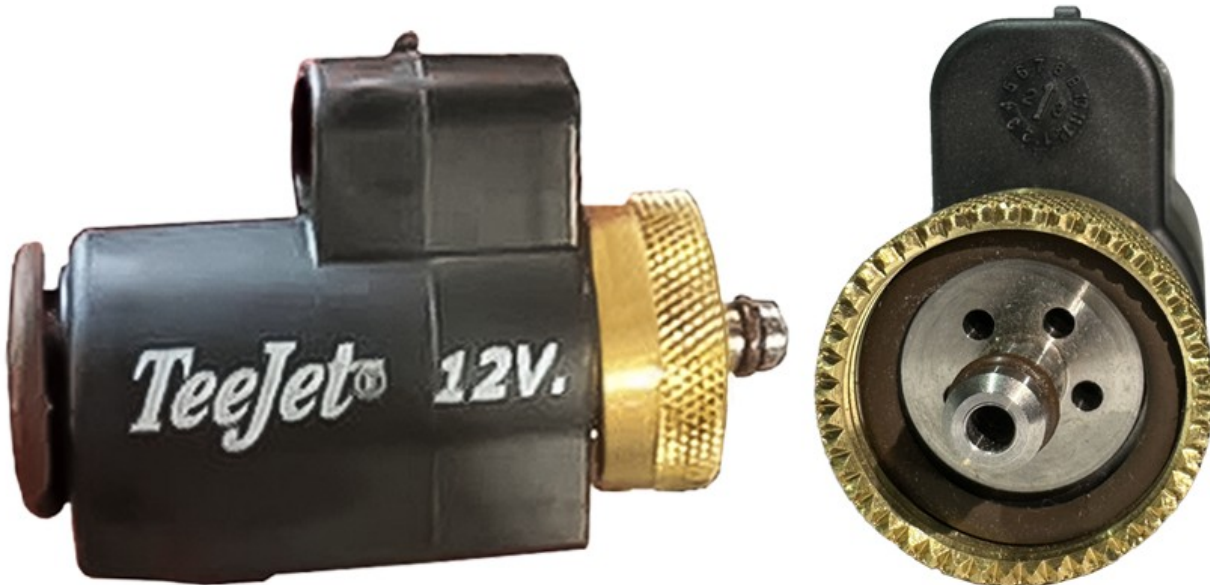
2. If the solenoid is positioned above the line, use wrench (B) to loosen the solenoid tube while holding the nylon nut in place with another wrench.

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.

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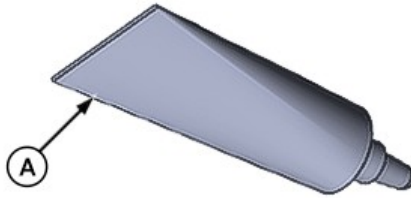


YK130830—UN—08JAN25

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QD3GM42,1730472667992-19-08JAN25-2/4

Step 2 of 2: 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. Install the solenoids and caps following the original sprayer configuration, making sure that the connector is oriented in the same direction.

QD3GM42,1730472667992-19-08JAN25-3/4



YK132943—UN—08NOV24

QD3GM42,1730472667992-19-08JAN25-4/4

Harness Routing

Step 1 of 3: Nozzle harnesses connections

Parts required for this step			
Identifier	Part Number	Description	Quantity
A	6100130	Nozzle potted harness	2
B	6100117	Nozzle harness extensions	2

1. Connect left and right-side nozzle potted harness (A) terminal to the solenoids starting from the bottom and working your way up.
2. Route harness extensions (B) along the sides of the sprayer, making sure that the connectors remain on the outside.

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

3. Connect harness extensions to the nozzle potted harness.
4. Lower the tank and secure it using the original bolts and nuts.
5. Connect harness extension to controller box.

QD3GM42,1730487020641-19-16JAN25-1/5



YK132944—UN—08NOV24

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QD3GM42,1730487020641-19-16JAN25-2/5

Step 2 of 3: Battery harness connection

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

1. Connect battery harness (A) to the to the battery inside the sprayer. Use 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.

QD3GM42,1730487020641-19-16JAN25-3/5



YK132945-UN-08NOV24

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QD3GM42,1730487020641-19-16JAN25-4/5

Step 3 of 3: Harnesses connection

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

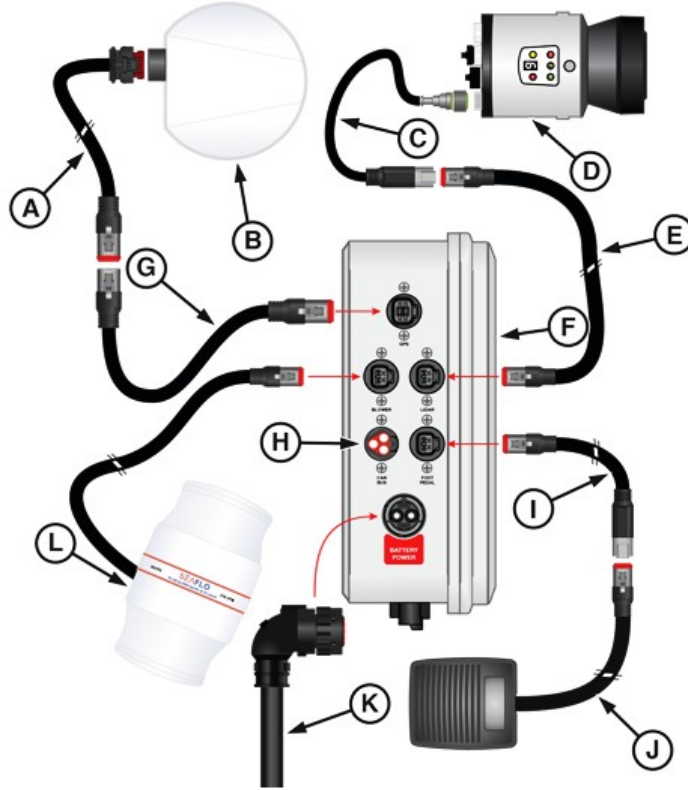
1. Connect one plug of harness (A) to the GPS antenna and the other plug to the controller box. Use harness extension (B) if necessary.
2. Connect one plug of harness extension (C) to the LiDAR harness and the other plug to the controller box.
3. Connect one plug of harness (D) to the blower/fan harness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

QD3GM42,1730487020641-19-16JAN25-5/5

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

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

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.

QD3GM42,1726149146911-19-24JAN25-1/2



YK130834-UN-08JAN25

QD3GM42,1726149146911-19-24JAN25-2/2
