halo®

TIRE INFLATOR

SECOND GENERATION HALO HA-5 MODEL USER MANUAL

IN-501UM-EN

Failure to follow the instructions and safety precautions in this manual may result in the product detaching from the vehicle, tire blowouts, and/or loss of vehicle control, which may result in serious injury or death.

SAFETY WORDS AND SYMBOLS

Please pay attention to special symbols used through this manual to convey important information. Hazard signal words such as WARNING, CAUTION, or NOTICE are used throughout this manual. Information accented by these words indicates a point of emphasis and importance. The following definitions comply with ANSI Z535.6 and indicate the use of signal words as they appear within this manual.

	This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ WARNING	WARNING indicates a hazardous situation that, if not avoided, could result in serious injury or death.
⚠ CAUTION	CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injuries.
NOTICE	NOTICE is used to address practices which could result in damage to equipment or property.

OTHER HELPFUL WORDS AND SYMBOLS

The following symbols are used throughout the manual to help guide you in your work with the Halo Tire Inflator.

 SOUND CHECK	A sound check symbol describes a critical noise that should be heard and and accompanying instructions that should be followed.
 VISUAL CHECK	A visual check symbol describes a critical observation that the user should see and accompanying instructions that should be followed.

SAFETY

IMPORTANT SAFETY INFORMATION

The Halo and its components should be installed and maintained in accordance with the instructions in this manual. Proper installation and maintenance of the Halo is critical to ensure safe use of the device. Failure to do so may result in injury or death, tire damage or failure, and/or damage to other equipment or property. Carefully read, understand and follow all safety related information within this manual.

⚠ WARNING:

POTENTIAL ELECTROSTATIC CHARGING HAZARD:
Do not install or remove the inflator in a hazardous environment. Once installed, cleaning shall be done with a wet cloth.

Regular tire pressure checks required.
The Halo is not intended to replace regular pressure-checks and tire maintenance practices as specified by the FMCSA in their Compliance, Safety, Accountability (CSA) Program. Aperia encourages users to take care of their tires and Halos, both of which are important to their safety.

DO NOT modify parts without authorization
DO NOT modify or rework parts without written authorization from Aperia. Use ONLY Aperia authorized replacement parts. Use of substitute, modified or replacement parts not authorized by Aperia may not meet Aperia's specifications and may result in failure of the part and possibly injury or death. Obtain authorized replacements by contacting customer support.

Use PPE and follow all safety regulations
To prevent injury, always use personal protective equipment (PPE) and follow all federal, state, local and employer safety regulations, as appropriate, when installing or maintaining the Halo. PPE includes proper footwear, eye protection, and gloves.

ROADSIDE CALL INSTRUCTIONS

If a roadside call occurs, please present the technician with this user manual. Refer the technician to the Important Safety Information and Halo Uninstallation sections. If additional assistance is required, please contact Customer Support or visit aperiatech.com/literature.

IMPORTANT SAFETY INFORMATION

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SAFETY

SAFETY

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INTRODUCTION

Tire under-inflation is a well-known problem in the trucking industry. Research from the Federal Motor Carrier Safety Administration (FMCSA) shows that fewer than 55% of all truck tires are within 5 PSI of their target tire pressure. This means billions of dollars are lost each year due to increased fuel consumption, tread wear, tire blowouts and other operational issues. According to a field test conducted by the U.S. Department of Transportation, optimal tire inflation can save a fleet over $2,200 annually per tractor-trailer while saving time and improving safety.

THE HALO TIRE INFLATOR

Aperia Technologies is proud to offer the Halo Tire Inflator as the leading retrofit, auto-inflation solution for both tractors and trailers. The Halo is a completely mechanical, rotational pump, compatible with dual or wide-base tires and is the first standalone tire inflation technology for medium- and heavy-duty vehicles. As an easy-to-install, bolt-on device, it can be mounted in 5-10 minutes per wheel-end and does not require connection to an onboard air compressor.

HALO BENEFITS:

- Increases Fuel Efficiency
- Reduces Tread Wear
- Fewer Blowouts
- Fleet Profitability
- Prevents Accidents
- Maximizes Up-Time
- Extends Casing Life
- Simplified Maintenance
- Reduces Emissions

INTRODUCTION

ABOUT THIS MANUAL

This user manual is provided to support the installation and maintenance of the Halo Tire Inflator on new or in-service tractors and trailers.

The descriptions and specifications provided in this manual are current at time of publication.

ONLINE PRODUCT LITERATURE

The most up-to-date version of the Halo User Manual and additional product literature covering the installation, maintenance, and service of accessories and add-on items can be found online at:

www.aperiatech.com/literature 

CONTACT APERIA

Contact Aperia Customer Support via phone or email for technical or sales assistance.

Phone	+1 (844) RUN-HALO
Website	www.aperiatech.com
Sales	sales@aperiatech.com
Support	support@aperiatech.com

INTRODUCTION

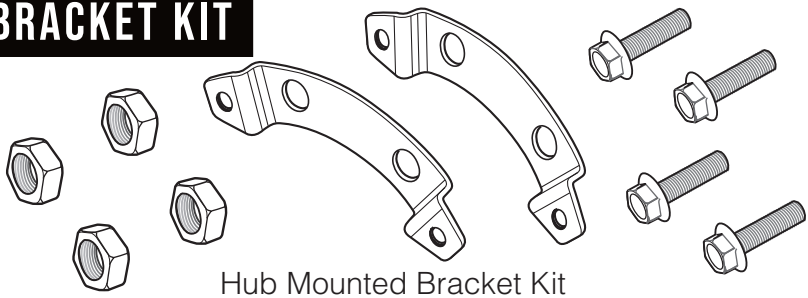
TRACTOR INSTALLATION (STANDARD)

SYSTEM COMPONENTS:

The following components are required for a complete wheel-end installation.

HALO

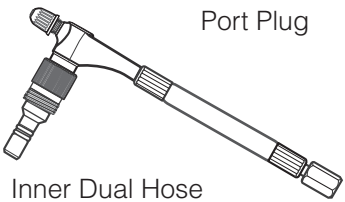
BRACKET KIT



Hub Mounted Bracket Kit

HOSE KIT

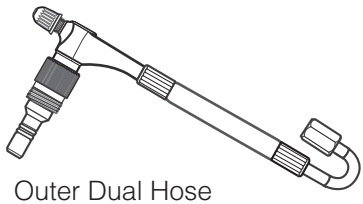
Port Plug



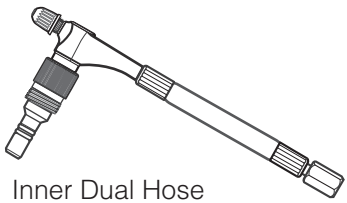
Inner Dual Hose

Kit for Single Tires

OR



Outer Dual Hose



Inner Dual Hose

Kit for Dual Tires

START

INSTALLATION TOOLS

REQUIRED FOR ALL INSTALLATIONS

- Torque wrench (capable of measuring 10 to 50 ft-lb)
- Socket wrench
- Socket extension
- Socket for axle shaft nuts (varies by vehicle)
- 1/2" (13mm) hex socket
- Channellock pliers
- Soapy water mixture in a spray bottle

REQUIRED FOR SOME INSTALLATIONS

- Impact driver and socket for hub/wheel nuts
- Torque wrench (capable of measuring 100-250 ft-lb)

RECOMMENDED

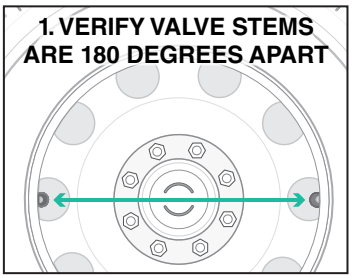
- Permanent bright colored marker/paint pen

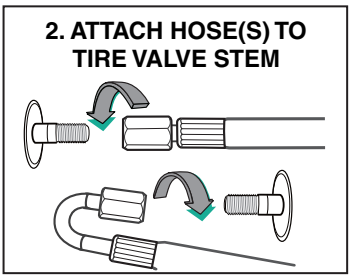
⚠ WARNING: Potential electrostatic charging hazard. Do not install the inflator in a hazardous environment.

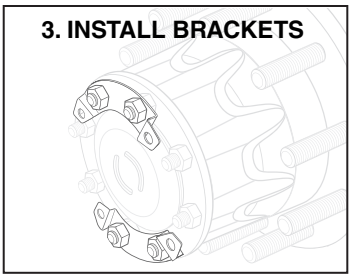
⚠ WARNING: Use ONLY Aperia authorized replacement parts. Use of substitute, modified or replacement parts not authorized by Aperia may not meet Aperia's specifications and may result in failure of the part, loss of vehicle control and possibly injury or death. To obtain authorized replacement parts contact customer support.

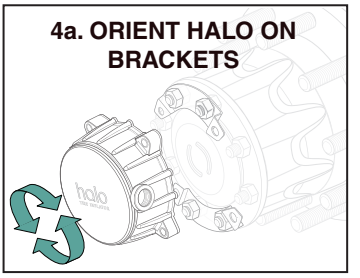
INSTALLATION OVERVIEW

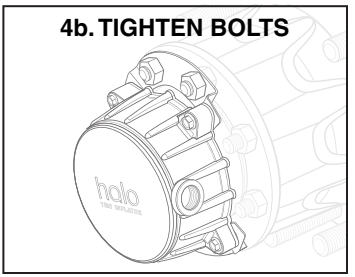
A general overview of the installation steps for the Halo Tire Inflator are shown below. Do not install without referring to the "Install" section for complete details.

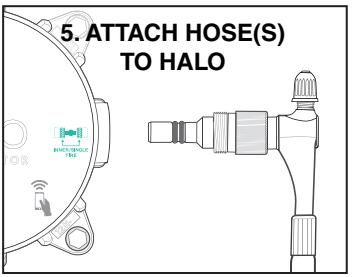


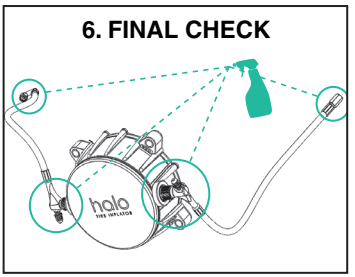












INSTALL OVERVIEW

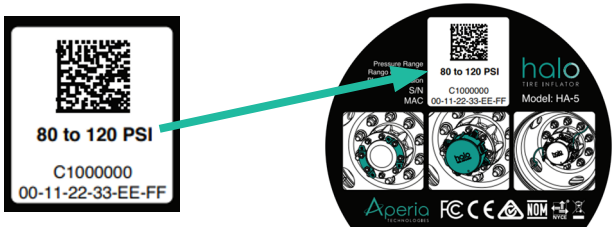
1. PREPARE THE VEHICLE

ⓐ Inspect the tires and valve stems to ensure they are in good condition.

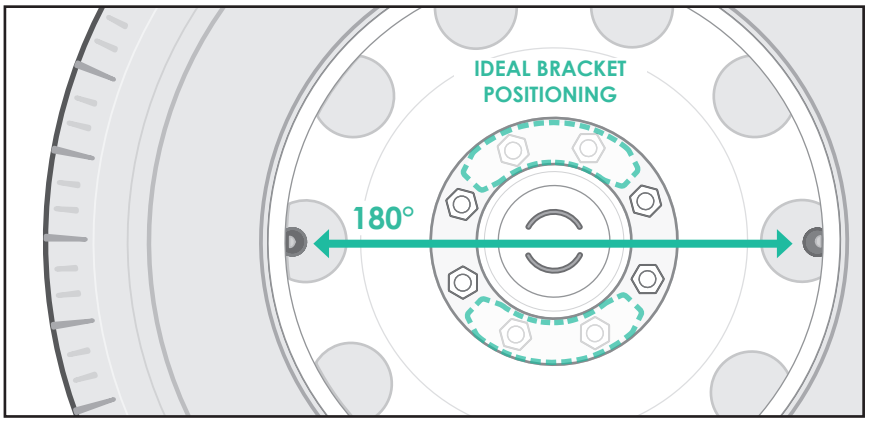
VISUAL CHECK

> **⚠ WARNING:** A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. A tire in poor condition or with punctures may lead to a blowout.

ⓑ Check label on the rear of the Halo to confirm Halo max pressure does not exceed wheel rim rating.



ⓒ Plan your installation so that the Halo hose port will be facing the appropriate valve stem. If you are installing on dual tires, ensure that the **valve stems** are oriented 180 degrees apart - on oppossing sides of the wheel.

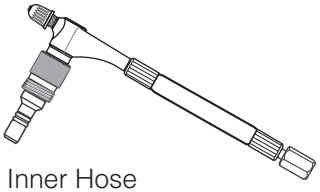


Make sure you can position the brackets lengthwise; following the path between the two valve stems. Your goal is to mount the brackets as close as possible to parallel along this path.

2. ATTACH HOSE(S) TO TIRE VALVE STEM(S)

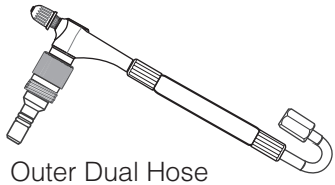
KIT FOR WIDE-BASE

Port Plug

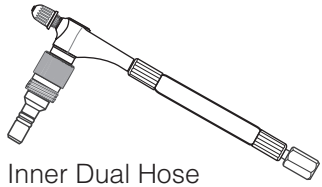


Inner Hose

KIT FOR DUAL BASE

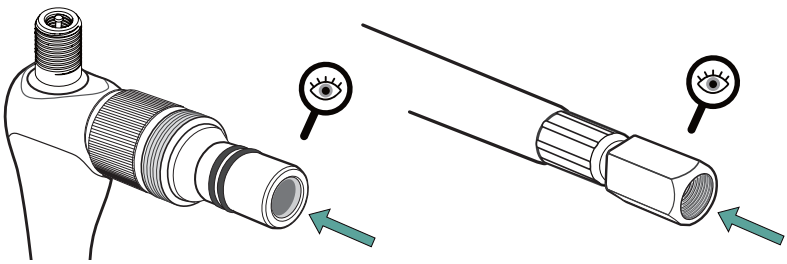


Outer Dual Hose

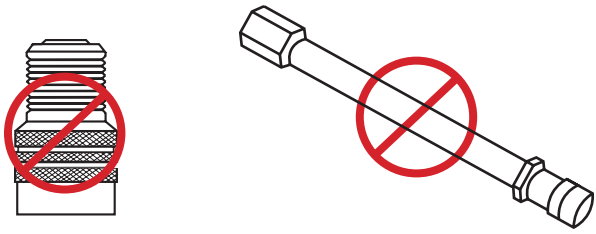


Inner Dual Hose

⚠ WARNING: Before installing the hoses, check both hose-ends for debris or damaged o-ring or gasket. A damaged or contaminated hose o-ring or gasket may cause a tire leak.



⚠ WARNING: Do not add/use pass-through valve stem caps or valve stem extenders as these greatly increase the risk of a tire leak.



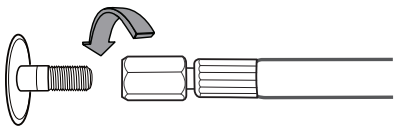
INSTALL

2. ATTACH HOSE(S) TO TIRE VALVE STEM(S) (CONT'D)

ⓐ Carefully adjust the hose(s) at the swivel points in order to connect to the appropriate valve stem(s) and allow the hose and Halo connector(s) to hang loosely for later. Verify that the hoses and connections will not be stressed and that positioning will at no point be in contact with the wheel face, hand holes, mounting flange, or wheel bead seat.

SINGLE / WIDE-BASE

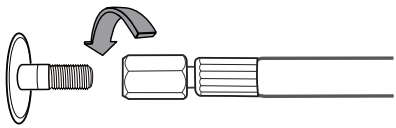
❶ Attach the **connector** to the **tire's valve stem.**



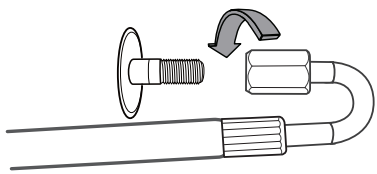
SOUND CHECK:
While tightening the hose swivel, listen for the brief release of air to stop. This indicates that the gasket is contacting the valve stem. **Then, continue to turn an additional 3/4 turn.**

DUAL INSTALLATION

❶ Attach the **inner dual hose** to the **inner tire's valve stem.**

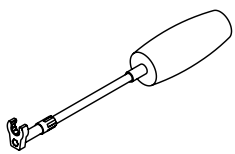


❷ Attach the **outer dual hose** to the **outer tire's valve stem.**



Aperia recommends using our Hose Install Tool to more easily access the hose swivel. Order directly from Aperia's e-commerce page by visiting:

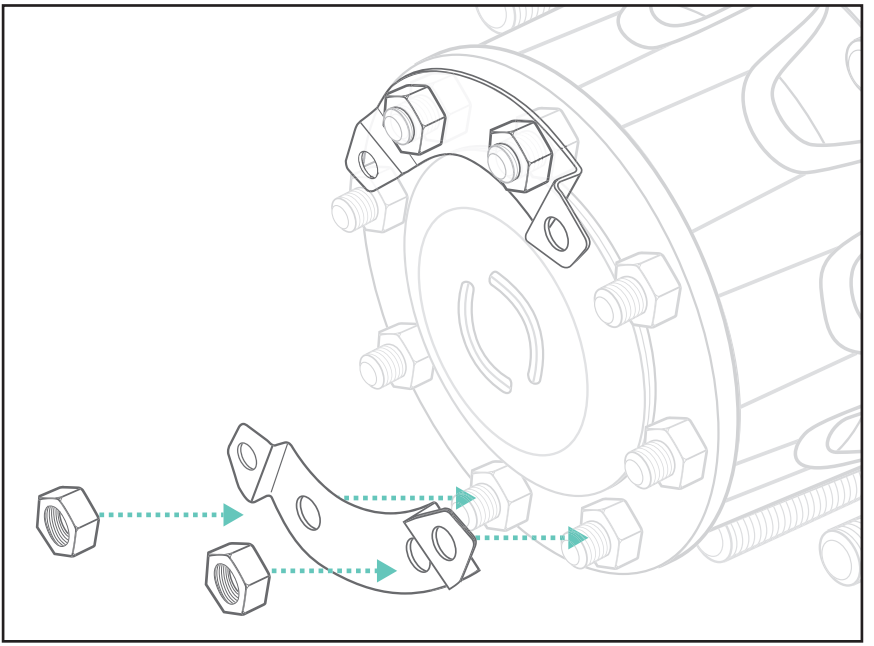
shop.aperiatech.com/ collections/service-parts



⚠ WARNING: A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. **Only use the swivel for tightening.** Twisting of the hose to tighten the connection may damage the seal and cause a tire leak.

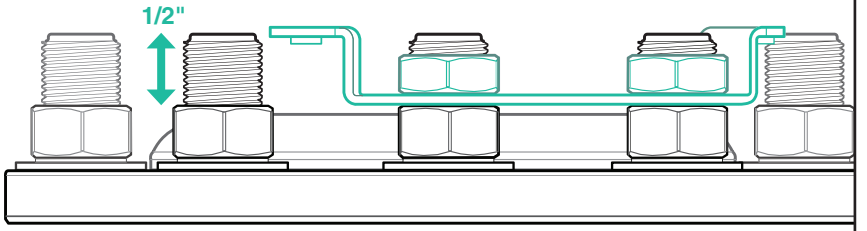
3. INSTALL BRACKETS

ⓐ Select the appropriate positions on the hub and verify that there is at least 1/2" protruding past the axle shaft nut prior to attaching bracket. Check that the torque of the lugs is correct. Slide the brackets over the studs and loosely thread the Aperia provided nuts to hold the brackets in place.



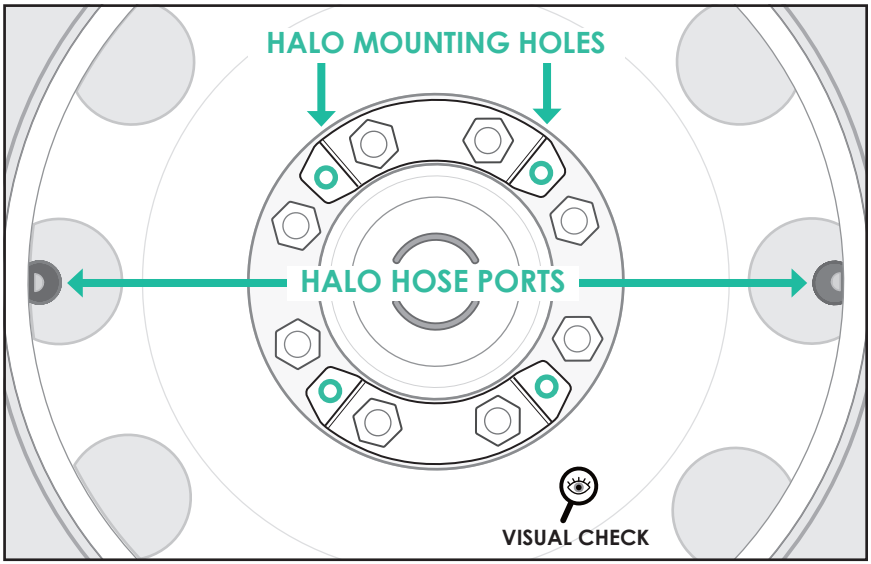
⚠ WARNING: Insufficient thread engagement may cause the bracket and Halo to detach from vehicle during driving and a rapid loss of tire pressure. There should be at least 1/2 inch protruding past the axle shaft nut prior to attaching bracket.

VISUAL CHECK



3. INSTALL BRACKETS (CONT'D)

ⓑ Lift the Halo into position and ensure that the Halo's mounting holes align with the threaded holes on each bracket's tabs. When properly positioned, the Halo hose ports should face appropriate valve stem on either side of the wheel.



ⓒ Once you have verified the positioning and fit of the Halo, use a torqure wrench to tighten the hub nuts; ensuring that at least one full hub thread is still visible.

For **5/8"** studs, the recommended torque is **50 ft-lbs (68 Nm)**.

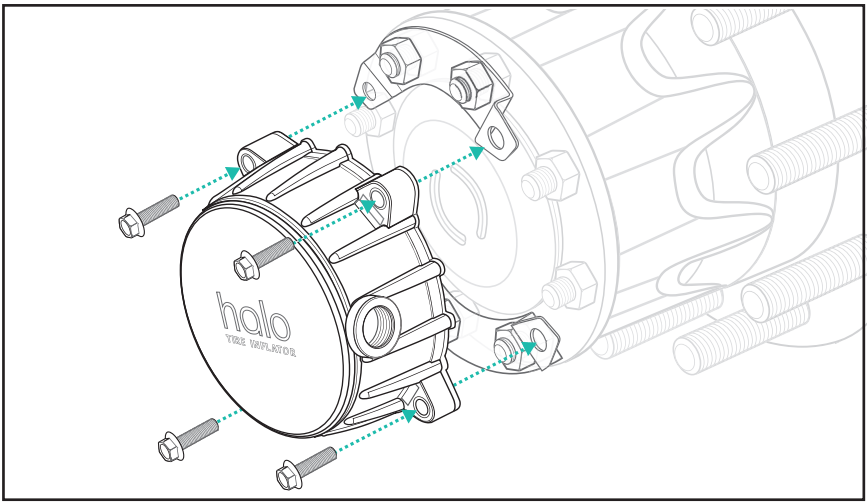
For **3/4"** studs, the recommended torque is **90 ft-lbs (122 Nm)**.

4. ATTACH HALO

ⓐ Place the Halo on the mounting brackets and verify that the Hose Ports are facing in the appropriate direction. Using **ONLY the Aperia-issued mounting screws** provided with the bracket kit, attach the Halo to the bracket. Loosely thread all four screws by hand prior to tightening any with a tool.

Tightening individual screws without starting the others may lead to cross threading or an off-center mount that may interfere with the proper seating of the final screws.

When all four screws have been seated and you have ensured the Halo is mounting flush and without obstruction; use a torque wrench to tighten the screws to 12 ft-lbs or 16 Nm.

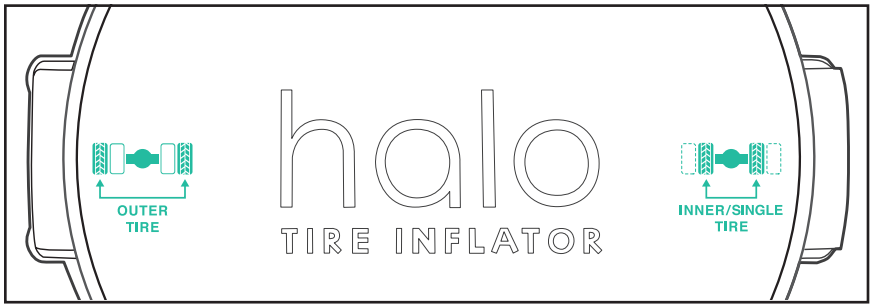


NOTICE: The recommended torque setting for the bolts attaching the Halo to the mounting brackets **12 ft-lbs (16 Nm)**.

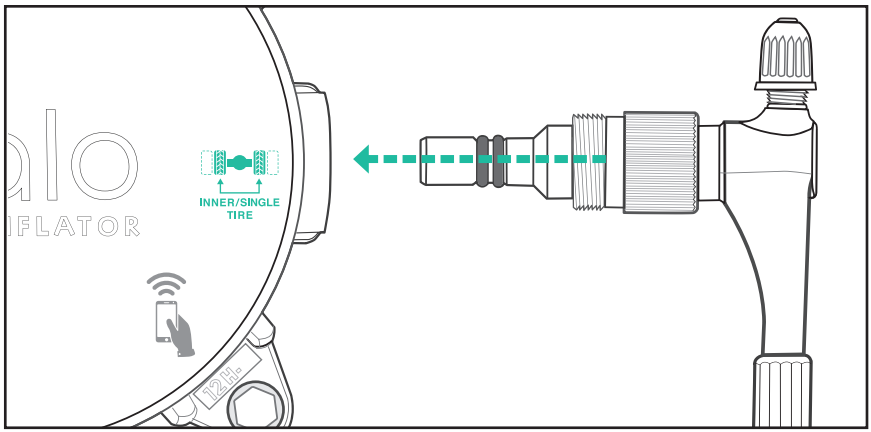
⚠ WARNING: Tightening to a higher or lower torque could cause the Halo to detach while the vehicle is moving which may lead to a rapid loss in tire pressure.

5. ATTACH HOSE(S) TO THE HALO

ⓐ Halo hose ports have been conveniently labeled to indicate the corresponding hose type and placement that should be used for each connection. You can find these labels on the outer face of each Halo unit.



ⓑ Starting with the **Inner Hose**, carefully insert the connector into the **Inner / Single Tire Halo port** and push gently until the threads engage. Turn the connector by hand until the threads are completely submerged into the Halo and the fit is snug. You will fully tighten this connection later when positioning the hose.

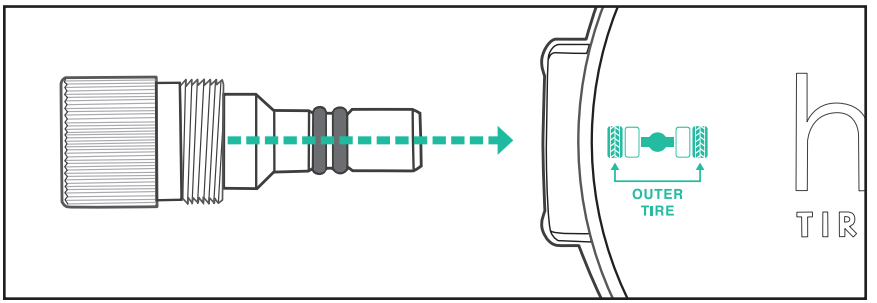


⚠ WARNING: Do not use excessive force when inserting the hose connector as this may damage the o-rings and compromise the pumps pressure seal.

5. ATTACH HOSE(S) TO THE HALO (CONT'D)

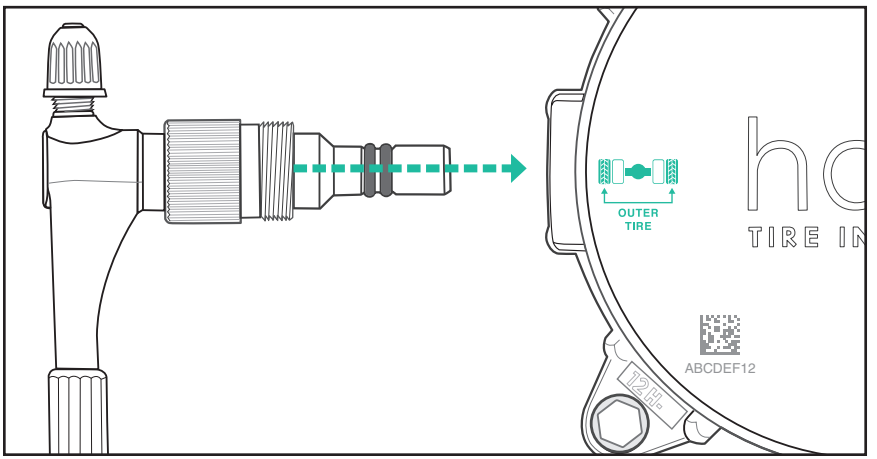
FOR WIDE-BASE/SINGLE WHEEL INSTALLATIONS

C Carefully insert the **Port Plug** connector into the **Outer Tire Halo port** and push gently until the threads engage. Turn the Plug head by hand until the threads are completely submerged into the Halo and use pliers to ensure the fit is snug.



FOR DUAL BASE INSTALLATIONS

C Align the **Outer Hose**, and carefully insert the connector into the **Outer Tire Halo port**. Push gently until the threads engage and turn the hose head by hand until the threads are completely submerged into the Halo and use pliers to ensure the fit is snug.

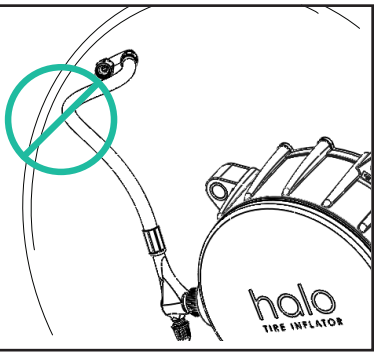


5. ATTACH HOSE(S) TO THE HALO (CONT'D)

d Verify that the hose fixture connections at the Halo and at the valve stem are snug and ensure that the swivels are rigid. Do not over-tighten.

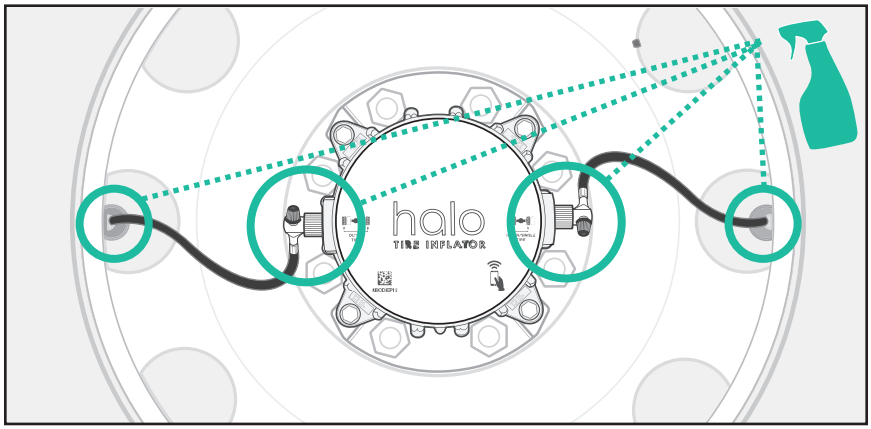
⚠ WARNING: A hose that is rubbing will cause wear to the hose or rim. Contact with any wheel surfaces may damage the hose's outer casing which will cause a rapid loss of tire pressure.

A hose that is "stretched" or installed with too much tension may lead to a rapid tire leak.



6. CHECK AIR SEAL

Use a soap solution (simply mix a small amount of dish soap with water in a spray bottle) to check the integrity of the seal at each connection. Bubbles forming will indicate an air leak; signifying a poor connection.



6. FINAL CHECK

- [x] Verify that the bracket nuts and mounting screws are fully attached and match the Torque values specified.
- [x] Check that the Ports are connected to the appropriate tires (as specified on the Halo face).
- [x] Spray the soapy water mixture over each connection point of the hoses and look for new bubble generation that could indicate a leak.
- [x] While spraying, lightly pull and wiggle on the hoses to ensure air is not escaping from the tire valve stem or hose crimps.

Your Halo installation is now complete.

Please review the Maintenance section (pg 54) for information on how to properly maintain the Halo system.

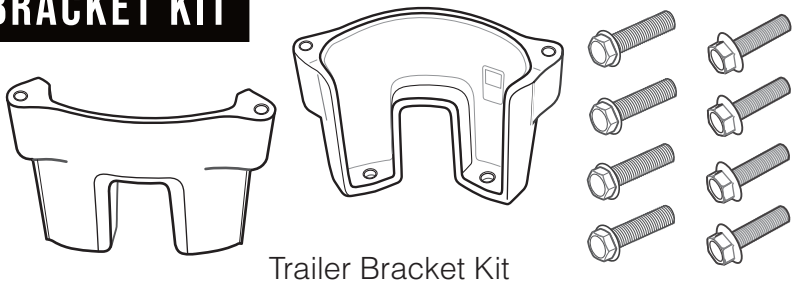
TRAILER INSTALLATION (STANDARD)

SYSTEM COMPONENTS:

The following components are required for a complete wheel-end installation.

HALO

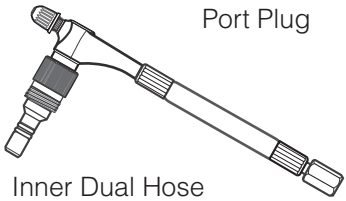
BRACKET KIT



Trailer Bracket Kit

HOSE KIT

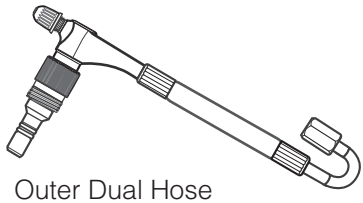
Port Plug



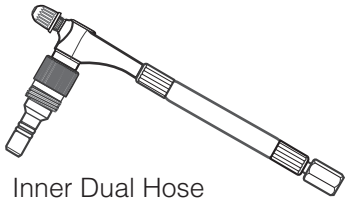
Inner Dual Hose

Kit for Single Tires

OR



Outer Dual Hose



Inner Dual Hose

Kit for Dual Tires

START

INSTALLATION TOOLS

REQUIRED FOR ALL INSTALLATIONS

- Torque wrench (capable of measuring 10 to 50 ft-lb)
- Socket wrench
- Socket extension
- Socket for hub nuts/bolts (varies by vehicle)
- 1/2" (13mm) hex socket
- Channellock pliers
- Soapy water mixture in a spray bottle

REQUIRED FOR SOME INSTALLATIONS

- Impact driver and socket for hub/wheel nuts
- Torque wrench (capable of measuring 100-250 ft-lb)

RECOMMENDED

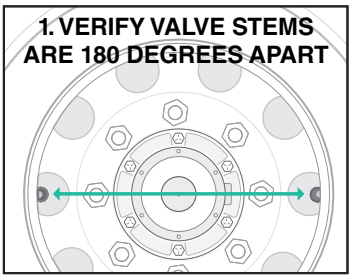
- Permanent bright colored marker/paint pen

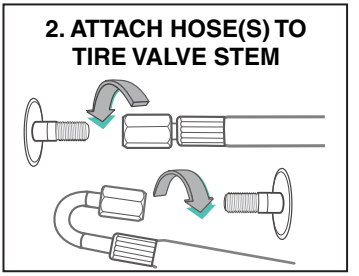
⚠ WARNING: Potential electrostatic charging hazard. Do not install the inflator in a hazardous environment.

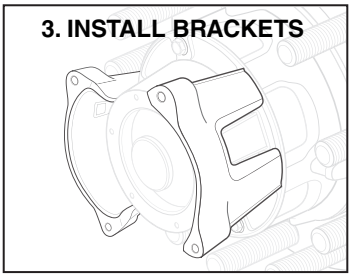
⚠ WARNING: Use ONLY Aperia authorized replacement parts. Use of substitute, modified or replacement parts not authorized by Aperia may not meet Aperia's specifications and may result in failure of the part, loss of vehicle control and possibly injury or death. To obtain authorized replacement parts contact customer support.

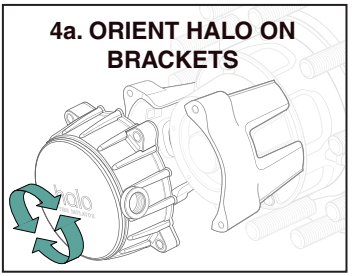
INSTALLATION OVERVIEW

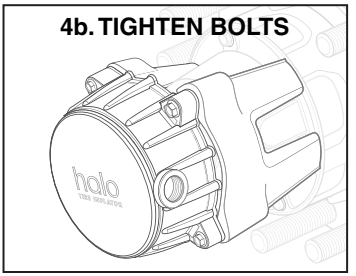
A general overview of the installation steps for the Halo Tire Inflator are shown below. Do not install without referring to the "Install" section for complete details.

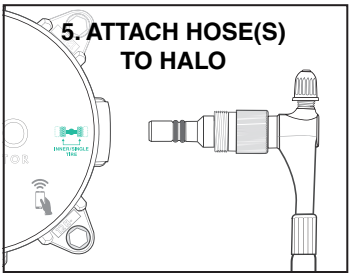


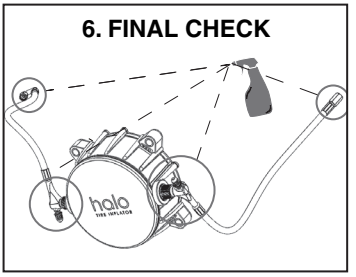












INSTALL OVERVIEW

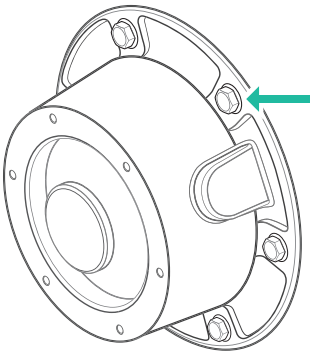
1. PREPARE THE VEHICLE

ⓐ Inspect the tires and valve stems to ensure they are in good condition.

VISUAL CHECK

> ⚠ **WARNING:** A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. A tire in poor condition or with punctures may lead to a blowout.

ⓑ Before installing the brackets, confirm that your hub cap manufacturer's bolt torque specification is at or above **16 ft-lb**.



DO NOT install the Halo on a hub cap that has a torque rating below **16 ft-lb or 22 Nm**.

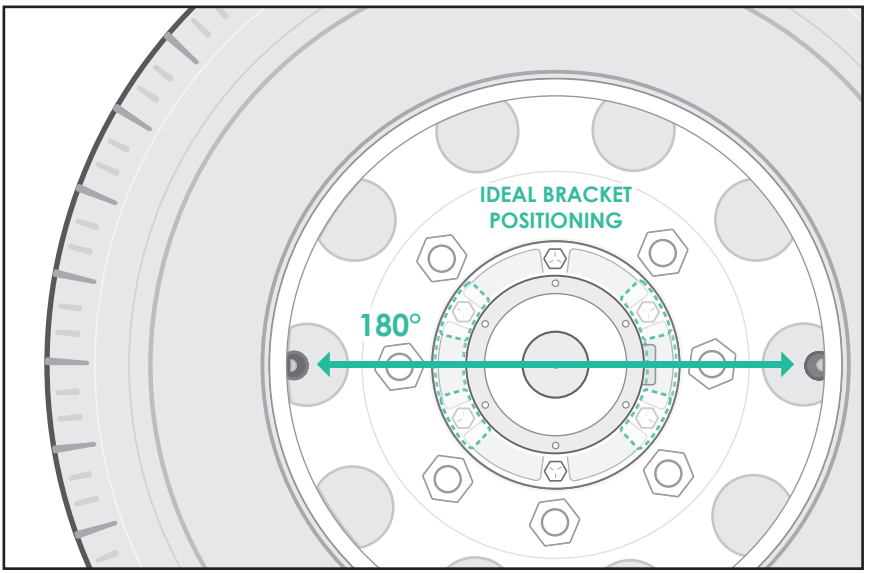
> ⚠ **WARNING:** Overtightening hub cap bolts past the manufacturers recommended torque may cause damage to the hub cap, hub cap seal, or Halo bracket resulting in loss of axle lubricant and bearing failure or the Halo falling off during driving.

Plastic hubcaps must be replaced with metal hubcaps.

ⓒ Check label on the rear of the Halo to confirm Halo max pressure does not exceed wheel rim rating.

1. PREPARE THE VEHICLE (CONT'D)

d The Halo mounting brackets are fabricated to mount on to your hub caps using the existing bolt locations. Plan your installation so that the Halo hose port will be facing the appropriate valve stem. If you are installing on dual tires, **ensure that the valve stems are oriented 180 degrees apart** - on oppossing sides of the wheel.

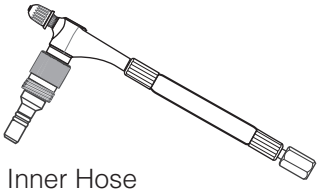


For the best hose fit, position the brackets perpendicular to the the path between the two valve stems. Your goal is to mount the brackets as close as possible to the configuration in the illustration above.

2. ATTACH HOSE(S) TO TIRE VALVE STEM(S)

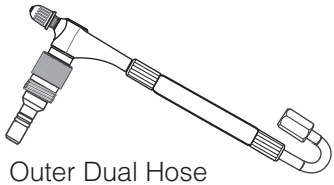
KIT FOR WIDE-BASE

Port Plug

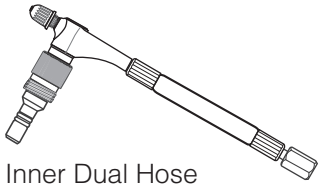


Inner Hose

KIT FOR DUAL BASE

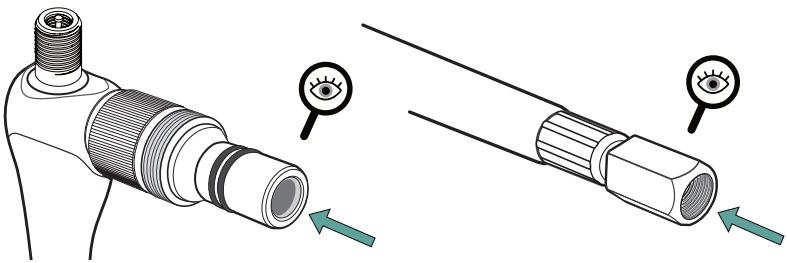


Outer Dual Hose

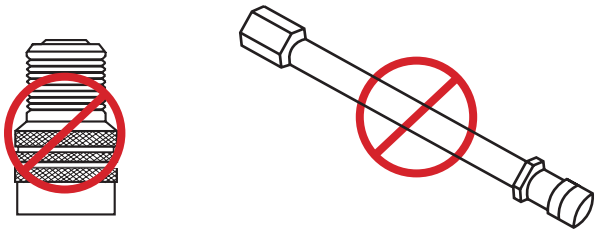


Inner Dual Hose

⚠ WARNING: Before installing the hoses, check both hose-ends for debris or damaged o-ring or gasket. A damaged or contaminated hose o-ring or gasket may cause a tire leak.



⚠ WARNING: Do not add/use pass-through valve stem caps or valve stem extenders as these greatly increase the risk of a tire leak.

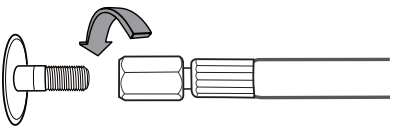


2. ATTACH HOSE(S) TO TIRE VALVE STEM(S) (CONT'D)

ⓐ Carefully adjust the hose(s) at the swivel points in order to connect to the appropriate valve stem(s) and allow the hose and Halo connector(s) to hang loosely for later. Verify that the hoses and connections will not be stressed and that positioning will at no point be in contact with the wheel face, hand holes, mounting flange, or wheel bead seat.

SINGLE / WIDE-BASE

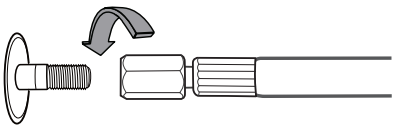
❶ Attach the **connector** to the **tire's valve stem.**



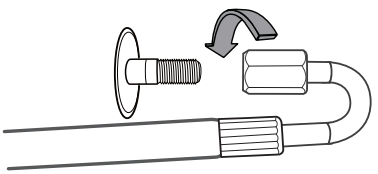
SOUND CHECK:
While tightening the hose swivel, listen for the brief release of air to stop. This indicates that the gasket is contacting the valve stem. **Then, continue to turn an additional 3/4 turn.**

DUAL INSTALLATION

❶ Attach the **inner dual hose** to the **inner tire's valve stem.**

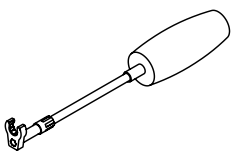


❷ Attach the **outer dual hose** to the **outer tire's valve stem.**



Aperia recommends using our Hose Install Tool to more easily access the hose swivel. Order directly from Aperia's e-commerce page by visiting:

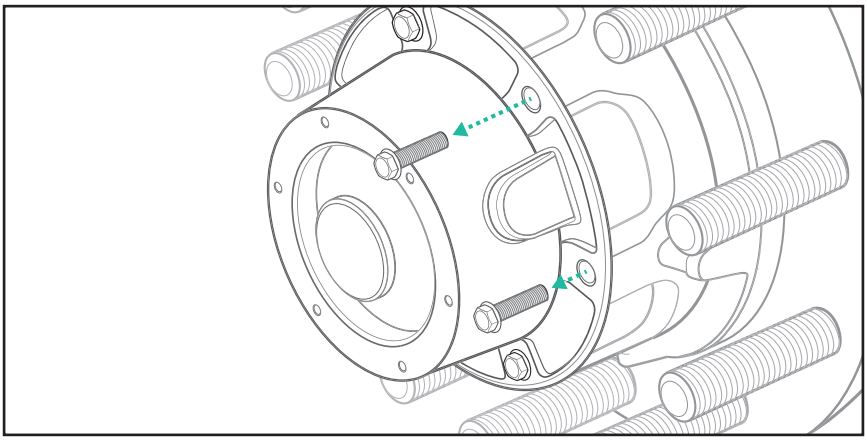
shop.aperiatech.com/collections/service-parts



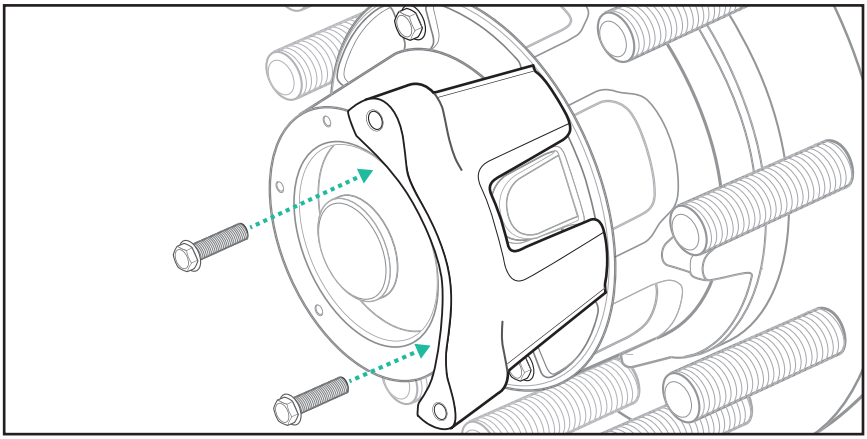
⚠ WARNING: A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. **Only use the swivel for tightening.** Twisting of the hose to tighten the connection may damage the seal and cause a tire leak.

3. INSTALL BRACKETS

ⓐ After determining the best placement for the Halo mounting brackets; remove the two hub screws where you will be positioning the first bracket. These screws can be discarded.



ⓑ Slide the bracket into place and ensure that the fit is not obstructed by the drain or other housing features. **Using the new replacement screws from the kit**, loosely thread the provided hub bolts into place and snug up the bolts so that the bracket is flush with the cap base.

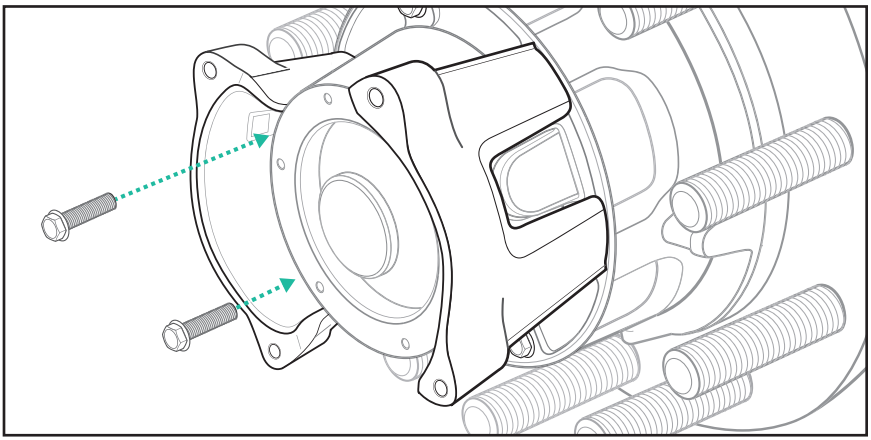


3. INSTALL BRACKETS (CONT'D)

c Once you have verified that the bracket will maintain a solid footing on the hub cap; proceed with tightening the screws to a torque of **16 ft-lbs or 22 Nm**.

> ⚠ **WARNING:** Fasteners must be tightened to the proper torque. Failure to tighten the fasteners may result in the Halo detaching from the vehicle during driving.
>
> Failure to replace the existing hub cap screws with the longer Aperia issued screws may lead to the Halo detaching from the vehicle during driving. Ensure that at least six threads engage with the hub when installed.

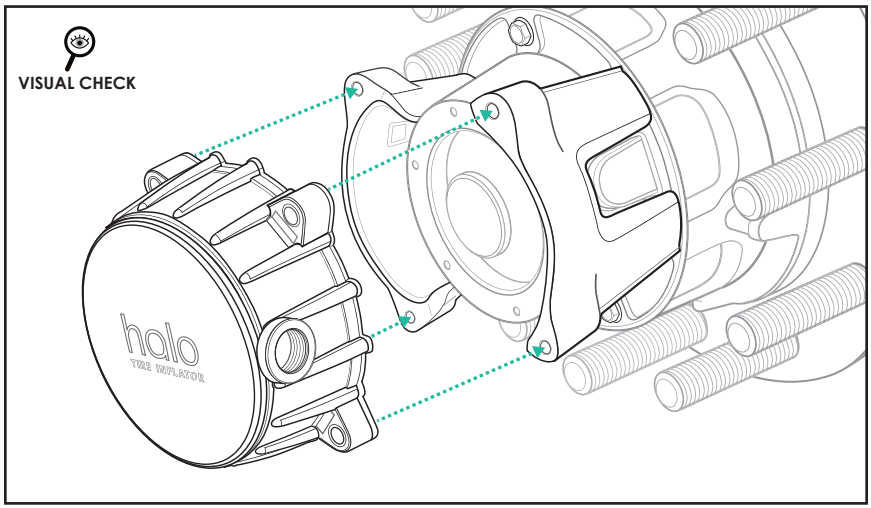
d Remove the bolt pair on the opposing side of the hub cap and discard. Attach the second bracket, and snug up the bolts.



> **NOTICE:** Only remove screws for one half of the hub flange at a time and install the first bracket before continuing. Removing all screws at once may break the seal and cause the hub cap to leak.

3. INSTALL BRACKETS (CONT'D)

e Lift the Halo into position and ensure that the Halo's mounting holes align with the threaded holes on each of the bracket's tabs. Verify that no obstructions will block the path and placement of the Halo and hoses.



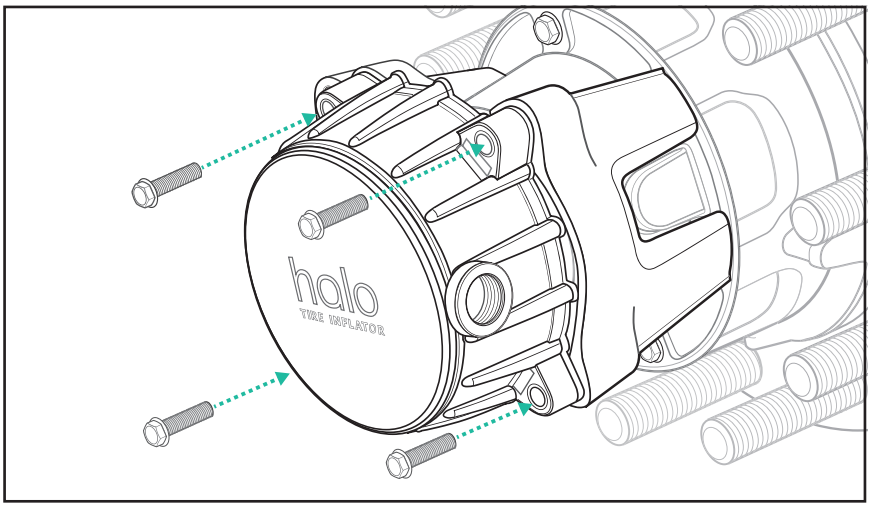
f Once you have verified the fit of the Halo on the brackets; put the Halo aside and proceed with tightening the second bracket's screws to a torque of **16 ft-lbs or 22 Nm**.

4. ATTACH HALO

ⓐ Place the Halo on the mounting brackets and verify that the Hose Ports are facing in the appropriate direction. Using **ONLY the Aperia-issued mounting screws** provided with the bracket kit, attach the Halo to the bracket. Loosely thread all four screws by hand prior to tightening any with a tool.

Tightening individual screws without starting the others may lead to cross threading or an off-center mount that may interfere with the proper seating of the final screws.

When all four screws have been seated and you have ensured the Halo is mounting flush and without obstruction; use a torque wrench to tighten the screws to 12 ft-lbs or 16 Nm.

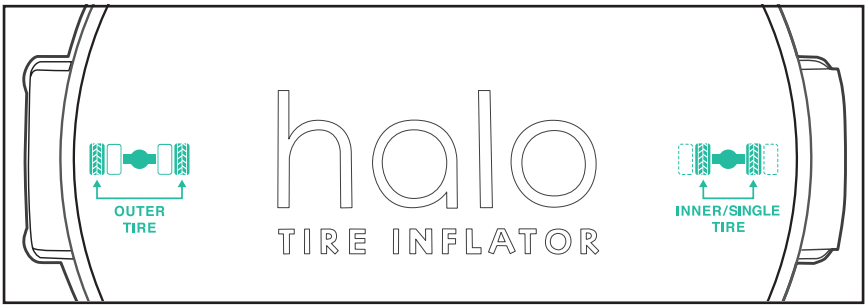


NOTICE: The recommended torque setting for the bolts attaching the Halo to the mounting brackets **12 ft-lbs or 16 Nm**.

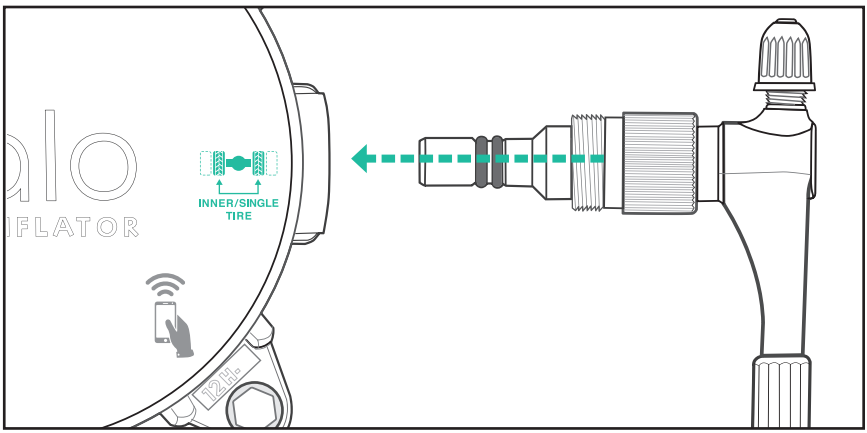
⚠ WARNING: Tightening to a higher or lower torque could cause the Halo to detach while the vehicle is moving which may lead to a rapid loss in tire pressure.

5. ATTACH HOSE(S) TO THE HALO

ⓐ Halo hose ports have been conveniently labeled to indicate the corresponding hose type and placement that should be used for each connection. You can find these labels on the outer face of each Halo unit.



ⓑ Starting with the **Inner Hose**, carefully insert the connector into the **Inner / Single Tire Halo port** and push gently until the threads engage. Turn the connector by hand until the threads are completely submerged into the Halo and the fit is snug. You will fully tighten this connection later when positioning the hose.

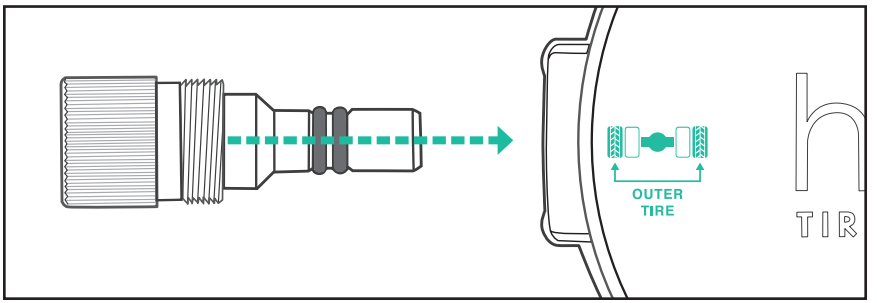


⚠ WARNING: Do not use excessive force when inserting the hose connector as this may damage the o-rings and compromise the pumps pressure seal.

5. ATTACH HOSE(S) TO THE HALO (CONT'D)

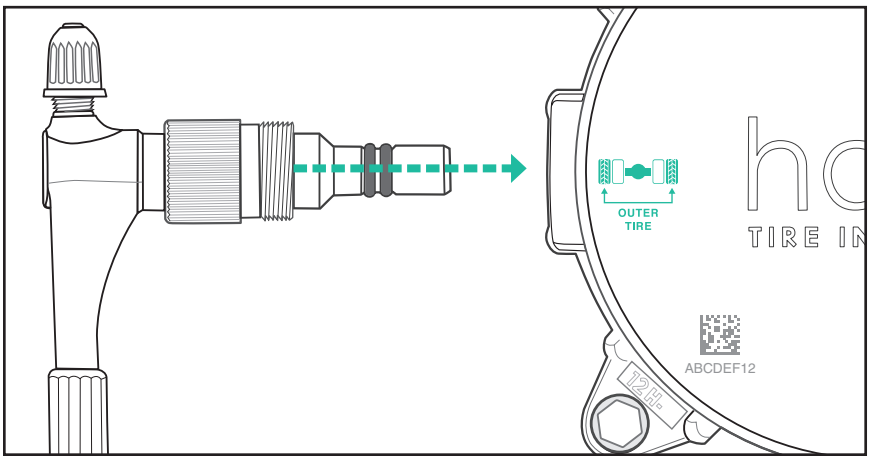
FOR WIDE-BASE/SINGLE WHEEL INSTALLATIONS

Ⓒ Carefully insert the **Port Plug** connector into the **Outer Tire Halo port** and push gently until the threads engage. Turn the Plug head by hand until the threads are completely submerged into the Halo and use pliers to ensure the fit is snug.



FOR DUAL BASE INSTALLATIONS

Ⓒ Align the **Outer Hose**, and carefully insert the connector into the **Outer Tire Halo port**. Push gently until the threads engage and turn the hose head by hand until the threads are completely submerged into the Halo and use pliers to ensure the fit is snug.

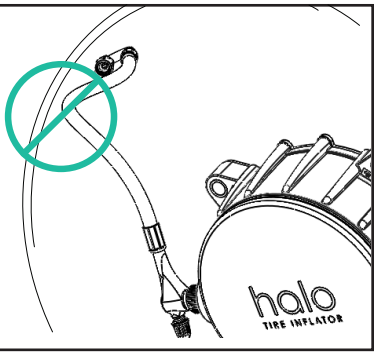


5. ATTACH HOSE(S) TO THE HALO (CONT'D)

d Verify that the hose fixture connections at the Halo and at the valve stem are snug and ensure that the swivels are rigid. Do not over-tighten.

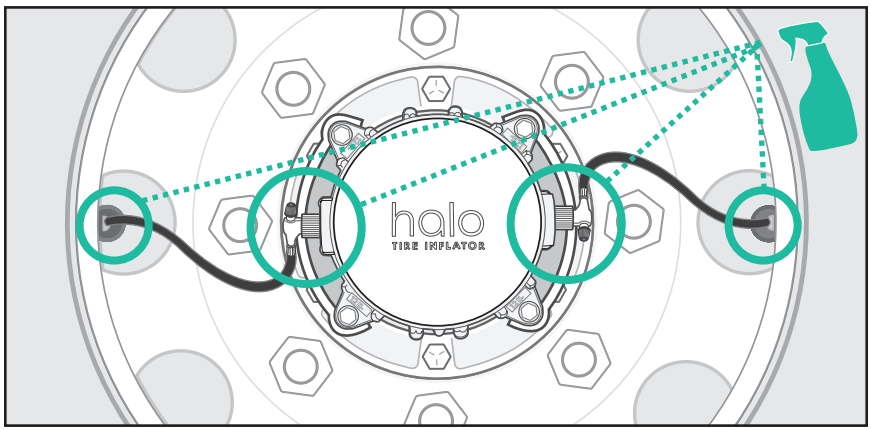
⚠ WARNING: A hose that is rubbing will cause wear to the hose or rim. Contact with any wheel surfaces may damage the hose's outer casing which will cause a rapid loss of tire pressure.

A hose that is "stretched" or installed with too much tension may lead to a rapid tire leak.



6. CHECK AIR SEAL

Use a soap solution (simply mix a small amount of dish soap with water in a spray bottle) to check the integrity of the seal at each connection. Bubbles forming will indicate an air leak; signifying a poor connection.



6. FINAL CHECK

- [x] Verify that the bracket nuts and mounting screws are fully attached and match the Torque values specified.
- [x] Check that the Ports are connected to the appropriate tires (as specified on the Halo face).
- [x] Spray the soapy water mixture over each connection point of the hoses and look for new bubble generation that could indicate a leak.
- [x] While spraying, lightly pull and wiggle on the hoses to ensure air is not escaping from the tire valve stem or hose crimps.

Your Halo installation is now complete.

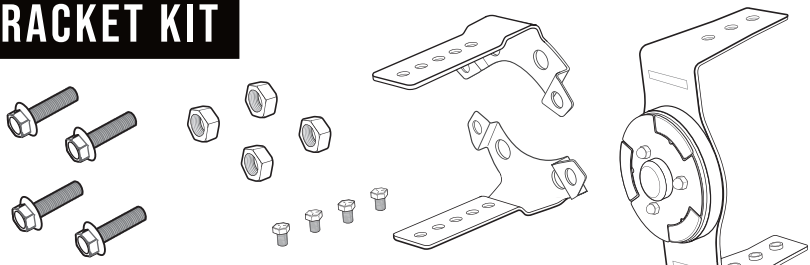
Please review the Maintenance section (pg 54) for information on how to properly maintain the Halo system.

TRACTOR INSTALLATION (WITH FLOWBELOW) SYSTEM COMPONENTS:

The following components are required for a complete wheel-end installation.

HALO

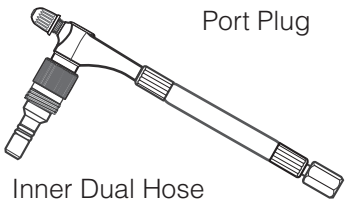
BRACKET KIT



FlowBelow Hub Mounted Bracket Kit

HOSE KIT

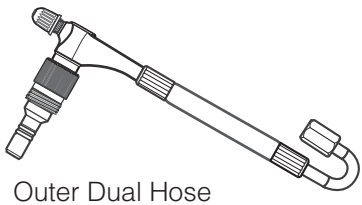
Port Plug



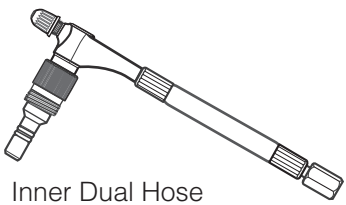
Inner Dual Hose

Kit for Single Tires

OR



Outer Dual Hose



Inner Dual Hose

Kit for Dual Tires

START

INSTALLATION TOOLS

REQUIRED FOR ALL INSTALLATIONS

- Torque wrench (capable of measuring 10 to 50 ft-lb)
- Socket wrench
- Socket extension
- Socket for hub nuts/bolts (varies by vehicle)
- 1/2" (13mm) hex socket
- Channellock pliers
- Soapy water mixture in a spray bottle

REQUIRED FOR SOME INSTALLATIONS

- Impact driver and socket for hub/wheel nuts
- Torque wrench (capable of measuring 100-250 ft-lb)

RECOMMENDED

- Permanent bright colored marker/paint pen

⚠ WARNING: Potential electrostatic charging hazard. Do not install the inflator in a hazardous environment.

⚠ WARNING: Use ONLY Aperia authorized replacement parts. Use of substitute, modified or replacement parts not authorized by Aperia may not meet Aperia's specifications and may result in failure of the part, loss of vehicle control and possibly injury or death. To obtain authorized replacement parts contact customer support.

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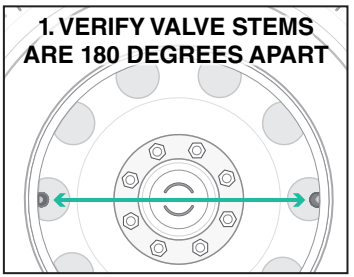
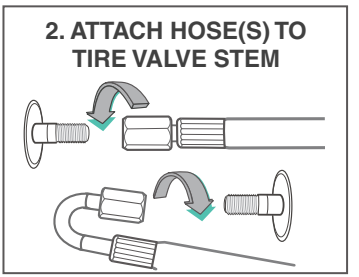
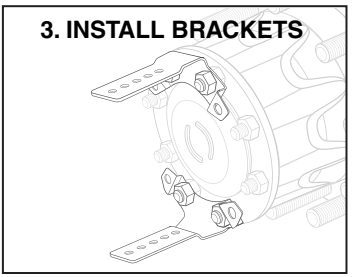
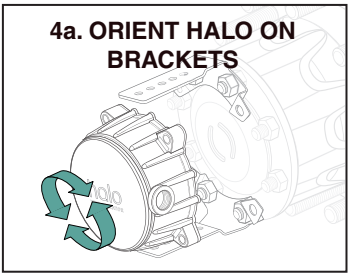
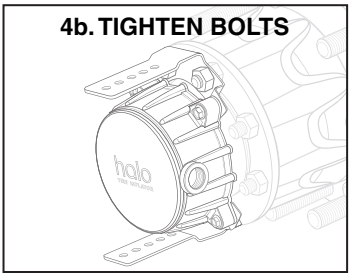
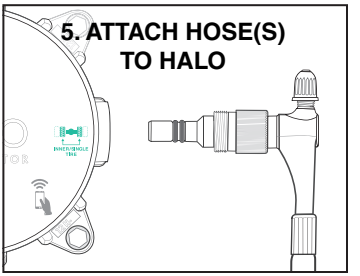


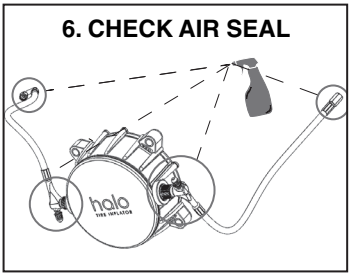


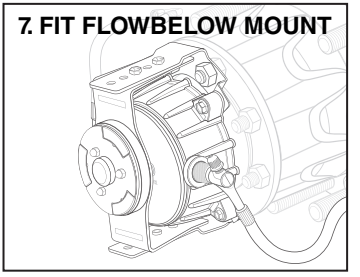












INSTALL OVERVIEW

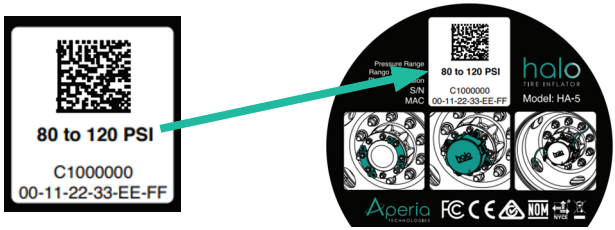
1. PREPARE THE VEHICLE

ⓐ Inspect the tires and valve stems to ensure they are in good condition.

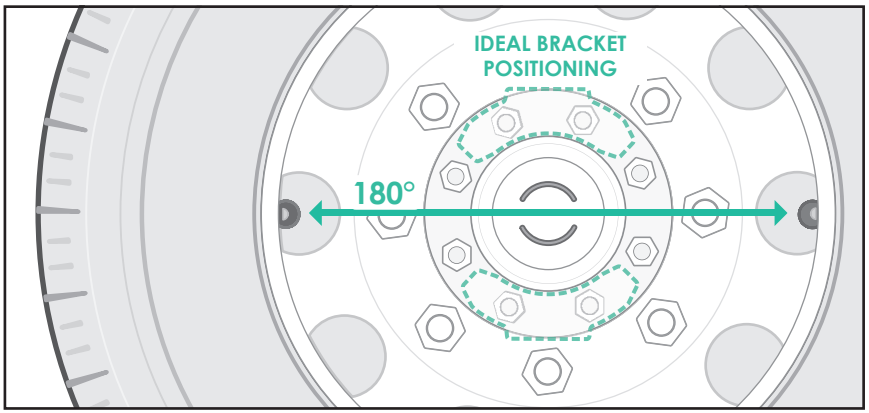
VISUAL CHECK

> ⚠ **WARNING:** A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. A tire in poor condition or with punctures may lead to a blowout.

ⓑ Check label on the rear of the Halo to confirm Halo max pressure does not exceed wheel rim rating.



ⓒ Plan your installation so that the Halo hose port will be facing the appropriate valve stem. If you are installing on dual tires, ensure that the **valve stems** are oriented 180 degrees apart - on oppossing sides of the wheel.

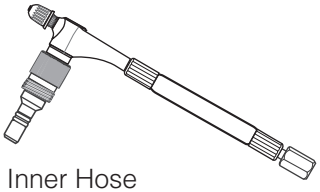


Position the brackets lengthwise; following the path between the two valve stems. Your goal is to mount the brackets as close as possible to parallel along this path.

2. ATTACH HOSE(S) TO TIRE VALVE STEM(S)

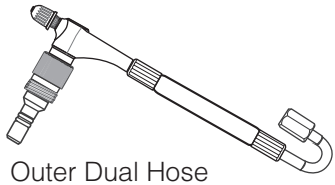
KIT FOR WIDE-BASE

Port Plug

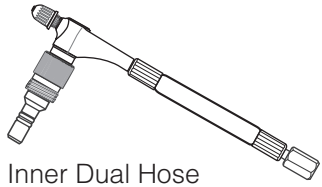


Inner Hose

KIT FOR DUAL BASE

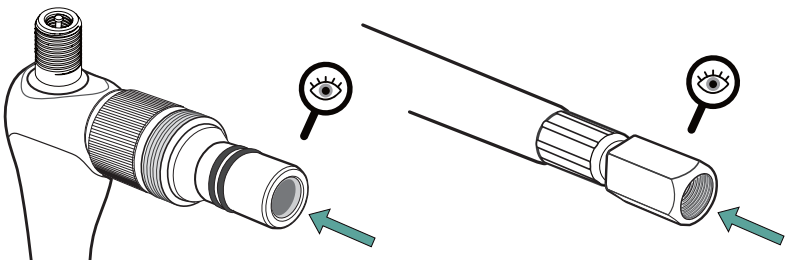


Outer Dual Hose

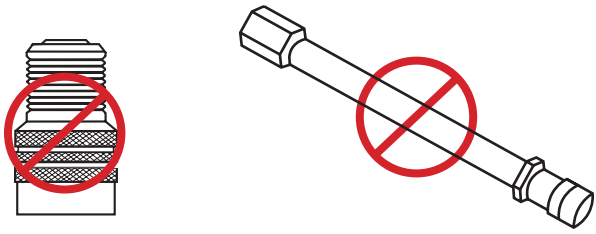


Inner Dual Hose

⚠ WARNING: Before installing the hoses, check both hose-ends for debris or damaged o-ring or gasket. A damaged or contaminated hose o-ring or gasket may cause a tire leak.



⚠ WARNING: Do not add/use pass-through valve stem caps or valve stem extenders as these greatly increase the risk of a tire leak.



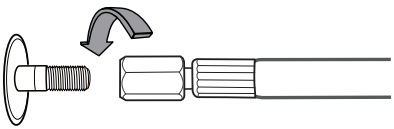
INSTALL

2. ATTACH HOSE(S) TO TIRE VALVE STEM(S) (CONT'D)

ⓐ Carefully adjust the hose(s) at the swivel points in order to connect to the appropriate valve stem(s) and allow the hose and Halo connector(s) to hang loosely for later. Verify that the hoses and connections will not be stressed and that positioning will at no point be in contact with the wheel face, hand holes, mounting flange, or wheel bead seat.

SINGLE / WIDE-BASE

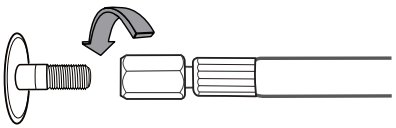
❶ Attach the **connector** to the **tire's valve stem.**



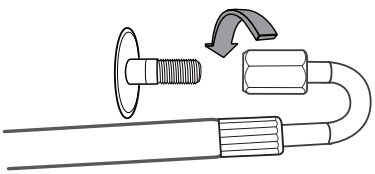
SOUND CHECK:
While tightening the hose swivel, listen for the brief release of air to stop. This indicates that the gasket is contacting the valve stem. **Then, continue to turn an additional 3/4 turn.**

DUAL INSTALLATION

❶ Attach the **inner dual hose** to the **inner tire's valve stem.**

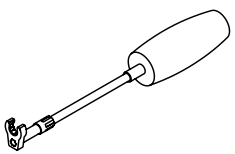


❷ Attach the **outer dual hose** to the **outer tire's valve stem.**



Aperia recommends using our Hose Install Tool to more easily access the hose swivel. Order directly from Aperia's e-commerce page by visiting:

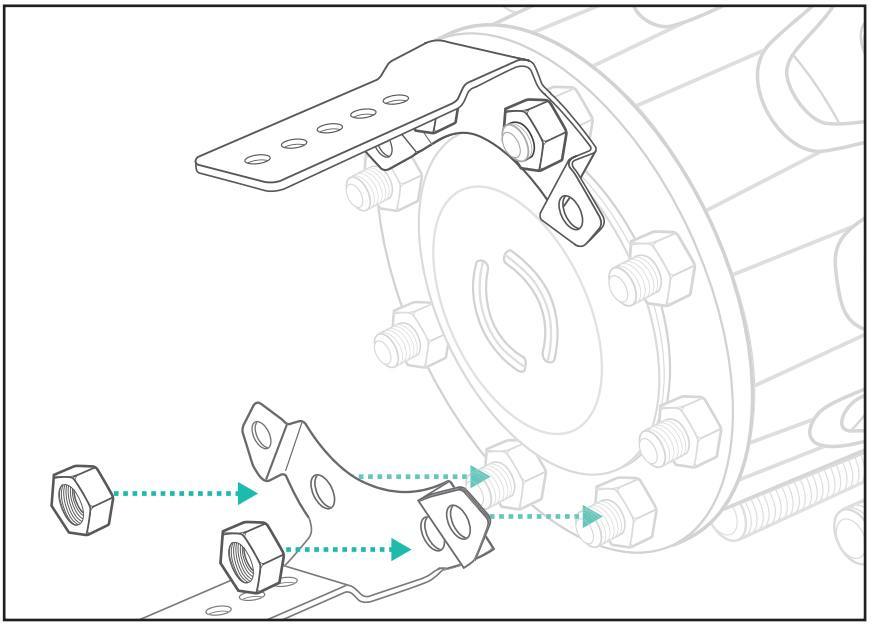
shop.aperiatech.com/ collections/service-parts



⚠ WARNING: A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. **Only use the swivel for tightening.** Twisting of the hose to tighten the connection may damage the seal and cause a tire leak.

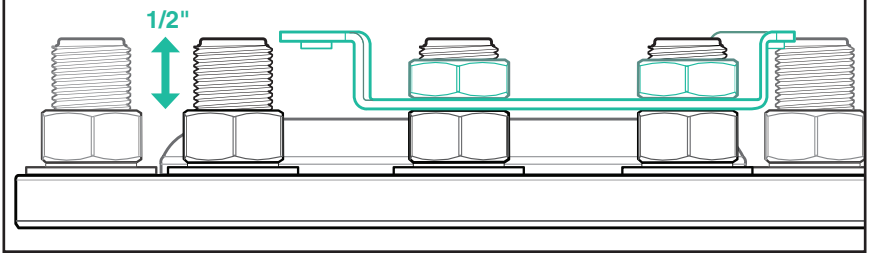
3. INSTALL BRACKETS

ⓐ Select the appropriate positions on the hub and verify that there is at least 1/2" protruding past the axle shaft nut prior to attaching bracket. Check that the torque of the lugs is correct. Slide the brackets over the studs and loosely thread the Aperia provided nuts to hold the brackets in place.



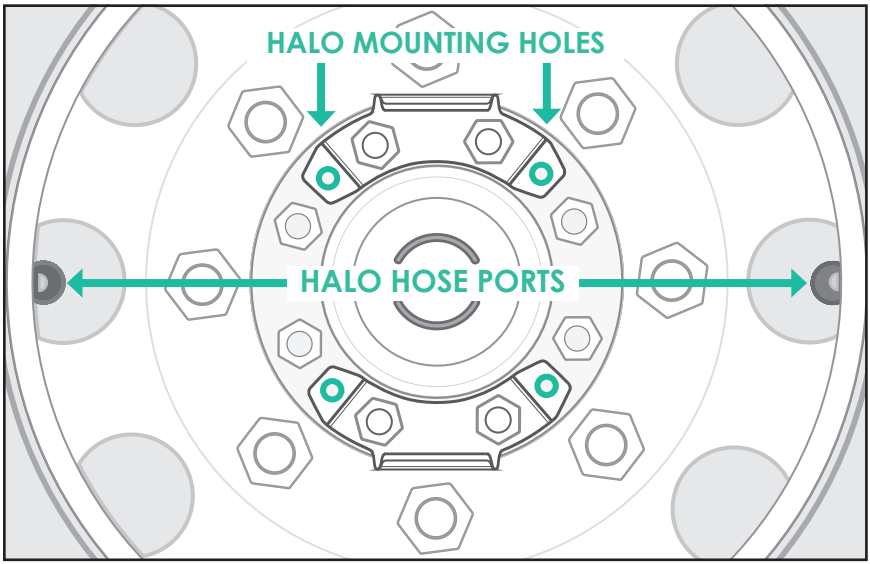
⚠WARNING: Insufficient thread engagement may cause the bracket and Halo to detach from vehicle during driving and a rapid loss of tire pressure. There should be at least 1/2 inch protruding past the axle shaft nut prior to attaching bracket.

VISUAL CHECK



3. INSTALL BRACKETS (CONT'D)

b Lift the Halo into position and ensure that the Halo's mounting holes align with the threaded holes on each bracket's tabs. When properly positioned, the Halo hose ports should face appropriate valve stem on either side of the wheel.



c Once you have verified the positioning and fit of the Halo, use a torqure wrench to tighten the hub nuts; ensuring that at least one full hub thread is still visible.

For **5/8"** studs, the recommended torque is **50 ft-lbs (68 Nm)**.

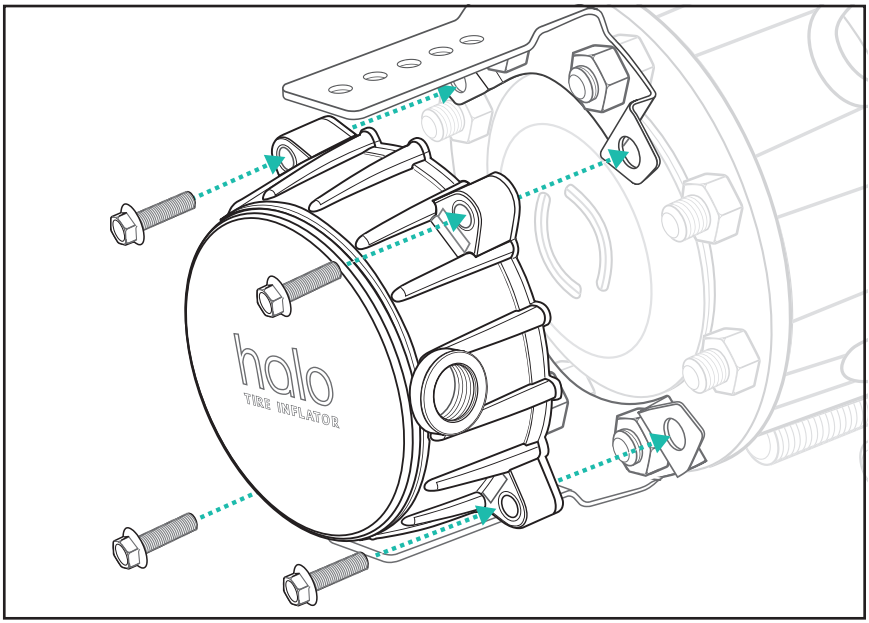
For **3/4"** studs, the recommended torque is **90 ft-lbs (122 Nm)**.

4. ATTACH HALO

ⓐ Place the Halo on the mounting brackets and verify that the Hose Ports are facing in the appropriate direction. Using **ONLY the Aperia-issued mounting screws** provided with the bracket kit, attach the Halo to the bracket. Loosely thread all four screws by hand prior to tightening any with a tool.

Tightening individual screws without starting the others may lead to cross threading or an off-center mount that may interfere with the proper seating of the final screws.

When all four screws have been seated and you have ensured the Halo is mounting flush and without obstruction; use a torque wrench to tighten the screws to 12 ft-lbs or 16 Nm.

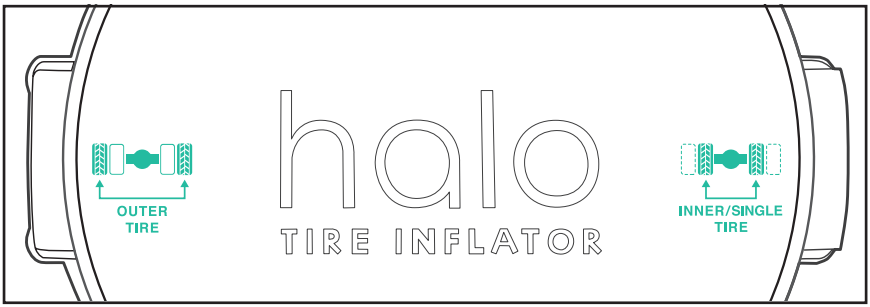


NOTICE: The recommended torque setting for the bolts attaching the Halo to the mounting brackets **12 ft-lbs (16Nm)**.

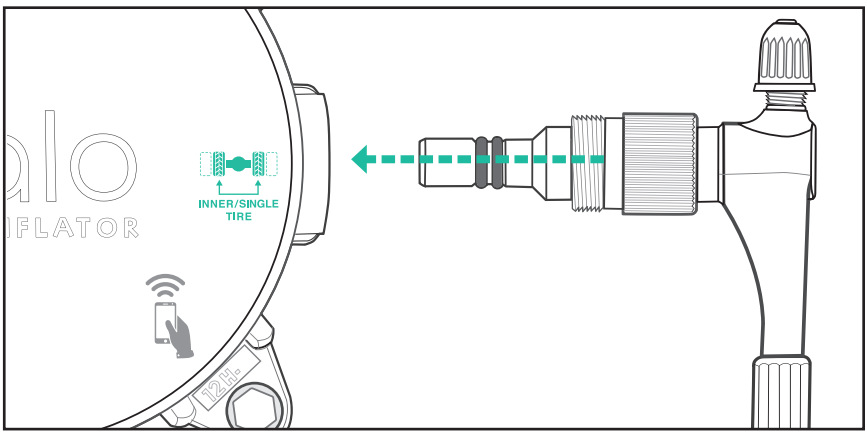
⚠ WARNING: Tightening to a higher or lower torque could cause the Halo to detach while the vehicle is moving which may lead to a rapid loss in tire pressure.

5. ATTACH HOSE(S) TO THE HALO

ⓐ Halo hose ports have been conveniently labeled to indicate the corresponding hose type and placement that should be used for each connection. You can find these labels on the outer face of each Halo unit.



ⓑ Starting with the **Inner Hose**, carefully insert the connector into the **Inner / Single Tire Halo port** and push gently until the threads engage. Turn the connector by hand until the threads are completely submerged into the Halo and the fit is snug. You will fully tighten this connection later when positioning the hose.

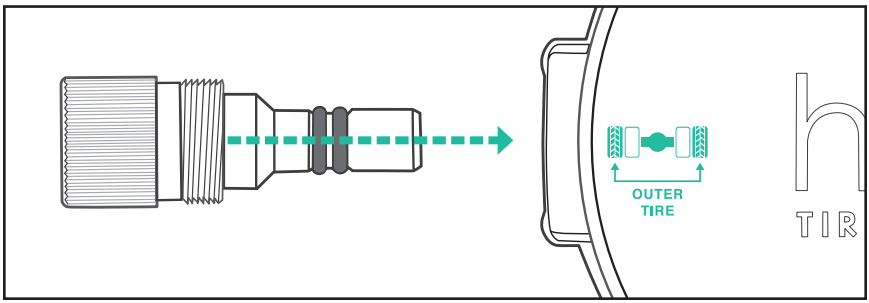


⚠ WARNING: Do not use excessive force when inserting the hose connector as this may damage the o-rings and compromise the pumps pressure seal.

5. ATTACH HOSE(S) TO THE HALO (CONT'D)

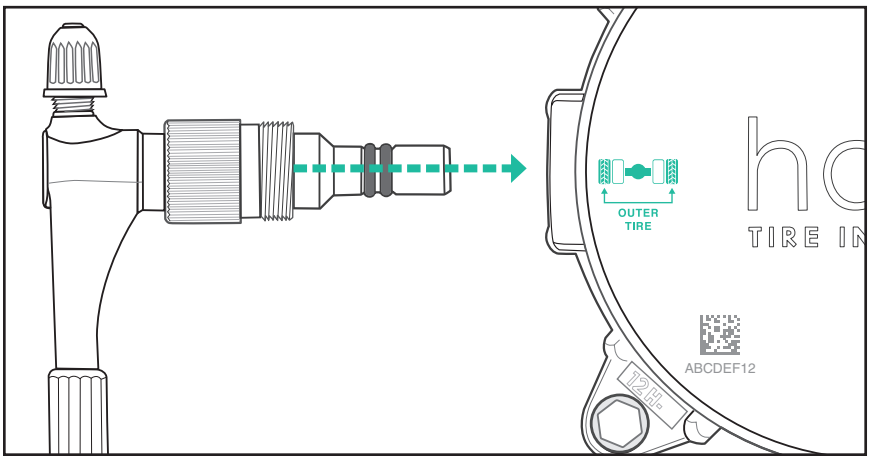
FOR WIDE-BASE/SINGLE WHEEL INSTALLATIONS

Ⓒ Carefully insert the **Port Plug** connector into the **Outer Tire Halo port** and push gently until the threads engage. Turn the Plug head by hand until the threads are completely submerged into the Halo and use pliers to ensure the fit is snug.



FOR DUAL BASE INSTALLATIONS

Ⓒ Align the **Outer Hose**, and carefully insert the connector into the **Outer Tire Halo port**. Push gently until the threads engage and turn the hose head by hand until the threads are completely submerged into the Halo and use pliers to ensure the fit is snug.

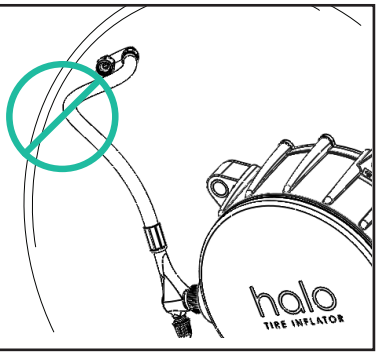


5. ATTACH HOSE(S) TO THE HALO (CONT'D)

b Verify that the hose fixture connections at the Halo and at the valve stem are snug and ensure that the swivels are rigid. Do not over-tighten.

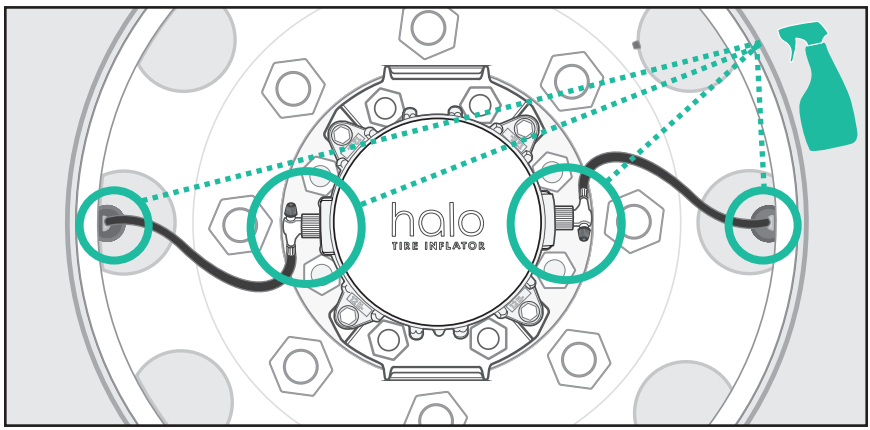
⚠ WARNING: A hose that is rubbing will cause wear to the hose or rim. Contact with any wheel surfaces may damage the hose's outer casing which will cause a rapid loss of tire pressure.

A hose that is "stretched" or installed with too much tension may lead to a rapid tire leak.



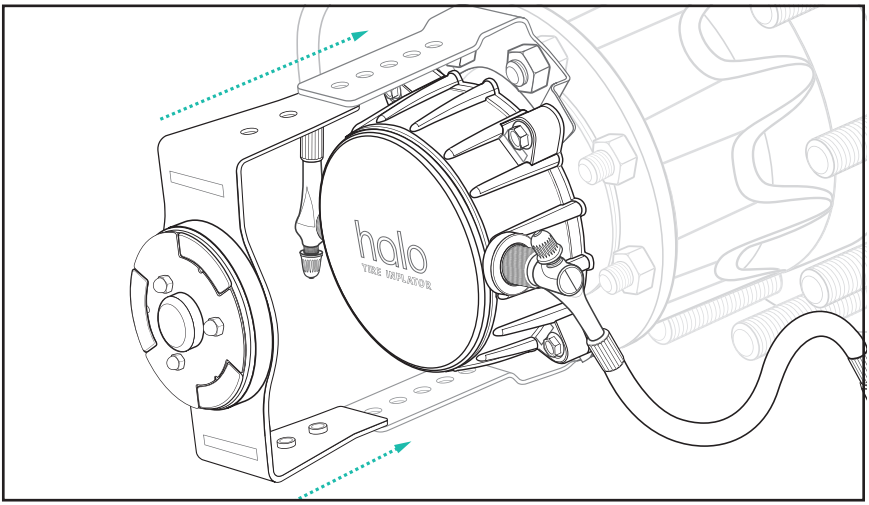
6. CHECK AIR SEAL

Use a soap solution (simply mix a small amount of dish soap with water in a spray bottle) to check the integrity of the seal at each connection. Bubbles forming will indicate an air leak; signifying a poor connection.



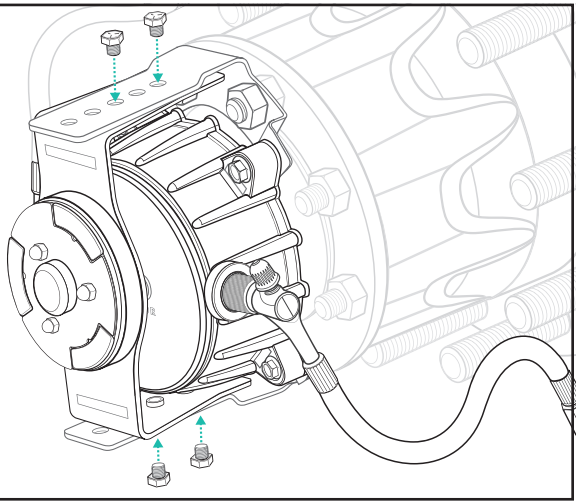
7. FIT FLOWBELOW MOUNTING BRACKET

ⓐ Position the latch assembly between the brackets so the latch face is flush with the outside lip of the wheel.



ⓑ Loosely secure the latch assembly to the brackets using the Aperia provided 1/4"-20 bolts. Place a straight edge across the latch face to verify that it is flush with the outside lip of the wheel. Torque each bolt to 10 ft-lbs.

FlowBelow Bracket Screw Torque:
10 ft-lb
(13.5 N m)



7. FIT FLOWBELOW MOUNTING BRACKET (CONT'D)

Ⓒ Orient the wheel cover so that the wheel cover plate fits over the latch. Push the center of the wheel cover into the latch and rotate the wheel cover until the latch snaps closed and the cover is held securely in place.

For additional information regarding FlowBelow installation and maintenance, refer to your FlowBelow Installation Manual.

NOTICE: The recommended torque setting for the bolts attaching the FlowBelow bracket to the mounting brackets is **10 ft-lbs**.

⚠ WARNING: Tightening to a higher or lower torque could cause the FlowBelow components to detach while the vehicle is moving.

8. FINAL CHECK

- ☑ Verify that the bracket nuts and mounting screws are fully attached and match the Torque values specified.
- ☑ Check that the Ports are connected to the appropriate tires (as specified on the Halo face).
- ☑ Spray the soapy water mixture over each connection point of the hoses and look for new bubble generation that could indicate a leak.
- ☑ While spraying, lightly pull and wiggle on the hoses to ensure air is not escaping from the tire valve stem or hose crimps.

Your Halo installation is now complete.

Please review the Maintenance section (pg 54) for information on how to properly maintain the Halo system.

MAINTENANCE

The Halo is a robust device that can withstand a variety of harsh environmental conditions; however, it requires maintenance to ensure safe, effective performance for the full lifetime of the product. The Maintenance Table below indicates the tasks that must be completed at specified intervals to properly maintain the Halo system.

If you are experiencing an issue not covered in this section, please contact Technical Support.

	MAINTENANCE INTERVALS		
MAINTENANCE ACTIONS	**PRE-TRIP**	**AT PM**	**AT EACH TIRE SERVICE OR UP TO 120,000 MILES**
A. General Inspection	X	X	X
B. Leak Test		X	X
C. Hardware Torque Check		X	X
D. Inspection of Servicable Items			X

MAINTENANCE ACTIONS

A. General Inspection

Some events (e.g. hard, solid objects flying up from the road) could cause damage to the Halo Tire Inflation system.

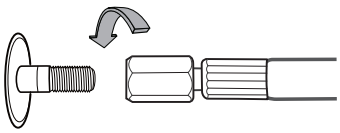
i. Visually inspect the Halo and components for damage. This includes cracked, bent, melted, corroded, or shattered system components. If there is a damaged system component, the equipment on that wheel-end should be removed by following the steps in the Halo Uninstallation section.

ii. Check that all screws, washers, bolts, and nuts are present. Replace the missing hardware with Aperia-issued hardware and tighten according to the **Torque Specifications Table** found on **page 61**. Obtain replacement hardware by contacting customer support.

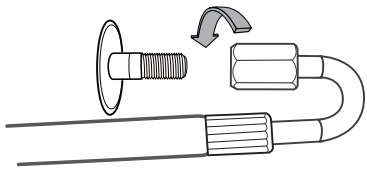
A. General Inspection (cont'd)

iii. Check the integrity of the valve stems and that the hose(s) are fully tightened on all wheels.

Single / Outer Tire



Dual / Inner Tire

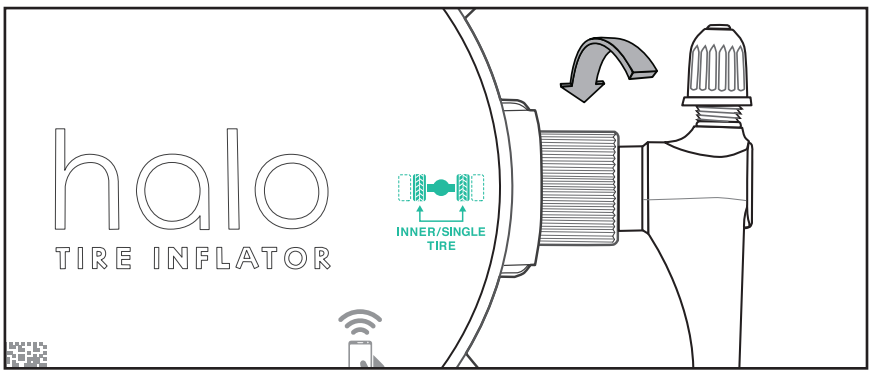


SOUND CHECK: While tightening hose listen for the brief release of air to stop, indicating the gasket is contacting the valve stem, **then continue to turn an additional 3/4 turn**.

⚠ WARNING: A contaminated, corroded, or damaged valve stem may cause a poor seal between the hose and valve stem resulting in a tire leak. **Only use the swivel for tightening.** Twisting of the hose to tighten the connection may damage the seal and cause a tire leak.

⚠ WARNING: Potential electrostatic charging hazard. Cleaning shall be done with a wet cloth.

iv. Check the integrity of the hose/plug connections at the Halos and ensure that they are fully tightened and that the assembly is snug.

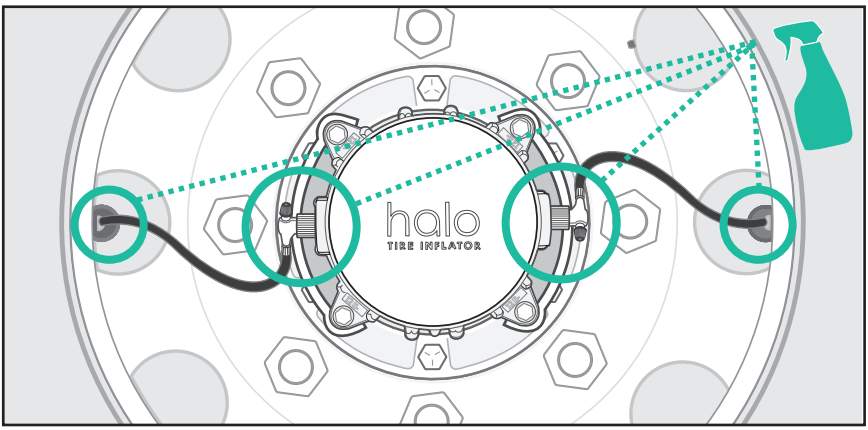


NOTICE: There should be no threads visible when fully tightened and there should be no play at the connection when properly installed.

B. Leak Test

i. Measure the tire pressures from the Halo hose connecter Schrader valves adjacent to each Halo port. If the tire is low, fill it to the recommended pressure and take note of which tire was inflated. If the tire pressure is low at two consecutive PMs and you can detect no leaks in the system, contact Aperia Customer Support.

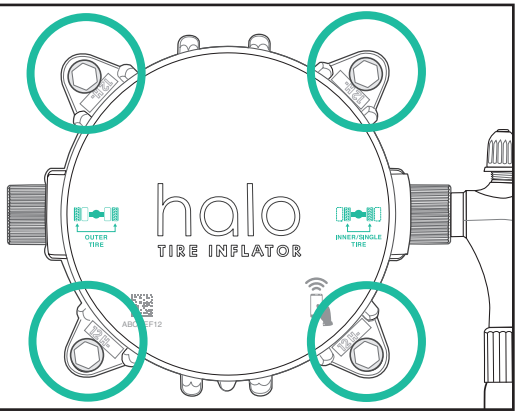
ii. Spray a soapy water mixture over each connection point of the hose(s) and look for bubbles that could indicate a leak. While spraying, lightly pull and wiggle on the hoses to ensure air is not escaping from the tire valve stem. If bubbles form, tighten hoses and repeat. If leak persists, complete Maintenance Action D3.



C. Hardware Torque Check

i. Using a torque wrench, verify that the Halo fastening screws are present and tightened to the recommended values by turning screws in the tightening direction.

Halo Mounting Screw Torque:
12 ft-lb (16 Nm)



⚠ WARNING: Tightening the fasteners to a higher or lower torque may cause the Halo to detach while the vehicle is moving.

⚠ WARNING: A Halo that is not securly attached to the bracket may detach from the vehicle during driving and must be removed or serviced prior to the start of driving.

D. Inspection of Serviceable Items

The hoses, brackets and Trailer Adaptor Plates, discussed in this section, are servicable items that require periodic inspection to ensure safe use of the Halo Tire Inflator. If damage is noticed please remove the Halo from service and contact Aperia for replacement parts.

> ⚠ **WARNING:** Use ONLY Aperia authorized replacement parts. Use of substitute, modified or replacement parts not authorized by Aperia may not meet Aperia's specifications and may result in failure of the part, loss of vehicle control and possibly injury or death.

i. Hardware Removal

Remove the Halo, hoses, screws and attaching brackets from the vehicle following instructions in the appropriate **UNINSTALL** section of the User Manual and carefully wipe all components clean.

ii. Hub Bracket Inspection

Closely inspect each hub bracket on your vehicle for deformation, cracks or other serious damage. Cracks resulting from stress or damage may be very small. *Ensure the parts are cleaned and look closely.* If cracks exist, do not reinstall the Halo. Contact Aperia for a replacement bracket or component.

> ⚠ **WARNING:** Do not operate the vehicle with damaged system components or missing hardware. Operating the vehicle with a damaged or missing components may result in the Halo detaching during operation.

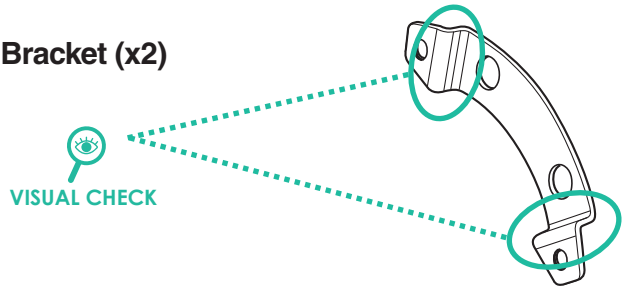
ii. Hub Bracket Inspection (cont'd)

⚠ WARNING: Cracks may be very small. Be sure to clean the parts if dirty and inspect closely and thoroughly. Operating the vehicle with a damaged bracket may result in the Halo detaching during operation.

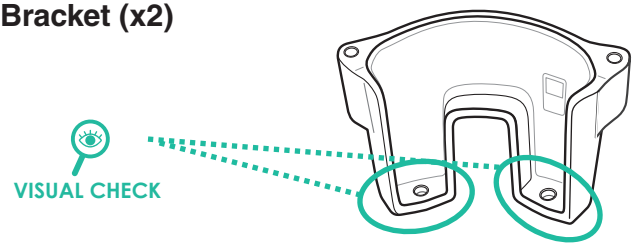
SAFETY CRITICAL INSPECTIONS

AREAS TO INSPECT FOR CRACKS

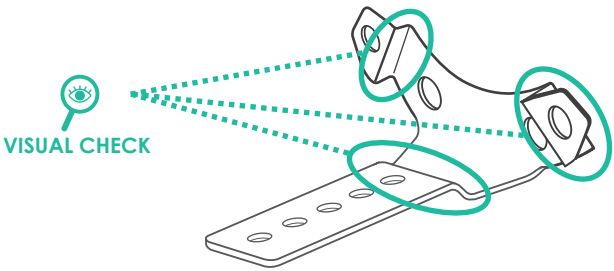
Tractor Hub Bracket (x2)



Trailer Hub Bracket (x2)



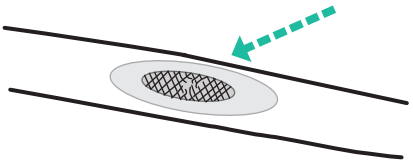
Tractor Hub Bracket for FlowBelow (x2)



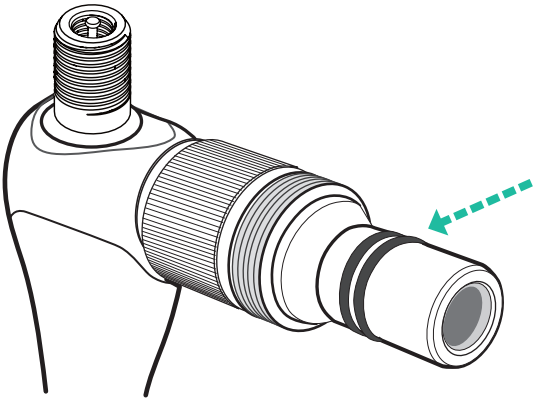
iii. Hose Inspection

Inspect the Schrader valves, hose crimps, hose swivels, and the hose itself for visible damage. In the case of a damaged part, replace the hose or seal with an Aperia-issued part.

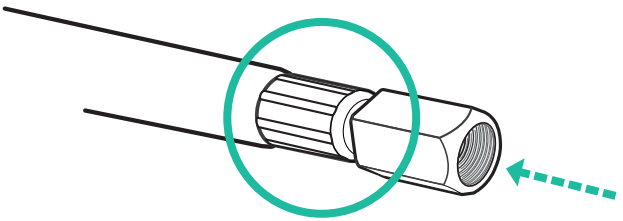
a) Inspect hose body for signs of severe wear. Replace hose if steel braids are exposed.



b) Inspect hose o-ring at the Halo connection for visible cracks, cuts, tears or any visible damage. Replace hose or o-ring if o-ring show evidence of damage or contamination.



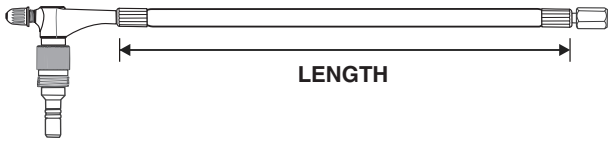
c) Inspect all hose gaskets at valve stem for cracks, tears or any visible damage. Replace hose or gasket if gasket shows evidence of damage or contamination.



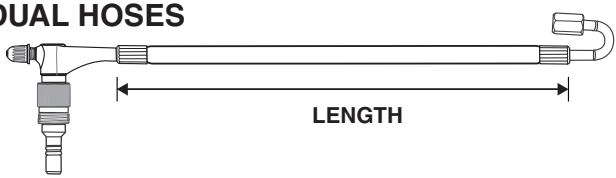
Replacement Hose(s)

When ordering replacement hoses please specify the length and if the hose is for a wide-base, inner dual or outer dual tire.

INNER DUAL/WIDE-BASE HOSES



OUTER DUAL HOSES



TORQUE SPECIFICATION TABLE

FASTENER	QTY PER HALO	TORQUE
Tractor Hub Nuts for **5/8" Studs**	4	Mfg. Spec. Min. 50 ft-lb (68 Nm)
Tractor Hub Nuts for **3/4" Studs**	4	Mfg. Spec. Min. 90 ft-lb (122 Nm)
6x2 Undriven Axle Hub Nuts for **5/8" Studs**	4	Min. 50 ft-lb (68 Nm)
Trailer/Lift Axle Hubcap Screws	6	16 ft-lb (23 Nm)
Hose to Valve Stem	1 or 2	3/4 turn after gasket contacts valve stem (release of air stops)
Hose to Halo	1 or 2	Tighten with Tools Max 8 ft-lb

UNINSTALL TOOLS

REQUIRED FOR ALL UNINSTALLS

- Torque wrench (capable of measuring 15 to 50 ft-lb)
- Socket wrench
- Socket extension
- Socket for hub nuts/bolts (varies by vehicle)
- 1/2" (13mm) hex socket
- Channellock pliers
- Soapy water mixture in a spray bottle

REQUIRED FOR SOME UNINSTALLS

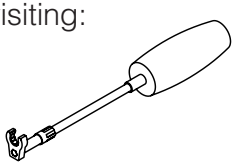
- Impact driver and socket for hub/wheel nuts
- Torque wrench (capable of measuring 100-250 ft-lb)

RECOMMENDED

- Permanent bright colored marker/paint pen

Aperia also recommends using our Hose Install Tool to more easily access the hose swivel for installation and removal. Order directly from Aperia's e-commerce page by visiting:

shop.aperiatech.com/collections/service-parts



⚠ WARNING: Potential electrostatic charging hazard. Do not remove the inflator in a hazardous environment.

⚠ WARNING: Use ONLY Aperia authorized replacement parts. Use of substitute, modified or replacement parts not authorized by Aperia may not meet Aperia's specifications and may result in failure of the part, loss of vehicle control and possibly injury or death. To obtain authorized replacement parts contact customer support.

UNINSTALL FOR TRACTOR (STANDARD)

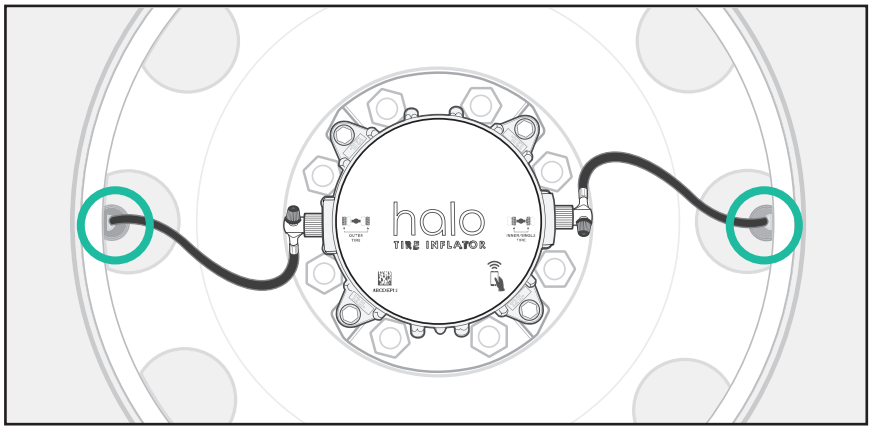
1. DETACH HALO

a Inspect the tires and valve stems to ensure they are in good condition.

VISUAL CHECK

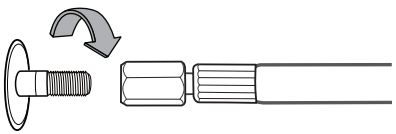
> ⚠ **WARNING:** A contaminated, corroded, or damaged valve stem may result in a tire leak or sudden loss of pressure. A tire in poor condition or with punctures may lead to a blowout.

b Carefully remove the Halo hose(s) from the tire valve stem(s).



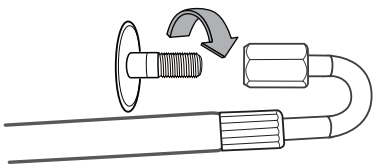
SINGLE / WIDE-BASE

1 Remove the connector from the **tire's valve stem.**



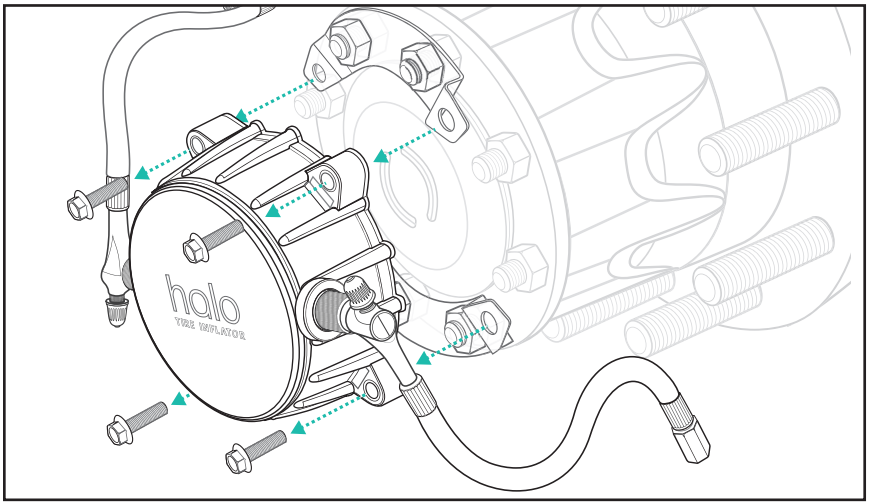
DUAL UNINSTALL

2 Remove the connector from the **outer tire's valve stem.**



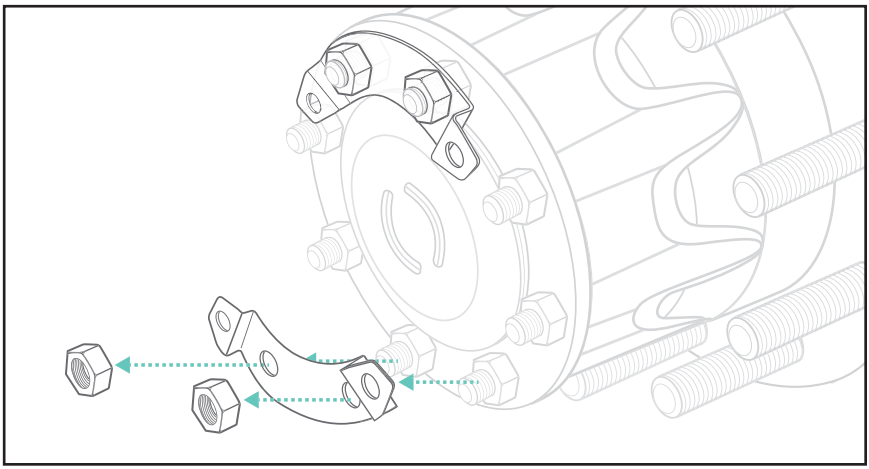
1. DETACH HALO (CONT'D)

Ⓒ Unscrew the Halo Mounting Screws and **keep them in a safe spot for for re-installation.** Carefully remove the Halo from the brackets and set aside.



2. DETACH BRACKETS

Remove the **hub nuts** and slide the brackets off of the studs. Store the brackets and nuts with the Halo Mounting Screws for re-installation at a later time. **Uninstallation is complete.**



UNINSTALL

UNINSTALL FOR TRAILER (STANDARD)

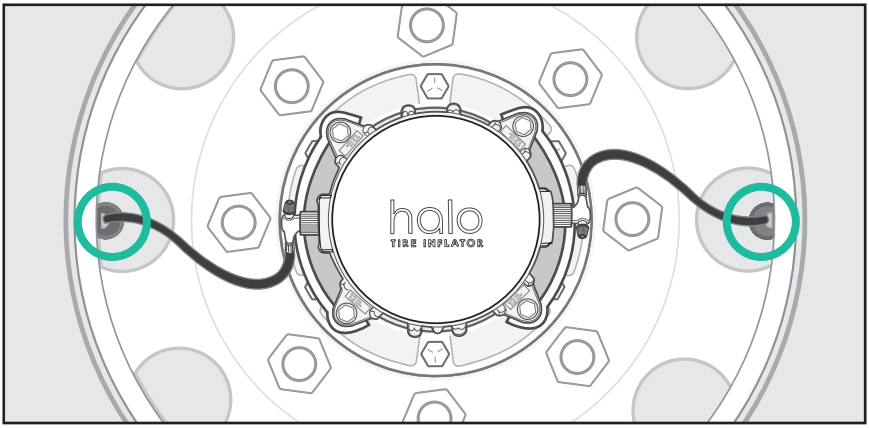
1. DETACH HALO

a Inspect the tires and valve stems to ensure they are in good condition.

VISUAL CHECK

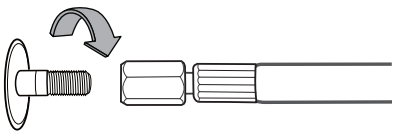
⚠ WARNING: A contaminated, corroded, or damaged valve stem may result in a tire leak or sudden loss of pressure. A tire in poor condition or with punctures may lead to a blowout.

b Carefully remove the Halo hose(s) from the tire valve stem(s).



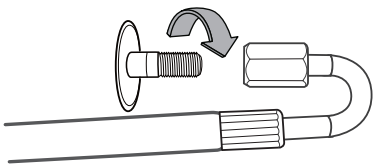
SINGLE / WIDE-BASE

1 Remove the connector from the **tire's valve stem.**



DUAL UNINSTALL

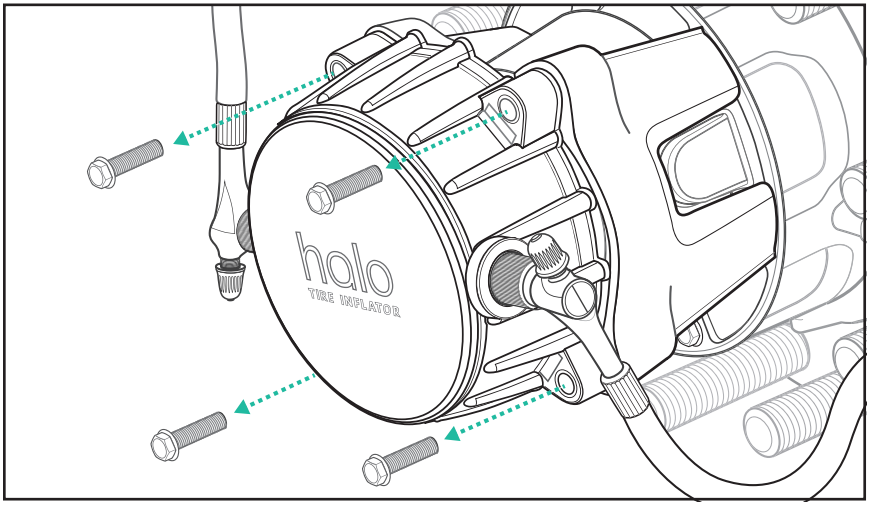
2 Remove the connector from the **outer tire's valve stem.**



UNINSTALL

1. DETACH HALO (CONT'D)

Ⓒ Unscrew the Halo Mounting Screws and **keep them in a safe spot for for re-installation.** Carefully remove the Halo from the brackets and set aside.

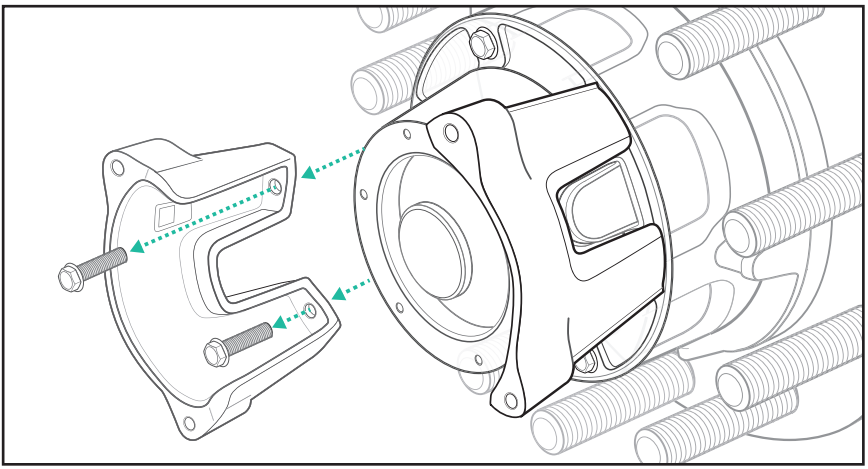


UNINSTALL

2. DETACH FIRST BRACKET

Remove the **hub screws** holding the bracket in place and slide off the first bracket. Store the bracket with the Halo Mounting Screws for re-installation at a later time.

NOTICE: Only remove screws for a single bracket on the hub flange at a time. Removing all screws ot once may break the seal and cause the hub cap to leak.



Return the screws to their appropriate locations on the hub cap and tighten to the manufacturer's recommended torque.

NOTICE: The Aperia provided screws used to install the bracket may be too long to use alone and bottom out in the hub if installed without the mounting bracket. Substitute the orginal manufacturer's screws if available. If reinstalling the Aperia provided screws without a bracket, carefully tighten to avoid bottoming and potentially destroying the internal hub threads.

3. DETACH SECOND BRACKET

Remove the second set of **hub screws** and slide off the second bracket. Store the bracket with the Halo Mounting Screws for re-installation at a later time. Return the screws to their appropriate locations on the hub cap and tighten to the manufacturer's recommended torque. **Uninstallation is complete.**

UNINSTALL

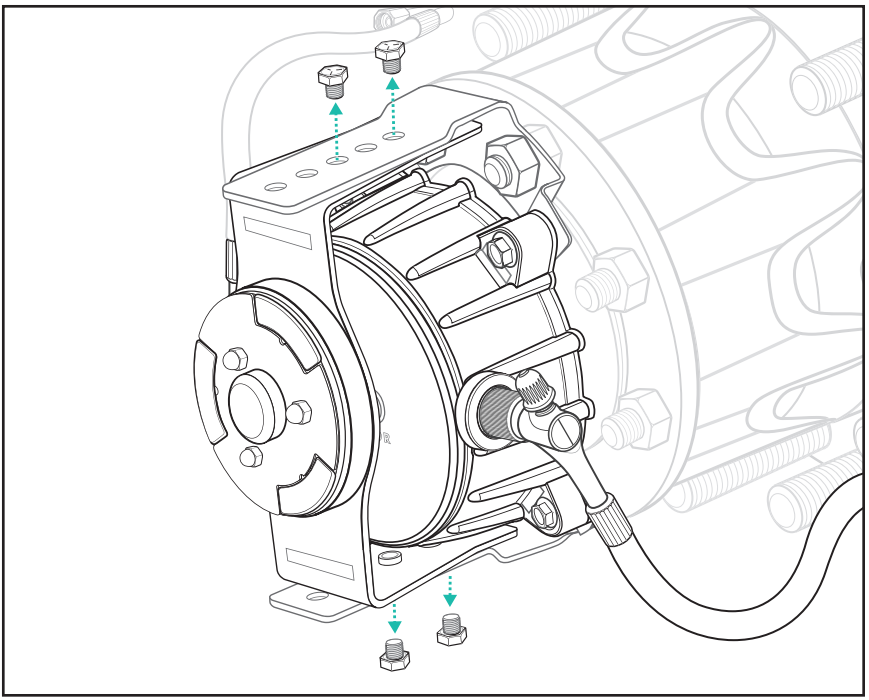
UNINSTALL FOR TRACTOR (WITH FLOWBELOW)

1. REMOVE WHEEL COVER AND MOUNT

ⓐ Push the center of the wheel cover and rotate until the latch snaps disengages and the cover can be removed. Set aside.

For additional information regarding FlowBelow operations and maintenance, refer to your FlowBelow Installation Manual.

ⓑ Using a marker or paint pen, demark the locations of the bolts securing the latch assembly to the Halo brackets so that you will be able to easily return the latch assembly to it's current position. Next, remove the bolts and latch assembly and set them aside.



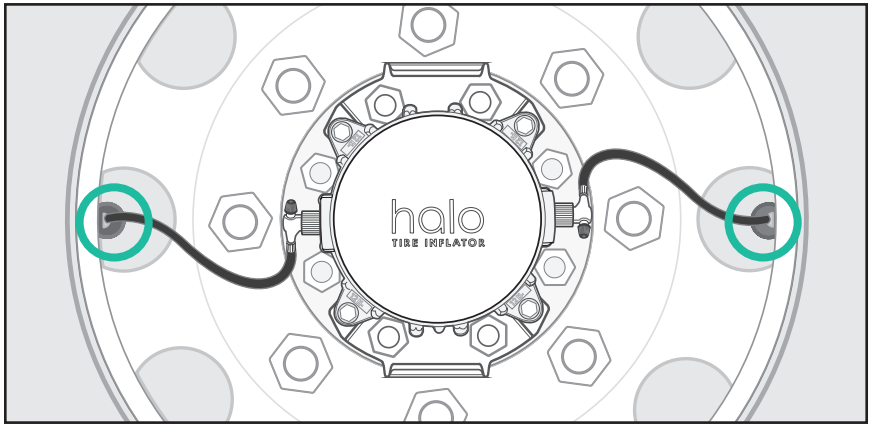
2. DETACH HALO

ⓐ Inspect the tires and valve stems to ensure they are in good condition.

VISUAL CHECK

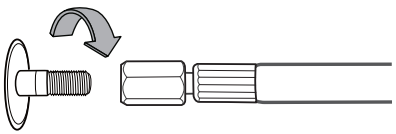
> ⚠ **WARNING:** A contaminated, corroded, or damaged valve stem may result in a tire leak or sudden loss of pressure. A tire in poor condition or with punctures may lead to a blowout.

ⓑ Carefully remove the Halo hose(s) from the tire valve stem(s).



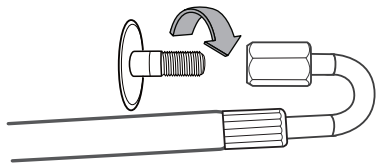
SINGLE / WIDE-BASE

❶ Remove the connector from the **tire's valve stem.**



DUAL UNINSTALL

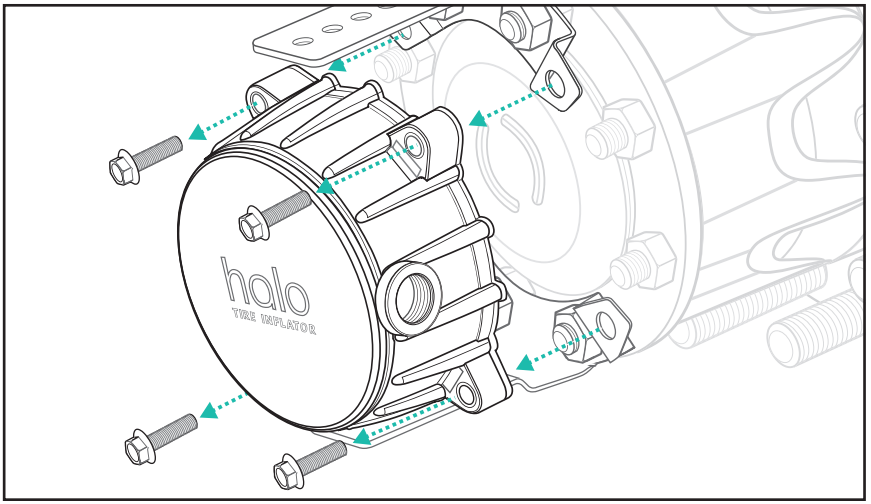
❷ Remove the connector from the **outer tire's valve stem.**



UNINSTALL

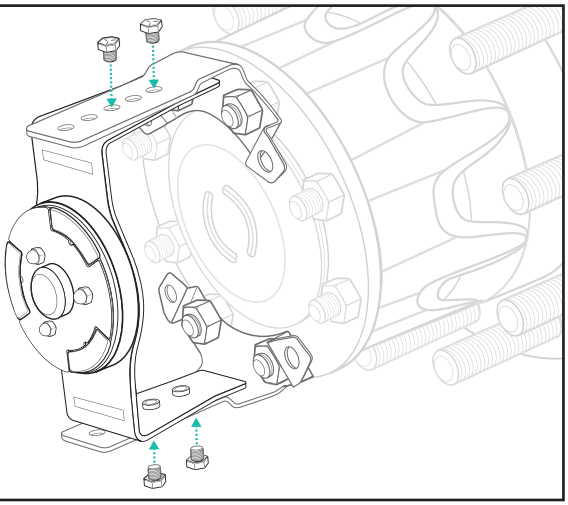
2. DETACH HALO (CONT'D)

ⓒ Unscrew the Halo Mounting Screws and **keep them in a safe spot for for re-installation.** Carefully remove the Halo from the brackets and set aside.



ⓑ Loosely return the latch assembly to the position you have previously marked and thread the 1/4"-20 bolts into place. Place a straight edge across the latch face to verify that it is flush with the outside lip of the wheel. Torque each bolt to 10 ft-lbs.

FlowBelow Bracket Screw Torque:
10 ft-lb
(13.5 N m)



UNINSTALL

3. ATTACH FLOWBELOW COVER

Orient the wheel cover so that the wheel cover plate fits over the latch. Push the center of the wheel cover into the latch and rotate the wheel cover until the latch snaps closed and the cover is held securely in place. **Uninstallation is complete.**

For additional information regarding FlowBelow installation and maintenance, refer to your FlowBelow Installation Manual.

NOTICE: The recommended torque setting for the bolts attaching the Halo to the mounting brackets **10 ft-lbs**.

⚠ WARNING: Tightening to a higher or lower torque could cause the FlowBelow components to detach while the vehicle is moving.

Aperia TECHNOLOGIES

QTY: 1

Part Number:
IN-501UM-EN

Description:
User Manual, Halo Tire Inflator

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Aperia TECHNOLOGIES

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