Aperia TECHNOLOGIES

# PRODUCT CATALOG

**Part No:** IN-200CA **Date:** 08/31/2023

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## ABOUT THIS CATALOG

This catalog contains parts, tools, service kits for the Halo Tire Inflator and Halo Connect. There are two sections for the Halo to cover parts, tools and service kits for the Halo with 1st generation brackets (model #s HA-3, HA-2, HA-1) and the latest version of the Halo (model #s HA-4 and beyond). Please see the table on the next page to determine which Halo section to reference.

## WHERE TO ORDER

Replacement parts are available on our website. aperiatech.com/shop

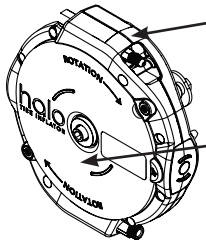
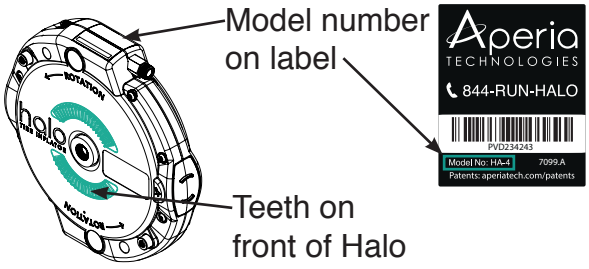
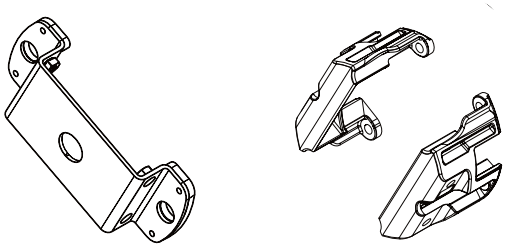
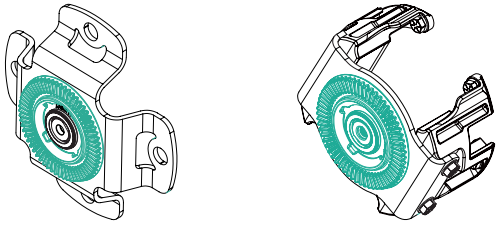
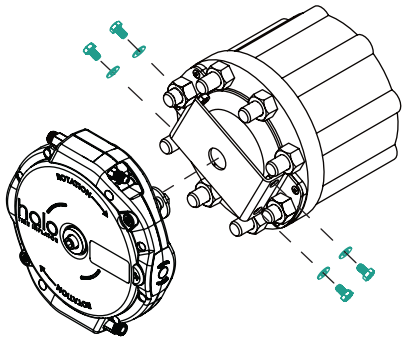
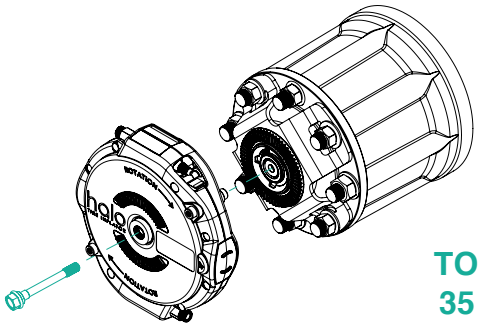
## SUPPORT

We'd be happy to answer your questions about ordering the Halo or replacement parts. Call the number below and select (1) for sales or email us. We look forward to hearing from you.

**Phone** +1-844-RUN-HALO
**Website** www.aperiatech.com
**Sales** sales@aperiatech.com

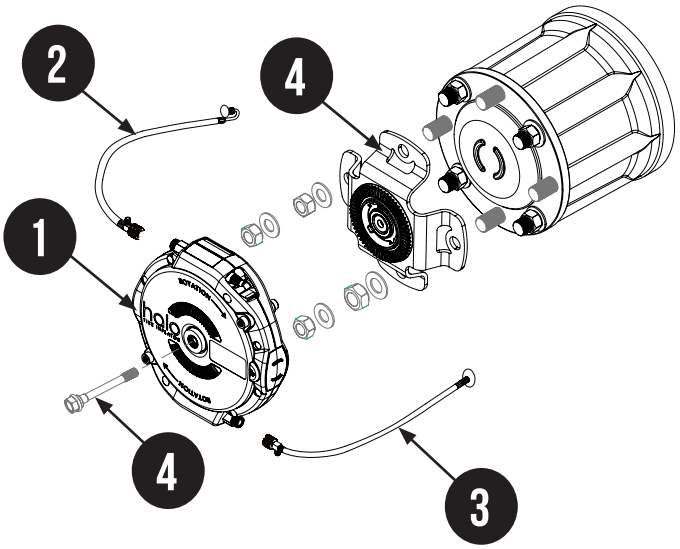
# BRACKET VERSIONS

The table below helps in identifying if you have the Halo with first generation brackets or the current Halo design. Be sure to reference the section of the catalog that applies to your version of the product. Note that the hoses are compatible with both versions.

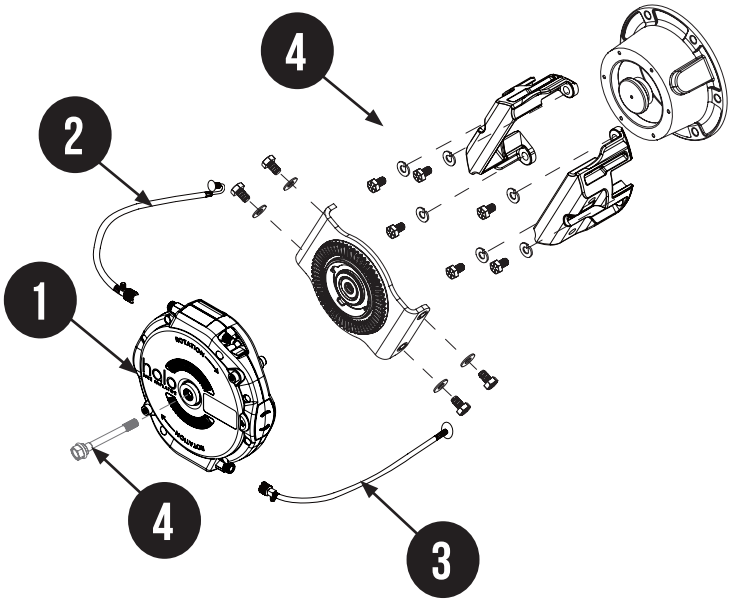
| | HALO<br>W/ 1ST GEN. BRACKETS | HALO |
|---|---|---|
| **Halo** |  <br>Part #s beginning with **HA-1, HA-2, HA-3** |  <br>Part #s beginning with **HA-4 and above** |
| **Brackets** |  <br>Part #s beginning with **BR-4 and BR-8** |  <br>Part #s beginning with **BR-D** |
| **Mounting Method** |  <br>Each Halo is configured for either the left or right side of the vehicle. |  <br>Each Halo can be used on left or right side of vehicle. |
| **Hoses** | **BOTH HALO VERSIONS ARE COMPATIBLE WITH APERIA HOSES.** | |

# HALO SYSTEM COMPONENTS:

## TRACTOR AXLE (R TYPE)




## TRAILER AXLE (P OR N TYPE)

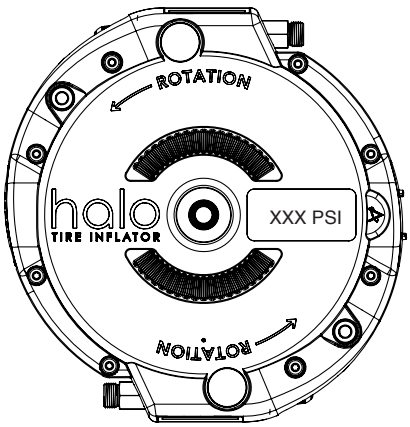



One component is required for a complete wheel-end installation. Bracket kits and hose kits vary based on vehicle configuration.

1. Halo Tire Inflator™
2. Hose - Outer Dual Tire (wide-base conversion cap is used for single tires)
3. Hose - Inner Dual Tire
4. Bracket Kit (includes fasteners)

# HALO TIRE INFLATOR™

HA-4XXX




| Part Number | Target Tire Pressure |
|---|---|
| HA-4080H | 80 PSI |
| HA-4085H | 85 PSI |
| HA-4090H | 90 PSI |
| HA-4095H | 95 PSI |
| HA-4100H | 100 PSI |
| HA-4105H | 105 PSI |
| HA-4110H | 110 PSI |
| HA-4115H | 115 PSI |
| HA-4120H | 120 PSI |

# HOSE KITS

**STRAIGHT HOSES (typically inner dual)**

| Part Number | Desciption |
|---|---|
| HS-X080S | Straight Hose, 8 in. |
| HS-X100S | Straight Hose, 10 in. |
| HS-X110S | Straight Hose, 11 in. |
| HS-X120S | Straight Hose, 12 in. |
| HS-X130S | Straight Hose, 13 in. |
| HS-X140S | Straight Hose, 14 in. |
| HS-X145S | Straight Hose, 14.5 in. |
| HS-X150S | Straight Hose, 15 in. |
| HS-X160S | Straight Hose, 16 in. |

**WIDE-BASE HOSES***

| Part Number | Description |
|---|---|
| HS-X080SW | Straight Hose, 8 in. |
| HS-X100SW | Wide-base Hose, 10 in. |

*Wide-base hose lengths include plug (AC-100HS)

**180 DEGREE HOSES (Typically outer dual)**

| Part Number | Desciption |
|---|---|
| HS-X090U | 180 degree Hose, 9 in. |
| HS-X100U | 180 degree Hose, 10 in. |
| HS-X110U | 180 degree Hose, 11 in. |
| HS-X120U | 180 degree Hose, 12 in. |
| HS-X130U | 180 degree Hose, 13 in. |

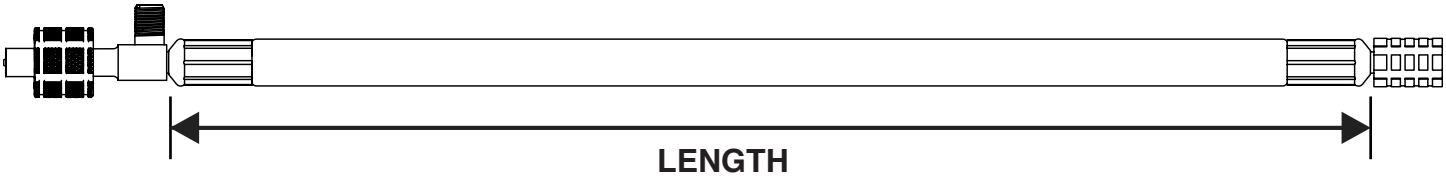
**Hose Seal Replacement Kits**

| Part Number | Description |
|---|---|
| TK-100HS | Tool Kit, Hose Seals |
| SK-124HG | Service Kit, Replacement, Hose Gasket (valve stem side) |
| SK-124OR | Service Kit, Replacement, Hose o-ring (Halo side) |

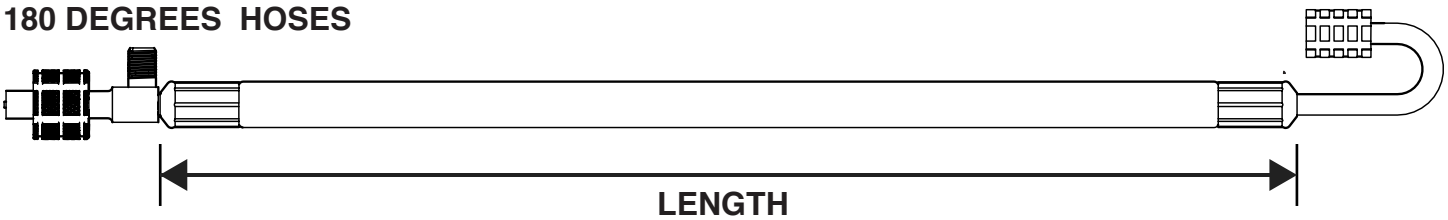
# HOW TO MEASURE HOSES

Hose lengths are measured from crimp to crimp.

**STRAIGHT HOSES**




**180 DEGREES HOSES**

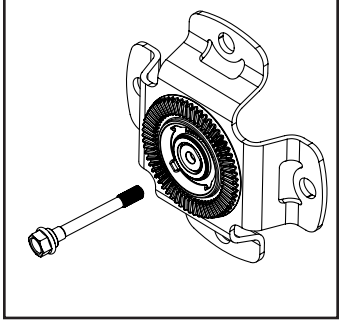


# BRACKET KITS

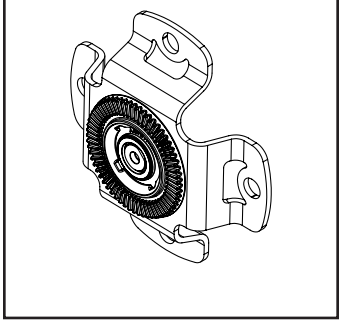
| Part Number | Tractor/Trailer | Description | Hub Stud/ Bolt Dia. | Stud/Bolt Circle Dia. | # of Studs/ Bolts |
|---|---|---|---|---|---|
| BR-DR58B | Tractor | Drive Axle | 5/8 in. | 7 in. | 8 |
| BR-DR58TB | Tractor | Tall for 6x2 tag/push | 5/8 in. | 7 in. | 8 |
| BR-DR34B | Tractor | Drive Axle | 3/4 in. | 7 in. | 8 |
| BR-DR58FA | Tractor | Drive Axle, w/o bolt | 5/8 in. | 7 in. | 8 |
| BR-DR58FTA | Tractor | Tall for 6x2 tag/push, w/o bolt | 5/8 in. | 7 in. | 8 |
| BR-DNB* | Trailer/Lift Axle | N-type Spindle | 5/16 in. | 5 1/2 in. | 6 |
| BR-DPB* | Trailer/Lift Axle | P-type Spindle | 5/16 in. | 6 3/4 in. | 6 |

*Trailer/lift axle brackets ship with replacement hubcap bolts.(FA-200A)

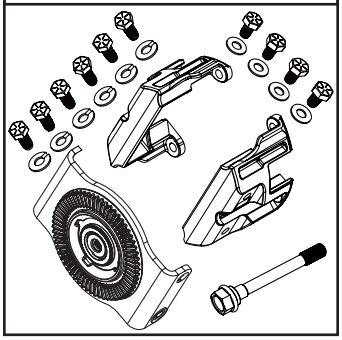
BR-DRXXXX



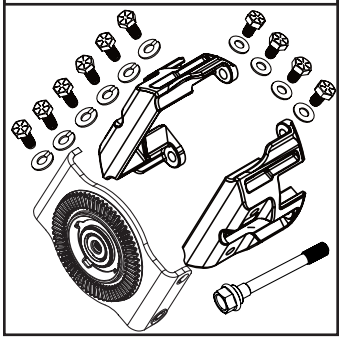
BR-DRXXFX



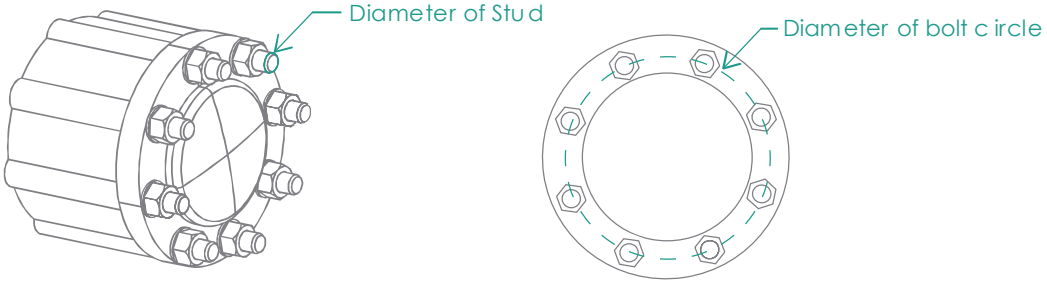
BR-DNB



BR-DPB



## TRACTOR BRACKET COMPATIBILITY MEASUREMENTS




## BRACKET-HUBCAP COMPATIBILITY CHART**

| Bracket PN | Compatible Hubcaps | | |
|---|---|---|---|
| BR-DNB<br>1st Gen. Bracket: BR-4009A | National 340-009 | PAI AHS-9961 | SKF 1644 |
| | Stemco 343-4009 | Stemco 340-5096 | Stemco 340-5097 |
| | Hendrickson HXL5 S-33376 | | |
| BR-DPB<br>1st Gen. Bracket: BR-4195A | ConMet 10018621 | Dual Dynamics 7.5-GI | Dual Dynamics DG-7.5P |
| | PAI AHS-9907 | Stemco 340-4195 | Stemco 352-4195 |
| | Hendrickson HXL5 S-33377 | | |
| BR-DR58TB<br>BR-DR58FTA<br>1st Gen. Bracket: BR-8758TB | Stemco 340-4119<br>Incompatible with Sentinel version 356-4119 and with ESP plug | | |

**If your hubcap is not listed, please contact Technical Support.

# FLOWBELOW PARTS

The Halo is compatible with FlowBelow wheel covers on trucks with either dual or wide-base tires. The Aperia sales team can help determine which parts you need to ensure a proper fit with your vehicle.

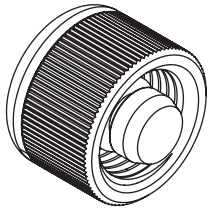
| Part Number | Description |
|---|---|
| AC-400FB | FlowBelow to Halo Adaptor |
| AC-215FB | FlowBelow Standoff Kit, 1.5 in. |
| AC-220FB | FlowBelow Standoff Kit, 2.0 in. |
| BR-DR58FA | Tractor, Drive Axle, 5/8” Studs, no center bolt |
| BR-DR58FTA | Tractor, 5/8” Studs, Tall Bracket, no center bolt |
| FA-101FB | Fastener Kit, FlowBelow Mounting Nuts |
| FA-100FB | Fastener Kit, Replacement, FlowBelow Adaptor |

# ACCESSORIES/REPLACEMENT PARTS

| Part Number | Description |
|---|---|
| AC-200CH | Halo Chrome Cover |
| AC-100HS | Conversion Cap, Dual Tires to Wide-base Tires |
| AC-402TR* | Tamper Resistant Kit, Single Axle, Truck |
| AC-404TR* | Tamper Resistant Kit, Single Axle, Truck |
| AC-412TR* | Tamper Resistant Kit, Single Axle, Trailer |
| AC-414TR* | Tamper Resistant Kit, Tandem Axle, Trailer |
| AC-100HR | Hose Retention Kit (Loctite 567 Thread Sealant) |

*Tamper resistant kits contain the fasteners and tool required for one vehicle.

AC-100HS



# INSTRUCTIONS & USER MANUALS

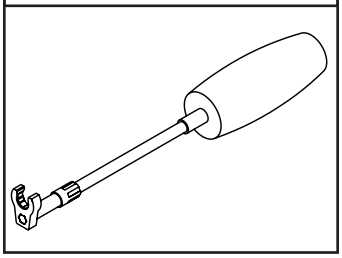
| Part Number | Description |
|---|---|
| IN-202UM | User Manual, Halo Tire Inflator |
| IN-202RL | Roadside Service Instruction Label |
| IN-202UM-ES | User Manual, Halo Tire Inflator, Spanish |
| IN-202RL-ES | Roadside Service Instruction Label, Spanish |
| IN-202UM-FR | User Manual, Halo Tire Inflator, French |
| IN-202RL-FR | Roadside Service Instruction Label, French |

# SERVICE KITS & TOOL KITS

Service kits include the parts and consumable items required to return damaged Halos to working order. Tool kits contain tools that work best with the Halo.

| Part Number | Description |
|---|---|
| TK-100HI | Tool Kit, Hose Install |
| TK-400CS | Tool Kit, Center Screw, FlowBelow |
| TK-400TR | Tool Kit, Center Screw, Tamper-Resistant |
| TK-200HF | Tool Kit, Round Hose Fittings |
| SK-200HF | Service Kit, Replacement, Round Hose Fittings |
| TK-100HS | Tool Kit, Hose Seals |
| SK-124HG | Service Kit, Replacement, Hose Gasket (valve stem side) |
| SK-124OR | Service Kit, Replacement, Hose o-ring (Halo side) |

TK-100HI



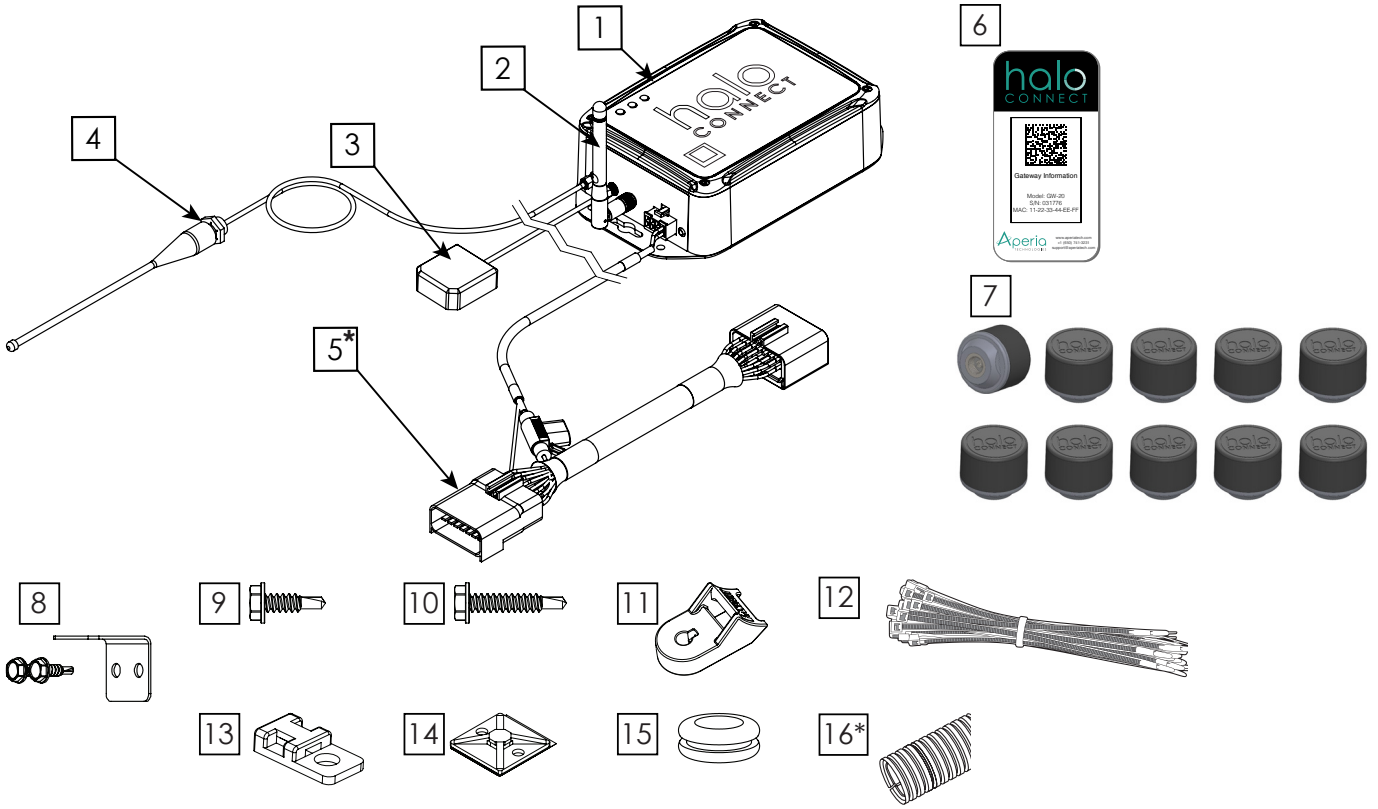
Speed up install and removal. Reach the hose at the valve stem.

# FASTENER REPLACEMENT KITS

Aperia's fasteners have been designed to ensure proper strength and corrosion resistance. Be sure to replace any lost or damaged fasteners with fasteners provided by Aperia.

| Part Number | Description | Included with |
|---|---|---|
| FA-400H | Fastener Kit, Replacement, Center Screw, Hex Screw | All Brackets |
| FA-100BR | Fastener Kit, Replacement, Halo Adaptor Plate to Bracket, 1 Halo | Trailer Brackets |
| FA-200A | Fastener Kit, Replacement, Trailer Bracket, Hubcap Bolts, 6 bolts | Trailer Brackets |
| FA-100FB | Fastener Kit, Replacement, FlowBelow Adaptor | AC-400FB |
| FA-100CH | Fastener Kit, Chrome Cover | AC-200CH |
| FA-402TR* | Tamper Resistant Fastener Kit, Single Axle, Truck | AC-402TR |
| FA-404TR* | Tamper Resistant Fastener Kit, Single Axle, Truck | AC-404TR |
| FA-412TR* | Tamper Resistant Fastener Kit, Single Axle, Trailer | AC-412TR |
| FA-414TR* | Tamper Resistant Fastener Kit, Tandem Axle, Trailer | AC-414TR |

# HALO CONNECT SYSTEM COMPONENTS




| # | Qty | Description |
|---|---|---|
| 1 | 1 | Gateway |
| 2 | 1 | LTE antenna |
| 3 | 1 | GPS antenna |
| 4 | 1 | TPMS cable w/ antenna |
| 5* | 1 | Power harness* |
| 6 | 1 | Gateway ID label |
| 7 | 1 | TPMS sensor kit (6-10 sensors) |
| 8 | 1 | TPMS antenna bracket w/ screws |
| 9 | 9 | 5/8” long self tapping screws |
| 10 | 8 | 1” long self tapping screws |
| 11 | 2 | Heavy duty cable tie mount |
| 12 | 17 | UV stabilized 8” cable ties |
| 13 | 3 | Screw mount cable tie mount |
| 14 | 10 | Adhesive cable tie mount |
| 15 | 1 | Grommet for 1/2” hole |
| 16* | 6-10 ft | UV stabilized cable loom* |

*Power harness and loom packaged separately.

# HALO CONNECT KITS

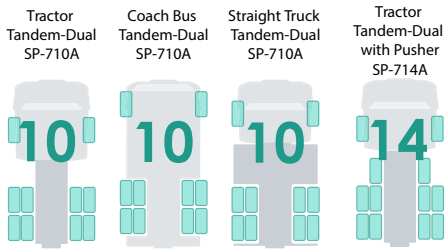
The Halo Connect Kits include everything necessary to install on a vehicle, except the power harness and cable loom.

| Part Number | Description |
|---|---|
| HC-27XXB | Halo Connect, (XX Vehicle Configuration), GW-20, SE-7 |

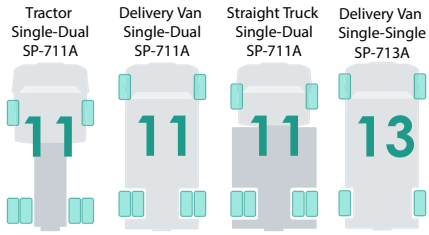
# VEHICLE CONFIGURATIONS

## STAND ALONE POWER UNITS

### Tandem Axle, Dual Tire Power Units

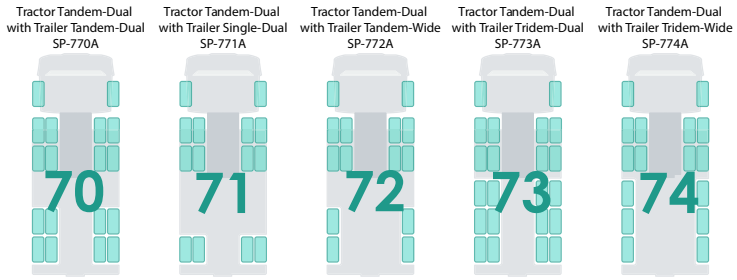


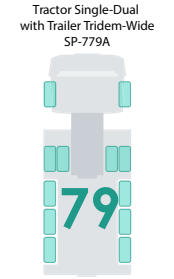

### Single Axle, Dual Tire Power Units




### Tandem Axle, Wide-base Tire Power Units

## MARRIED TRACTOR TRAILERS



# TOOLS AND HARDWARE

| Part Number | Description | Application |
|---|---|---|
| TK-104SMA | 4 in-lb SMA torque wrench | Required to tighten SMA Connectors |
| HK-100LM | Split loom, 100 ft | Protects the exterior routed cables |

# POWER HARNESSES

The preferred power source for Halo Connect is the plug and play RP1226 connector found in most new vehicles. Aperia offers a variety of high quality power harness options designed to provide a convenient power connection.

| Part Number | Description | Application |
|---|---|---|
| CB-RPS16A | RP1226, Splitter, 16 ft | RP1226 Connector |
| CB-RPS16A-P1 | RP1226, Splitter, 16 ft, Pin 1 Power | RP1226 Connector (PACCAR Vehicles) |
| CB-DC10A | Ring Terminals, 10 ft | Direct to battery, inverter or other factory power and ground studs |
| CB-SB16A | Terminated Leads, 10 ft | PACCAR Splice Blocks |
| CB-BL16A | Blade Connectors, 16 ft | PACCAR spare power harness P92-8916 |
| CB-M216A | Terminated Leads, 10 ft | Freightliner M2 & SD114 power splice |
| CB-PE16A | PACCAR 16-09171Connector, 16ft | Older model PACCAR trucks, spare power ports. |
| CB-LT16A | International fuse panel, 16 ft | Add circuit to International tractor fuse panel. |
| CB-LPFT16A | Low Profile Mini fuse add-a-fuse, 16 ft | Fuse panel, add-a-fuse |
| CB-FT10A | Mini fuse add-a-fuse, 10 ft | Fuse panel, add-a-fuse |

# TPMS SENSORS

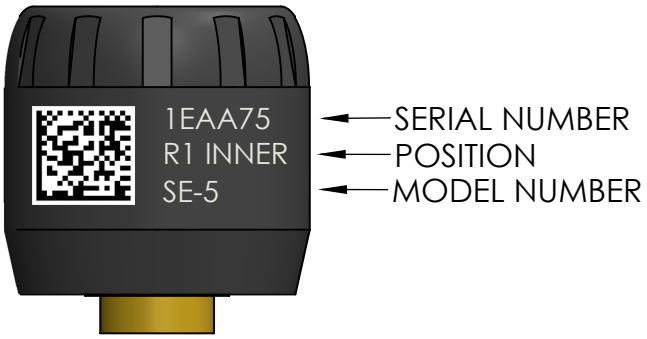
Halo Connect TPMS sensors are externally mounted onto a schrader valve stem. They are offered as kits for three specific vehicle tire configurations or in kits of one or five spare “wildcard” sensors. The vehicle specific sensor packs contain sensors that are marked with tire position, sensor serial number, and sensor model number. The “wildcard” sensors do not have tire position marked on them and can be used to replace a sensor on any tire.

To ensure you select the correct sensor model check the component compatibility chart and the gateway model number in the vehicle. The gateway model number can be found on the Gateway ID label, typically on the door or in the door jamb.

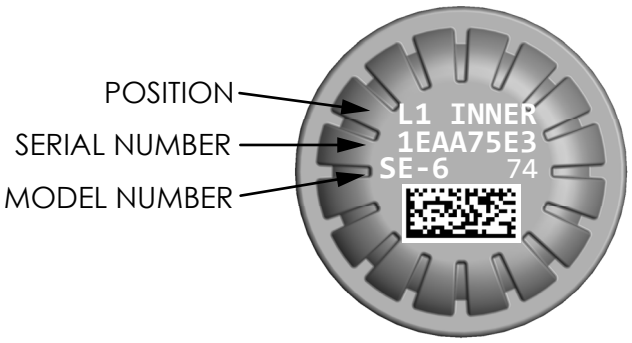
| Part Number* | Description | |
|---|---|---|
| SP-#10A | Sensor Pack, Tractor, Tandem Axle, Dual Tire, SE-# | 10 sensors |
| SP-#11A | Sensor Pack, Tractor, Single Axle, Dual Tire, SE-# | 6 sensors |
| SP-#12A | Sensor Pack, Tractor, Tandem Axle, Wide-base Tire, SE-# | 6 sensors |
| SP-#01A* | Spare “Wildcard” Sensors, Single Sensor, SE-# | 1 sensor |
| SP-#05A* | Spare “Wildcard” Sensors, 5-Pack, SE-# | 5 sensors |

# = 5, 6, or 7 depending on sensor model.

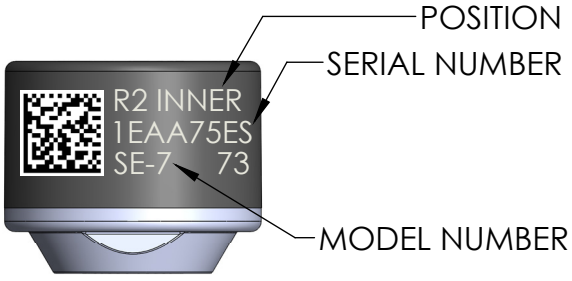
# TPMS SENSOR MODELS




MODEL # SE-5




MODEL # SE-6




MODEL # SE-7

# REPLACEMENT COMPONENTS

## ANTENNAS

| Part Number | Description |
|---|---|
| CB-GPS16B | Replacement, GPS Antenna, 16 ft |
| CB-TPMS20A | Replacement, TPMS Cable/Antenna, 20 ft |
| CB-LTE6A | Replacement, Cellular Antenna, 6 inch |

## GATEWAYS

| Part Number | Description |
|---|---|
| GW-10 | Replacement, Gateway, Compatible with SE-5 Sensors |
| GW-20 | Replacement, Gateway, Compatible with SE-6/SE-7 Sensor |

## HARDWARE

| Part Number | Description | |
|---|---|---|
| HK-100HC | Gateway mounting and cable routing/ protection hardware kit | Replacements for items 9-15 on pg. 10 |
| HK-100LM | Split loom, 100 ft | Protects the exterior routed cables |
| HK-15LM | Split loom, 15 ft | Protects the exterior routed cables |
| BR-TPMS | TPMS antenna bracket | Replacement TPMS bracket kit |

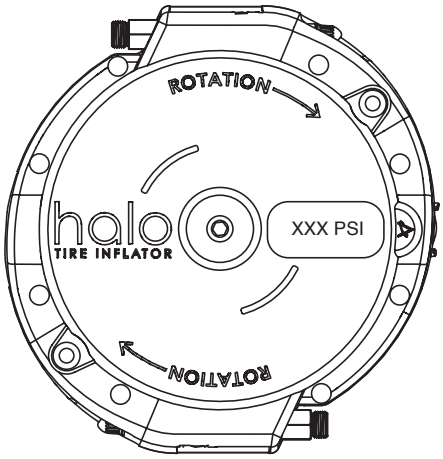
## COMPATIBILITY CHART

There exist three sensor models and two gateway models. To confirm compatibility of replacement parts refer to this chart. The Gateway and Sensors are marked with their model numbers for reference.

| Part Number | COMPATIBLE COMPONENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Gateway Model | SENSOR PACK | | ANTENNAS | | | Hardware Kit | TPMS Bracket |
| | | Sensor Pack | Sensor Model | TPMS | GPS | LTE | | |
| HC-1510B-XX | GW-10 | SP-510A | SE-5 | CB-TPMS20A | CB-GPS16B | CB-LTE6 | FA-100HK | BR-TPMS |
| HC-1511B-XX | GW-10 | SP-511A | SE-5 | | | | | |
| HC-1512B-XX | GW-10 | SP-512A | SE-5 | | | | | |
| HC-2610B-XX | GW-20 | SP-610A | SE-6 | | | | | |
| HC-2611B-XX | GW-20 | SP-611A | SE-6 | | | | | |
| HC-2612B-XX | GW-20 | SP-612A | SE-6 | | | | | |
| HC-2710B-XX | GW-20 | SP-710A | SE-7 | | | | | |
| HC-2711B-XX | GW-20 | SP-711A | SE-7 | | | | | |
| HC-2712B-XX | GW-20 | SP-712A | SE-7 | | | | | |

# HALO TIRE INFLATOR™ - COMPATIBLE WITH 1ST GENERATION BRACKETS

HA-3XXXL/R




| Part Number | | Target Tire Pressure |
|---|---|---|
| Left | Right | |
| HA-3080L | HA-3080R | 80 PSI |
| HA-3085L | HA-3085R | 85 PSI |
| HA-3090L | HA-3090R | 90 PSI |
| HA-3095L | HA-3095R | 95 PSI |
| HA-3100L | HA-3100R | 100 PSI |
| HA-3105L | HA-3105R | 105 PSI |
| HA-3110L | HA-3110R | 110 PSI |
| HA-3115L | HA-3115R | 115 PSI |
| HA-3120L | HA-3120R | 120 PSI |

halo
TIRE INFLATOR

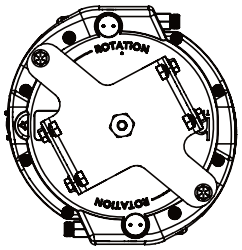
The first & only
full vehicle solution

## HALO W/ 1ST GEN. BRACKETS

## HALO SYSTEM COMPONENTS - FOR 1ST GENERATION BRACKETS

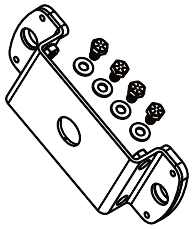
One component or kit from each category is required for a complete wheel-end installation.

**1**



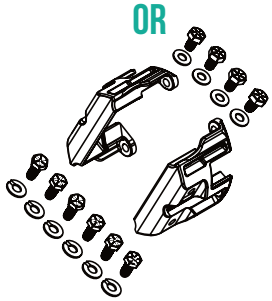

Halo Tire Inflator™

**2**



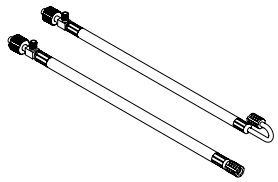
Tractor Bracket Kit

OR



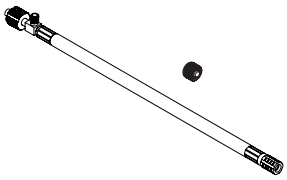
Trailer Bracket Kit

**3**



Hoses For Dual Tires

OR



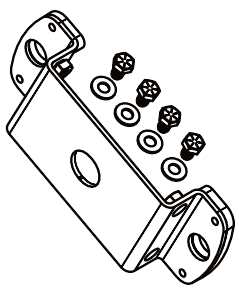
Hose for Wide-base

## 1ST GENERATION BRACKET KITS

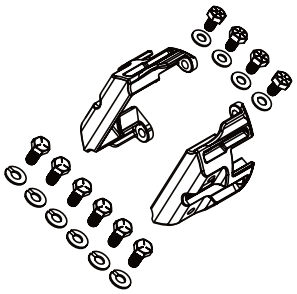
| Part Number | Tractor/Trailer | Description | Hub Stud/ Bolt Diameter | Stud/Bolt Circle Dia. | # of Studs/ Bolts |
|---|---|---|---|---|---|
| BR-8758A | Tractor | Drive Axle | 5/8 in. | 7 in. | 8 |
| BR-8758TB | Tractor | Tall for 6x2 tag/push | 5/8 in. | 7 in. | 8 |
| BR-8734B | Tractor | Drive Axle | 3/4 in. | 7 in. | 8 |
| BR-8758AC | Tractor | Drive Axle | 5/8 in. | 7 in. | 8 |
| BR-4009A** | Trailer/Lift Axle | N-type Spindle | 5/16 in. | 5 1/2 in. | 6 |
| BR-4195A** | Trailer/Lift Axle | P-type Spindle | 5/16 in. | 6 3/4 in. | 6 |

**Trailer/lift axle brackets ship with replacement hubcap bolts.(FA-200A)

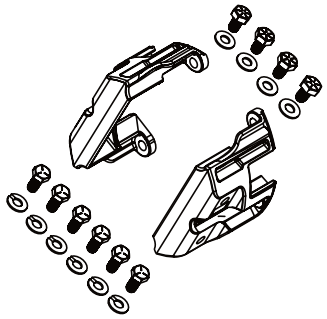
BR-87XXA



BR-4009A



BR-4195A



# HALO W/ 1ST GEN. BRACKETS

# FLOWBELOW PARTS

The Halo is compatible with FlowBelow wheel covers on trucks with either dual or wide-base tires. The Aperia sales team can help determine which parts you need to ensure a proper fit with your vehicle.

| Part Number | Description |
|---|---|
| AC-200FB | FlowBelow to Halo Adaptor |
| AC-215FB | FlowBelow Standoff Kit, 1.5 in. |
| AC-220FB | FlowBelow Standoff Kit, 2.0 in. |
| BR-8758AC | Tractor, Accessory Bracket |
| FA-101FB | Fastener Kit, FlowBelow Mounting Nuts |

# TAMPER RESISTANT KITS

The Tamper-Resistant Fastener Kit (FA-100TR) is designed and engineered to deter theft attempts. The tool (TK-100TR) is shipped separately in a labeled bag and should be stored in the vehicle after installation.

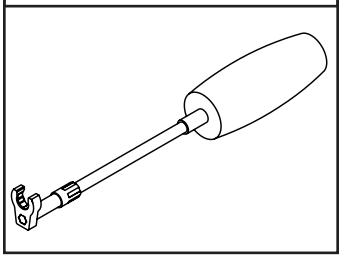
| Part Number | Description |
|---|---|
| FA-100TR | Fastener Kit, Tamper-Resistant, 1 Vehicle (4 Halos), Security Torx |
| TK-100TR | Tool Kit, Tamper-resistant Torx |

# SERVICE KITS & TOOL KITS

Service kits include the parts and consumable items required to return damaged Halos to working order. Tool kits contain tools that work best with the Halo.

| Part Number | Description |
|---|---|
| TK-100HI | Tool Kit, Hose Install |
| SK-101AD | Service Kit, Replacement, Halo Adaptor Plate, 1.0 |
| SK-200AD | Service Kit, Replacement, Halo Adaptor Plate, 2.0 |
| SK-200HF | Service Kit, Replacement, Round Hose Fittings |
| TK-200HF | Tool Kit, Round Hose Fittings |

TK-100HI



Speed up install and removal. Reach the hose at the valve stem.

# FASTENER REPLACEMENT KITS

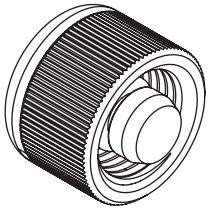
Aperia's fasteners have been designed to ensure proper strength and corrosion resistance. Be sure to replace any lost or damaged fasteners with fasteners provided by Aperia.

| Part Number | Description | Included with |
|---|---|---|
| FA-100BR | Fastener Kit, Replacement, Halo Adaptor Plate to Bracket, 1 Halo | All Brackets |
| FA-200A | Fastener Kit, Replacement, Trailer Bracket, Hubcap Bolts, 6 bolts | Trailer Brackets |
| FA-100AD | Fastener Kit, Replacement, Halo Adaptor Plate, 1.0 | SK-101AD |
| FA-200AD | Fastener Kit, Replacement, Halo Adaptor Plate, 2.0 | SK-200AD |
| FA-100FB | Fastener Kit, Replacement, FlowBelow Adaptor | AC-200FB |
| FA-100CH | Fastener Kit, Chrome Cover | AC-200CH |

# ACCESSORIES/REPLACEMENT PARTS

| Part Number | Description |
|---|---|
| AC-200CH | Halo Chrome Cover |
| AC-100HS | Conversion Cap, Dual Tires to Wide-base Tires |
| AC-100HR | Hose Retention Kit |

AC-100HS



# INSTRUCTIONS & USER MANUALS

| Part Number | Description |
|---|---|
| IN-100UM | User Manual, Halo Tire Inflator |
| IN-100RL | Roadside Service Instruction Label |

Find more product documentation on the Aperia literature webpage.
www.aperiatech.com/literature

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