Questions about Alcoa® Wheel Accessories

If you have questions about our products, please call 800-242-9898, and a customer service representative will assist you.

Accessory Warranty

This warranty covers all wheel accessories listed in this Accessory Products Catalog and all other wheel accessories sold and/or manufactured by Alcoa Wheels ("Wheel Accessories"). Alcoa Wheels warrants Wheel Accessories to be free from any manufacturing defects for two (2) years from the date of purchase. If a Wheel Accessory is defective at any time during the above-described warranty period, the Wheel Accessory shall be returned along with the original receipt and a brief description of the defect to Arconic Wheel and Transportation Products, 3320 Gilchrist Rd., Mogadore, Ohio 44260. Upon confirmation that the Wheel Accessory is defective, Alcoa Wheels shall replace the defective Wheel Accessory. Alcoa Wheels shall have no other liability for breach of warranty. For more information regarding warranty coverage or procedures, please call 800-242-9898 option #1 to speak with an Alcoa Wheels representative.

This warranty is limited to the original consumer purchaser of the Wheel Accessory and expires immediately upon transfer of the Wheel Accessory to another individual or entity. Alcoa Wheels does not warrant against defects that are caused by misuse or abuse of the Wheel Accessory. ADDITIONALLY, ALCOA WHEELS HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALCOA WHEELS IS NOT RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE WHEEL ACCESSORIES. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Nothing in this warranty shall be construed as superseding or adding to any Alcoa Wheels warranty for truck wheels, light truck, wheels, auto wheels or other products.

California Proposition 65 Warning

Pursuant to the California Safe Drinking Water and Toxic Enforcement Act of 1986 ("Proposition 65"), Alcoa Wheels is providing information regarding the presence of a chemical known to the state of California to cause cancer or reproductive toxicity (a "Proposition 65-listed chemical") in products we sell. This information is being provided to inform customers about the presence of a Proposition 65-listed chemical in products so that they may take additional steps to comply with any applicable Proposition 65 warning requirements for their California employees or end users / consumers in California. Because Alcoa Wheels does not have knowledge of or control over the various ways in which our products may be used in the manufacture of consumer products that are sold or supplied in California or in occupational settings in California, we make no determination as to whether our products may result in an exposure requiring a warning under Proposition 65 to individuals in California. However, if manufacturers or distributors determine that a Proposition 65 warning is required based on the anticipated uses of Alcoa Wheels products, or other products which may be composed in part of Alcoa Wheels products, such warning should be provided consistent with the Article 6 Clear and Reasonable Warnings regulation, 27 C.C.R. § 25600 et. seq. Specific products that contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm can be found at https://www.arconic.com/alcoawheels/north-america/en/california-prop-65-warning.asp.

Service Manual For Alcoa Wheels

This limited warranty should be used in conjunction with the Service Manual For Alcoa Wheels. The Service Manual For Alcoa Wheels contains important safety information and warnings, and failure to read and understand this information may result in serious injury or death. The limited warranty is included with the Wheel Service Manual, but may appear elsewhere. If you do not have copies of the Service Manual For Alcoa Wheels, you may obtain copies free of charge from Arconic Wheel and Transportation Products, 1616 Harvard Avenue, Cleveland, Ohio 44105, (800) 242-9898 and on the Web and at www.alcoawheels.com.

1 The Alcoa trademarks are owned by Alcoa Corporation and used by Arconic under license from Alcoa Corporation.

The Starburst design is a registered Trademark of Arconic.
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*Starburst design indicates application guidelines and other details on how to use our products.*
One-Piece Hub Cover System with Secure Fit Retention

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Wheel Type</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>088100S</td>
<td>Front Axle Kit includes: Two front covers, six retention nuts, and one removal tool. Requires a minimum of 3 threads per stud. Maximum stud standout 3”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>Chrome</td>
</tr>
<tr>
<td>089100S</td>
<td>Rear Axle Kit includes: Two rear covers, six retention nuts, and one removal tool. Requires a minimum of 3 threads per stud. Maximum stud standout 4”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>Chrome</td>
</tr>
<tr>
<td>088100S-BLK</td>
<td>Front Axle Kit includes: Two front covers, six retention nuts, and one removal tool. Requires a minimum of 3 threads per stud. Maximum stud standout 3”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>Black</td>
</tr>
<tr>
<td>089100S-BLK</td>
<td>Rear Axle Kit includes: Two rear covers, six retention nuts, and one removal tool. Requires a minimum of 3 threads per stud. Maximum stud standout 4”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>Black</td>
</tr>
</tbody>
</table>

Hand tighten retention nuts over studs in a triangular pattern so that they align with three of the five inner retention cylinders underneath the lug nut features of the hub cover. Use a short handle rubber mallet to secure the cover over the retention nuts. A slight gap of 2mm will be seen due to improved standoff design.

New! Improved Retention. Fits More Applications.

- Improved secure fit retention system provides consistent contact points for cover
- Maintains convenient one-piece design
- Taller nut towers accommodate increased stud standout and ensure systems fits more applications
- Improved standoff design preserves wheel finish
Classic One-Piece Hub Cover System

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Wheel Type</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>086100S</td>
<td>Front Axle Kit includes: Two front covers and one removal tool. Use a short handle rubber mallet for application. Maximum stud standout 2.50”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>Chrome</td>
</tr>
<tr>
<td>087100S</td>
<td>Rear Axle Kit includes: Two rear covers, six retention nuts, and one removal tool. Use a short handle rubber mallet for installation. Maximum stud standout 2.50”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

*Use when you have less than three stud threads available above the lug nut. Cap will contact the wheel when fully installed.*

**It’s a One-Piece Wonder!**

- Clamps directly to lug nuts ensuring compatibility with flush nut configurations
- Easy on-off attachment system
- Reduces parts inventory for dealership
- Proven design

Stud standout is the distance from the wheel to the end of the stud with the wheel securely mounted.
Multi-Piece Hub Cover System with Clamp-on Hug-A-Lugs®

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Wheel Type</th>
<th>Nut Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>076188</td>
<td>Front Hub Cover Kit includes: One hub cover, 10 Hug-A-Lugs® with clamps and one wrench. Cover secured by screwing 001881 onto inner clamp placed on hex nut. Max. stud standout 2.32”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>001881 (clamp) 33mm</td>
</tr>
<tr>
<td>077188</td>
<td>Rear Hub Cover Kit includes: One hub cover, 10 Hug-A-Lugs® with clamps and one wrench. Cover secured by screwing 001881 onto inner clamp placed on hex nut. Max. stud standout 2.32”.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>001881 (clamp) 33mm</td>
</tr>
</tbody>
</table>

Use this clamping Hug-a-Lug® stud attachment system when you have less than 4 stud threads available above the lug nuts.

Classic, Multi-Piece Styling for that Traditional Look

- Classic 11-Piece Design
- Highly reflective superior finish
- 2-year warranty
- Designed for hub piloted wheels
- Available in front and rear applications

Select the Appropriate Kit for Your Application

Easy to install and maintenance free, these kits are available in two Hug-A-Lug® attachment systems depending on stud threads available above the lug nut.
## Multi-Piece Hub Cover System with Stud-Gripping, Screw-on Hug-A-Lugs®

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Wheel Type</th>
<th>Nut Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>076185</td>
<td>Front Hub Cover Kit includes: One hub cover, 10 screw-on Hug-A-Lugs® and one wrench. Cover secured by screwing 001851 directly onto stud threads. Max. stud standout 2.30”. Requires a minimum of 4 threads per stud.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>001851 (screw-on) 33mm</td>
</tr>
<tr>
<td>077185</td>
<td>Rear Hub Cover Kit includes: One hub cover, 10 screw-on Hug-A-Lugs® and one wrench. Cover secured by screwing 001851 directly onto stud threads. Max. stud standout 2.30”. Requires a minimum of 4 threads per stud.</td>
<td>Hub Pilot for 10-Hole, 285.75mm, 22.5” and 24.5” Wheels</td>
<td>001851 (screw-on) 33mm</td>
</tr>
</tbody>
</table>

*Use this stud-gripping, screw-on Hug-A-Lug® attachment and system to secure the center axle cover when you have 4 or more threads available above the lug nut.*

For technical assistance with identifying the correct product for your heavy duty truck, call 800.242.9898
Components for Multi-Piece Hub Cover Systems

Hub Covers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>076100</td>
<td>Front Axle Cover for Multi-Piece Hub Cover System</td>
<td>Chrome</td>
</tr>
<tr>
<td>077100</td>
<td>Rear Axle Cover for Multi-Piece Hub Cover System</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

Hug-A-Lug® Nut Covers for 33mm Hex Two-Piece Flange Nuts (Hub Pilot Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>For Nut Heights</th>
<th>Maximum Stud Standout</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001851</td>
<td>For 33mm Hex Two-Piece Flange Nut for Trucks (screw-on)</td>
<td>27-31mm</td>
<td>2.30”</td>
<td>Chrome</td>
</tr>
<tr>
<td>001881</td>
<td>For 33mm Hex Two-Piece Flange Nut for Trucks (clamp-on)</td>
<td>27-31mm</td>
<td>2.32”</td>
<td>Chrome</td>
</tr>
<tr>
<td>000188</td>
<td>Black Interlocking Clamp (replacement)</td>
<td>27-31mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>000888</td>
<td>Off-White Interlocking Clamp (replacement)</td>
<td>27-31mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hug-A-Lug® Nut Covers for 1.5” Hex Nut (Ball Seat Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Maximum Stud Standout</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001551</td>
<td>For 1.5” Hex Ball Seat Nut, with clamps</td>
<td>1.91”</td>
<td>Chrome</td>
</tr>
<tr>
<td>000155</td>
<td>White Interlocking Clamps (replacements)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>000555</td>
<td>Gray Interlocking Clamps (replacements)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hub Cover System Hug-A-Lug® Nut Cover Wrenches

<table>
<thead>
<tr>
<th>Part No. Single</th>
<th>Part No. Shelf Pack (5)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000500</td>
<td>000500SP</td>
<td>Cap Nut Cover Wrench for Ball Seat Hug-A-Lugs®, for 001551</td>
</tr>
<tr>
<td>000600</td>
<td>000600SP</td>
<td>Cap Nut Cover Wrench for Hub Piloted Hug-A-Lugs®, for 001851 and 001881</td>
</tr>
</tbody>
</table>
Hug-A-Lug® Two-Piece Nut Covers for 33mm Hex Flange Nuts
(Hub Pilot Wheels)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>001801</td>
<td>001802</td>
<td></td>
<td>For 33mm Hex Flange Nut for Buses</td>
<td>1.95”</td>
<td>.886” - 1.0”</td>
<td>Chrome</td>
</tr>
<tr>
<td>001811</td>
<td>001812</td>
<td>001813</td>
<td>For 33mm Hex Flange Nut for Trucks</td>
<td>1.95”</td>
<td>27-31mm</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

Hug-A-Lug® Nut Covers for 1.5” Hex Two-Piece Flange Nuts
(Hub Pilot Wheels)

<table>
<thead>
<tr>
<th>Part No. Single</th>
<th>Part No. Shelf Pack (10)</th>
<th>Description</th>
<th>Maximum Stud Standout</th>
<th>For Nut Heights</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001821</td>
<td>001822</td>
<td>For 1.5” Hex Flange Nut for Trucks</td>
<td>2.20”</td>
<td>1.4375”</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

Hug-A-Lug® Nut Covers for 1.5” Hex Nut
(Ball Seat, Stud Located Wheels)

<table>
<thead>
<tr>
<th>Part No. Single</th>
<th>Part No. Shelf Pack (10)</th>
<th>Description</th>
<th>Maximum Stud Standout</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001501</td>
<td>001502</td>
<td>For 1.5” Hex Stud-pilot Nut</td>
<td>1.87”</td>
<td>Chrome</td>
</tr>
</tbody>
</table>
## Wheel Cap Nuts (Fasteners)
### Outer Cap Nuts (For Two-Piece Flange Nuts - Hub Pilot Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Single</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>039874</td>
<td></td>
<td>Two-piece, 26.25mm height, 33mm hex, M22 x 1.5mm, RH thread flange nut. Mounts single and dual aluminum wheels with 26mm bolt holes to wheel centering hubs. Right-hand threads used on both sides of vehicle.</td>
</tr>
<tr>
<td>617722</td>
<td></td>
<td>Geomet coated. Two-piece, 32.5mm height, 33mm hex, M22 x 1.5mm, RH thread, sleeved cap nut. Mounts single aluminum wheels with 32mm bolt holes, to wheel centering hubs with stud standouts less than 1.71” (43.5mm). Right-hand threads used on both sides of vehicle. Inserts (INSM22) included.</td>
</tr>
<tr>
<td>617736</td>
<td></td>
<td>Geomet coated. Two-piece, 46mm height, 33mm hex, M22 x 1.5mm, RH thread, sleeved cap nut. Mounts single aluminum wheels with 32mm bolt holes, to wheel centering hubs with stud standouts less than 2.85” (72mm). Right-hand threads used on both sides of vehicle. Inserts (INSM22) included.</td>
</tr>
<tr>
<td>430632</td>
<td></td>
<td>Phos and oil coated. Two-piece, 50mm height, 33mm hex, M22 x 1.5mm, RH thread, sleeved cap nut. Mounts single aluminum wheels, with 32mm bolt holes, to wheel centering hubs with stud standouts less than 1.71” (43.5mm). Right-hand threads used on both sides of vehicle.</td>
</tr>
<tr>
<td>430732</td>
<td></td>
<td>Phos and oil coated. Two-piece, 78.5mm height, 33mm hex, M22 x 1.5mm, RH thread, sleeved cap nut. Mounts dual aluminum wheels, with 32mm bolt holes, to wheel centering hubs with stud standouts less than 2.85” (72mm). Right-hand threads used on both sides of vehicle.</td>
</tr>
</tbody>
</table>

*Refer to Service Manual for Alcoa Wheels for minimum stud standouts for single and dual wheel applications. The recommended length of engagement between the threads of the stud and the sleeved nut is equivalent to 95% or more of the diameter of the stud. The minimum recommended number of thread engagement between stud and sleeved nut for M22x1.5 studs is 14 full turns.*
## Wheel Cap Nuts (Fasteners)
### Outer Cap Nuts (Ball Seat Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Kit (contains 6 each of)</th>
</tr>
</thead>
<tbody>
<tr>
<td>499100</td>
<td>Complete truck kit – metric medium duty aluminum wheel ball seat mounting kit – M20/1.5 stud thread size, dual aluminum rear wheels kit</td>
<td>499211 left cap nut front, 499222 right cap nut front, 499331 left inner cap nut rear, 499342 right inner cap nut rear, 499451 left cap nut rear, 499462 right cap nut rear</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Thread Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>499211</td>
<td>499211SP</td>
<td>Left</td>
<td>M20x1.5 cap nut – mounts front single ball seat wheels.</td>
</tr>
<tr>
<td>499222</td>
<td>499222SP</td>
<td>Right</td>
<td>3/4” x 16 cap nut – mounts standard single wheels and wide base wheels to 3/4” studs.</td>
</tr>
<tr>
<td>599501</td>
<td>599501SP</td>
<td>Left</td>
<td></td>
</tr>
<tr>
<td>599502</td>
<td>599502SP</td>
<td>Right</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Thread Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>499451</td>
<td>499451SP</td>
<td>Left</td>
<td>M30x1.5 – mounts double ball seat aluminum wheels in conjunction with inner cap nut, secures outer dual.</td>
</tr>
<tr>
<td>499462</td>
<td>499462SP</td>
<td>Right</td>
<td>1 1/8” x 16 cap nut – mounts standard single wheels and wide base wheels to 1 1/8” studs and provides additional 1/8” hex height. Also mounts outer dualed wheel to 1 1/8” inner cap nut.</td>
</tr>
<tr>
<td>599601</td>
<td>599601SP</td>
<td>Left</td>
<td></td>
</tr>
<tr>
<td>599602</td>
<td>599602SP</td>
<td>Right</td>
<td></td>
</tr>
</tbody>
</table>

## Inner Cap Nuts (Ball Seat Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Thread Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>499331</td>
<td>499331SP</td>
<td>Left</td>
<td>M20/M30x1.5 – for use with dual aluminum ball seat wheels. Secures inner dual in conjunction with outer cap nut</td>
</tr>
<tr>
<td>499342</td>
<td>499342SP</td>
<td>Right</td>
<td>For use with standard length studs (1.31” to 1.44” stud standout) or longer studs not to exceed 1.88” stud standout. Full external threads, counter bore 5/16” deep at open end. For use with aluminum inner and outer wheels. Prevents stud from bottoming out in cap nut.</td>
</tr>
</tbody>
</table>
Grommet Seal Valve Stems

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Valve No.</th>
<th>A or C Height</th>
<th>Bend Angle</th>
<th>B Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>005401</td>
<td>54M500</td>
<td>2.12”</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>005520</td>
<td>552</td>
<td>1.26”</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>005530</td>
<td>553</td>
<td>2.31”</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>005533</td>
<td>553C</td>
<td>.93”</td>
<td>45°</td>
<td>1.38”</td>
</tr>
<tr>
<td>005535</td>
<td>553E</td>
<td>.98”</td>
<td>75°</td>
<td>1.38”</td>
</tr>
<tr>
<td>005544</td>
<td>554D</td>
<td>.98”</td>
<td>60°</td>
<td>1.94”</td>
</tr>
<tr>
<td>005554</td>
<td>555D</td>
<td>.98”</td>
<td>60°</td>
<td>2.6”</td>
</tr>
<tr>
<td>005555</td>
<td>555E</td>
<td>.98”</td>
<td>75°</td>
<td>2.6”</td>
</tr>
<tr>
<td>007007</td>
<td>70M507</td>
<td>1.59”</td>
<td>7°</td>
<td>1.12”</td>
</tr>
</tbody>
</table>

It is recommended that valve stems be changed at every tire change. See Service Manual For Alcoa Wheels for replacement instructions. Valve numbers 552, 554D, 555D are also available in a black finish for use with Alcoa® Dura-Black Wheels.

Grommet Seal Valve Stem Features

- Longer sealing life
- Greater corrosion resistance
- Larger sealing surface
- Grommet has better temperature range and tear resistance

* Height A is used in place of C when valve stem has no bend angle.
## Valve Stem Extension Stabilizer Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Stabilizer (2)</th>
<th>Extensions (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULTRAKT</td>
<td>For ULTRAx wheels with 2.6” diameter hand hole, valve stem diameter 0.33”, off-center hole</td>
<td>ULTRASTB</td>
<td>000392</td>
</tr>
<tr>
<td>225392</td>
<td>For 87140x, 87240x, 87340x, 87360x, 88311x, 88361x wheels with 2.00” diameter hand hole, stem diameter 0.33”, center hole</td>
<td>002225</td>
<td>000392</td>
</tr>
<tr>
<td>227392</td>
<td>For 22.5” wheels with 2.50” diameter hand hole, stem diameter 0.33”, center hole</td>
<td>002227</td>
<td>000392</td>
</tr>
<tr>
<td>864392</td>
<td>For 88267x and 88367x wheels with 2.50” diameter hand hole, stem diameter 0.33”, off-center hole</td>
<td>008864</td>
<td>000392</td>
</tr>
<tr>
<td>927245</td>
<td>For 98U63x wheels with 2.50” diameter hand hole, stem diameter 0.33”, off-center hole</td>
<td>027245</td>
<td>000392</td>
</tr>
</tbody>
</table>

*Each kit is designed to fit a specific wheel family. By using the correct valve stem extension and stabilizer, checking tire pressure or adding air is as easy to do on the inside positions as on the outside positions.*

## Valve Stem Extensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Collar Type</th>
<th>Effective Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>Single</td>
<td>Valve Stem Extension (Plastic)</td>
<td>Long 1”</td>
<td>5.21”</td>
</tr>
<tr>
<td>000352</td>
<td>000352SP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>000392</td>
<td>000392SP</td>
<td>Valve Stem Extension (Metal)</td>
<td>Long 1”</td>
<td>5.125”</td>
</tr>
</tbody>
</table>

---

**Valve Stem Extension Stabilizer Kits**

**Valve Stem Extensions**
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULTRASTB</td>
<td>Fits wheel size: 22.5” For ULTRAx Hand Hole Diameter: 2.6” Hole Position: Off-Center</td>
</tr>
<tr>
<td>002126</td>
<td>Fits wheel size: 19.5” For 77349x, 77362x Hand Hole Diameter: 1.50” Hole Position: Off-Center</td>
</tr>
<tr>
<td>002127</td>
<td>Fits wheel size: 17.5” For 68307x Hand Hole Diameter: 1.50” Hole Position: Center</td>
</tr>
<tr>
<td>002225</td>
<td>Fits wheel size: 22.5” For 87140x, 87240x, 87340x, 87360x, 88311x, 88361x Hand Hole Diameter: 2.00” Hole Position: Center</td>
</tr>
<tr>
<td>002245</td>
<td>Fits wheel size: 24.5” For 98361x, 98565x Hand Hole Diameter: 2.38” Hole Position: Off-Center</td>
</tr>
<tr>
<td>027245</td>
<td>Fits wheel size: 24.5” For 98U63x Hand Hole Diameter: 2.70” Hole Position: Off-Center</td>
</tr>
<tr>
<td>008864</td>
<td>Fits wheel size: 22.5” For 88267x and 88367x Hand Hole Diameter: 2.50” Hole Position: Off-Center</td>
</tr>
<tr>
<td>008964</td>
<td>Fits wheel size: 22.5” For 89U64x Hand Hole Diameter: 2.00” Hole Position: Off-Center</td>
</tr>
<tr>
<td>008964SP</td>
<td>Fits wheel size: 22.5” For 89U64x Hand Hole Diameter: 2.00” Hole Position: Off-Center</td>
</tr>
<tr>
<td>027245SP</td>
<td>Fits wheel size: 24.5” For 98U63x Hand Hole Diameter: 2.70” Hole Position: Off-Center</td>
</tr>
</tbody>
</table>

Valve Stem Extension Stabilizers
Service Gauges

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>001605</td>
<td>001605SP</td>
<td>10-150 PSI</td>
<td>2 PSI</td>
<td>Nylon</td>
<td>Straight-on</td>
<td>Black</td>
</tr>
<tr>
<td>001805</td>
<td></td>
<td>10-150 PSI</td>
<td>2 PSI</td>
<td>Nylon</td>
<td>Straight-on</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

"The comfortable padding on these gauges allows a positive grip during inclement weather conditions and serves as a protective cushion should the gauge be inadvertently dropped."

Air Chucks

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>003500</td>
<td>Design offers durability and is user friendly on the straight-on and 30° reverse angle chuck. This 6” long chuck finished with an attractive black polyurethane coating has 1/4” NPT female threads.</td>
</tr>
<tr>
<td>003700</td>
<td>A special air chuck with a straight-on connection and a 180° reverse chuck allows easier access to valves located in tight, hard-to-reach places. The 003700 is 6” long and has 1/4” NPT female threads.</td>
</tr>
</tbody>
</table>

Valve Caps and Remover

<table>
<thead>
<tr>
<th>Part No. Single</th>
<th>Part No. Shelf Pack (10)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001009</td>
<td>001009SP</td>
<td>Double seal valve cap seals at the top of the cap which prevents dirt and water from penetrating the cap, eliminating the chances of clogged air passages due to ice and debris. Allows for inflation and deflation of the tire without removing the cap. A great time saver.</td>
</tr>
<tr>
<td>000633</td>
<td></td>
<td>Valve cap remover makes it easy to remove and install valve caps on inside dual wheels. Designed for aluminum wheels with small hand holes, it comes with a protective sleeve to prevent scratching. Also works great at removing tight or cross-threaded caps. Positive hold while valve is serviced. Keeps cap in tool.</td>
</tr>
</tbody>
</table>

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Heavy Duty Applications - Maintenance

14
E-Z Mount Wheel Alignment Sleeves
(For Steer, Drive and Trailer Axle Applications with a 22mm Diameter Stud)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000426</td>
<td>Individual Wheel Alignment Sleeve</td>
</tr>
<tr>
<td>407422</td>
<td>Wheel Alignment Sleeve Kit (2 sleeves)</td>
</tr>
</tbody>
</table>

Alcoa Wheels E-Z Mount Wheel Alignment Sleeves play a key role in improving the wheel mounting process and work on steer, drive, and trailer axle applications with a 22mm diameter stud.

- Align wheel bolt holes
- Seat brake drums that have .908 diameter bolt holes
- Prevent thread damage to M22x1.5 studs
- Assist in lining up all components for ease of install

Rim Flange Wear Gauge

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000700</td>
<td>Tool used to identify rim flange wear</td>
</tr>
</tbody>
</table>

Refer to Service Manual For Alcoa Wheels for additional information and usage guidelines to determine rim flange wear.
Hub Cover System Kit for Sprinter 3500 Chassis (25180x wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Circle</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>021135</td>
<td>Front Axle Kit includes: Two front hub covers (21000) and 12 lug nut covers (000135).</td>
<td>6 x 205mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>022135</td>
<td>Front Axle Kit includes: Two rear hub covers (22000) and 12 lug nut covers (000135).</td>
<td>6 x 205mm</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

For RVs and other applications that use the Sprinter 3500 chassis, place cover over hub and push nut covers over OEM lug nuts.

Wheel Hub Cover System for 8-Hole, 275mm, 17.5” and 19.5” Wheels (66348x, 76542x, 77349x wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Circle</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>008201</td>
<td>Front Hub Cover Kit for 30mm Hex Flange Nuts includes: One front hub cover and 8 lug nut covers (000200).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>008202</td>
<td>Rear Hub Cover Kit for 30mm Hex Flange Nuts includes: One rear hub cover and 8 lug nut covers (000200).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>008212</td>
<td>Front and Rear Axle Kit for 30mm Hex Flange Nuts includes: Two front hub covers, two rear hub covers, and 32 lug nut covers (000200).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>008221</td>
<td>Front Hub Cover Kit for 33mm Hex Flange Nuts includes: One front hub cover and 8 lug nut covers (000220).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>008222</td>
<td>Rear Hub Cover Kit for 33mm Hex Flange Nuts includes: One front hub cover and 8 lug nut covers (000220).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>008212</td>
<td>Front Axle Kit for 33mm Hex Flange Nuts includes: Two front hub cover and 16 lug nut covers (000220).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>0082133</td>
<td>Rear Axle Kit for 33mm Hex Flange Nuts includes: Two rear hub cover and 16 lug nut covers (000220).</td>
<td>8 x 275mm</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

Requires a minimum of three threads per stud. Place cover over hub and secure with nut covers. Black spacer not applicable with short lug nut. Grey boxes above represent kits for 30mm hex flange nuts. Center cap removes for easy access to hub.
# Wheel Hub Cover System for 8-Hole, 275mm, 17.5” and 19.5” Wheels

(66348x, 76542x, 77349x wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Circle</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001402</td>
<td>Front Hub Cover Kit includes: One front hub cover.</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>140230B</td>
<td>Front Axle Kit for 30mm Hex Flange Nuts includes: Two front hub cover and 16 lug nut covers (000230).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>140233</td>
<td>Front Axle Kit for 33mm Hex Flange Nuts includes: Two front hub cover and 32 lug nut covers (000233).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>140233A</td>
<td>Front Axle Kit for 33mm Hex Flange Nuts includes: Two front hub cover and 16 lug nut covers (000233).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

Use when no stud threads are available. Place cover over hub and push nut covers over lug nuts. Grey boxes above represent kits for 30mm hex flange nuts.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Circle</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001109</td>
<td>Rear Hub Cover Kit includes: One rear hub cover, one bolt (001763), and one bracket (001834).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>109176</td>
<td>Rear Axle Kit includes: Two rear hub covers kits (001109).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>109176A</td>
<td>Rear Axle Kit for 33mm Hex Flange Nuts includes: Two rear hub cover kits and 16 lug nut covers (000233).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>109176B</td>
<td>Rear Axle Kit for 30mm Hex Flange Nuts includes: Two rear hub cover kits and 16 lug nut covers (000230).</td>
<td>8 x 275mm</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

Use when no stud threads are available. Secure cover with bracket and bolt system, and push nut covers over lug nuts. Grey boxes above represent kits for 30mm hex flange nuts.
### Wheel Hub Cover System for 10-Hole, 225mm, 19.5" Wheels (76329x wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Circle</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>001004</td>
<td>Front Hub Cover Kit includes: One front cover, fits Ford F-450 and F-550 (Model Year 2005-2016)</td>
<td>10 x 225mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>001005</td>
<td>Rear Hub Cover Kit includes: One rear cover, fits Ford F-450 and F-550 (Model Year 2005-2016)</td>
<td>10 x 225mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>001006</td>
<td>Front Hub Cover Kit includes: One front cover, fits Ford F-450 and F-550 (Model Year 2017+)</td>
<td>10 x 225mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>001007</td>
<td>Rear Hub Cover Kit includes: One rear cover, fits Ford F-450 and F-550 (Model Year 2017+)</td>
<td>10 x 225mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>100450</td>
<td>Hub Cover Axle Kit includes: Two front covers (001004) and two rear covers (001005), fits Ford F-450 and F-550 (Model Year 2005-2016)</td>
<td>10 x 225mm</td>
<td>Chrome</td>
</tr>
<tr>
<td>100455</td>
<td>Hub Cover Axle Kit includes: Two front covers (001006) and two rear covers (001007), fits Ford F-450 and F-550 (Model Year 2017+)</td>
<td>10 x 225mm</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

*Use the table above to identify the appropriate accessories for your vehicle by model year. Both sets of covers – whose exteriors are identical – secure by snapping on over OEM lug nuts and the hub. Use of the incorrect hub may result in accessory detachment during use.*
### Aluminum Axle End Covers for 8-Hole, 6.5”, 16” and 17.5” Wheels (Hub Pilot Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| 001611   | Height: 1.125” straight  
For Dodge/Ford dualie applications  
Bolt Pattern: 8 x 6.50”  
Fits 16028x (rear), 66140x (front/rear) |
| 001612   | Height: 4.750” straight  
For Dodge/Ford dualie applications  
Bolt Pattern: 8 x 6.50”  
Fits 16028x (rear), 66140x (front/rear) |
| 001613   | Height: 3.50” straight  
For Dodge/Ford dualie applications  
Bolt Pattern: 8 x 6.50”  
Fits 66140x (front/rear) |
| 001681   | Height: 4.750” straight with 3.50” open end  
For Dodge/Ford dualie applications  
Bolt Pattern: 8 x 6.50”  
Fits 16028x (front), 66140x (front/rear) |
| 003611   | Height: 1.125” straight  
For Chevy dualie applications  
Bolt Pattern: 8 x 6.50”  
Fits 16021x (front) |
| 003612   | Height: 4.750” straight  
For Chevy dualie applications  
Bolt Pattern: 8 x 6.50”  
Fits 16021x (rear) |
| 003613   | Height: 3.50” straight  
For Chevy dualie applications  
Bolt Pattern: 8 x 6.50”  
Mount from the front when installing wheels.  
Use lug nuts P/N x39xxxx to secure to end cover.  
Refer to the Product Literature section of our website for installation instructions. |

### Aluminum Axle End Covers for 8-Hole, 6.5”, 16” Wheels (Cone Seat Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| 003167   | Height: 4.700” straight  
Hub bores: 5.150”  
Bolt Pattern: 8 x 6.50”  
Fits 16704x (front/rear) |
| 004167   | Height: 4.000” straight  
Hub bores: 5.150”  
Bolt Pattern: 8 x 6.50”  
Fits 16704x (front/rear) |

Mount from the rear by pushing through the hub bore when installing wheels.
## Axle End Cover Kits for 16028x and 66140x Wheels

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>110413</td>
<td>Hub Cover Axle Kit includes: Two axle end covers (001611) and 16 Hug-a-Lug\textsuperscript{a} nut covers (019001)</td>
<td>Aluminum (end covers) and chrome (nut covers)</td>
</tr>
<tr>
<td>110414</td>
<td>Hub Cover Axle Kit includes: Two axle end covers (001681) and 16 Hug-a-Lug\textsuperscript{a} nut covers (019001)</td>
<td>Aluminum (end covers) and chrome (nut covers)</td>
</tr>
<tr>
<td>110416</td>
<td>Hub Cover Axle Kit includes: Two axle end covers (001612) and 16 Hug-a-Lug\textsuperscript{a} nut covers (019001)</td>
<td>Aluminum (end covers) and chrome (nut covers)</td>
</tr>
</tbody>
</table>

## Axle End Cover Kits for Ford Transit 350HD (26180x wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Package Includes</th>
</tr>
</thead>
<tbody>
<tr>
<td>24019</td>
<td>Hub Cover Kit includes: One axle end cover (front/rear compatible), and 6 Hug-a-Lug\textsuperscript{a} nut covers (019001)</td>
<td>Hub cover, 6 - (019001) Hug-A-Lug\textsuperscript{a} nut covers</td>
</tr>
</tbody>
</table>

\textsuperscript{a} Hug-a-Lug®
### Hug-A-Lug® Nut Covers
(For 16”, 17.5”, and 19.5” Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>For Heights</th>
<th>Fits Nuts</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>000078*</td>
<td>2.125” Tall</td>
<td>.96”</td>
<td>60º Cone</td>
<td>Chrome</td>
</tr>
<tr>
<td>000079*</td>
<td>1.525” Tall</td>
<td>.96”</td>
<td>60º Cone</td>
<td>Chrome</td>
</tr>
<tr>
<td>019001**</td>
<td>Hug-A-Lug®</td>
<td>1 1/16”</td>
<td>2-Piece Flange</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

* Fits Alcoa Part No. xx5xxx Nuts  
** Fits Alcoa Part No. x39xxx Nuts

### Medium Duty Nut Covers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>000135</td>
<td>For use with 16”, 6-lug Hub Piloted, 205mm Bolt Circle</td>
<td>Chrome</td>
</tr>
<tr>
<td>000230</td>
<td>For use with medium duty trucks with 17.5” and 19.5”, 8-lug wheels and 30mm hex</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>000233</td>
<td>For use with medium duty trucks with 17.5” and 19.5”, 8-lug wheels and 33mm hex</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

*Push on over lug nut to secure.*

### Flange Nut Covers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>000200</td>
<td>30mm Hex Flange Nut</td>
<td>Chrome</td>
</tr>
<tr>
<td>000220</td>
<td>33mm Hex Flange Nut</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

*Used to secure multipiece kits 008201, 008202, 008221, and 008222. Requires a minimum of three threads per stud. Black spacer not applicable with short lug nut.*
Medium Duty Applications - Wheel Nuts

Each lug nut has specific inner threads for each application with universal outside threads to accept the Alcoa chrome-plated nut cover. Fits Hug-A-Lug® Part No. 019001.

### Two-Piece Flange Nuts
(For Hub Pilot 16” and 17.5” Wheels & some RV Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No. Shelf Pack (10)</th>
<th>Thread Size</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>139698</td>
<td>139698SP</td>
<td>M14 x 1.5mm (internal thread), 1.050” hex</td>
<td>140 ft. lbs.</td>
</tr>
<tr>
<td>139987</td>
<td>139987SP</td>
<td>9/16” x 18 tpi (internal thread), 1.050” hex</td>
<td>140 ft. lbs.</td>
</tr>
</tbody>
</table>

### Wheel Cap Nuts (Fasteners)

#### 60° Cone Seat Cap Nuts
(For Stud Located 16” Wheels)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No. Shelf Pack (10)</th>
<th>Thread Size</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>005014</td>
<td>005014SP</td>
<td>M14 x 1.5mm, 7/8” hex</td>
<td>100 - 110 ft. lbs.</td>
</tr>
<tr>
<td>005916</td>
<td>005916SP</td>
<td>9/16” x 20 tpi, 7/8” hex</td>
<td>120 - 140 ft. lbs.</td>
</tr>
</tbody>
</table>

Each lug nut has specific inner threads for each application with universal outside threads to accept the Alcoa chrome-plated nut cover. Fits Hug-A-Lug® Part Nos. 000078 and 000079.