AVORA

WHEEL AS IDENTITY

ALUMINUM WHEEL USER MANUAL

Made for your journey. Care for every mile.

Using alloy wheels correctly and safely.

TO RETAILERS

Read this manual so you can give your customers the correct instructions. Please provide this manual to the customer with the wheels.

TO OUR CUSTOMERS

Read this manual before use for your safety. Keep it in your glove compartment or trunk, where it can be easily accessed.

INSTALLATION / SAFETY / CARE

01 / READ FIRST

Before you begin

Check the package

Before mounting tires, examine the wheels to ensure they match the vehicle. Confirm the product size, color and P.C.D. before fitting air valves, tires or balancing weights. If you find visible damage or missing items, contact us immediately.

Returns cannot be accepted for products scratched and/or damaged after an attempted wheel installation.

Understand the safety notices

DANGER - Failure to follow the instructions is highly likely to cause death or serious injury.

WARNING - Failure to follow the instructions can result in death or serious injury.

CAUTION - Failure to follow the instructions can result in personal injury or property damage.

Standards & testing

These aluminum wheels comply with the technical standards for light-alloy disc wheels for motor vehicles: JWL for passenger cars and JWL-T for trucks and buses. They have also passed testing by the Japan Wheel Testing Council and bear the VIA mark.

Statement retained from the supplied manual. Applicability of JWL / JWL-T / VIA to the specific wheel model must be confirmed.

Use limits & warranty

If vehicles are driven in non-conventional ways; if they are abused through racing, rallies or other activities beyond the wheels' limits of use; or if accidents or wheel deformation are caused by factors identified during regular maintenance checks or by cracks in the wheels, Chengdu WELLDONE Technology Co., Ltd. disclaims liability for compensation claims and takes no responsibility. The warranties do not apply.

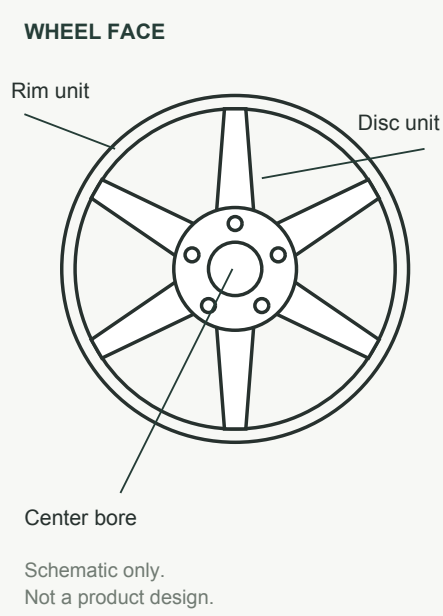
02 / BEFORE FITTING

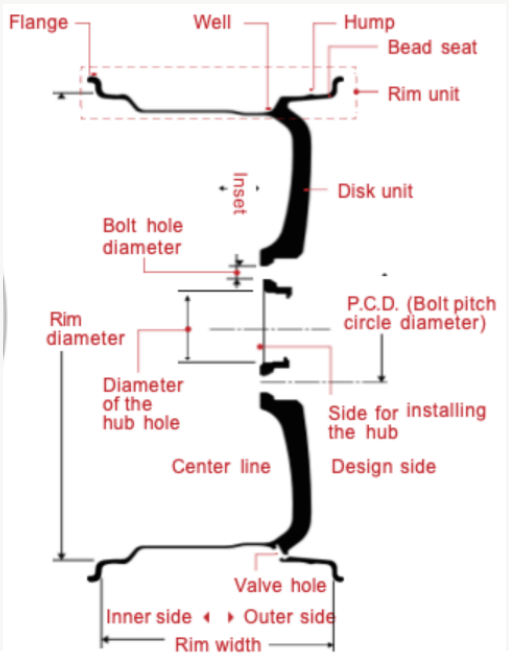
Confirm the fit

CAUTION

Wheel & vehicle compatibility

Verify that the wheel size, number of holes, P.C.D., inset, mounting-face configuration and nuts are compatible with the vehicle. Fit the wheels to the hub only after fitment and compatibility have been confirmed.





WARNING

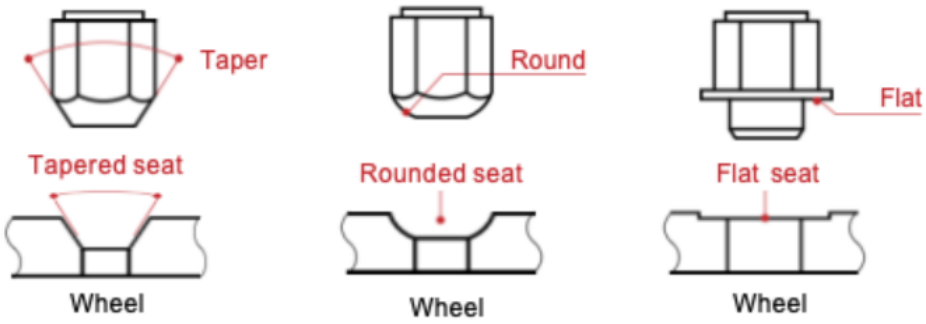
Choose a compatible tire

Select a tire size compatible with the rim size. Fitting a tire to a rim that is extremely wide in relation to the tire width (a “stretched tire”) is extremely dangerous: the bead may come off while driving, or the rim flange may protrude and directly contact a curb or other object.

WARNING

Match the nuts & bolts

Confirm that the lug bolts/nuts are compatible with the wheel. Check the thread pitch, seat type and thread length. An incorrectly sized or shaped lug bolt/nut may loosen while the vehicle is being driven.



03 / BEFORE FITTING

Prepare for installation

WARNING

Hub rings & accessory parts

If accessory spacers or hub rings are used, make sure they are properly attached. Otherwise, nuts and bolts may work loose and come off while the vehicle is moving. Remove hub rings before fitting a spare tire or reinstalling the original wheels.

CAUTION

Air valves

Always use new accessory air valves. Valves that are not properly inserted in the valve holes may leak. Do not reuse removed valves with used grommets, as these can also cause air leaks.

DANGER

Mounting & inflation

When inflating tires during assembly, use safety measures such as a safety enclosure to reduce the risk of tire rupture. Special training is required by law for this inflation operation; the work must be performed by someone who has received that training.

WARNING

Check for air leaks

After assembly, confirm that there are no air leaks, especially where the tire meets the rim and around the valve. Air leaks while driving can damage wheels and tires and lead to accidents.

WARNING

Balance & alignment

After assembly, adjust the balance of all wheels. Improper balance can cause vibration and instability while driving, leading to tire wear. Tire alignment is also advisable.

Extreme suspension camber or similar settings can concentrate excessive load on the inner rim. Uneven stress can damage the wheel or cause an accident. Vehicle alignment after installation is also recommended where possible.

WARNING

Vehicle-specific clearance

Depending on the vehicle, weights, assembly bolts or locating pins may protrude from the brake drum or mounting surface, and washers may protrude at the base of the bolts. Make sure none of these items contacts any part of the wheel.

04 / FITTING & FINAL CHECKS

Tighten. Then check.

CAUTION

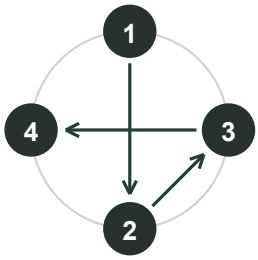
Use a torque wrench

Tighten nuts and bolts to the recommended torque. If the vehicle manual specifies a tightening torque, follow that manual.

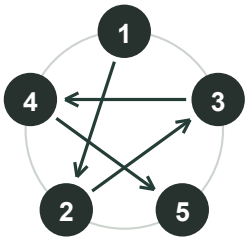
FASTENER	TORQUE (N·m)	TORQUE (kgf·m)
M10	50-70	5.1-7.2
M12	85-132	8.7-13.5
M14	125-180	12.8-18.4

Over-tightening can deform the seats or damage the bolts. Insufficient tightening can allow them to loosen and come off. If an impact wrench is used, first tighten to a low torque, then use a torque wrench to bring the lug nuts to the recommended specification.

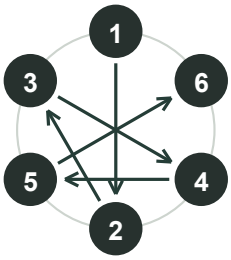
TIGHTENING SEQUENCE



4 HOLES



5 HOLES



6 HOLES

WARNING

Check clearance after fitting

After fitting the wheels, confirm that they do not contact any part of the body or suspension. When checking the front wheels, turn the steering wheel fully to the left and right.

CAUTION

Check tire pressure

Always check tire pressure before driving. Low pressure, especially in low-profile tires, reduces impact absorption and increases stress on the tires and wheels.

Make sure the rubber seal inside the valve cap is fitted securely. Turn the valve cap approximately 90 degrees after the fastening point. Over-tightening the valve cap may cause air leaks.

05 / ON THE ROAD & ROUTINE CARE

Drive with care

100 km RECHECK NUTS & BOLTS
after fitting or rotating the wheels

CAUTION

Recheck during the first 100 km

Nuts and bolts can loosen during the first 100 kilometers after wheels are fitted or rotated. Use a torque wrench to make sure they remain tightened to the recommended torque.

CAUTION

Avoid severe impacts

Avoid aggressive driving, including sudden acceleration, braking and turning. These actions add stress to the tires and wheels and can cause accidents.

Driving over bumps, curbs or sidewalks can bend or deform wheel components. Continuing to drive with a deformed wheel can cause its components to crack.

WARNING

If something feels wrong

If you feel unusual vibration or hear abnormal sounds, stop immediately in a safe place. Check the wheel nuts and bolts and the condition of the tires.

If you find deformation, cracks, loose nuts or bolts, air leaks or any other wheel problem, stop driving and contact your dealer immediately.

CAUTION

Inspect & clean regularly

Aluminum alloy has good corrosion resistance. Even so, wash the wheels with plenty of water after driving in poor road conditions, on roads treated with de-icing chemicals, or in coastal or snowy areas where salt is present.

Mud or salt left on the wheels may cause spots or discoloration. Read the instructions before using wheel or vehicle-body cleaners. Abrasives and highly acidic or alkaline substances may discolor or mark the surface.

Highly concentrated alcohol disinfectants, thinners and similar cleaners may damage wheel surfaces, center caps and other parts.

06 / MODIFICATIONS & CENTER CAPS

Protect the structure

DANGER

Never modify the wheels

Customers and businesses must never modify the wheels. Welding or bending can reduce wheel strength or cause air leaks, leading to broken components or accidents.

The bolts connecting the rims and discs of assembled wheels are tightened to specified torque levels. Never disassemble, tighten or loosen these bolts.

Claims concerning wheels modified by the user will not be accepted.

CAUTION

Install the center cap

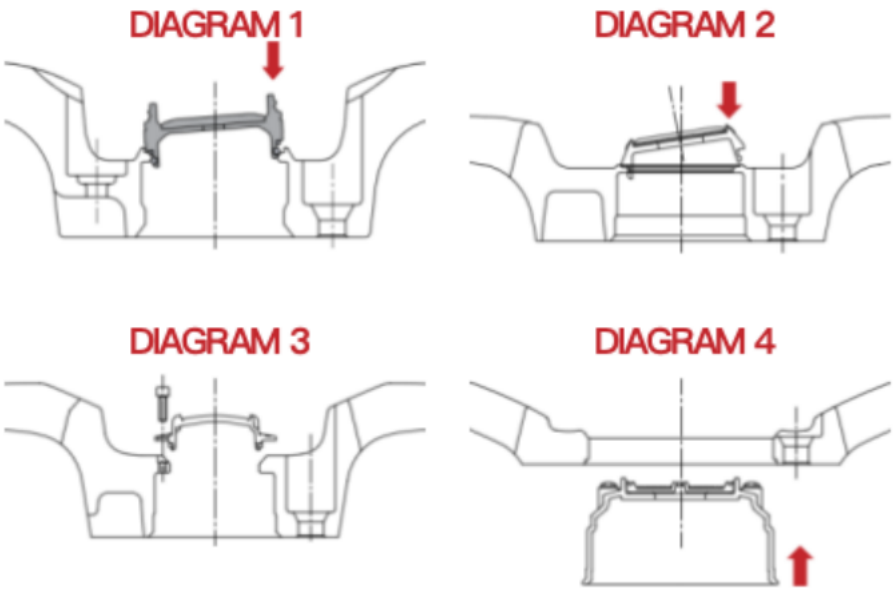
Read and follow the instructions below. Make sure the wheel and center-cap contact area are clean and free of dust and dirt.

Diagram 1. The center-cap O-rings are coated with grease. Do not remove it. If there is insufficient grease when refitting a removed cap, apply new grease or lubricate the wheel assembly.

Diagrams 1 & 2. Insert the cap at an angle and press at the arrow-marked point. Pressing on the decorative center of the cap may damage or deform it.

Diagram 3. Install the center cap using the supplied screws.

Diagram 4. Install the center cap from the inside of the wheel.



07 / REMOVAL, CLEANING & STORAGE

Keep the finish

CAUTION

Remove the center cap

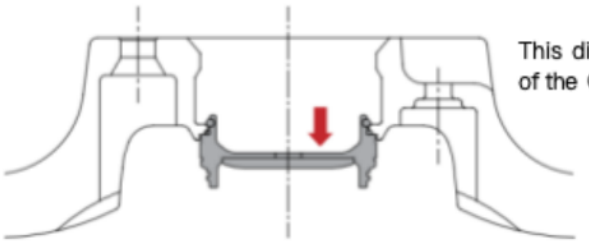
1. Turn the wheel face down. Press the arrow-marked point on the back of the center cap, as illustrated, to remove it.

2. Do not press the hole in the center of the cap's back. Doing so may damage the cap or its decorative finish.

3. Rest the wheel on a flat surface free of debris to avoid damaging its face.

4. Remove the cap carefully. Impact damage, such as hammering, may prevent the cap from fitting correctly and may allow it to come loose.





This diagram shows an example of the O–RING TYPE

Care for delicate finishes

Special finishes and coatings, including diamond mirror-cut, sputtered and anodized finishes, are delicate. Long-term use of some cleaners may scratch or discolor the finish or corrode the aluminum. Avoid highly acidic or alkaline cleaners. Clean thoroughly using a soft cloth and plenty of water.

Do not use cleaners intended for plating or iron-particle removal. If using a cleaning product, read its instructions carefully to ensure it will not damage the finish. Scratches caused by cleaning or rubbing against curbs cannot be repaired.

Friction from sponges or abrasive compounds may cause scratches. Avoid high-speed car-washing machines when cleaning wheels.

Before storing removed tires and wheels, wash and dry them thoroughly. Keep them away from direct sunlight, high temperatures and humidity.

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