



BBS

Instruction Manual



Thank you for purchasing BBS forged wheels. Please read this manual carefully before use of the wheels and fit them in accordance with the instructions in the manual.

©Precautions before installing BBS forged wheels

Please check the contents of the box.

Before mounting the tyres, check the appearance of the product and that they match the vehicle on which they are mounted. Also check that the size, color and PCD are correct. If the tyres are damaged or missing, please contact the dealer immediately.

Terms of use

BBS forged wheels conform to the "Technical Standard for Light Alloy Disc Wheels for Automobiles (JWL)" and have passed the strict tests of the "Automotive Light Alloy Wheel Testing Council" and have been awarded the *VIA mark, but we do not take any responsibility for accidents, deformation or cracking of the wheels caused by driving in places where automobiles are not generally driven, by overuse exceeding the limit of use such as racing and rallying, or by illegal modification.

*The VIA mark does not apply to FI-R.

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The marks at the beginning of the text have the following meanings. Please ensure that you observe the following.



This sign shows that death or serious injury may result from wrong handling.



This sign shows that serious injury or breakage may result from wrong handling.

1 Preparation before wheel installation



1 Selection of wheels and tyres

Never use wheels and tyres that are not compatible with the vehicle on which they are fitted or that are not compatible with the wheel size. Consult your dealer and select wheels and tyres that are compatible with the vehicle on which they are fitted.



2 Checking the bolts and nuts

Always use genuine BBS wheel nuts or bolts. (For PORSCHE and other models, use genuine bolts). Using nuts and bolts that are not compatible with BBS wheels may result in defective wheel mounting and risk of wheel damage accidents.



3 Air valve installation

Use the genuine BBS air valves supplied with the wheels; the specified tightening torques for genuine BBS air valves are as follows.

Aluminum made air valve [Black] (P5615017)	$4 \pm 0.6 \text{ N} \cdot \text{m}$
Except for above	$2 \pm 0.5 \text{ N} \cdot \text{m}$

Use of non-standard air valves may cause air leaks, resulting in damage to the tyre and wheel. Since electrical corrosion might be happened, please do not use brass or aluminum made air valves or valves caps combined together.



4 Checking for air leaks

After tyre installation, be sure to check that there are no air leaks. Ensure that the tyre pressure is correct on all wheels and that the wheels are correctly balanced.



5 About reverse shape wheels

When mounting a tyres on a reverse-shaped wheel, mount it from the inner rim with the inner rim on the upper side. In this case, use a plastic wheel clumper on the tyre changer to prevent damage to the outer rim.



6 Use of hub rings

For wheels of the type that use a hub ring in the mounting hub section, the wheel can be adapted to multiple vehicle models by attaching a hub ring in the mounting hub section. For details, refer to "How to install the hub ring (adapter ring)" on our website. Alternatively, check with your dealer and select a hub ring that is compatible with your vehicle.

Install the hub ring according to the following procedure.

① Place the wheel on a stable platform with the surface to be mounted on the vehicle facing up. (See Fig.1)



Fig.1

② Fit the hub ring that fits the vehicle onto the centre bore with the stepped part (outer circumference) facing up, as shown in Fig. 2.

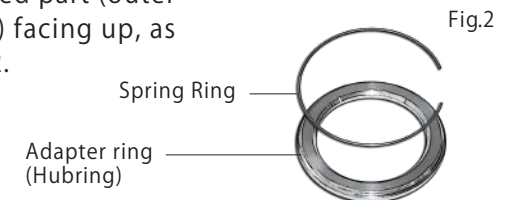
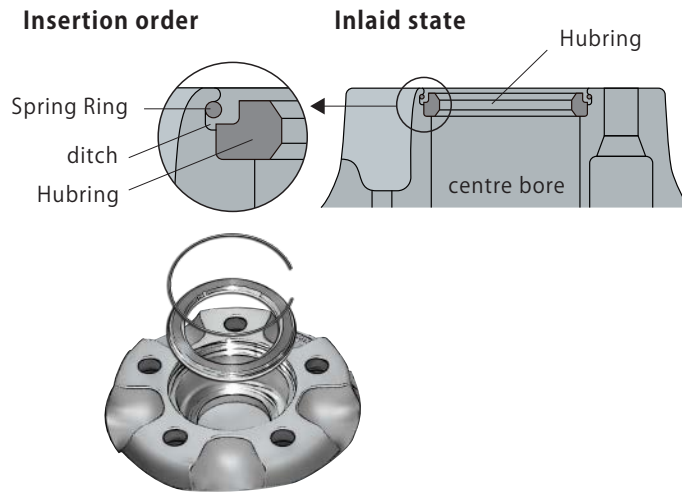


Fig.2

2 Precaution when installing wheels

- ③ Next, fit the supplied spring ring deep into the groove in the mounting hub section to secure the hub ring.



ALERT

- ④ Do not fit the hub ring with the stepped part (outer circumference) downwards. If fitted in this way, the hub ring cannot be secured by the spring ring, which is very dangerous.



ALERT

- ⑤ Do not fit the spring ring into the mounting hub first and then fit the hub ring. If fitted in this way, the spring ring will not secure the hub ring and the hub ring will protrude from the wheel surface, which is very dangerous.

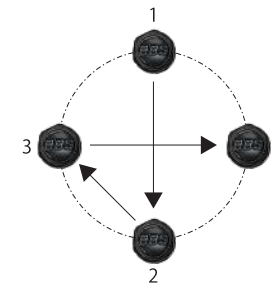


ALERT

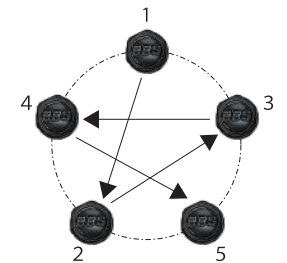
- 1 Clean the hub surface (mounting surface) of the wheel and the wheel mounting surface of the axle. Never use oil, lubricant, etc. on the wheel mounting bolts and nuts. Dirt, foreign matter or oil on the mounting area may cause the wheel to loosen.

ALERT

- 2 Tighten the wheel nuts or bolts gradually in the order shown in the diagram below.



Wheel mounting holes: 4 holes
Tightening order for nuts and bolts

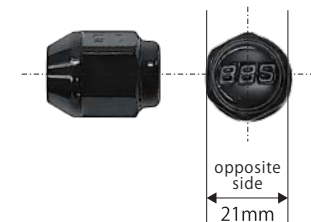


Wheel mounting holes: 5 holes
Tightening sequence for nuts and bolts

Tightening torques must be in accordance with the following or vehicle regulations.

M12 bolt/nut for passenger cars	110N · m
M14 bolt/nut for passenger cars	130N · m
M14 bolt and nut for SUV vehicles	150N · m

The hexagonal head diagonal dimension of the nuts supplied with BBS wheels is 21 mm. Please note that the diagonal dimension of the genuine nut for Subaru, Honda and Suzuki vehicles is mainly 19 mm, so the on-board tools supplied as genuine accessories for these vehicles cannot be used with BBS wheel nuts.



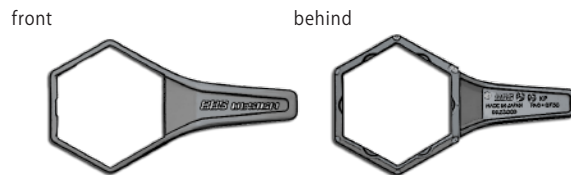
CAUTION

3 Installing and removing the centre cap (SUPER-RS)
 To install the hexagonal centre cap on the wheel, insert the threaded part of the centre cap into the centre hole thread on the wheel and turn it in a clockwise (right) direction. Finally, align the special spanner with the hexagonal cap and turn it in a clockwise (right) direction to tighten.
 The tightening torque at this point is shown below.

Tightening torque for centre cap	approx. 25N•m
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Note that this torque corresponds to turning the special spanner with a force of approx. 200 N applied to the handle of the special spanner.
 When removing the centre cap, turn the special spanner in a counterclockwise (left) direction.

Dedicated spanner



3 Precautions after wheel installation

ALERT

1 After mounting on the vehicle, check that the wheels are not in contact with the vehicle body, suspension components, etc. Check the front wheels by turning the steering wheel fully to the left and right.

ALERT

2 It is dangerous and prohibited by law for tyres and wheels to protrude from the vehicle body.

4 Precautions for wheel use

ALERT

1 After the initial installation or after changing positions, the mounting nuts and bolts tend to loosen, so retighten them to the recommended torque after approximately 100 km of driving. Also check for looseness during daily inspections.

CAUTION

2 When using a spare tyre, use the vehicle manufacturer's genuine nuts or bolts. Do not use genuine BBS nuts and bolts to spare tyres installed other than BBS forged wheel, as they will not fit and cannot be tightened or will be insufficiently tightened, causing an accident.

ALERT

3 Two-piece assembled wheels are tightened using genuine BBS rim bolts to the manufacturer's specified torque.

Never use ordinary rim bolts as they are not strong enough and lack durability. Also, never retighten or loosen the bolts, as this will lead to deterioration of the bolts and loosening of the bond. If rim bolts become loose, discontinue use immediately and consult the dealer.



CAUTION

4 Do not use metal tyre chains as they will damage the wheels.

5 Take care when riding up onto kerbs or uneven parts of the road, as this can easily damage the wheels.

5 Magnesium forged wheels (warnings and precautions).



6 Aluminium alloys are prone to corrosion when exposed to salt and anti-freezing agents, so wash with water after riding by the sea, on snowy or rough roads.

7 Use a neutral detergent for cleaning. When using commercially available wheel cleaners, check the instructions carefully and do not use those that are acidic or alkaline or contain abrasive materials. Also, do not use wheel cleaners for plating or iron powder removers.

8 Avoid washing the wheels with high-speed car wash machines, etc., as they are likely to scratch the wheels.



9 Never attempt to repair or modify deformed or cracked wheels by a repairer or yourself. If deformation or cracking occurs, stop using the wheel immediately and be sure to consult your dealer.



10 If abnormal vibrations or noises are detected while driving, immediately stop the vehicle in a safe place and check for loose nuts, deformed wheels, tyre condition, etc.



11 Always check the tyre pressure before riding.



12 When replacing tyres, check that the air valve has not deteriorated.

Magnesium alloys are extremely light, with a specific gravity of approximately two-thirds that of aluminium alloys, and while they are an excellent material with high strength, they are more susceptible to corrosion than aluminium alloys.

BBS magnesium forged wheels are treated with a special corrosion-resistant coating, so they have the same coating performance as aluminium forged wheels, but if the coating is damaged or otherwise destroyed and the metal surface is exposed, corrosion will progress faster than with aluminium forged wheels.

Before using this product, in addition to the warnings and cautions (P4-P11) in this manual, please also follow the information below to ensure correct use.



1 Air valve installation

Use the genuine BBS aluminium alloy air valve supplied with the wheel. Use of other air valves may cause wheel corrosion and is dangerous.

For the tightening torque of the genuine BBS aluminium alloy air valve, refer to section 1-3 of this manual.



2 When cleaning the wheels, wash them with fresh water using a soft cloth rag and then wipe them with a dry cloth. The use of brushes, especially with high-speed washing machines, can damage the corrosion-resistant coating on the wheel surface and is dangerous.



3 Wash the wheels at least once a month and inspect the entire wheel for scratches and abnormalities. If scratches or abnormalities are detected, be sure to consult your dealer.

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