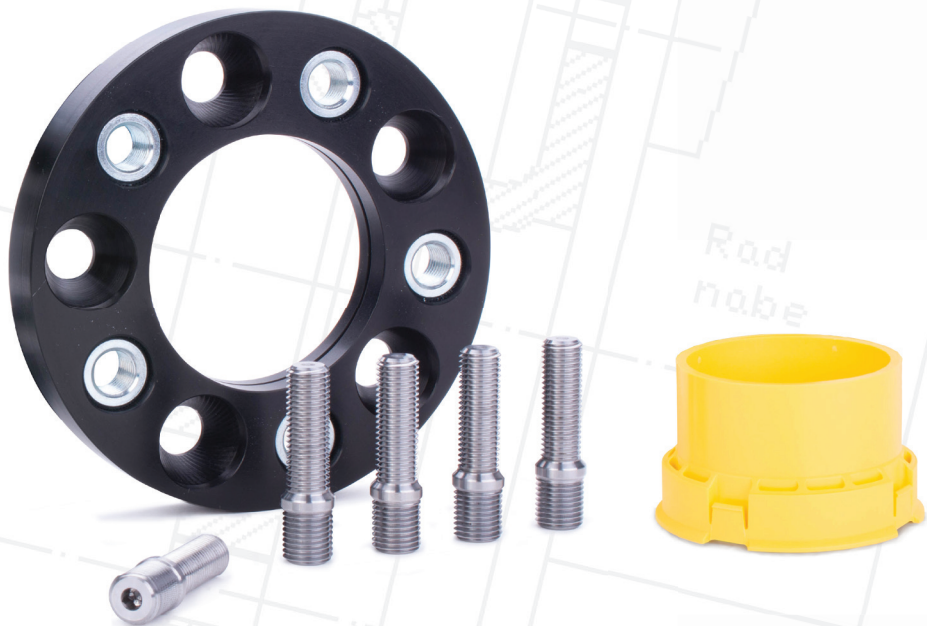


# INSTALLATION GUIDE WHEEL SPACERS



**ST**<sup>®</sup>  
SUSPENSIONS

SYSTEM **AZ**X

## System AZX

25 / 30 or 35 mm per wheel

Bolt on system with patented center adapters for double centering for cars with wheel bolts AND threaded wheel studs. The double centering system guarantees an optimal fitment. Different center bores can be covered with the interchangeable center adapters. The wheel spacer is mounted to the wheel hub with the added mounting hardware. For cars with threaded wheel studs the ST threaded studs are used to mount the wheel to the wheel spacer. For cars with wheel bolts M14x1.5, bolts are used to mount the wheel to the wheel spacer. Additionally, a conversion from wheel bolts to threaded wheel studs is possible due to the ST threaded studs. Fitting wheel bolts or threaded studs and fitting center adapters are required (Please order separately).

Box Contents:

2 wheel spacers system AZX

Sold Separately:

2 center adapters

wheel mounting hardware





## **ATTENTION!**

### **Range of use**

Before installation please check if the wheel spacers are approved for the intended application. If the vehicle is not listed in the parts approval the installation must be done by an expert. The individual approval must be done by a state-approved expert in accordance to §21 in connection with §19.2 of the road traffic licensing authority (StVZO).

### **Parts Approval**

No parts approvals are attached to the box. Certificates can be downloaded on our website.

## **1. Remove Wheel**

Remove the wheel as described by vehicle manufacturer.



## 2. Clean Wheel hub

Clean the wheel hub carefully with a steel brush if necessary.



## 3. Assemble Adapter

Put the center adapter into the wheel spacer. The adapter is put into the spacer disc on the side with a bevel. The collar of the center adapter should protrude through the spacer disc enough for centering the wheel. See page 15 Abb. 1 and 2.





#### 4. Check contact surface

Check if the wheel spacer fits on the wheel hub and to the rim without any play or float and that the hole pattern fits properly.



INFO:

STEP 1 TO 4 ARE THE SAME FOR ALL INSTALLATION TYPES OF SYSTEM AZX!



## ASSEMBLY FOR CARS WITH WHEEL BOLTS

### ATTENTION!

Before installation please check that the original bolts of your rim or the added M14x1.5 bolts are not too long. The bolts are not supposed to protrude beyond the wheel spacer disc when mounting the wheel to the disc. See page 15 Abb. 3 and 4.

### 5. Mount Wheel spacer

Mount wheel spacer with the added wheel bolts using a torque wrench. (torque to spec as described by the vehicle manufacturer).

### ATTENTION!

Engage the handbrake while mounting the wheel spacers in order to relieve the stress on the transmission. **Never use an impact gun for mounting the wheel spacers!**



## 6. Mount Wheel

Mount the wheel with the original wheel bolts (if stock is M14x1.5) or the added M14x1.5 bolts as described by the vehicle manufacturer. Please consider the minimum thread engagement. See page 14.

## ASSEMBLY FOR CARS WITH WHEEL STUDS

### ATTENTION!

If the original threaded studs protrude through the wheel spacer, rims with recessed holes must be used. See page 15 Abb. 5 and 6.

### 5. Mount threaded Bolts into Wheel spacer

Screw in the threaded bolts into the wheel spacer using a 5mm allen wrench. Threaded bolts must be tightened with 15 Nm from the back of the spacer disc.



### 6. Mount Wheel spacer

Mount wheel spacer with the added nuts using a torque wrench (torque to spec as described by the vehicle manufacturer).





### **ATTENTION!**

Engage the handbrake while mounting the wheel spacers in order to relieve the stress on the transmission. **Never use an impact gun for mounting the wheel spacers!**

### **7. Mount Wheel**

Mount the wheel with the original wheel nuts as described by the vehicle manufacturer. Please consider the minimum thread engagement. See page 14.



## CONVERSION FROM WHEEL BOLTS TO WHEEL STUDS

### 5. Mount threaded Bolts into Wheel space

Screw in the threaded bolts into the wheel spacer using a 5mm allen wrench. Threaded bolts must be tightened with 15 Nm from the back of the spacer disc.

### 6. Mount Wheel spacer

Mount wheel spacer with the added wheel bolts using a torque wrench. (torque to spec as described by the vehicle manufacturer).

### ATTENTION!

Engage the handbrake while mounting the wheel spacers in order to relieve the stress on the transmission. **Never use an impact gun for mounting the wheel spacers!**



## 7. Mount Wheel

Mount the wheel with the ST wheel nuts as described by the vehicle manufacturer. Please consider the minimum thread engagement. See page 14.



## CONVERSION FROM WHEEL STUDS TO WHEEL BOLTS

### ATTENTION!

Before installation please check that the added M14x1.5 bolts are not too long. The bolts are not supposed to protrude beyond the wheel spacer disc when mounting the wheel to the disc. See page 15 Abb. 3 and 4.

### ATTENTION!

If the original threaded studs protrude through the wheel spacer, rims with recessed holes must be used. See page 15 Abb. 5 and 6.

## 5. Mount Wheel spacer

Mount wheel spacer with the added nuts using a torque wrench. (torque to spec as described by the vehicle manufacturer).



### **ATTENTION!**

Engage the handbrake while mounting the wheel spacers in order to relieve the stress on the transmission. **Never use an impact gun for mounting the wheel spacers!**

### **6. Mount Wheel**

Mount the wheel with the added M14x1.5 bolts as described by the vehicle manufacturer. Please consider the minimum thread engagement. See page 14.

**ATTENTION!**

Use torque spec for the rim as described by the vehicle manufacturer or parts approval of the rim manufacturer. **Never use an impact gun!**

**Minimum thread engagement for wheel bolts and wheel nuts**

M12 x 1.25 at least 8.0 turns

M12 x 1.50 at least 6.5 turns

M12 x 1.75 at least 6.5 turns

M14 x 1.25 at least 9.0 turns

M14 x 1.50 at least 7.5 turns

1/2" at least 8.0 turns

## Further Information

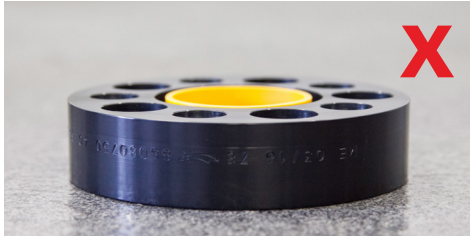


Abb. 1



Abb. 2

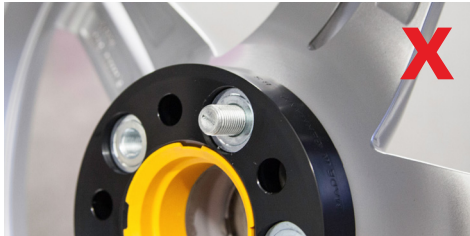


Abb. 3



Abb. 4



Abb. 5



Abb. 6



Rad  
nabe



A1



A2



AZX



D1



D2



D3



DZ



DZX

Learn more about wheel spacers on our website.