



# WS ROLLER-SPINNER INSTALLATION GUIDE



**Wieländer+Schill**  
Professionelle Karosserie-Spezialwerkzeuge

# WS ROLLER-SPINNER INSTALLATION GUIDELINES



## PRODUCT DESCRIPTION:

Wheel Size: 22" x 2.5"  
Weight: 11 kg / 24 lbs.  
Maximum Speed: 5 mph / 8 km/h  
Max Load Recommended: 2200 lbs. / 1050  
Warranty: 2 years

### WS ROLLER -SPINNER 4/5

Center Bore 74.1  
Bolt PCD sizes from 4x 98 to 4x 115  
& 5 Bolt PCD sizes from 5 x 98 to 5 x 130

### WS ROLLER-SPINNER 5/6

Center Bore 87.1  
Bolt PCD sizes from 5x120 to 5 x 139.7  
& Bolt PCD sizes from 6 x 114.3 to 6 x 139.7

### BRAKE ROTOR SCREWS:

If necessary, remove the brake rotor screw to ensure a flat mounting contact with the wheel and hub is achieved.

### LUG BOLTS OR NUTS:

The center of the WS Roller is designed to be used with conical bolts or nuts.



CONE SEAT  
BOLT

CONE SEAT  
LUG NUT

### PLEASE NOTE:

Wheel bolts or nuts will vary by manufacturer, always make sure the length of the bolt is correct. (Max length is 30 mm)

**ATTENTION:** When utilizing hydraulic floor jacks to jack up a low-profile sports car with low profile tires to install the WS Roller, it is possible to have an install issue. A ramp or small piece of wood is needed to raise the vehicle high enough for the jack to slide underneath the proper jack points for the vehicle.

# HOW TO INSTALL YOUR WS ROLLER



## REMOVE EXISTING WHEEL BOLTS OR NUTS

Safely lift the vehicle using the assigned jacking points that can be found in the vehicles owner's manual. Use a vehicle jack or lift and remove the OEM bolts or nuts so you can take the wheel off the vehicle.

## ALIGN THE WS ROLLER STEEL CENTER TO THE VEHICLE HUB

Align the WS Roller steel center with the vehicle hub. A hub ring can be used to make alignment easier, use the correct ring size and place it in the center bore prior to aligning. Ensure the correct size bolt pattern is utilized so the Roller is properly installed on the hub.



## PLACING THE BOLTS OR NUTS

Using OEM or aftermarket cone seated bolts or nuts, fasten the WS Roller steel center onto the vehicle hub. The cone seated bolts or nuts prevents damage to the EZ Roller and allows a safely torqued wheel. Please note: wheel bolts or nuts will vary by manufacturer, always check that the length of the bolts is correct.

## BOLTS TIGHTENING

Once the WS Roller steel center is in the correct position and flush to the hub, then torque the bolts or nuts, using 65N/m | 48ft/lb. as the torque setting. When the WS Roller is securely fastened using the correct torque settings, check the Roller steel center is flush against the vehicle hub and rotate by hand to ensure it moves freely and without any play in the movement. This will allow lowering the vehicle to the ground safely.

Do not over tighten the wheel bolts or nuts.

**WARNING:** Exceeding the maximum load rating, driving above the permitted speed limit or incorrect mounting, could lead to the WS Roller-Spinner intended purpose failure and may result in serious damage or injury.



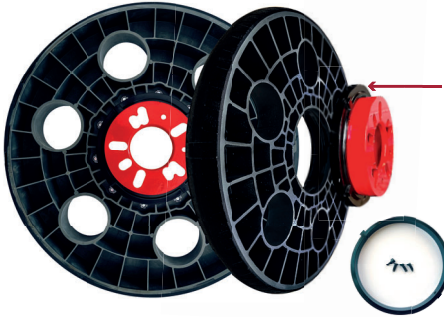
### PRODUCT DESCRIPTION

#### THE WS ROLLER-SPINNER 4/5

Bolt PCD sizes from 4 x 98 to 4 x 115  
Bolt PCD sizes from 5 x 98 to 5 x 130  
item No. HV 150

#### THE WS ROLLER-SPINNER 5/6

Bolt PCD sizes from 5 x 120 to 5 x 139.7  
Bolt PCD sizes from 6 x 114.3 to 6 x 139.7  
item No. HV 152



#### SPINNER RING

The assembly consists of 1 Ring that is installed on the steel center of the WS Roller's internal side.

There are 4 pre-drilled holes in the steel center for the Spinner ring mounting bolts (x4) to be secured. Once secured, the Spinner Ring will serve as a flange to keep the wheel stable during motion.



#### SOCKET SIZE 9/16", DRIVE 3/8"

This type of hex socket makes it easier to remove the bolts in the steel center and to install the bolts in the spinner ring.

#### THE WS ROLLER

Arrives packaged as a complete assembly. To transform the Roller to a Spinner, simply remove the 10 hex bolts and nuts that secures the steel center to the thermoplastic Roller.

Once those bolts are removed, it becomes a Spinner Wheel. The user should no longer use as a motorized application.

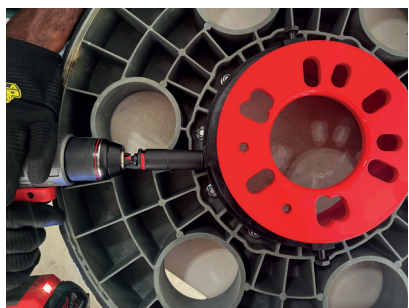
**WARNING:** For safety reasons, keep speed below 2 mph by manually pushing the vehicle or use with a motorized pusher or with chains on a tow vehicle. Please do not drag the vehicle laterally. When using always chock all 4 wheels, as the spinner, once installed, bypasses the parking brake and could roll away and cause damage to the vehicle.

# HOW TO TRANSFORM THE WS ROLLER INTO A SPINNER



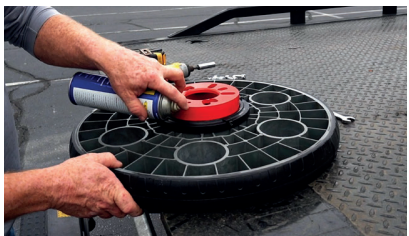
## REMOVE EXISTING BOLTS

Remove the 10 (14mm) hex bolts which secure the thermoplastic wheel to the steel center by firmly holding the nut (13mm) with a socket wrench or other similar tools while using the impact gun with a 14mm socket.



## INSTALL THE SPINNER RING

Insert the Spinner ring from the rear of the steel center as a sleeve, until the 4 holes are aligned with the 4 pre-drilled holes. Insert and tighten the 10mm bolts (included) using hand or electric tools with low torque settings.



## LUBRICATE

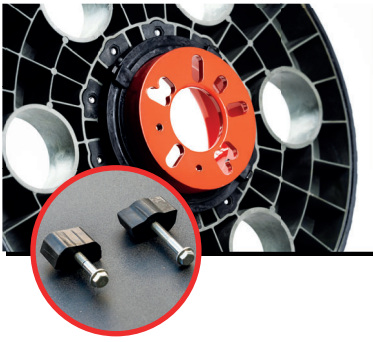
To extend the life of the WS Roller-Spinner, lubricate the internal center areas by using a silicone free lubricant. (Important for collision shops)



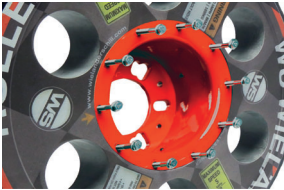
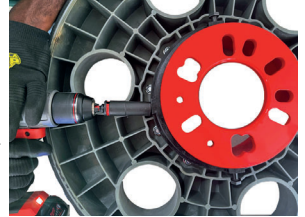
The **WS Roller-Spinner** is now ready for use as a **Spinner Wheel**

**WARNING:** Exceeding the maximum load rating, driving above the permitted speed limit or incorrect mounting could lead to the WS Roller intended purpose failure and may result in serious damage or injury.

## INSTALLING THE WEDGE NUTS ON THE WS ROLLER-SPINNER



- 1 Remove the spinner ring by removing the 4 bolts that secure the ring to the wheel. Use a 14 mm socket.



- 2 Remove the 10 Hex bolts that secure the steel center hub to the wheel frame. Use a 12 mm socket to remove the front hex bolts and simultaneously use a wrench, pliers, or a socket to hold the nuts on the backside while removing the front side bolts.

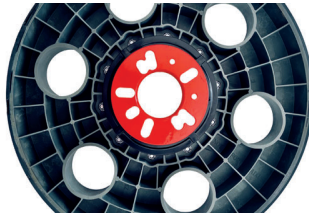


- 3 Insert the 12 wedge nuts into the cavities on the backside where the nuts were just removed.



- 4 Tap firmly in place inside the cavity with a rubber hammer. Ensure they have gone in as far as possible, and the wedge nuts should be sitting flat in the cavity.

- 5 Re-install the new flange bolts that came with the wedge nuts. Torque to 15-18 lb. max setting.



**WARNING** Over torquing could strip the nut that is embedded in the wedge nut. If the nut gets stripped, use a bolt from the side with a rubber hammer and gently tap it out and replace.

# TECH TIPS

Be aware that Mercedes-Benz, and a few other European manufacturers, have longer factory lug bolts that will not work with our wheel. Usually, Mercedes-Benz dealerships and the shops that work on them, have shorter bolts for other brands. It's been our experience, our 14 x 1.5 mm tuner bolts fit these vehicles with the Roller and Roller Spinner.

kg. Porsche vehicles mostly use the 5 x 130 bolt pattern. Our 4/5 size has the 5 x 130 bolt pattern built into it, however the OEM bolts are too large for the 4/5 wheel, but work perfect on our 5/6 wheels.

We recommend thin-walled sockets when installing nuts and bolts.



Some low-profile vehicles may require a ramp (available as an accessory) to raise the vehicle high enough to place the hydraulic jack underneath the jack points.

The WS Roller and the WS Roller-Spinner product line is new to the market. It's our experience thus far, that our wheel fits on 98% of the vehicles our customer will encounter, and the OEM nuts and bolts can be used on most all of them.

The reason we quote 98%, is to leave us room to discover how to make the 2% work. On some vehicles, there may be a need to use aftermarket nuts or bolts. On some vehicles, the center hub of the 4/5 size may be too small and the solution is to use our 5/6 size.

As we learn, we share these discoveries with our users. There aren't many, but should you learn of a problem associated with fitment, nuts or bolts, hub too large or too small, please let us know as soon as possible.

## MAINTENANCE GUIDE

- Store in areas that do not exceed 120-degree Fahrenheit or -20 degrees Fahrenheit
- Keep wheel and steel center clean
- Keep the WS Roller-Spinner lubricated before each use

## WARRANTY TERMS

The Roller product carries a 2-year and from delivery date. The warranty is void as a result of any product misuse such as driving above the permitted use at 5 mph or not mounted correctly on vehicles. Proof of purchase will be required for warranty claim.

The Spinner ring carries a 1-year warranty. The warranty will be voided should the vehicle be driven when in the Spinner mode or if dragged laterally.

The intended purpose of the WS Roller is to slowly move vehicles around the workshop or lot. "Not for road use"

All related accessories or other items not manufactured or supplied by the seller will be excluded from any warranty.

All shipping costs due to any warranty claims will be the full responsibility of the buyer.



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