

# PSD DESIGNS

## Titanium Wheel Hardware: Fitment

### Required tools:-

5mm Hex Bit socket (1/2" Drive)

1/2" Drive Socket Wrench

1/2" Drive Calibrated Torque Wrench/Wrenches

1/2 " Drive 17/19mm Socket as required

Floor/Trolley Jack and Alex Stands

Loctite Medium grade thread locker

Graphite Anti-Seize paste and applicator brush.



**Step 1 – Safely jack up the car and secure on axle stands according to the vehicle manufacturer's instructions.**

**Step 2 – Remove the current wheel bolts and wheels (check for damage to the vehicles hubs) If there is any damage do not install your Titanium Stud Conversion. Have the hub replaced or repaired prior to installation.**

**Step 3 – Clean the hub contact area and threaded holes of all debris.**

**Step 4 – Apply a few drops of thread locker to the short threaded portion of your titanium stud. Do not apply too much, a few drops is typically more than enough. Rotate the stud to allow the thread locker to coat the threads.**



**Step 5 – Insert the stud into the hub, locate the threads and loosely tighten by hand. (be careful not to cross thread the stud into the hub)**

**Step 6 – Using a 5mm hex bit socket, thread the stud into the hub and torque to 25nm (20ft/lbs) with a calibrated torque wrench prior to installing wheels or spacers.**

**Step 7 – Repeat steps 4 – 6 on the remaining studs.**

**Step 8 – After all studs are correctly torqued, install spacers / wheels (refer to step 9)**

**Step 9 – Apply a small “dab” of anti-seize graphite paste to the internal threads of the titanium wheel nuts and secure by hand tightening the titanium nuts onto the studs. **\*DO NOT USE IMPACT GUNS ON TITANIUM NUTS.** Use of an impact gun will void your warranty. Titanium nuts should be installed by hand tools only.**

**Step 10 – Torque the titanium nuts to manufacturers factory specs (M12 kits typically 120nm {85-90ft/lbs} M14 kits 140nm {100-105ft/lbs}) This must be done with the tyres touching the ground but with the weight of the car still supported by a jack.**

**Step 11 – Lower the car of the jacks/Stand and perform a test drive.**

**Step 12 – After a few hundred miles of normal use, check the torque of the titanium wheel nuts to ensure they are still correctly torqued to factory specs as detailed in Step 10.**

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