SPEED UTV DESIGN PRESENTATION: 57

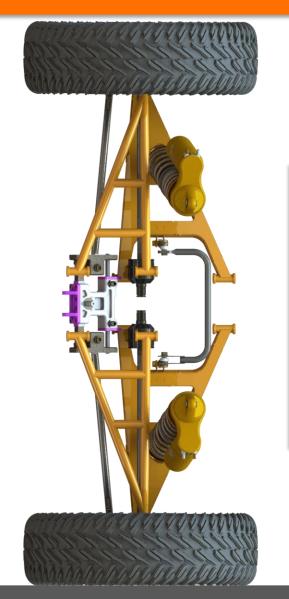
ROBBY GORDON, TODD ROMANO

DANIEL GRANGER

5/5/21

SPEED UTV – WHEEL FITMENT





WHEEL AND TIRE PACKAGING HAS BEEN A FREQUENTLY ASKED QUESTION.

IN THIS PRESENTATION WE WILL ADRESS THE FITMENT LIMITS AND EFFECTS OF DIFFERENT WHEEL AND TIRE PACAKAGES



HOW TO MEASURE A WHEEL



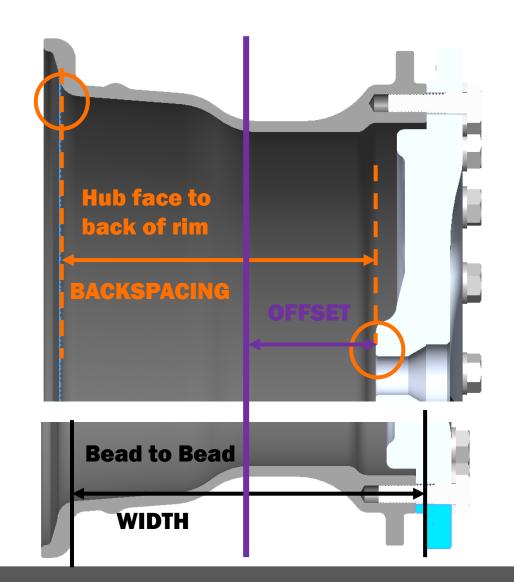
There are 3 key measurements when sizing the width of a wheel.

Width, Backspacing, & Offset

Wheel width: measured from bead seat to bead seat.

Offset: measured from the wheel centerline to the hub mounting face.

Backspacing: measured from the hub mounting face to the inside edge of the rim.



WHEEL WIDTHS





Production



Width: 5.38"

Offset: +45.7mm

Max Front Backspacing



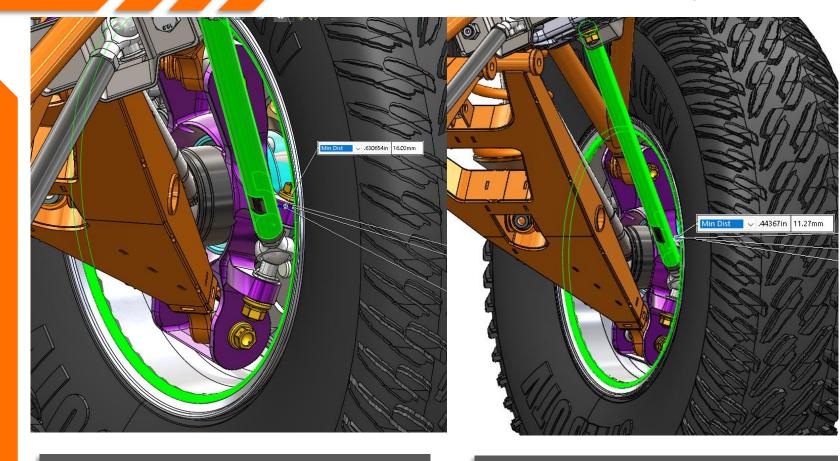
Note: the Offset is tied to the wheel width and has an effect on steering geometry. **Backspacing is the most critical** when looking at packaging



CLEARANCE TO TIEROD

On the production wheel we have over 0.630" of clearance to the tiered at full droop & full lock.

We do not recommend going less than 0.400" of clearance.



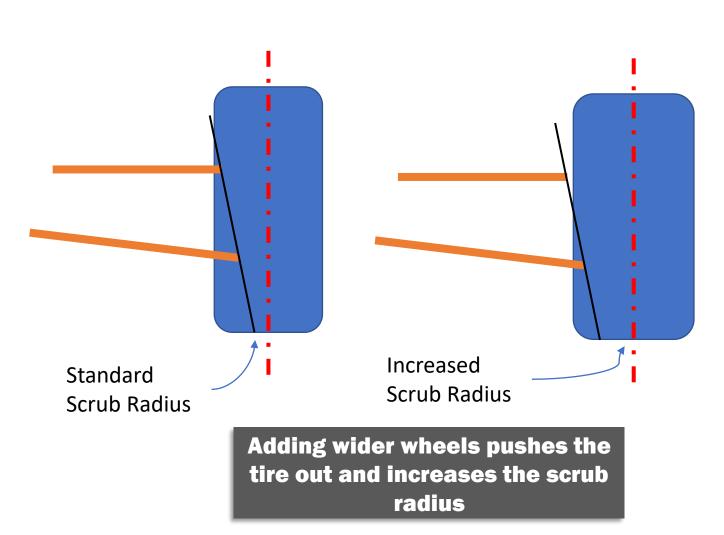
Rim to tie rod clearance: 0.630" On 5.3" rim Rim to tie rod clearance: 0.145'' On 5.625'' rim

Steering Geometry





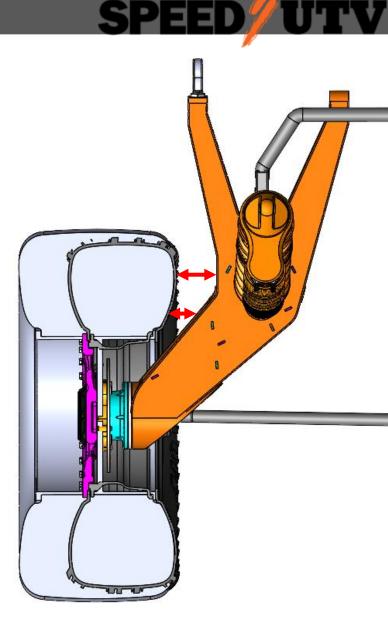
Increasing the scrub radius beyond factory specifications will result in increased steering load and bearing wear.



REAR WHEEL FITMENT

- In the rear the main thing to check for in clearance to the side of the trailing arm.
- The production offset is as tight as we recommend due to tire defection.
- This means any increase in tire/wheel width needs to push outwards and increase the width of the car.

Production wheel and tire vs KMC 15x10 Zero offset & 33 X 14" Paddle tires



REAR WHEEL FITMENT





SandSlinger rear paddle and front steering tire, The **Speed Specific 33-inch-tall** tire comes mounted on the new KMC Cage Beadlock wheel. The rear wheel and tire is much wider than stock and will make your 77inch-wide Speed UTV approximately 81 inches wide in the rear.





KMC 15x6 +36mm offset & 33 X 11" Steering tires

KMC 15x10 Zero offset & 33 X 14" Paddle tires

SPEED UTV – 5 POINT HARNESS





5 point harnesses are standard in all Speed UTVs

We value safety above all else

SPEED UTV – PLASTICS



Plastic are popping out of molds







SPEED UTV - PARTS







Ratchet Shifter

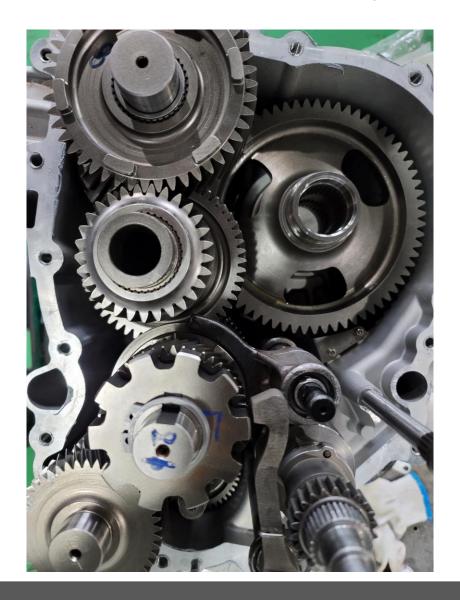
SPEED UTV – Gearbox







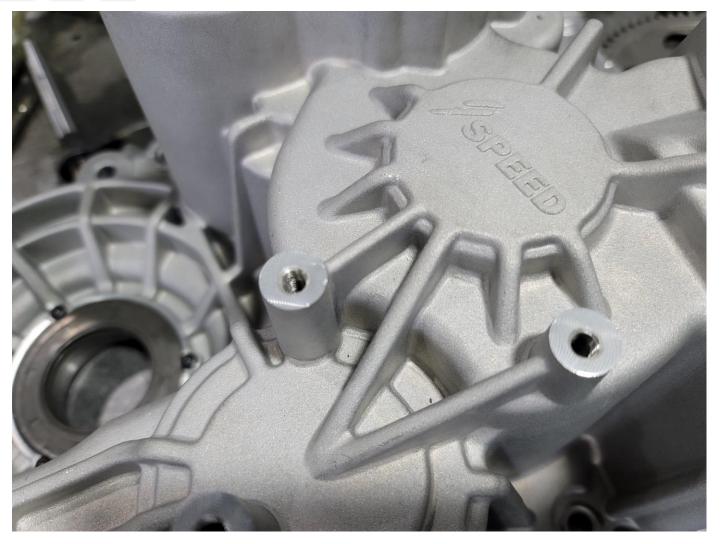
Gears



SPEED UTV – Gearbox



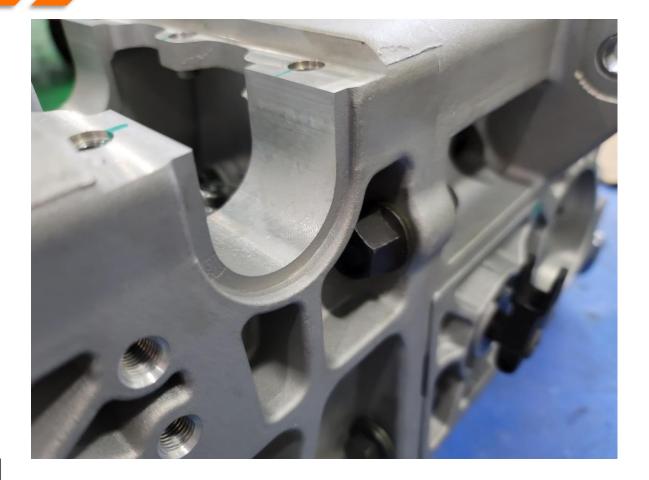




Casting

SPEED UTV – Bulkhead





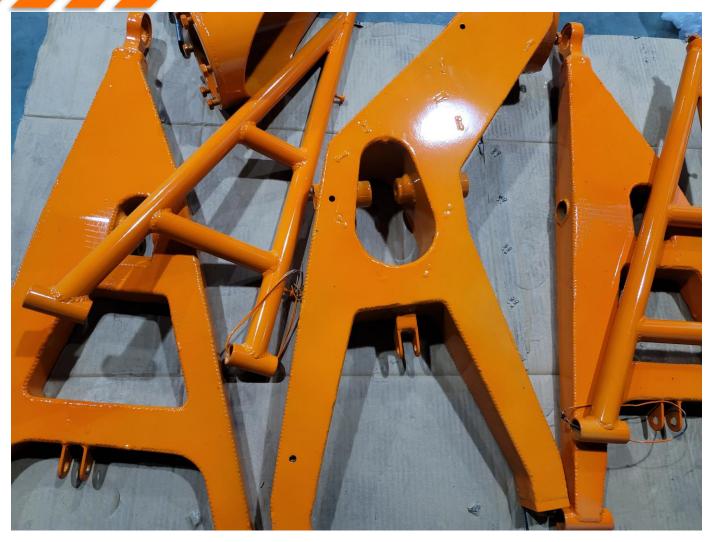
Sway bar integration

SPEED UTV – SUSPENSION









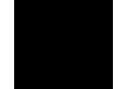
SPEED UTV - TO THE MOON















Call in with your questions:

704-949-1255



Lucky Caller wins a

SPEED UTV - FAMILY



