

## MotoSmartLaser/ATV User manual

### THE SET INCLUDES:

- Laser module
- Protractor
- Mirror module
- Tape measure
- Width measuring scale
- 2 pcs. threaded adapter M18
- 2 pcs. threaded adapter M20
- 4 pcs. measuring rod
- 4 pcs. magnet 25mmx10mm
- 3 pcs. spacer: 25/50/75 mm
- Suitcase

### OPTIONAL ACCESSORIES:

- Threaded adapter M16

### USER MANUAL

### PREPARATIONS

**0** Wash ATV and check/adjust tire pressure

**1** Park in a flat, easily accessible service area.

**2** To install the measuring adapters, check the ends of the axle stubs! If it's just dirty, clean it with a wire brush. If it is so corroded that it is geometrically inaccurate, then use the threaded adapter! Check the bearing surface of the screw! Tighten the adapter to the torque specified in the service manual!



# PC use for motorcycle diagnostic

**3** Put a genotherm on the ground in front of the front wheels! Push the front axle onto the foil. On the genotherm, the front wheels adjust without tension.



**4** Set the steering wheel to the middle position! Use a tape measure, you can measure to any symmetrical point.

**5** Place the measuring rods in the adapters and fix them with the plastic screw. Check that the dipsticks do not wobble on the axle stubs!

**6** If the wheel camber is specified in the geometry data and is adjustable, measure the value with the protractor and set it as described in the service manual.



- 7 Put the width measuring scale on the front axle, if necessary, use a widening tube for lateral positioning.
- 8 Put the laser module on the rear axle and light to the scale.
- 9 Make sure that the adapters are installed using the same method / magnet or thread / on both sides.



**YOU SHOULD GET THE SAME VALUE ON BOTH SIDES. IF THE VALUES DIFFER,  
CHECK THE REAR SUSPENSION!**

**10** You can start on any side of the vehicle. Place the laser module on the front axle and the mirror module on the rear axle

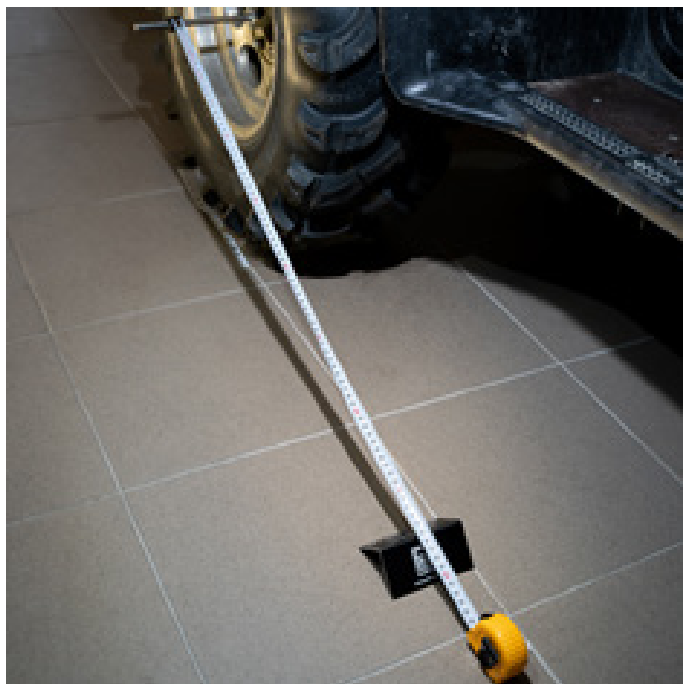


**11** Light to the mirror console. Reflect the light back onto the scale of the laser module. Find the center of the scale with the adjustment screw of the toe connecting rod. Then the front wheel runs "straight".



# PC use for motorcycle diagnostic

**12** Place the measuring scale on the ground 75 cm from the front axle. Light to the scale and move it until you reach the "0" point.



**13** You can then adjust the geometry by adjusting the length of the connecting rod. If the light travels inwards from point "0", you measure spread, if it travels outwards, you measure cohesion.



## RECOMMENDED VALUES:

For touring quads and work ATV-s UTV-s, we recommend 1.50 +/- 0.5 degrees TOE OUT to achieve good stability.

For sport quads, we recommend 1.5 +/- 0.5 degrees TOE IN to achieve good handling.

**DO THE SETTING ON THE OTHER SIDE AS WELL!**

**ADDITIONAL DATA: MEASURE THE WHEELBASE.**