

### Wear of the actuator and mechanical components of the wastegate flap

#### Introduction:

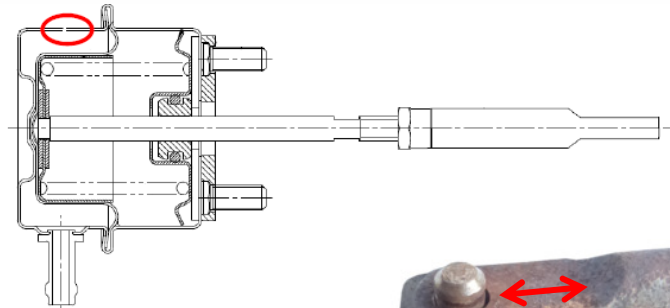
The manufacturer of the turbocharger notes increased wear phenomena on the joint head of the actuator and the joint pin, wastegate arm and wastegate arm bushing on the turbine housing. The components comply with all the general technical standards. The diaphragm in the control socket also wears prematurely and can have leaks

#### Causes:

The engine control unit and the periphery of the pressure can control actuates with excessive and superfluous movements. The vehicle manufacturer is now aware of this fact. A 100% remedy is unfortunately not known at the moment.

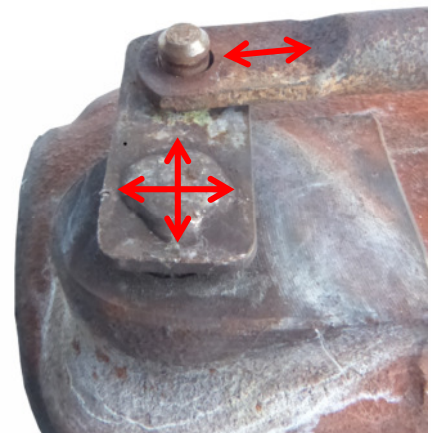
#### Testing the membrane function:

For a leakage test of the diaphragm in the actuator, the calibrated venting hole must be closed at the actuator housing. This venting hole serves to optimize the controllability of the actuator.



#### Testing of mechanical components:

Joint and wastegate bearing must be checked for mechanical wear. For this purpose, the control rod can be dismantled after the removal of the lock washer. For an acceptable control behavior of the wastegate flap, the clearance of the bearing shaft and joint head should be less than 0.15 mm.



#### Instructions:

When renewing the turbocharger, the engine control unit may need updating. This must be clarified in each individual case with the vehicle manufacturer.

#### Warranty:

The turbocharger manufacturer excludes wear damage on the control box and all mechanical components of the wastegate flap from the warranty.

**Vehicle Manufacturer:** Mercedes

**Vehicle:** buses with gas engine

**Engine code:** OM 447 LAG

**Validity:** This service information is valid for renewing the turbocharger with

**BTS reference:** T914915

**OE-no.:** A4470960099, A447096009980, A4470960399, A447096039980

**Manufacturer part no.:** 707516-5001S, 707516-5008S

Please note: OE-references are only for means of comparison. The content of this Service Information is non-binding and is only for informational purposes. The manufacturer specifications have to be adhered to.