

CIMA & GEARFOX TRANSAXLES WARRANTY CONDITIONS.

Transmission Specifications

Max peak input torque - 900 Nm - Max output peak torque - 9,000 Nm

H pattern shifting or manual sequential

Max input r.p.m. 7,500 (anti clock wise rotation.) - 10,000 r.p.m. with nitridised pump

Full synchronization for all gears except reverse

Possibility for conversion to TSR specifications.

Input shaft spline and length to suit application.

6 forward speed plus 1 reverse.

Weight estimated at approx 88kg .

Forced lubrication by a GEROTOR pump with exit for thermal exchange driven by the primary shaft.

"Torque sensing" type differential, soft racing unit.

Other differentials might be installed if you request but if so do we will re-issue this contract.

Optional Extras include Oil Cooling / Heat Exchanger

Warranty

A nominal warranty of 15 months is supplied with each transmission. It is possible to extend this to 27 months at time of transmission order/purchase by payment of a further € 750 (Euros).

Technical data and operating mode

6 forward + 1 reverse speed with following ratios:

CLOSE RATIO 1st - 2.875 - 2nd - 1.773 - 3rd - 1.267 - 4th - 1.000 - 5th - 0.833 - 6th - 0.711 or 0.733 - Reverse - 3.00 - Rear Axle / Final Drive - To be chosen

- Reverse can be synchronised.

- The maximum inertia to be synchronised is 130 Kg x cm². Avoid any clutch drag.

- The maximum peak input torque is 900 Nm .The maximum spinning torque is 7,000 Nm

- The best operation of the transmission is between 60 and 90 degrees Celsius and after 1.500 Kms. The shifting performances at delivery are reaching 80% of their capabilities.

- The maximum peak temperature is 120 degrees Celsius.

- The lubricant must meet GL5 specifications with 20 cSt at 100 degrees Celsius (for extremely cold countries 14 cSt at 100 degrees C are permitted) are the general oil specifications if GearFox GFX is not used for this application. Any failure due to insufficient lubrication by using other products is not considered claimable as a warranty. A sample of oil shall be produced with the failed part at any warranty claim.
- The lubricant must be replaced every 15.000 kilometres or every year whichever comes first.
- Min oil flow at 80 degrees C and 6.000 RPM is 15lt x min. Please use appropriate piping size for the cooling system. The minimum oil flow area shall be 80 mm².
- In the case of a rear tyre puncture or failure the vehicle must be stopped immediately to avoid any damage to the transmission. The concept of the lubrication system does not allow for the vehicle to be towed or to drive down hill in neutral with the engine off.
- Recommended gear lever ratio is about 1:4.5 for H gate, 1: 2,5-3.0 for S shifting, and the recommended size for the engagement cable is about for forces of 120 Kgs. A floating/elastic holder for the cable sleeve is warmly recommended on the gearbox side in order to avoid the double bump feeling on the lever.

Gearbox application, installation and relative interfacement must be checked and agreed by GEARFOX personnel prior to any use. With or without this factor, there is always the possibility of an acceptable level of noise especially when the vehicle is using carbon fibre as all or part of the chassis.

According to the above mentioned specifications and conditions the transmission is guaranteed for a period of 15 months from shipping date, as indicated on shipping documents issued by Gearfox TC srl for DEMO vehicles except for different agreements (e.g. extension of 12 additional month's warranty) and it is valid for the period of the vehicle manufacturing and recognised only at the vehicle production plant after an internal quality service claim. As soon as the vehicle leaves the assembly plant, and Gearfox TC srl has received by fax, e-mail or other agreed communication method, that the Gearbox number ... on the vehicle number ... Has left to the nominated dealer, the warranty is temporarily frozen until further communication from the vehicle manufacturer to further add the vehicle registration details. From the date of registration the warranty is recognised for a period of 12 months (24 if there has been an agreed warranty extension). The warranty will become invalid if more than 24 months from the shipping date (36 months if extended). This means that the gearbox cannot stay unused for more than 12 months from the shipping date. If this is the case the gearbox must be returned to Gearfox TC srl for checks and upgrades which will be subject to charge.

The term warranty is used to indicate the replacement or repair, free of charge, of any parts in the transmission that Gearfox TC srl (or its nominated agents) personnel have found to be flawed to the manufacturing defects. The transmission dismounting from the vehicle must be agreed with the Gearfox TC srl (or its nominated agents) after sales department as well as the vehicle return to the car manufacturer's plant.

The warranty does not cover any parts that prove defective as a result of negligence or careless use, erroneous installation or maintenance, maintenance performed by unauthorised personnel or shipping damage. In other words it does not cover anything which cannot be unequivocally attributed to transmission manufacturing defects. Likewise, this warranty does not cover technical intervention for installation of the transmission.

Defects, anomalies and damage due to normal wear, bad weather conditions and natural events are also excluded from the present warranty.

The parts installed under warranty are covered by the warranty for its natural duration. Any piece replaced during the warranty is the property of Gearfox TC srl.

The warranty is recognised at the Gearfox TC srl operational plants at via Molino di Sotto 28a - 40019 S. Agata Bolognese (BO), Italy. If necessary Gearfox TC srl shall replace the transmission with a functioning one. Gearfox TC srl shall reimburse shipping costs only if the warranty conditions for repair are recognised and the gearbox testing sheet (attached) is completely filled by the company test driver.

Any operations required on the transmission must be performed solely at Gearfox TC srl headquarters except different agreements between the parts. You shall bear all costs and risks related to shipping.

Gearfox TC srl will not take into consideration any indications received directly from the final customer (vehicle user) since the company shall only recognise communications from yourself.

Gearfox TC srl declines any responsibility for damages, direct or indirect, to persons, animals or things resulting from non-compliance with the prescriptions and in particular the warnings for installation, engine characteristics, and operation and maintenance of the transmission.

Improper use of the transmission will invalidate the warranty. Track use, Dyno testing and road simulation are all improper uses of the transmission. Tampering with seals on the transmission will invalidate the warranty

Use of the transmission for any purpose other than that indicated herein invalidates the warranty. For example, but not limited to this, if the vehicle is used for competition or in a circuit or on a test bench or with components capable to increase the spinning torque.

The warranty is not recognised if Gearfox TC srl is not notified of the problem within 10 days of its discovered or if the transmission arrives at Gearfox TC srl headquarters without the after sales department agreement.

When the last month warranty (except extensions) has elapsed, the transmission is no longer covered by the warranty and you alone are responsible for all technical service costs as per the GearFox TC price list. The sole exception to this is the replacement of lubricant oil, even after the warranty has expired.

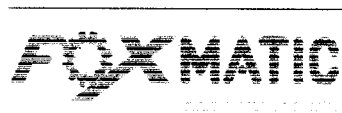
The warranty cannot be extended in any way pursuant to intervention.

While you have the rights to the services covered in the above terms of the warranty, withdrawal from the present contract, replacement of the transmission or reduction of the sale price are expressly forbidden, as is the payment of direct or indirect damages.

Except for the warranty set out in this document, GearFox TC does not recognise any other warranty whether explicit, implicit or statutory, including those regarding marketability or suitable for a particular purpose. Any implicit, legally imposed warranty is limited to the duration of this warranty. In no case can GearFox TC srl be held responsible for any occasional, special or consequential damages, including loss of market or profits due to lack of use pursuant or related to the use or performance of the product, even if GearFox TC srl was notified of the onset of such damages.



Validation sheet for GEARFOX T906H or S



CAR N°.....GEARBOX N°.....DATE.....

LEFT HAND DRIVE OR RIGHT HAND DRIVE.....

MANUAL.....OR AUTOMATED.....

LUBRICANT TYPE.....

ENGINE TYPE.....

CLUTCH TYPE.....

EXHAUST TYPE.....

COOLING SYSTEM TYPE.....

CLUTCH DRAG CHECK.....

LINKAGE ADJUSTMENT CHECK.....

METEO CONDITIONS.....

OUT SIDE TEMPERATURE.....

PRE-DELIVERY INSPECTOR.....

PHASE 1) WARM UP THE VEHICLE

PHASE 2) ADAPTATION DRIVE (FREQUENT SHIFTINGS RESPECTING A SYSTEM IN ADAPTATION)

DRIVE LIKE THAT AT LEAST FOR 50 KM.

PHASE 3) HANDLING ANALYSE

A) TOURISTIC DRIVING

UPSHIFTING:.....

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DOWNSHIFTING:.....

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IN

GENERAL:.....

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B) SPORT DRIVING

UPSHIFTING:.....

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DOWNSHIFTING:.....

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**IN
GENERAL:**.....
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PHASE 4) SYNCHRONISATION ANALYSE

A) TOURISTIC DRIVING

UPSHIFTING:.....
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DOWNSHIFTING:.....
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**IN
GENERAL:**.....
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A) SPORT DRIVING

UPSHIFTING:.....
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DOWNSHIFTING:.....
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**IN
GENERAL:**.....
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PHASE 5) VIBRATION ANALYSE

**IF YES, IN WHICH GEAR, SPEED AND ENGINE
REVOLUTIONS?.....**

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**IF POSSIBLE ENGAGE THE UPPER GEAR. IS THE
VIBRATION STILL THERE ?**

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**IF YES, AT WHICH SPEED AND ENGINE
REVOLUTIONS ?**

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**IF POSSIBLE, DOWN SHIFT TWICE. IS THE
VIBRATION STILL THERE ?**

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**IF YES, AT WHICH SPEED AND ENGINE
REVOLUTIONS ?**

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**FEEL FREE TO EXPLORE MORE AND
SUMMARISE YOUR THOUGHTS ABOUT.**

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PHASE 6) NOISE ANALYSE

IS THE TRANSMISSION NOISLY ?.....

**IF YES, DESCRIBE IF THE FREQUENCIES ARE
VARIABLE OR PROPER FREQUENCIES.**

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**IN WHICH GEAR ARE YOU DETECTING THE
NOISE?**

**KEEPING CONSTANT THE SPEED, IN WHICH
GEAR AND ENGINE REVOLUTIONS ARE YOU
DETECTING THE NOISE?**

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**KEEPING CONSTANT THE GEAR AND
CHANGING THE SPEED IS THE NOISE**

**CHANGING CHARACTERISCS OR IS IT NOT
THERE
ANYMORE?.....**

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WHAT IS THE ENGINE LOAD?

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**BUY CHAGING THE GEAR IS THE NOISE
DISAPPEARING??**

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**BY DOING A SLOW TRANSITORY IS THE NOISE
CHANGING?.....**

**BY DOING A SLOW AND CONSTANT
TRANSITORY PASS FROM THE POINT OF
MAXIMUM INTENSITY OF THE NOISE AND
QUANTIFY THE DECIBEL NUMBER OF THE
GENERAL VEHICLE NOISE AND THE NUMBER
OF DECIBEL OF THE NOISE PEAK GENERATED
BY THE TRANSMISSION.**

TEST SAMPLE: PEAK AT 180 KM/H IN 6TH GEAR. ENGAGE THE SIXTH. START A SLOW ACCELERATION FROM 140 KM/H TO 220 KM/H.. AS SOON AS YOU REACH 220 KM/H START A DECELERATION IN THE SAME TIME OF THE ACCELERATION. AT LEAST IT SHALL BE ABOUT 30+ 30 SECONDS.
THE MICROPHONE MUST BE PLACED BETWEEN THE HEADS OF THE OCCUPANTS AS WELL AS THE FIRST ACCELEROMETER. THE SECOND ACCELEROMETER SHOULD BE PLACED ON THE TRANSMISSION.
PRINT THE GRAPHICS. THE PEAK SHOULDN'T GO OVER A THEORETICAL PARALLEL LINE TO THE GENERAL VEHICLE NOISE LINE PLACED 15 DECIBEL ABOVE THE MESURED LINE.
IF THE PEAK GETS OVER THE SECOND LINE, YOU SHALL CLAIM A WARRANTY GEARBOX REPLACEMENT.

MORE INFORMATIONS:

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KM AT START.....KM AT RETURN.....
TEST DRIVER.....
GEARFOX
SUPERVISOR.....

SUPERVISOR NOTES:

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AGREED ACTIVITIES:

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