



## **New high-acceleration MAN TipMatic for fire and disaster control vehicles**

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MAN is offering a new gearshift program for emergency services vehicles in the TGL and TGM series. This is characterised by better acceleration and a special downshifting strategy for the emergency run.

**MAN Truck & Bus**  
Dachauer Straße 667  
80995 Munich

**Head of  
Corporate Communications**  
Dominique Nadelhofer

Tel. +49 89 1580-2001  
Dominique.Nadelhofer@man.eu  
www.mantruckandbus.com

The driving profile of a fire service vehicle on an emergency run differs from the driving strategy in typical traffic flow. The engine driver endeavours to get to the deployment site quickly, but safely. In this situation, as he is concentrating on what is happening on the road, the automated MAN TipMatic<sup>®</sup> gearshift program available from MAN proves a real help. The engine driver does not need to hold the gear lever to engage the appropriate gear while simultaneously synchronising the movement of the clutch pedal and the accelerator. Thanks to new performance-optimised programming, MAN TipMatic<sup>®</sup> for emergency services vehicles now shifts gear in such a way that the drive coordination ensures powerful bursts of acceleration. To access this program, the rotary switch located within easy reach next to the driver's seat is switched to position Ds for the emergency run.

A typical driving situation illustrates the advantage of the new gearbox software: An emergency services vehicle is approaching a traffic light junction. The traffic light is red for the fire service vehicle and the cross-traffic is flowing. However he has special right of way and is allowed to cross the junction. To do this, the engine driver must first brake to walking pace to ensure that all road users have been made aware of the emergency services vehicle's right of way. Then the driver steps fully on the accelerator to continue rapidly on his way.

A shorter shifting time and a special downshifting logic make for better acceleration after the deceleration phase. Because of the greater stress on the driveline, which is, however, of no consequence given the limited operating hours of emergency services vehicles on emergency runs, this version of



MAN TipMatic® is exclusively reserved for use on fire and disaster control vehicles.

On the journey back from the deployment location the vehicle drives normally through flowing traffic. At this point the standard drive program D is used. If the vehicle needs to go off-road, MAN TipMatic® provides the off-road drive program Dx for all-wheel drive vehicles. It is also possible to change between gearshift programs D, Ds and Dx while driving.

MAN Truck & Bus are offering the performance-optimised gearshift program for the MAN TGM series with on-road and all-wheel drive in a fire-service version. At the moment it is available ex works for engines with 290 and 340 hp in the Euro 5 version, EEV exhaust gas standard and China 4 version. The additional cost is around €400. This means that MAN covers the majority of the product range for fire service vehicles. For vehicles with Euro 6 engines, the preparations for the market launch are under way.

This version of MAN TipMatic® can be retrofitted on emergency services vehicles in Euro 5, EEV and China 4 versions. The offer is intended for the MAN TGL series in the power ratings 220 and 250 hp and MAN TGM series with 250, 290 and 340 hp.

#### **The Transport Efficiency Program by MAN Truck & Bus**

The amount of transport and traffic on Europe's roads continues to rise. At the same time, the long-term dwindling of energy resources is making transport increasingly more expensive. As one of the world's leading manufacturers of buses and trucks, MAN Truck & Bus makes an important contribution to the continued improvement of transport efficiency. MAN offers a comprehensive efficiency program to reduce total cost of ownership. Transport efficiency, consolidated in the fields of technology, service, the driver and future expertise, protects the environment and represents added value for our customers.

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#### **CONSISTENTLY EFFICIENT**

The MAN Group is one of Europe's leading industrial players in transport-related engineering, with annual revenues of approximately €15.8 billion in 2012. MAN is a supplier of trucks, buses, diesel engines, turbo machinery and special transmissions and has around 54,300 employees worldwide. MAN's business areas are all leaders in their markets.