

TWO NEW VARIANTS OF “GEAR SHIFT CYLINDER” AND SEVEN RELATED REPAIR KITS NOW AVAILABLE

With more than 40 years' experience in clutch control and over 20 years in transmission automation, WABCO has developed – in close cooperation with commercial vehicle manufactures – a wide range of driveline control systems and devices.

WABCO develops tailored transmission automation solutions to effectively modify the existing gearbox into an automated manual transmission (AMT).

In addition to its existing portfolio, WABCO supplies two variants of gear shift cylinders and seven related repair kits for the heavy duty range of Daimler and FUSO vehicle applications for the independent aftermarket (IAM).



WABCO Gear shift cylinder
421 350 087 0, 421 350 088 3

PRODUCT NUMBERS AND CROSS-REFERENCES

WABCO IAM product number	Gear type	Replacement for / Cross-references		WABCO IAM gross price
		WABCO OE product number	Daimler product number	
421 350 088 0	synchron	421 350 081 0	A9452603163	EUR 1,362.00 GBP 1,130.00
		421 350 082 0	A9452603163	
		421 350 084 0	A9452603163	
		421 350 086 0	A9452603963	
421 350 087 0	asynchron (Klaue)	421 350 083 0	A9302600163	EUR 591.00 GBP 491.00
		421 350 085 0	A9302600263	

REPLACEMENT

Due to its function in the gear shift system, gear shift cylinders are subject to greater wear than all other cylinders in automated manual transmission (AMT). Furthermore, gear shift cylinders are mounted outside of the gearbox and are thus easily accessible without opening the gearbox.

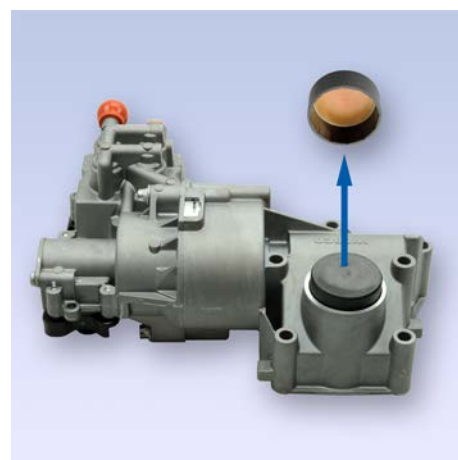
DIAGNOSIS AND TEACH-IN PROCEDURE

After replacing the gear shift cylinder a teach-in procedure has to be performed using the "EPS Diagnostic Software" (WABCO product number 246 301 897 0). For replacement of gear shift cylinder, only a "small teach-in procedure" is required.

REPLACEMENT NOTE

After removing the defect gear shift cylinder from the gearbox, the sealing cover in the defective gear shift cylinder needs to be removed and re-assembled in the new gear shift cylinder.

Usually the sealing cover does not break, in case it needs to be replaced, is the sealing cover available at Daimler under product number **A9452611933**.



Removing the sealing cover

REPAIR KITS FOR GEAR SHIFT CYLINDERS

It is not always necessary to replace the complete gear shift cylinder. Worn parts of the gear shift cylinder cylinder can be replaced cost sensitive using the following repair kits.

Repair kit description	Repair kit product number	Daimler cross reference	for WABCO main device		WABCO gross price
			OEM product number	IAM product number	
Solenoid Valve	421 350 927 2	A0025404997	421 350 080 0	421 350 087 0 421 350 088 0	EUR 154.30 GBP 128.10
	421 350 928 2	A0025405097	421 350 081 0		
Gasket set	421 350 930 2	A0002606968	421 350 082 0		EUR 36.00 GBP 29.88
Shaft seal	421 350 931 2	A0002607068	421 350 083 0		EUR 59.30 GBP 49.23
Valve	421 350 932 2	A0002690444	421 350 084 0		EUR 93.60 GBP 77.69
Exhaust cap	421 350 934 2	A0002610982	421 350 085 0		EUR 10.20 GBP 8.49
Distance sensor	421 350 935 2	A9455422518	421 350 086 0		EUR 99.60 GBP 82.66

Information on WABCO products can be found in our [INFORM](http://inform.wabco-auto.com) product catalogue (inform.wabco-auto.com) by entering the product number in the "Product Number" search field.

Please contact your [WABCO partner](http://www.wabco-auto.com/findwabco) for further information (www.wabco-auto.com/findwabco).