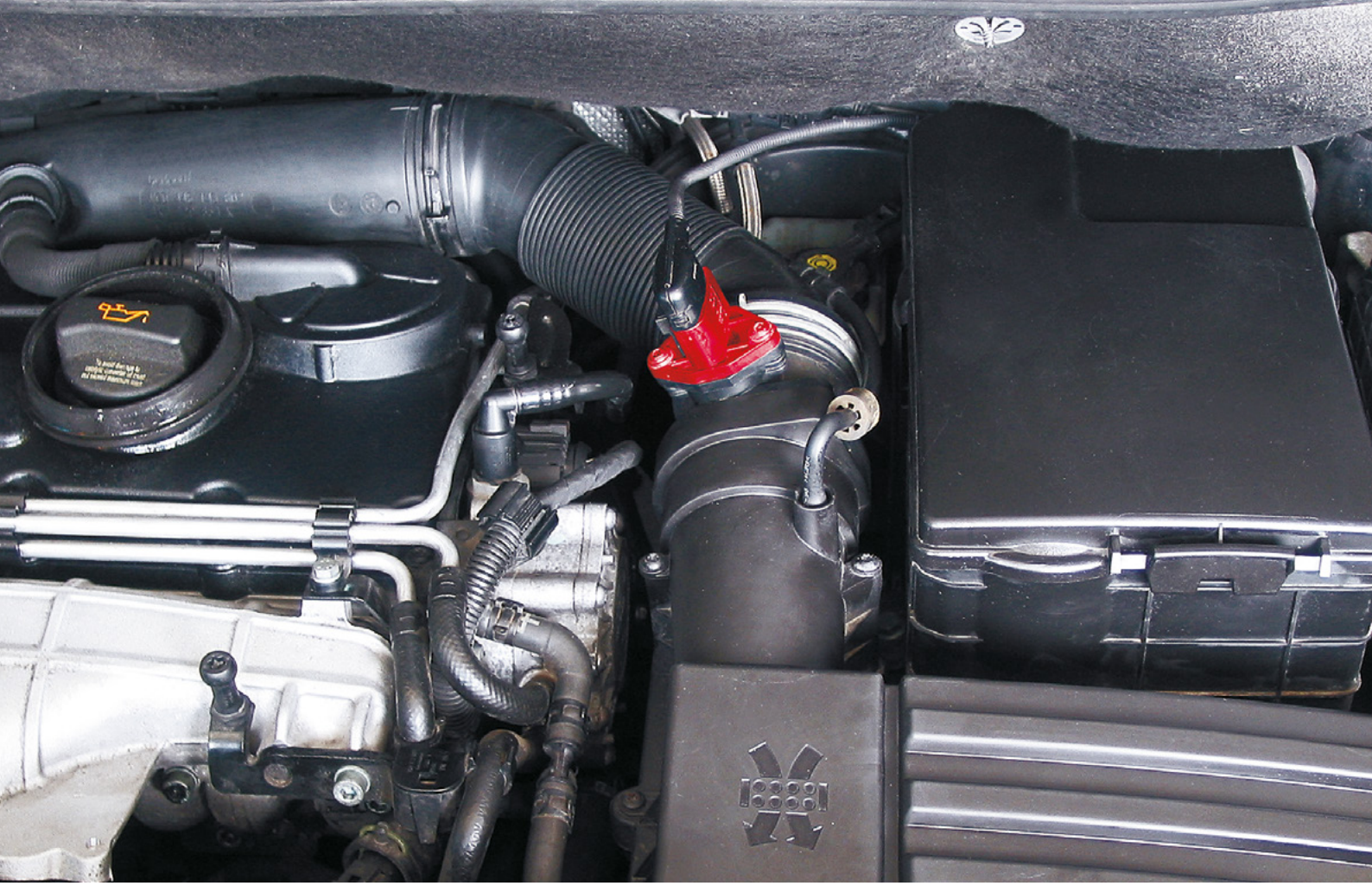
PIERBURG

PRODUCT KNOWLEDGE

AIR MASS SENSORS
TOP SELLERS IN THE AFTERMARKET

PASSION FOR **TECHNOLOGY.**

RHEINMETALL

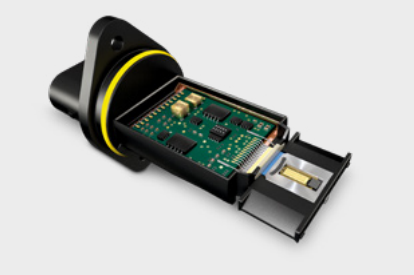


MAKING MAXIMUM PERFORMANCE A BREEZE

THE TOP SELLER IN THE AFTERMARKET

It has been used in every vehicle for the last decade: the air mass sensor has become one of the most important components in engine management. Its signal is used to calculate the injected fuel quantity, and, in diesel engines, also for regulating the exhaust gas recirculation. It is therefore a key component in the air supply system and for emission control.

The increasingly more stringent requirements for environmental protection ensured that the new generation of air mass sensors became more and more precise. Pulsations and return flows can also be detected in designs with two separate measurement bridges.



Not just a “sensor”, but also accumulated intelligence (sectional view).

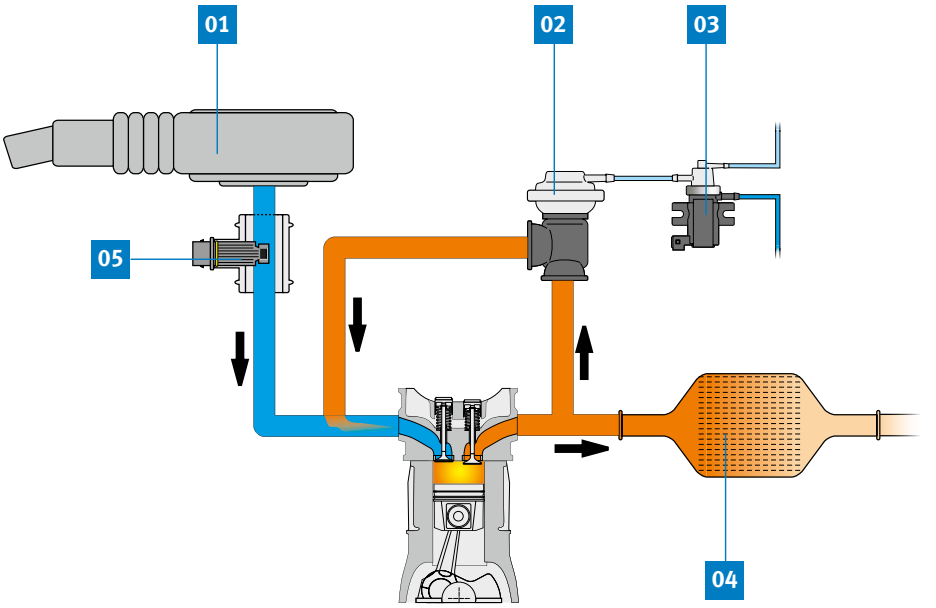
Whether as a plug-in probe or with a flow tube: Pierburg air mass sensors measure with the highest precision.

A toolkit for loosening special screws that are installed as standard.

KEEPING TRACK OF AIR – NOT JUST IN EGR

Exhaust gas recirculation (EGR) is a tried-and-tested method for emission control in diesel vehicles. In order that the recirculated exhaust gases can be precisely controlled, the drawn-in air mass must first be measured with a high level of precision – a task for the air mass sensor. In petrol vehicles, the mass air flow signal is used to precisely determine the load state of the engine, and provides an input variable for the ignition timing. In petrol engines, the air mass sensor's signal also compensates for the missing lambda sensor signal during the cold start phase.

Air mass sensors are often also wrongly known as air flow meters. However, the air flow meter only detects the air volume. Air mass sensors, on the other hand, are significantly more precise since temperature and pressure are also taken into account when measuring the air mass.



01 Air filter
02 EGR valve (pneumatic)
03 Electropneumatic pressure transducer
04 Catalytic converter
05 Air mass sensor (LMS)

You can find information about the product range in our "Pierburg Parts" catalogue, reference number 50 003 566 or on www.ms-motorservice.com

Here is how to easily find the right air mass sensor for you:

Air mass sensors are assigned to the "Air supply" group. This is immediately recognisable from a special pictogram in the Pierburg product catalogue.

Air mass sensors are labelled with "LMS".

If it concerns a plug-in probe without a flow tube, this is additionally noted.

PIERBURG — VOLKSWAGEN

		PIERBURG			
GOLF IV					**14**
1.9 TDI 81 kW (110 PS) AHF	10.1997→06.2001	**7.21903.70.0**	DW-AGR	EP	→1J-X-999 000
		7.22903.01.0	DW-AGR	EP	1J-Y-000 001→
		7.21903.75.0	DW-TL	EP	→1J-X-999 000
		7.22903.04.0	DW-TL	EP	1J-Y-000 001→
		7.18221.51.0	LMS	EL	→1J-X-180 000
		7.22684.08.0	LMS	EL	nur Fühler/only sensor
		7.24809.17.0	AGR	PN	
		7.24808.03.0	VP	EFPR	
		7.02074.15.0	WUP	EL	
1.9 TDI 81 kW (110 PS) AVG	08.1999→10.2000	**7.21903.75.0**	DW-TL	EP	
		7.22684.08.0	LMS	EL	nur Fühler/only sensor
		7.22266.60.0	AGR	PN	mit Saugrohr/with suction pipe

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www.rheinmetall.com
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