

**PI 2192**

For technical personnel only!

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PRODUCT **INFORMATION**

10 PRESSURE SWITCHES FOR MORE THAN 200 MILLION VEHICLE AIR CONDITIONING SYSTEMS



Motorservice has added an initial 10 Pierburg pressure switches for air conditioning systems to its product portfolio. The pressure switches cover a fleet of more than 200 million vehicles worldwide, including many hybrid and electric vehicles. Together with the new electric air conditioning compressor, Motorservice is making further strides to open up the aftermarket for high-voltage vehicles.

The pressure switches are approved for use with R134a and R1234yf refrigerants.

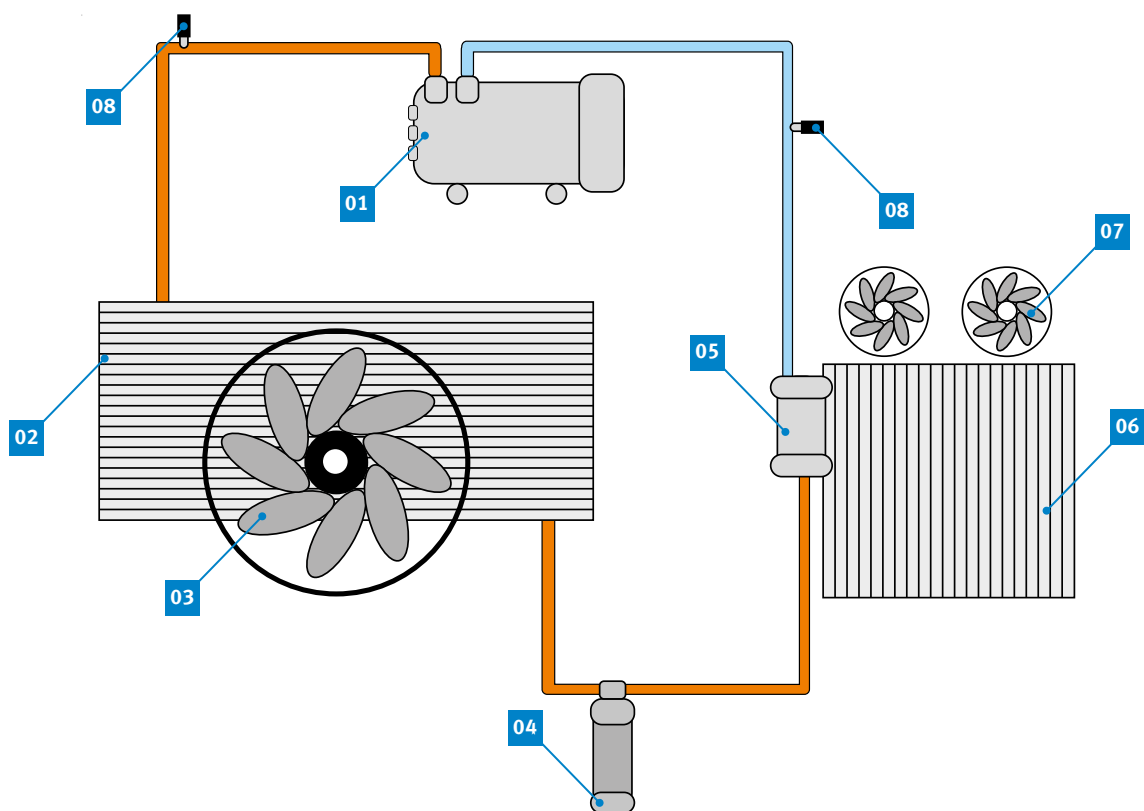


The refrigerant circuit of an air conditioning system in a vehicle is divided into high- and low-pressure sides. In general, two pressure switches are fitted in the vehicles – one for the high-pressure side and one for the low-pressure side. Alternatively, there may be e.g. a combined pressure switch for both sides. The pressure switches monitor the pressure and—if necessary—switch off the air conditioning compressor. The most common reasons for switching off the air conditioning compressor are to:

- Avoid damage to the air conditioning compressor
- Avoid overheating
- Avoid leakage or explosions due to excessive pressure
- Ensure the efficiency of the air conditioning system

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REFRIGERANT CIRCUIT IN AIR-CONDITIONING SYSTEMS (SCHEMATIC DIAGRAM FEATURING TWO PRESSURE SWITCHES)**01** (Electric) compressor**02** Condenser**03** Condenser fan**04** Filter dryer**05** Expansion valve**06** Evaporator**07** Interior fan**08** Pressure switch High-pressure side
 Low-pressure side

Item no.	OEM	Ref. no. (partial list)	Example vehicles
7.14848.02.0	Toyota	4990007141; 4990007880; 88719 33020; 88719 40020	Camry
7.14848.03.0	Kia	97721 3K000; 977211G000	RIO II Saloon
7.14848.04.0	Fiat	0000046790717; 0000050550372; 0000051713182; 0000052163182	500
7.14848.05.0	Ford	3799054; 4673935; 5 044 586; 5 471 192	Fiesta VI
7.14848.06.0	Peugeot	6455 CK; 6455.Z3; 96 53 027 380	208
7.14848.00.0	Tesla	1008515-00-C	Model 3 (5YJ3) – EV
7.14848.07.0	Nissan	2W19265810; 42CP8-11; 42CP8-12; 42CP8-9; 42CP811	Juke
7.14848.08.0	BMW	0 141 211; 0 152 475; 0141211; 42CP26-2; 499000-7111	X5
7.14848.09.0	Audi	1J0 959 126 E; 1K0 959 126 D; 3R0 959 126; 4L0 959 126	A3
7.14848.01.0	Tesla	1108608-00-B	Model S (5YJS) – 85

* Names, descriptions and numbers of engines, vehicles, products, manufacturers etc. are mentioned solely for the purpose of comparison.
The parts contained in the information are spare parts in guaranteed quality for the engines and vehicles listed.