

**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.

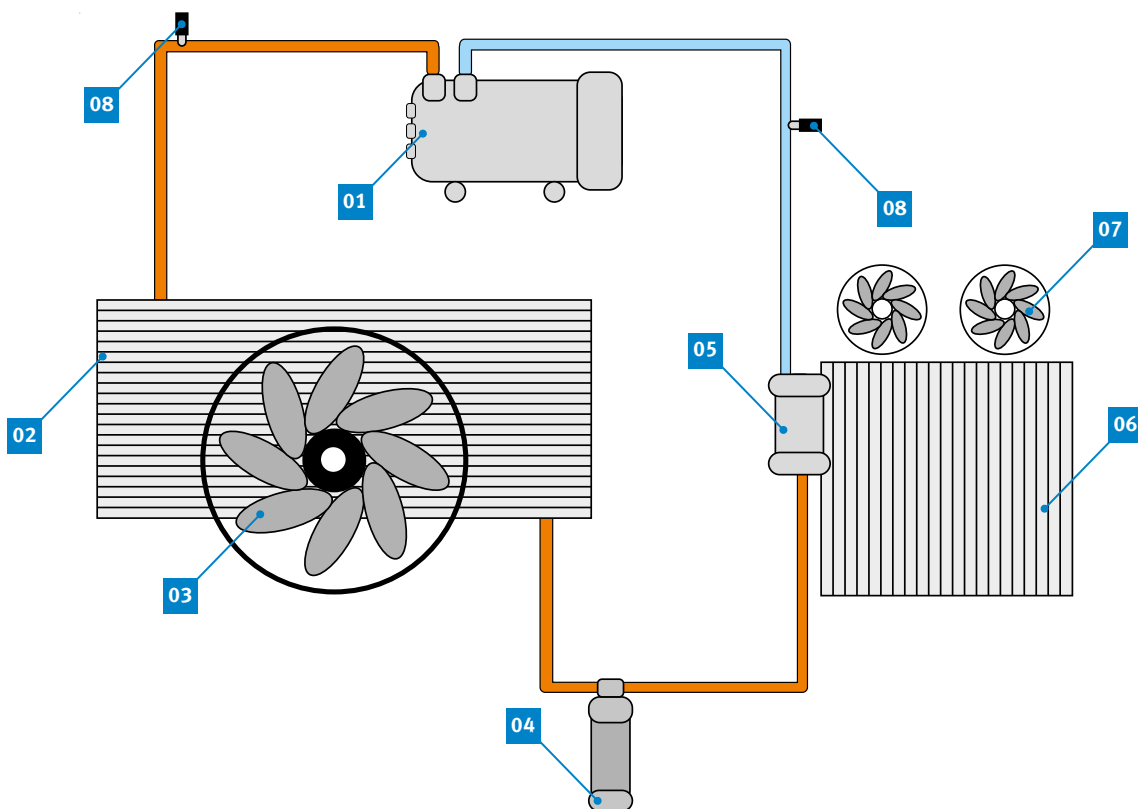
The pressure switches are approved for use with R134a and R1234yf refrigerants.

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



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
7.14848.00.0	Tesla	1008515-00-C; 1008515-00-B; 1008515-00-A	Model S (5YJS)
7.14848.01.0	Tesla	1108608-00-B; 1108608-00-A	Model 3 (5YJ3), Model X (5YJX), Model S (5YJS)
7.14848.02.0	Toyota	88719-40020; 88719-33020	Auris, Avensis, Camry, Corolla, Hiace, Hilux, Prius, Rav 4, Verso, Yaris
7.14848.03.0	Hyundai, Kia	977211G000; 977213K000	Accent, Elantra, Genesis, Getz, Grandeur, i10, i20, i30, i40, Santa Fé, Sonata, Tucson, Veloster, Bongo, Carens, Cee'd, Cerato, Magentis, Optima, Picanto, Pro Cee'd, Rio, Sorento, Sportage
7.14848.04.0	Fiat	51713182; 50550372	500, Croma, Doblo, Ducato, Grande Punto, Idea, Linea, Palio, Panda, Punto, Stilo, Strada, Tipo
7.14848.05.0	Ford	3799054; 4673935; 5044586; 5471192	B-Mac, C-Max, Ecosport, Fiesta, Focus, Fusion, Galaxy, Grand C-Max, Ka, Kuga, Mondeo, Ranger, S-Max, Tourneo, Transit
7.14848.06.0	Peugeot	6455CK; 6455Z3; 9853027380; 9833078680	1007, 2008, 206, 207, 208, 3008, 307, 308, 406, 407, 408, 5008, 508, Expert, Partner, Rifter, Traveller
7.14848.07.0	Nissan	921361FA0A; 921363Z600	350 Z, 370 Z, Almera, Cube, GT-R, Juke, Leaf, Maxima, Micra, Navara, Note, NP 300, NV 200, Pathfinder, Primera, Pulsar, Qashqai, Tiida, X-Trail
7.14848.08.0	BMW	64 53 9 323 658; 64 53 9 181 464; 64 53 9 141 957	1, 2, 3, 4, 5, 6, 7, X1, X2, X3, X4, X5, X6, X7
7.14848.09.0	Audi	8E0 959 126	A1, A3, A4, A6, A7, A8, Q3, Q7, TT

* 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.