



MAJORSELL®
AIR BRAKE PRODUCTS

A/C Compressors



Based in the industrial heartland of England, Majorsell Ltd supplies and manufactures an extensive range of air brake products.

Majorsell Limited was established in 1980 as a reconditioning workshop of air brake equipment for commercial vehicles and off-road equipment, specialising in the repair of spring brakes and brake valves. As quality parts were hard to obtain, the decision was made to introduce a range of Majorsell air brake parts, primarily for use in its own workshop. This then became the start of the kit programme for which Majorsell is now internationally renowned. The range of kits offered has now evolved from just brake valves to air dryers, clutch servos, calipers and of course compressors.



The range of Majorsell compressor repair kits and components has increased continually during the last 30 years and is now probably the most extensive range of aftermarket compressor parts offered by a single company in the world. All of our compressor kits are designed with the rebuilder in mind to offer high quality and maximum choice whilst keeping costs to a minimum. They are all built in our UK warehouse to our specification and all of our compressor parts are used in our own reconditioning workshop.



In early 2011 we moved to a much larger facility in West Bromwich and invested a substantial amount in new machinery for our workshop, including a brand new test machine. In 2012 another building was purchased to accommodate the increase in demand for our rebuilt compressors and in 2014 an expansion to our existing workshop was completed.



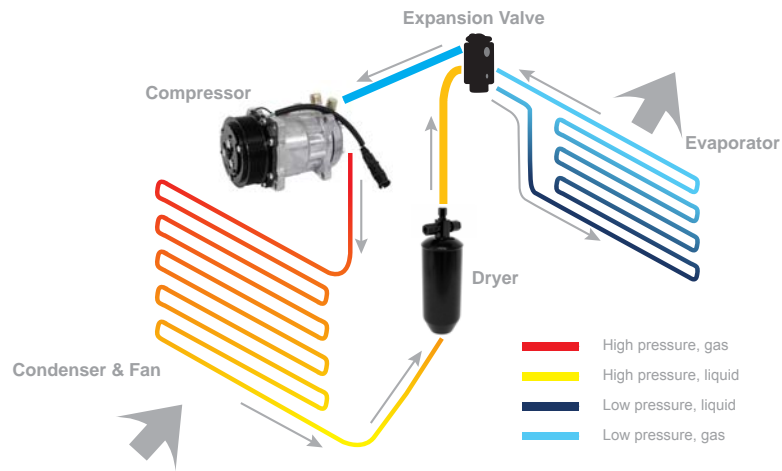
Majorsell has been exporting since 1986 and now exports to over 70 countries. Our customers include small workshops and rebuilders as well as fleet operators and large distributors. We pride ourselves on our customer service and attention to detail. All of our parts are carefully packed and are easily identifiable in our distinctive Majorsell packaging. Majorsell is an internationally recognised brand which is something we are very proud of.

All Majorsell parts are alternative to OE and are replacements to those of all the leading makes of air brake and truck manufacturers. Over the years we have developed a large database of cross references and technical information, all of which is available on our website. To avoid confusion with any other manufacturer we have our own unique part numbering system.



In addition to air brake parts we also offer a comprehensive range of caliper parts and air conditioning compressors as well as ancillary items and workshop consumables. We are pleased to be official stockists of Wabco, Cummins, Raufoss, Fleetguard and Valvoline.

How the compressor works:



The compressor plays a key role in the air conditioning (A/C) system. It compresses the refrigerant which is then transported through the system creating high and low pressure. The compressor is crucial for the efficiency of the A/C system as it enables the coolant to change its form from gas to liquid and flow through each component at both high and low pressure.

The refrigerant moves around the system in two forms. It leaves the compressor as a gas but then changes to a liquid as it is pushed through the condenser. When the liquid refrigerant leaves the condenser, it is pushed through the system and the expansion valve where the pressure drops. This creates a combination of gas and liquid which then enters the evaporator, absorbing heat from the air in the vehicle cabin and thus generating the cold air. The refrigerant then leaves the evaporator as a gas and the cycle is continually repeated due to the ability of the compressor to create the high and low pressure.

The compressor is deemed to be one of the most expensive elements of the system due to its complexity. However, the A/C system will not run efficiently without it functioning correctly. To ensure the compressor operates properly it needs the correct electrical power supply, must be driven by the engine timing belt and requires the correct lubrication for the internal mechanical elements.

Notes for A/C system maintenance:

- Use the A/C system regularly, ideally keeping it on at all times
- Keep the system well maintained and serviced regularly using only authorised A/C specialists
- Install a new receiver dryer every time the system has been opened
- When installing a new A/C compressor, make sure that the correct type and quantity of oil is used
- Use only high quality compressors which are supplied with a warranty

Common causes of compressor failure:

- Mechanical damage caused by using incorrect or impure lubricant or lack of refrigerant
- Leakage in the system
- Moisture or impurities in the system caused by opening it incorrectly, leakage or an old or worn receiver
- Timing belt failure
- Failure of a compressor part - e.g. bearing, piston

Indications of a failed compressor:

- Lack of cold air when the A/C system is turned on
- Buzzing or rattling noises coming from the compressor
- Unusual vibrating of the compressor
- Failure to start or run – this can only be assessed when the compressor has been made visible

The table below shows a brief selection of the air conditioning compressors we offer. For more information and details of our full range, including our complete reference list with specific vehicle models and engine codes, please contact our sales department or visit our website.

Model	Vehicle	Compressor	Dryer
DAF			
DAF	CF 85 (2001>)	23AC007	23AC030
DAF	F 95 (1987>)	23AC005	N/A
DAF	XF 95 (1997>)	23AC005	23AC034
DAF	XF 105 (2005>)	23AC007	23AC030
IVECO			
Iveco	Euromover (1992>)	23AC015	23AC026
Iveco	Eurostar (1999>)	23AC014	23AC026
Iveco	Eurotech (1992>)	23AC015	23AC026
Iveco	Eurotech (1992>)	23AC014	23AC026
Iveco	Eurotrakker (1992>)	23AC014 23AC015	23AC026 23AC026
Iveco	Stralis (2002>)	23AC014 23AC015	N/A N/A
Iveco	Trakker (2002>)	23AC014 23AC015	N/A N/A
MAN			
MAN	F 2000 (1994>)	23AC021	23AC029
MAN	TG-A (2002>)	23AC008 23AC021	23AC027 23AC027
MAN	TG-L & TG-M (2005>)	23AC018	23AC027
MAN	TG-S & TG-X (2007>)	23AC008	23AC027
MERCEDES			
Mercedes	Actros (1996>)	23AC001 23AC002	Need OE No Need OE No
Mercedes	Axor (2002>)	23AC011	23AC023
Mercedes	Zetros (2008>)	23AC001 23AC002	23AC033 23AC033
RVI - RENAULT			
Renault	Magnum (2005>)	23AC009	N/A
Renault	Midlum (2006>)	23AC019	N/A
Renault	Premium (2000>)	23AC006	23AC024
Renault	Premium Distribution (2005>)	23AC017 23AC019	23AC031 23AC031
Renault	Premium Lander (2006>)	23AC017 23AC019	Need Eng Code Need Eng Code
Renault	Premium Route (2005>)	23AC017 23AC019	N/A N/A

Original part numbers are used for reference only. All parts offered are Majorsell brand and may not be of an original supply. Majorsell kit content and ring sets may be different to the original.

Model	Vehicle	Compressor	Dryer
SCANIA			
Scania	4-Series (1995>)	23AC003	23AC025
Scania	4-Series (2004>)	23AC003	23AC025
VOLVO			
Volvo	FH (2013>)	23AC010	N/A
Volvo	FH 12 (1993>)	23AC012 23AC013	23AC028 23AC028
Volvo	FH 12 (1999>)	23AC004	23AC028
Volvo	FH 13 (2006>)	23AC004 23AC010	23AC028 23AC028
Volvo	FH-16 (1993>)	23AC004 23AC010 23AC012 23AC013	23AC028 23AC028 23AC028 23AC028
Volvo	FH-16 (2002>)	23AC004 23AC010 23AC012 23AC013	23AC028 23AC028 23AC028 23AC028
Volvo	FL (2006>)	23AC019	N/A
Volvo	FL 12 (1985>)	23AC012 23AC013	N/A N/A
Volvo	FM-10 (1999>)	23AC004	N/A
Volvo	FM-11 (2008>)	23AC004 23AC010	N/A N/A
Volvo	FM-12 (1998>)	23AC004	N/A
Volvo	FM-7 (1998>)	23AC004	N/A
Volvo	FM-9 (2001>)	23AC004	N/A
Volvo	NH 12 (1999>)	23AC004 23AC012	23AC028 23AC028
Volvo	Volvo BM	23AC016	N/A
Volvo	WG (1993>)	23AC004	23AC028

All of our A/C compressors are designed and manufactured to conform to the OE standards promising an easy installation and perfect fit on the vehicle. They are each pre-filled with the right type of PAG lubricant and with the correct amount and viscosity. They are also supplied with O-rings, electrical adaptors and an easy installation guide including the product warranty terms.



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