

SERVICE BULLETIN

Title: 17M, P, S Oil Pump with R-134a
Models Affected: 17M, P, S Compressor

Number: C9806
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Purpose:

To inform the field of a modification to the bearing system of the 17M,P,S compressor internal oil pump.

Background:

Several reports have been received from the field of bearing failures of the 17MA41-423 internal oil pump operating on R-134a. As a result Engineering has redesigned the oil pump to use needle bearings. The original bearings in the internal, shaft-driven internal oil pump, 17MA41-423 are

File: Specified Parts

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sleeve type bearings which depend on surface film lubrication. The chlorine in the refrigerant had acted as a high pressure surface lubricant and played a significant role in lubricating the pump. The introduction of chlorine-free refrigerants has resulted in oil pump failures in these compressors because of the lack of that extra lubrication. Only a few jobs have had failures but on those jobs the conditions are right to cause the pump to fail repeatedly.

The replacement for the 17MA41-423 pump has been used in production since December 1997 and is in stock under part number 17MA41-794.

If you are installing a pump in a chlorine based refrigerant, i.e. R-12, R-22, etc., compressor, the original pump 17MA41-423 will work. If you are performing a refrigerant conversion to R-134a, the 17MA41-794 pump should be installed.

The new pump 17MA41-794 can be substituted in all cases for the original pump.

The 17M52-323 pump used on older 17M30 and 17P30 compressors is also designed with sleeve bearings. Engineering is currently working on redesigning this pump. Until a new pump is released for the 17M52-323, its use with R-134a should be restricted.

Mail Keys: 2.33A, 2.33B, 2.33D, 2.40, 2.40A, 2.40B, 2.40D, 2.40M, 2.46A, 5.25G