

Refrigerant Changeover Guidelines CFC-12 to R-401A

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Refrigerant Changeover Guidelines Cfc 12 To R 401a Mp39

**Interior Climate Control Service
Committee**



Refrigerant Changeover Guidelines Cfc 12 To R 401a Mp39:

Automotive Air-Conditioning Refrigerant Service Guide Philip G Gott, 1996-07-01 Packed with information on the servicing and retrofitting of air conditioning refrigerant systems so that shops and technicians can meet federal regulations satisfy customers and prevent damage to the environment The second edition of the Automotive Air Conditioning Refrigerant Service Guide was written to provide the latest information to automotive air conditioning service professionals in order to help them comply with federal certification requirements and prevent damage to the environment With an emphasis on proper recovery and recycling techniques for both R 12 and R 134a as well as the proper retrofitting of R 12 systems to R 134a the book will serve as a valuable instructional tool and resource for technicians Chapters cover General Safety and Service Precautions Refrigerant and System Properties Equipment for the Extraction only of Refrigerant and Equipment for the Recycling of Refrigerant Service Procedure for the Containment of Automotive Air Conditioning Refrigerants Retrofitting CFC 12 R 12 Mobile Air Conditioning Systems to HFC 134a R 134a **R-12 (CFC-12), R-134a (HFC-134a), R-1234yf (HFO-1234yf), R-744, and R-152a (HFC-152a) Technician Training for Service and Containment of Refrigerants Used in Mobile A/C Systems** Interior Climate Control Service Committee, 2021 Mobile air conditioning MAC systems used in passenger cars and light duty trucks are covered by these SAE Standards when servicing the refrigerant system Technician training is required to ensure that recommended procedures are used for service and repair of MAC systems using R 12 R 134a R 1234yf R 744 and R 152a refrigerants Unique requirements for each refrigerant are detailed within this standard Technicians may be trained in any or all refrigerants The technician shall be trained to recognize which refrigerant is being handled and how to handle it safely and be equipped with the essential information proper equipment and tools which are unique to these refrigerants This standard outlines minimum content requirements for such training programs Training programs designed in accordance with this standard are not intended to ensure or assess the technical skills of technicians regarding the diagnosis and repair of motor vehicle air conditioners Rather the goal of such programs is to provide information to technicians about safely handling refrigerants and control of emissions during service This SAE Standard is intended to identify the requirements for service technicians to be professionally trained when required to service MAC systems that use refrigerant Updates are being made to add R 152a and revise some requirements for other refrigerants **Procedure Retrofitting CFC-12 (R-12) Mobile Air-Conditioning Systems to HFC-134a (R-134a)** Interior Climate Control Service Committee, 2011 The purpose of this SAE Recommended Practice is to provide a service procedure for retrofitting a CFC 12 R 12 system to HFC 134a R 134a while preserving performance and integrity of the air conditioning A C system The steps outlined in this procedure are complete when combined with good service practices and the vehicle manufacturer s recommendations if available for retrofitting their models Separate service equipment for CFC 12 R 12 and HFC 134a R 134a including refrigerant recovery recycle R R service manifolds vacuum pumps and charging

equipment shall be used to preserve the purity of the refrigerants and the mobile A C systems This procedure will minimize release of refrigerant to the atmosphere and will preserve the integrity of the recycled CFC 12 R 12 and HFC 134a R 134a supplies This document applies to A C systems used to cool the passenger compartment of automobiles light trucks and other vehicles with similar CFC 12 R 12 systems Due to technical advancements in recent years this procedure is recommended for common vehicle platforms produced in the mid 1980s and later Vehicles produced before this time period may require additional retrofit requirements A C systems used on mobile vehicles for refrigerated cargo that have hermetically sealed systems are not covered by this document This document is only complete when combined with the requirements of SAE J1657 Selection Criteria for Retrofit Refrigerants to Replace CFC 12 R 12 in Mobile Air conditioning Systems The technical report covers technology products or processes which are mature and not likely to change in the foreseeable future

Vehicle Testing Requirements for Replacement Refrigerants for CFC-12 (R-12) Mobile Air-Conditioning Systems Interior Climate Control Vehicle OEM Committee,2011 The purpose of this SAE Recommended Practice is to establish the specific criteria for the selection of a replacement refrigerant for mobile CFC 12 R 12 air conditioning A C systems This document provides guidelines for qualifying candidate refrigerant The requirements include laboratory and field testing The alternate refrigerant shall provide comparable system performance as CFC 12 R 12 as defined herein The vehicle testing shall be conducted on representative vehicle manufacturer s product line in which the refrigerant is intended to be used such as cycling clutch orifice tube constant run orifice tube cycling clutch expansion valve or continuous run expansion valve refrigerant system This document is complete only when combined with the requirements of SAE J1657 The technical report covers technology products or processes which are mature and not likely to change in the foreseeable future

Vehicle Testing Requirements for Replacement Refrigerants for CFC-12 (R-12) Mobile Air-Conditioning Systems Interior Climate Control Steering Committee,1999 The purpose of this SAE Recommended Practice is to establish the specific criteria for the selection of a replacement refrigerant for mobile CFC 12 R 12 air conditioning A C systems This document provides guidelines for qualifying candidate refrigerant The requirements include laboratory and field testing The alternate refrigerant shall provide comparable system performance as CFC 12 R 12 as defined herein The vehicle testing shall be conducted on representative vehicle manufacturer s product line in which the refrigerant is intended to be used such as cycling clutch orifice tube constant run orifice tube cycling clutch expansion valve or continuous run expansion valve refrigerant system This document is complete only when combined with the requirements of SAE J1657

Procedure Retrofitting CFC-12 (R-12) Mobile Air-Conditioning Systems to HFC-134a (R-134a) Interior Climate Control Steering Committee,1998 The purpose of this SAE Recommended Practice is to provide a service procedure for retrofitting a CFC 12 R 12 system to HFC 134a R 134a while preserving performance and integrity of the air conditioning A C system The steps outlined in this procedure are complete when combined with good service practices and the vehicle manufacturer s

recommendations if available for retrofitting their models Separate service equipment for CFC 12 R 12 and HFC 134a R 134a including refrigerant recovery recycle R R service manifolds vacuum pumps and charging equipment shall be used to preserve the purity of the refrigerants and the mobile A C systems This procedure will minimize release of refrigerant to the atmosphere and will preserve the integrity of the recycled CFC 12 R 12 and HFC 134a R 134a supplies This document applies to A C systems used to cool the passenger compartment of automobiles light trucks and other vehicles with similar CFC 12 R 12 systems Due to technical advancements in recent years this procedure is recommended for common vehicle platforms produced in the mid 1980s and later Vehicles produced before this time period may require additional retrofit requirements A C systems used on mobile vehicles for refrigerated cargo that have hermetically sealed systems are not covered by this document This document is only complete when combined with the requirements of SAE J1657 Selection Criteria for Retrofit Refrigerants to Replace CFC 12 R 12 in Mobile Air conditioning Systems **A Guide to CFC**

Reclamation and Retrofits David C. Parks, 1993 *Guide to Refrigeration CFC's* Carl E. Salas, Marianne Salas, 1992 This timely guide brings together in one convenient source the information you need to assess CFC related alternatives requirements and restrictions The information presented will enable you to assess how the mandated phaseout of chlorofluorocarbons CFC s will impact your own operations You will find out what regulations and guidelines currently impact CFC use including the revised Clean Air Act Montreal Protocols and state and local regulations and what changes and enforcement policies are likely in the future You will find out what refrigeration alternatives are available as well as what costs and risks are associated with each You will learn what factors you must take into account in selecting new equipment such as chillers screw compressors and heat pumps Technologies for CFC recycling reclamation and reuse are also detailed Loaded with both practical information and technical details this reference will guide the reader in addressing difficult questions assessing complex alternatives and developing the optimum long term strategy for meeting the challenge of CFC phaseout

Safety and Design Standards for Motor Vehicle Refrigerant Vapor Compression Systems Interior Climate Control Vehicle OEM Committee, 2020 This SAE Standard applies to refrigerant vapor compression systems that provide cooling and or heating for passenger cars light trucks and commercial vehicles on and off road that use automotive type mobile air conditioning MAC systems Large trucks buses and other vehicles that do not use typical automotive A C systems or use refrigerants not listed in this document are not covered by this standard This standard covers vehicles with MAC systems using belt driven compressors and electric motor driven compressors This document provides industry recognized standards for the design assembly and test of MAC systems including necessary service equipment and is intended to cover all phases of the lifetime of MAC systems to minimize environmental health and safety impacts The standards listed in this document cover the currently accepted industry guidelines and procedures The standards can be used as requirements for regulatory authorities to meet minimum environmental health and safety requirements Also included are cautionary statements for the

service industry to alert technicians to the inadvisability and possible health or safety effects associated with venting refrigerant during service. It is not intended to restrict the use or further development of other types of refrigerants or refrigeration systems for MAC applications. This document may be amended or additional safety standards created should other refrigerants or refrigeration systems become practical. This document addresses only HFC 134a, R 134a, carbon dioxide, R 744, HFO 1234yf, R 1234yf and HFC 152a, R 152a refrigerants. For R 152a refrigerants, this standard will only apply to secondary loop systems. To prevent system contamination, all refrigerants used in MAC vapor compression systems require unique service fittings and service equipment. The unique service fittings are intended to significantly reduce the potential for refrigerant cross contamination during service activities. CFC 12, R 12 is no longer in use in new MAC systems. The service fitting description is maintained as a reference for older vehicles still in use. When retrofitting an R 12 system to use R 134a or when removing R 12 during vehicle disposal, use service equipment designed for R 12 and certified to meet the requirements of SAE J1990, R 12 recovery and recycle equipment. This document covers refrigerant system design and safety related requirements for refrigerants used in mobile air conditioning MAC systems and is being updated for the addition of a secondary loop R 152a system and general improvements for example and clarity. The intent of this standard is to ensure safe MAC systems by forcing proper risk assessments and appropriate design solutions.

Refrigerant Management Billy C. Langley, 1994. This new text prepares HVAC students and technicians for EPA certification in the handling and disposal of chlorofluorocarbons (CFCs) providing information on all areas of certification including the four licensing areas for stationary air conditioning and refrigeration equipment and automotive equipment. Table of Contents: Basic Theory of Ozone Depletion, CFCs, Their Problems and Alternatives, Refrigerant Regulations, Refrigerant Conservation, Refrigerant Recovery, Recycle and Reclaim Methods of Refrigerant Recovery and Recycling, Commercial Stationary Air Conditioning and Refrigerant Systems, Residential Refrigeration and Air Conditioning, Motor Vehicle Air Conditioning Service, Refrigerant Recovery and Recycling Systems.

Safety Standards for Motor Vehicle Refrigerant Vapor Compressions Systems Interior Climate Control Steering Committee, 2011. This SAE Standard applies to refrigerant vapor compression systems that provide cooling and/or heating for passenger cars, light trucks and commercial vehicles on and off road that use automotive type mobile air conditioning MAC systems. Large trucks, buses and other vehicles that do not use typical automotive a/c systems or use refrigerants not listed in this document are not covered by this standard. This standard covers any vehicle with a MAC system using a belt or electric motor driven compressor. This document provides standards for design, assembly, test and service of MAC systems to minimize environmental, health and safety impacts. Also included are cautionary statements for the service industry to alert technicians to the inadvisability and possible health or safety effects associated with venting refrigerant during service. It is not intended to restrict the use or further development of other types of refrigeration systems for mobile air conditioning applications. This document may be amended or additional safety standards created should other systems

become practical This document addresses only HFC 134a R 134a carbon dioxide R 744 and HFO 1234yf R 1234yf refrigerants To prevent system contamination all refrigerants used in mobile air conditioning vapor compression systems require unique service fittings and service equipment The unique service fittings are intended to eliminate the potential for system refrigerant cross contamination during service activity CFC 12 R 12 is no longer in use in new MAC systems The service fitting description is maintained as a reference for older vehicles still in use When retrofitting an R 12 system to use R 134a or when removing R 12 vehicle disposal use service equipment designed for R 12 and certified to meet the requirements of SAE J1990 R 12 recovery and recycle equipment HFC 152a is an A2 flammable refrigerant as classified by ASHRAE 34 and should be used only with a secondary loop application However until MAC systems are developed to use R 152a HFC 152a no SAE Standards for system design service equipment or service procedures have been established The R 152a service fittings described within this Standard were established as part of the industries evaluation of replacement refrigerants and are maintained for future design guidance and to prevent potential refrigerant cross contamination The SAE Interior Climate Control Standards Committee has been involved with the mobile air conditioning industry in developing alternate low GWP replacement refrigerants The revisions in this document cover engineering guidelines and establishing specifications for mobile air conditioning systems using current and alternate replacement refrigerants R 1234yf is added here for the first time Safety Standards for Motor Vehicle Refrigerant Vapor Compression Systems Interior Climate Control Vehicle OEM Committee,2011 This SAE Standard applies to refrigerant vapor compression systems that provide cooling and or heating for passenger cars light trucks and commercial vehicles on and off road that use automotive type mobile air conditioning MAC systems Large trucks buses and other vehicles that do not use typical automotive a c systems or use refrigerants not listed in this document are not covered by this standard This standard covers any vehicle with a MAC system using a belt or electric motor driven compressor This document provides standards for design assembly test and service of MAC systems to minimize environmental health and safety impacts Also included are cautionary statements for the service industry to alert technicians to the inadvisability and possible health or safety effects associated with venting refrigerant during service It is not intended to restrict the use or further development of other types of refrigeration systems for mobile air conditioning applications This document may be amended or additional safety standards created should other systems become practical This document addresses only HFC 134a R 134a carbon dioxide R 744 and HFO 1234yf R 1234yf refrigerants To prevent system contamination all refrigerants used in mobile air conditioning vapor compression systems require unique service fittings and service equipment The unique service fittings are intended to eliminate the potential for system refrigerant cross contamination during service activity CFC 12 R 12 is no longer in use in new MAC systems The service fitting description is maintained as a reference for older vehicles still in use When retrofitting an R 12 system to use R 134a or when removing R 12 vehicle disposal use service equipment designed for R 12 and certified to meet the

requirements of SAE J1990 R 12 recovery and recycle equipment HFC 152a is an A2 flammable refrigerant as classified by ASHRAE 34 and should be used only with a secondary loop application However until MAC systems are developed to use R 152a HFC 152a no SAE Standards for system design service equipment or service procedures have been established The R 152a service fittings described within this Standard were established as part of the industries evaluation of replacement refrigerants and are maintained for future design guidance and to prevent potential refrigerant cross contamination This document covers refrigerant system design and safety related requirements for refrigerants used in mobile air conditioning MAC systems and is being revised to comprehend R 1234yf The current wording of 4.1.1 prohibits refrigerants that are rated less than A2L which would exclude R 152a Later in the document J639 defines the fittings for R 152a The intent of this revision is to insure safe mobile air conditioning systems by forcing proper risk assessments and appropriate design solutions while correcting this conflict with regards to R152a

Recommended Service Procedure for the Containment of Cfc-12 (R-12) Interior Climate Control Steering Committee,1989 During service of mobile air conditioning systems containment of the refrigerant is important This procedure provides service guidelines for technicians when repairing vehicles and operating equipment defined in SAE J1990

Recommended Service Procedure for the Containment of CFC-12 (R-12) Interior Climate Control Service Committee,2011 During service of mobile air conditioning A C systems containment of the refrigerant is important This procedure provides service guidelines for technicians when repairing vehicles and operating equipment defined in SAE J1990 R12 refrigerant has been out of use in new OEM vehicles since 1995 The technical report covers technology products or processes which are mature and not likely to change in the foreseeable future

Cfc-12 (R-12) Refrigerant Recovery Equipment for Mobile Automotive Air-Conditioning Systems Interior Climate Control Steering Committee,1992 The purpose of this SAE Recommended Practice is to provideequipment specifications for CFC 12 R 12 recovery for return to arefrigerant reclamation facility that will process it to theappropriate ARI standard Air Conditioning and RefrigerantInstitute or allow for recycling of the recovered refrigerant inequipment that is certified to meet the requirements of SAE J1991 Under the existing rule the U S EPA requires refrigerant removedfrom a mobile air conditioning A C system using recoveryequipment certified to meet SAE J2209 can only be recycled usingequipment meeting SAE J1991 that is owned by the same company orindividual It is not acceptable that the refrigerant removed from a mobileA C system with this equipment be directly returned to a mobileA c system This information applies to equipment used to serviceautomobiles light trucks and other vehicles with similar CFC 12 R 12 systems

CFC-12 (R-12) Refrigerant Recovery Equipment for Mobile Automotive Air-Conditioning Systems Interior Climate Control Service Committee,2011 The purpose of this SAE Standard is to provide equipment specifications for CFC 12 R 12 recovery for return to a refrigerant reclamation facility that will process it to the appropriate ARI Standard Air Conditioning and Refrigerant Institute or allow for recycling of the recovered refrigerant in equipment that is certified to meet the

requirements of SAE J1991 Under the existing rule the U S EPA requires refrigerant removed from a mobile air conditioning A C system using recovery equipment certified to meet SAE J2209 can only be recycled using equipment meeting SAE J1991 that is owned by the same company or individual It is not acceptable that the refrigerant removed from a mobile A C system with this equipment be directly returned to a mobile A C system This information applies to equipment used to service automobiles light trucks and other vehicles with similar CFC 12 R 12 systems The technical report covers technology products or processes which are mature and not likely to change in the foreseeable future

Selection Criteria for Retrofit Refrigerants to Replace CFC-12 (R-12) in Mobile Air-Conditioning Systems Interior Climate Control Steering Committee,1999 The purpose of this SAE Recommended Practice is to provide criteria for determining the acceptability of candidate retrofit refrigerants to replace CFC 12 R 12 in mobile A C systems originally designed to use CFC 12 R 12

Safety and Containment of Refrigerant for Mechanical Vapor Compression Systems Used for Mobile Air-Conditioning Systems Interior Climate Control Steering Committee,1999 This SAE Recommended Practice is restricted to mechanical vapor compression refrigerant systems that provide cooling for the occupant s compartment This document provides guidelines for refrigerant containment and safety for a mobile air conditioning A C system It is not intended to restrict the use of or further development of other types of refrigeration systems for passenger compartment cooling Should other systems be found practical at some future time this document may be amended or an additional recommended safety practice drawn up for other types of systems This document only addresses CFC 12 R 12 and HFC 134a R 134a refrigerants To prevent mobile A C system refrigerant contamination all other alternate refrigerants considered for automotive use require unique service fittings

CFC Phase Out User Guide Australian Institute of Refrigeration, Air Conditioning and Heating. National Refrigerant/CFC Sub-Committee,1995

Alternate Refrigerant Consistency Criteria for Use in Mobile Air-Conditioning Systems Interior Climate Control Fluids Committee,2015 This SAE Recommended Practice applies to refrigerant blends multicomponent refrigerants intended for use as retrofit refrigerants to replace CFC 12 R 12 in mobile air conditioning A C systems Since the composition of non azeotropic refrigerant mixtures changes as refrigerant is lost either through the vapor phase or the liquid phase the method of charging A C systems is important The purpose of this document is to determine the proper refrigerant phase liquid or vapor for system charging by relating system performance changes to the charging method This document is complete only when combined with the requirements of SAE J1657 The original proposal to stabilize this document was balloted in March of 2013 Five voters recommended that instead the document be removed from circulation The document applies to R12 refrigerant which was phased out of automotive use in 1995 The document should be cancelled to make it clear that future replacement refrigerants are not a replacement for R12 but replacements for R134a which is the current refrigerant used in most automotive applications today

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