



# NEWS

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FOR IMMEDIATE RELEASE  
May 23, 2005

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## **MAP Standards Updated for HVAC**

Bethesda, Maryland — The Motorist Assurance Program (MAP) has released updates to its *Uniform Inspection & Communication Standards (UICS)* for HVAC. Definitions for A/C System Flushing and In-Line Filter usage were added to the UICS and the components affected were updated. These updates are effective immediately and come recommended by the AMRA/MAP Technical Committee as a result of the research and maintenance services being explored by the AMRA Maintenance Service Program.

As part of the ongoing effort to update and re-publish the MAP UICS bi-annually, the MAP Board has determined that interim updates, such as these, should be released as developed when appropriate.

The updates for this system are listed on the attached excerpt. Revised copies of the complete HVAC standard will soon be available in electronic format from AMRA/MAP.

Contact Tim Tierney at [tim@motorist.org](mailto:tim@motorist.org) (301 634 4952) with your request.

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MAP was formed in June 1992 by a group of service providers, manufacturers, associations and others who were concerned about the reputation of the automotive repair industry. MAP works to strengthen communication and trust between the industry and its customers.



*Condition*

*Code*

*Procedure*

## **System: Heating, Ventilation and Air Conditioning Systems**

AIR CONDITIONING SYSTEM FLUSHING utilizes chemicals or refrigerant to remove oil, debris and contaminants from the evaporator, condenser, hoses or metal lines.

An INLINE FILTER, both high and low side, protects a/c components from residual debris in the system. An inline filter or suction screen is suggested when a condenser, evaporator, compressor, expansion valve, accumulator/drier, hoses or metal lines is replaced, or if debris is found in the system during an a/c repair. An inline filter is suggested to help prevent future component damage and increase system longevity.

### **Component : Evaporators**

When replacing this component it is suggested to install or replace high and low side inline filters to prevent future component damage (see Code 5).

Abrasion damage, affecting structural integrity	A	Require repair or replacement
Abrasion damage, not affecting structural integrity		No service suggested or required
Air flow obstruction, affecting performance	A	Require repair or replacement
Attaching hardware broken	A	Require repair or replacement of hardware
Attaching hardware missing	C	Require replacement of hardware
Attaching hardware not functioning	A	Require repair or replacement of hardware
Bracket bent, affecting performance	A	Require repair or replacement
Bracket bent, not affecting performance		No service suggested or required
Bracket broken, affecting performance	A	Require replacement
Bracket broken, not affecting performance		No service suggested or required

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Bracket corroded, affecting performance	A	Require repair or replacement
Bracket corroded, not affecting performance	2	Suggest repair or replacement
Bracket cracked, affecting performance	A	Require repair or replacement
Bracket cracked, not affecting performance	1	Suggest repair or replacement
Bracket holes elongated, affecting performance	A	Require repair or replacement
Bracket holes elongated, not affecting performance		No service suggested or required
Bracket loose, affecting performance	A	Require repair or replacement
Bracket loose, not affecting performance	1	Suggest repair or replacement
Bracket missing	C	Require replacement
Corroded, affecting structural integrity	A	Require replacement
Corroded, not affecting structural integrity		No service suggested or required
Evaporator foam seal leaking	A	Require replacement
Evaporator foam seal missing	C	Require replacement
Fitting type incorrect (such as compression fitting)	B	Require replacement
Flange leaking	A	Require repair or replacement
Leaking	B	Require repair or replacement
Microbial growth causing odor	2	Suggest microbial odor removal

*If the evaporator case is contaminated with debris, it may be necessary to remove the debris before applying microbial odor treatment.*

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Restricted internally	A	Require repair or replacement
Threads damaged	A	Require repair or replacement
Threads stripped (threads missing)	A	Require replacement

## ***Component : Heater Cases***

Air control door binding	A	Require repair or replacement
Air control door broken	A	Require repair or replacement
Air control door leaking	A	Require repair or replacement
Air control door seized	A	Require repair or replacement
Attaching hardware broken	A	Require repair or replacement of hardware
Attaching hardware missing	C	Require replacement of hardware
Attaching hardware not functioning	A	Require repair or replacement of hardware
Cracked	2	Suggest repair or replacement
Drain hole restricted	A	Require repair
Drain plugged	A	Require repair
Duct disconnected	A	Require repair or replacement
Duct leaking	A	Require repair or replacement
Duct missing	C	Require replacement

<i>Condition</i>	<i>Code</i>	<i>Procedure</i>
Duct restricted	A	Require repair or replacement
Leaking	B	Require repair or replacement
Microbial growth causing odor	2	Suggest microbial odor removal <i>If the heater case is contaminated with debris, it may be necessary to remove the debris before applying microbial odor treatment.</i>
Noisy	2	Suggest cleaning or repair
Restricted	A	Require cleaning, repair, or replacement

## *Reason Code Explanation*

### Code Reason

#### Required

- A Part No Longer Performs Intended Purpose**
- B Part Does Not Meet A Design Specification ( Regardless Of Performance)**
- C Part Is Missing**

#### Suggested/Optional

- 1 Part Is Close To The End Of Its Useful Life**
- 2 To Address A Customer Need, Convenience Or Request**
- 3 To Comply With Maintenance Recommended By The Vehicle's Original Equipment Manufacturer**
- 4 Technician's Recommendation Based On Substantial And Informed Experience**
- 5 To Comply With Maintenance Recommended By AMRA/MAP**