



*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<br><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**