

## PROBLEM SYMPTOMS TABLE

| Symptom                                                                                          | Suspect Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | See page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Whole functions of the A/C system does not operate                                               | 1. A/C control assembly<br>2. ACC power source circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">IN-29</a><br><a href="#">DI-964</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Air Flow Control: No blower operation                                                            | 1. ACC power source circuit<br>2. Heater main relay circuit<br>3. Blower motor circuit<br>4. A/C control assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">DI-964</a><br><a href="#">DI-646</a><br><a href="#">DI-967</a><br><a href="#">IN-29</a>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Air Flow Control: No blower control                                                              | 1. Heater main relay circuit<br>2. Blower motor circuit<br>3. A/C control assembly<br>4. Solar sensor circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">DI-646</a><br><a href="#">DI-967</a><br><a href="#">IN-29</a><br><a href="#">DI-926</a><br><a href="#">DI-935</a>                                                                                                                                                                                                                                                                                                                                                                                              |
| Air Flow Control: Insufficient air flow                                                          | Blower motor circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">DI-967</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Temperature Control: No cool air comes out                                                       | 1. Refrigerant volume<br>2. Drive belt tension<br>3. Refrigeration system inspection with manifold gauge set<br>4. Compressor circuit<br>5. Pressure switch circuit<br>6. Compressor lock sensor circuit<br>7. Air mix damper position sensor circuit<br>8. Air mix damper control servomotor circuit<br>9. Room temp. sensor circuit<br>10. Ambient temp. sensor circuit<br>11. A/C control assembly                                                                                                                                                                                   | <a href="#">AC-22</a><br><a href="#">AC-15</a><br><a href="#">AC-3</a><br><a href="#">DI-969</a><br><a href="#">DI-932</a><br><a href="#">DI-929</a><br><a href="#">DI-938</a><br><a href="#">DI-947</a><br><a href="#">DI-950</a><br><a href="#">DI-959</a><br><a href="#">DI-914</a><br><a href="#">DI-917</a><br><a href="#">IN-29</a>                                                                                                                                                                                  |
| Temperature Control: No warm air comes out                                                       | 1. Air mix damper position sensor circuit<br>2. Air mix damper control servomotor circuit<br>3. Room temp. sensor circuit<br>4. Ambient temp. sensor circuit<br>5. Evaporator temp. sensor circuit<br>6. A/C control assembly                                                                                                                                                                                                                                                                                                                                                           | <a href="#">DI-938</a><br><a href="#">DI-947</a><br><a href="#">DI-950</a><br><a href="#">DI-959</a><br><a href="#">DI-914</a><br><a href="#">DI-917</a><br><a href="#">DI-920</a><br><a href="#">IN-29</a>                                                                                                                                                                                                                                                                                                                |
| Temperature Control: Output air is warmer or cooler than the set temperature or response is slow | 1. Refrigerant volume<br>2. Drive belt tension<br>3. Refrigeration system inspection with manifold gauge set<br>4. Cooling fan system<br>5. Solar sensor circuit<br>6. Room temp. sensor circuit<br>7. Ambient temp. sensor circuit<br>8. Evaporator temp. sensor circuit<br>9. Air mix damper position sensor circuit<br>10. Air mix damper control servomotor circuit<br>11. Air inlet damper position sensor circuit<br>12. Air inlet damper control servomotor circuit<br>13. Condenser<br>14. Evaporator<br>15. Heater radiator<br>16. Expansion valve<br>17. A/C control assembly | <a href="#">AC-22</a><br><a href="#">AC-15</a><br><a href="#">AC-3</a><br><a href="#">CO-22</a><br><a href="#">DI-926</a><br><a href="#">DI-935</a><br><a href="#">DI-914</a><br><a href="#">DI-917</a><br><a href="#">DI-920</a><br><a href="#">DI-938</a><br><a href="#">DI-947</a><br><a href="#">DI-950</a><br><a href="#">DI-959</a><br><a href="#">DI-941</a><br><a href="#">DI-953</a><br><a href="#">AC-52</a><br><a href="#">AC-57</a><br><a href="#">AC-60</a><br><a href="#">AC-62</a><br><a href="#">IN-29</a> |

## DIAGNOSTICS – AIR CONDITIONING SYSTEM

| Symptom                                                                              | Suspect Area                                                                                                                                                                            | See page                                                                                                                                                                          |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Control: No temperature control (only Max. cool or Max. warm)            | 1. Room temp. sensor circuit<br>2. Ambient temp. sensor circuit<br>3. Air mix damper position sensor circuit<br>4. Air mix damper control servomotor circuit<br>5. A/C control assembly | <a href="#">DI-914</a><br><a href="#">DI-917</a><br><a href="#">DI-938</a><br><a href="#">DI-947</a><br><a href="#">DI-950</a><br><a href="#">DI-959</a><br><a href="#">IN-29</a> |
| No air inlet control                                                                 | 1. Air inlet damper position sensor circuit<br>2. Air inlet damper control servomotor circuit<br>3. A/C control assembly                                                                | <a href="#">DI-941</a><br><a href="#">DI-953</a><br><a href="#">IN-29</a>                                                                                                         |
| No air flow mode                                                                     | 1. Air outlet damper position sensor circuit<br>2. Air outlet damper control servomotor circuit<br>3. A/C control assembly<br>4. Exhaust gas sensor                                     | <a href="#">DI-944</a><br><a href="#">DI-956</a><br><a href="#">IN-29</a><br><a href="#">DI-923</a>                                                                               |
| Engine idle up does not occur, or is continuous                                      | 1. Compressor circuit<br>2. A/C control assembly                                                                                                                                        | <a href="#">DI-969</a><br><a href="#">IN-29</a>                                                                                                                                   |
| Blinking of A/C indicator                                                            | 1. Compressor circuit<br>2. A/C control assembly                                                                                                                                        | <a href="#">DI-969</a><br><a href="#">IN-29</a>                                                                                                                                   |
| Set temp. value displayed does not change up with operation of temp. control switch. | A/C control assembly                                                                                                                                                                    | <a href="#">IN-29</a>                                                                                                                                                             |
| DTC not recorded.<br>Set mode is cleared when IG switch is turned off.               | 1. Back-up power source circuit<br>2. A/C control assembly                                                                                                                              | <a href="#">DI-962</a><br><a href="#">IN-29</a>                                                                                                                                   |