

# PROBLEM SYMPTOMS TABLE

## FRONT A/C

| Symptom                                                                                           | Suspect Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | See page                                                                                                                                     |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Whole functions does not operate                                                                  | 1. IG power source circuit<br>2. A/C amplifier<br>3. EMV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DI-1291<br>DI-1233<br>–                                                                                                                      |
| Air Flow Control: No blower operation                                                             | 1. IG power source circuit<br>2. Heater main relay<br>3. Blower motor circuit<br>4. A/C amplifier<br>5. Blower motor controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DI-1291<br>AC-15<br>DI-1294<br>DI-1233<br>–                                                                                                  |
| Air Flow Control: No blower control                                                               | 1. Blower motor circuit<br>2. A/C amplifier<br>3. Solar sensor circuit<br>4. Blower motor controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DI-1294<br>DI-1233<br>DI-1258<br>–                                                                                                           |
| Air Flow Control: Insufficient air flow                                                           | 1. Blower motor circuit<br>2. Blower motor controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DI-1294<br>–                                                                                                                                 |
| 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. Front air mix damper position sensor circuit<br>7. Front air mix damper control servomotor circuit<br>8. Front room temp. sensor circuit<br>9. Ambient temp. sensor circuit<br>10. A/C amplifier<br>11. Engine (and ECT) ECU                                                                                                                                                                                                                                           | –<br>–<br>–<br>DI-1297<br>DI-1264<br>DI-1270<br>DI-1279<br>DI-1241<br>DI-1244<br>DI-1233<br>–                                                |
| Temperature Control: No warm air comes out                                                        | 1. Front air mix damper position sensor circuit<br>2. Front air mix damper control servomotor circuit<br>3. Front room temp. sensor circuit<br>4. Ambient temp. sensor circuit<br>5. Front evaporator temp. sensor circuit<br>6. A/C amplifier                                                                                                                                                                                                                                                                                                                                                                                                   | DI-1270<br>DI-1279<br>DI-1241<br>DI-1244<br>DI-1247<br>DI-1233                                                                               |
| 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. Front room temp. sensor circuit<br>7. Ambient temp. sensor circuit<br>8. Front Evaporator temp. sensor circuit<br>9. Front air mix damper position sensor circuit<br>10. Front air mix damper control servomotor circuit<br>11. Front air inlet damper position sensor circuit<br>12. Front air inlet damper control servomotor circuit<br>13. Condenser<br>14. Evaporator<br>15. Heater radiator<br>16. Expansion valve<br>17. A/C amplifier<br>18. Engine (and ECT) ECU | –<br>–<br>–<br>–<br>DI-1258<br>DI-1241<br>DI-1244<br>DI-1247<br>DI-1270<br>DI-1279<br>DI-1273<br>DI-1282<br>–<br>–<br>–<br>–<br>DI-1233<br>– |

## DIAGNOSTICS – AIR CONDITIONING SYSTEM

| Symptom                                                                   | Suspect Area                                                                                                                                                                                       | See page                                                                                                                            |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Control: No temperature control (only Max. cool or Max. warm) | 1. Front room temp. sensor circuit<br>2. Ambient temp. sensor circuit<br>3. Front air mix damper position sensor circuit<br>4. Front air mix damper control servomotor circuit<br>5. A/C amplifier | <a href="#">DI-1241</a><br><a href="#">DI-1244</a><br><a href="#">DI-1270</a><br><a href="#">DI-1279</a><br><a href="#">DI-1233</a> |
| No air inlet control                                                      | 1. Front air inlet damper position sensor circuit<br>2. Front air inlet damper control servomotor circuit<br>3. A/C amplifier                                                                      | <a href="#">DI-1273</a><br><a href="#">DI-1282</a><br><a href="#">DI-1233</a>                                                       |
| No air flow control                                                       | 1. Air outlet damper position sensor circuit<br>2. Air outlet damper control servomotor circuit<br>3. A/C amplifier                                                                                | –<br>–<br><a href="#">DI-1233</a>                                                                                                   |
| Engine idle up does not occur, or is continuous                           | 1. Compressor circuit<br>2. Engine (and ECT) ECU                                                                                                                                                   | <a href="#">DI-1297</a><br>–                                                                                                        |

## REAR A/C

| Symptom                                                                                          | Suspect Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | See page                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Whole functions does not operate                                                                 | 1. Rear A/C amplifier<br>2. IG power source circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">IN-38</a><br><a href="#">DI-1291</a>                                                                                                                                                                                |
| Air Flow Control: No blower operation                                                            | 1. IG power source circuit<br>2. Rear heater main relay<br>3. Rear blower motor<br>3. Rear blower resister<br>4. Rear A/C amplifier                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">DI-1291</a><br><a href="#">AC-16</a><br>–<br>–<br><a href="#">IN-38</a>                                                                                                                                             |
| Air Flow Control: No blower control                                                              | 1. Rear heater main relay<br>2. Rear blower motor<br>3. Rear blower resister<br>4. Rear A/C amplifier<br>5. Solar sensor circuit                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">AC-16</a><br>–<br>–<br><a href="#">IN-38</a><br><a href="#">DI-1258</a>                                                                                                                                             |
| Air Flow Control: Insufficient air flow                                                          | 1. Rear blower motor<br>2. Rear blower resister                                                                                                                                                                                                                                                                                                                                                                                                                                                        | –<br>–                                                                                                                                                                                                                          |
| 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. Rear air mix damper position sensor circuit<br>7. Rear air mix damper control servomotor circuit<br>8. Rear room temp. sensor circuit<br>9. Ambient temp. sensor circuit<br>10. Rear A/C amplifier                                                                                                                           | –<br>–<br>–<br><a href="#">DI-1297</a><br><a href="#">DI-1264</a><br><a href="#">DI-1276</a><br><a href="#">DI-1285</a><br><a href="#">DI-1255</a><br><a href="#">DI-1244</a><br><a href="#">IN-38</a>                          |
| Temperature Control: No warm air comes out                                                       | 1. Rear air mix damper position sensor circuit<br>2. Rear air mix damper control servomotor circuit<br>3. Rear room temp. sensor circuit<br>4. Ambient temp. sensor circuit<br>5. Rear evaporator temp. sensor circuit<br>6. Rear A/C amplifier                                                                                                                                                                                                                                                        | <a href="#">DI-1276</a><br><a href="#">DI-1285</a><br><a href="#">DI-1255</a><br><a href="#">DI-1244</a><br><a href="#">DI-1252</a><br><a href="#">IN-38</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. Rear room temp. sensor circuit<br>7. Ambient temp. sensor circuit<br>8. Rear evaporator temp. sensor circuit<br>9. Rear air mix damper position sensor circuit<br>10. Rear air mix damper control servomotor circuit<br>11. Condenser<br>12. Evaporator<br>13. Heater radiator<br>14. Expansion valve<br>15. Rear A/C amplifier | –<br>–<br>–<br>–<br><a href="#">DI-1258</a><br><a href="#">DI-1255</a><br><a href="#">DI-1244</a><br><a href="#">DI-1252</a><br><a href="#">DI-1276</a><br><a href="#">DI-1285</a><br>–<br>–<br>–<br>–<br><a href="#">IN-38</a> |
| Temperature Control: No temperature control (only Max. cool or Max. warm)                        | 1. Rear room temp. sensor circuit<br>2. Ambient temp. sensor circuit<br>3. Rear air mix damper position sensor circuit<br>4. Rear air mix damper control servomotor circuit<br>5. Rear A/C amplifier                                                                                                                                                                                                                                                                                                   | <a href="#">DI-1255</a><br><a href="#">DI-1244</a><br><a href="#">DI-1276</a><br><a href="#">DI-1285</a><br><a href="#">IN-38</a>                                                                                               |