

## CHECK CHART CLASSIFIED BY PROBLEM SYMPTOMS

| Check items  | Starting       |                  | Idling stability                  |                        |                            | Driving         |                   |         |       |       |          | Reference page                   |
|--|----------------|------------------|-----------------------------------|------------------------|----------------------------|-----------------|-------------------|---------|-------|-------|----------|----------------------------------|
|  | Will not start | Starting problem | Idling instability (Rough idling) | Incorrect idling speed | Improper idling continuity | Hesitation, sag | Poor acceleration | Stumble | Shock | Surge | Knocking |                                  |
| Power supply and ignition switch-IG                        | ① [1]          |                  |                                   |                        |                            |                 |                   |         |       |       |          | 13-41                            |
| Engine control unit power ground                           | ② [2]          |                  |                                   |                        |                            |                 |                   |         |       |       |          | 13-44                            |
| Fuel pump  | ③ [3]          | ① [1]            |                                   |                        | ① [1]                      | ① [1]           | ① [1]             |         |       |       |          | 13-45<br><N/T><br>13-48<br><T>   |
| Air flow sensor  |                |                  |                                   |                        | ⑫ [10]                     | ⑫ [12]          |                   | ⑤ [5]   | ⑤ [5] |       | ④ [4]    | 13-54                            |
| Intake air temperature sensor                              |                |                  | ⑤                                 |                        |                            | ⑧ [8]           | ⑨ [9]             |         |       |       | ② [2]    | 13-57                            |
| Barometric pressure sensor                                 |                |                  | ⑦                                 |                        |                            | ⑪ [11]          | ⑪ [11]            |         |       |       | ③ [3]    | 13-60                            |
| Engine coolant temperature sensor                          |                | ③ [3]            | ⑥ [5]                             | ① [1]                  | ⑤ [5]                      | ⑩ [10]          | ⑩ [10]            | ④ [4]   |       | ⑨ [3] |          | 13-62                            |
| Throttle position sensor                                   |                |                  |                                   |                        |                            | ⑨ [9]           |                   | ③ [3]   | ④ [4] |       |          | 13-65                            |
| Idle position switch                                       |                |                  | ③ [3]                             | ② [2]                  | ④ [4]                      |                 |                   |         |       |       |          | 13-68                            |
| Top dead center sensor                                     | ⑤ [5]          | ⑦ [7]            |                                   |                        | ⑧ [7]                      |                 |                   |         | ② [2] |       |          | 13-70                            |
| Crank angle sensor   | ⑥ [6]          | ⑧ [8]            |                                   |                        | ⑨ [8]                      |                 |                   |         | ③ [3] |       |          | 13-72                            |
| Ignition switch-ST <M/T>                                   | ④ [4]          | ③ [4]            |                                   |                        |                            |                 |                   |         |       |       |          | 13-75                            |
| Ignition switch-ST and inhibitor switch <A/T>              | ④ [4]          | ③ [4]            |                                   | ⑥                      |                            |                 |                   |         |       |       |          | 13-76                            |
| Vehicle speed sensor                                       |                |                  |                                   |                        | ⑥                          |                 |                   |         | ⑥     |       |          | 13-78                            |
| Power steering oil pressure switch                         |                |                  |                                   | ③                      |                            |                 |                   |         |       |       |          | 13-80                            |
| Air conditioner switch and power relay                     |                |                  |                                   | ④                      |                            |                 |                   |         |       |       |          | 13-82                            |
| Detonation sensor  |                |                  |                                   |                        |                            |                 |                   |         |       |       | ① [1]    | 13-84                            |
| Electrical load switch                                     |                |                  |                                   | ⑤                      |                            |                 |                   |         |       |       |          | 13-86                            |
| Induction control valve position sensor <Non Turbo>        |                |                  |                                   |                        |                            | ④ [4]           | ⑥ [6]             |         |       |       |          | 13-90                            |
| Oxygen sensor  |                |                  | ⑩                                 |                        |                            |                 |                   |         |       |       |          | 13-94<br><N/T><br>13-98<br><T>   |
| Injectors  | ⑧ [8]          | ② [2]            | ② [2]                             |                        | ③ [3]                      | ② [2]           | ② [2]             | ① [1]   |       | ① [1] |          | 13-101<br><N/T><br>13-105<br><T> |
| Idle speed control servo (stepper motor type)              |                | ④ [5]            | ① [1]                             | ⑦ [3]                  | ② [2]                      |                 |                   |         | ⑨ [7] |       |          | 13-110                           |
| Ignition coil and power transistor                         | ⑦ [7]          |                  |                                   |                        | ⑩ [9]                      |                 | ⑫ [12]            |         | ① [1] |       | ⑤ [5]    | 13-115                           |
| Purge control solenoid valve                               |                |                  | ⑧                                 |                        |                            |                 |                   |         |       |       |          | 13-119                           |
| EGR control solenoid valve <California – Non Turbo, Turbo> |                |                  |                                   |                        |                            | ⑦ [7]           |                   | ⑥ [6]   |       | ④ [4] |          | 13-121                           |
| Fuel pressure control valve <Turbo>                        |                | ⑥                | ⑨                                 |                        | ⑪                          |                 | ④ [4]             |         |       |       |          | 13-123                           |
| Waste gate control solenoid valve <Turbo>                  |                |                  |                                   |                        |                            |                 | ⑤ [5]             |         |       |       |          | 13-126                           |
| Active exhaust control unit <Turbo>                        |                |                  |                                   |                        |                            | ⑥ [6]           | ⑧ [8]             |         |       |       |          | 13-130                           |
| Variable induction control servo (DC motor) <Non Turbo>    |                |                  |                                   |                        |                            | ⑤ [5]           | ⑦ [7]             |         |       |       |          | 13-131                           |
| Anti-lock brake signal <Turbo>                             |                |                  |                                   |                        |                            |                 |                   |         | ⑦     |       |          | 13-133                           |
| Engine and transaxle total control signal <A/T>            |                |                  |                                   |                        |                            |                 |                   |         | ⑧ [6] | ⑤ [5] |          | 13-135                           |
| Fuel pressure  |                | ⑤ [6]            | ④ [4]                             |                        | ⑦ [6]                      | ③ [3]           | ③ [3]             | ② [2]   |       | ② [2] |          | 13-137                           |

○: Warm engine (number inside indicates check order)  
 □: Cold engine (number inside indicates check order)

<N/T>: Non Turbo  
 <T>: Turbo