

## 2001 MY for Pressure Control Solenoid "E" Electrical (Shift Solenoid Valve SLN) Monitor (P1765)

To return to monitor description, see page [Cm-392](#).

### MONITOR STRATEGY

|                             |            |                          |
|-----------------------------|------------|--------------------------|
| Required sensors/Components | Main       | Shift solenoid valve SLN |
|                             | Sub        | None                     |
| Frequency of operation      | Continuous |                          |
| Duration                    | 1 sec.     |                          |
| MIL operation               | Immediate  |                          |
| Sequence of operation       | None       |                          |

### TYPICAL ENABLING CONDITIONS

| Item                                                              |                          | Specification                  |                |
|-------------------------------------------------------------------|--------------------------|--------------------------------|----------------|
|                                                                   |                          | Minimum                        | Maximum        |
| The monitor will run whenever the following DTCs are not present. |                          | See page <a href="#">In-39</a> |                |
| Engine family                                                     | Item                     | Specification                  |                |
|                                                                   |                          | Minimum                        | Maximum        |
| 1MZ-FE (SIENNA, AVALON, ES300)                                    | Condition (A)            |                                |                |
|                                                                   | Battery voltage          | 10 V or more                   | Less than 12 V |
|                                                                   | Target duty              | –                              | Less than 75 % |
|                                                                   | Starter                  | OFF                            |                |
|                                                                   | Condition (B)            |                                |                |
|                                                                   | Battery voltage          | 12 V or more                   | –              |
|                                                                   | Starter                  | OFF                            |                |
|                                                                   | Condition (C)            |                                |                |
|                                                                   | Starter                  | OFF                            |                |
|                                                                   | Condition (D)            |                                |                |
|                                                                   | Battery voltage          | 11 V or more                   | –              |
|                                                                   | Starter                  | OFF                            |                |
|                                                                   | Condition (E)            |                                |                |
|                                                                   | Battery voltage          | 11 V or more                   | –              |
|                                                                   | CPU commanded duty ratio | 19 % or more                   | –              |
|                                                                   | Starter                  | OFF                            |                |
| 1MZ-FE (CAMRY, CAMRY SOLARA)                                      | Condition (A)            |                                |                |
|                                                                   | Battery voltage          | 10 V or more                   | Less than 12 V |
|                                                                   | Target duty              | –                              | Less than 75 % |
|                                                                   | Starter                  | OFF                            |                |
|                                                                   | Condition (B)            |                                |                |
|                                                                   | Battery voltage          | 12 V or more                   | –              |
|                                                                   | Starter                  | OFF                            |                |
|                                                                   | Condition (C)            |                                |                |
|                                                                   | Starter                  | OFF                            |                |

## Component T/M Outputs – Solenoid

|                |                          |              |   |
|----------------|--------------------------|--------------|---|
| 2JZ-GE, 3UZ-FE | Battery voltage          | 11 V or more | – |
|                | CPU commanded duty ratio | 19 % or more | – |
|                | Starter                  | OFF          |   |

## TYPICAL MALFUNCTION THRESHOLDS

| Engine family                  | Detection criteria       | Threshold      |
|--------------------------------|--------------------------|----------------|
| 1MZ-FE (SIENNA, AVALON, ES300) | <b>Condition (A)</b>     |                |
|                                | Output signal duty       | 100 % or more  |
|                                | <b>Condition (B)</b>     |                |
|                                | Output signal duty       | 100 % or more  |
|                                | <b>Condition (C)</b>     |                |
|                                | Output signal duty       | 3 % or less    |
|                                | <b>Condition (D)</b>     |                |
|                                | Solenoid current         | 330 mA or less |
|                                | <b>Condition (E)</b>     |                |
|                                | Solenoid current         | 330 mA or less |
| 1MZ-FE (CAMRY, CAMRY SOLARA)   | <b>Condition (A)</b>     |                |
|                                | Output signal duty ratio | 100 % or more  |
|                                | <b>Condition (B)</b>     |                |
|                                | Output signal duty ratio | 100 % or more  |
|                                | <b>Condition (C)</b>     |                |
|                                | Output signal duty ratio | 3 % or less    |
| 2JZ-GE, 3UZ-FE                 | Solenoid current         | 330 mA or less |