

## 2002 MY for Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve SLT) Monitor (P1760)

To return to monitor description, see page [Cm-383](#).

### MONITOR STRATEGY

|                             |            |                          |
|-----------------------------|------------|--------------------------|
| Required sensors/Components | Main       | Shift solenoid valve SLT |
|                             | 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, 2AZ-FE, 3UZ-FE (LS430, GS430), 2JZ-GE, 2ZZ-GE, 1ZZ-FE (CELICA), 1AZ-FE, 2UZ-FE, 1NZ-FE | Solenoid current shout OFF | NOT shut OFF                   |                |
| 1MZ-FE, 2AZ-FE, 3UZ-FE, 2JZ-GE, 2ZZ-GE, 1ZZ-FE (CELICA), 1AZ-FE, 2UZ-FE, 1NZ-FE, 5VZ-FE        | Battery voltage            | 11 V or more                   | —              |
| 1MZ-FE, 2AZ-FE, 3UZ-FE, 2JZ-GE, 2ZZ-GE, 1ZZ-FE (CELICA), 1AZ-FE, 2UZ-FE                        | CPU commanded duty ratio   | 19 % or more                   | —              |
| 1MZ-FE, 2AZ-FE, 3UZ-FE, 2JZ-GE, 2ZZ-GE, 1ZZ-FE (CELICA), 1AZ-FE, 2UZ-FE, 1NZ-FE                | Starter                    | OFF                            |                |
| 1ZZ-FE (COROLLA)                                                                               | <b>Condition (A)</b>       |                                |                |
|                                                                                                | Battery voltage            | 10 V or more                   | Less than 12 V |
|                                                                                                | Target duty                | —                              | Less than 75 % |
|                                                                                                | Starter                    | OFF                            |                |
|                                                                                                | <b>Condition (B)</b>       |                                |                |
|                                                                                                | Battery voltage            | 12 V or more                   | —              |
|                                                                                                | Starter                    | OFF                            |                |
|                                                                                                | <b>Condition (C)</b>       |                                |                |
|                                                                                                | Starter                    | OFF                            |                |
|                                                                                                | <b>Condition (D)</b>       |                                |                |
|                                                                                                | CPU commanded duty ratio   | 100 % or more                  | —              |

## TYPICAL MALFUNCTION THRESHOLDS

| Engine family                                                                                  | Detection criteria        | Threshold                  |
|------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| 1MZ-FE, 2AZ-FE, 3UZ-FE (GS430, LS430), 2JZ-GE, 2ZZ-GE, 1ZZ-FE (CELICA), 1AZ-FE, 2UZ-FE, 1NZ-FE | Diagnostic signal from IC | Fail                       |
| 5VZ-FE                                                                                         | Output signal duty ratio  | 19 % or more               |
| 3UZ-FE (SC430)                                                                                 | Output signal level       | Constant High or Low level |
| 1ZZ-FE (COROLLA)                                                                               | <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>      |                            |
|                                                                                                | Output signal duty        | > 3 % and < 100 %          |
| 1NZ-FE                                                                                         | Target current            | 0.1 A or more              |