

## 2003 MY Accelerator Pedal Position Sensor Range/Performance Monitor (P2121)

To return to monitor description, see page [Ce-61](#).

### MONITOR STRATEGY

|                             |                |                          |
|-----------------------------|----------------|--------------------------|
| Required sensors/Components | Main           | Throttle position sensor |
|                             | Sub            | None                     |
| Frequency of operation      | Continuous     |                          |
| Duration                    | Within 10 sec. |                          |
| MIL operation               | Immediate      |                          |
| Sequence of operation       | None           |                          |

### TYPICAL ENABLING CONDITIONS

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| The monitor will run whenever the following DTCs are not present | See page <a href="#">In-39</a> |
| Included in the Typical Malfunction Thresholds                   | —                              |

### TYPICAL MALFUNCTION THRESHOLDS

| Engine Family                                        | Detection Criteria                                                   | Threshold         | Typical Enabling Condition                                                                                         |
|------------------------------------------------------|----------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------|
| 2JZ-GE, 5VZ-FE and 1ZZ-FE<br>MR2 (SMT)               | Difference between VPA1 and VPA2                                     | Less than 0.4 V   | None                                                                                                               |
|                                                      |                                                                      | More than 1.2 V   |                                                                                                                    |
|                                                      |                                                                      | Less than 0.34 V  | VPA2 is less than 4.84 V                                                                                           |
|                                                      | Difference VPA1 angle and VPA2 angle when accelerator pedal released | 0.97° or more     | <ul style="list-style-type: none"> <li>• Accelerator pedal released</li> <li>• VPA2 is less than 4.84 V</li> </ul> |
| 2AZ-FE, 1GR-FE, 1MZ-FE,<br>2UZ-FE, 3UZ-FE and 2ZZ-GE | Difference between VPA1 and VPA2                                     | Less than 0.4 V   | None                                                                                                               |
|                                                      |                                                                      | More than 1.2 V   |                                                                                                                    |
|                                                      |                                                                      | Less than 0.385 V | VPA2 is less than 4.84 V                                                                                           |
|                                                      | Difference VPA1 angle and VPA2 angle when accelerator pedal released | 0.97° or more     | <ul style="list-style-type: none"> <li>• Accelerator pedal released</li> <li>• VPA2 is less than 4.84 V</li> </ul> |