

# SERVICE BULLETIN

Classification:

EL02-035

Reference:

NTB02-100

Date:

October 2, 2002

## TIRE PRESSURE MONITOR SYSTEM (TPMS) WARNING LIGHT FLASHES OR STAYS ON

**APPLIED VEHICLES:** 2003 350Z (Z33), equipped with TPMS

2003 Pathfinder (R50), equipped with TPMS

### SERVICE INFORMATION

If the TPMS Warning Light (see Figure 1) flashes or stays ON, please use the "TPMS Diagnostic Chart" (page 2) to resolve the incident.

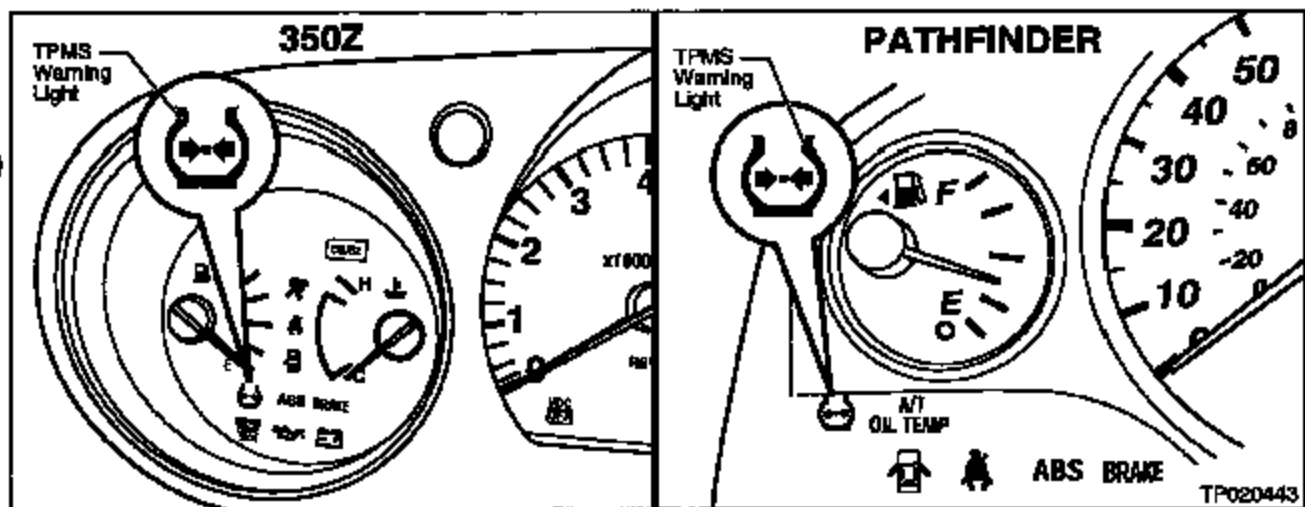

















Figure 1

## TPMS Diagnostic Chart

Diagnosis Item	Symptom (with key ON)	TPMS Warning Light	Cause	Action
Warning Light (Instrument panel)	Warning light immediately comes ON and turns OFF after 1 second	  ON 1 sec > stays OFF	All wheel transmitters are "activated" (working)	None (system OK)
	Warning light blinks ON for 2 seconds, then turns OFF for 0.2 seconds - repeats	 Blinks:  ON 2 sec > OFF 0.2 sec	All wheel transmitters are NOT activated	Activate all wheel transmitters. See "Wheel Transmitter ("Wake Up") Activation Procedure" on page 4.
	Warning light blinks 1 time	 Blinks 1 time ON 0.3 sec > OFF 1.3 sec	LF wheel transmitter is NOT activated	Activate LF wheel transmitter. See "Wheel Transmitter ("Wake Up") Activation Procedure" on page 4.
	Warning light blinks 2 times	  Blinks 2 times ON 0.3 sec > OFF 0.3 sec	RF wheel transmitter is NOT activated	Activate RF wheel transmitter. See "Wheel Transmitter ("Wake Up") Activation Procedure" on page 4.
	Warning light blinks 3 times	   Blinks 3 times ON 0.3 sec > OFF 0.3 sec	RR wheel transmitter is NOT activated	Activate RR wheel transmitter. See "Wheel Transmitter ("Wake Up") Activation Procedure" on page 4.
	Warning light blinks 4 times	    Blinks 4 times ON 0.3 sec > OFF 0.3 sec	LR wheel transmitter is NOT activated	Activate LR wheel transmitter. See "Wheel Transmitter ("Wake Up") Activation Procedure" on page 4.
	Warning light comes ON and does NOT turn OFF	 Comes ON and stays ON	<p>Long Term Storage Fuse pulled out</p> <p>TPMS ECU connector pulled out</p> <p>Low tire pressure or TPMS system failure</p>	<p>Check storage fuse, see Figure 2, page 4. Install or replace (if needed).</p> <p>Check TPMS ECU connector. Re-connect if needed.</p> <ul style="list-style-type: none"> <li>Perform CONSULT Self Diagnosis: <ul style="list-style-type: none"> <li>Press "Start"</li> <li>Press "Tire Pressure Monitor System MENU select"</li> <li>Press "Self Diagnosis MENU select"</li> <li>Press "Start"</li> </ul> </li> <li>See Service Manual</li> <li>Perform ID Registration if needed</li> </ul>
Parking Lights	Parking lights do NOT flash 2 times after transmitter activation.		<ol style="list-style-type: none"> <li>Tool J-45295 battery low.</li> <li>Ignition OFF during activation.</li> <li>Tool J-45295 not positioned correctly.</li> <li>Transmitters already activated</li> </ol>	<ol style="list-style-type: none"> <li>Install new battery.</li> <li>Make sure Ignition is ON during activation.</li> <li>Position tool correctly during activation (see Figure 4).</li> <li>None.</li> </ol>

**NOTE:** If more than one wheel transmitter is NOT activated, the blinking patterns for those wheels will combine. (Example: one blink/OFF/three blinks = LF and RR transmitters are not activated.)

**CAUTION (for Pathfinder ONLY):**

- Do NOT remove the Long Term Storage Fuse with the Ignition key in the ON position.
- If the storage fuse is removed with the Ignition key ON, the Wheel Transmitter ("Wake Up") Activation procedure must be done.

**IMPORTANT INFORMATION:****I.D. Registration:**

- Informs the control unit of each wheel transmitter's location (i.e., LF, RF, RR, and LR).
- The control unit must know the location of each transmitter in order to correctly relay pressure information about each tire/wheel.

**Transmitter ("Wake Up") Activation:**

- Turns on ("Wakes Up") each wheel transmitter allowing it to send pressure information to the control unit.

The following chart shows some conditions, which may require I.D. Registration and/or Transmitter ("Wake Up") Activation.

Condition	Action
If a TPMS control unit is replaced	Perform I.D. Registration using CONSULT-II. See the Service Manual for more information.
If a wheel transmitter is replaced	<ul style="list-style-type: none"> <li>• Perform I.D. Registration using CONSULT-II. See the Service Manual for more information.</li> <li>• Perform Transmitter ("Wake Up") Activation using Tool #J-45295.</li> </ul>
TPMS warning light is blinking or stays ON	<p>See TPMS Diagnostic Chart (page 2) for details.</p> <p><b>Note:</b> I.D. Registration cannot be performed when the TPMS warning light is blinking or ON (in some cases). See TPMS Diagnostic Chart.</p>

**NOTES:**

- 1) In the case of a low tire pressure condition, the TPMS warning light will come on. To turn the light OFF, do the following:
  - Re-set the tire pressure to the correct setting
  - Drive the vehicle over 20 MPH for several minutes
- 2) The wheel transmitters send updated pressure information to the control unit as follows:
  - Vehicle parked with ignition switch ON
    - Updated pressure information sent every hour \*
  - Vehicle driven over 20 MPH
    - Updated pressure information sent every minute
  - Vehicle parked with ignition switch OFF
    - No pressure information sent to control unit and CONSULT-II indicates "0" pressure

\* To update pressure information quicker, drive the vehicle over 20 MPH for a few minutes.

## SERVICE PROCEDURE

### Wheel Transmitter ("Wake Up") Activation Procedure

This procedure must be performed using the TPMS Initialization Tool #J-45295.

#### IMPORTANT INFORMATION WHEN PERFORMING THIS ACTIVATION PROCEDURE:

- Do **NOT** remove the "Long Term Storage Fuse" (also known as the "Electronic Parts Fuse").
  - Do **NOT** turn the ignition switch to the **OFF** position.
  - If you do **either** of the above, all four wheel transponders will have to be re-activated.
1. **Make sure** the batteries in the TPMS Initialization Tool #J-45295 are in good, strong condition. If needed, use a tester to check battery condition.
  2. **Confirm** the "Long Term Storage Fuse" is installed in the vehicle's fuse panel (see Figure 2).

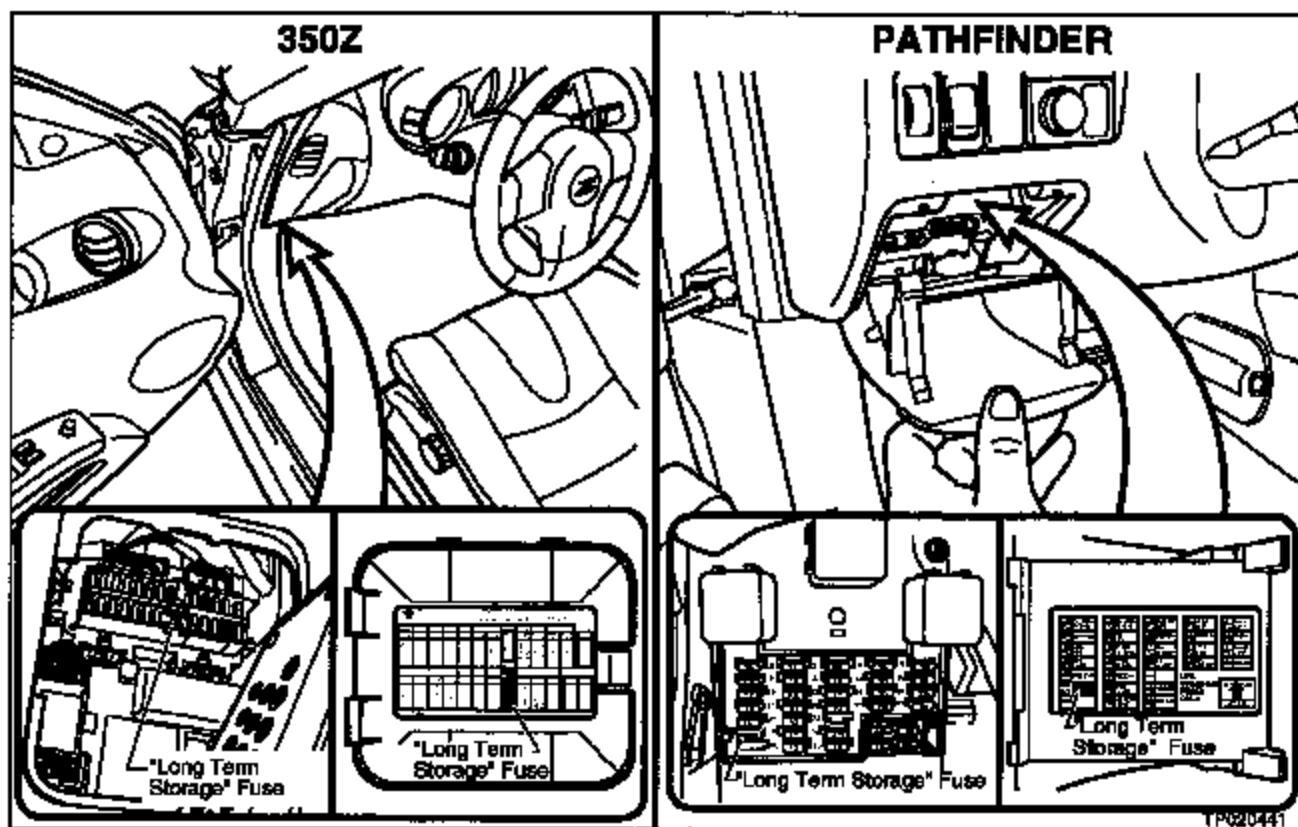


Figure 2

3. Turn the ignition switch to the **ON** position.

**IMPORTANT:** The wheel transmitters must be activated in the order shown in Figure 3.

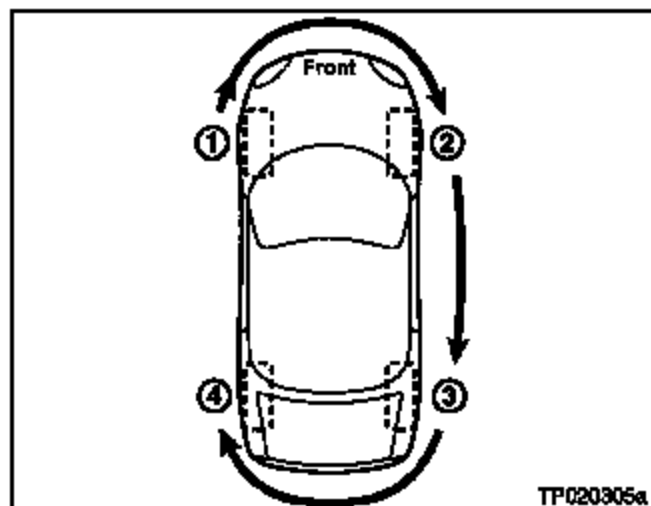


Figure 3

4. Position the TPMS Initialization Tool on the tire and center it with the valve stem (see Figure 4).

**NOTE:** Do **NOT** position the TPMS Initialization Tool on the wheel.

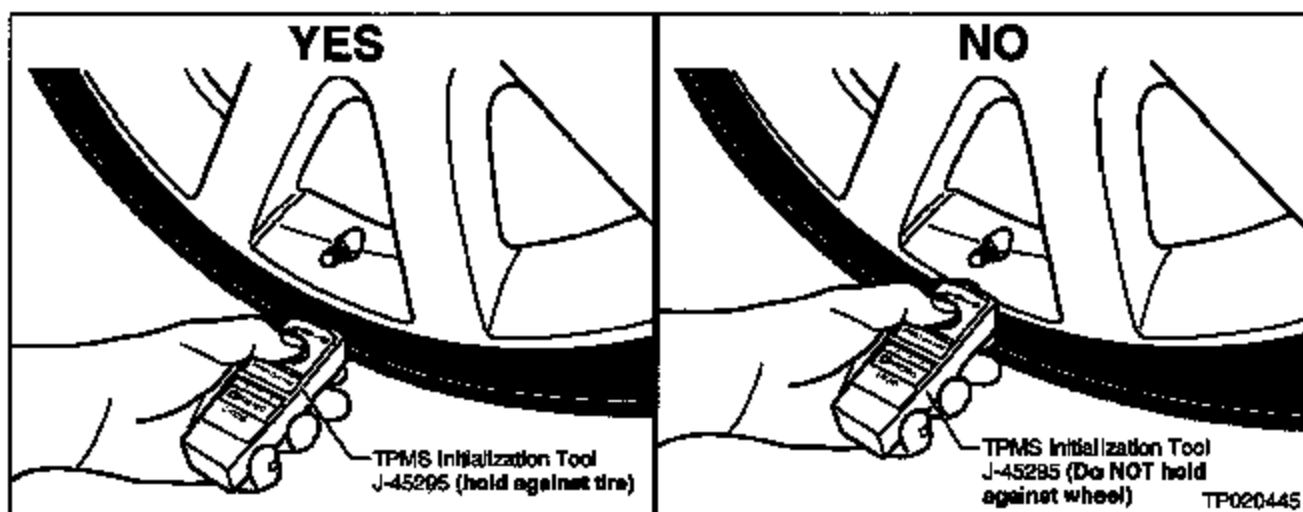


Figure 4

5. Press the button on the TPMS Initialization Tool and hold the tool in position until the vehicle parking lights flash twice.
- This could take up to 15 seconds.
  - The flashes confirm the wheel transmitter (you are working on) is activated.
6. Perform step 5 on the remaining wheel transmitters in the order shown in Figure 3.
7. Confirm the TPMS warning light turns **OFF** after the last wheel transmitter is activated.
8. Turn the ignition key **OFF**, then **ON** and confirm the TPMS Warning Light does the following:
- Comes **ON** for 1 second, then
  - Turns **OFF** and stays **OFF**

## CLAIMS INFORMATION

Submit a Primary Operation (PO) line claim using the following claims coding:

DESCRIPTION	OP CODE	SYM	DIA	FRT
Initialize Tire Pressure Warning System	PX06AA	HC	32	0.2 hrs

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