



# SERVICE BULLETIN

Classification: WT08-003	Reference: NTB08-033	Date: March 11, 2008
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## TIRE PRESSURE INFORMATION

**APPLIED VEHICLES:** All Nissan

### SERVICE INFORMATION

The air pressure inside a tire can change due to several factors, such as:

- Ambient temperature change
- Tire temperature change due to driving conditions
- Altitude change
- Natural pressure loss over time

It is important that tire pressure be checked often to keep it at the specified setting, especially after seasonal temperature changes.

Any of the above factors can contribute to low tire pressure. Low tire pressure can cause a Tire Pressure Monitor System (TPMS) to turn ON the Low Tire Pressure Warning Light (if equipped). **However, this does not mean that the TPMS is not operating as designed.**

Each vehicle is equipped from the factory with a TIRE AND LOADING INFORMATION label.

This label lists the COLD tire pressure setting for the original tires on the specific vehicle.

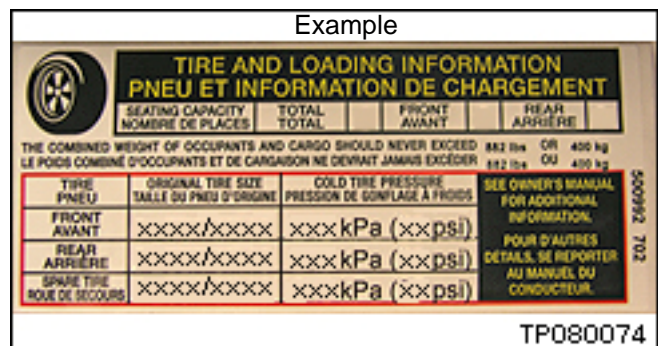


Figure 1

**NOTE:** Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

**When setting / adjusting tire pressure, use the following information for reference:**

**Temperature:**

- Tire pressure changes about 0.6 psi (4.1 KPa) for every 10°F (5.5°C) of temperature change.
- Tire pressure may change significantly between a Cold reading and a reading taken just after the vehicle has been driven for several miles.
- Seasonal temperature change can result in tire pressure that is low enough to cause a Tire Pressure Monitor System (TPMS) to turn ON the Low Tire Pressure Warning Light (if equipped).

This table shows an example of approximate tire pressure decrease as temperature decreases with Tire pressure set to 35 psi (241.3 KPa) at 80°F (26.6° C)

Temperature		Tire Pressure		Tire Pressure Decrease	
Degree F	Degree C	PSI	KPa	PSI	KPa
80	26.6	35.0 (set pressure)	241.3 (set pressure)	0.0	0.0
70	21.1	34.4	237.2	0.6	4.1
60	15.5	33.7	232.4	1.3	8.9
50	10	33.1	228.2	1.9	13.1
40	4.4	32.4	223.4	2.6	17.9
30	-1.1	31.8	219.3	3.2	22.0
20	-6.6	31.1	214.4	3.9	26.9
10	-12.2	30.5	210.3	4.5	31.0
0	-17.7	29.8	205.5	5.2	35.8

**NOTE:** The values in this table are for example only, they may vary due to differences in tire size, atmospheric condition (pressure and humidity) and temperature.

**Natural tire pressure loss over time:**

- Vehicle tire pressure will naturally decrease about 3% to 5% per month, although this may vary due to seasonal temperature change.
- After 6 to 8 months tire pressure may be low enough to cause a Tire Pressure Monitor System (TPMS) to turn ON the Low Tire Pressure Warning Light (if equipped).

This table is an example of approximate natural tire pressure decrease over time when tire pressure is set to 35 psi (241.3 KPa).

Months	Tire Pressure	
	PSI	KPa
	35.0 (set pressure)	241.3 (set Pressure)
1 month	34.0 – 33.3	234.4 - 229.6
2 months	32.9 – 32.3	226.8 – 222.7
3 months	31.9 – 31.3	219.9 – 215.8
4 months	31.0 – 30.1	213.7 – 207.5
5 months	30.1 – 29.4	207.5 – 202.7
6 months	29.2 – 28.6	201.3 – 197.2
7 months	27.7 – 26.7	191.0 – 184.1
8 months	27.4 – 26.9	188.9 – 185.5

**NOTE:** The values in this table are for example only, they may vary due to differences in tire size, atmospheric condition (pressure and humidity) and temperature.

## Altitude:

- Tire pressure changes about 1.0 psi (6.9 KPa) for every 1,813 ft (553m) of altitude change.
- If a vehicle is driven to a higher altitude after the tire pressure is set, the tire pressure may become low enough to cause a Tire Pressure Monitor System (TPMS) to turn ON the Low Tire Pressure Warning Light (if equipped).

This table is an example of approximate tire pressure change as altitude changes when tire pressure is set to 35 psi (241.3 KPa)

	Altitude Change		Tire Pressure		Tire Pressure Change	
	Feet	Meters	PSI	KPa	PSI	KPa
Altitude Increase	10,000	3,048	29.47	203.2	-5.53	-38.1
	7,500	2,286	30.86	212.8	-4.14	-28.5
	5,000	1,524	32.24	222.3	-2.76	-19.0
	3,000	914	33.34	229.9	-1.66	-11.4
	2,000	610	33.89	233.7	-1.11	-7.6
	1,500	457	34.17	235.6	-0.83	-5.7
	1,000	305	34.45	237.5	-0.55	-3.8
	500	152	34.72	239.4	-0.28	-1.9
				35.00 (set pressure)	241.3 (set pressure)	0.0
Altitude Decrease	500	152	35.28	243.2	+0.28	+1.9
	1,000	305	35.55	245.1	+0.55	+3.8
	1,500	457	35.83	247.0	+0.83	+5.7
	2,000	610	36.11	249.0	+1.11	+7.7
	3,000	914	36.66	252.8	+1.66	+11.5
	5,000	1,524	37.76	260.3	+2.76	+19.0
	7,500	2,286	39.14	269.9	+4.14	+28.6
	10,000	3,048	40.53	279.4	+5.53	+38.1

**NOTE:** The values in this table are for example only, they may vary due to differences in tire size, atmospheric condition (pressure and humidity) and temperature.

**NOTE:** For vehicles equipped with a Low Tire Pressure Warning Light, if the light comes ON:

- Tire pressure must be adjusted/corrected (see example in the table below) before the light will go OFF.
- After correcting the tire pressure, the vehicle may need to be driven at a speed of more than 25 mph for several minutes before the light will go OFF.

Specified pressure	Warning light comes ON	Warning light goes OFF
35 psi (240KPa)	Below 27.5 psi (189.6 KPa)	Above 33.5 psi (231.0 KPa)
33 psi (230KPa)	Below 26.5 psi (182.7 KPa)	Above 32.0 psi (220.6 KPa)