

April 1, 2010

Subject: **Drive Belt Tension Specification Change**No. **2010-6****REVISION ▶ 1 ◀**
▶ April 27, 2010 ◀

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2008 / 2009	Spyder GS	All	All
2010	Spyder RS Spyder RT		

▶ Underlined text(s) between arrows is (are) added element(s) to the previous publication. ◀

SITUATION

We have observed several Spyderys in the field with belt tensions either too high or too low.

Therefore we have changed our drive belt tension to a value that is easier to maintain and reduced the complexity of the tension adjustment procedure.

In order to simplify and standardize these, we will have only one procedure and tension specification for all models and years. This specification and procedure will be used from now on for all 2008, 2009 and 2010 models.

It is important that new units at PDI are adjusted using this procedure and specification prior to delivery. It is also important that vehicles in for service or inspection are updated using this procedure and new specification.

Belt alignment procedures remain the same.

PROCEDURES

Drive Belt Tension Verification

NOTICE Always verify drive belt tension with all parts at room temperature and the rear wheel lifted of the ground.

1. Place vehicle on a level surface.

NOTE: The area must be protected against wind and must have a very low background noise.

2. Set transmission to NEUTRAL.

3. Lift rear of vehicle by the frame until rear wheel is off the ground.

NOTICE Do not lift under rear shock absorber. Always lift by the frame. Refer to illustration.



TYPICAL - LIFT BY THE FRAME

4. To check the drive belt tension use the BELT TENSION METER (P/N 529 036 115).



5. Enter the following specifications to program the meter.

MASS	WIDTH	SPAN
8.4 g/m	28.0 mm/R	1028 mm



SONIC TENSION METER DISPLAY

NOTE: Refer to the manufacturer's instructions to set the informations into the device.

6. Turn rear wheel to align a wheel spoke with the swing arm.



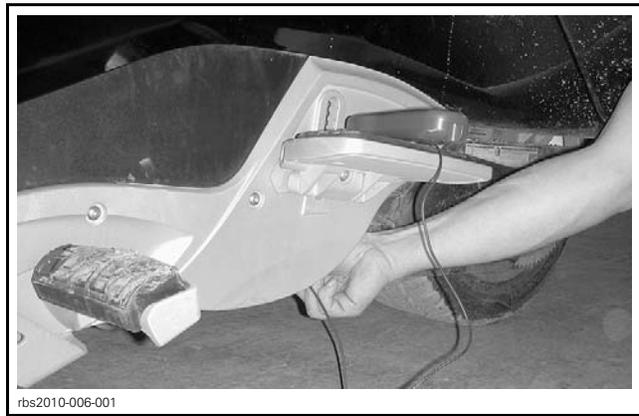
TYPICAL - SWING ARM ALIGNS WITH A SPOKE

7. Hold the sonic tension meter sensor approximately 1 cm (1/2 in) from belt or closer without touching the belt.

- On Spyder GS/RS, position the sensor behind the LH passenger footrest.
- On Spyder RT, position the sensor under the LH passenger footrest.



SPYDER GS/RS



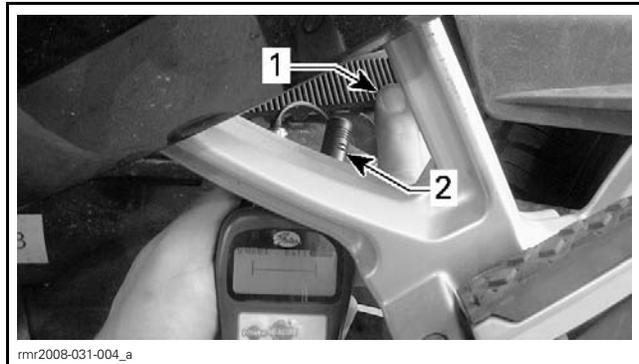
SPYDER RT

8. Tap the belt to make the belt vibrate and read the measurement.

9. Take a second measurement to confirm the first one.

10. Note the first value obtained at step 8 if the measurement at step 9 is within $\pm 25N$.

NOTE: If the second value is not within $\pm 25N$, repeat steps 8 and 9.



TYPICAL - SPYDER RS SHOWN

1. Tap the belt
2. Sonic tension meter sensor

11. Repeat measurements at every spoke (3 spokes total).

The average of the 3 obtained values (at the 3 spokes) must be within the following range:

DRIVE BELT TENSION (PARTS AT ROOM TEMPERATURE AND REAR WHEEL LIFTED)
450N \pm 150N

If the tension of drive belt is out of specification, adjust drive belt as per *DRIVE BELT TENSION ADJUSTMENT*. Refer to *DRIVE SYSTEM* section in the proper *CAN-AM ROADSTER SHOP MANUAL*.

► **BELT TENSION METER** **DECAL**◄

► We created a decal to affix, as a reminder, on your BELT TENSION METER (P/N 529 036 115).

To install the decal (P/N 529 036 191), clean the battery cover with isopropyl alcohol and let dry thoroughly. Then, apply the decal on the battery cover as shown.



► **SHOP MANUAL** **MODIFICATION**◄

► You must update your shop manuals by sticking provided labels over drive belt tension tables in proper pages to your existing shop manuals.

NOTE: To print more decals, use Avery® template #5366.

► **Shop Manual 2008 Spyder GS** **(P/N 219 100 283)**◄

► Replace tables on pages 332 and 333◄

► **Shop Manual 2008-2009** **Spyder GS SM5/SE5 (P/N 219** **100 327)**◄

► Replace tables on pages 418 and 419◄

► **Shop Manual 2010 Spyder RT** **(P/N 219 100 404)**◄

► Replace table on page 483◄

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