

## SUBJECT: A/C Belt and A/C Belt Tensioner Noise

Department: Service Section: Accessories Model(s): GH7 Model Year(s): 2011 & 2012 Effective Date: May 2, 2011 Form #: AC-10 Rev #: N/A Supersedes: N/A

**SERVICE INFORMATION:** When belt noise occurs from the A/C belt, replace both the A/C belt and A/C belt tensioner. The procedure below must be followed to properly install the belt tensioner.

## REMOVAL OF A/C BELT AND TENSION PULLEY:

- 1. Loosen center nut of the A/C tension pulley.
- 2. Loosen adjusting bolt for A/C belt to loosen belt tension.
- 3. Remove A/C belt from all pulleys.
- 4. Remove A/C tension pulley bracket assembly from engine.

## INSTALLATION OF NEW A/C BELT AND TENSION PULLEY:

- 1. Bolt tension pulley to engine reusing bolts that were removed previously. (Torque bolts 29.5 ft lbs. [48 Nm])
- 2. Install A/C belt to crankshaft pulley then A/C compressor and lastly to the tension pulley.
- 3. Tighten tension pulley center nut temporarily to (5.9 ft lbs. [8 Nm])
- 4. Turn the adjusting bolt for the A/C belt checking tension as you are turning nut clock wise. (Refer to table 1 for adjustment tension of belt)
- After adjusting the A/C belt to its proper tension, tighten A/C tension pulley nut to (22.5 28.9 Ft Lbs. [30.4 39.2 Nm])
- 6. After the A/C belt and tension pulley is adjusted turn engine over and check alignment of drive belt and recheck tension of belt and tension pulley center nut torque.
- 7. If after following the above procedure the A/C belt is not tensioned properly repeat steps 4 thru 6 including loosening the tension pulley center nut.

Belt	Measurement by sonic tension meter				(Reference data)	
	Belt tension (Frequency)	Number of ribs	Span length	Unit mass of the belt	Belt tension by spring loaded tension meter	Belt deflection 22lbf (98N) by depressing
	[Hz]		[in (mm)]	[gf / rib.m]	[lbf (N)]	[in (mm)]
When New	202~216	- 4	10.7 (272)	14.5	158 - 180 (700~800)	0.32 - 0.36 (8.2~9.1)
When adjusted	175~187				118 - 135 (525~600)	

## Table 1. Regulated belt tension