

Rattle Noise from Engine Bay

Affected Units: Models: Serial Numbers: 07273 311000001 – 312000531 07279 311000001 – 312000689 07266TC 311000001 – 312000252 07273TC 311000001 – 312000460	Product: Workman [®] MD & MDX		Aug 23, 2012
07279 31100001 – 312000689 07266TC 31100001 – 312000252	Affected Units:	Models:	Serial Numbers:
07266TC 311000001 – 312000252		07273	311000001 - 312000531
		07279	311000001 - 312000689
07273TC 311000001 – 312000460		07266TC	311000001 – 312000252
		07273TC	311000001 – 312000460

Situation:

A rattling noise coming from the engine bay area may be caused by the Starter / Generator (S/G) Pulley – Drive (119-9482) not being secured by the torqued nut. It has been determined that the hub of the Pulley can be too thin (see image below) which causes the S/G Nut (119-9651) to bottom out on the taper of the Armature shaft of the S/G before it can secure the Pulley. This loose Pulley can then wobble, and make a rattling noise.



Instructions:

Park the vehicle on a level surface, stop the engine, set the parking brake and remove the ignition key. Raise the Cargo box and secure it in place with the prop rod to gain access to the S/G. Loosen the Pivot Bolt / Flange Nut and Carriage Bolt / Lock Nut that secure the S/G, but do not remove them. Remove the S/G Belt from the S/G Pulley. Remove the S/G Nut (119-9651) (RH thread), S/G Washer-Lock (119-9652), and S/G Pulley – Drive (119-9482). Inspect the Armature (119-9658) shaft and Key-Woodruff (119-9657) for damage and replace as needed (follow the steps to replace the Armature as detailed on section 6, page 18 of the



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Workman MD/MDX Service Manual). Inspect the Pulley for any damage. If damage is present, replace the Pulley with Pulley – Drive (121-6277) which has a thicker hub.

If in doubt about the fit of the original Pulley (119-9482), add an 11/16" I.D. Washer / Spacer (107-4293) onto the starter shaft before the S/G Pulley, and reinstall the S/G Washer-Lock (119-9652) & Nut (119-9651). Torque the nut to **15 to 25 ft. – Ibs. (21 to 33 N-m).**

NOTE: We recommend using a strap wrench to hold the pulley in place when removing or torqueing the nut.

Install the S/G Belt and tighten the Pivot Bolt / Flange Nut and Carriage Bolt / Lock Nut that secure the S/G once the Belt is properly tensioned. Release the prop rod and lower the Cargo Box. Release the parking brake and test-drive the vehicle to see if the noise is still present.

If the noise is alleviated, no further action is required. If the noise continues, suspect another part (e.g., Primary Clutch) or call your local TORO Distributor.

NOTE: The Online Parts Catalogs will be changed to add the Washer / Spacer listed in the bulletin.

Direct any questions regarding this repair to your local TORO Distributor.