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Service Update #26-0603

Alternator "Decoupler" Pulley





“OAD” – Overrunning Alternator Decoupler Found on 7.3L Ford Gasoline & LPG Units

During the last Central Chapter meeting of the New York Head Mechanics Association meeting held at the Chittenango Central School Transportation Center, John Dhayer mentioned the fact that they had gone to replace an alternator and popped off the plastic cap on the pulley to find there was no nut holding the pulley on, just a large allen-head key. After researching he found a “Decoupler Pulley Tool” at the local auto parts store and changed the pulley.

A little background:

A decoupler pulley, also known as an Overrunning Alternator Decoupler (OAD), is a one-way clutch mounted on the alternator. Its primary function is to decouple the alternator from the engine’s rotational pulses, allowing the alternator rotor to spin independently when necessary. This reduces drag on the engine, improves fuel efficiency, and decreases wear on the serpentine belt.

**Please use the following steps when replacing
the OAD**



1. START THREADS OF THE OAD ONTO THE ALTERNATOR SHAFT BY HAND, ENSURING OAD IS NOT CROSS THREADING.



2. FULLY THREAD THE OAD ONTO THE ALTERNATOR SHAFT BY HAND, SO THAT THE SHAFT /SPACER IS FULLY SEATED TO THE ALTERNATOR DATUM SURFACE. EXERCISE CAUTION AS THE ROTOR MAY ALSO TURN.



3. HOLD THE OAD WITH THE BOX WRENCH AND THE ADAPTOR FOR THE OAD SHAFT. TIGHTEN UP THE ALTERNATOR SHAFT WITH THE TORQUE WRENCH AND THE ADAPTOR FOR THE ALTERNATOR SHAFT UNTIL THE TORQUE SPECIFIED ON SHEET ONE IS REACHED.

Torque Should Be Set To 48-62 ft./lbs.



4. ENSURE THAT THE SEAL GROOVE, THE SEAL CAP AND THE END OF THE OAD SHAFT ARE FREE FROM DEBRIS AND/OR OTHER CONTAINMENTS. ENSURE THAT THE SEAL CAP IS INTACT WITH NO CUTS OR TEARS TO THE SEALING LIP. PLACE THE SEAL CAP CENTERED ON THE END OF THE PULLEY INSIDE THE GROOVE WITH THE CORRECT ORIENTATION OF THE CAP.

PUSH THE SEAL CAP DOWN INTO THE GROOVE BIT BY BIT AROUND THE WHOLE CIRCUMFERENCE UNTIL IT IS COMPLETELY SNAPPED INTO THE GROOVE. DO NOT BEND THE CAP.



5. PERFORM A VISUAL AND TACTILE CHECK WHETHER THE SEAL CAP WITH ITS MOST OUTSIDE PART - THE SEAL LIP - IS EVENLY AND SECURELY SEATED IN THE GROOVE.

“OAD”- OVERRUNNING ALTERNATOR DECOUPLER PULLEY

PART #10064716

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