

Revised Timing Chain Design For 2000-2003 GM 2.2L VIN D & F Engines

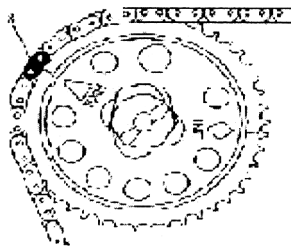
The AERA Technical Committee offers the following information regarding a revised timing chain design for 2000-2003 GM 2.2L VIN D & F engines. This change was implemented to improve oiling of the timing chain.

Affected Models:

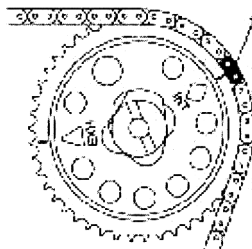
2000-2003 Saturn L-Series with 2.2L Engine (VIN F - RPO L61)
2002-2003 Saturn VUE with 2.2L Engine (VIN D - RPO L61)
2003 Saturn ION Vehicles

The purpose of this bulletin is to communicate updated service procedures to the timing chain and timing chain oiling nozzle, due to design changes that have been made to both components. All GM timing chain kits now available in service will include the oiling nozzle.

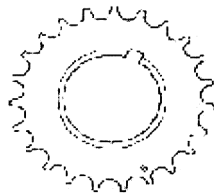
This new nozzle has higher flow rate characteristics that will increase oil flow to the timing chain under low RPM operating conditions. When replacing a timing chain, it is important to replace the oiling nozzle.



**Left Gear
@ 10 O'Clock**



**Right Gear
@ 2 O'Clock**



Crank Gear @ 5:00 O'Clock

Prior edition service manuals for the above listed vehicles refer to the timing chain index links being colored "silver" and "copper." With the implementation of the newer design chain and oiling assembly, the index link colors have been changed. In order to avoid confusion, the service procedure text has been modified to refer to the index links as two common colored and one unique colored link.