

Ticking or pulsing noise from high-pressure pump and fuel injectors

Topic number	LI07.02-P-054717
Version	1
Design group	07.02 Injection pump, unit pump, high pressure pump
Date	10-14-2012
Validity	All engines 276 / 278 / 157 / 152.
Reason for change	
Reason for block	

Complaint:

High-frequency ticking or pulsing noise from high-pressure pump and/or fuel injectors.

Cause:

For high-pressure pump:

Pump lifting piston inlet in piston seat.

For fuel injectors:

Closing noise of injector tips following injection.

This noise described in both instances is the normal sound level of components, characteristic to the high-pressure injection system.

Remedy:

In the event of any noise complaints a reference vehicle must be used for comparison to assess the actual noise level.

Compare the noise in similar condition with or without foam enclosure for the high-pressure pump, with the engine hood closed, outside and from the inside the cabin.

Refer to general procedures and documentation related to engine complaints.

In cases of abnormal noise levels, please obtain a noise recording and contact DTS.

Symptoms
Power generation / Engine noise / Ticking
Power generation / Engine noise / Knocking/clacking
Power generation / Engine noise / Clattering
Power generation / Engine noise / Rings/knocks

Validity		
Vehicle	Engine	Transmission
*	276	*
*	278	*
*	157	*

*	152	*
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Full model designation breakdown		
Vehicle	Engine	Transmission
166.055	276.955	722.906
166.057	276.955	722.906
166.058	276.955	722.906
166.073	278.928	722.909
166.073	278.928	725.031
166.073	278.928	725.032
166.074	157.982	722.905
166.074	157.982	722.931
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.874	157.982	722.905
166.874	157.982	722.931
172.457	276.956	722.906
172.475	152.980	722.909
204.055	276.957	722.906
204.057	276.957	722.906
204.080	276.957	722.960
204.088	276.957	722.960
204.257	276.957	722.906
204.357	276.957	722.906
204.388	276.957	722.960
204.957	276.957	722.906
204.988	276.957	722.960
204.990	276.957	722.960
207.355	276.957	722.906
207.359	276.957	722.906
207.373	278.922	722.909
207.388	276.957	722.960
207.455	276.957	722.906
207.459	276.957	722.906
207.473	278.922	722.909
212.055	276.952	722.906
212.059	276.952	722.906
212.073	278.922	722.909

XENTRY

212.073	278.922	725.011
212.073	278.922	725.032
212.074	157.981	722.931
212.080	276.952	722.960
212.088	276.952	722.960
212.091	278.922	722.967
212.091	278.922	725.021
212.095	276.952	724.206
212.255	276.952	722.906
212.259	276.952	722.906
212.273	278.922	722.909
212.273	278.922	725.011
212.273	278.922	725.032
212.274	157.981	722.931
212.280	276.952	722.960
212.288	276.952	722.960
212.291	278.922	722.967
212.291	278.922	725.021
216.373	278.920	722.909
216.374	157.980	722.931
216.394	278.920	722.967
218.355	276.952	722.906
218.355	276.952	725.011
218.355	276.957	722.906
218.355	276.957	725.011
218.359	276.952	722.906
218.359	276.952	725.011
218.373	278.922	722.909
218.373	278.922	725.011
218.374	157.981	722.931
218.391	278.922	722.967
218.959	276.952	722.906
218.959	276.952	725.011
218.973	278.922	722.909
218.973	278.922	725.011
218.974	157.981	722.931
218.991	278.922	722.967
218.991	278.922	725.041
221.057	276.950	722.906
221.073	278.932	722.909
221.074	157.980	722.931
221.082	276.950	722.960
221.094	278.932	722.967

XENTRY

221.157	276.950	722.906
221.173	278.932	722.909
221.174	157.980	722.931
221.182	276.950	722.960
221.194	278.932	722.967
231.457	276.954	722.906
231.473	278.927	722.909
231.474	157.983	722.931
251.057	276.958	722.906
251.157	276.958	722.906
463.272	157.984	722.905
463.273	157.984	722.905