



Preliminary Information

PIP4912G Duramax Intermittent High Idle Or Elevated Idle Descriptions

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Express	2010 - 2016	All	All	6.6L LGH	All
Chevrolet	Silverado	2011 - 2020	All	All	6.6L L5P, LGH, LML	All
GMC	Savana	2010 - 2016	All	All	6.6L LGH	All
GMC	Sierra	2011 - 2020	All	All	6.6L L5P, LGH, LML	All

Supersession Statement

This PI was superseded to update Model Years. Please discard PIP4912F.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition / Concern

A dealer may encounter a customer concern of an intermittent high idle. High idles may be commanded by the ECM for certain battery charging electrical loads or diesel particulate filter (DPF) cleaning processes.

These idle up speeds may occur with no input from the customer. Idle speed descriptions are included below.

G-VAN / GMT610 LGH IDLE SPEEDS				
REASON	RPM	Conditions/Constraints	Enablement	Trans Gear
BASE IDLE	680	Warm engine		P,N,D
	680-850	Base engine curve -Varies with coolant 680-850 temps from -40C to 150C		P,N,D
Manual elevated idle (UF3)	1200 (default)	680 -1300 RPM selectable via Tech2	Set parking brake, cruise ON. cruise SET	P,N
Cold temp warm-up (EPR)	680-1200	RPM level varies with coolant temp disabled once coolant temp reaches 68C delayed for extremely low coolant temps	Enabled by selection through DIC	P, N
DPF Regen	800	During Regen and post-regen cooldown, & HC clean-out		
AIC	N/A	AIC idle speed request disabled by platform for 2011		
Low battery voltage	725	Assist battery charging	Level 1 Based on Platform BCM module request	P,N
	850	Further assist battery charging	Level 2 Based on Platform BCM module request	P,N

	850	Further assist battery charging	Level 3 Based on platform BCM module request	P,N
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C/K Truck / GMT900 / K2XX /T1XX L5P and LML IDLE SPEEDS				
REASON	RPM	Conditions/Constraints	Enablement	Trans Gear
BASE IDLE	640	Warm engine		P,N,D
	640-850	Base engine curve -Varies with coolant temps from -40C to 150C		P,N,D
Manual elevated idle (UF3)	1200 (default)	680 -1300 RPM selectable via Tech2	Set parking brake, cruise ON, cruise SET	P,N
Cold temp warm-up (EPR)	640-1050	RPM level varies with coolant temp disabled once coolant temp reaches 68C delayed for extremely low coolant temps	Enabled by selection through DIC	P,N
DPF Regen	800	During Regen and post-regen cooldown, & HC clean-out	Auto	P,N,D
AIC	N/A	AIC idle speed request disabled by platform for 2011	None	P,N
Low battery voltage	750	Assist battery charging	Level 1 Based on Platform BCM module request	P,N
	900	Further assist battery charging	Level 2 Based on Platform BCM module request	P,N
	1050	Further assist battery charging	Level 3 Based on Platform BCM module request	P,N

C/K Truck / GMT900 / K2XX LGH IDLE SPEEDS				
REASON	RPM	Conditions/Constraints	Enablement	Trans Gear
BASE IDLE	600	Warm engine		P,N,D
	600-850	Base engine curve -Varies with coolant temps from -40C to 150C		P,N,D
Manual elevated idle (UF3)	1200 (default)	680 -1300 RPM selectable via Tech2	Set parking brake, cruise ON, cruise SET	P,N
Cold temp warm-up (EPR)	600-1050	RPM level varies with coolant temp disabled once coolant temp reaches 68C delayed for extremely low coolant temps	Enabled by selection through DIC	P,N
DPF Regen	800	During Regen and post-regen cool-down, & HC clean-out	Auto	P,N,D
AIC	NIA	AIC idle speed request disabled by platform for 2011	None	P,N
Low battery voltage	750	Assist battery charging		P,N
	900	Further assist battery charging		P,N
	1050	Further assist battery charging		P,N

If a dealer has duplicated, or the customer description aligns with the speeds mentioned in the idle speed description tables, the idle speed should be considered a normal characteristic of current vehicle design.

Do not attempt repairs for intermittent high idle as described in this PI.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.



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