

Published date: 10/10/2019

Preliminary Information

PIP5601A Vehicle Vibration Diagnosis and TAC Requests For Assistance With Vibration Related Complaints

<u>Models</u>

Brand:	Model:	Model Years:	VIN:		Engine	Transmissions	
			from	to	Engine:	Transmissions.	
All	All	2000 - 2020	All	All	All	All	

Involved Region or Country	North America
Condition	Some customers may complain of vehicle vibration under any of various driving conditions.
Cause	Vibration could be caused by many various components and conditions.

Correction:

Customer vibration complaints are one of the most challenging complaints to accurately diagnose and repair. To be effective in diagnosis the Pico Oscilloscope Diagnostic Kit with NVH (P/N 733-CH-51450) was sent to all US and Canadian dealers. This is an essential tool and should be maintained in proper working order at all times. There are several preliminary information (PI) documents and Technical Service Bulletins (TSB) in Service Information (SI) that address vibrations on specific models and model years vehicles and should be used accordingly. There are also several generic documents either TSB or PI that also should be used.

Examples: 09-00-91-001B is specific to 08-09 CTS models where there is a new part that can be used as needed.

12-03-10-001B is generic just to make dealers aware of the possibility of tire to rim orientation and tire slipping on the rim.

Diagnosis and repair of vibrations can be compared to a check engine light. We wouldn't attempt to repair the CEL without knowing the DTC stored, same can be said for vibrations. Without knowing the frequency we are just spinning our wheels in attempting to repair.

In an attempt to better assist dealers and get vehicles returned to customers, repaired right the first time, GM TAC will require any calls requesting assistance for vehicle vibration complaints to have a Pico file sent in prior to calling TAC. Anyone calling without following the following process will be given a case number and instructed to call back when process has been followed. 1: Drive the vehicle to verify condition AND record a Pico data file of the concern. Save the file to computer for possible use later.

2: Review that Pico file and use that information to assist in determining root cause or component.

3: Repair the vehicle using Pico information along with any published information relevant to the vibration frequency observed.

4: If the repair attempt made the concern better but not eliminated or had no affect at all, and are requesting assistance from TAC record another Pico file and save it to the computer.

5: Compose an e-mail to TACSNAPSHOT@gm.com in the U.S. and TACSNAPSHOTCANADA@gm.com in Canada. In the subject line include VIBRATION BAC: _____ and last 8 of the VIN _____ and Case #8-XXXXXXXXXXXXX if TAC Case is already established.

6: Attach any Pico files associated with the current vehicle and complaint to the e-mail and send it to TACSNAPSHOT@gm.com in the U.S. and TACSNAPSHOTCANADA@gm.com in Canada

7: Wait at least 1/2 hour after sending the e-mail to contact TAC and set up a TAC case. This will allow time for dealership server, internet service provider and G.M. firewall restrictions to get the e-mail to TAC.

ANY calls to TAC for vehicle level vibration that do not have a Pico file sent in to TAC or Pico files cannot be located because the BAC or VIN is missing from the subject line will be given a TAC case number for reference ONLY and will not be given any further recommendations until a Pico file is sent in.

NOTE: This is for vehicle level vibration complaints, component level vibrations ie: blower motor, brake pulsation or shudder on turns type concerns do not require a Pico file.

To send the file follow the instructions below.

While the reviewed file is on the screen click File Save

File	View Tests	Options Help
	Load	hicle Information Record and Analyze
	Save	
	Print_	
	Print Preview	2
	Preferences	
	Exit	1

The next box allows you to save the vehicle information as well as customer information and notes in the Notes box. This could be sensor location, sensor direction and even road surface name etc. Click Ok when you are done adding information.

👹 Details			×
Customer	Vehicle		
Name	Make	chevy	•
Phone	Model	1500 v-6	•
Address	Year	2014	-
	ID	3GCPCREH2EG100323	
Notes	200		
steering			*
			•
		ОК	Cancel

Save the file to a location on the computer that you can find it. Default location will be waveforms. It is not necessary to rename the file but is critical that you remember where you saved it.

Drganize • New	folder			je •	
Favorites	-	Name	Date modified	Туре	s
E Desktop		2 References	9/30/2014 10:25 AM	File folder	
Downloads	1	15xts VibrationAnalysiser 005.pddata	10/29/2014 1:44 PM	PDDATA File	
Secent Places	ш.	140807_VibrationAnalysiser_001.pddata	8/7/2014 3:20 PM	PDDATA File	
		140807_VibrationAnalysiser_002.pddata	8/7/2014 3:29 PM	PDDATA File	
Desktop		140807_VibrationAnalysiser_003.pddata	8/7/2014 3:35 PM	PDDATA File	
Cal Libraries		140812_VibrationAnalysiser_001.pddata	8/12/2014 7:14 AM	PDDATA File	
Documents		140812_VibrationAnalysiser_002.pddata	8/12/2014 7:19 AM	PDDATA File	
J Music		140813_VibrationAnalysiser_001.pddata	8/13/2014 1:04 PM	PDDATA File	
Pictures		140814_VibrationAnalysiser_001.pddata	8/14/2014 7:27 AM	PDDATA File	
😸 Videos		140814_VibrationAnalysiser_002.pddata	8/14/2014 7:43 AM	PDDATA File	
					,
Eile namer 1	51008	VibrationAnalysises 001 mddata			312
rite names					
Save as type: T	est dat	a (".pddata)			

If you are emailing the file continue the following sequence.

Create an e-mail to TACSNAPSHOT@gm.com in the U.S. and TACSNAPSHOTCANADA@gm.com in Canada and in the subject line Put Vibration your BAC and last 8 of the vin as pictured below.

-	То	tacsnapshot	@gm.com	
Send	Cc			
Jena	Bcc			
	Subject	VIBRATION BA	C XXXXXXX last 8 12345678	

Click the attach button/icon in your email account and attach the file that you have saved. You can save more than one file or attach more than one file to the email.

Documents library Waveforms				
Name	Date modified	Туре	Size	
Ja References	9/30/2014 10:25 AM	File folder		
15xts_VibrationAnalysiser_005.pddata	10/29/2014 1:44 PM	PDDATA File	3,230 KB	
140807_VibrationAnalysiser_001.pddata	8/7/2014 3:20 PM	PDDATA File	3,021 KB	
140807_VibrationAnalysiser_002.pddata	8/7/2014 3:29 PM	PDDATA File	3,125 KB	
140807_VibrationAnalysiser_003.pddata	8/7/2014 3:35 PM	PDDATA File	3,173 KB	
140812_VibrationAnalysiser_001.pddata	8/12/2014 7:14 AM	PDDATA File	2,637 KB	
140812_VibrationAnalysiser_002.pddata	8/12/2014 7:19 AM	PDDATA File	2,676 KB	
140813_VibrationAnalysiser_001.pddata	8/13/2014 1:04 PM	PDDATA File	2,676 KB	
140814_VibrationAnalysiser_001.pddata	8/14/2014 7:27 AM	PDDATA File	10,231 KB	
140814_VibrationAnalysiser_002.pddata	8/14/2014 7:43 AM	PDDATA File	9,154 KB	
140814_VibrationAnalysiser_003.pddata	8/14/2014 8:04 AM	PDDATA File	10,231 KB	
140821_VibrationAnalysiser_001.pddata	8/21/2014 7:24 AM	PDDATA File	10,608 KB	
140821_VibrationAnalysiser_002.pddata	8/21/2014 7:48 AM	PDDATA File	10,171 KB	
140829_VibrationAnalysiser_002.pddata	8/29/2014 8:27 AM	PDDATA File	3,099 KB	
140829_VibrationAnalysiser_003.pddata	8/29/2014 8:27 AM	PDDATA File	2,847 KB	
140926_VibrationAnalysiser_001.pddata	9/26/2014 7:46 AM	PDDATA File	9,771 KB	
141029_VibrationAnalysiser_001.pddata	10/29/2014 10:35	PDDATA File	3,024 KB	
141029_VibrationAnalysiser_002.pddata	10/29/2014 10:37	PDDATA File	3,013 KB	
141029_VibrationAnalysiser_003.pddata	10/29/2014 1:03 PM	PDDATA File	3,052 KB	
141029_VibrationAnalysiser_004.pddata	10/29/2014 1:36 PM	PDDATA File	3,078 KB	
141029_VibrationAnalysiser_005.pddata	10/29/2014 2:51 PM	PDDATA File	2,919 KB	
141029_VibrationAnalysiser_006.pddata	10/29/2014 3:59 PM	PDDATA File	2,830 KB	
150128_VibrationAnalysiser_001.pddata	1/28/2015 1:40 PM	PDDATA File	3,021 KB	
150611_VibrationAnalysiser_001.pddata	6/11/2015 7:20 AM	PDDATA File	10,719 KB	
150611_VibrationAnalysiser_002.pddata	6/11/2015 7:23 AM	PDDATA File	10,485 KB	
150611_VibrationAnalysiser_003.pddata	6/11/2015 7:27 AM	PDDATA File	4,031 KB	
150611_VibrationAnalysiser_004.pddata	6/11/2015 8:13 AM	PDDATA File	9,470 KB	
151008_VibrationAnalysiser_001.pddata	10/8/2015 8:54 AM	PDDATA File	3,024 KB	

The email should look similar to the following.

	To	tacsnapshot@gm.com
Send	Cc	
Jena	Bcc	
	Subject	VIBRATION BAC XXXXXX last 8 12345678
	Attached	151008 VibrationAnalysiser 001.pddata (3 MB)

You can add any notes that you want to the email but is not required. Hit Send and we should have it here at technical assistance.

Warranty Information

Additional SI Keywords

PIP5338, PIP5338A, PIP5338B,

Version History

Version	1
Madified	10/22/2018 - Created
Modified	9/19/2019 - Updated to add 2020 model year.



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