

SAFETY RECALL

HINO L6 - ABS SOFTWARE REPROGRAMMING

CAMPAIGN NO: AAJS0 DATE: 8-20-2020 REFERENCE: QA-200818-N1 **SUBJECT VEHICLES**: Certain 2021MY Hino L6 trucks equipped with a J08 engine

Note: Refer to the appropriate Vehicle Identification Number in the warranty system to determine vehicle eligibility.

5. Handling of Dealership Inventory

Under 40 Code of Federal Regulations § 1068.101, a dealer cannot sell, offer for sale, or introduce or deliver for introduction in interstate commerce a new motor vehicle when it is aware that the vehicle does not comply with an applicable Federal Motor Vehicle Safety Standard or contains a defect related to motor vehicle safety. A civil penalty of up to \$44,539 may be assessed for each engine or piece of equipment in violation. In addition, 49 Code of Federal Regulations §577.13 requires us to provide the following advisory: It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by this notification under a sale or lease until the defect or noncompliance is remedied.

We request your assistance to ensure involved vehicle are identified and not delivered prior to performing the remedy.

OVERVIEW:

In the ABS-ECU control program for the 2021MY low-profile vehicles equipped with a full air brake system, we determined that because the programmed set value of the number of teeth in the rear tone ring was different from the actual number of teeth in the rear tone ring of the vehicles, the ABS warning lamp illuminated and the ABS function became disabled. This work procedure will provide instruction for updating the ABS ECU control software.



BEFORE YOU BEGIN:

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **NOTICES**, **WARNINGS**, and **CAUTIONS** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a level and solid surface and apply the parking brake.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels.
- **NOTICE:** Before beginning these procedures, you **MUST** install a battery charger on the vehicle to ensure battery power does not go low during reprogramming.
- NOTICE: Before beginning these procedures, you also MUST be certain that the laptop battery is fully charged, or a remote AC power supply is connected to the laptop to ensure the battery power does not go low during reprogramming.



VEHICLE PREPARATION:

1. Park the vehicle on a flat, level and solid surface. Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.





2. Apply the parking brake. Chock all of the wheels.





Note: Refer to the latest software number for the application.

ABS ECU Software

PART NUMBER	DESCRIPTION	QUANTITY
S8923-E0U41	Software, Brake Control, NO.3	1



ABS ECU REPROGRAMMING PROCEDURE

CAUTION: A battery charger **MUST** be installed on the vehicle to ensure battery power does not run low during reprogramming or module damage may occur. DO NOT start the procedure without the battery charger being installed.

1. Prepare a DXII compatible interface, such as the Denso DST-i or the Nexiq USB Link 2 to perform this reprogramming procedure.

To assemble the interface cable, perform the following steps.

- (1) Connect the DLC (Diagnostic Link Connector) cable to the interface.
- (2) Connect the USB Cable to the interface.
- (3) Connect the USB connector to the USB port on your computer.



2. Connect the DLC cable to the vehicle's DLC connector. The DLC connector is found under the dash on the left side of the steering column.





3. On your computer, locate the "Hino DX2" icon and open it. Clicking on Hino DX2 will open a login menu window which will prompt you for a "User ID" and "Password". Enter your User ID, and password and then select the "Login" icon. Verify that the DX2 has software version 1.1.20.7 or later. Update the DX2 software if required. Insert the ignition key into the starter switch and turn the key to the "ON" position.





4. Select the "Reprogramming" icon.

	Diag history			
Diagnosis	Date and time	VIN		
	2014/04/21 16:04:1	8 JHHSDM2H9EKC	02104	
	2014/04/21 15:51:1	4 JHHSDM2H9EKC	02104	
Gustomization	2014/04/21 15:43:0	JHHHDM2H6EK	01308	
odotomization	2014/04/21 15:43:0	JHHHDM2H6EK	01308	
	2014/04/21 15:41:0	2 JHHHDM2H6EK	01308	
	2014/04/21 15:39:2	4 JHHHDM2H6EK0	01308	
Reprogramming	2014/04/21 15:39:2	4 JHHHDM2H6EK0	01308	
	2014/04/21 15:34:5	4 JHHHDM2H6EK0	01308	
	2014/04/21 15:25:0	9 JHHHDM2H6EK0	01308	
Simulation	2014/04/21 15:21:3	18 JHHHDM2H6EK0	01308	
Cirricia di Cirri	2014/04/21 15:21:3	IS JHHHDM2H6EK0	01308	
	2014/04/21 15:13:3	I JHHHDM2H6EK0	01308	
	2014/04/18 13:50:2	4 5PVNE8JV3E4S	52972	
	2014/04/18 13:48:1	3 5PVNE8JV3E4S	52972	
	2014/04/18 13:41:5	6 5PVNE8JV3E4S	52972	
	2014/04/18 13:25:4	6 5PVNE8JV3E4S	52972	
	2014/04/18 13:13:3	5 5PVNE8JV3E4S	52972	
	System Announce			
HINO	Title	Start DateTime	End DateTime	



5. Select both "600 Series" under the "Vehicle Classification" drop down menu, and "Brake (WABCO ABS-E8)" under the "System Classification" drop down menu. Then select the "OK" icon.



6. Select the red "Click" icon to proceed to the "ABS-E8 Carry out reprogramming menu."



TRUCKS A Toyota Group Company **7.** Under the "Download from the server" tab, choose "ECU program update" from the drop-down menu. Click "Download" to retrieve the software update file from the reprogramming server.

[Reprogramming ECU main window][SC0401]-[ECU repro	ogramming menu window][SC0409]	
File(F) Setting(S) Past work information (V	V) Troubleshooting(D) Version info(V) Help(H) I Selected Equipment] Brake (WARCO ARS-F8) ARS-F8	Back manu
Brake (WABCCO ABS-E8)	Image: Second	Dock menz
New equipment		Next Cancel
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8. After the file is downloaded, select "Next" at the lower right.

SPVNJ8CS8M5T50001	≥ ≪	[Selected Equipment] Brake (WABCO ABS-E8) ABS-E8	Back menu
Brake (WABCO ABS-E8) ABS-E8 S8923E0S40B		Rewrite ECU program	
		Brake (WABCO ABS-E8) ABS-E8 S8923E0S40B	1/2
		FIN:HNUSA010002674 2020/08/06 10:46:20	1/3
		Download from the server	
		Contents of Work ECU program update	
		VIN	
		5PVNJ8CS8M5T50001	
		5011	
		S8922E0S41 sob	
		Engine No.	
		J08EVE51267	
		Part number of ECU program	
		S8923E0S41	
		infile	
		5PVNJ8CS8M6T50001.inf	
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9. The DX2 will verify the downloaded file is compatible with the vehicle. Ensure that all three Judgments are marked as green. Click the "Write to ECU" icon.

File(E) Setting(S) Past work information (W) Tro	ubleshooting(D) Version info	y) Help(H)			
5PVNJ8CS8M5T50001	[Selected Equipment] Brake (WABC	O ABS-E8) ABS-E8			Back menu
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	Brake (WABCO ABS	-E8) ABS-E8			0/2
	PIN:HNUSA0100026	74 2020/08/06 10:48:38			2/3
	Vehicle classification 600) series(Conventional)	System classification	n Brake (WABCO ABS-E8)	
		ror file set value	Set value from ECU Judgr	ment	
	VIN	5PVNJ8CS8M6T50001	5PVNJ8CS8M6T50001		
	Engine No.	J08EVB51267			
	Part number of ECU	S8923E0S41	S8923E0S40B		
	program	05%		•	
	Battery cneck	PC battery 00%	Vehicle battery		
	Verify result	No problem. Is reprogrammable.			
				1	
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10. After completion of programming, the DX2 will report both the "before work" and "after work" software part numbers. Click "OK".



TRUCKS A Toyota Group Company 11. Click "Yes" to end the reprogramming session.

 [Reprogramming ECU main window][SC0401]-[Reprogramming EC File(E) Setting(S) Past work information (W) Tro 	U getting Information Window[[50402]] ubleshooting[D] Version info(V) Help(H)	- 8
5PVNJ8CS8M5T50001	ESelected Equipment] Brake (WABOO ABS-E8 Bac	k menu
Brake (WABCO ABS-E8) ABS-E8 S8923E0S40B	Rewrite EC!1 program (ECU reprogram window)[SC0403]	
	Brake (W/k Start writing to ECU 3/ 3 FINIHNUS Vehicle class 100% Value Reading Confirmation Screen[SCOLIB] Part num program Reading Re-program has finished. Battery of Verify res In the same vehicle, if you want to re-program the other ECU please press the "No" button. Hyor want to and the re-program, please press the "Yes" button. Box (WABCO ABS-EB) Contents Yes Verify res Reading In the same vehicle, if you want to re-program the other ECU please press the "No" button. Hyor want to and the re-program, please press the "Yes" button. Downall Contents Yes No Finish	2/3
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12. Click "Finish" to return to main DX2 menu.

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File(E) Setting(S) Past work information (W) Troub	kechooting(D) Version info(V) Help(H)	
5PVNJ8CS8M5T50001	[Selected Equipment] Brake (WABOO ABS-E8) ABS-E8 Back manu	
Brake (WABCO ABS-E8)	Rewrite ECIL	
ABS-E8 S8923E0S40B	program [ECU reprogram window][SC0403]	
	Brake (W/ Start writing to ECU 3/3	12
	PINHNUS Z	3
	Vehicle class 100% tion Brake (WABCO ABS-E8)	
	Reading Vehicle Control ECU Set Value	
	VIN	
	Engine No 100%	
	Part num program Reading EBS ECU Set Value	
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	Verity rea	
	overall	
	Contents 100%	
	FCI L reprogramming completed	
	Oheck and delete any DTO's for all ECU's connected to the vehicle.	
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13. Select the "Diagnosis" icon.

Diamosis	Date and time	VIN	Remark		
	2020/08/06 10:46:10	5PVNJ8CS8M5T50001			
	2020/07/08 15:06:08	5PVNV8JV3B4S51705			
	2020/07/08 14:59:31	5PVNV8JV3B4S51705			
Customization	2020/07/07 11:16:52	5PVNV8JV3B4S51705			
	2019/05/01 15:15:49	JHHRDM2H4KK007981			
	2019/05/01 15:01:08	JHHRDM2H4KK007981			
Poprogramming	2019/05/01 14:58:54	JHHRDM2H4KK007981			
reprogramming	2019/05/01 14:23:50	JHHSDM2H5KK010664			
	2019/05/01 14:04:49	JHHSDM2H5KK010664			
	2019/05/01 14:03:30	JHHSDM2H5KK010664			
Simulation	2019/05/01 13:27:28	JHHYDM1H4KK008044			
	2019/05/01 13:11:15	JHHYDM1H4KK008044			
	2019/05/01 13:07:13	JHHYDM1H4KK008044			
	2019/05/01 11:44:21	JHHYDM1H7KK008023			
	2019/05/01 11:32:36	JHHYDM1H7KK008023			
	2019/05/01 11:31:14	JHHYDM1H7KK008023			
	Upload File history		System Announce		
HINO	Date and time	File Name	Title	Start DateTime	End DateTime
	2020/08/06 10:55:44	5PVNJ8CS8M5T50001.inf			
	2020/08/06 10:52:54	202008061045_ENG.xml			
	2020/08/06 10:52:01	5PVNJ8CS8M5T50001.inf			

14. Select "600 series(Conventional)" and check mark all eleven (11) devices. Then click "Read Out".

Diagnosis	Date and time VIN Remark	Â
	[Read DTC window][Sc0201]	E
	Vehicle classification 600 series(Conventional)	
Customization	Area North America -	
	Device classification	
	Engine	
	Transmission (old AT)	
Reprogramming	DCU(Doser)(500K)	
	DCU (Burner)	
	I Meter	
Simulation	Meter (7 inch)	
Sinuation	VCS (Vehicle Control System)	
	Differential lock	
	Brake (WABCO ABS-E8)	
	Body Control Module	
		*
	ų l	
HINO	Start DateTime	End DateTime
	Read out Cree	
	2020/08/06 10.52:01 5PVNJ8CS8M5T50001.inf	
NO DIAGNOSTIC EXPLORER		



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15. Select "OK".

Diagnosis	Date and time VIN	Remark
0.051.000	2002 [Communication Progress with ECU window][SC021]	
Customization	202 Retrieve pre-diagnosis data. 202 Read Brake (WABCO ABS-E8) ECU 201 Read DTC	
Reprogramming	201 Read support information 201 Retrieve pre-diagnosis data. 201 Read Body Control Module ECU 201 Read DOD	
Simulation	Read DTC Read support information Retrieve pre-diagnosis data. Confirmation of the presence or absence of VIN Contacting the Repro server. Configure tree view information Meter[S838C=E0060]Item information is not registered in the database of	f the DXII.
	201 Uploa Dat 202 2020/08/06 10:52:54 202008061045_ENG xml 2020/08/06 10:52:01 5PV/NJ8CS8M6T50001 inf	OK Start DateTime End DateTime

16. Click "Delete all" to delete DTC's from all vehicle modules.





17. On the "DTC is Deleted" menu click "OK".

Engine • Voite-VB 8963-E4T30A • Voite-VB 8963-E4T30A • Voite-VB 8963-E4T30A • Voite-VB 8963-E4T30A • Part • None • DoUDoser/80530E/W20 • Porsent • None • Out / Update all • Delsis	S 5PVNJ8CS8M5T50001												Customization	n	Back menu	New Diagnosis
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Present None Past None VOS (Vehicle Control System) VOS (Vehicle Control System) VOS (Vehicle Control System) VOS (Vehicle Control System) VOS (Vehicle Control System) Read out all / Update all Delete D	Meter (7 inch)			DT	DTC is de	deleted.										
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18. Select "New Diagnosis" to end the diagnostic session, and confirm by clicking "OK".





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19. Turn the starter switch to the "LOCK" position and remove the key.



REPAIR LABEL INSTALLATION PROCEDURE

Once all above steps in this recall procedure have been completed, apply a recall label to the left door jamb above the VIN label. Fill in the Campaign No, Dealer code, and Repair date. Proceed to the Final Inspection Procedure, on Page 14.







FINAL INSPECTION:

- The ABS ECU module software has been updated to the latest level as outlined by this recall procedure.
- When reprogramming, DTC's may have inadvertently been set. Make certain that all codes logged as a result of the ECU reprogramming have been cleared from the Engine ECU, Transmission ECU, ABS ECU, DCU and VCS prior to releasing the truck back to the customer.
- The recall label was installed on the door jamb.

CLAIM APPLICATION

ABS ECU Reprogramming:

- a) Campaign No: AAJS0
- b) Labor charge: 0.5 Hrs.
- c) Warranty code: 88611
- d) Trouble code: 98
- e) Operation code: 86350AOT
- f) Original failed part: 9999999999

