

INSTRUCTION TO SERVICE

ITS-60801	September 5, 2023
SECTION:	219-PROPULSION DRIVE
WRITTEN BY:	Mark Reitz
SUBJECT:	Cruise Recovery Parameter in Cummins INSITE.
ISSUE:	The adaptive cruise kicks in when there is a slower car ahead, and if that vehicle leaves the space, the recovery will not kick in to bring the coach back up to the set speed the cruise was set to.
SUMMARY:	Performing this procedure will change the cruise recovery parameter that corrects the issue.

ITS-60801

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

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PROCEDURE:

- 1. Set park brake and chock wheels.
- 2. Turn the main battery disconnect switch to the "ON" position.
- 3. Connect the NEXIQ USB Link 2 adapter to the CAN 1_2 port in the driver's area and then to the laptop.
- 4. The Open Cummins INSITE application version 8.8 or older and connect to the ECM.



5. If a Work Order window pops up, click OK.

INSITE 8.6.0.116 / DP			C New Work Order		×			
File Edit View lools N	Manage License(s)	End to Guidan			~			
	× Contraction		Work Order			DID	SID	10
Disconnect from	Fault Code	Status	Engine Information			FID	510	-
	CM2350A	ECM Time	ECM Serial Number	22535956				
Fault Codes		Engine H	🔈 Make	CMMNS		-		
		Keyoffs	- 🔈 Model	6L u17D0890000000				
Monitor/Logger			Serial Number	74584171	esel Exhaust Fluid Dosing			
	€ 0 5867	Inactive	□ Image-CM2350A [0]	0	Source			~
9 ECM Diagnostic Tests	. 3843	Inactive	Tile Location	C\Intelect\INSITE\WorkOrder s\I-20230831-140656854	able Command - Abnormal			ç
Advanced ECM			Nimage Name	1-20230831-140656854	esel Particulate Filter			
Data	RO 4162	Inactive	Start Repair Date	31-Aug-2023 02:06:56 PM	sor Module - Voltage Below			4
Enatures and	80 4102	inactive	System Type	Initial	I to Low Source			
Parameters			Summary Information		rer Circuit - Abnormal		27	c
/a	€ 0 1894	Inactive	Customer Contact	************				
Calibration Selection	7105		Customer Name	HI SPEC	ontrol Mode - Abnormal			ç
	€ 7425	Inactive	Last Modified					
Work Orders ECM Images		Inactive	Technician's Note	1	ntake NOx Sensor -			ŝ
Cc ECM Templates		Inactive			Dutlet NOx Sensor - Rate			ŝ
Trip Information	■ 1117	Inactive	-		t With Ignition On - Data nt, or Incorrect		251	2
	10		Print	OK Cancel Help	IADCI Controllor			
Bi Connected to ECM				- AUTO DELECT - RPT CIVA		-		1



6. Select Features and Parameters icon.

EINSITE 8.6.0.116 / DP		- 🗆 X
File Edit View Tools Manage License(s) Send To Guid	anz <u>W</u> indow <u>H</u> elp	_ & ×
1000011×10100410814	₽& b_by 0 #0>1=#88	
Connect to ECM ^ No ECM Connected		
Fault Codes		
Data Monitor/Logger		
ECM Diagnostic Tests		
Advanced ECM Data		
Features and Parameters		
Calibration Selection		
Work Orders ECM Images ECM Templates		
Ready.	USB-Link 2 - Auto Detect - RP1210A	

7. Expand the Cruise Control folder. Expand the Adaptive Cruise sub folder. Select the cell and change the parameter to "Conventional."

WA WA FOIL V PO			
		FCM Value Units	Original Value
Disconnect from		Lon value on b	
	© CM23500 L1100		
Fault Codes	System ID and Datanlate		
•		Enable	
Data		Enable	
er moratori togger	Adjustable Low Idle Speed	Enable	
ECM Diagnostic		and the second of the second o	
lesis	Alterueaunen	Disable	
Advanced ECM	Alternator ailure Warning	Disable	
Ser Data	Battary Power Required Lamp	Disable	
Features and	Battery rower required tanp	Not Installed	
Parameters		Enable	3
Calibration		1.9 mph	
Selection	Cruise Control Lone Droop	0.0 mph	
Work Orders	Maximum Cruise Control Speed	72 mph	
ECM Images	Adaptive Cruise	Epable	
- DCM Templates	Adaptive Cruise Recovery	Conventional	Disable
(1)	Adaptive Cruise Usage Demand	Disable	
Trip Information	Cruise Control Auto-Resume	Disable	
	Cruise Control Pause Switch	Disable	
Audit Trail	Cruise Control Save Set Speed	Disable	
b Incuring Data	Cruise Control and Engine Brake Interaction	Enable	



8. Select File > Send To > ECM.

New	>	MBRABBBB			1111122		- 6
Open Close	Ctrl+0	Id Parameters		ECM Value	Units	Original Value	
Save Analyze Image	Ctrl+S	iOA stem ID and Dataplate					
Convert	>	celerator Interlock		Enable			
Import	\$	celerator Options		Enable			
Connections	>	ertreatment	2	©			
Page Setup Print Preview		Shut Off Valve emator Failure Wa ming	~ 2	Disable Disable			
Print	Ctrl+P	tery Power Required Lamp		Disable Not Installed			
Properties	Alt+Enter	ECM		Enable			
Exit		ruise Control Upper Droop		1.9	mph	- 3	
ork Orders	- 11	Aximum Cruise Control Speed		72	mph		
CM Templates		Adaptive Cruise		Enable Conventional		Disable	
ip Information		Adaptive Cruise Usage Demand		Disable			
	- 💼 (Cruise Control Auto-Resume		Disable			
udit Trail		Cruise Control Pause Switch		Disable			
ouire Data	H C	uise Control and Engine Brake Inte	raction	Enable			

9. Select OK to confirm the change.

INSITE 8.6.0.116 / DP -	- L9 CM2350 L1168 - Engine Serial Number - 74584171 - ECM Code - H880439.02					×
File Edit View Too	ols Manage License(s) Send To Guidanz Window Help			11.176	PETHINI R. LIF	×
	Footures and Parameters		ECM Value	Units	Original Value	^
Disconnect from ECM	= 19 CM2350 L116B		uannan an a			
	-= CM2350A					
Fault Codes	🖷 💼 System ID and Dataplate		<u>Hallana an a</u>	11119		
	Accelerator Interlock		Enable	1119		
Monitor/Logger	Accelerator Options		Enable			
	B Adjustable Low Idle Speed		Fnable			
Tests	Confirm ECM Adjustment					
	Air Shut Off Valve INSITE is ready to save changes to the ECM.	Sable				
Data	Bellemator Failure	, do not turn the	keyswitch sable			
	Battery Power Req ON or OFF unless instructed to do	50.	sable			
Parameters	Clutch Pedal Posit Select OK to continue.		anet			
C. Handling	-B Cruise Control		10	mph		
Selection	Cruise Control Low	OK	Cancel) mph		
	Cruise Control Upper Droop	iiiiiiiiiiiiiiiiiii	7:	2 mph		
Work Orders	Maximum Cruise Control Speed		Enable			
ECM Templates	Adaptive Cruise		Conventional		Disable	
	Adaptive Cruise Recovery	MARIAN	Disable			
Trip Information	Adaptive Cruise Usage Demand		Disable		W. R. Destanding Kinking	
	Cruise Control Auto-Resulte		Disable			
Audit Trail	Cruise Control Pause Switch		Disable			
	Cruise Control and Engine Brake Interaction	da HIM	Enabl	е		
Inquire Data	Cruise Control and Engine Dictate International Control of the Con	ct - RP1210A -	RP1210A (J1939)	Firmware:	Not Available	
Connected to ECM.	3 3000				~ •	(())



10. Wait for the update to finish.

INSITE 8.6.0.116 / DP -	L9 CM2350 L116B - Engine Serial Number - 74584171 - ECM Code - HB80439.02		× 🗆 – «
File Edit View Too	ols Manage License(s) Send To Guidanz Window Help		- 8 x
		501011	
Disconnect from ECM	□ I 9 CM2350 L 116B	ECM Value Units	Original Value
	■ CM2350A		
Fault Codes	B System ID and Dataplate		
Data	B Accelerator Interlock	Enable	
Monitor/Logger	Accelerator Options	Enable	
FCM Diagnostic	Adjustable Low Idle Speed	Enable	
Tests	C Aftertrastment	19 (A) (A)	
Advanced ECM	Be Air S		×
Data	• Alter		
Features and	Action: Waiting 100 seconds before allowing for Key On	38 seconds remainir	ng
Parameters			
Calibration			
Selection		3	
Work Orders	Maximum Cruise Control Speed	72 mph	
ECM Images ECM Templates		Enable	
	Adaptive Cruise Recovery	Conventional 🝷	Disable
Trip Information	🚽 🛑 Adaptive Cruise Usage Demand	Disable	
	e Cruise Control Auto-Resume	Disable	
Audit Trail	- Cruise Control Pause Switch	Disable	
	- Cruise Control Save Set Speed	Disable	
Inquire Data	Cruise Control and Engine Brake Interaction	Enable	v
Connected to ECM.	USB-Link 2 - Auto Detect - RP1210A	RP1210A (J1939) Firmware: No	tAvailable

11. Follow the prompt and turn the Ignition "ON" before selecting "OK" in the window.

4 INSITE 8.6.0.116 / DP -	L9 CM2350 L116B - Engine Serial Number - 74584171 - ECM	Code - HB80439.02				
Hile Edit View Too	ls Manage License(s) Send To Guidanz Window Help	Contraction of the second				- # x
<i>的命命</i> 四 % 即	BBANB& SBBY			114/		-
Disconnect from	Features and Parameters		ECM Value	Units	Original Value	^
- ECM	E L9 CM2350 L116B					
000 Factor Contra	E CM2350A					
Pault Codes	System ID and Dataplate					
Data	Accelerator Interlock		Enable			
Monitor/Logger	Accelerator Options		Enable			
FCM Diagnostic	Adjustable Low Idle Speed		Enable			
Tests	Aftertreatment		5			
Advanced FCM	Air Shut Off Valve		Disable		/	
Data	Alternator Failure Warning	y Switch On	^ isable			
Easturns and	Battery Power Required La		isable	/		
Parameters	🗉 💼 Clutch Pedal Position Swit	Please turn the Key Switch on, and ther	click OK. stalled			
Cathering	🗉 💼 Cruise Control		Enable			
Selection	- Cruise Control Lower Droo		95 1.9	mph		1000
	Cruise Control Upper Droo		0.0	mph		
Work Orders	 Maximum Cruise Control Speed 		72	mph		
ECM Templates	- Adaptive Cruise		Enable		A THINK HAR AND A C	
n	Adaptive Cruise Recovery		Conventional -		Disable	
Trip Information	🚽 🚔 Adaptive Cruise Usage Dema	Ind	Disable			
	- Cruise Control Auto-Resume		Disable			
Audit Trail	- 🚔 Cruise Control Pause Switch	0	Disable			
	🚽 🛑 Cruise Control Save Set Speed		Disable			
Inquire Data	- Cruise Control and Engine Brake	e Interaction	Enable			
Connected to ECM.	<u></u>	USB-Link 2 - Auto Detect - RP1210A	RP1210A (J1939) F	irmware: N	ot Available	



12. Follow the prompt and select "OK."

Disconnect from	Features and Parameters	ECM Value Units	Original Value
ECM	E L9 CM2350 L116B		
Fault Codes	CM2350A		
	System ID and Dataplate		
Data	Accelerator Interlock	Enable	
Monitor/Logger	Accelerator Options	Enable	
ECM Diagnostic	Adjustable Low Idle Speed	Enable	
Tests		la ing	
Advanced ECM	Air Shut Off Valve ECM Write Succeeded	× Disable	
Data	Alternator Failure Warning	Disable	
Features and	Battery Power Required L All parameters were written successfully to the Education	CM. Disable	
Parameters	Clutch Pedal Position Sw	ot Installed	
Calibration	Cruise Control	Enable	
Selection	Cruise Control Lower Droop	1.9 mph	
	Cruise Control Upper Droop	0.0 mph	
Work Orders ECM Images	 Maximum Cruise Control Speed 	72 mph	
ECM Templates	-	Enable	
	Adaptive Cruise Recovery	Conventional 💌	
Trip Information	Adaptive Cruise Usage Demand	Disable	
	Cruise Control Auto-Resume	Disable	
Audit Trail	Cruise Control Pause Switch	Disable	
	Cruise Control Save Set Speed	Disable	
Extension	Cruise Control and Engine Brake Interaction	Enable	
nnected to ECM.	USB-Link 2 - Auto Detect - RP1210A	RP1210A (J1939) Firmware: Not	Available
Type here to sear	rch 🛱 🙀 🙀 🛱 🙀		^ ■ 🧖 ⊄0) ₈₀
		P I I I I	

13. Disconnect from the ECM.

			19120519		-
Disconnect from	Features and Parameters	ECM Value	Units	Original Value	
	= L9 CM2350 L116B				
Ser here	-= CM2350A				
Fault Codes	System ID and Dataplate				-
Data	Accelerator Interlock	Enable		Disconnect from	
Monitor/Logger	Accelerator Options	Enable		ECM	
FCM Diagnostic	- Adjustable Low Idle Speed	Enable		LOW	
Tests	e 💼 Aftertreatment				
Advanced FCM	🕀 💼 Air Shut Off Valve	Disable			
Data	🗄 💼 Alternator Failure Warning	Disable			
Easturns and	Battery Power Required Lamp	Disable			
Parameters	Glutch Pedal Position Switch	Not Installed	EIST-21		
Calibratian	e 💼 Cruise Control	Enable			
Selection	- X Cruise Control Lower Droop	1.9	mph		
	- 🔨 Cruise Control Upper Droop	0.0	mph		
Work Orders	Maximum Cruise Control Speed	72	mph		
ECM Templates	🗉 💼 Adaptive Cruise	Enable			
BLARE A	Adaptive Cruise Recovery	Conventional 🔫			
Trip Information	🚽 🛑 Adaptive Cruise Usage Demand	Disable			
	e Cruise Control Auto-Resume	Disable			
Audit Trail	Cruise Control Pause Switch	Disable			
	- Cruise Control Save Set Speed	Disable			
Inquire Data	Generation Generation Generation	Enable			



14. Select File > Exit to shut down the INSITE application.



LABOUR ESTIMATE							
	Operation	Number of Technician(s)	Hours	Labor Time T X HR			
1	Change the Cruise Recovery Parameter in Cummins INSITE.	1	.5	.5			

PARTS REQUIRED									
Item	Part Number	Description	Qty. per Coach	Units	Notes				
1									

SPECIAL TOOLS REQUIRED								
Item	Part Number	Description	Qty.	Units	Notes			
1		Cummins INSITE Version 8.8 or later	1		Software			
2		NEXIQ USB Link 2	1		Hardware			

