Honda 2021 JAZZ Crankshaft (CKP) Sensor Matching Value Learning

Tested Model: HONDA JAZZ HYBRID 2021

Function Description:

For Honda models, after repairing the misfire or replacing the CKP sensor, you need to perform this function to write the new crankshaft (CKP) sensor matching value to the ECM/PCM.

Execution Conditions:

- Connector connected and ignition switch ON
- In P gear
- Engine coolant temperature: over 75 [°C] (HEV system engine coolant temperature: over 80 [°C])
- ATF temperature: over 45 [°C]
- Before starting the engine, the hybrid vehicle must be switched to the maintenance mode.

Procedure:

1. On a PAD 5, choose [Local Diagnose], and then choose [Honda] for testing.

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X-431 PAD5 V8.0	0.016				20 \cdots
Intelligent Diagnose	Local Diagnose	Remote Diagno	se New Ene	ञ्चि rgy Diagnose	Special Function
Online Programming	Toolbox	Software Upda	te Engine	か に存 Health Test	X-431 Diagnosis Kit
Know Your Customer	Mall	Launch Academ	ny Us	2 er Info	更多(测试)
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Local Diagnose SN	I: 989347213175			C	Enter the model name
Automotive H	D Motorcycle	ІММО	EV Batter	y Pack	
		Diagnostics for	Diagnostics for	Diagnostics for	Diagnostics for
All America	VINScan Service	Honda	Mitsubishi	Acura	Demo
Asia Diagnostics for	Diagnostics for	by LAUNCH	by LAUN	Diagnostics for	UNCH by LAUNCH
China EOBD/OI	BDII Alfa Romeo	Audi	Bentley	Brilliance SR	M Bugatti
Diagnostics for					
Buicl	K BYD	Cadillae	Chery	CheryEV	Chevrolet
Diagnostics for					

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Vehicle Version Information		î		₽
Software ID	Version #			
HONDA	V49.20			
Honda Diagnostic	: Software V49.20			
Update				
Summary:				
 Added ELEVATE, N-VAN BEV, ENS2 and ENP2. Added and optimized Data Stream ar 	nd Special Functions of some systems. Added E	CU Reprogramm	ng Function	
New Functions:				
 Added the following models: ELEVATE, N-VAN BEV, ENS2 and ENP2. Added special functions: ECU programming, Annuale:HEV battery health check, high refrigerant shut-off valve test. Added ECU Reprogramming Function. 	n voltage battery ECU diagnosis, A/C refrigerant	electric expansic	n valve test	and A/C
Optimized Functions:				
 Optimized special functions, including ECM/PCM replacement, valve body characte Optimized data stream of systems such as Automatic Transmission system(AT) and 	ristic learning and high voltage battery diagnosi: d Electric Powertrain/IMA(Integrated Motor Ass	s etc. ist) etc.		
Fixed Bugs:				
None.				
Maintenance Service Undate:				
	V	ehicle Covera	ge	ок
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2. Click [16PIN DLC], and then choose the region to automatically identify the car model. For this test, choose the [General] region.

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Show Menu		A	
HONDA V49.20 > Diag	nostic Connector Select		⊞ 12.06V
			Please enter keyword
16PIN DLC			
3PIN DLC			
SCS			

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HONDA V49.20 > 16PIN DLC	⊞ 12.06V
	Q Please enter keyword
Canada	Europe
General	Japan
USA	

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3. Confirm the vehicle information, and then click OK.

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Show Menu		ft -			P
HONDA V49.20 > 16PIN DLC					∰12.01V
					er keyword
Canada	Europe				
Conoral	VEH. Info.				
USA	VIN: JHMGR3850M:s215921 VEH Type: FIT HYBRID - JAZZ HYBRID VEH Year: 2021 Engine ID: 2420320603 PRO. No.: 37805-R9G-N120 Please Record Or Print The Information On This Page Which Is Useful For You To Query After-Market Service Center.				
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System and Fund	tion					ŵ	Ź			F
HONDA V49.20 > 16PIN DLC >	• General				PG	M-FI/Diese	l(Engin	System)		
System Topology	*Support slid	ing up and Safety	I down Normal		FU	ini-ri/Diese	in (Engline	e System)		
System List		Γ°	Q							
ADAS Calibration		Power	PGM-FI	-						
ECU Reprogramming		Body	METER							
Service Function	OBD		9	IE						
		Other	ADS							
	К	ADAS	MVCS			E	NTER			
SN:989347213175 FIT HYBRID - JAZZ HYBRID : VIN JHMGR3850M	2021			Smart Detection	High-s	peed Scan	Syste	em Scan	Select De	tection
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4. Choose the engine system and click [ENTER].

5. Choose [Special Function].

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Show Menu	
HONDA V49.20 > 16PIN DLC > General > PGM-FI/Diesel(Engine System)	⊞11.83 V
	QPlease enter keyword
Module Information	Read Fault Code
Clear Fault Code	ECM/PCM Reset
Read Data Stream	Read Freeze Frame
Actuation Test	Special Function
ECU Reprogramming	

SN:98934721317 FIT HYBRID - JA2 VIN JHMGR3850	75 ZZ HYBRID 202 M.551 9897	21				
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6. Choose [Crank (CKP) Pattern].

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HONDA V49.20 > 16PIN DLC > General > P	PGM-FI/Diesel(Engine System)				🖽11.83V
					enter keyword
Write VIN		Replace ECM/PCM			(i)
Crank (CKP) Pattern		Throttle Learning			
Readiness Codes		Shipping Mode Release			
Coolant Air Bleeding					

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7. Choose [Crank (CKP) Pattern Clear] to clear the crankshaft (CKP) sensor matching value data stored in the ECM/PCM.

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Crank (CKP) Pattern Clear					(i)
Crank (CKP) Pattern Learning					(i)



8. View the function description and click OK.

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Crank (CKP) Pattern Clear						
Crank (CKP) Pattern Learning	Special Function					
	This Clear Command Erase Only CKP Pat Data Stored In The ECM/PCM Use This Command After Repairing A Mis Or Replacing A CKP Sensor Afterward, Do The 'CKP Pattern Learn Procedure' To Write The New CKP Pattern Into The ECM/PCM. Do You Wish To Continue?	tern ifire				
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9. Clearing...Please wait.

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HONDA V49.20 > 16PIN DLC > General > PGM-F	FI/Diesel(Engine System)				⊞11.85V
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Crank (CKP) Pattern Clear					
Crank (CKP) Pattern Learning					
	Notes				
	Communicating, Please Wait				
	END SESSION				
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FIT HYBRID - JAZZ HYBRID 2021 VIN JHMGR3850M					
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10. Start the engine as prompted and then click OK. Before starting the engine, the hybrid vehicle must be switched to the maintenance mode.

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Crank (CKP) Pattern Clear					
Crank (CKP) Pattern Learning					
	Special Function				
	Please Start The Engine.				
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	ОК				
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11. Turn off the ignition switch as prompted, and then click OK.

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Crank (CKP) Pattern Clear					
Crank (CKP) Pattern Learning					
	Special Function				
	Turn The Ignition Switch Off				
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Crank (CKP) Pattern Learning					
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12. Turn on the ignition switch as prompted, and then click OK.

13. Wait for 30s.

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Crank (CKP) Pattern Learning			
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	END SESSION		
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14. The crankshaft (CKP) sensor matching value data in the ECM/PCM has been cleared. Click OK.



15. Choose [Crank (CKP) Pattern Learning] to write the new crankshaft (CKP) sensor matching value into the ECM/PCM.

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HONDA V49.20 > 16PIN DLC > General > PGM-FI/Diesel(Engine System)				⊞ 11.83V
			QPI	ease enter keyword
Crank (CKP) Pattern Clear				(i)
Crank (CKP) Pattern Learning				(i)



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Show Menu					₽
HONDA V49.20 > 16PIN DLC > General > PGM	-FI/Diesel(Engine System)				🖽 11.86V
			QPle	ase ente	er keyword
Crank (CKP) Pattern Clear	Special Function				
Crank (CKP) Pattern Learning	This Function Performs Crank(CKP) Patt Learn With The Vehicle Parked. If This Function Is Not Applicable To The Vehicle Being Serviced, Perform The Crank Patte Learn Procedure In The Service Manual Test Condition: -Vehicle Speed: 0 -Shift Position: P -ECT: Above 167[Degree F](75[Degree C]) -ATF TEMP: Above 113[Degree F](45[Deg C])	e rn rnee			
	CANCEL				
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16. After checking that all the test conditions are met, click OK.

17. The software checks whether the test conditions are normal.

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Crank (CKP) Pattern Clear					
Crank (CKP) Pattern Learning					
	Notes				
	Communicating, Please Wait				
	END SESSION				
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Crank (CKP) Pattern Clear					
Crank (CKP) Pattern Learning					
	Special Function				
	Turn The Ignition Switch Off				
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18. Turn off the ignition switch as prompted, and then click OK.

19. Turn on the ignition switch as prompted, and then click OK.



20. Start the engine as prompted and then click OK. Before starting the engine, the hybrid vehicle must be switched to the maintenance mode.



21. Depress the accelerator pedal to increase the engine speed to over 3500 RPM.

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Special Function	î	Ź	•••	F
HONDA V49.20 > 16PIN DLC > General > PGM-FI/Diesel(Engine System)				⊞ 11.86V
Crank (CKP) Pattern Learning				
Snap The Accelerator Pedal With The Target Engine Speed Of 3500rpm.				
Engine Speed: 576 RPM				
Exit				
SN:989347213175 FIT HYBRID - JAZZ HYBRID 2021 VIN JHMGR3850M				
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22. Release the throttle and click OK.

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Special Function					ŀ
HONDA V49.20 > 16PIN DLC > General > PGI	M-FI/Diesel(Engine System)				🖽11.86V
Crank (CKP) Pattern Learning					
Snap The Accelerator Pedal With Th	he Target Engine Speed Of 3500rpm.				
Engine Speed: 3328 RPM					
	Special Function				
	Please Release The Throttle				
	ок				
	Exit				
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23. The new crankshaft (CKP) sensor matching value has been written to the ECM/PCM, and the crankshaft (CKP) sensor matching value learning is completed.

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Special Function				i P
HONDA V49.20 > 16PIN DLC > General > PGM-FI/Diesel(Engine System)				Ē⊒11.86V
Crank (CKP) Pattern Learning				
Snap The Accelerator Pedal With Th	e Target Engine Speed Of 3500rpm.			
Engine Speed: 3328 RPM				
	Special Function			
	CKP Pattern Learning Has Completed			
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