

SERVICE BULLETIN

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2019 QX50; IPDM E/R CONFIGURATION AFTER UNIT REPLACEMENT

APPLIED VEHICLES: 2019 QX50 (J55)

SERVICE INFORMATION

When replacing the IPDM E/R, for any reason, it must be configured to function properly.

Use CONSULT-III plus (C-III plus) Re/programming, Configuration to write (configure) the correct Type ID into the IPDM E/R.

For convenience, the configuration procedures (Read/Write and Manual) are provided in this bulletin with C-III plus screens.

NOTE:

- The vehicle will not start until IPDM E/R configuration is done.
- The correct Type ID for configuration is based on vehicle options.
- The part number externally marked on the IPDM E/R case is <u>not</u> the Type ID.
- The Type ID can only be read through Re/programming, Configuration function of the C-III plus.
- IPDM E/R configuration (Type ID) cannot be read through Work Support > ECU Identification. This will only show the part number that is marked on the outside of the case.

If the IPDM E/R is configured incorrectly, the symptoms shown below may occur.

Symptom	Cause
Fog lamps will not turn ON	No configuration
No cranking/No start, but ignition can be ON	No configuration
HLL (Head Light Leveling) DTC stored	Mis-selection of Type ID

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti retailer to determine if this applies to your vehicle.

SERVICE PROCEDURE

Before starting, make sure your ASIST has been synchronized to the current date and all C-III plus updates have been installed.

NOTE:

- There are two ways to configure the IPDM E/R; Read/Write or Manual.
- The preferred method is Read/Write, starting below.
- If Read/Write cannot be done, use Manual Configuration on page 10.

IPDM E/R Configuration (Read/Write)

NOTE:

- For Read/Write Configuration, the old IPDM E/R must be Read before it is removed from the vehicle.
- If the IPDM E/R has already been replaced, go to Manual Configuration on page 10.
- 1. Once all ASIST and CONSULT related updates have been performed, connect the CONSULT PC to the vehicle.
- 2. Connect the AC adapter to the CONSULT PC.
- 3. Turn ON the CONSULT PC, and then open C-III plus.
- 4. Turn the ignition ON, with engine OFF.
 - The meter and gauges will illuminate.
 - Do Not start the engine.
 - Make sure <u>all</u> accessories are turned OFF.

5. After the plus VI is recognized, select **Re/programming**, **Configuration**.

Connection Status	Clater					
	Status Do M	Diagnosis (One System)				
cognized	Normal Mode/Wireless connection	Diagnosis (All Systems)				
MI -	No connect	Re/programming, Configuration				
Select VI/N	лі	Immobilizer				
Application Setting	ABC Language Setting	Maintenance				

Figure 1

6. Click on the Confirmed Instructions box and then select Next.



Figure 2

- 7. Select QX50 and 2019 or Automatic Selection(VIN).
 - If the screen in Figure 3 does not display skip to step 9.
 - If Automatic Selection(VIN) is selected, wait for the Reading VIN screen to complete (picture not shown).
- 8. Select Select.

	Re/programmi Configuratio	ng,	Precaution	Vehicle Selection	Vehicle Confirmation	
is works, too	Automatic S	election(VIN)	Manual Select	ion(Vehicle Name)		
	ehicle Name :		0~		Model Year :	Sales Channel
	"INFINITI EX35 Camp:P8202	INFINITI G37 Convertible	INFINITI M45		2019MY	NISSAN
	INFINITI EX35	INFINITI G37 Coupe	INFINITI Q40 Sedan	INFINITI QX30	2017MY	INFINIT
	INFINITI FX35/FX45	INFINITI G37 Sedan	INFINITI Q45	INFINITI QX4	2016MY	DATSU
	INFINITI FX35/FX50	INFINITI 130		INFINITI QX50	2015MY	
	INFINITI FX37/FX50	INFINITI 135	INFINITI Q50 Hybrid	INFINITI QX56	2014MY	
	INFINITI G20	INFINITI JX35	INFINITI Q60	INFINITI QX60		
	INFINITI G25/G37 Sedan	INFINITI M35/M45	INFINITI Q60 Convertible	INFINITI QX60 Hybrid		
	INFINITI G35 Coupe	INFINITI M35h	INFINITI Q60 Coupe	INFINITI QX70		CLEAR
	INFINITI G35 Sedan	INFINITI M37/M56	INFINITI Q70	INFINITI QX80		

Figure 3

- 9. Verify the VIN in VIN or Chassis # matches the vehicle.
- 10. If the correct VIN exists, select Confirm.

	CONSULT-III plus Ver.83.20 Ver.CSP46.20	VIN:JN1CV7EL9HM320032	Vehicle : -	Country : United States
	Reiprogramming, Configuration	Capture Mode Data Vehicle Selection Vehicle	Confirmation	MI Constant
Verify -	Please confirm selected information touch "Change".	and touch "Confirm". In case y	you want to select another vehicle	A.
here	Vehicle Name :		INFINITI QX50	
			1/1	▶
			If OK, select Confirm	Confirm

Figure 4

11. Select Confirm.

Back Home P	int Scoren Capture	Meistermant Mode	Accorded Cata	1247 V	×	
Configuration	Vehicl	e Contirmation	Input VIN			
Enter the VIN number, a According to this operat CONSULT, VIN number	nd touch "Confirm ion, in case of spec you input is saved	". cified operation th as file name. Ther	at requires to save f efore, confirm VIN n	ECU information ir umber correctly.	nto	
VIN (17 or 18 digits)	XXXXXXXXX		(X	~		
						Confirm
						Counse,

Figure 5

- 12. Select IPDM E/R.
 - Wait for system call to complete.

NOTE: If IPDM E/R cannot be selected or is missing, go to Manual Configuration on page 10.

Re/programming, Configuration	Input VIN System Selection	Operation Selection
tem Selection		
ouch "system". case ECU you want to operate is r	not listed below, the vehicle or model year might b	be selected wrong.
ENGINE	EPS/DAST 3	LASER/RADAR
ENGINE MULTI AV	EPS/DAST 3 ABS	LASER/RADAR AUTO DRIVE POS.
ENGINE MULTI AV 3ch CAN GATEWAY	EPS/DAST 3 ABS IPDM E/R	LASER/RADAR AUTO DRIVE POS. BCM
ENGINE MULTI AV 3ch CAN GATEWAY 6ch CAN GATEWAY	EPS/DAST 3 ABS IPDM E/R AIR PRESSURE MONITOR	LASER/RADAR AUTO DRIVE POS. BCM SONAR

Figure 6

13. Select Read/Write Configuration.

Operation Selection	
Touch "Operation": In case over write current ECU, touc In case replacement of ECU, select an	h "Reprogramming". operation in REPLACE ECU category.
REPROGRAMMING	
Reprogramming	In case you want to reprogramming ECU, touch "Reprogramming".
Replacement OF ECU Programming (Blank ECU)	
Programming	In case you want to replace ECU, you should operate followings. Before replace ECU, ECU data is saved to CONSULT. After replace ECU, CONSULT writes ECU data and programming data.
VEHICLE CONFIGURATION	
	In case you has bleady replaced ECU

Figure 7

14. Select Before ECU Replacement.

	46	TO OT HOLED					-		States
Back	Home	Print Screen	Screen Capture	Measurement F	Recorded Data	ERT	14.5V		
50	Re/programming, Configuration		System	n Selection	Operation Selection	on			
Operation	Selection	-							
Touch "(In case o In case re	Operation". over write curr eplacement of	ent ECU, to ECU, select	uch "Repr an operati	ogramming". on in REPLACE	ECU category.				
REPRO	GRAMMING		10-				al "Dem		1
	Reprogra	mming		case you want t	o reprogramming E	200, tot	ich Kepr	ogramm	ing .
Replace	ement OF EC	U	_						
Program	mming (Blank E	CU)				-			
	Before Replace	ECU ement		After ECU	Replacemer	nt to	ouch "Be peration I CONSUL	og with .T.	D Replacement", part number is save
		TION							
VEHICL	E CONFIGURA								

Figure 8

15. Select End.

Configuration	Save ECO Data	7/7
)peration Log and Vehicle specification (o back to Home Screen. And refer to Se After replacement of ECU, touch "Configu	(Configuration data) have been saved to CONSULT. Touch "End" ervice Manual, and replace ECU. uration" on Home Screen to continue to write configuration.	
ile Label	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
/ehicle	INFINITI QX50	
System	IPDM E/R	
Part number/Type ID	284B7-XXXXX	
² art number/Type ID 3aved Date	284B7-XXXXX 10/25/2018 8:53:28 AM	hor

Figure 9

16. Replace the IPDM E/R.

- Refer to the Electronic Service Manual (ESM) for IPDM E/R replacement.
- ELECTRICAL & POWER CONTROL > POWER CONTROL SYSTEM > IPDM E/R > REMOVAL AND INSTALLATION > IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

NOTE: Continue to the next step after the IPDM E/R has been replaced.

- 17. Navigate C-III plus to the screen shown in Figure 10 (refer to steps 1-13).
- 18. Select After ECU Replacement.

Back Home Print Screen Sci	reen pture Mode Recorded Data	AT 14.5V VI MI
Re/programming, Configuration	System Selection Operation Selection	6/
peration Selection		
ouch "Operation". n case over write current ECU, touch n case replacement of ECU, select an c	"Reprogramming". operation in REPLACE ECU category.	
REPROGRAMMING	In case you want to reprogramming ECU	touch "Reprogramming".
Reprogramming		
Replacement OF ECU Programming (Blank ECU)		
Before ECU Replacement	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is saved to CONSULT.
VEHICLE CONFIGURATION		
		Touch "Before ECU Replacement",

Figure 10

19. Select OK.

Back Home Print Screen Screen	Messurement Mode Recorded Data	Image: Weight Help Image: Weight Help Image: Weight Help Image: Weight Help Image: Weight Help Image: Weight Help	
Re/programming, Configuration	Selection Log Write Co	Prin Operati	t Result / on Complete 6/7
Write Configuration			
Following setting value for each item are Confirm setting value for each items, if OK	saved to vehicle ECU. touch "OK" to save them to	o vehicle ECU.	
IPDM E/R			
	Type ID		
	284M1 - XXXXX		
		_	Cancel

Figure 11

20. Select End.

Back Home Print Screen Cepture	Measurement Reco	eded Help	ERT 14.5V VI		
Re/programming, Configuration Write	Configuration	Print Result / Operation Complete			10/10
Print Result / Operation Complete					
Write Configuration has been successfully Touch "End" to finish operation, and to bac	v completed. k to Home Screen. (Confirm each func	tion works correc	tiy.	
IPDM E/R					
	Type ID				
2	284M1 - XXXXX				
					Print
					Other operation
					End

Figure 12

21. Close C-III plus.

NOTE: If Read/Write configuration has completed successfully, <u>stop here</u>. Manual configuration is not needed.

IMPORTANT:

- Manual Configuration will require obtaining the Type ID number (Number) from the Electronic Parts Catalog (EPC).
- The EPC will display the Type ID number in a column titled Number.
- 22. Obtain the Type ID number (Number) from the Electronic Parts Catalog (EPC) as follows.
 - a. Open the EPC.
 - b. Enter the VIN in the "Search by" field.
 - The screen in Figure 14 will then display.

	• Г		EPC	 Powered by: MICROCAT. Live.
1 Identify V	Vehicle 2 Select Parts 3 Orders	Enter the	VIN	
우 You are her	e Please identify a vehicle.	7/-		
Vehicle Searc	h	íν	Parts Search	
Search by	[VIN/ License Plate/ Model Code]		[Enter search criteria]	▼ Part number ▼ Q ✓
Customer Tag	Type Customer Tag]		Vehicle Index - 119 results	
	Q Search			
Catalog Searc	ch	$(\mathbf{i})\nabla$		
Brand	All			
Model Year	All			
Region	[US] USA		20052 (1070 - 1083)	2005Y (1083 - 1088)
Model	All		20057 (1979 - 1903)	20037 (1903 - 1900)
		•		
			-0-0-	
			2807 X (1078 - 1092)	3007X (1083 - 1080)
			2002 V (1910 - 1983)	JUULA (1903 - 1909)
			10	

Figure 13

- c. Verify "Part number" is selected in the drop down menu as shown.
- d. Enter 284M1 in the field shown.
 - This is the first 5 digits of the IPDM E/R Type ID number.



Figure 14

- e. Write this **Number** on the repair order. It will be used to perform Manual Configuration.
 - This is the Type ID number.

HISSAN	oroup) /ehicle	2 Selec	ct Parts 3 Orders Library	EPC MICRO	CAT Live	C Ders	New session		United Stat
Vou a Parts 284M1	are hei Searc	re h (QX50	QX50 (2017 0 (2017 -)) .	02/2018 pss Catalog					
Searc	ch Res	ults	_			t II 🖈 🛱 P	Ler the search	realls of the cur	eccal (David	Qu)
		Lookup	Part Code 284B3N	Number 284M1 XXXXX	Description TYPE -ID_ID_NO_FOR IPDM ENGINE ROOM	Applicability: WAG (LDXE+ESSENT+SENSORY+AL/TOGRPH)	Qty 1	Retail	VC	From Fi/2017
8			Ni num	umber (Type ID ber) will be shown here.						



- 23. Replace the IPDM E/R.
 - Refer to the ESM for IPDM E/R replacement.
 - ELECTRICAL & POWER CONTROL > POWER CONTROL SYSTEM > IPDM E/R > REMOVAL AND INSTALLATION > IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
- 24. Once all ASIST and CONSULT related updates have been performed, attach the CONSULT PC to the vehicle.
- 25. Connect the AC adapter to the CONSULT PC.
- 26. Turn ON the CONSULT PC, and then open C-III plus.
- 27. Turn the ignition ON, with engine OFF.
 - The meter and gauges will illuminate.
 - Do Not start the engine.
 - Make sure <u>all</u> accessories are turned OFF.
- 28. After the plus VI is recognized, select **Re/programming**, **Configuration**.

	Serial No.	Status	Diagnosis (One System)
VI	2314224	Normal Mode/Wireless	Diagnosis (All Systems)
мі		No connectio	Re/programming, Configuration
0	Select VI/MI		Immobilizer
plicat	tion Setting Sub mode	ABC Language Setting	Maintenance

Figure 16

29. Click on the Confirmed Instructions box and then select Next.



- 30. Select QX50 and 2019 or Automatic Selection(VIN).
 - If the screen in Figure 18 does not display skip to step 32.
 - If Automatic Selection(VIN) is selected, wait for the Reading VIN screen to complete (picture not shown).
- 31. Select Select.

	Configuration	ng,	Precaution	Vehicle Selection	Vehicle Confirmation	
is works,	Automatic Se	election(VIN)	Manual Select	ion(Vehicle Name)		
100	ehicle Name :		0~		Model Year :	Sales Channel
	"INFINITI EX35 Camp:P8202	INFINITI G37 Convertible	INFINITI M45		2019MY	NISSA
	INFINITI EX35	INFINITI G37 Coupe	INFINITI Q40 Sedan	INFINITI QX30	2017MY	INFINIT
	INFINITI FX35/FX45	INFINITI G37 Sedan	INFINITI Q45	INFINITI QX4	2016MY	DATSU
	INFINITI FX35/FX50	INFINITI 130		INFINITI QX50	2015MY	-
	INFINITI FX37/FX50	INFINITI 135	INFINITI Q50 Hybrid	INFINITI QX56	2014MY	
	INFINITI G20	INFINITI JX35	INFINITI Q60	INFINITI QX60		
	INFINITI G25/G37 Sedan	INFINITI M35/M45	INFINITI Q60 Convertible	INFINITI QX60 Hybrid		
	INFINITI G35 Coupe	INFINITI M35h	INFINITI Q60 Coupe	INFINITI QX70		CLEAR
	INFINITI G35 Sedan	INFINITI M37/M56	INFINITI Q70	INFINITI QX80		

Figure 18

- 32. Verify the VIN in VIN or Chassis # matches the vehicle.
- 33. If the correct VIN is displayed, select Confirm.

	Re/programming. Vehic	te Selection Vehicle Confirmation
	touch "Change".	
ify		
re 🔽	VIN or Chassis #	
]	Vehicle Name :	INFINITI QX50
	Model Year	2019MY
		1/1
		c

Figure 19

34. Select Confirm.

	USP EV.EI	-			ocaura
Back Home P	tint Screen Capture	Recorded Mode	O Help	12.6V VI	X = _ X
Refprogramming. Configuration	Vehicle Cor	ntirmation In	put VIN		P
Input VIN					
Enter the VIN number, a According to this operat CONSULT, VIN number	nd touch "Confirm". Ion, in case of specified you input is saved as fil or outcomes to success to	d operation that require le name. Therefore, co	es to save ECU in nfirm VIN number	formation into	
VIN (17 or 18 digits)	xxxxxxxxxx	xx xxxxxx		~	-
					Confirm

Figure 20

35. Select IPDM E/R.

• Wait for system call to complete.

Image: Section Imput VIN System Selection Operation Selection System Selection Toput VIN System Selection Imput VIN Touch "system". Imput VIN System Selection Imput VIN System Selection Imput VIN System Selection Imput VIN Solution	CONSULT-III plus Ver.83.20 Ver.CSP46.20	VIN:3PCAJ5M19KF102709	Vehicle : INFINI	TI QX50 J55 2019	Country : United States
Resprogramming. Input VIN System Selection System Selection Input VIN Operation Selection Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong. ENGINE EPS/DAST 3 LASER/RADAR MULTI AV ABS AUTO DRIVE POS. 3ch CAN GATEWAY IPDM E/R BCM 6ch CAN GATEWAY AIR PRESSURE MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA	Back Home Print Screen	Screen Capture Mode Recorded Data	Help ERT	14.5V VI MI	
System Selection Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong. ENGINE EPS/DAST 3 LASER/RADAR MULTI AV ABS AUTO DRIVE POS. 3ch CAN GATEWAY IPDM E/R BCM 6ch CAN GATEWAY AIR PRESSURE MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA	Configuration	Input VIN Syste	em Selection	Operation Selection	5/6
Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong. ENGINE EPS/DAST 3 LASER/RADAR MULTI AV ABS AUTO DRIVE POS. 3ch CAN GATEWAY IPDM E/R BCM 6ch CAN GATEWAY AIR PRESSURE MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA	System Selection				
Ensine EPS/DAST3 LASER/RADAR MULTI AV ABS AUTO DRIVE POS. 3ch CAN GATEWAY IPDM E/R BCM 6ch CAN GATEWAY Air PRESsure MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA	In case ECU you want to operate is r	not listed below, the vehicle or m	odel year might b	e selected wrong.	PADAD
MULTI AV ABS AUTO DRIVE POS. 3ch CAN GATEWAY IPDM E/R BCM 6ch CAN GATEWAY AIR PRESSURE MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA 1/2	ENGINE	EPS/DAST	•	LASER	RADAR
3ch CAN GATEWAY IPDM E/R BCM 6ch CAN GATEWAY AIR PRESSURE MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA	MULTI AV	ABS	_	AUTO DI	RIVE POS.
6ch CAN GATEWAY AIR PRESSURE MONITOR SONAR EHS/PKB METER/M&A LANE CAMERA	3ch CAN GATEWAY	IPDM E/R		B	см
EHS/PKB METER/M&A LANE CAMERA	6ch CAN GATEWAY	AIR PRESSURE N	IONITOR	so	NAR
1/2	EHS/PKB	METER/M8	IA	LANE	CAMERA
1/2					
112					1/2

Figure 21

36. Select Manual Configuration.

Back Boom Print Science	
Configuration	System Selection Operation Selection
eration Selection	
rouch "Operation": n case over write current ECU, tour n case replacement of ECU, select a	ch "Reprogramming". n operation in REPLACE ECU category.
REPROGRAMMING	In case you want to reprogramming ECU, touch "Reprogramming".
Reprogramming	
Replacement OF ECU	
Programming	In case you want to replace ECU, you should operate followings. Before replace ECU, ECU data is saved to CONSULT. After replace ECU, CONSULT writes ECU data and programming data.
VEHICLE CONFIGURATION	
Read / Write	Manual Configuration

Figure 22

- 37. Use the arrows to locate and select the correct **Type ID**.
 - This is the Number that was written down from the EPC.
- 38. Select Next.

Back Bome Print Screen	Screen Capture	Recorded Data	ERT 14.5V		
Re/programming, Configuration	Writing method selection	Manual Configuration	Write Con	figuration	8/10
Manual Configuration					
Select the Type ID listed in FAST	' (Service parts catalog) fr	rom the following ta	ble, and then touch	"Next",	
IPDM E/R					
<u></u>	Type ID				
	284M1 - XX	XXX			
	284M1 - XX	XXX			
					Cancel
			2/2		Next
	F	Figure 23			

39. Select OK and wait for the data to transfer.

Back Home Print Screen Capture	Measurement Mode Manual	Help ERT 14.5V	VI MI
Configuration	onfiguration Write Co	Operation Operation	on Complete 9/10
Write Configuration			
Following setting value for each item are Confirm setting value for each items, if OK	saved to vehicle ECU, touch "OK" to save them to	vehicle ECU.	
IPDM E/R			
	Type ID		
	284M1 - XXXXX		
			Cancel
			ок

Figure 24

40. Select End.

ack Home Print Screen	Screen Messurement Recorded Data Help ERT 14.5V VI MI
Configuration	Operation Complete
t Result / Operation Complete	issfully completed
ouch "End" to finish operation, and	to back to Home Screen. Confirm each function works correctly.
IPDM E/R	
	Type ID
	284M1 - XXXXX
	Prin
	Othe
	Operat
	Eng

Figure 25

41. Close C-III plus.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
November 14, 2018	ITB18-038	Original bulletin published