

No: C10126 Issued: 2/16/2024 NHTSA No: 24V072 Transport Canada No: N/A

SUBJECT:

Safety Recall C10126 - HV System Shows 0% State of Charge While Driving

MODELS:

FEC7K (E16L/E16M), FEC9K (E18L/E18M)

VEHICLES INVOLVED:

Certain 2024 model year FEC7K and FEC9K trucks.

A list of vehicles your Dealership has sold that require this Recall can be found on the "Open Campaigns" list supplied by MFTA. Some individual vehicles described above may not need the Recall as the repairs may have already been performed. Always check the VIN inquiry on Falcon to verify that the VIN requires this Safety Recall.

Important note: It is a violation of Federal law for a dealer to deliver a new or used motor vehicle covered by this Recall Information Bulletin, under a sale or lease, until the Safety Recall has been completed.

OWNER NOTIFICATION:

No vehicles affected by this Safety Recall have been delivered to retail customers.

CONDITION:

Mitsubishi Fuso Truck of America, Inc. has decided that a defect, which relates to motor vehicle safety, exists in the vehicle control unit (VCU) on certain 2024 model year FEC7K (E16L/E16M) and FEC9K (E18L/E18M) RIZON trucks. An internal malfunction in the control unit causes a direct charging box sequential counter error, resulting in a 0% state of charge (SoC). If the vehicle is in motion and the SoC is displayed as 0%, the vehicle will come to a gradual stop. If vehicle is stationary, it will not move. If the vehicle continues to be operated in this condition, and displays a 0% SoC while in motion, it could result in a crash without warning.

MODIFICATION:

The VCU and instrument panel control unit (ICUC) will be reprogrammed with software correcting the direct charging box sequential counter error.

PARTS PROCUREMENT:

N/A

RECALL CLAIM SUBMITTAL:

Reimbursement claims are filed through FALCON using the Field Fix claim type. Enter all requested information. The system will automatically apply the labor allowance. If repair parts were needed, enter those part numbers in the OEM section of the FALCON Field Fix claim.

Campaign Reimbursement						
Campaign Number Models Allowances Labor Description Repair Pa					Repair Parts	
C1012610	FEC9T	Labor Time	1.7 hours	Reprogram the VCU	N/A	

REPAIR PROCEDURE:

- 1. Park the vehicle on a flat, level surface, turn off the engine and chock the wheels.
 - CAUTION!

Do not remove the wheel chocks until all modification work has been completed.

2. Reprogram the VCU and ICUC using instructions found in the Modification Procedure on the next page.

MODIFICATION PROCEDURE

Notes:

• Ensure that XENTRY software version <u>"FD09/2023 with update patch file 1"</u> or <u>"DTD12/2023 with</u> 1/8 AddOn 30279" software version is installed.

• Check for any diagnosis trouble codes (DTC) before reprogramming the VCU software. Any DTCs must be remedied before reprogramming.

• Confirm a secure connection between the XENTRY interface, the PC and the vehicle.

• While the software is being rewritten, the headlights and taillights will turn on and the 12V vehicle battery will lose power. Please be sure to supply power to the 12V vehicle battery during software reprogramming.

VCU reprogramming

• The VCU software can be reprogrammed from the "Initial start-up" - "Reprogramming" screen of the corresponding ECU.

• Before reprogramming, download the corresponding vehicle's ECU file from the Field Rewrite Network (FRN) (Refer to FD operation manual F6-010: FRN).

• It is necessary to copy the downloaded FRN file to a USB drive and load it onto the XENTRY laptop (see FD Instruction Manual F2-070: Copy from USB memory).

• After reprogramming, upload the FRN file to the FRN server (refer to FD Instruction Manual F6-010: FRN (Field Rewrite Network)).

— Important

While rewriting the software, the following vehicle behavior will occur, so please proceed with caution. Exterior lamps (head lamps, tail lamps) will turn on.





VCU software updating procedure

Download FRN file •

> It is necessary to copy the downloaded FRN file to a USB memory and import it into the computer on which the FD is set up (see FD Instruction Manual F2-070: Copy from USB memory).

- Perform Reprogramming
- Turn on the vehicle's ignition.



Click "Option 1: Control units".

(3) Click "Continue" button.

			🗂 12.4V	Ignition O	N 🖳		
ecial functions							
power take-off system (A102)	,						
management system (FMS)	Gateway (X0289)						^
Assist Control unit (A2)							
, ventilation and air conditioni	ng (A12)						
ent cluster Control unit (A11)							
ction camera 2 (A84)							
ce system (A2 a3)							
nsor (A15)							
asy Access ECU (A70)							
ge radar (A81)							
ental restraint system (A40)							
ontrol unit (A100)	(4)						
ssistance system (A53a)						(E
additional functions (A22)						(່
uick test	Cear fault memory	Open TIPS results	Implement test prerequisites	1	Tests	Continue	
ick "Continue" hutte							
ick continue butto	/11.						
osis > VCU - Vehicle Contro	ol unit (A100)		🗂 11.6V	Ignition O	N 🛄	e e	
es / Events Actual values Adaptatio	ns						
Control unit (A100)							
Part r	lumber	Supplier		Ve	ersion		
L23 4	46 54 72 001	Bosch		25	55/255 255		
015 4	58 65 35 002 6	Bosch		25	55/255 255		
015 4	58 66 35 002			25	55/255 255		
	58 67 35 002			25	55/255 255		
015 4					55/255 255		
015 4				25			
015 4 			variant	25	pp001		
015 4 ifier 00080 umber for bardware ML 23)1	Control unit v	variant	25 Aj	pp001	12 22 10 21 1	20
015 4 ifier 000BC imber for hardware ML233)1 5472	Control unit v Serial numbe	variant er of control unit	25 Ap	pp001 4 83 00 29 22 ()3 22 10 21 3	39
ifier 000BC umber for hardware ML23 identification number	01 5472 AAAAAAAAAAAAAAAA	 Control unit v Serial numbe Current vehic	variant er of control unit cle identification	25 At 94 number FE	pp001 4 83 00 29 22 0 EC9K610001X	03 22 10 21 3 XXXXX	39
ifier 000B0 umber for hardware ML233 identification number AAAA)1 5472 AAAAAAAAAAAAAAAA	 Control unit v Serial numbe Current vehic	variant er of control unit cle identification	25 Ar 94 number FF	pp001 4 83 00 29 22 (EC9K610001X)	03 22 10 21 3 XXXXX	39
ifier 000BC umber for hardware ML233 identification number AAAA)1 5472 AAAAAAAAAAAAAAAA	Control unit v Serial numbe Current vehic	variant er of control unit cle identification	25 Ar 94 number FE	pp001 4 83 00 29 22 0 EC9K610001X	03 22 10 21 3 XXXXX	39
ifier 000BC umber for hardware ML23 identification number AAAA)1 5472 AAAAAAAAAAAAAAAAA	Control unit v Serial numbe Current vehic	variant er of control unit cle identification	25 Ar 94 number FE	pp001 4 83 00 29 22 0 EC9K610001X	03 22 10 21 : XXXXX	39
ifier 000BC umber for hardware ML23 identification number AAAA)1 5472 AAAAAAAAAAAAAAAAA	Control unit o Serial numbe Current vehic	variant er of control unit cle identification	25 Ar 94 number FF	pp001 4 83 00 29 22 0 EC9K610001X	03 22 10 21 3 XXXXX	39
015 4 ifier 00080 umber for hardware ML23 identification number AAAA)1 5472 AAAAAAAAAAAAAAAAA	Control unit v Serial numbe Current vehic	variant er of control unit cle identification	25 Aş 94 number FE	pp001 4 83 00 29 22 0 EC9K610001X	03 22 10 21 3 XXXXX	39
015 4 ifier 000B0 Imber for hardware MI 23)1	Control unit v	variant	25 Ai	pp001 4 83 00 29 22 ()3 22 10 21	

6 Confirm that the software part number is the one shown in Table1 below before being rewritten. If the software part number is the same after rewriting, rewriting is not necessary.

Table 1 Software part number before rewriting					
	Software part number				
	Software part number before rewriting	Software part number after rewriting			
CB	A 005 458 50 35_003	۵ 015 <i>4</i> 58 77 35 001			
CD	A 015 458 65 35_002	× 013 430 // 35_001			
۵۵۱۸/	A 005 458 51 35_003	۵ 015 <i>4</i> 58 78 35 001			
A3W	A 015 458 66 35_002	× 013 450 70 35_001			
DS	A 005 458 52 35_003	A 015 / 58 79 35 001			
55	A 015 458 67 35_002	× 013 +38 /3 35_001			

> Diagnosis > VCU - Vehicle Cont	trol unit (A100)	🗂 12.4V	Ignition ON	💻	1 🚰 🤎	
Version Error codes / Events Actual values Adapta	tions					
Selection	Reprogramming					
Parameterization ^	Perform control unit programming.					^
□ Initial startup (7)	The following operation steps must be performed	before contin	nuing:			
Control unit replacement	 Switch off ignition. 					
Reprogramming	You will be guided through the following steps:					
Reset of coding	 Programming of new control unit software 					
	Reset of coding					
	Redocumentation					
					8	
						~
~					Continue	e .
(7) Click "Reprogrammin	g".					
(8) Click "Continue" but	ton					

Diagnosis > VCU - Vehicle Control	rol unit (A100)	🗂 12.5V	Ignition ON	💻 🚰	🚰 🛸
Version Error codes / Events Actual values Adaptat	tions				
Selection	Reprogramming				
	Switch on ignition.				^
j Initial startup	Press button 'Continue' to continue.				
Control unit replacement					
Reprogramming					
Reset of coding					
⊕ Data transfer					
					9
v					Continue

(9) Click "Continue" button because the ignition is already switched on.

Diagnosis > VCU - Vehicle Co	ontrol unit (A100)	🟥 12.4	4V Ignition ON	- 🖳 🚰	in 1997 -
Version Error codes / Events Actual values Ada	ptations				
Selection	Reprogramming				
⊕ Parameterization	^				^
Initial startup	Authentication				
Control unit replacement	Enter inquiry number.				
Reprogramming					
Reset of coding	V				
⊕ Data transfer	Enter password.				
					1
	~ (Continue
Enter the inquiry nu(The alphabetical p	imber and password from art of the inquiry numbe	m FRN server. r must be entered in	capital letters	.)	

(1) Click "Continue" button.

> Diagnosis > VCU - Vehicle	Control unit (A100)	🖽 12.4V Ignition ON) 🛐 🚰 🛸
Version Error codes / Events Actual values	Adaptations		
Selection	Reprogramming		
	^ Select the drive which contains the control un	it software data.	~
⊡ Initial startup	Removable storage device C (19)		
Control unit replacement			
Reprogramming	Drive letter	Data status	
Reset of coding	C:	07/2017 (2017-07-14)	
Data transfer	•Software data is stored in drive C	;	
	L		
			(13)
	, (Contin ^{fm}
(12) Select the drive w	here the software data is saving.		

(13) Click "Continue" button.

Diagnosis > VCU - Vehicle Cont	rol unit (A100)	🗂 11.7V	Ignition ON	PD 🐴	🚰 🛸
Version Error codes / Events Actual values Adapta	lions				
Selection	Reprogramming				
Initial startup Control unit replacement	A new software version is available and can be inst Available software packages:	talled.			~
Reprogramming Reset of coding	Do you want to install the new software version?	J154587935			
⊕ Data transfer					
					I
				X No	Ves

- If installation software is available, it will be displayed as shown above.
 Confirm that the "After rewrite software part number" shown in the table2 below is displayed.
- (15) Click "Yes" button.

Table 2 Rewriting software part number

	Software part number				
	Software part number before rewriting	Software part number after rewriting			
CB	A 005 458 50 35_003	۵ 015 <u>458</u> 77 35 001			
CD	A 015 458 65 35_002	A 015 450 // 55_001			
Δ\$\M	A 005 458 51 35_003	۵ 015 <u>458</u> 78 35 001			
7.5W	A 015 458 66 35_002	A 013 430 70 35_001			
DS	A 005 458 52 35_003	۵ 015 <u>458</u> 79 35 001			
55	A 015 458 67 35_002	A 013 430 73 35_001			

Diagnosis > VCU - Vehicle Control unit (A100)		亡 12.4V	Ignition ON	PU 🚰		
Version Error codes / Events Actual value	es Adaptations	s				
Selection	R	teprogramming				
Parameterization	^ Pr	ogramming of new control unit software				^
⊖ Initial startup	Ple	ease wait				
Control unit replacement						
Kephanining			26%			 <u> </u>
Reset of coding						
🕀 Data transfer						
						ontinue
	~					 anticores - p

• The above screen will be displayed when re-writing starts.

>Diagnosis > VCU - Vehicle Control unit (A100)		🖆 11.2V Ignition ON 🛛 📃 🖥 🚰 🗭
Version Error codes / Events Actual values Ada	ptations	
Selection Parameterization	Reprogramming	^
Initial startup	Control unit information	
Control unit replacement	Designation	Value
Reprogramming	Control unit designation	A100 (Vehicle Control unit)
Reset of coding	Procedure carried out	Control unit programming
⊕ Data transfer	Serial number	
	New control unit software version:	
	Designation	Value
	MB object number for software (code)	0154587735001
	MB object number for software (code)	0154587835001
	MB object number for software (code)	0154587935001
	Previous control unit software version:	
	Designation	Value
	MB object number for software (code)	0154586535002
	MB object number for software (code)	0154586635002
	MB object number for software (code)	0154586735002
	~	Continue

The above screen will be displayed when re-writing ends.
 (16) Select the tab "Version".

Diagnosis > VCU - Vehicle Control unit (A100) Diagnosis > VCU - Vehicle Control unit (A100) 12.0V Ignition ON							
Version Error codes / Events Actual values Adaptations							
与VCU - Vehicle Control unit (A100)							
Model	Part number	Supplier	Version				
Hardware	L23 446 54 72 001	Bosch	255/255 255				
Software	015 458 65 35 002	Bosch	255/255 255				
Software	015 458 66 35 002		255/255 255				
Software	015 458 67 35 002		255/255 255				
Boot software			255/255 255				
Diagnosis identifier	000B01	Control unit variant	App001				
FUSO object number for hardware	ML235472	Serial number of control unit	94 81 00 16 24 06 22 12 59 45				
Original vehicle identification number	FECXKKJ00001XXXXX	Current vehicle identification number	FECXKKJ00001XXXXX				
		·					

• After the reprogramming is completed, select the tab "Version" and check that the software number in the blue frame is the same as in the operation manual.

Table 3 Rewriting software part number

	Software part number				
	Software part number before rewriting	Software part number after rewriting			
CB	A 005 458 50 35_003	۵ 015 <u>458</u> 77 35 001			
CD	A 015 458 65 35_002	A 013 430 // 35_001			
۵۵۱۸/	A 005 458 51 35_003	A 015 458 78 35 001			
7.5 10	A 015 458 66 35_002	A 013 438 78 35_001			
DS	A 005 458 52 35_003	۵ 015 <u>458</u> 79 35 001			
	A 015 458 67 35_002	A 013 430 73 35_001			

Extract FRN file / Upload FRN file

• Refer to FD operation manual "F6-010 FRN (Field rewrite network)", upload FRN file on FRN server.

Instrument Panel Control Unit (ICUC) software updating procedure

ICUC rewriting work

• The ECU software can be reprogrammed from the "Initial start-up" - "Reprogramming" screen of the corresponding ECU.

• Before reprogramming, you need to download the FRN file of the ECU of corresponding vehicle from FRN (Refer to FD operation manual F6-010: FRN).

• It is necessary to copy the downloaded FRN file to a USB memory and import it into the computer on which the FD is set up (see FD Instruction Manual F2-070: Copy from USB memory).

• After performing reprogramming, it is necessary to upload the FRN file to the FRN server (refer to FD Instruction Manual F6-010: FRN (Field Rewrite Network)).

Important

If the software rewriting fails and ICUC's display is remains blacked out, there is no back to initial state for the meter cluster. In that case, the ICUC must be replaced.

Procedure for reprogramming the ICUC

• Download FRN file

It is necessary to copy the downloaded FRN file to a USB memory and import it into the computer on which the FD is set up (see FD Instruction Manual F2-070: Copy from USB memory).

- Perform Reprogramming
- Turn on the vehicle's ignition.



(1) Click "eCANTER 23MODEL".

•	🖆 Ignition 🔛) 🖥 🚰 🛸
Please make a selection. Options Option 1: Control units		
Option 1: Control units	Option 2: ODX Control units	
ABS - Antilock brake system Control unit ASAM - Advanced signal acquisition and actuation module CDS - Central data memory Control unit CGW - Central gateway CLU - Gearshift lever CTP - Common Telematics Platform Control unit DAGW - ACTIVE ATTENTION ASSIST System DCDC - DC/DC converter EPTO - Electric power take-off system EHPS - Electrohydraulic power steering EMCM - Electric motor Control unit	BMS 1 - Battery management system 1 BMS 2 - Battery management system 2 BMS 3 - Battery management system 3 DCB - Direct current charge connection unit OBC 22KW - 22 KW Alternating current Charger OBL223 - 11 kW Alternating current Charger	
EPB - Electric parking brake HVAC - Heating, ventilation and air conditioning Control unit HSA - Hill Start Assist Control unit ICUC - Instrument cluster Control unit MPC 2 - Multifunction camera 2 MS - Maintenance system Control unit		3 Continue

Click "Option 1: Control units". Click "Continue" button.

2 3

-> Diagnosis	🗂 12.4V	Ignition ON	P		
Quick test view Special functions					
Search					
ePIO - Electric power take-on system (A102)					^
FMSGW - Fleet management system (FMS) Gateway (X0289)					
HSA - Hill Start Assist Control unit (A2)					
HVAC - Heating, ventilation and air conditioning (A12)					
ICUC - Instrument cluster Control unit (A11)					
MPC2 - Multifunction camera 2 (A84)					
MS - Maintenance system (A2 a3)					
RDF - Radar sensor (A15)					
SMK - FUSO Easy Access ECU (A70)					
SRR - Short range radar (A81)					
SRS - Supplemental restraint system (A40)					
VCU - Vehicle Control unit (A100)					
VRDU - Driver assistance system (A53a)				(จ
XMC - SAM with additional functions (A22)				6	• •
Start quick test	Implement test prerequisites	Tests		Continue	
(4) Click "ICUC".					

5 Click "Continue" button.

> <u>Diagnosis</u> > ICUC - Instru	ment cluster Control unit (A11)	🗂 11.4V	Ignition ON 🛛 🛒 📑 🛸
Version Error codes / Events Actual values	Actuations Adaptations		
🖮 ICUC - Instrument cluster Control ι	unit (A11)		
Model	Part number	Supplier	Version ^
Hardware		Continental	255/255 255
Software	034 448 90 21 005 6	Continental	23/12 00
Software	034 448 91 21 201	Continental	23/06 00
Software	034 448 92 21 003	Continental	23/12 00
Software	034 448 93 21 003	Continental	23/12 00
Software	034 448 94 21 003	Continental	23/12 00
Software	034 448 95 21 003	Continental	23/12 00
Software	034 448 96 21 003	Continental	23/12 00
Software	034 448 97 21 003	Continental	23/12 00
Software	034 448 98 21 003	Continental	23/12 00
Boot software			22/48 00
Diagnosis identifier	000800	Control unit variant	App_0800
FUSO object number for hardware	<u> </u>	Serial number of control unit	<u> </u>
Current unhigh identification number	- FECOREADODAVVVVV	Original uphials identification	FEODVC40004VVVVV

6 Confirm that the software part number (Total 9) is the one shown in Table1 below before being rewritten.

If the software part number is the same after rewriting, rewriting is not necessary.

	Software p	art number
	Software part number before rewriting	Software part number after rewriting
Software	A034 448 90 21 005	A034 448 90 21 013
Software	A034 448 91 21 201	A034 448 91 21 223
Software	A034 448 92 21 003	A034 448 92 21 011
Software	A034 448 93 21 003	A034 448 93 21 011
Software	A034 448 94 21 003	A034 448 94 21 011
Software	A034 448 95 21 003	A034 448 95 21 011
Software	A034 448 96 21 003	A034 448 96 21 011
Software	A034 448 97 21 003	A034 448 97 21 011
Software	A034 448 98 21 003	A034 448 98 21 011

Table 1 Software part number before rewriting

> Diagnosis > ICUC - Instrumen	t cluster Control unit (A11)	😳 11.4V	Ignition ON	📃 🔁	*
Version Error codes / Events Actual values Actua	ations Adaptations				13
Selection	Reprogramming Perform control unit programming. The following operation steps must be performed. • Switch off ignition. You will be guided through the following steps: • Programming of new control unit software • Reset of coding • Redocumentation	I before contin	uing:		^
7 Click "Reprogrammi	ng".				8 Continue
> <u>Diagnosis</u> > ICUC - Instrumen Version Error codes / Events Actual values Actua	t cluster Control unit (A11)	🖽 11.3V	Ignition ON	P	
Selection	Reprogramming				
Parameterization	Reprogramming				
	Switch on ignition.				· · · · · · · · · · · · · · · · · · ·
Control unit replacement Reprogramming Reset of coding	Press button "Continue" to continue.				
					9
					Continue

(9) Click "Continue" button because the ignition is already switched on.

	cluster Control unit (A11)	😁 11.4V	Ignition ON	PU 🄤	
Version Error codes / Events Actual values Actua	Adaptations				
Selection	Reprogramming				
Parameterization	^				^
j Initial startup	Authentication				
Control unit replacement	Enter inquiry number.	Ν			
Reprogramming		V			
Reset of coding					
Data transfer	Enter password.				
					Û Û
					Continue
(10) It will optor the inqui	in number and password from	EDN convor			
	iry number and password non				
(The alphabetical pa	irt of the inquiry number must	be entered in cap	oital letters.)	
(11) Click "Continue" but	ton.				
C					
> Diagnosis > ICUC - Instrument	cluster Control unit (A11)	🗂 11.3V	Ignition ON	🛄 🚮	
Version Error eader / Events Asturi values Astur					
version Error codes / Events Actual values Actua					
Selection	Reprogramming				
Selection	Reprogramming				
Selection ⊕ Parameterization	Reprogramming Select the drive which contains the contain	trol unit software data.			▲ ▲ ▲
Selection ⊕ Parameterization ⊖ Initial startup	Reprogramming Select the drive which contains the con Removable storage device	trol unit software data.			^
Selection ⊕ Parameterization □ Initial startup Control unit replacement	Reprogramming Select the drive which contains the con Removable storage device	trol unit software data.			
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming	Reprogramming Select the drive which contains the con Removable storage device C Drive letter	trol unit software data.	tus		
Selection Parameterization Initial startup Control unit replacement Reprogramming Reset of coding	Reprogramming Select the drive which contains the com Removable storage device C Drive letter C:	trol unit software data. 12 Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the com Removable storage device C Drive letter C:	trol unit software data. 12 Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device C Drive letter C:	trol unit software data. 12 Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device C Drive letter C: Software data is stored in	trol unit software data. 12 Data sta 07/2017 drive C	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	trol unit software data. 12 Data sta 07/2017 n drive C	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	trol unit software data. 12 Data sta 07/2017 drive C	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the contains Removable storage device Orive letter C: Software data is stored in	Data sta 07/2017	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	trol unit software data. Data sta 07/2017 drive C	tus (2017-07-14)		(13)
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	trol unit software data. Data sta 07/2017 drive C	tus (2017-07-14)		13
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	trol unit software data. Data sta 07/2017 drive C	tus (2017-07-14)		
Selection ⊕ Parameterization □ Initial startup Control unit replacement Reprogramming Reset of coding ⊕ Data transfer	Reprogramming Select the drive which contains the con Removable storage device Drive letter C: Software data is stored in	trol unit software data. Data sta 07/2017 drive C	tus (2017-07-14)		(13)

- It will select the drive which software data is saving.
 Click "Continue" button.

Diagnosis > ICUC - Instrument e	cluster Control unit (A11)	11.4V Ignition ON	💻 <table-of-contents> 🚰 🛸</table-of-contents>
Version Error codes / Events Actual values Actuati	Adaptations		
Selection	Reprogramming		
Parameterization ^	A new software version is available and can be inst	alled.	^
Initial startup	Available software packages:		
Control unit replacement	Flashware 0344489021_013 0344489121_007 0	344489221_007 0344489321	_007 0344489421_008 034
Reprogramming			
Reset of coding	Do you want to install the new software version?		
			(14)
			(15) ×
	<		· · · · ·
· · · · · · · · · · · · · · · · · · ·			📈 No 🛛 🗸 Yes
(14) If installation softwa	re is available, it will be displayed as sh	nown above.	

- Important -

Confirm whether the "Installable software part number" shown in the table 2 below is displayed.

(15) Click "Yes" button.

Table 2 Rewriting software part number

	Software p	art number
	Software part number before rewriting	Software part number after rewriting
Software	A034 448 90 21_013	A034 448 90 21 013
Software	A034 448 91 21_007	A034 448 91 21 223
Software	A034 448 92 21_007	A034 448 92 21 011
Software	A034 448 93 21_007	A034 448 93 21 011
Software	A034 448 94 21_008	A034 448 94 21 011
Software	A034 448 95 21_007	A034 448 95 21 011
Software	A034 448 96 21_008	A034 448 96 21 011
Software	A034 448 97 21_008	A034 448 97 21 011
Software	A034 448 98 21_007	A034 448 98 21 011

> Diagnosis > ICUC - Instr	rument cluster Control unit (A11)	11.4V Ignition ON	📃 🐴 🚰 🛸
Version Error codes / Events Actual value	es Actuations Adaptations		
Selection	Reprogramming		
Parameterization	Programming of new control unit software	re	^
 Initial startup 	Please wait		
Control unit replacement			
New construction		1%	
Reset of coding			
			v
			Continue

• The above screen will be displayed when re-writing starts.

Version Error codes / Events Actual values	Actuations Adaptations			
Selection	Reprogramming			
Parameterization	Control unit information			
Initial startup	Designation	Value		
Control unit replacement	Control unit designation	A11 [C01] (Instrument cluster Control unit)		
Reprogramming	MB object number for hardware			
Reset of coding	Procedure carried out	Control unit programming		
 Data transfer 	Serial number			
	New control unit software version:			
	Designation	Value		
	MB object number for software (code)	0344489021013		
	MB object number for software (code)	MB object number for software (code) 0344489121223		
	MB object number for software (code)	object number for software (code) 0344489221011		
	MB object number for software (code)	0344489321011		
	MB object number for software (code)	ject number for software (code) 0344489421011		
	MB object number for software (code)	0344489521011		
	MB object number for software (code)	e (code) 0344489621011		
	MB object number for software (code)	0344489721011		
	MP object number for coffware (acdo)	MB object number for software (code) 0344489821011		

- The above screen will be displayed when re-writing ends.
 - (16) Select the tab "Version".

> Diagnosis > ICUC - Instrument cluster Control unit (A11)

-

11.1V Ignition ON



Version Error codes / Events Actual values	Actuations Adaptations		
ICUC - Instrument cluster Control	unit (A11)		
Model	Part number	Supplier	Version
Hardware		Continental	255/255 255
Software	034 448 90 21 013	Continental	23/51 00
Software	034 448 91 21 223	Continental	23/51 00
Software	034 448 92 21 011	Continental	23/51 00
Software	034 448 93 21 011	Continental	23/51 00
Software	034 448 94 21 011	Continental	23/51 00
Software	034 448 95 21 011	Continental	23/51 00
Software	034 448 96 21 011	Continental	23/51 00
Software	034 448 97 21 011	Continental	23/51 00
Software	034 448 98 21 011	Continental	23/51 00
Boot software			22/48 00
Diagnosis identifier	000800	Control unit variant	App_0800
FUSO object number for hardware	<u> </u>	Serial number of control unit	<u> </u>
Current unhight identification number	- FEODICIODALVVVVV	Original ushiels identification	FEODICIODAVVVVV

• After the reprogramming is completed, select the tab "Version" and check that the software number in the blue frame is the same as in the operation manual.

	Software part number	
	Software part number before rewriting	Software part number after rewriting
Software	A034 448 90 21_013	A034 448 90 21 013
Software	A034 448 91 21_007	A034 448 91 21 223
Software	A034 448 92 21_007	A034 448 92 21 011
Software	A034 448 93 21_007	A034 448 93 21 011
Software	A034 448 94 21_008	A034 448 94 21 011
Software	A034 448 95 21_007	A034 448 95 21 011
Software	A034 448 96 21_008	A034 448 96 21 011
Software	A034 448 97 21_008	A034 448 97 21 011
Software	A034 448 98 21_007	A034 448 98 21 011

Table 3 Rewriting software part number

Extract FRN file / Upload FRN file

• Refer to FD operation manual "F6-010 FRN (Field rewrite network)", upload FRN file on FRN server.