Vehicle Compliance & Analysis

TO: Mercedes-Benz Dealer Principals, General Managers,	FROM: Gregory Gunther, Senior Manager, Vehicle					
Sales Managers, Service Managers, Parts Managers	Compliance and Analysis, Engineering Services					
RE: Recall Campaign Launch Notification						
Update Communication Module SIM Card	DATE: May 3 2024					
Software – Wave 1	DATE. May 3, 2024					
MY19-22 Various Models						

IMPORTANT RECALL CAMPAIGN UPDATE

Please see the attached documents related to the campaign listed above.

Please note that all customer inquiries should be directed to the Customer Assistance Center at 1-800-FOR-MERCEDES.

Sincerely,

Gregory Gunther

Senior Manager, Vehicle Compliance & Analysis

Mercedes-Benz USA, LLC A Mercedes-Benz Group AG Company



News Channel Update Vehicle Compliance & Analysis

Recall Camp	aign Laund	h Notification	May 3, 2024								
Campaign No. :	NHTSA ID	Campaign Desc. :	Update Communication Module								
2023110006	22V365	23P5497319	SIM Card Software - Wave 1								
This is to notify you of th 2022 A-class, C-Class, (238, 463, 247, 253,	e <mark>Recall Campaign La</mark> CLA, CLS, E-Class, G- 167, 290, 217, 222 p questions from cust	unch to update the communica Class, GLA, GLB, GLC, GLE/GL latform). The recall campaign v omers. Affected VINs will be fla	ation module SIM card software in <u>2,000</u> Model Year ("MY") 2019- S, AMG GT 4-door, and S-Class vehicles (177, 205, 118, 257, 213, vill be visible on the www.NHTSA.gov website and may generate agged in VMI as "OPEN" on May 3, 2024 .								
Background											
Issue		Mercedes-Benz AG ("MBAG"), on certain MY 2019-2022 n software might inadvertently would not be able to establis manual and automatic eCall f arrival of emergency responde event.	, the manufacturer of Mercedes-Benz vehicles, has determined that nodels mentioned above, the communication module's SIM card become disabled. Should this occur, the communication module h a connection with a mobile phone network. In this case, both the functions would not be available, which could preclude or delay the ers. This could increase the risk of an injury following an emergency								
What We're Doing		ary recall. An authorized Mercedes-Benz dealer will update the ard software and replace the communication module, if necessary,									
Parts		The remedy is available and	l can be performed.								
		Vehicles Aff	ected								
Vehicle Model Year(s)		2019-2022	2019-2022								
Vehicle Model		A-class, C-Class, CLA, CLS, E- Class	Class, G-Class, GLA, GLB, GLC, GLE/GLS, AMG GT 4-door, and S-								
		Vehicle Popu	lations								
Total Recall Population		2,000									
Total Vehicles in Dealer	⁻ Inventory	0									
Given this notice, it notification until th Instructions will be Loaner and demonstra	is a violation of Fed e vehicle has been i available in NetSta ator vehicles may co	eral law for a dealer to sell o epaired. Once the remedy is r VMI and Xentry Portal. Onc ontinue to be driven, but mus	r lease any new vehicles in dealer inventory covered by this available, the vehicles will be flagged as "OPEN" and Work e the repair is complete, the vehicle may be sold or leased. st not be retailed until repaired. As a matter of normal service								
pro	ocess, please check	for other repair measures w	hich might be applicable to the vehicle(s).								
Additionally, given	n this notice, it is a	violation of Federal Law for c notification until the vehicle	ar rental companies to rent new vehicles covered by this has been repaired.								
		Next Steps/	Notes								
Customer Notification	Гimeline	Customer letters will be ma	ailed on May 17, 2024.								
AOMS/SOMS		AOMs – This recall may get your dealers ASAP.	nerate questions from your dealers. Please forward this notice to								
Rental Fleet Partners		This recall may affect vehicles in your fleet. Please contact your respective MBUSA fleet representative for further information and next steps. For repairs, please contact your preferred MBUSA dealer.									
Customer Reimbursem	ent	Customer reimbursement i	s being offered for this campaign.								
While we regret any inco P	onvenience this may o lease refer all custon	cause, MBUSA is determined to	maintain a high level of vehicle quality and customer satisfaction. ssistance Center at 1-800-FOR-MERCEDES.								

Mercedes-Benz USA, LLC A Mercedes-Benz Group AG Company



Recall Campaign Bulletin



Campaign No. 2023110006, May 2024

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: Various Models Model Year 2019 – 2022

<u>Recall Campaign Bulletin</u>

Recall Campaign Bulletin

SIM Card Communication Module – Wave 1

Mercedes-Benz AG, the manufacturer of Mercedes-Benz vehicles, has determined that on certain MY 2019-2022 A-class, C-Class, CLA, CLS, E-Class, G-Class, GLA, GLB, GLC, GLE/GLS, AMG GT 4-door, and S-Class vehicles (177, 205, 118, 257, 213, 238, 463, 247, 253, 167, 290, 217, 222 platform), the communication module's SIM card software might inadvertently become disabled. Should this occur, the communication module would not be able to establish a connection with a mobile phone network. In this case, both the manual and automatic eCall functions would not be available, which could preclude or delay the arrival of emergency responders. This could increase the risk of an injury following an emergency event. An authorized Mercedes-Benz dealer will update the communication module SIM card software and replace the communication module, if necessary, in affected vehicles.

Prior to performing this Campaign:

- VMI must always be checked before performing campaigns to verify that the campaign is required on a specific vehicle. Always check for any other open campaigns and perform accordingly.
- Please review the entire Campaign bulletin and follow the repair procedure exactly as described.

Approximately 2,000 vehicles are affected.

Order No. P-RC-2023110006

Recall Campaign Bulletin

SIM Card Communication Module – Wave 1

- **i** Always use the **latest** XENTRY Diagnosis software release with all available add-ons.
 - Make sure to follow the operation steps exactly as described in XENTRY Diagnosis.
 - Use a battery charger to ensure sufficient power supply of the vehicle **on-board electrical system battery** (greater than 12.5 V).
 - If XENTRY Diagnosis is already connected to the vehicle, start with Check/Test Procedure Step 2.

i If two or more software updates or SCN codings are performed during one workshop visit, operation items 02-4762 and 02-5058 may be invoiced **only once for each workshop order**.

Check/Test Procedure

- 1. Connect XENTRY Diagnosis.
- 2. Check data of SIM card in HERMES control unit (N112/9) with XENTRY Diagnosis (Figure 1).

i To do this, select menu item "Quick test view \rightarrow N112/9 'telematics services' (HERMES) communication module \rightarrow Actual values \rightarrow Activation status".

i In the event of a communication failure between XENTRY Diagnosis and the HERMES control unit (N112/9), disconnect/connect the ground line of the on-board electrical system battery ("hard reset"). If the problem persists, carry out **Work Procedures 3 and 4**.

i For basic information, see:

Models 205, 213, 253:	AR54.10-P-0003LW
Model 238:	AR54.10-P-0003LWO
Models 257, 290:	AR54.10-P-0003FR
Models 118, 177, 247:	AR54.10-P-0003MFA
Models 117, 156:	AR54.10-P-0003NKB
Models 166, 292:	AR54.10-P-0003GZ
Model 167:	AR54.10-P-0003ME
Model 172:	AR54.10-P-0003W
Model 190:	AR54.10-P-0003RG
Models 217, 222:	AR54.10-P-0003LF
Model 231:	AR54.10-P-0003RK
Model 293:	AR54.10-P-0003EQ
Model 463:	AR54.10-P-0003PV AR54.10-P-0003XG

	ENTRY Diagnosis					(A) Mercedes-Be	nz – 🗆 >	<
	> Diagnosis > N112/9 - Control unit fo	r telem	atics servi	ces (HERMES)	12.0V Igniti	on ON 🛛 📝 🛓	👌 静 🛸	
	Version Error codes / Events Actual values A	ctuations	Adaptations	Control unit log List of fault codes	Tests Author dat	a		
佡	Selection Power supply / Environmental	Ac ^ Ac	tivation sta tual values	itus				
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Figure 1

Work Procedure 1

1. Carry out commissioning of HERMES control unit (N112/9) with diagnostic system.

[i] To do this, select menu item "Quick test view \rightarrow N112/9 'Telematics services' (HERMES) communication module \rightarrow Adaptations \rightarrow Commissioning \rightarrow Commissioning of already installed control unit".

i Then follow the user guidance in XENTRY Diagnosis.

2. Ensure that the vehicle has sufficient mobile reception (Figure 2).

i To do this, select menu item "Quick test view \rightarrow N112/9 'telematics services' (HERMES) communication module \rightarrow Actual values \rightarrow Cellular telephone system and data communication".

Li Then follow the user guidance in XENTRY Diagnosis.

i The current actual value of the "Reception field strength Cellular telephone system" **must be 80%** or above **(Figure 2)**.

i If the current actual value of the "Reception field strength Cellular telephone system" is **below 80%**, **position the vehicle outside** to improve mobile reception. The poorer mobile reception is, the higher the probability that the over-the-air (OTA) update of the SIM card data in the HERMES control unit (N112/9) will not be successful.

	ENTRY Diagnosis				845.5 F		6	Mercedes-Be	nz – – ×	<.
-	> Diagnosis > N112/9 - Control unit for	telem	atics servi	ces (HERMES	S)	🗂 12.	0V Ignition	ON 📝 🛓	è 🍰 🛸	C.
	Version Error codes / Events Actual values Ac	tuations	Adaptations	Control unit log	List of fault codes	Tests	Author data			
合	Selection	Ce	lular telep	hone system	and data com	munica	itions			T
	Power supply / Environmental	^ Act	tual values							
8 m	Buttons		No.	Name				Actual value	Specified value	
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-	GPS data		026	Reception system	on field strength (Cellular	telephone	80%		
_	Cellular telephone system and		254	SIM card						
E										
	+ Telematic services									
	>>> Entwicklungsdaten									
~										
Figure	2									

Continue with Work Procedure 2 (update data of SIM card in HERMES control unit (N112/9) OTA).
 Ignition must be switched on and battery maintainer must be used during the OTA process.

Work Procedure 2

1. Log in to "NetStar" and call up the Vehicle Master Inquiry (VMI) screen (Figure 3).

N	NetStar	NEWS V Search News Articles and Microsites	Q	Neclasr contains confidential information	0	% ▲
6	SERVICE / VEHICLE INF	DRMATION				
	MULTIPLE VIN'S VIN	ANN Last 7 or 14, 17 character VIN/FIN FIND CLEAR	PRINT			RADIOCODE LOOKUP
F						
Leal						
Fig	qure 3					

2. Search for the vehicle identification number (VIN) (Figure 4).

i The **"OTA Update"** link becomes visible in the campaign table (next to Campaign Number 2023110006) in the VMI screen when the campaign is open for the selected vehicle.

D	NetStar	EWS · Search News Articles and	Microsites Q		NetStar contains confidential	information		0	% ♠
8	SERVICE / VEHICLE INFORMA	TION							
	MULTIPLE VIN'S VIN/TIN	Last 7 or 14, 17 character VIN/FIN	FIND CLEAR PRINT						RADIOCODE LOOKUP
-			ALERTS ()						
щ			UPRTTER VEHICLE Vehicle has HERMES module, but Mercedes PRO	0 connect is not active, check if customer wants ser	vices.				
	2019 UK7/M VIN WD4PF0CD2KT003937 []	2019 UK7/MB-419 KA 4X2 36 (1003937 🖞 FIN WD490764311003937	Open Campaign 2021030012 - VS3ORTUNK						
	Vehicle Status 0-NORMAL Upholstery VF7-Fabric Black	ENGINE # 64289942226940 Transmission # 72290210880116	CAMPAIGNS	HICLE CAMPAIGN STATUS					🦲 Open
	Paint 769-Dark Grey	Tire Brand	Campaign Number	Brief Description	Start Date	Status	Campaign Type	Actions	
	WARRANTY & SALE	PRODUCTION INFO Production Date 4/11/2019	2019120007	VS3KRAFMOD	12/19/2019	CLOSED	RECALL	Campaign Details	
	Retail Date 4/29/2019	Radio Serial #	2020020011	USVS3LIMIT	2/13/2020	CLOSED	SERVICE	Campaign Details	
	Selling Dealer 17114	Radio Code	2020030012	V\$3FLABIND	4/9/2020	CLOSED	RECALL	Campaign Details	
	REMOTE DIAGNOSTICS TEST	CHEATE CASE	2020030013	VS3SCHLENK	4/15/2020	CLOSED	RECALL	Campaign Details	
	Option Codes 🔟	E-PDI 🚰	2020040019	VS3BAUTOP	5/18/2020	CLOSED	RECALL	Campaign Details	
	PTSS Info []	Guides / Manuals C	2020040023	VS3BRADVER	5/19/2020	CLOSED	RECALL	Campaign Details	
	Service Sheets	Multi Point Inspection Form C	2020080012	VS3ZKUSRS	9/11/2020	CLOSED	SERVICE	Campaign Details	
	Service Bulletin	Electronic Test Data	2021020024	PDGHERMPOS	7/30/2021	CLOSED	RECALL	Campaign Details	
		Available Accessories	2021030012	VS3ORTUNKI	3/17/2021	OPEN	SERVICE	Campaign Details INDTA Update	
			2021050005	VS3BREBOL	6/4/2021	OPEN	RECALL	Campaign Details OTA Update	
			2022010005	V\$3PA27ERI	1/26/2022	OPEN	RECALL	Campaign Details OTA Update	

Figure 4 – In the "Actions" column, "OTA Update" is available, listed next to Campaign Number 2023110006

3. Click on the "OTA update" link (Figure 4).

i A pop-up window requesting an EID number for the OTA update will appear (Figure 5).

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		Available Accessories U	3021030012				SERVICE							
			2021050005	VS3BREBOL	6/4/2023	OPEN	RECALL							
			2022010005	VS3PAZ7ERI	1/26/2022	OPEN	RECALL							
			SERVICE PACKAGES						🖀 kapirat 😕 kapirag Sa					

Figure 5

4. Look up the valid EID number for the vehicle in "Vehicle Documentation" (VeDoc).

1	ΤI	To do this	, enter the VIN	, "Search"	, select "	'Control units",	and click on	"Hermes	 control unit" 	(Figure	6).
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Figure 6

5. Enter the valid EID number and click on "Submit" (Figure 7).

i To do this, enter the **EID1 + EID2** numbers from VeDoc **without spaces or special characters** as shown. (e.g.: 89033024208100862500000069027456 – **EXAMPLE ONLY**).

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Figure 7 – EID1 + EID2 input

i After you click "Submit", the following screens can be displayed depending on the results of the OTA Update: (Figures 8, 9, 10 11, and 12).



Figure 8 (screen on "NetStar" after the OTA update has been registered successfully) Status: OTA patch is successfully registered. Please check status after 10 minutes

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	WARRANTY & SALE	RANTY & SALE PRODUCTION INFO		Find EID in Control Tab > HERM Please be sure to copy and pase	n Control Tab > HERMES. The EID is 2 parts. sure to copy and pasts both parts (32 digits total) without spaces then e Over The Air Update. Is get a response within the next 10 minutes.	hout sources then	RECALL		
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	Available Accessories 🖉	2021036012	w.			SERVICE			
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			2022010005	VS3PA27ER	1/26/2022	OPEN	RECALL	Campaign Details DTA update	

Figure 9 (screen on "NetStar" if "OTA update" is clicked again during the OTA update process) Status: Started

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Paint 769-Dark Grey		Campaign Number	Please ensure the vehicle Use VeDos from the VENI	is running and in good network reception	area.	Campaign Type	Actions	
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		2022010005	VS3PA27ERI	1/26/2022	OPEN	RECALL		

Figure 10 (screen on "NetStar" if the OTA update was successful) Status: Completed

	vetstar	State -						U.S. State	
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	WARKATYY & SALE PRO Trainery Stars A28/2010 Door Partic Data A28/2019 Rain Saring Datas 171114 Rain	Production Info Production Date Arth/2019 Rates Sensit + Rates Cost		Find EID in Control Ta	Use VEDIc from the XENTRY Aftersales Partial to look up the VIN. Find EID in Control Tab > HERMES. The EID is 2 parts.				
				You should see a resp	y and paste both parts (32 digits total Air Update. sonse within the next 10 minutes.	without spaces then	SERVICE		
							REALL		
				EID: 89033024208100862	EID: 89033024208100862500000506278721				
	Option Cestra	14012	2020340019	Status: FAILED			RECALL		
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	Service Sheets		2020080012	*			SERVICE		
	Service Bulletin (2)	Dectroole Test Data	2021020024	2			RECALL		
		Available Accessories?	2021030012	×			SERVICE		
			2021050005	VSIBERBOL	6/4/2021	OPEN	RECALL		
			2022010005	V\$3842788	1/26/2022	OPEN	RECALL		

Figure 11 (screen on "NetStar" if the OTA update was not successful) Status: Failed – Error during execution of the command on the SM-SR. Could not communicate with card.

STRICE / VEHICLE INFORMATION									
MULTIPLEVINS VIKATIN LEST 707.14.17 DERICH VIKATIN TAKO CLEAN PAINT									
		Aum O							
		URANTER VEHICLE Vience next MERIES involue ibut Merceses RRD connect a not active, if customer vients services							
2019 UK7	MB-AM2CA46								
VIN WD4PF0CD2KT003937	FIN WD490764317003037								
Upholistery VF7-Fabric Black	Transmission # 72290210880116	CAMPAIGNS	CAMPAGINS MBUSA SIM Card Update Campaign Interface 2021050005						
Paint 769-Dark Grey	Tire Brand	Campaign Number	Piesse ensure the vehicle is run Use VeDoc from the XENTRY Aft Find EID in Control Tab > HERMI Piesse be sure to copy and pass then submit the Over The Air Up	ning and in good network reception area. tersales Portai to look up the VIN. ES. The ED is 2 parts. te both parts (2 digits total) without spaces pdate. in the next 10 minutes.	t spaces	Campaign Type	Actions		
WARRANTY & SALE	PRODUCTION INFO Production Date 4/11/2019 Radio Serial # Radio Code	2019120007				RECALL			
Retail Date 4/29/2019		2020020011							
Selling Dealer 17114		2020030012	 rou snoulo see a response within 			RECALL			
REMORE DALE-MOTING THEF.		2020030013	EID: 89641603100000943371000000	EID: 89641603100000943371000000100001		RECALL			
Option Codes	E-PDI C	2020040019	Status: FAILED The EIS Identified by this EID 8964160 to the function provider.			RECALL			
PTSS Info 1	Guides / Manuals	2020040023		503100000943371000000100001 Is unknown	unknown	RECALL			
Service Sheets 😭	Multi Point Inspection Form	2020080012	You exceed the OTA submit limit. Ple	ase follow next step in the Wor	•	SERVICE			
Service Bulletin 🗹	Electronic Test Data 🗷	2021020024	PL			RECALL			
	Available Accessories G*	2021030012			CLOSE SUBMIT				
		2021050005	VS3BREBOL	6/4/2021	OPEN	RECALL			
		2022010005	VS3PA27ERI	1/26/2022	OPEN	RECALL			

Figure 12 (screen on "NetStar" if three consecutive OTA updates were not successful) Status: Failed – The EIS identified by this EID ######## is unknown to the function provider. You exceed the OTA submit limit. Please follow next step in the work instructions

- a. If the data of the SIM card in the HERMES control unit (N112/9) is *not* updated OTA successfully after approx.
 7 minutes: Carry out Work Procedures 3 and 4.
- **b.** If the data of the SIM card in the HERMES control unit (N112/9) is updated OTA successfully: Carry out only **Work Procedure 4**.

Work Procedure 3

Replace HERMES control unit (N112/9).
 I For basic information, see:

Model 205:	AR82.95-P-0019LW AR82.95-P-0019LWM
Models 213, 238:	AR82.95-P-0019LWE
Model 253:	AR82.95-P-0019LWX AR82.95-P-0019LWG
Models 257, 290:	AR82.95-P-0019FR
Models 118, 177:	AR82.95-P-0019MFA
Model 117:	AR82.95-P-0019NKC
Model 156:	AR82.95-P-0019NKA
Models 166, 292:	AR82.95-P-0019GQB AR82.95-P-0019GQA

Model 167:	AR82.95-P-0019ME
Model 172:	AR82.95-P-0019WM
Model 190:	AR82.95-P-0019RG AR82.95-P-0019RGR
Models 217, 222:	AR82.95-P-0019LF
Model 231:	AR82.95-P-0019RKM
Model 247:	AR82.95-P-0019MFB
Model 293:	AR82.95-P-0019EQ
Model 463:	AR82.95-P-0019GW AR82.95-P-0019XG

2. Carry out commissioning of HERMES control unit (N112/9) with diagnostic system.

 $\boxed{\mathbf{i}}$ To do this, select menu item "Quick test view \rightarrow N112/9 'Telematics services' (HERMES) communication module \rightarrow Adaptations \rightarrow Commissioning \rightarrow Control unit replacement and commissioning of new control unit". $\boxed{\mathbf{i}}$ Then follow the user guidance in XENTRY Diagnosis.

3. Continue with Work Procedure 4 (function test of HERMES control unit (N112/9) with diagnostic system).

Work Procedure 4

1. Carry out function test of HERMES control unit (N112/9) with diagnostic system.

[i] To do this, select menu item "Quick test view \rightarrow N112/9 'telematics services' (HERMES) communication module \rightarrow Actuations \rightarrow Self-test".

i Then follow the user guidance in XENTRY Diagnosis.

i The result of the function test of the HERMES control unit (N112/9) with the diagnostic system must be **Successful**.

2. Disconnect XENTRY Diagnosis.

Primary Parts Information

Qty.	Part Name	Part Number
As required (1)	HERMES control unit (N112/9) 3.0	A 238 900 12 05
•		

iSmall parts such as screws, lock nuts, sealing rings, cable ties, fluids, sealant, etc. are not listed in the parts list. The required small parts are taken into account in the budgeting.

iNote: The following allowable labor operation should be used when submitting a warranty claim for this repair: <u>Warranty Information</u>

Damage Code	Operation Number	Description	Labor Time (hrs.)		
	02-4762*	Connect/disconnect diagnostic system (XENTRY Diagnosis)	0.1		
54 973 19	02-5058*	Connect/disconnect starter battery charger (with XENTRY Diagnosis connected)	0.1		
	12-1906	Check data of SIM card in HERMES control unit (with XENTRY Diagnosis connected)			
	12-2005	Disconnect/connect ground line of on-board electrical system battery in case of communication failure (with XENTRY Diagnosis connected) Models 117, 118, 156, 172, 177, 190, 231, 247 Model 205 (family 65) with model codes 17, 49, 75, 80 Model 205 (family 66) with model codes 17, 49 Model 205 (family 69) with model codes 81, 83, 85 Model 222 with model codes 10, 20, 30, 40, 56-59, 61, 62, 65, 67-69, 70, 80 Model 463 (family 76) with model codes 10, 20, 30, 40, 89, 90	0.2		
	12-2005	Disconnect/connect ground line of on-board electrical system battery in case of communication failure (with XENTRY Diagnosis connected) Models 166, 167, 213, 238, 253, 257, 290, 292, 293 Model 205 (family 65) with model codes 11-16, 18, 19, 21-25, 27, 30, 41-48, 50, 60, 71-74, 76-78 Model 205 (family 66) with model codes 11-13, 15, 19, 21-25, 27, 30, 41-48, 50, 60, 81-83 Model 205 (family 69) with model codes 10, 20, 30, 50, 60, 70, 82, 84, 86 Model 217 with model codes 20, 40, 81, 82, 85, 86, 88 Model 222 with model codes 52, 53, 54, 55, 63, 64	0.2		
	12-2005	Disconnect/connect ground line of on-board electrical system battery in case of communication failure (with XENTRY Diagnosis connected) Model 217 with model codes 70, 83, 84, 87, 89, 90 Model 463 (family 77)	0.3		
	12-2005	Disconnect/connect ground line of on-board electrical system battery in case of communication failure (with XENTRY Diagnosis connected) Model 463 (family 76) with model codes 50, 60, 70, 83-86	0.3		
	12-2006 Models 217, 222	Addition: Disconnect/connect ground line of on-board electrical system battery in the case of a communication failure in VEH with refrigerator box/through- load ski bag Models 217, 222	0.1		
	12-2007	Addition: Disconnect/connect ground line of on-board electrical system battery in the case of a communication failure in VEH with rear battery Models 253, 293	0.1		
	12-1907	Update data of SIM card in HERMES control unit (OTA update) (after check) Includes : Carry out commissioning.	0.3		

		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning.	0.6
		Model 117 with model codes 10, 20, 40, 50, 81	
		Replace HERMES control unit (after check)	
		Includes: Carry out commissioning.	
	12-1908	Model 117 with model codes 60, 70, 85	0.3
	12-1500	Models 156, 172	
		Model 205 (family 65) with model codes 17, 27, 47, 49, 66, 75	
-		Model 217 with model codes 70, 83, 84, 87, 89, 90	
		Replace HERMES control unit (alter check)	
	12-1908	Modele 449, 477, 242, 229	0.5
		Model 166 with model added 10, 20, 50, 70, 91, 92, 95, 00	
		Replace HERMES control unit (offer check)	
	40 4000	Includes : Corry out commissioning	1.0
	12-1908	Model 166 with model codes 20, 40, 60, 82, 84	1.0
-		Replace HERMES control unit (offer check)	
	40 4000	Includes : Corry out commissioning	12
	12-1908	Model 167	1.5
		Peplace HERMES control unit (after check)	
		Includes: Carry out commissioning	
	12-1908	Model 190	0.7
		Model 463 (family 77)	
		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning	
		Model 205 (family 65) with model codes 11-16 18 19 21-25 30 41-46 48	0.2
		50, 61-65, 71-74, 76-78, 80	
		Replace HERMES control unit (after check)	
		Includes: Carry out commissioning.	
		Model 205 (family 66), 222	
54 973 19	12-1908	Model 205 (family 69) with model codes 10, 20, 30, 81, 83, 85	0.3
		Model 217 with model codes 20, 40, 81, 82, 85, 86, 88	
		Model 463 (family 76)	
		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning.	0.8
		Model 205 (family 69) with model codes 50, 60, 70, 82, 84, 86	
		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning.	1.1
		Model 231	
		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning.	3.1
		Model 247 (families 88 and 91)	
-		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning.	3.2
		Model 247 (family 92)	
		Replace HERMES control unit (after check)	
	12-1908	Includes: Carry out commissioning.	1.1
	12-1908	Replace HERMES control unit (after check)	0.4
		Includes: Carry out commissioning.	0.4
		Models 297, 290, 292, 293	

* Invoice operation items only on one of the workshop orders, if two or more software updates or SCN codings are performed during a single workshop visit.

Note: Always check Xentry Operation Time (XOT) for the current OP-Code times. Labor times are subject to change and updates may not be reflected in this document.