

CUSTOMER #: 110229

973227

INVOICE



Mercedes-Benz

409

SERVICE ADVISOR: 778 MICHAEL

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN / OUT	TAG
BLACK	21	MERCEDES TRUCK GLE45			13953/13970	T7259

DEL. DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
26DEC20	DD		18:00 17NOV21		199.00	CASH	29NOV21

R.O. OPENED	READY	OPTIONS:
09:33 17NOV21	15:26 29NOV21	SOLD-STK:M210183 DLR ENG:3.0_Liter_Turbo

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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A CUSTOMER STATES THAT WAS DRIVING VEHICLE ON HIGHWAY AND THE CLUSTER HAD A MESSAGE IN YELLOW 48V BATTERY AND THEN AFTER A QUARTER MILE LATER THE CLUSTER IN RED STATED ENGINE COOLANT CHECK AND ADVISE

540650	ON-BOARD POWER SUPPLY VOLTAGE MAINTAIN (WHEN CHECKING/ TESTING AND TROUBLESHOOTING)	14	WC				(N/C)
1	256-142-03-80 METAL-NON METAL SEAL						(N/C)
1	000-995-50-33 PROFILE CLAMP F EXHAUST						(N/C)
1	000-995-17-33 PROFILE CLAMP F EXHAUST						(N/C)
541011	PERFORM QUICK TEST	14	WC				(N/C)
547989	DISCONNECT/CONNECT GROUND LINEOF BATTERY FOR 12 V ON-BOARD ELECTRICAL SYSTEM (DURING REPAIR OPERATIONS)	14	WC				(N/C)
913602	FRONT PASSENGER SEAT REMOVE/ INSTALL	14	WC				(N/C)
684052	FLOOR COVERING AT RIGHT FRONT REPLACE (FRONT SEAT REMOVED)	14	WC				(N/C)
490000	GROUP 49 - NO OPERATION NO. AND TIME GIVEN USE ACTUAL TIME (PUNCH CARD) WITH 49-0000/01 AS OPERATION NO.	14	WC				(N/C)
541010	ELECTRICAL SYSTEM CHECK, FINDINGS:.....	14	WC				(N/C)

13970 FUNCTIONAL IMPAIRMENT OF 48 VOLT ON BOARD ELECTRICAL SYSTEM/PERFORMED LI54.10-P-069698 ONBOARD POWER MAINTAIN, PERFORMED INITIAL QUICK TEST AND CONTROL UNIT LOG FOR DC/DC CONVERTER. FOLLOWED LI54.10-P-069698. FAULT CODE B183371 THE BATTERY FOR THE 48 VOLT ONBOARD ELECTRICAL SYSTEM HAS A MALFUNCTION, THE ACTUATOR IS BLOCKED. FAULT IS STORED IN G1/3 48 VOLT BATTERY, NO OTHER FAULTS IN CONTROL

WARRANTY STATEMENT AND DISCLAIMER: PLEASE SEE THE DEALERSHIP'S LIMITED WARRANTY ON THE REVERSE SIDE OF THIS REPAIR INVOICE

Original Estimate (Parts & Labor)	Total Additional Cost Authorized	Approved By/Telephone No.:	Date & Time
\$	\$		
Revised Estimate	\$		
\$			

*SHOP SUPPLY COSTS: We have added a charge equal to 8.9% of the total cost of labor, not to exceed \$36.99, to the Repair Order for shop supplies used in connection with this repair.

ALL PARTS ARE NEW UNLESS OTHERWISE INDICATED.

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES *	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

By signing below, you acknowledge that you were notified of and authorized the Dealership to perform the services/repairs itemized in this invoice and that you received (or had the opportunity to inspect) any replaced parts as requested by you. The vehicle is being returned to you in exchange for your payment of the Amount Due.

DATE CUSTOMER SIGNATURE AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE

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UNIT. DETERMINED CAUSE AND REMEDY 5 TO BE FOLLOWED IN LI. PERFORMED PRELIMINARY MEASURES FOR REMEDY 5, ROAD TEST VEHICLE AS DESCRIBED IN LI, CONCERN WAS NOT REPRODUCED. PERFORMED QUICK TEST AND CONTROL UNIT LOG FOR DC/DC CONVERTER, AFTER TEST DRIVE AND UPLOADED DOCUMENTS. COMPLETED GUIDED TEST FOR ALL FAULT CODES. DISCONNECT 12 VOLT BATTERY GROUND, REMOVED FRONT PASSENGER SEAT, REMOVED CARPETING AT RIGHT FRONT, REMOVED AND INSPECTED CABLES IN AND OUT OF DC/DC CONVERTER AND 48 VOLT BATTERY. N83/1 CIRCUIT 30 - RELEASE TORQUE -6.8NM, DO DAMAGE FOUND CABLE IS OK. N83/1 CIRCUIT 31 - RELEASE TORQUE 0NM, NO DAMAGE FOUND, CABLE IS OK. G1/3 CIRCUIT 40 - RELEASE TORQUE -8NM, NO DAMAGE FOUND, CABLE IS OK. G1/3 CIRCUIT 41 - RELEASE TORQUE -7.8NM, NO DAMAGE FOUND, CABLE IS OK. TORQUE ALL CONNECTIONS TO 16NM. THROUGH XENTRY DIAGNOSIS, FOUND 48V BATTERY DATA, THE CONSPICUOUS DATA FROM THE DRIVE CYCLE WHEN WARNING MESSAGES OCCURRED, SHOW EXCESSIVE CURRENT NOT HIGHLIGHTED IN RED. FOLLOWED OPTION 2 FOR NEXT CHECKS OF LI. PERFORMED PHYSICAL LAYER INSPECTION OF ALL 48 VOLT COMPONENTS. GROUND POINT CIRCUIT 41 - RELEASE TORQUE -21NM, NO DAMAGE FOUND, CABLE IS OK. CIRCUIT 40 TO F153/2 (E1) RELEASE TORQUE -9.7NM, NO DAMAGE FOUND, CABLE IS OK. CIRCUIT 30 TO F150/2 RELEASE TORQUE -8.9NM, NO DAMAGE FOUND, CABLE IS OK. F153/2 TERMINAL E2 RELEASE TORQUE -14NM, NO DAMAGE FOUND, CABLE IS OK. F153/2 TERMINAL A3 RELEASE TORQUE -11.7NM, NO DAMAGE FOUND, CABLE IS OK. A9/5 CIRCUIT 40, RELEASE TORQUE -12NM, NO DAMAGE FOUND, CABLE IS OK. A9/5 CIRCUIT 41 RELEASE TORQUE -13.3NM, NO DAMAGE FOUND, CABLE IS OK. REMOVED CATALYTIC CONVERTER (NON-TIME), CIRCUIT 41 AT ISA JUNCTION POINT RELEASE TORQUE -7.8NM, NO DAMAGE FOUND, CABLE IS OK, CIRCUIT 40 AT ISA JUNCTION POINT RELEASE TORQUE -10.8NM, NO DAMAGE FOUND, CABLE IS OK. TORQUE ALL CONNECTIONS TO 16NM, TORQUE ALL 6 PHASE BOLTS AT ISA TO 11NM. NEW SOFTWARE WAS AVAILABLE FOR 48VOLT BATTERY, PERFORMED SOFTWARE UPDATE FOR 48 VOLT BATTERY. CLEARED FAULT MEMORY, PERFORMED MULTIPLE TEST DRIVES.

B PERFORM FREE MULTI-POINT VEHICLE INSPECTION (REGULAR PRICE \$49.95) PER CUSTOMER REQUEST

MULTI PERFORM FREE MULTI-POINT VEHICLE INSPECTION

WARRANTY STATEMENT AND DISCLAIMER: PLEASE SEE THE DEALERSHIP'S LIMITED WARRANTY ON THE REVERSE SIDE OF THIS REPAIR INVOICE				*SHOP SUPPLY COSTS: We have added a charge equal to 8.9% of the total cost of labor, not to exceed \$36.99, to the Repair Order for shop supplies used in connection with this repair.	DESCRIPTION	TOTALS
Original Estimate (Parts & Labor)	Total Additional Cost Authorized	Approved By/Telephone No.:	Date & Time		LABOR AMOUNT	
\$	\$			PARTS AMOUNT		
Revised Estimate	\$			GAS, OIL, LUBE		
\$				SUBLET AMOUNT		
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					TOTAL CHARGES	
					LESS INSURANCE	
					SALES TAX	
					PLEASE PAY THIS AMOUNT	
DATE	CUSTOMER SIGNATURE	AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE				

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					(REGULAR PRICE \$49.95) PER CUSTOMER REQUEST		
				14	IPSC		(N/C)

C					PERFORM BASIC CAR WASH (REGULAR PRICE (\$5.95)		
					WASH PERFORM BASIC CAR WASH (REGULAR PRICE (\$5.95)		
				14	IPSC		(N/C)

D					PROVIDE LOANER TO CUSTOMER (REGULAR PRICE \$119.95 PER DAY)		
					KLOAN PROVIDE LOANER TO CUSTOMER (REGULAR PRICE \$119.95 PER DAY)		
				14	IPSC		(N/C)

E					CUSTOMER PREFERS TO BE CONTACTED BY PHONE ()		
					PHONE CUSTOMER PREFERS TO BE CONTACTED BY PHONE ()		
				14	IPSC		(N/C)

EST: 0.00 17NOV21 09:33 SA: 778
 CONTACT:

YOUR VEHICLE HAS BEEN QUALITY INSPECTED UPON COMPLETION OF THE AUTHORIZED ITEMS PERFORMED ABOVE. PLEASE REFER TO OUR ADDITIONAL NOTED RECOMMENDED SERVICES (IF NEEDED). THANK YOU FOR VISITING WE APPRECIATE YOUR LOYALTY!

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\$	\$			PARTS AMOUNT	0.00	
Revised Estimate	\$			GAS, OIL, LUBE	0.00	
\$				SUBLET AMOUNT	0.00	
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					TOTAL CHARGES	0.00
					LESS INSURANCE	0.00
					SALES TAX	0.00
					PLEASE PAY THIS AMOUNT	0.00
DATE	CUSTOMER SIGNATURE	AUTHORIZED DEALERSHIP REPRESENTATIVE SIGNATURE				