

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG	
	15	MERCEDES-BENZ C300	55SWF4JB4FU067581	7LAJ678	7749/7796	T3431	
DEL DATE	PROD. DATE	WARR. EXP.	TIME REQUESTED	PO NO.	RATE	PAYMENT	INV. DATE
11FEB16 DD			17:00 21DEC16			CASH	28DEC16
R.O. OPENED		READY	OPTIONS: DLR:05179				
07:11 21DEC16		17:28 28DEC16					

LINE OPCODE TECH TYPE HOURS LIST NET TOTAL

A CUSTOMER STATES THERE IS A CHATTERING NOISE ON DECELL ANYTIME CAR SITS FOR A LONG TIME

CAUSE: ENGINE NOISE

941013 LOCALIZE NOISES ON ENGINE, TECHNICIAN TEST

DRIVE: ..... DEPARTURE:.....

ARRIVAL:..... KM AT START: .....

956 W67

1 274-037-03-00 TS PISTON	(N/C)
10 000-016-05-69 CYLINDER HEAD BOLT	(N/C)
1 274-016-00-20 CYLINDER HEAD GASKET	(N/C)
2 003-990-04-03 SCREW W RND. HEXAL. HEAD	(N/C)
2 002-990-24-03 SCREW W RND. HEXAL. HEAD	(N/C)
1 274-018-44-00 ELASTOMER-MOLDED SEAL	(N/C)
4 007-990-84-04 SCREW	(N/C)
1 023-997-06-45 O-RING	(N/C)
10 000-016-05-69 CYLINDER HEAD BOLT	(N/C)
1 023-997-28-45 O-RING	(N/C)
1 270-016-00-80 CIRCUMFERENTIAL GASKET	(N/C)
1 274-142-01-80 MULTI-HOLE SEAL	(N/C)
2 024-997-10-45 O-RING	(N/C)
4 023-997-06-45 O-RING	(N/C)
2 000-997-64-20 PROTECTIVE CAP	(N/C)
1 000-997-62-20 EXPANSION PLUG	(N/C)
1 000-998-65-90 CLOSING COVER	(N/C)
1 270-180-01-09 TS OIL FILTER ELEMENT	(N/C)
1 270-181-01-81 ELASTOMER-MOLDED SEAL	(N/C)
60 000-989-83-01-USB9 MB GENUINE ENGINE OIL	(N/C)
5w-40 MB 229.5 (CAR/VAN/SMART)	(N/C)
2 024-997-63-45 O-RING	(N/C)
1 024-997-80-45 O-RING	(N/C)
1 020-997-78-45 O-RING	(N/C)
1 021-997-97-45 O-RING	(N/C)
4 276-072-01-43 TS SPRING F INJECTOR	(N/C)
1 651-096-03-80 GASKET	(N/C)

ORIGINAL ESTIMATE	REVISED ESTIMATE	"HAZARDOUS MATERIAL" Removal charge for all hazardous material removed from your automobile, that must be disposed of as a hazardous waste.	DESCRIPTION	TOTALS
\$	\$		LABOR AMOUNT	
I acknowledge notice and oral approval of an increase in the original estimated price.		IF WORK HAS NOT BEEN PERFORMED AS REQUESTED OR IF YOU FEEL THAT THE REPAIRS ARE NOT SATISFACTORY, PLEASE CONTACT YOUR SERVICE ADVISOR IMMEDIATELY. ANY COMPLAINTS PERTAINING TO THIS WORK ORDER MUST BE LODGED WITHIN 10 DAYS.	PARTS AMOUNT	
CLIENT SIGNATURE X			GAS, OIL, LUBE	
Client acknowledges and approves all repairs as itemized and/or receipt of vehicle.			SUBLET AMOUNT	
CLIENT SIGNATURE			MISC. CHARGES	
			TOTAL CHARGES	
			LESS INSURANCE/ADJ.	
			SALES TAX	
SUBJECT TO CONDITIONS ON REVERSE SIDE OF THIS CONTRACT. ALL PARTS NEW UNLESS SPECIFIED OTHERWISE.		PLEASE READ REVERSE SIDE.	PLEASE PAY THIS AMOUNT	

Mercedes-Benz of Calabasas



COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG	
	15	MERCEDES-BENZ C300	55SWF4JB4FU067581	7LAJ678	7749/7796	T3431	
DEL DATE	PROD. DATE	WARR. EXP.	TIME REQUESTED	PO NO.	RATE	PAYMENT	INV. DATE
11FEB16 DD			17:00 21DEC16			CASH	28DEC16
R.O. OPENED		READY	OPTIONS: DLR:05179				
07:11 21DEC16		17:28 28DEC16					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
1	Q-1-03-0005	G40	ANTIFREEZE	GLYSANTIN G40			(N/C)
1	270-203-00-80	ELASTOMER-MOLDED SEAL					(N/C)
8	271-142-00-72	NUT					(N/C)
1	010-989-90-71	CLEANING AGENT					(N/C)
1	001-986-71-71-10	CLEANING COMPOUND MB					(N/C)
2	001-989-78-03-09	ATF-OIL					(N/C)
4	270-096-01-80	ELASTOMER-MOLDED SEAL					(N/C)
20	001-990-57-22	SCREW					(N/C)
6	002-990-24-22	SCREW					(N/C)
2	003-989-98-20-10	SEALANT MB					(N/C)
1	012-997-85-45	SEAL RING					(N/C)
4	000000-007876	HEXALOBULAR BOLT					(N/C)
1	000-589-04-14-00	PISTON RING COMPRESSOR					(N/C)
1	000-991-95-40	EXPANSION RIVET					(N/C)
547989	UNSCREW/SCREW ON GROUND LINE OF ON-BOARD ELECTRICAL SYSTEM BATTERY (DURING REPAIR OPERATIONS)						
	956	W67					(N/C)
831762	EXTRACT REFRIGERANT, CHECK FORLEAKS, REFILL (WHEN WORKING ONAIR CONDITIONING)						
	956	W67					(N/C)
012800	REMOVE/INSTALL ENGINE WITH AUTOMATIC TRANSMISSION						
	956	W67					(N/C)
014270	CLAMP ENGINE IN ASSEMBLY STAND (ENGINE REMOVED, OUTPUT SIDE EXPOSED)						
	956	W67					(N/C)
015765	REMOVE/INSTALL CYLINDER HEAD (ENGINE REMOVED)						
	956	W67					(N/C)
037061	PISTONS (ALL) REMOVE/INSTALL (ENGINE AND CYLINDER HEAD REMOVED)						
	956	W67					(N/C)
037311	PISTON RINGS ON ALL PISTONS REPLACE (WITH						

ORIGINAL ESTIMATE	REVISED ESTIMATE	"HAZARDOUS MATERIAL" Removal charge for all hazardous material removed from your automobile, that must be disposed of as a hazardous waste.	DESCRIPTION	TOTALS
\$	\$		LABOR AMOUNT	
I acknowledge notice and oral approval of an increase in the original estimated price.		IF WORK HAS NOT BEEN PERFORMED AS REQUESTED OR IF YOU FEEL THAT THE REPAIRS ARE NOT SATISFACTORY, PLEASE CONTACT YOUR SERVICE ADVISOR IMMEDIATELY. ANY COMPLAINTS PERTAINING TO THIS WORK ORDER MUST BE LODGED WITHIN 10 DAYS.	PARTS AMOUNT	
CLIENT SIGNATURE X			GAS, OIL, LUBE	
Client acknowledges and approves all repairs as itemized and/or receipt of vehicle.			SUBLET AMOUNT	
CLIENT SIGNATURE			MISC. CHARGES	
			TOTAL CHARGES	
			LESS INSURANCE/ADJ.	
		SALES TAX		

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
				PISTON REMOVED)			
				956	W67		(N/C)
836623				REPLACE DESICCANT CARTRIDGES OF ALL AIR CONDITIONING SYSTEMS (SYSTEM DRAINED)			
				956	W67		(N/C)
540650				ON-BOARD POWER SUPPLY VOLTAGE MAINTAIN (WHEN CHECKING/ TESTING AND TROUBLESHOOTING)			
				956	W67		(N/C)
541011				PERFORM QUICK TEST			
				956	W67		(N/C)
272110				DISCONNECT/CONNECT AUTOMATIC TRANSMISSION AT FLANGE (ENGINEWITH TRANSMISSION REMOVED)			
				956	W67		(N/C)
611069				REMOVE/INSTALL LOWER ENGINE COMPARTMENT PANELING COMPLETE			
				956	W67		(N/C)
611116				REMOVE/INSTALL LEFT COVER ON UNDERFLOOR, REPLACE IF NECESSARY			
				956	W67		(N/C)
611117				REMOVE/INSTALL RIGHT COVER ON UNDERFLOOR, REPLACE IF NECESSARY			
				956	W67		(N/C)

7796 li 03.10-p-060916 DISCONNECTED BATTERY.. REMOVED ALL ENGINE UNDER PANELS.. DRAINED RADIATOR AND ENGINE OF COOLANT.. DRAINED ENGINE OIL.. REMOVED COOLANT HOSES.. UNBOLTED AC COMPRESSOR FROM ENGINE AND PLACED TO SIDE.. REMOVED TRANS COOLER LINES AND PLACED STOP PLUGS.. DISCONNECTED ENGINE HARNESS AND REMOVED ENGINE FROM VEHICLE.. UBBOLTED TORQUE CONVERTER AND REMOVED TRANSMISSION FROM ENGINE... PLACED ENGINE ON STAND.. REMOVED TURBO MANIFOLD.. REMOVED ALTERNATOR.. REMOVED ALL VACUUM LINES AND CHARGE PIPING.. REMOVED LOW TEMP COOLER.. REMOVED INTAKE MANIFOLD.. REMOVED CYLINDER HEAD COVER.. REMOVED CHAIN TENSIONER PINS USING SPECIAL TOOL.. REMOVED CAMSHAFT ADJUSTERS.. REMOVED CAMSHAFTS.. REMOVED CYLINDER HEAD.. INSPECTED CYLINDER HEAD AND FOUND TO BE OK.. REMOVED OIL PAN AND OIL LEVEL SENSOR.. REMOVED OIL PUMP..

ORIGINAL ESTIMATE	REVISED ESTIMATE	"HAZARDOUS MATERIAL" Removal charge for all hazardous material removed from your automobile, that must be disposed of as a hazardous waste.	DESCRIPTION	TOTALS
\$	\$		LABOR AMOUNT	
			PARTS AMOUNT	
		IF WORK HAS NOT BEEN PERFORMED AS REQUESTED OR IF YOU FEEL THAT	GAS, OIL, LUBE	

I acknowledge notice and oral approval of an increase in the original estimated price.

CLIENT SIGNATURE X

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
1					REMOVED BAFFLE SHIELD.. REMOVED AND INSPECTED LANCHESTER BALANCER AND		
2					FOUND TO BE OK.. REMOVED ALL PISON ASSEMBLIES FROM ENGINE AN		
3					INSPECTED [DW PUNCH].. FOUND CONNECTIONG RODS TO HAVE EXCESSIVE		
4					TOLERANCES CAUSING NOISE COMPLAINT.. INSPECTED PISTONS AND CYLINDER		
5					WALLS AND FOUND TO BE OK.. [ALL INSPECTIONS DW PUNCH].. ASSEMBLED NEW		
6					PISTONS AND CONECTING RODS WHILE OBSERVING SPECIFIED DIRECTION..		
7					INSTALLED NEW PISTONS AND RODS USING SPECIAL TOOL.. TORQUED ALL		
8					CONNECTING RODS TO SPEC.. INSTALLED LANCHESTER BALANCER AND MEASURED		
9					BACKLASH USING DIAL INDICATOR.. ASSEMBLED BACK LASH 0.10MM.. INSTALLED		
10					OIL PUMP WITH NEW O RING.. REMOVED OLD SURACE SEALANT FROM ALL		
11					COMPONENTS USING LOCTITE SF 7200 AND PLASTIC BLADE TO ENSURE		
12					PRESERVATION OF ORIGINAL SURFACE.. INSTALLED OIL PAN.. PREPPED CYLINDER		
13					HEAD AND BLOCK DECK AND INSTALLED NEW HEAD GASKET.. INSTALLED HEAD AND		
14					TORQUED TO SPEC USING NEW BOLTS.. INSPECTED CAMSHAFTS AND INSTALLED		
15					USING SPECIAL TOOLS.. INSTALLED CHAIN TENSIONER PINS USING SPECIAL		
16					TOOL.. INSTALLED CAMSHAFT ADJUSTERS, TORQUED TO SPEC, AND SET ENGINE		
17					TIMING TO SPEC.. INSTALLED ALL COMPONENTS USING NEWGASKETS AND		
18					FASTENERS WHILE OBSERVING SPECIFIED TORQUE SPECS? CHECKED FOR FIT AND		
19					FUNCTION AND FOUND TO BE OK? ASSEMBLED ENGINE COMPONENTS AND ENGINE		
20					WIRING HARNESS.. INSTALLED ENGINE AND TRANSMISSION IN VEHICLE.. BLED		
21					MAIN CIRCUIT COOLING SYSTEM.. BLED LOW TEMP CIRCUIT COOLING SYSTEM..		
22					CHECKED TRANSMISSION FLUID LEVEL AND FOUND TO BE OK.. REPLACED OIL		
23					FILTER AND ADDED 7 QUARTS MB GENUINE ENGINE OIL 229.5.. CHECKED AND		
24					CORRECTED ENGINE OIL LEVEL.. RECONNECTED BATTERY AND CONNECTED BATTERY		
25					CHARGER.. RAN ENGINE AND PERFORMED BREAK IN PROCEDURE.. CONNECTED SDS		
26					AND READ OUT FAULT MEMORY AND CLEARED CODES.. PERFORMED EXTENDED ROAD		
27					TEST WHILE PERFORMING BREAK IN PROCEDURE OF ENGINE.. PERFORMED FINAL		
28					QUICK TEST AND FOUND NO CODES.. PERFORMED COMPRESSION TEST AND PASSED..		
29					RAISED VEHICLE ON LIFT AND CHECKED FOR LEAKS.. FOUND TO BE OK..		
30					INSTALLED ENGINE UNDER PANELS.. PREPARED PARTS TO RETURN TO WARRANTY..		
31					MILES OUT 7796....ZM TIME APPROVED SB 12/28/16		

\*\*\*\*\*