



303.938.9000
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1011 Carbon Court, Erie, CO 80516
Invoice # 4902

Matt Venditti **2002 Ferrari 456 M GTA Base** License # Inv Date: 5/19/2020
 (303) 999-7845 VIN: ZFFWL50A320126820 ODO In: 53205 Out: 53237
 Engine: V12 5.5L, 334cid, DOHC, GAS, FI Color: TDF Blue Service Writer:
 Trans: Mfg. Date: 12/01 Status: Complete
 Unit # Driver:
 PO #

Vehicle Problems	Requests for Service	Services Performed	Qty	Price	Ext
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Notes: Diagnose poor running condition, and check engine light.
 Suspension level warning on dash
 1st to 2nd shift feels rough.
 No blower fan for any speed.
 Starter sounds noisy.

Labor Service - Perform through inspection of vehicle to note needs and shortcomings. 18,550.00

Begin diagnosis of poor running condition to determine if car is viable. Note that check engine light and slow down lights were present on dash. Left fuel pump was found to have no power, jumpering power to fuel pump as a test only allowed both cylinder banks to operate.
 Exhaust thermocouples and control units believed to be the cause of slow down lights illuminated on dash.
 Two codes were found to be present in the engine Motronic control units: fuel pump no signal and air flow meter over maximum threshold.
 Cleared codes and start car finding check engine and slow down light to come back immediately though no codes stored yet.
 Start the car for another run cycle and the car dropped the right cylinder bank still with no codes being stored.
 Right bank Motronic computer would not communicate with SD1. Move computers from left to right and found that right bank computer would communicate when in left bank position, possible CAN line issue.
 Diagnose no power to left fuel pump at fuse. Test computer output finding it to be functioning check power supply finding it to also be functioning, test relay finding it to be faulty. Replaced relay and power no present to left fuel pump.
 Run car and scan both computers finding only slow down codes present at this time.
 While running car dropped the right cylinder bank, checked power to both fuel pumps at fuse panel finding power still present.
 Move computer left to right and restart car finding that right bank was still off and issue did not follow computer switch.
 Disconnect slow down control computers to prevent bank droppage due to their possible failure and we were able to complete two test drives with no performance problems.
 Source and install new slow down control units and thermocouple sensors for exhaust.
 Perform test drive with no recurrence of check engine or slow down lights at this time.

Found that rear shocks were blown and leaking and leveling rod was bent. Remove and disassemble to allow replacement of all wear parts and shocks. Install new OEM shocks and bleed self leveling hydraulic suspension system. Manually move rear suspension leveling sensor and confirm that the vehicle does adjust it's rear ride height. Fabricate replacement self leveling rod, install and set baseline ride height. Perform four wheel alignment.

Begin diagnosis of HVAC system. Found that fan fuse had been install in such a way as to keep the blower fan from functioning. When installed correctly the blower fan was found to run randomly with the ignition off and the key removed.
 Remove climate control computer to inspect for damage or corrosion. Disassemble computer for internal inspection with no visible issues noted.
 Attempt to dialog with climate control system with Ferrari SD1 diagnostic tool finding that computer would not communicate with SD1.
 Locate and remove fan resistor for blower and monitor for several days finding no



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erroneous running of blower fan. Install a new fan resistor and found that the blower motor is now working normally from controls.
 Reassemble majority of interior.

Remove center console side cover to allow access to heater box. Corrosion was found on 7.5 amp fuse under dash for climate control.
 Remove all relays, fuses, and control devices for the climate control system, clean, inspect and test all.
 Remove switch panel from center console. Disassemble and clean switches and bezel plate.

Turn signals and hazards were found to not function.
 Trace wiring to determine emergency flasher relay position. Test relay and found it to be faulty, correct replacement relay no longer available from Ferrari. Extensive search found good used relay in Europe, order and install relay and found that hazards and directional indicators now function.

Install new engine mounts due to extreme sagging allowing engine to contact steering rack.

Install new battery.

Extensively flush and bleed brake system.

Attempt to take car to refuel prior to additional test drives and while adding gas was informed that fuel was leaking under the car by another customer.
 Trailer vehicle back to the shop.
 Remove trunk linings for access. Remove left rear wheel and fender liner for access to fuel system charcoal canister. Perform a smoke test of the fuel system showing no significant leak though wetness was noted around left fuel pump and evidence of possible older staining on the floor of the trunk. Use bore scope to look through the fuel filler neck for possible blockage with none found. Added two gallons of fuel in the shop with no issue and no leak.
 Decision was made to attempt to drive again to the gas station and fuel the car. While backing out of the shop a trail of fuel was seen and vehicle immediately shut off.
 Pushed car back into bay and found that when key was turned on fuel leaked from the plastic fuel pump plate at a rapid rate. Replace both fuel pump plates with billet alternative and install SRI fuel pump boot kits due to deteriorated rubber components found upon removal.
 Perform smoke test of fuel system after fuel pump installation and found vapor leak present at fuel tank roll over valves. Order roll over valves, delayed due to backorder from Ferrari factory, and installed upon arrival. Replacement required removal of fuel tank for clearance. Reinstall all and repeat smoke test finding no further leaks.
 Reinstall all trunk trims and perform extended test drive.
 Discuss with customer and perform oil and filter service. Brake fluid service was performed earlier in cars repair.
 Pattern floor mats per customer request.

New	Custom's Fees	1.00	35.80	35.80
New	Nylon tubing	1.00	25.65	25.65
New	Engine mount	2.00	210.00	420.00
New	ECU Exhaust	2.00	501.23	1,002.46
New	Rear shock asorber	2.00	1,675.00	3,350.00
New	Shock Absorber Top Mount	2.00	250.28	500.56
New	Rubber seal	4.00	4.10	16.40
New	Ball Joint	2.00	490.00	980.00
New	Spring Seat Rubber Front/Rear Lower	2.00	24.60	49.20
New	Self leveling suspension fluid	4.00	10.36	41.44
New	Battery 360	1.00	212.01	212.01



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New	Exhaust thermocouple	1.00	211.00	211.00
New	550 Fan Speed Controller	1.00	374.10	374.10
New	Aluminum Fuel Pump Support	2.00	324.00	648.00
New	SRI Fuel Pump Boot Kit	2.00	295.00	590.00
New	Fuel Fittings	4.00	4.25	17.00
New	Gasket Pump Top	2.00	61.04	122.08
New	Viton O-ring set	2.00	13.44	26.88
New	Fuel	1.30	12.00	15.60
New	Valve, roll over	1.00	206.00	206.00
New	Valve, roll over	1.00	209.00	209.00
New	Fuel	2.00	12.00	24.00
New	F washer	6.00	0.54	3.24
New	Marker light bulb	1.00	2.90	2.90
New	Oil 5W40 qt.	11.00	17.88	196.68
New	Oil Filter 456 - 550	2.00	38.10	76.20
New	Brake Fluid Red Line	2.00	22.35	44.70

Add On Charges Breakdown

Freight 359.32

Invoice Summary

Parts 9,400.90
 Labor 18,550.00
 Supply Charge 25.00
 Add On Charges 359.32

Sub Total 28,335.22
 Sales Tax (CO) 600.72

Total 28,935.94

I hereby authorize the repair work needed upon inspection, including sublet work, to be done along with necessary materials. You and your employees may operate the described vehicle for the purposes of testing, inspection or delivery at my risk. An express lien is acknowledged on said vehicle to secure the amount of repairs thereto. You will not be held responsible for loss or damage to vehicle or articles left in vehicle in case of fire, theft, accident or any other cause beyond your control. I agree to pay all collection costs and /or attorneys fees in the event that default is made in any payment due. If vehicle is returned to customer without repair service being performed, a diagnostic and handling fee (including reassembly) will be charged. I have read and understand the above.

X

Terms: CASH unless arrangements made prior to authorization. Vehicles left after repair is completed may be subject to a storage fee.

X

Discard old parts

Original Estimate: