

PHIL REILLY & CO, INC. AUTO RESTORATION

5842 Paradise Drive
Corte Madera, CA
94925
(415) 924-9022
Fax (415) 924-4050

Job: Fiat Abarth

For:

Invoice Date: 10/16/2020

Invoice #: 3947

3	Frankie	Aug. 31 Change spark plugs to a warmer plug; warm up car, car runs much better. Test drive with Joe. Inspect and make list with [REDACTED] Remove Kirney seat and install the original one to check fit; search through spares boxes to find seat rails.	115.00	345.00
1	Frankie	Sept. 2 Reinstall horn in steering wheel. Check lights, and fluids.	115.00	115.00
4	Brett	Sept. 3 Change spark plugs, test drive car and warm up engine to perform leak down and compression check.	115.00	460.00
3	Frankie	Sept 30 Drain the oil from the sump and the accusump. Anneal and Install a new copper washer on the drain plug and safety wire. Jack the back of the car up to create a better drain and open the radiator petcock to drain the old coolant. Put in new coolant and water for a 50/50 mix. Put in new Brad Penn 20w-50. Wipe / polish the car with speedwax.	115.00	345.00
2	Frankie	Oct 1 Warm the car up and adjust the idle. Take it for a drive and test brakes. Car is working very well. Remove seat for upholstery work.	115.00	230.00
1	Frankie	Oct 11 Install seat, set tire pressures, warm up car and test drive with [REDACTED]	115.00	115.00
	Upholstery	Upholstery - lower seat cushion; Pirelli seat webbing (Franzini)	1,140.00	1,140.00
4	B7ES	1111 NGK Spark plug	6.53	26.12
7	Brad Penn	20/ 50 Brad Penn engine oil (quart)	9.50	66.50
1	PP0414	Oil filter	16.716	16.72
1	NAF	Antifreeze (gallon)	19.84	19.84
	HAZMAT	Hazardous waste fees	17.00	17.00
	Consuma...	Consumable parts and supplies	18.00	18.00

Total

Payments/Credits

Balance Due

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Marin County Sales Tax (Corte Madera)	9.00%	13.25
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Total	\$2,927.43
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Payments/Credits	\$0.00
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Balance Due	\$2,927.43
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PHIL REILLY & CO, INC. AUTO RESTORATION

5701 Old Redwood Hwy
Pennngrove, CA 94951
(415) 924-9022

Job: Fiat Abarth

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Invoice Date: 6/18/2024

Invoice #: 4728

5	Brian	Nov. 10, 2023 Pick up car at the Marina in San Francisco and deliver to Sonoma. Car does not run. Trouble shoot problem. Charge the battery. Check for spark and fuel. Remove spark plugs, clean, and replace. Adjust point gap. Check timing. Try a different coil. Spark seems weak...	135.00	675.00
1	Brian	Nov. 11 Find extra wire on the coil, rev limiter. Remove wire and car starts. All ok.	135.00	135.00
2.5	Brian	Nov.13 Set car on stands to find the brake light switch. Remove panel under front of car, determine type of switch. Set back on the ground.	135.00	337.50
4	Brian	Nov. 14 Set car on front stands to replace brake light switch. Remove wheels and bleed front brakes. Lights work. Down on the ground. Check brake fluid.	135.00	540.00
1	Brian	Jan. 3 Load car and deliver to Pennngrove.	135.00	135.00
8	Gerardo	Jan. 9 Ignition coil removed to access rev limiter harness; rev limiter and harness removed; front belly pan removed to raise front of vehicle; removed wheels. front right brake rotor is severely gouged. need to replace; removed front pads and calipers; rotor/hub assemblies removed. axle nuts only hand tight; front wheel seals removed and bearings inspected. bearings are good, just need to repack with grease; parking brake assemblies removed; rear pads and calipers removed. rear caliper left side missing top slide pin for pads; passenger side axle yoke disconnected from spacer/adaptor at hub; spacer/adaptor for axle and hub removed passenger side. nut securing the 2 pieces together was not very tight.	135.00	1,080.00

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8	Gerardo	Jan 10 Driver side axle yoke disconnected from adapter/spacer at hub; disconnected axle yoke from axle to access nut to separate hub from adapter/spacer; hub and adapter/spacer removed driver side; bearings and seals removed from hubs and inspected. good condition. just need to repack with grease; u joints inspected. good condition; front rotors removed from hubs	135.00	1,080.00
6	Gerardo	Jan. 16 Mounting holes for rev limiter drilled larger to fit existing hardware to mount; rev limiter harness routed and trimmed to size; harness heat shrunk to better protect. Rev limiter mounted and wires connected; wheel bearings front and rear cleaned/degreased for repacking.	135.00	810.00
8	Gerardo	Jan. 17 Rear hubs cleaned of old grease to repack; rear wheel bearings repacked with grease. seals and bearings installed; rear hubs installed. torqued to 100ft lbs. with blue loctite; axle spacers/adapters installed; axle re-installed driver side	135.00	1,080.00
7	Gerardo	Jan 18 Axle reinstalled passenger side; new band clamp made for axle boot driver side; rotors and parking brake assemblies installed; inspected rear caliper pistons for rust/junk. visible rust on pistons. need to take apart and inspect; pistons and seals removed from rear calipers. smaller pistons show signs of being cocked in the bore. larger pistons have coating starting to flake off. replace; front calipers inspected. dust cover for pistons ripped on driver side. recommend further investigation for rust.	135.00	945.00

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3	Gerardo	Jan. 23 Brake fluid drained from front calipers; front calipers removed; pistons and seals removed from pistons. found rust and coating is chipping off. replace	135.00	405.00
5	Gerardo	Jan. 30 Front calipers degreased/washed and dried. rust removed between dust seal and piston seal; blew air through calipers, bleeder screw, and hard lines to ensure parts are free of blockage; new pistons and seals installed. re-installed dust seals; new caliper retaining pin manufactured in house. originally missing off of left rear caliper.	135.00	675.00
5	Gerardo	Feb. 8 Removed rust from caliper lip between dust seals and piston seals; new pistons and seals installed on rear calipers; rear calipers installed; parking brake bolt, left side, threads are rounded off. parking brake removed, threads chased, and new bolts installed. hardware swapped as well on passenger side to match; old grease cleaned out of front hubs. bearings repacked and new seals installed.	135.00	675.00
2	Spenser	Feb. 6 2 of the damaged pistons for the brake calipers are not available in the correct size/length so they will be made from stainless steel in house. I removed the tool post from our lathe and installed a tool post grinding machine. I then ordered an oversized stainless billet to be cut and ground to size and the appropriate grinding wheel for the material	135.00	270.00

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6	Spenser	Feb. 22 I measured the brake caliper pistons and made a drawing to follow when making the new pistons. I then machined the stainless bar stock into new pistons. This process was time consuming due to the hardness of the stainless and requirement for a perfect finish to prevent seal failure. I first rough cut the OD of the bar stock as the post grinder can not remove large amounts of material. I then finished wet grinding the OD of the bar stock and wet sanded it to a polish using super fine sanding cloth to remove any blemishes. I was then able to bore out the inside of the first piston, cut the dust cap groove using a custom sized cutting tool I made, and part it off. I then bored out the second piston, cut the dust cap groove, and parted it off as well. All edges were then finished and deburred. All of this was time consuming with stainless.	135.00	810.00
8	Gerardo	Feb. 29 Mounting bolts for front rotors and bolt holes on hubs cleaned and degreased. Rotors mounted to hubs, added red high temp loctite to bolts. Outer bearings repacked with grease, hubs re-installed on vehicle, calipers re-installed. re-routed brake hoses. original routing of the hoses needed to be changed.	135.00	1,080.00
8	Gerardo	Mar. 1 Tie rods and center link removed. New dust boots/seals made. Tie rods and center link installed with new dust boots/seals. Inspected brake master cylinder, leaking from dust boot. rebuild or replace -brake master cylinder removed and disassembled.	135.00	1,080.00

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8.5	Gerardo	Mar. 20 Brass fittings and end bolt removed from master cylinder. Master cylinder bore honed. Master cylinder and components cleaned in the ultra sonic, rinsed, dried, and all ports blown with air to ensure no blockage. Brake master cylinder reassembled. Brake master cylinder re-installed onto vehicle. Brake hoses from master cylinder reservoir to master cylinder replaced, hoses were damaged from over clamping.	135.00	1,147.50
2.5	Gerardo	Mar. 22 Brakes bled on vehicle. Outer caliper pistons needed adjustment to better engage the pads with rotors. Inspected for leaks.	135.00	337.50
8	Gerardo	April 3 Wheels remounted onto vehicle. Parking brake tested. Right side does not grab. Left side grabs but needs improvement. Parking brake pads adjusted closer to rotors. Slack removed from parking brake cables. Right side improved a bit but still not functioning properly. Left side is better. Rear wheels removed. Parking brake assembly removed from right side. Pads worn crooked, need to replace. Parking brake assembly removed from left side. Actuating arms for pads are bent; parking brake assemblies disassembled	135.00	1,080.00
4	Verna	April 4 Parking brake bracket for the left side was extremely bent and it didn't work. Straighten and repair brackets; sand and straighten pads. Clean off all the parts and reassemble and cotter pin. Take apart right side brake unit, sand shoes and re assemble and cotter pin.	135.00	540.00

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8	Gerardo	April 4 Sump drain plug crush washer leaking. Oil drained from vehicle. Drain plug safety wired. :engine oil strained through fine mesh filter. No debris. Changed oil filter: accusump has no pressure. Rear deck/floor board and carpet removed to inspect the accusump setup. System pressurized with air to 60psi to inspect for air leaks, none found, holding pressure. System depressurized to 9.5psi. rear deck/floor board and carpet re-installed. Engine oil re-filled. Charged battery. Engine bay cleaned.	135.00	1,080.00
1	Gerardo	April 9 Ran engine to fill accusump. Accusump gauge shows pressure. Engine oil at correct level when accusump is full. Ran engine again, brought up to temp. engine idles.	135.00	135.00
1	Gerardo	April 17 Driver side parking brake assembly reassembled and installed onto vehicle to measure the pad material that has worn. Parking brake assembly removed and disassembled.	135.00	135.00
2	Parts	1.89" Cal piston, S/S, 14LF	47.60	95.20
2	Parts	Piston seal, 1.89" 14LF, DR	6.30	12.60
4	Parts	Caliper piston, S/S R/ELAN	42.00	168.00
4	Parts	Piston seal, 1.334" (#8, 14/4)	9.80	39.20
4	Parts	Type 6 piston (grooved) 1.189, 1.135" HT	34.99	139.96
2	Parts	Race caliper piston, 1.69in 12DRx1.350"	42.00	84.00
4	Parts	Piston seal, 1.19" Dia	9.80	39.20
	Shipping	Incoming shipping for pistons and piston seals	40.10	40.10
2	Parts	Rotors (MBG Ltd)	167.43	334.86

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Shipping	Incoming shipping, (duties, & taxes to follow) for rotors from MBG, Ltd, UK	114.804	114.80
4 Parts	DRS 38x52x10TC Seal	11.58	46.32
2 Parts	DRS 35x52x7TC Seal	11.58	23.16
4 Parts	DRS 30x40x7TC Seal	9.00	36.00
Shipping	Incoming shipping for seals	14.26	14.26
1 Parts	PM-1C DOT-3 brake fluid, 12oz	12.35	12.35
2 Parts	Motul RBF600 DOT-4 brake fluid, 300ml	20.85	41.70
1 Parts	PerTronix 600 Digital REV Limiter	243.47	243.47
1 Parts	416 SS rod, 1-3/4" dia, 1/2ft long	77.042	77.04
1 Parts	Heavy duty grinding wheel for SS	24.962	24.96
1 Parts	High-friction brake and clutch lining, 7-1/2" longx7-1/2" widex5/16"thck	62.24	62.24
1 Parts	GD557 R-4 Compound race brake pads, axle set	223.93	223.93
Shipping	Incoming shipping for brake pads	22.07	22.07
1 Parts	51302 Oil filter	16.97	16.97
Brake	Brake component reconditioning - Reline disc pads for parking brake (MooseMotors)	150.00	150.00
2 Parts	Motul 600 Brake fluid	27.95	55.90
Consuma...	Consumable parts and supplies	30.00	30.00
HAZMAT	Hazardous waste fees	18.00	18.00
	Sales Tax	8.50%	153.60

Total \$18,587.39

Payments/Credits \$0.00

Balance Due \$18,587.39

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0.5	Gerardo	May 10 Brake pads from Porterfield are too tall for rotors, sanded down .2" to fit rotors flush.	135.00	67.50
2	Gerardo	May 17 Hand brake assembled and installed onto vehicle. Hand brake and cables readjusted. Wheels reinstalled and torqued to 75 foot pounds. Skid plate reinstalled. Fluids checked and vehicle ran to make sure vehicle is ready for the customer.	135.00	270.00
3.5	Gerardo	June 14 Vehicle driven around the block to warm up and check rev limiter. Limiter set at 7500 but it did not limit. Rev limit dropped to 6500 on the limiter, tach now cuts correctly at 7500. Fluids checked again after driving, brake fluid is discolored. Oil leaking from timing cover and valve covers, bolts tightened. Any dripping oil degreased to inspect for additional leaks. Carpet behind passenger seat, floor board, and rear seat backing removed to inspect date on fire extinguisher.	135.00	472.50
1	Brian	June 15 and 19 Drop off and pick-up fire bottle for service.	135.00	135.00
1	Gerardo	June 19 Rear seat backing, floor board, and carpet reinstalled.	135.00	135.00

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2	Gerardo	July 18 Investigated brake squealing from rear brakes. Vehicle raised and supported on jack stands. Hand brake pads are squealing. Adjustment for hand brake pads backed off, still noisy. Assemblies for hand brake pads removed and disassembled to further inspect. Inner pad for right side hand brake is binding and outer pad is too thick, removed friction material from the outer and sanded the sides of the inner pad to prevent binding. Outer pad for left side hand brake is too thick, removed friction material for proper fit. Hand brake assemblies reassembled and reinstalled onto vehicle and readjusted. Wheels remounted. Vehicle test driven and hand brake tested at stops to let hand brake components settle. Vehicle detailed. NC	0.00	0.00
3	Gerardo	Sept. 4 Door panel removed for paint job. Rod to door latch and upper door trim piece removed. Front window channel hardware removed to get more movement to remove window. Window removed. Edges of hinges to door taped for reference when reinstalling. Edges of fender taped for protection. Door removed.	135.00	405.00
2	Verna	Oct. 3 Tape off for jam, bolt on door, adjust door, drivers door reinstalled.	135.00	270.00
2	Brian	Drop off and pick up door from paint shop.	135.00	270.00
2	Parts	Front Brake disc (Middle Barton Garage, UK)	170.10	340.20
	Shipping	Incoming international shipping for brake discs from UK	116.64	116.64
	Sublet	Sublet labor Repair and paint driver's door.	1,400.00	1,400.00
	Sublet	OMP fire bottle w/ AFFF fluid and re-cert fee (CTC)	252.55	252.55
	Consuma...	Consumable parts and supplies	25.00	25.00

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[REDACTED]

Invoice Date: 9/1/2025
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Sales Tax	8.50%	31.04
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Total	\$4,190.43
Payments/Credits	\$0.00
Balance Due	\$4,190.43