

Chassis no: 404/X/3073  
 Engine no: BS1/MK11/274  
 Body 5875  
 Orig paint Paramatti Red Corsa 106  
 Orig upholstery s\_Antonio Beige 0104/1

1<sup>ST</sup> BILL  
 MARCH 30, 2018

BILL - 12250 GBP  
 257 hrs labor  
 1270 GBP parts

Arnolt Bristol 1954  
 Reg. no.419 KEC  
 2018?  
 Mileage: 54131

Date in: 22/01/2018  
 Date out: September

WORKSHOP REPORT	Labour	Materials	Outwork	Total cost of task
1.	<u>Stripping down</u>			
	Dismantle car down to its component parts leaving the shell bare			
2.	<u>Peddle box</u>			

	Dismantle unit, bead blast components and paint/powder coat. Fit new bearings and reassemble.				
3.	<u>Head lamps</u>				
	Dismantle and repair bowls, bead blast & paint and reassemble with new LHD P700 lamps retainers and new finishing rims.				
4.	<u>Clock work indicator switch</u>				

	Dismantle seized switch with some difficulty, re tap knob retaining thread, clean up clockwork mechanism lightly lubricate, polish bakeolite knob and reassemble unit.				
5.	<u>Torsion bar adjusters</u>				
	Dismantle clean up components and threads, paint and reassemble.				
6.	<u>Rear suspension units</u>				

	Dismantle units clean and bead blast casings and arms and paint. Upgrade seal housings to accept modern lip oil seals and re-assemble with new bearings.				
7.	<u>Steering rack</u>				
	Clean up and paint, dismantle track rod ends and re shim to correct tolerance. Fit one good second hand steering gator.				
8.	<u>Anti roll bar</u>				
	Clean up bar, bead blast clamps & links & paint.				
9.	<u>Chrome prep</u>				

Dismantle  
windscreen  
pillars and  
remove  
broken off  
screws,  
dismantle  
door catches,  
dismantle rear  
view  
mirror,  
knock out  
dents and  
repair  
splits in  
hub caps,  
make one  
missing  
side  
screen  
support es-  
cutcheon  
to match  
the 3 origi-  
nals, dis-  
mantle  
steering  
column  
and slow  
running  
bracket  
ready for  
zinc  
plating, re-  
move gear  
stick from  
remote  
housing,  
remove  
rear num-  
ber plate  
light and  
remove the

10.	<u>Rear number lamp unit</u>				
	Dismantle electrical components out of accident damaged housing and refit into good original unit				
11.	<u>Remote gear stick unit seized up</u>				

	<p>Water had entered the unit through the gear stick but luckily according to the water mark the car was pointing up hill so did not enter gear box. With a bit of heat and penetrating fluid we could dismantle unit to clean up the corrosion and polish the shaft &amp; ball housing and re-assemble.</p>				
12.	<p><u>Hand</u> <u>brake</u></p>				

	Dismantle seized up hand brake and in the process shearing off the release button. Make new longer button out of stainless steel, re tap actuating shaft, paint, polish bakelite grip and re-assemble				
13.	<u>Throttle peddle assembly</u>				
	Dismantle, clean, paint, re lubricate and reassemble				
14.	<u>Floors and toe boards</u>				



	Strip paint off straighten up and dress out dents etc. sand down etch prime and paint. Chase all securing threads out.				
15.	<u>Prop shaft</u>				
	Remove worn universal joints and bead blast and powder coat components and re assemble with new UJ's				
16.	<u>Gear box tunnel</u>				
	TIG weld aluminium collar to gear stick aperture for gear stick gator to attach to.				
17.	<u>Wheels</u>				

	Have tyres removed and get bead blasted and powder coated.				
18.	<u>Seats</u>				

Take to trimmer for inspection and price to re trim. Strip upholstery off and un rivet steel bases from aluminium seat buckets to allow access to have them bead blasted, repair broken joints and painted. Re make ply strips that the upholstery is attached to. Remove rotten ash doweling that was nailed to the perimeter edge of the bucket which the upholstery was also attached to. Steam new lengths of ash and re-fit and screw to

19.	<u>Front cross member</u>				
	<p>Mount in jig, clean and dismantle unit and find in the past it had a considerable accident on the LH side which had pushed the top wish bone mounts in-board bending the base into the cross member box. This has scrapped the cross member box, source good replacement bead blast and powder coat.</p>				
	<u>Parts used</u>				

	Rear suspension unit seals x4		21.60		
	Rear suspension unit bearings x2		33.60		
	Paint stripper		19.95		
	Panel wipe (degreaser)		5.00		
	Paint		70.00		
	"O" rings for suspension units		2.88		
	Powder coating wheels x5		360.00		
	Peddle box bushes		31.20		
	Head lamp outer rims x2		36.00		
	Head lamp retainer rims x2		30.00		
	Head lamps P700 (left hand drive)		82.00		
	Head lamp bulbs (halogen) x2		8.00		
	Adjustable shock absorbers x4		456.00		
	Front and rear Lucas side/brake/indicator lamps x4		144.00		

	Post and packing		11.00		
	New torque reaction buffers x2		30.00		
	Bead blast Alfin drums		66.00		
	Import duty on baulk head chassis plate		23.12		
	Good second hand steering rack gator		10.00		
	Good s/h number plate light housing		30.00		
	Good s/h front cross member		500.00		
	<b>Labour</b> 257hrs @ £40.00/hr	10280.00			
		10280.00	1970.35		<b>=SUM(LEFT) T) 12250.35</b>

Cheques payable to Charles Russell  
or Bank Transfer HSBC Sort Code: 40-21-19 Account No: 91346334 Branch  
BIC HBUKGB4131R IBAN GB78HBUK40211991346334 SWIFT BIC  
HBUKGB4B

**Charles Russell**  
***Vintage Sports Car Engineers***

Date: 22/01/2018

**44 Whitbourne Moor, Corsley, Warminster, Wiltshire BA12 7QL**

Tel: 01373 832220 Mob: 07714 330683 Email: [vsc\\_engineers@lineone.net](mailto:vsc_engineers@lineone.net)



Panel Beating and Restoration

END JAN + FEB ✓

Invoice Address		Invoice No.:	272
		Invoice Date:	28-Feb-2018
		Due Date:	31-Mar-2018

Description			
Arnolt Bristol			
Completion of works to Jan and Feb as per schedules attached			
		Labour	£1,406.25
		Materials	£105.94
		Subtotal	£1,512.19
		Vat @20%	£302.44
		<b>Total</b>	<b>£1,814.63</b>

Please make cheques payable to Coachbuilt Cars Ltd

and send to :

180 Winterbourne Monkton

Swindon

Wilts

SN4 9NW

IBAN GB06NWBK52802735737913

BIC NWBKGB2L







Panel Beating and Restoration

VERY  
MINOR  
ERROR  
10.20 + 20%  
2.04  
12.04 #

Invoice Address		Invoice No.:	274
		Invoice Date:	31-Mar-2018
		Due Date:	30-Apr-2018

Description			
Arnolt Bristol			
Completon of works in Mar as per schedules attached			
		Labour	£591.45
		Materials	£10.20
		Subtotal	£601.65
		Vat @20%	£120.33
		<b>Total</b>	<b>£721.98</b>

Please make cheques payable to Coachbuilt Cars Ltd  
and send to :  
180 Winterbourne Monkton  
Swindon  
Wilts  
SN4 9NW

IBAN GGB30NWBK52302735637765  
BIC NWBKGB2L  
Acc. No. 35637765  
Sort code 52-30-27





APRIL + MAY  
 (VAT 624#  
 NOT PAID TIL LATER

Invoice Address		Invoice No.:	278
		Invoice Date:	31-May-2018
		Due Date:	30-Jun-2018

Description			
Arnolt Bristol			
Completon of works in Apr and may as per schedules attached			
	Labour		£3,037.50
	Materials		£85.61
	Subtotal		£3,123.11
	Vat @20%		£624.62
	<b>Total</b>		<b>£3,747.73</b>

PAID LATER

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 180 Winterbourne Monkton  
 Swindon  
 Wilts  
 SN4 9NW

IBAN GGB30NWBK52302735637765  
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 Acc. No. 35637765  
 Sort code 52-30-27

Client:		Vehicle: Arnolt Bristol 3073				
DATE		£37.5p/h	COST			
			MATERIALS	LABOUR	TOTAL	
4/5/18	Reshape boot area and lower OSR wing edge	2		75	75.00	Nick
4/26/18	Remove boot lid for access. Insert dollies behind skin between outer and inner panels, reshape NSR wing where accessible. Reshape dent behind NS door.	6.5		243.75	243.75	Nick
4/30/18	Insert dollies behind NSF wing between inner and outer panels. Reshape various areas in NSF wing. Begin removing severe dents containing filler in OSF wing.	4.5		168.75	168.75	Nick
				0	0.00	
5/10/18	Straighten lower edge OSR wing, bring turned under sections back to correct shape. Adjust skin either side of split for welding together. OSF wing beat out dents.	3		112.5	112.50	Nick
				0	0.00	
5/9/18	Cut out section from the OSR wing, make insert piece for edge and weld in. Turned flange so that it mated up against the inner wheel tub and spot welded back together. 1x oxy weld	6	12.00	225	237.00	Lee
5/10/18	Mig welded gaps at either end underneath. Fabricated and welded a piece into place at the inner rear OSR. 1x oxy weld, 1 x mig weld	6.5	22.00	243.75	265.75	Lee
5/15/18	Removed both doors. Began to planish dents from the NS door and cut a new section for the lower half.	5.5		206.25	206.25	Lee
5/16/18	Cut a piece of 20 swg steel for lower door repair, wheeled it into shape. Began to replace the bottom of the door.	6		225	225.00	Lee
5/17/18	Welded the new bottom section into the NS door.	5.5		206.25	206.25	Lee
5/18/18	Welded the new doorskin into place and began to planish.	6.5		243.75	243.75	Lee
5/21/18	Planishing door skin.	6		225	225.00	Lee
5/22/18	Planishing door skin.	6.5		243.75	243.75	Lee
5/23/18	Final wheeling and planishing door skin.	6		225	225.00	Lee
5/25/18	Spot welded the doorskin into place, fitted the door back on to the car and roughly cut in.	6.5		243.75	243.75	Lee
5/30/18	Began fabricating a new door skin for the OS door.	6		225	225.00	Lee
				0	0.00	
				0	0.00	
				0	0.00	
				0	0.00	
	1/2 sheet 20swg steel		34.61	0	34.61	
	Cutting disc x2		3.40	0	3.40	
	Sanding disk x3		5.10	0	5.10	
	Finger belts x5		8.50	0	8.50	
				0	0.00	
				0	0.00	
	Totals		85.61	3037.50	3123.11	



JUNE  
MATERIALS  
994.39 + 20% VAT.

Invoice Address		Invoice No.:	279
		Invoice Date:	30-Jun-2018
		Due Date:	31-Jul-2018

Description			
Arnolt Bristol			
Completon of works in Apr and may as per schedules attached			
	Labour	£3,806.89	←→ 28/2.80
	Materials	£994.39	-
	Subtotal	£4,801.28	- 3806.89
	Vat @20%	£960.26	←→ 773.80 ←→ 807.80
	<b>Total</b>	<b>£5,761.54</b>	<del>2616.30</del> <b>4580.69</b>

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Swindon  
Wilts  
SN4 9NW

IBAN GGB30NWBK52302735637765  
BIC NWBKGB2L  
Acc. No. 35637765  
Sort code 52-30-27

Client:		Vehicle: Arnolt Bristol 3073				
DATE		£37.5p/h	COST			
			MATERIALS	LABOUR	TOTAL	
6/1/18	Wheeling door skin and fabricating a new bottom section for the door	6		225	225.00	Lee
6/4/18	Wheeling doorskin, test on over old one for fit and continue to shape	6.5		243.75	243.75	Lee
6/5/18	Continue to shape door skin on the wheel.	5.5		206.25	206.25	Lee
6/6/18	Wheeling door skin. Removing old skin from door and removing surface rust from inside door structure.	6		225	225.00	Lee
6/8/18	Welded the new bottom section into the door frame. Repaired corroded sections on the inside of the door frame. Fitted door frame on to the car and trimmed the landings roughly to size. 1x oxy weld	7	12.00	262.5	274.50	Lee
6/11/18	Set up spot welder and spot welded the skin to the door frame. Welded the skin to the swaged section of the top of the door. Anded and planished weld.	6.5	12.00	243.75	255.75	Lee
6/12/18	Fitted OS door, marked in gaps, removed and trimmed to line. Started to gap NS door.	6		225	225.00	Lee
6/13/18	Finished gapping the NS door.	5		187.5	187.50	Lee
6/28/18	Removed the OS bonnet mounting (hinge socket) repositioned it so that the bonnet sat square. Cut out the inner edge of the OS wing front and fabricated a new piece.	6		225	225.00	Lee
6/29/18	Set up new section and tacked into place. Measured up and made new edge section, welded into place. 1x oxy weld	5.5		206.25	206.25	Lee
				0	0.00	
6/25/18	Go over car with Tom, discuss repairs from now visible after blasting. Clean up NS inner wing to chassis, move inner wing back to position and clamp, gas weld in place, planish and fettle split and mishaped areas and weld up, clean up lower flange/support and weld to chassis. 1x oxy weld	7	12.00	262.5	274.50	Brad
6/26/18	Reshape OS inner wing and reweld to chassis, planish up dents and weld up splits. Clean up welds. Straighten up sill line on OS and weld supports back to chassis or sill. Melt out lead on NS and OS sill to wing joins to inspect cracks. Start to planish up lows in OS arch	7	12.00	262.5	274.50	
6/27/18	Discuss OS sill with Tom, cut out arch section to show sill, repair sill and make new outer arch section. Cut repair to fit arch. Gas weld inrepair and start to planish up weld. 1x oxy weld	7	12.00	262.5	274.50	
				0	0.00	
				0	0.00	
				0	0.00	
				0	0.00	
	Body lead and paste flux		162.09	0	162.09	
	Blast cleaning and priming		650.00	0	650.00	
	Transport		100.00	0	100.00	
	Cutting disc x3		5.10	0	5.10	
	Sanding disc x9		15.30	0	15.30	
	Finger belts x7		1.90	0	1.90	
				0	0.00	
				0	0.00	
	Totals		994.39	2812.50	3806.89	

760  
12  
1.8p  
803.80  
773.80

8-10-2018 2<sup>nd</sup> BILL

12,982

Chassis no: 404/X/3073  
Engine no: BS1/MK11/274  
Body 5875  
Orig paint Paramatti Red Corsa 106  
Orig upholstery s\_Antonio Beige 0104/1

216 hrs labor - 8640GBP  
43426BP parts

Arnolt Bristol 1954  
Reg. no.419 KEC  
2018?  
Mileage: 54131

Date in: 22/01/2018  
Date out: October/ Nov

WORKSHOP REPORT	Labour	Materials	Outwork	Total cost of task
1.	<u>Reassemble chromed and zinc plated components</u>			
	Door catches, rear view mirror, hand throttle assembly, gear stick.			
2.	<u>Front cross member</u>			



	Rebuild using a good second hand cross member and LH brake back plate as both of these were badly distorted due to a previous accident.				
3.	<u>Rear axle</u>				

	<p>Dismantle, access condition and find crown wheel and pinion worn with chips off teeth. Clean down axle casing and paint and supply new crown wheel and pinion ready for rebuild. Dismantle half shaft units, clean and paint bearing housings. Half shafts, fit repair sleeve to oil seal bearing surfaces and re-assemble with new bearings, seals and tab washers.</p>				
4.	<u>Brakes</u>				

	Clean up wheel cylinders and re-assemble with new seals and relined shoes.				
5.	<u>Wiring</u> Remove wiring loom from car body and have a new one made with extra provision for an electric fan				
6.	<u>Petrol sender</u> Remove with some difficulty replace broken studs and free up mechanisms.				
7.	<u>Chassis</u>				

	<p>Cracks were found in the front cross member mounting flanges. Travel to the panel shop with my TIG welder and weld up. The cracks are usually found in very high mileage cars, but in this case probably caused by repetitive heavy braking. On re-assembly of the cross member to the car I will add some extra bolt in brackets I have developed to improve the rigidity and stop it happening again.</p>				
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8.	<u>Worn doors hinges</u>				
	Make and fit new door pins and ream hinges to fit				
9.	<u>Badges</u>				
	Take mould of boot profile and send to badge maker so he can get the correct curvature to the badge.				
10.	<u>Sill covers</u>				
	Make new sill cover plates out of stainless steel				
11.	<u>Hood</u>				
	Fit up windscreen pillars fit hood and adjust then strip off old materials ready to clean up frame ready for paint.				



	<b><u>Parts used</u></b>			
	Stripping, bead blasting and powder coating various parts		340.00	
	Tyre removal, refitting and balancing		57.00	
	Inner tubes x5		96.00	
	LH front brake back plate		150.00	
	Zinc plate steering column and throttle body		72.00	
	Chrome plating windscreen pillars and trims		216.00	
	Gear stick		57.60	
	Hub caps		230.40	
	Rear view mirror mount		31.20	

	Side screen mounts x4		28.80		
	Number plate light		43.20		
	Rear hood fixings x3		21.60		
	Boot catch		21.60		
	Mirror fittings		8.64		
	Door catch covers x2		33.60		
		labour	materials	Out work	Total cost of task
	<b><u>Parts used cont</u></b>				
	Ash seat doweling		10.00		
	Badge and profile posting		10.25		
	Wiring loom		587.16		
	Additional modification to loom for fan		30.00		
	Top wish bone bushes x4		36.24		
	Rear hub oil seals x2		16.80		
	Half shaft tab washers x2		7.40		
	Shaft repair sleeves x2		69.44		
	Post and packing		4.74		



	Front hub oil seals x2		17.28		
	Front hub inner bearings x2		40.18		
	Front hub outer bearings x2		23.84		
	Rear hub bearings x2		36.08		
	Brake seals x6		27.00		
	New axle crown wheel and pinion		735.00		
	Tyres x5 Avon turbo steel 185x16		1130.00		
	Rear view mirror glass		7.00		
	Satin black paint		40.00		
	Spring retaining bolts x2		10.00		
	7/16 bsf nuts x8		4.88		
	Spring rebound stops x2		12.00		
	Check strap bolts x2		3.74		
	TIG welding		40.00		
	Trailer hire		36.00		

	<b>Labour</b> 216hrs @ £40.00/hr	8640.00		
		8640.00	4342.67	
				<b>=SUM(LEFT)</b> <b>12982.67</b>
<p>Cheques payable to <u>Charles Russell</u>  or Bank Transfer HSBC Sort Code: 40-21-19 Account No: 91346334 Branch  BIC HBUKGB4131R IBAN GB78HBUK40211991346334 SWIFT BIC  HBUKGB4B</p>				

**Charles Russell**  
**Vintage Sports Car Engineers**

Date: 10/08/2018

**44 Whitbourne Moor, Corsley, Warminster, Wiltshire BA12 7QL**  
Tel: 01373 832220 Mob: 07714 330683 Email: vsc\_engineers@lineone.net

10-10-18 3rd BIL

Chassis no: 404/X/3073  
Engine no: BS1/MK11/274  
Body 5875  
Orig paint Paramatti Red Corsa 106  
Orig upholstery s\_Antonio Beige 0104/1



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1.	<u>Reassemble chromed and zinc plated components</u>			
	Door catches, rear view mirror, hand throttle assembly, gear stick.			
2.	<u>Front cross member</u>			

	Rebuild using a good second hand cross member and LH brake back plate as both of these were badly distorted due to a previous accident.				
3.	<u>Rear axle</u>				

	<p>Dismantle, access condition and find crown wheel and pinion worn with chips off teeth. Clean down axle casing and paint and supply new crown wheel and pinion ready for rebuild. Dismantle half shaft units, clean and paint bearing housings. Half shafts, fit repair sleeve to oil seal bearing surfaces and re-assemble with new bearings, seals and tab washers.</p>				
4.	<u>Brakes</u>				

	Clean up wheel cylinders and re-assemble with new seals and relined shoes.				
	WORK-SHOP REPORT	Labour	Materials	Outwork	Total cost of task
5.	<u>Wiring</u>				
	Remove wiring loom from car body and have a new one made with extra provision for an electric fan				
6.	<u>Petrol sender</u>				
	Remove with some difficulty replace broken studs and free up mechanisms.				
7.	<u>Chassis</u>				

	<p>Cracks were found in the front cross member mounting flanges. Travel to the panel shop with my TIG welder and weld up. The cracks are usually found in very high mileage cars, but in this case probably caused by repetitive heavy braking. On re-assembly of the cross member to the car I will add some extra bolt in brackets I have developed to improve the rigidity and stop it happening again.</p>				
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8.	<u>Worn doors hinges</u>				
	Make and fit new door pins and ream hinges to fit				
9.	<u>Badges</u>				
	Take mould of boot profile and send to badge maker so he can get the correct curvature to the badge.				
10.	<u>Sill covers</u>				
	Make new sill cover plates out of stainless steel				
11.	<u>Hood</u>				
	Fit up windscreen pillars, fit hood and adjust then strip off old materials ready to clean up frame ready for paint.				



12.	<u>Screen</u>				
	Make tem- plate for new screen to be made.				
	WORK- SHOP RE- PORT	Labour	Materials	Outwork	Total cost of task
13.	<u>Chrome &amp; zinc plating</u>				
	Repair and collect up last parts for chrome and zinc plating and take to platers.				
14.	<u>Wheels</u>				
	Collect from pow- der coaters and have 5 new Avon turbo steel tyres fitted and bal- anced in- cluding new inner tubes.				
15.	<u>Tonneau</u>				
	Make new rear stain- less steel attachment rod.				

16.	<u>Instru- ments</u>				
	Refurbish / replace as necessary.				
	<u>Parts used</u>				
	Stripping, bead blast- ing and powder coating various parts		340.00		
	Tyre re- moval, re- fitting and balancing		57.00		
	Inner tubes x5		96.00		
	LH front brake back plate		150.00		
	Zinc plate steering column and throttle body		72.00		
	Chrome plating windscreen pillars and trims		216.00		
	Gear stick		57.60		
	Hub caps		230.40		
	Rear view mirror mount		31.20		
	Side screen mounts x4		28.80		
	Number plate light		43.20		

	Rear hood fixings x3		21.60		
	Boot catch		21.60		
	Mirror fittings		8.64		
	Door catch covers x2		33.60		
	Ash seat doweling		10.00		
	Badge and profile posting		10.25		
	Wiring loom		587.16		
	Additional modification to loom for fan		30.00		
	Top wish bone bushes x4		36.24		
	Rear hub oil seals x2		16.80		
	Half shaft tab washers x2		7.40		
	Shaft repair sleeves x2		69.44		
	Post and packing		4.74		
	Front hub oil seals x2		17.28		
	Front hub inner bearings x2		40.18		
	Front hub outer bearings x2		23.84		

Rear hub bearings x2	36.08		
Brake seals x6	27.00		
New axle crown wheel and pinion	735.00		
New body badges x4	475.00		
Rear view mirror glass	7.00		
Satin black paint	40.00		
Spring retaining bolts x2	10.00		
7/16 bsf nuts x8	4.88		
Spring rebound stops x2	12.00		
Check strap bolts x2	3.74		
TIG welding	40.00		
Trailer hire	36.00		
New old stock ignition key	5.00		
Cosworth pistons STD	1065.60		
New unleaded valves x 12	316.80		
Braided brake pipe unions x 6	75.90		

	Braided brake pipe		9.80		
	Good set of con rods		660.00		
	New Valve springs		120.00		
	New cam shaft		828.00		
	New cam followers		363.60		
	Zinc plate rear hood bar				
	" side screen frames				
	"all parts for bonnet catch, receiver and lever				
	" carburetor throttle links				
	Chrome plate hood header rail fixing screws x2 , hood frame pivot screws x2, door catch receivers x2.		115.20		
	Anti roll bar bushes		20.00		
	Rear axle bump stops		38.00		
	Flexible wiper motor mounting plate		27.00		

	Stainless steel rod		12.50		
	Oil temp gauge		109.50		
	Water temp gauge		109.50		
	Instrument bezels and gaskets		36.00		
	Deposit for over drive kit		1000.00		
	<b>Labour</b> 161.5hrs @ £40.00/ hr	6460.00			
		6460.00	8600.07		
					<b>=SUM(LEFT) 15060.07</b>
<p>Cheques payable to <u>Charles Russell</u>  or Bank Transfer HSBC Sort Code: 40-21-19 Account No: 91346334 Branch  BIC HBUKGB4131R IBAN GB78HBUK40211991346334 SWIFT BIC  HBUKGB4B</p>					

**Charles Russell**  
**Vintage Sports Car Engineers**

Date: 10/10/2018

**44 Whitbourne Moor, Corsley, Warminster, Wiltshire BA12 7QL**

Tel: 01373 832220 Mob: 07714 330683 Email: vsc\_engineers@lineone.net

Chassis no: 404/X/3073  
 Engine no: BS1/MK11/274  
 Body 5875  
 Orig paint Paramatti Red Corsa 106  
 Orig upholstery s\_Antonio Beige 0104/1

CORRECTION  
 TO PREV BILLS

OCT 12, 2018

LABOR 161.5 hrs X 40 = 6460 GBP  
 PARTS 4984 GBP

Arnolt Bristol 1954  
 Reg. no.419 KEC  
 2018?  
 Mileage: 54131

Date in: 22/01/2018  
 Date out: October/ Nov

WORKSHOP REPORT	Labour	Materials	Outwork	Total cost of task
1.	<u>Welding</u> TIG weld extra edge to bonnet to correct gap and weld up crack in boot that was spotted at the paint shop			
2.	<u>Chrome</u>			

	Repair door striker and take final parts to platers for chrome and zinc.				
3.	<u>Engine</u> Strip engine down, clean up and measure up. Take head to gas flow expert for assessment and all good. Source good set of con rods and balance. Take block, crank, rods, pulley, flywheel, diaphragm clutch cover to machine shop for machining and balancing.				



	Start re-build engine components , cylinder head, oil pump, carburettors etc.				
4.	<u>Wiper motor</u>				
	Find motor seized up, dismantle free up, clean up, lubricate and re-assemble with new rubber mounting plate as original had disintegrated.				
	<b>WORK-SHOP REPORT</b>	Labour	Materials	Outwork	Total cost of task
5.	<u>Regulator</u>				
	Clean up regulator box and supply replacement cover as original broken in a few places.				

6.	<u>Horn relay</u> Test relay and find knackered, supply good working original and clean up.				
7.	<u>Hood frame</u> Free up hood frame, bead blast and paint. Repair header bar securing screws with new stainless steel threads.				
8.	<u>Wiring</u> Start fitting new wiring loom and connecting up to components.				
9.	<u>Front cross member</u> <u>body supports</u> Start making up front body supports and towing bracket				

10.	<u>Tonneau</u>				
	Make new rear stain- less steel attachment rod.				
11.	<u>Instru- ments</u>				
	Refurbish / replace as necessary.				
	<u>Parts used</u>				

	Trailer hire to paint shop & back		72.00		
	New old stock ignition key		5.00		
	Cosworth pistons STD		1065.60		
	New unleaded valves x 12		316.80		
	Braided brake pipe unions x 6		75.90		
	Braided brake pipe		9.80		
	Good set of con rods		660.00		
	New Valve springs		120.00		
	New cam shaft		828.00		
	New cam followers		363.60		
	Zinc plate rear hood bar				
	" side screen frames				
	"all parts for bonnet catch, receiver and lever				
	" carburetor throttle links				

Chrome plate hood header rail fixing screws x2 , hood frame pivot screws x2, door catch receivers x2.		115.20		
Anti roll bar bushes		20.00		
Rear axle bump stops		38.00		
Flexible wiper motor mounting plate		27.00		
Stainless steel rod		12.50		
Oil temp gauge		109.50		
Water temp gauge		109.50		
Instrument bezels and gaskets		36.00		
Deposit for over drive kit		1000.00		
<b>Labour</b> 161.5hrs @ £40.00/ hr	6460.00			
	6460.00	4984.40		<b>11444.40</b>

Cheques payable to Charles Russell  
or Bank Transfer HSBC Sort Code: 40-21-19 Account No: 91346334 Branch  
BIC HBUKGB4131R IBAN GB78HBUK40211991346334 SWIFT BIC  
HBUKGB4B

**Charles Russell**  
***Vintage Sports Car Engineers***

Date: 12/10/2018

**44 Whitbourne Moor, Corsley, Warminster, Wiltshire BA12 7QL**  
Tel: 01373 832220 Mob: 07714 330683 Email: [vsc\\_engineers@lineone.net](mailto:vsc_engineers@lineone.net)

DAVID

# Nightingale Coachtrimming

20 Gastard Lane, Gastard, CORSHAM, Wiltshire, SN13 9QN

Telephone: 01249-701271

Nightingalene20@outlook.com

24th

October 2018

INVOICE: 3600, J10718

Vehicle: Arnolt Bristol

Trim supplied and prepared seat pans to original design, using Connolly VM3234 leather. Includes creating cushion foam pads.

Make and fit hood, using acrylic Stay-fast fabric, similar in design to existing hood, but with a modified window-shape to improve aesthetics. Including fitting fasteners to bodywork.

Make and fit tonneau in same fabric, with centre zip. Includes fitting fasteners to bodywork.

Trim door cavities in beige leather-cloth to match seats, following original design.

Make three-piece flat-fluted rubber mats with underfelt bonded and edged in black leather-cloth. Fitted to bulkhead, front floor, and sill.

Design, make and fit transmission tunnel cover in 1.5mm plywood, trimmed in VM3234 leather, together with separate hand-brake gaiter.

Make suitable flap in hooding fabric, and fit to bottom edge of side-screen frames.

Make simple bag to hold side-screens, in matching beige leather-cloth.

925 736  
2280

£853.05

**£5,118.28**

Total materials and labour:

£4,265.23

VAT @ 20% ... ..

Total Due: ... ..

331963

To enable transfer of funds direct to our bank, details are as follows:

IBAN Ref: GB95 LOYD 3091 9901 4523 76

BIC Ref: LOYDGB21207

W1-2815484

Chassis no: 404/X/3073  
Engine no: BS1/MK11/274  
Body 5875  
Orig paint Paramatti Red Corsa 106  
Orig upholstery s\_Antonio Beige 0104/1

12-4-18 BILL  
LABOR 322 hrs X 40 = 12,880  
PARTS 5573  
(GEARBOX SHAFT, ALLOY RADIATOR  
TUNED EXHAUST, OVERDRIVE)  
BRUNNICE

Arnolt Bristol 1954  
Reg. no.419 KEC  
2018?  
Mileage: 54131

Date in: 22/01/2018  
Date out: October/ Nov

WORKSHOP REPORT	Labour	Materials	Outwork	Total cost of task
1.	<u>Engine</u>			



	<p>Travel to machine shop and test assemble main engine components to check for clearances as a higher lift cam is fitted and on occasions the crank balance weights have clipped it. Obviously this has to be addressed before the crank gets balanced. All good and parts returned to workshop for cleaning, painting and final assembly into a completely rebuilt engine.</p>				
2.	<u>Diff unit</u>				

	<p>Strip down damaged diff, repair oil catcher and face bearing carrier caps. Wash up differential parts and paint diff carrier and fit new rubber top swivel gator. Assemble new crown wheel and pinion along with all new bearings and pinion seal. Mesh and shim crown wheel and pinion to attain correct tooth contact and finally torque up and lock wire fixings. Fit unit into axle casing and build up rear axle unit.</p>				

3.	<u>Gearbox</u>				

Strip gear box clean up and inspect components. Find engagement teeth on 3<sup>rd</sup> gear badly chipped and water had got into the needle roller of the input shaft to main shaft, this had caused enough pitting to unfortunately scrap both of these. Replacements are astronomically priced at £1920.00 so I robbed some good ones out of one of my gearbox's and will commission some new ones to be made in the future.

4.	<u>Stub axle steering arms</u>				
	Find steering arms had been modified with some extra stiffening welded along the inner edge, this is not good practice as it will concentrate all the flex to the root of the arm which with time may crack, replace both arms as one was bent anyway with good STD ones.				
5.	<u>Fuel tank pick up</u>				
	Remove pick up from tank and make up new pick up fuel strainer and refit.				

6.	<u>Fuel tank sender</u>				
	Remove sender with a little difficulty and free up unit and test. Find resistance winding connection corroded at termination . Free up a little more wire and reconnect, test with original gauge and refit to tank.				
7.					
8.	<u>Wiring</u>				
	Continue fitting new wiring loom and connecting up to components.				
9.	<u>Oil cooler</u>				
	Make up brackets and fixing to mount cooler and thermostat.				

10.	<u>Side screens</u> Make up new Perspex screens and fit to frames.				
11.	<u>Choke cable</u> Remove cable outer and inner as too short and re fit and re solder new one in.				
12.	<u>Water pump</u> Strip down pump, bead blast components, repair impeller and rebuild with new bearing and carbon thrust (carbon thrust found in spares box).				
13.	<u>Carburetors</u>				

	Strip carbs down clean up and fit new spindles and bushes and rebuild with one new float. (gaskets found in spares)				
14.	<u>Seat belt fixings</u>				



	<p>Plan and make up structure to mount shoulder strap eyes to. This involved mounting a section between the rear shock absorber mounts and making up a reinforcing angle which fitted exactly to the profile of the rear deck behind the seats and making up some steel connecting bars between.</p>				
	<p>The belts have to be able to clip on and off these eyes to allow the hood to go up and down.</p>				

	<u>Refit com-</u> <u>ponents</u> <u>back onto</u> <u>car</u>				

	<p>Torsion bars, bearing housings &amp; adjusters and fill with oil. Rear axle, fill with oil and fit new axle check straps and bump stops and trammel axle up. Front cross member, Steering rack, one shot pipes, Peddle box, Brake master cylinder and all new pipe work, Fuel tank and fuel line, Steering column and top bracket after making insulating bushes, Instruments to dash board, wiper motor and rack,</p>				
	<p><b><u>Parts used</u></b></p>				

	Door seals		20.72	
	Fuse box		14.32	
	Zinc plating of instrument clamps and flasher relay		33.00	
	Alloy radiator		718.00	
	Postage of clock for repair & cam		25.00	
	Brake pipe unions x9		10.80	
	Brake pipe x 4m		10.40	
	Carburettor float		33.00	
	P&P		7.44	
	Head gasket		184.80	
	Block to head oil feed pipe		4.80	
	Fuel pump re build kit		32.00	
	Brake fluid		4.63	
	Aluminium sealing washers		2.10	
	Electric radiator fan		30.67	
	Water pump bearing		54.65	
	Oil cooler pipe unions		39.96	
	Oil cooler adapter		54.00	

	Oil cooler adaptor unions		9.00		
	Floor board dealing felt		8.75		
	Gear box syncro rings x3		388.80		
	Seat belt eye bolts x8		18.40		
	Carburettor spindles x3		41.91		
	Carburettor spindle bushes x6		15.90		
	P&P		5.94		
	Speedo cable		25.44		
	Rev counter cable		24.00		
	Brake master cylinder		122.00		
	Alternator		64.00		
	<b><u>Parts used cont</u></b>				
	Good second hand fan for alternator		10.00		
	USB & cigar sockets		33.00		
	Oil cooler		45.65		
	Oil cooler hose		22.00		

Oil cooler thermostat	45.00		
Rocker box screws	136.00		
Spigot bearing	17.82		
Bell housing bearing	28.00		
Main shaft front bearing	48.50		
Main shaft mid	37.00		
Main shaft rear	48.50		
Needle rollers x240	96.00		
Lay shaft front bearing	40.00		
Lay shaft mid	52.00		
Lay shaft rear	23.50		
Input needle roller	75.00		
Warning light bulbs	1.50		
Tuned exhaust manifold	780.00		
Steel for seat belt structure	12.00		
Choke cable	8.64		
Balance on over drive	650.00		
Good gear box main shaft and input shaft	960.00		

	Third gear syncro hub		180.00		
	Steering arms x2		160.00		
	Axle check straps		20.00		
	Gear box drain heli-coil repair		15.00		
	Aluminium for bearing clutch release adaptor		24.00		
	<b>Labour</b>	12880.00			
	322hrs @ £40.00/hr				
		12880.00	5573.54		<b>18453.54</b>
<p>Cheques payable to <u>Charles Russell</u>  or Bank Transfer HSBC Sort Code: 40-21-19 Account No: 91346334 Branch  BIC HBUKGB4131R IBAN GB78HBUK40211991346334 SWIFT BIC  HBUKGB4B</p>					

**Charles Russell**  
**Vintage Sports Car Engineers**

Date: 04/12/2018

**44 Whitbourne Moor, Corsley, Warminster, Wiltshire BA12 7QL**

Tel: 01373 832220 Mob: 07714 330683 Email: [vsc\\_engineers@lineone.net](mailto:vsc_engineers@lineone.net)