

MGA

2  
COLUMNS



Accessories - 1

Body - 2

Brakes - 3

Cooling system - 4

Drive train - 5

Electrical - 6

Engine - 7

Fuel system - 8

Ignition - 9

Interior - 10

Steering - 11

Suspension - 12

Wheels + Tires - 13

Exhaust - 14

Misc - 15

Instruments - 16

Weather Equipt. - 17

Chassis - 18



Heater/Defrost - 19

CLUTCH - 20



**Wilson Jones®**

|       |                     |
|-------|---------------------|
| 74102 | 2 Columns           |
| 74103 | 3 Columns           |
| 74104 | 4 Columns           |
| 74106 | 6 Columns           |
| 74108 | 8 Columns           |
| 74112 | 12 Columns          |
| 74115 | Single Entry Ledger |
| 74116 | Cash                |
| 74118 | Record              |

80 Pages

1960 MGA 1600 Roadster

VIN - GHNL 73944

Engine# 16GA/U/5262

Body# B5774

Source

DATE

11-2 02 Pur

11-6 02 Shi

11-9 02 Auto

3 11-12 " ~~Auto~~

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Source

1 - Moss

2 - Victoria British

3 - Scarborough Faire

4 - Brit. Sports Car Center

5 - European + American  
Auto upholstery

6 - Clarke Spares

7 - Local Auto Supply/Shop

~~8 - Britcar~~

8 - other

ACCO Brands, Inc.  
300 Tower Parkway  
Lincolnshire, IL 60069-3640

Made in U.S.A.

Yellow highlight = Replaced item, improved later, no longer used.



0 Roadster  
944  
/u/5262  
14

Source  
s  
oria British  
orough Faire  
Sports Car Center  
American  
upholstery  
e Spares  
Auto Supply/Shop

later, no longer  
used.

| Source | DATE    | Item                                    | System | Quantity |                      | Labor             | Parts + Labor |
|--------|---------|-----------------------------------------|--------|----------|----------------------|-------------------|---------------|
|        |         |                                         |        | ↓        | ↓                    |                   |               |
|        | 11-2-02 | Purchased MGA                           |        | 15       | 10,500 <sup>00</sup> |                   |               |
|        | 11-6-02 | Ship car from Utah                      |        | 15       |                      | 475 <sup>00</sup> |               |
|        | 11-9-02 | Autolite #404 spark plugs               |        | 9        | 4                    | 400               |               |
| 3      | 11-12   | <del>Owner's Manual</del> Owners Manual |        | 15       |                      | 1450              |               |
| "      | "       | Carpet set, main, black                 |        | 10       |                      | 19995             |               |
| "      | "       | Seat cushion, L/H, bottom               |        | 10       |                      | 5365              |               |
| "      | "       | " " " " R/H, "                          |        | 10       |                      | 5365              |               |
| "      | 11-14   | Motor mounts, L+R sides                 |        | 7        | 2                    | 2026              |               |
| "      | 12-13   | Radiator hose, TOP/BOTTOM               |        | 4        | 2                    | 1050              |               |
| "      | "       | Hose - PIPE TO Pump                     |        | 4        | 2                    | 700               |               |
| "      | "       | Gasket, valve cover                     |        | 7        | 2                    | 570               |               |
| "      | "       | Water drain tap - engine block          |        | 4        | 1                    | 575               |               |
| "      | "       | Distributor, rebuilt                    |        | 9        | 1                    | 19995             |               |
| "      | "       | Distributor cap                         |        | 9        | 2                    | 2195              |               |
| "      | "       | Rotor                                   |        | 9        | 2                    | 470               |               |
| "      | "       | Point set                               |        | 9        | 2                    | 630               |               |
| "      | "       | Condensor                               |        | 9        | 2                    | 470               |               |
| "      | "       | Hood buffer set                         |        | 2        | 1                    | 505               |               |
| "      | "       | Shock absorber fluid, qt.               |        | 12       | 1                    | 885               |               |
| "      | "       | Seat back repair kit                    |        | 10       | 2                    | 6950              |               |
| 2      | 1-7-03  | Distributor vacuum unit                 |        | 9        | 1                    | 6600              |               |
| 4      | 1-25    | New Carb. throttle shafts + bushings    |        | 8        | 2                    | 8772              |               |
| 1      | "       | " " piston springs (red)                |        | 8        | 2                    | 590               |               |
| 1      | "       | " " Rebuild kit                         |        | 8        | 1                    | 9995              |               |
| 1      | "       | " " lever, front                        |        | 8        | 1                    | 1295              |               |
| 1      | "       | " " lever, rear                         |        | 8        | 1                    | 1295              |               |
| 1      | "       | " " jet lever link                      |        | 8        | 2                    | 2190              |               |
| 1      | "       | " " gas filter screens                  |        | 8        | 2                    | 780               |               |
| 1      | "       | " " jet bearing kit                     |        | 8        | 2                    | 4990              |               |
| 1      | "       | " " union, carb to vac line             |        | 8        | 1                    | 695 (Ship)        | 10000         |
| Total  |         |                                         |        |          | 11,66473             | 57500             |               |

not installed yet

①



# System

DATE

Notes

7 Engine cylinder head is an early MGB - almost identical to the 1622cc head. (1600mk2)

7 11-8 02 Compression Test: #1-130 lbs.

#2-131 lbs.

#3-131 lbs.

#4-127 lbs.

Before Rebuild of 4-05

See P.7

9 Original VAC advance settings 7.14.10 5441130

installed: 5.13.10 54411230

Refer to invoice 10433-1+10433-2 (British Sportscar Center) for work done on (date)

9 Dist. markings: Model DM2 Service # 40510D

BN238 659

(R/R = Remove, Replace)

↑ date

Moss P/N 331-120

" " 331-110

" " 280-498

" " 264-020

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" " 263-288

" " 262-190

# Source

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| Source               |                                    | System              |   | Quantity |       | Tax, <del>Parts</del> , Labor |  | Shipping <del>incl.</del> |      |
|----------------------|------------------------------------|---------------------|---|----------|-------|-------------------------------|--|---------------------------|------|
| Date                 | Item                               | not installed (yet) | ② | Quantity | Parts | Labor                         |  |                           |      |
| 1 2-5 03             | Cable stop, throttle + choke cable | 8                   | 2 | 390      |       |                               |  |                           |      |
| 1 " "                | Bracket, accelerator spring        | 8                   | 1 | 135      |       |                               |  |                           |      |
| 1 " "                | Door striker                       | 2                   | 2 | 1590     |       |                               |  |                           |      |
| 1 " "                | " " screws                         | 2                   | 4 | 220      |       |                               |  | 900                       | T, S |
| 1 2-28 "             | Mirror, convex, Left               | 1                   | 1 | 1495     |       |                               |  |                           |      |
| 1 " "                | Pad, fender mirror                 | 1                   | 1 | 95       |       |                               |  |                           |      |
| 1 " "                | oil seal, front hub                | 13                  | 2 | 590      |       |                               |  |                           |      |
| 1 " "                | Felt seal, bonnet-radiator         | 4                   | 1 | 895      |       |                               |  |                           |      |
| 1 2-17 "             | Muffler (                          | 14                  | 1 | 4695     |       |                               |  | Replaced 4-05             |      |
| 1 " "                | Rear tail pipe hanger              | 14                  | 1 | 995      |       |                               |  | See P. 7                  |      |
| 1 " "                | Clamp, exhaust, 1 3/4"             | 14                  | 1 | 140      |       |                               |  |                           |      |
| 4 6-16 03            | Rebuild Transmission               |                     |   |          |       |                               |  |                           |      |
| " "                  | Install new clutch Assy            |                     |   |          |       |                               |  |                           |      |
| " "                  | Replace tach + speedo w/new        |                     |   |          |       |                               |  |                           |      |
| " "                  | R/R STARTER + generator w/new      |                     |   |          |       |                               |  |                           |      |
| " "                  | Rebuild front suspension           |                     |   |          |       |                               |  | 4,695                     |      |
| " "                  | " brakes where needed              |                     |   |          |       |                               |  |                           |      |
| " "                  | " Steering rack                    |                     |   |          |       |                               |  |                           |      |
| " "                  | Restore original 2x6v batteries    |                     |   |          |       |                               |  |                           |      |
| " "                  | Install new main + rod bearings    |                     |   |          |       |                               |  |                           |      |
| " "                  | New Tach cable                     | 16                  | 1 | 1195     |       |                               |  |                           |      |
| " "                  | " Speedo "                         | 16                  | 1 | 1195     |       |                               |  |                           |      |
| " "                  | " A-Arm bush set                   | 12                  | 1 | 1095     |       |                               |  |                           |      |
| " "                  | " A-ARMS                           | 12                  | 4 | 5980     |       |                               |  | (← 4 x 14.95)             |      |
| " "                  | " Seal support                     | 12                  | 4 | 320      |       |                               |  |                           |      |
| " "                  | " Thrust washers                   | 12                  | 4 | 475      |       |                               |  |                           |      |
| " "                  | " Suspension seals                 | 12                  | 8 | 760      |       |                               |  |                           |      |
| " "                  | " Tie-rod end set                  | 11                  | 1 | 2495     |       |                               |  |                           |      |
| " "                  | " Rack dampening pad, L/H          | 11                  | 1 | 1295     |       |                               |  |                           |      |
| Total, previous page |                                    |                     |   | 1,166    | 473   |                               |  | 575.00                    |      |
| Total                |                                    |                     |   | 11,812   | 283   |                               |  | 5,279.00                  |      |

Rebuild of 4-05

41130

for work done on (date) →

40510 D

659

↑ date



Notes

Moss P/N

263-040

182-150

180-470

264-020

127-600

121-400

120-900

296-100

180-830

180-890

324-720

324-730

180-748

180-385

180-295

296-440

121-100

120-300

311-405

461-110

461-520

461-490

442-298

461-878

461-560

461-610

461-110

190-550

330-200

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| Source               |         |                                                      | System   |          |           |
|----------------------|---------|------------------------------------------------------|----------|----------|-----------|
| ↓                    | Date    | Items                                                | ↓        | Quantity | Labor     |
|                      |         |                                                      |          | Parts    |           |
| 4                    | 6-16-03 | Rack dampening pad                                   | 11       | 1        | 1295      |
| "                    | "       | Re-lined brake shoe set                              | 3        | 1        | 3995      |
| "                    | "       | Handbrake lever boot, pair                           | 3        | 1        | 2395      |
| "                    | "       | Steel distance tube                                  |          | 1        | 315       |
| "                    | "       | Rear Hub bearing                                     | 5        | 1        | 3995      |
| "                    | "       | " " O-ring                                           | 5        | 2        | 390       |
| "                    | "       | " " oil seal                                         | 5        | 2        | 590       |
| "                    | "       | " " paper gasket                                     | 5        | 2        | 190       |
| "                    | "       | " brake flex hose                                    | 3        | 1        | 1495      |
| "                    | "       | Front brake flex hose                                | 3        | 2        | 3990      |
| "                    | "       | Copper washers, brake hose                           | 3        | 4        | 280       |
| "                    | "       | " " " fitting                                        | 3        | 5        | 150       |
| "                    | "       | Front caliper rebuild kit                            | 3        | 2        | 7570      |
| "                    | "       | " " fluid channel seal                               | 3        | 2        | 1990      |
| "                    | "       | Brake pad retaining clips                            | 3        | 2        | 140       |
| "                    | "       | Gearbox gasket set                                   | 5        | 1        | 495       |
| "                    | "       | " rear oil seal                                      | 5        | 1        | 595       |
| "                    | "       | " front " "                                          | 5        | 1        | 315       |
| "                    | "       | Gearshift knob-locking nut                           | 5        | 1        | 90        |
| "                    | "       | Nylon bush, shift lever ball                         | 5        | 1        | 640       |
| "                    | "       | Brass synchro ring, 3 <sup>rd</sup> /4 <sup>th</sup> | 5        | 2        | 4190      |
| "                    | "       | " " " 2 <sup>nd</sup>                                | 5        | 1        | 1995      |
| "                    | "       | Needle roller set, input shaft                       | 5        | 1        | 995       |
| "                    | "       | Lay gear bearing set                                 | 5        | 1        | 4695      |
| "                    | "       | " shaft                                              | 5        | 1        | 2095      |
| "                    | "       | Layshaft thrustwasher, rear .157                     | 5        | 1        | 1070      |
| "                    | "       | Boot, clutch throw arm pivot                         | 5        | 1        | 395       |
| "                    | "       | Bolt, " " " "                                        | 5        | 1        | 725       |
| "                    | "       | Bushing, Pivot bolt                                  | 5        | 1        | 195       |
| Total, previous page |         |                                                      | 11,81283 |          | 5,279     |
| Total                |         |                                                      |          |          | Forward → |



Notes

Moss P/N (used)

Moss P/N 360-410

296-450

180-720

180-820

324-720

325-140

180-200

190-120

190-140

190-290

163-665

163-620

(non-moss) No P/N

372-050

376-060

121-500

296-340

296-370

(non Moss) 5L0503A

Source

Date

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| Source  | Date | Items                                                | System |   | Quantity | Parts  | Labor |
|---------|------|------------------------------------------------------|--------|---|----------|--------|-------|
|         |      |                                                      |        |   |          |        |       |
|         | 4    | 6-16-03                                              |        |   |          |        |       |
| "       | "    | " Rear gearbox output flange                         | 5      | 1 | 1500     | (used) |       |
| "       | "    | " Reverse shifter shaft + selector                   | 5      | 1 | 1500     | (used) |       |
| "       | "    | " 1 <sup>st</sup> /2 <sup>nd</sup> shifter shaft " " | 5      | 1 | 1500     | "      |       |
| "       | "    | " 3 <sup>rd</sup> /4 <sup>th</sup> " " " "           | 5      | 1 | 1500     | "      |       |
| "       | "    | " 1 <sup>st</sup> /2 <sup>nd</sup> shifter fork      | 5      | 1 | 1500     | "      |       |
| "       | "    | " 3 <sup>rd</sup> /4 <sup>th</sup> " "               | 5      | 1 | 1500     | "      |       |
| "       | "    | " Reverse shifter fork                               | 5      | 1 | 1000     | "      |       |
| "       | "    | " Reverse gear (461-660)                             | 5      | 1 | 1500     | "      |       |
| "       | "    | " Circlip (443-090)                                  | 5      | 1 | 300      | "      |       |
| "       | "    | " Heater control valve                               | 4      | 1 | 2795     |        |       |
| "       | "    | " " " gasket                                         | 4      | 1 | 90       |        |       |
| "       | "    | " Clutch slave cylinder                              | 5      | 1 | 5895     |        |       |
| "       | "    | " Hose " " "                                         | 5      | 1 | 1395     |        |       |
| "       | "    | " " " " washer                                       | 5      | 1 | 70       |        |       |
| "       | "    | " Clevis pin                                         | 5      | 1 | 85       |        |       |
| "       | "    | " Pushrod, clutch slave                              | 5      | 1 | 995      |        |       |
| 2-17-15 | "    | " Clutch pressure plate                              | 5      | 1 | 10495    |        |       |
| "       | "    | " " disc                                             | 5      | 1 | 6495     |        |       |
| "       | "    | " " throwout bearing                                 | 5      | 1 | 2195     |        |       |
| "       | "    | " Vacuum advance unit                                | 9      | 1 | 6500     |        |       |
| "       | "    | " " " pipe Assy                                      | 9      | 1 | 3495     |        |       |
| "       | "    | " breather fitting, air clnr., front                 | 7      | 1 | 100      |        |       |
| "       | "    | " Pipe, valve cover to air cleaner                   | 7      | 1 | 795      |        |       |
| "       | "    | " Flexible oil line, engine to firewall              | 7      | 1 | 1995     |        |       |
| "       | "    | " Timing cover oil seal                              | 7      | 1 | 195      |        |       |
| "       | "    | " " " gasket                                         | 7      | 1 | 250      |        |       |
| "       | "    | " Tappet valve cover gasket                          | 7      | 2 | 190      |        |       |
| "       | "    | " Starter brush set                                  | 6      | 1 | 750      |        |       |

Total, previous page

Total

Forward →



# Notes

Moss P/N 296-410

406 (non moss)

6-202-4N ( " " )

81-92204 ( " " )

4446 ( " " )

"Car Quest"

CQ F85348 ( " " )

Moss P/N 470-138

used

Moss P/N 281-900

" " 470-230

" " 470-270

" " 473-070

"Car Quest"

GAT7355

Moss P/N 473-210

Interstate 17 HF-50

ORK703

Moss P/N 425-100

425-800

425-550

460-155

329-210

Source

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| Source    |                                           |    | System   |       |       |
|-----------|-------------------------------------------|----|----------|-------|-------|
| DATE      | Items                                     |    | Quantity |       | Labor |
|           |                                           |    | Parts    |       |       |
| 4 6-16-03 | Manifold to head gasket                   | 14 | 1        | 295   |       |
| " " "     | Generator field coil set                  | 6  | 1        | 2995  |       |
| " " "     | " bearing                                 | 6  | 1        | 975   |       |
| " " "     | " brush                                   | 6  | 2        | 590   |       |
| " " "     | " bushing                                 | 6  | 1        | 195   |       |
| " " "     | oil filter                                | 7  | 1        | 695   |       |
| " " "     | Exhaust pipe hanger kit                   | 14 | 1        | 1395  |       |
| " " "     | Exhaust pipe, manifold to muffler         | 4  | 1        | 3000  |       |
| " " "     | Speed/tach cable grommets                 | 16 | 2        | 390   |       |
| " " "     | Exhaust flange gasket                     | 14 | 1        | 425   |       |
| " " "     | Radiator hose                             | 4  | 1        | 595   |       |
| " " "     | 1/2" heater hose, 2 ft.                   | 4  | 1        | 300   |       |
| " " "     | Cable end stop                            | 8  | 1        | 195   |       |
| " " "     | fan belt                                  | 4  | 1        | 1425  |       |
| " " "     | L/H battery bracket assy.                 | 6  | 1        | 6995  |       |
| " " "     | 6 volt batteries                          | 6  | 2        | 11990 |       |
| " " "     | Materials for battery inter-connect cable | 6  | 1        | 1000  |       |
| " " "     | J-bolt battery hold-downs                 | 6  | 2        | 1050  |       |
| " " "     | oil pump gear set                         | 7  | 1        | 3750  |       |
| " " "     | Main bearing set - .010                   | 7  | 1        | 3295  |       |
| " " "     | Rod " " "                                 | 7  | 1        | 2895  |       |
| " " "     | Thrust washer set                         | 7  | 1        | 695   |       |
| " " "     | Pressure relief valve (oil)               | 7  | 1        | 695   |       |
| " " "     | " " " spring                              | 7  | 1        | 125   |       |

Total, previous page  
TOTAL

1,284,922 5,279.00



## Notes

Bulkhead thru which column goes thru  
Contains up/down/sideways play in steering column  
" " " " " "

Too Short! AC Delco 15355 (Car Quest GAT 7355 also works)  
→ TOO SHORT! →

P/NQBA900 Quinton Hazell (QH) Automotive, Nuneaton, England  
Made in India!

DAYCO "TOP COG" #15370 (Length OK!) for 3 7/8" Pulley <sup>on non-Lucas Dynamo</sup>  
Replaces damaged wheel that came with car

Done at local machine shop  
To facilitate securing front wheel bearings in hubs; not  
quite a press fit as it was.

Right side outer bearing was removed + replaced using pressure  
(slide hammer) on inner race, possibly compromising integrity.

\* Car Quest OUTLETS: 55 Vivian Way, S. R. (Southern Auto Supply)  
S+N Auto Parts, 64 Bolinas Rd., Fairfax  
Arts Parts, 86-A Hamilton Dr., Novato

Source



DATE

|              |                |              |               |
|--------------|----------------|--------------|---------------|
| 1            | 7-21           | 03           | Se            |
| 1            | "              | "            | Fe            |
| 1            | "              | "            | "             |
| 5            | 8-14           | "            | Co            |
| <del>1</del> | <del>9-2</del> | <del>"</del> | <del>El</del> |
|              | 9-2            | "            | El            |
| 7            | 9-2            | "            | Fa            |
| 6            | 9-6            | "            | Har           |
| 1            | 9-12           | "            | Fa            |
| 1            | 9-12           | "            | Go            |
| 1            | 9-12           | "            | "             |
| 1            | 9-12           | "            | Fa            |
| 7            | 9-19           | "            | Fa            |
| 8            | 10-5           | "            | Us            |
| 7            | 10-14          | "            | Ne            |
| ←            | 10-25          | "            | Se            |
| ←            | 10-26          | "            | Lo            |
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| 3            | 12-4           | 03           | Se            |
| 1            | 2-20           | 04           | Du            |



|                      | Source         |  | Item                                            | System |       | Quantity | Parts (EA) | Labor             |
|----------------------|----------------|--|-------------------------------------------------|--------|-------|----------|------------|-------------------|
|                      | DATE           |  |                                                 |        |       |          |            |                   |
| Steering column      | 1 7-21 03      |  | Seal, steering column                           | 11     | 2     | 295      |            |                   |
|                      | 1 " "          |  | Felt bush, " " , upper                          | 11     | 1     | 795      |            |                   |
|                      | 1 " "          |  | " " " " , lower                                 | 11     | 1     | 895      |            |                   |
|                      | 5 8-14         |  | Carpet installation                             | 10     | /     |          |            | 650.00            |
|                      | <del>9-2</del> |  | <del>Rebuilding front &amp; rear brakes</del>   |        |       |          |            | <del>418.50</del> |
|                      | 9-2            |  | Eliminate exhaust leaks and exhaust pipe rattle | 14     |       |          |            | 30.00             |
| 5 also works)        | 7 9-2          |  | Fan belt, spare                                 | 7      | 1     | 906      |            |                   |
| ton, England         | 6 9-6          |  | Hardware, seat back to seat frame               | 10     | 1 set | 400      |            |                   |
|                      | 1 9-12         |  | Fan belts (Moss 460-990)                        | 4,6    | 2     | 1062     |            |                   |
|                      | 1 9-12         |  | Generator (" 140-200)                           | 6      | 1     | 7785     |            |                   |
|                      | 1 9-12         |  | " Pulley (Moss 473-130)                         | 6      | 1     | 6995     |            |                   |
| on non-Lucas         | 1 9-12         |  | Fastener, battery panel                         | 2      | 1     | 155      |            |                   |
| " Pulley ← Dynamo    | 7 9-19         |  | Fan belt                                        | 6      | 1     | 1400     |            |                   |
|                      | 10-5           |  | Used spare wheel ← No Yellow                    | 13     | 1     | 7500     |            |                   |
|                      | 7 10-14        |  | New tire for spare                              | 13     | 1     | 7436     |            |                   |
|                      | ← 10-25        |  | Seperate rotors from hubs.                      | 3      | 2     |          |            | 4600              |
| hubs; not            | ← 10-26        |  | Loctite 640 for wheel bearings                  | 1      | 1     | 3679     |            |                   |
|                      | 1 10-29        |  | Hub bolt                                        | 12     | 2     | 590      |            |                   |
|                      | " "            |  | Bolt, brake caliper mount                       | 3      | 2     | 2190     |            |                   |
|                      | " "            |  | Bearing, inner hub                              | 12     | 2     | 3390     |            |                   |
| using pressure       | " "            |  | Bearing, outer hub                              | 12     | 2     | 2590     |            |                   |
| missing integrity.   | " "            |  | Oil seal, front hub                             | 12     | 2     | 590      |            |                   |
|                      | " "            |  | Disc, front brake (rotor)                       | 3      | 2     | 13990    |            |                   |
|                      | " "            |  | Retainer pin, front brake pads                  | 3      | 2     | 570      |            |                   |
|                      | 3 12-4 03      |  | Series MGA 1100 Service Parts List              | 1      | 1     | 40-      |            |                   |
|                      | 1 2-20 04      |  | Duravent CAR cover                              | 1      | 1     | 120-     |            |                   |
| Sub-Total            |                |  |                                                 |        |       | 1,04480  |            | 726.00            |
| Total, previous page |                |  |                                                 |        |       | 12,84922 |            | 5279.00           |
| Total                |                |  |                                                 |        |       | 1389402  |            | 6005.00           |

Southern Auto Supply)  
 es R.L., Fairfax  
 Dr., NOVA



# Notes

A complete breakdown of the work done, including the complete parts list can be found on invoice number 10649 from British Sportscar Center, where the work was done, located at 2997 Alhambra Dr, Cameron Park, Ca. Invoice filed separately. Sierra Speed; \$2,350<sup>00</sup>; included in Parts figure.

Intermediate glasspak removed + modified so it can be re-installed if desired.

Used under "Lift the Dot" Tonneau fasteners

# More securely anchored than original.

High performance header left intact

Have extra

Fitting problems; holes (drillings) not lined up w/ Frame holes  
Top "pegs" at wrong angle

Not installed. still have

Source

DATE

4 4-7 05 Co

(Delivery DATE) have  
light

+ p

for

per

Als

all

4-15 05 EV

1 4-19 05 M

1 " " ~~for~~

1 " " Ton

1 " " Wa

1 " " Sp

1 " " Ch

1 " " Ch

6-10 05 Resto

1 6-15 05 Bra

1 " " Brak

1 " " Wa

1 7-20 05 Gla

1 " " Pec

1 " " Bra

1 " " Sc

1 " " Gra

1 " " Ta

6 " " Up

1 " " Gro

1 " " Pec



|                                                                       | Source  |                                                                                                                                                                                                                                                                                                    | System   |          |          |
|-----------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|
|                                                                       | DATE    | Item                                                                                                                                                                                                                                                                                               | Quantity | Parts    | Labor    |
| including the invoice<br>inter, where<br>Alhambra Dr,<br>tely.<br>re. | 4-7-05  | Complete engine rebuild, including<br>(Delivery DATE) having engine balanced, flywheel<br>lightened + balanced, head ported<br>+ polished, mild street cam, per-<br>formance exhaust header +<br>performance exhaust system.<br>Also installation of Sierra type 9<br>all synchro 5 speed gearbox. |          | 4,124.91 | 5,035.00 |
| ried so it                                                            | 4-15-05 | Exhaust work                                                                                                                                                                                                                                                                                       | 14/      |          | 60.00    |
|                                                                       | 4-19-05 | Muffler, Stock                                                                                                                                                                                                                                                                                     | 14/      | 50.95    |          |
|                                                                       | " "     | <del>Exhaust</del> Exhaust pipe hanger                                                                                                                                                                                                                                                             | 14/10    | 6.95     |          |
|                                                                       | " "     | Tonneau "Lift the DOR" fasteners                                                                                                                                                                                                                                                                   | 17       | 6.90     |          |
|                                                                       | " "     | Washers                                                                                                                                                                                                                                                                                            | 17       | 1.45     |          |
|                                                                       | " "     | Spin-on oil filter adaptor kit                                                                                                                                                                                                                                                                     | 7/1      | 32.95    |          |
|                                                                       | " "     | Choke cable trunnion                                                                                                                                                                                                                                                                               | 7/1      | 13.95    |          |
|                                                                       | " "     | Choke cable                                                                                                                                                                                                                                                                                        | 7/1      | 30.95    |          |
|                                                                       | 6-10-05 | Restore exhaust to stock                                                                                                                                                                                                                                                                           | 14/      |          | 75.00    |
|                                                                       | 6-15-05 | Brake Pad retainer Springs                                                                                                                                                                                                                                                                         | 3/2      | 8.00     |          |
|                                                                       | " "     | Brake pad retainer spring pins                                                                                                                                                                                                                                                                     | 3/2      | 6.30     |          |
|                                                                       | " "     | Washers, oil drain                                                                                                                                                                                                                                                                                 | 7/6      | 2.40     |          |
|                                                                       | 7-20-05 | Glazing rubber for windshield                                                                                                                                                                                                                                                                      | 2/1      | 19.95    |          |
|                                                                       | " "     | Packing strip " "                                                                                                                                                                                                                                                                                  | 2/2      | 2.70     |          |
|                                                                       | " "     | Bracket, bottom corner, "                                                                                                                                                                                                                                                                          | 2/2      | 15.80    |          |
|                                                                       | " "     | Screw Set for windscreen Assy                                                                                                                                                                                                                                                                      | 2/1      | 37.95    |          |
|                                                                       | " "     | Grab handle packing                                                                                                                                                                                                                                                                                | 2/1      | 2.10     |          |
| up w/Frame hole                                                       | " "     | Tapping bars for windscreen Assy                                                                                                                                                                                                                                                                   | 2/2      | 17.10    |          |
|                                                                       | " "     | Upper R/H + L/H windscreen brackets                                                                                                                                                                                                                                                                | 2/2      | 27.00    |          |
|                                                                       | " "     | Grommet, windscreen Post                                                                                                                                                                                                                                                                           | 2/2      | 7.30     |          |
|                                                                       | " "     | Packing, " "                                                                                                                                                                                                                                                                                       | 2/2      | 11.10    |          |
|                                                                       |         | Total, previous page                                                                                                                                                                                                                                                                               |          | 1,389.40 | 600.50   |
|                                                                       |         | TOTAL                                                                                                                                                                                                                                                                                              |          | 1,389.40 | 600.50   |

18,318.33  
11,115.00



R-local rad  
L=Lawrie (B)

# Reference Notes

Fitting problems; but worked out ok

Interior cleaned - outside rust treatment + painting by me  
One 9 foot rubber strip @ 4 1/2 ft for each strap.

Electronic pump; no points - no maintenance except  
cleaning filter occasionally.  
Sealing ring, cork

Located top + bottom of leaf springs at the axle. (4 ea.)

Located between pump + mounting plate + chassis.

Everflex brand, w/ zippered rear window, made in U.K.

| Source |         | Date |     |
|--------|---------|------|-----|
|        |         |      |     |
| L      | 7       | 05   | Ne  |
| "      | "       | "    | Cen |
| "      | "       | "    | cl  |
| "      | "       | "    | He  |
| "      | "       | "    |     |
| R      | 8       | "    | Ca  |
| L      | 8       | "    | Ca  |
| "      | "       | "    | "   |
| "      | "       | "    | "   |
| "      | "       | "    | Fue |
| "      | "       | "    | En  |
| "      | "       | "    | Gas |
| L      | 9       | "    | He  |
| "      | "       | "    | Sh  |
| "      | "       | "    | Co  |
| "      | "       | "    | Ru  |
| "      | "       | "    | Ar  |
| "      | "       | "    | Fre |
| "      | "       | "    | Ru  |
| B      | "       | "    | T   |
| "      | 12      | "    | Ne  |
| "      | 12      | "    | Tu  |
| "      | 12      | "    | Ne  |
| M      | Aug. 06 | W    |     |
| "      | "       | "    | B   |
| "      | "       | "    | St  |
| "      | "       | "    |     |
| "      | "       | "    | Ra  |
| "      | "       | "    |     |



R - local radiator shop "Radiator Works"

L = Lawrie (British Sportscar Center) LBC: Little British Car Co. Ltd.

(8)

|                      | Source    |   | Item                             | System   |                     | Labor            |
|----------------------|-----------|---|----------------------------------|----------|---------------------|------------------|
|                      | Date      |   |                                  | Quantity | Parts               |                  |
|                      | 7 05      |   | New original type steering wheel | 11 1     | 19295               |                  |
|                      | " "       |   | Centerpiece, steering wheel      | 11 1     | 2795                |                  |
|                      | " "       |   | clips for centerpiece            | 11 4     | 180                 |                  |
|                      | " "       |   | Header rail for top frame        | 17 1     | 5295                |                  |
|                      | " "       |   | " " sockets                      | 17 2     | 1250                |                  |
| → painting by me     | R 8       | " | Gas tank cleaned                 | 8 1      |                     | 95 <sup>00</sup> |
| ack strap.           | R 8       | " | Gas tank strap rubber packing    | 18 1     | 821                 |                  |
|                      | " "       | " | " " filler neck grommet          | 15 1     | 353                 |                  |
|                      | " "       | " | " filler pipe seal               | 15 1     | 183                 |                  |
| intenance except     | " "       | " | Fuel pump, electronic            | 8 1      | 15721               |                  |
|                      | " "       | " | Engine oil filler cap            | 7 1      | 1186                |                  |
|                      | " "       | " | Gas tank filler extension seal   | 18 1     | 200                 |                  |
|                      | L 9       | " | <del>Set of</del> leaf springs   | 12 2     | 17790               |                  |
|                      | " "       | " | Shock absorber link              | 12 2     | 5790                |                  |
|                      | " "       | " | <del>Centering bolts for</del>   |          |                     |                  |
|                      | " "       | " | Rubber bush set, leaf springs    | 12 1     | 945                 |                  |
| the ogle. (4 ea.)    | " "       | " | Axle pad set, rubber             | 12 1     | 750                 |                  |
|                      | " "       | " | Front bolt for leaf springs      | 12 2     | 620                 |                  |
| -chassis.            | " "       | " | Rubber pads for fuel pump        | 18 2     | 280                 |                  |
|                      | L 12      | " | Tonneau Cover, canvas type       | 17 1     | 23626               |                  |
| made in U.K.         | " 12      | " | New Top                          | 17 1     | 30258               |                  |
|                      | 12        | " | Turned rear brake drums          | 3 2      |                     | 24-              |
|                      | 12        | " | New door top rail, L/H           | 2 1      | 27-                 |                  |
|                      | M Aug. 06 |   | Wind Wings                       | 1 2      | 6500                |                  |
|                      | 1         | " | Bleeder screws, brakes           | 3 2      | 760                 |                  |
|                      | 1         | " | Steering rack seals (bellows)    | 11 2     | 1590                |                  |
|                      | 1         | " | " " seal clamps, large           | 11 2     | 350                 |                  |
|                      | 1         | " | Radiator drain tap               | 4 1      | 1795                |                  |
|                      | 1         | " | " " fiber washer                 | 4 1      | 55                  |                  |
| Total, previous page |           |   |                                  | 1831833  | 14115 <sup>00</sup> |                  |
| Total                |           |   |                                  | 1973171  | 11234 <sup>00</sup> |                  |



# Notes

Source

DATE

Done at Mira Vista Tire & Brake, Richmond

1 Aug 06 Grea

mv " " Fro

Includes: Bushings for upper & lower (all) links.

1 Jan 07 Maj

Bolt, washers, nuts for all links.

1 " " Oil s

All rubber seals, seal supports, thrust washers & Steel Tubes

1 " " Oute

MGB V/8 rubber bushings for inner A-arms.

1 " " Thick

Kept as spare; old one re-used.

1 " " Seco

1 " " Slot

2 Bushings destroyed attempting to press into a-arms, necessitating acquisition of a new ~~set~~ set.

1 " " MGB

1 " " Swi

1 " " link

1 " " lowe

1 used; other 2 kept as spares.

1 " " Seal

Not original design as claimed; used it anyway.

1 " " Ste

1 " " Bras

1 " " "

Metal bushings; had to be pressed in.

T " " Insta

Bushings pressed in (MGB V/8 bushings)

T " " Insta

Done at Mira Vista Tire & Brake, Richmond

mv " " Fron

1 " " Rebo

W June 08 Rebo

1 " " 4"x3

L Sept " Bala

Moss P/N 263-100 Brand new; not rebuilt. Requires NO scheduled lubrication or maintenance.

1 Nov " New

1 Nov " Fro

L " " Fro

Original lost during a drive

1 " " New

1 " " Right



T-Tito's machine Shop, Berkeley.  
 World Wide Auto Parts

(9)

|                       | Source | DATE      | Item                                             | System   |           | Labor     |
|-----------------------|--------|-----------|--------------------------------------------------|----------|-----------|-----------|
|                       |        |           |                                                  | Quantity | Parts     |           |
|                       |        | Aug 06    | Grease gun                                       | 1        | 1         | 38.95     |
|                       |        | " "       | Front end alignment                              | 12       | 1         | 35.95     |
|                       |        | Jan 07    | Major suspension kit (front)                     | 12       | 1         | 134.01    |
|                       |        | " "       | Oil seal spacer, left front hub                  | 12       | 1         | 23.00     |
| washers + Steel Tubes |        | " "       | Outer hub bearing, left front                    | 12       | 1         | 15.00     |
| A-arms                |        | " "       | Thick washers for A-arm pivots                   | 12       | 4         | 3.80      |
|                       |        | " "       | Secondary rack damper washer                     | 11       | 1         | 3.00      |
|                       |        | " "       | Slotted nuts for a-arm pivots                    | 12       | 4         | 5.20      |
| arms, necessitating   |        | " "       | MGB V/8 a-arm bushings                           | 12       | 4         | 14.00     |
|                       |        | " "       | Swivel pin (kingpin) for left front              | 12       | 1         | 115.00    |
|                       |        | " "       | link, suspension, bottom left                    | 12       | 1         | 190.00    |
|                       |        | " "       | lower A-arm pivots, both sides                   | 12       | 2         | 180.00    |
|                       |        | " "       | Seal, felt, steering pinion shaft                | 11       | 3         | 8.25      |
|                       |        | " "       | Steering column U-joint                          | 11       | 1         | 27.00     |
|                       |        | " "       | Brass pad for primary rack damp                  | 11       | 1         | 20.00     |
|                       |        | " "       | " " " secondary rack damper                      | 11       | 1         | 5.00      |
|                       |        | T "       | Installation, 4 link bushings                    | 12       | 4         | 40.00     |
|                       |        | T "       | Installation, 4 MGB V/8 suspension bushings      | 12       | 4         | 80.00     |
|                       |        | mv "      | Front end alignment                              | 12       | 1         | 36.00     |
|                       |        | " "       | Rebound buffers                                  | 12       | 2         | 24.00     |
|                       |        | W June 08 | Rebuilt front shocks                             | 12       | 2         | 180.00    |
|                       |        | " "       | 4"x31" Air Hose, Heater inlet to front of engine | 19       | 1         | 26.00     |
|                       |        | L Sept "  | Balance 4 wheel/tires on the ground              | 13       | 4         | 40.00     |
| NO scheduled          |        | " Nov "   | New Rack & Pinion Assembly                       | 11       | 1         | 220.00    |
|                       |        | " Nov "   | tie-rod end set (ball-joints)                    | 11       | 1         | 30.00     |
|                       |        | " "       | Front-end Alignment                              | 11       | 1         | 36.00     |
|                       |        | " "       | New replacement hubcap                           | 13       | 1         | 24.75     |
|                       |        | " "       | Right-front Bumper carriage bolt + nut           | 2        | 1         | 2.40      |
| TOTAL, this page      |        |           |                                                  |          | 1289.36   | 267.95    |
| Total, previous page  |        |           |                                                  |          | 19,731.71 | 1,234.00  |
| Total                 |        |           |                                                  |          | 21,021.07 | 11,501.95 |



## Notes

Source  
Date

This is a modified extension to allow filling the tank with the contemporary large bulky filling station nozzles.

Original 165R15's from OEM wheels

Sumitomo HTR 200 tires

15"x5.5"

Calibrated to new 5-speed Sierra Transmission

Fuel gauge face replaced, new shunt installed

Stockton Wheel did the work

NEKEN 165/80R15 TIRES on TRUED OEM wheels

TIRES: \$50 ea., Balance 10<sup>00</sup> ea. DISPOSE OLD TIRES + tax etc.

Bad item; inadequate fiberglass - Too loud - replaced on Nov. '10

Used to determine if water is in fuel Tank

Disperses/emulsifies water in fuel Tank

Extends time it Takes for gas to degrade (30-45 days to 60 days)

Springs are powder coated. Front raised 1 1/4"

Original bent; P.O. ran over something. Replacement is fiberglass.

Moss P/N 470-810

Done by Advanced Distributors, Shakopee MN, Recurved specifically for the M6 engine + its cam, headwork, exhaust, etc. Big difference!

| Source | Date     |       |
|--------|----------|-------|
| ← 1    | 12/15 08 | Gas   |
| 1      | " "      | Gas   |
| ← 7    | 12/21 "  | Dis   |
| ← TR   | 12/22 "  | Fow   |
| ← 1    | 12/22 "  | Whe   |
| 1      | 12/22 "  | hug   |
| ← 8    | 1/12 09  | Spee  |
| 8      | " "      | Tech  |
| 8      | " "      | Fuel  |
| 1      | 4/15 "   | Bra   |
| 1      | 4/16 "   | Acc   |
| ← 8    | 9/1 "    | Steel |
| 1      | 9/3 "    | Whe   |
| 1      | 9/3 "    | Fla   |
| ← 7    | 9/11 "   | Tire  |
| 1      | 11/06 "  | New   |
| ← 1    | 12/09 "  | "     |
| 1      | 1/10 10  | Wat   |
| 1      | " "      | E-2   |
| 1      | " "      | Ext   |
| 3      | 7/1 10   | New   |
| 1      | 7/20 "   | Fron  |
| 1      | " "      | "     |
| 1      | " "      | Gro   |
| 1      | " "      | Bun   |
| 1      | 8-6 "    | Bun   |
| 8      | 9-20 "   | Dist  |
| 1      | 9-21 "   | Dip   |



# TR-TIRE RACK

(10)

|                                        | Source | Date      | Item                                       | System  |                     | Shipping, tax, or Labor |
|----------------------------------------|--------|-----------|--------------------------------------------|---------|---------------------|-------------------------|
|                                        |        |           |                                            | ↓       | Quantity<br>↓ Parts |                         |
| tank with<br>on nozzles                | ←      | 12/15/08  | Gas tank filler neck extension             | 8       | 100.00              |                         |
|                                        |        | 1 " "     | Gas cap, polished stainless                | 8       | 11.00               |                         |
|                                        | ←      | 7 12/21 " | Dismount tires from wheels                 | 13 4    |                     | 40 -                    |
|                                        | ←      | 12/26 "   | Four 195/65HR15 Sumitomo Tires             | 13 4    | 279.04              |                         |
|                                        | ←      | 1 12/22 " | Wheels, Minilite reproductions             | 13 4    | 799.80              | 62.86                   |
|                                        |        | 1 12/22 " | lugnuts for Minilite wheels                | 13 16   | 67.20               |                         |
|                                        | ←      | 8 1/12 09 | Speedometer calibration                    | 16 1    | 110.00              | 17.50                   |
|                                        |        | 8 " "     | Tachometer redline decal re-furbish        | 16 1    |                     |                         |
|                                        |        | 8 " "     | Fuel gauge re-furbish                      | 16 1    |                     |                         |
|                                        |        | 1 4/15 "  | Brake pad retaining spring                 | 3 1     | 3.95                | 7.75                    |
|                                        |        | 1 4/15 "  | Accelerator return spring bracket          | 8 1     | 2.75                | 1.00                    |
|                                        | ←      | 8 9/1 "   | Steel wheels straightened & blasted        | 13 4    |                     | 348.50                  |
|                                        |        | 1 9/3 "   | Wheel paint                                | 13 2    | 35.00               |                         |
|                                        |        | 1 9/3 "   | Flasher unit                               | 6 1     | 17.45               |                         |
|                                        | ←      | 7 9/11 "  | Tires mounted & balanced on OEM wheels     | 13 4    | 240.00              | 34.00                   |
|                                        |        | 1 11/06 " | New muffler-stock                          | 14 1    | 59.95               | 13.45                   |
| tires + tax etc<br>Nov. '10            | ←      | 1 12/09 " | " inner + outer wheel bearings - Rt. front | 12 1    | 44.98               |                         |
|                                        |        | 1 1/10 10 | Water Probe indicator                      | 8 1     | 8.95                |                         |
|                                        |        | 1 " "     | E-Zorb fuel treatment                      | 8 1     | 21.95               |                         |
| 5 days to 60 days)                     |        | 1 " "     | Extend fuel treatment                      | 8 2     | 14.90               |                         |
|                                        |        | 3 7/1 10  | New OEM spec front coil springs            | 12 2    | 113.30              | 12.80                   |
|                                        |        | 1 7/20 "  | Front Valence                              | 2 1     | 89.95               |                         |
| fiberglass                             | ←      | 1 " "     | " " attaching hardware                     | 2 1 set | 13.90               | 27.82                   |
|                                        |        | 1 " "     | Grommet, bumper mount (4 ee)               | 2 1 set | 5.75                |                         |
|                                        |        | 1 " "     | Bumper over-rider packing                  | 2 1 set | 7.20                | 10.02                   |
|                                        |        | 1 8-6 "   | Bumper support bracket, R/H                | 18 1    | 47.60               | 9.00                    |
| curved specifically<br>Big difference! |        | 8 9-20 "  | Distributor Rebuilt + recurved             | 9 1     | 139.00              | 10.00                   |
|                                        |        | 1 9-21 "  | Dipstick boot                              | 7 1     | 1.95                |                         |
| Total, this page                       |        |           |                                            |         | 2235.57             | 594.70                  |
| Final Total, previous page             |        |           |                                            |         | 21021.07            | 11501.95                |
| Final Total                            |        |           |                                            |         | 23256.64            | 12096.65                |



| Notes                                             |  |
|---------------------------------------------------|--|
| NGK BP6ES                                         |  |
| Old one had a crack running through carb. opening |  |
| Maintains & de-sulphates batteries                |  |
| Stainless Steel w/teflon inner                    |  |
| Fram G-1                                          |  |
| Spares                                            |  |

| Source | Date    |     |
|--------|---------|-----|
|        | 9-21 10 | Fa  |
|        | " "     | Ma  |
|        | " "     | B   |
| 89-23  | 10      | Sp  |
| F Nov. | 10      | Fa  |
| 1 Jan. | 11      | Ca  |
| 1 "    | "       | Bra |
| R "    | "       | b   |
| W "    | "       | Ba  |
| 1 "    | "       | Ma  |
| 1 "    | "       | Va  |
| 1 "    | "       | Ca  |
| 1 "    | "       | Ca  |
| W "    | "       | Pe  |
| 1 "    | "       | Ir  |
| 1 "    | "       | Re  |
| 1 "    | "       |     |
| 1 "    | "       | Go  |
| W "    | "       | S   |
| 1 "    | "       | G   |
| 1 "    | "       | Re  |
| 1 Feb  | "       | W   |
| 1 "    | "       | Go  |
| 8 July | 13      | C   |
| 8 "    | "       | ±   |
| 1 "    | "       | E   |
| 1 "    | "       | P   |
| 1 "    | "       | C   |
|        |         | T   |
|        |         | T   |
|        |         | T   |



Rob's Automotive, El Cerrito - R 1-moss B-

F-Falcon Exhaust; England

W-Web purchase

L-local Auto Parts

(11)

System

|              | Source | Date      | Item                                    | Quantity |         | Shipping, tax or Labor |
|--------------|--------|-----------|-----------------------------------------|----------|---------|------------------------|
|              |        |           |                                         | ↓ Parts  |         |                        |
|              |        | 9-21 10   | Fan Belt                                | 7 1      | 545     |                        |
|              |        | " "       | Manual, Lucas Fault Diagnosis           | 6/9 1    | 695     |                        |
|              |        | " "       | Battery filler                          | 6 1      | 1295    |                        |
|              |        | 89-23 10  | Spark Plugs                             | 9 4      | 1600    |                        |
|              |        | F Nov. 10 | Falcon Stainless steel muffler          | 14 1     | 14561   | 1885                   |
| arb. opening |        | 1 Jan. 11 | Carb Heat Shield                        | 8 1      | 6600    |                        |
|              |        | " "       | Brass info plate (on intake manifold)   | 15 1     | 1000    | 2200                   |
|              |        | R " "     | 6 volt batteries                        | 6 2      | 18800   | 1800                   |
|              |        | W " "     | Battery Minder charger                  | 6 1      | 3900    | 800                    |
|              |        | " "       | Manifold gasket                         | 7 1      | 500     |                        |
|              |        | " "       | Valve cover gasket                      | 7 2      | 500     |                        |
|              |        | " "       | Carb/fitter, carb/manifold gaskets      | 7 6      | 700     |                        |
|              |        | " "       | Carb to carb fuel line                  | 8 1      | 2500    | 1800                   |
|              |        | W " "     | Pertronix #40511 Ignition coil          | 9 1      | 3500    |                        |
|              |        | L " "     | In line gas filter                      | 8 1      | 400     |                        |
|              |        | " "       | Rear (short) manifold stud              | 7 1      | 100     |                        |
|              |        | " "       | " " " " nut                             | 7 1      | 60      |                        |
|              |        | " "       | Grose type float valves                 | 8 2      | 2000    | 1300                   |
|              |        | W " "     | S.U. Rebuild, both                      | 8 2      | 35000   |                        |
|              |        | " "       | Grommet, float bowl                     | 8 4      | 780     |                        |
|              |        | " "       | Rod, throttle shaft coupling            | 8 1      | 575     | 1000                   |
|              |        | 1 Feb " " | Washer, banjo bolt to carb (float bowl) | 8 2      | 280     | 900                    |
|              |        | " "       | Grommet, float bowl                     | 8 4      | 780     |                        |
|              |        | 8 July 13 | Clutch slave cylinder                   | 20 1     | 4555    | 1200                   |
|              |        | " "       | L.D. Plate (on firewall shelf)          | 15 1     | 1101    |                        |
|              |        | " "       | Bushing, brake + clutch pedals          | 15 2     | 590     |                        |
|              |        | " "       | Patent plate                            | 15 1     | 600     |                        |
|              |        | " "       | Firewall grommet set                    | 15 1     | 4365    | 1400                   |
|              |        |           | Total, this page                        |          | 107891  | 14285                  |
|              |        |           | Total, previous page                    |          | 2325664 | 1209665                |
|              |        |           | Total                                   |          | 2433555 | 1223950                |







Moss  
Little Brit. car co.

A - Alta Vista Tire + Brake

O - On the Road Again (don't ever use these people again)

(12)

| Source                 |        | Items                                    | System   |       | Shipping, tax or Labor |
|------------------------|--------|------------------------------------------|----------|-------|------------------------|
| Date                   |        |                                          | Quantity | Parts |                        |
| July '13               |        | Blanking plate, rubber, pedals           | 15       | 1     | 245                    |
| "                      |        | " Hose, Clutch slave cyl.                | 15       | 1     | 1600                   |
| 183-088                |        | " Pipe set, brake                        | 3        |       | 13000                  |
| "                      |        | " Pipe, Clutch                           | 20       | 1     | 2860                   |
| "                      |        | " Clevis pin, Clutch slave               | 20       |       | 100                    |
| "                      |        | " Brake & clutch pedal pads, rubber      | 15       | 2     | 480                    |
| 180-040                |        | " " " push rods                          | 3        | 2     | 2790                   |
| 180-315                |        | " Forks, (m/c push rods                  | 3        | 2     | 2150                   |
| "                      |        | " Clevis pins for m/c Forks              | 3        | 2     | 250                    |
| "                      |        | " Hose, front brakes                     | 3        | 2     | 3590                   |
| "                      |        | " Hose, rear brakes                      | 3        | 1     | 1890                   |
| "                      |        | " Wheel cylinders, rear                  | 3        | 2     | 7000                   |
| "                      |        | " " " boots & cups                       | 3        | 2     | 2600                   |
| "                      |        | " Master Cylinder, (APC aparo)           | 3        | 1     | 13500                  |
| "                      |        | " Pistons, brake calipers                | 3        | 4     | 5180                   |
| "                      |        | " Brake caliper seals, dust covers       | 3        | /     | 1945                   |
| "                      |        | " Horn, low note                         | 15       | 1     | 5500                   |
| "                      |        | " Cover, Domed, master cylinder          | 3        | 1     | 5000                   |
| "                      |        | " Boots (seals) for steering rack        | 11       | 2     | 1400                   |
| "                      |        | " Front end alignment                    | 11       | /     | 3600                   |
| Brake backed off       | 2-4    | 14 Caliper piston pressure relieved      | 3        | /     |                        |
| " " " (opposite)       | 0      | " " Spark Plugs                          | 9        | 4     | 1430                   |
| " " " (cold?)          | 0      | " " Rear Axle check straps (mcb)         | 12       | 2     | 1705                   |
| " " " (wheel base)     | 0      | " " Carbs adjusted, Timing, Valve adjust | 15       | /     |                        |
| " " " (per work done.) | 0      | " " Rear Brake adjust                    | 3        | /     |                        |
| " " " (e.)             | 0      | " " wheel-Base adjust                    | 12       | /     | 1,587.95               |
| " " " (Repairs they)   | m 2-10 | " " Rear axle check straps (mca)         | 12       | 2     | 1666                   |
| Totals this page       |        |                                          |          |       | 79061                  |
| Totals previous page   |        |                                          |          |       | 24,335.55              |
| Totals                 |        |                                          |          |       | 25,142.22              |
| Grand Total: 38,976    |        |                                          |          |       | 12,239.50              |
|                        |        |                                          |          |       | 13,833.80              |



RF + Both rear tires have sideways wobble which may  
Account for vibration at speed.  
Fits generator pulley:  $3\frac{5}{16}$ " diameter  
other pulleys on hand:  $2\frac{1}{8}$ ,  $3\frac{5}{8}$ ,  $3\frac{7}{8}$   
Original factory pulley thru 1/57:  $3\frac{5}{8}$   
Pulley fitted 2/57 on: 3"

This is an "original" type caliper (right side) with the  
original design piston pins incorporated within the  
unit, using original design MGB pistons.  
(The left caliper ~~is~~ has the piston pins removed  
and has MGB pistons installed)

Year 2022 Starting with Heater Valve

| Source | Date    |        |
|--------|---------|--------|
|        | 2-19-15 | Cl     |
|        | " "     | Clu    |
|        | " "     | Cl     |
|        | " "     | Cl     |
|        | 3-2     | " Far  |
|        | 3-10    | " Tire |
|        | Feb. 16 | Rep    |
|        | " 16    | 2 (1   |
|        | " 16    | 1 (1   |
|        | " "     | 2      |
|        | " "     | Press  |
|        | MAR. 16 | Bra    |
|        | " "     | Cop    |
|        | 2-6 14  | NGH    |
|        | OCT 17  | Engi   |
|        | Dec. 17 | Inst   |
|        | Feb 18  | Con    |
|        | Jan 15  | Pan    |
|        | " "     | Bu     |
|        | Apr. 22 | He     |
|        | July 22 | St     |
|        | " 23    | Boo    |
|        | Feb 25  | Bat    |
|        | " "     | Ta     |
|        | " "     | Bar    |
|        |         | Tota   |
|        |         | Tota   |
|        |         | Tot    |
|        |         | Gra    |



M-Moss O-O'Reilly's D-Diamond Tire, S.R. M/A-machine Shop  
L-Local

(13)

| Source | Date    | Items                                | System   |         | Shipping, Tax |
|--------|---------|--------------------------------------|----------|---------|---------------|
|        |         |                                      | Quantity | Parts   |               |
|        | 2-19-15 | Clutch disc                          | 20       | 1 58 75 | 320.00        |
|        | " "     | Clutch alignment tool                | 20       | 1 36 5  |               |
|        | " "     | Clutch pressure plate                | 20       | 1 62 95 |               |
|        | " "     | Clutch release bearing               | 20       | 1 14 65 |               |
|        | 3-2     | " Fan Belt (Gates 7360; 10 x 929 mm) | 6        | 1       | 21 89         |
|        | 3-10    | " Tires on ground balanced           | 13       | 4 Free  |               |
|        | Feb. 16 | Replacement used front hubs          | 12       | 2 24 00 | 30 00         |
|        | " 16    | 2 (large) inner bearing, front hubs  | 12       | 2 32 00 | 20 60         |
|        | " 16    | 1 (small) outer bearing, left " "    | 12       | 1 12 80 |               |
|        | " "     | 2 oil (grease) seal, front hubs      | 12       | 2 66 0  |               |
|        | " "     | Press bearings into left " hub       | 12       | 1       | 40 00         |
|        | MAR. 16 | Brake Caliper, new, right side       | 3        | 1 89 89 | 25 73         |
|        | " "     | Copper washers, caliper              | 3        | 4 25 4  |               |
|        | 2-6     | 14 NGK BR6ES spk. plugs              | 9        | 4 12 00 |               |
|        | OCT. 17 | Engine mounts, left + right, each    | 7        | 2 26 56 | ← included    |
|        | Dec. 17 | Installing new motor mounts          | 7        | 2       | 350 00        |
|        | Feb 18  | Control cable + knob, de-mist        | 15       | 1 59 34 | ← incl.       |

→ 2021 ←

|  |         |                                    |    |          |         |
|--|---------|------------------------------------|----|----------|---------|
|  | Jan 15  | Panel, heat control                | 19 | 1 14 99  | 73 8    |
|  | " "     | Buffer Set (10ea.), bonnet         | 2  | 1 69 9   | 31 4    |
|  | Apr. 22 | Heater valve + gasket              | 4  | 1 25 38  | 12 46   |
|  | July 22 | Starter Switch                     | 6  | 1 24 00  | 12 31   |
|  | " 23    | Boot, Starter Switch               | 6  | 1 34 9   | 63 3    |
|  | Feb 25  | Battery Mounting Pad Set           | 6  | 1 89 9   | 68 7    |
|  | " "     | Tar Top 60 volt batteries          | 6  | 2 41 340 | 299 47  |
|  | " "     | Bar, bracket hold-down, 6v battery | 6  | 2 11 34  | incl. → |

Totals, this page

11,6231 1,156

Totals, previous page

25,14222 1383380

Totals:

26,36453 1478980

Grand total: 41,294.33

1498980



(Battery hold-down hardware)

Source  
Date

n 3-2625 J-

Total  
Total  
Total  
Grand



m=mass

(14)

Source

Date

Items

System

Quantity Shipping

Parts Labor, tax

3-2625 J- Bolt set

1200

715

Totals this page

Totals, previous page

Totals:

Grand Total:

26,304.53 14,989.80



# System

## Notes

- 7 Head Gasket: Use "Paven" brand MGB Head gasket Set
- 7 Engine has an MGB Timing chain Cover.
- 6/4 fan Belt w/ India Gen. "DAYCO TOP COG 15370 11A0940 511D3
- 5 Sierra transmission: All gears virtually the same, except 2<sup>nd</sup>, which is slightly higher
- 7 Lawrie's Valve adjust spec: .014 HOT (Add .001 Cold)  
Counter intuitively, after setting at .013 while cold, the clearance becomes .014 when hot.
- 4 DO NOT OPEN Radiator drain tap more than 1/8 Turn.
- 9 Spark Plugs: 18-25 lb/ft torque .025 GAP
- 13 Speedometer re-calibration: with OEM Gearbox)  
Cable revolutions per rear wheel revolutions - 8 1/8 (8.125)  
Distance, center of drive wheel hub to ground - 12 1/8 (12.125")
- 8 Gas mileage; freeway + city: 24 mpg - 12 Gallon tank  
About a gallon left when needle is about 2/3 between empty & the 1<sup>st</sup> marker while sitting in normal driving position. Figure about 275 miles from full to empty.
- 12 Front Bearings: Size - SKF 6304 + SKF 6306 Clearance - "C3"
- 9 Timing: 10-14° BTDC @ Idle w/out VAC (new Advanced distributor rebuild)
- 7 Cylinder Compression: #1 - 142 6/25; #1 - 144  
(Aug, '10) #2 - 138 #2 - 137 1/2  
odometer: 1,627 mi. #3 - 142 #3 - 141  
#4 - 138 #4 - 137
- 13 wheel torque: 55 lbs/ft
- 9 Timing light hookup - see note inside back cover →
- 7 ZDDP per quart of oil: 3/4 oz.

| Side            | Standard |
|-----------------|----------|
| 1 <sup>st</sup> | 3        |
| 2 <sup>nd</sup> | 1        |
| 3 <sup>rd</sup> | 1        |
| 4 <sup>th</sup> |          |
| 5 <sup>th</sup> |          |



gear gasket Set  
to 11A0940 511D3  
same, except  
(Add .001 cold)  
.013 while  
in hot.  
than 1/8 Turn.

5 GAP  
gearbox)  
ious -  $8\frac{1}{8}$  (8.125)  
2 -  $12\frac{1}{8}$  (12.125")  
2 Gallon tank  
 $\frac{2}{3}$  between  
mal driving  
full to empty.

clearance - "C3"

distributor rebuild)

PH  
17 1/2  
f  
37

ver →

| Sierra<br>Standard Ratios |      | MCA  |
|---------------------------|------|------|
| 1 <sup>st</sup>           | 3.65 | 3.64 |
| 2 <sup>nd</sup>           | 1.97 | 2.21 |
| 3 <sup>rd</sup>           | 1.37 | 1.37 |
| 4 <sup>th</sup>           | 1.0  | 1.0  |
| 5 <sup>th</sup>           | .82  | N/A  |

At TDC → (BATTERYS)

There's no need to run the timing light cables to the back of the car! On the starter switch under the hood, there are two terminals; one has a cable from the battery, one a cable that goes to the starter motor. Connect one of your t/light cables to the terminal on the switch that has the cable from the battery, the other to any ground in the engine compartment. Ideally, you should have the timing set so that you see 35 degrees of advance; (clockwise)

advance at 3,000 rpm.



System ↓

Tools

Pa

Oil F

(Do No

FRAN

5 Gearbox fill plug: 10mm hex wrench.

7 Engine oil drain plug: 3/4" socket

13 Wheel Lug nuts: 3/4" socket

8 Fuel pump filter: 18mm

3 Brake bleeders, front: 10mm

3 Brake bleeders, rear: 7/16"

5 Differential Check/fill: Adapter (USE 14mm Box-

TAP W/  
HAMMER)

Oil

Use 20

4 Radiator drain valve: 15mm

8 Carb damper brass hex: 13/16"

Gear

14 Muffler: 1/2" socket, 7/16 deep socket, 7/16 Combo,

Expander pliers (red handle)

→ R

Front

6 Battery: 1/2" &amp; 12mm (10mm for Connecting cable)

7 Valve rocker adjust- 5/8" socket

1/2" box

Screwdriver

Span

Origi

enc

Rubber Mallet to break cover seal

Fuel

feeler (.014)

5 Driveshaft lub: 9/32 socket - unscrew grease fitting until grease  
gun can fit.

3 Banjo fitting to wheel cylinder: 15mm

3 Rear brake hose to 3-way - 15mm; other end - 18mm

3 " " " to bracket nut - 15/16

3 Handbrake brass adjusting nut - 9/16

8 SU damper rod screw-down - 13/16"

\* Spe



## Parts, lubricants

### OIL FILTERS:

(DO NOT USE WIX 51516)

FRAM PH3600

### Oil: Castrol 20-50

Use ZDDP oil additive; 1-4oz bottle per change.

→ Cam/lifter protection.

Gearbox Lub: Same as engine for stock Gearbox (NOT installed)

→ Red Line MT-90 (For Sierra 5-speed) (Installed)

Front Hubs/Bearings: Any lithium base grease compatible

Spark Plugs: NGK BPR6ES\* (.025 gap)

Original recommended plugs wrong heat range for this engine's rebuilt configuration

Fuel filter: Fram G1 or equivalent in-line (to fit 1/4" hose)

\* Specified by engine rebuilder



| MAINT. Schedule (miles) | System | Maintenance                                               | Mileage | Ma        |
|-------------------------|--------|-----------------------------------------------------------|---------|-----------|
|                         | 7      | Oil change: 7/06, 7/08, 4-11, 10-16, 5-20 →               |         | miles →   |
|                         | 7      | " Filter " : 7/06, 7/08, 4-11, 10-16, 5-20 →              |         | Loosen +  |
| 6,000                   | 5      | Trans. top-off: 8/06, 4-07, 7-09, 11-10, 2-14, 5-16, 4-20 | 3926    | Neve      |
| annual                  | 5      | Differential top-off: 4-07, 7-09, 11-10, 2-14, 5-16, 4-20 | "       |           |
| 12,000                  | 10     | Brake/Clutch fluid flush: 8/06, 2/09, 12-13 →             |         | Conver    |
| 12,000                  | 11     | Steering rack (90wt.) top-off: 8/06, 2-07 → N/A           |         | New St.   |
| 6,000                   | 12     | Shocks top-off: Rear - 6/06, 5-16 →                       |         | Must re   |
| 6,000                   |        | Front - 7/08, 5-16, 10-17                                 |         |           |
| 6,000                   | 7      | Valve adjust: 8-2020,                                     |         | .014 HO   |
|                         | 9      | Plugs cleaned & gapped: 5/06, 7/09, 6/14                  |         |           |
|                         | 9      | New Plugs: 7/09, 11-10, 1-14, 12-14 →                     |         | NGKB      |
| 1,000                   | 3      | Handbrake cable lub: 5/09, 6-16 →                         |         |           |
| 6,000                   | 8      | Fuel pump filter                                          |         |           |
| 6,000                   | 8      | Carb filters                                              |         |           |
| 6,000                   | 12     | Front wheel hubs repack: 1-07, 12-09, 2-16                |         |           |
| 6,000                   | 9      | Distributor cam bearing: 8/06, 4-07, 11-10, 6/19          |         |           |
| 6,000                   | 5      | TRANS DRAIN, re-fill 6-12                                 |         |           |
| 4,000                   | 5      | Differential drain, re-fill 6-12                          |         |           |
| 1,000                   | 5      | Propeller shaft front & rear grease 3-18, 4-20 →          | 3926    | Rear fill |
| 1,000                   | 6      | Battery check/TOP OFF 7/08, 3-09, 11-10, 2-14, 5-17, 5-18 |         |           |
| 1,000                   | 12     | Upper & Lower swivel links 3/09, 7/09, 10-10, 2-16, 5-20  |         |           |
|                         | 3      | Brake adjust: 12-09, 9-10, 2-14, 2-16                     |         |           |



[illegible]



30-May-03

1960 MG A 1600

Reg. No. 4792 (Utah)

Mileage: 00012

BRIEF: Repairs per e-mail instructions from customer

ORIGINAL ESTIMATE: \$3,500.00

Revised Estimate - \$5,000

## LABOR

Hours

|        |                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 9-May  | Remove engine and gearbox from car, separate gearbox from engine. Disassemble, clean and inspect gearbox, list parts needed for overhaul. Remove speedometer and tachometer.                                                                                                                                                                                                                                          | 8 |
| 12-May | Pack & ship speedo & tach for repair. Take generator & starter for overhaul. Put car on hoist, strip front suspension.                                                                                                                                                                                                                                                                                                | 2 |
| 13-May | Replace lower A-arms & bushings, thrust washers, seals, etc. as needed. Inspect steering rack, identify & order parts needed to eliminate free play. Clean parts. Remove clutch from engine, inspect same.                                                                                                                                                                                                            | 5 |
| 14-May | Reassemble front suspension. Strip and inspect rear brakes. Remove half-axes to access bearings and seals. Replace seals and one bearing. Replace rear brake shoes. Begin assembly of gearbox.                                                                                                                                                                                                                        | 6 |
| 15-Mar | Finish gearbox reassembly. De-grease engine, remove timing cover and tappet covers. Straighten timing pointers, replace t/cover seal & gasket, replace tappet cover gaskets. Remove and unplug block drain tap, try unsuccessfully - to clear passage behind drain tap. Replace tap. Paint engine.                                                                                                                    | 6 |
| 16-Apr | Paint valve cover, dipstick, other engine parts. Install new clutch on flywheel. Install new heater control valve. Install new dampening plungers on steering rack. Remove front brake calipers, begin task of disassembly (one was seized almost solid, the other was partially seized). Install new vacuum unit in distributor. Install new rear hub bearing. Inspect U-joints (OK). Lube and adjust steering rack. | 5 |
| 19-May | Finish disassembling, sandblast, paint and rebuild brake calipers. Note: calipers were modified to accept MGB pistons as original pistons could not be re-used. Re-install calipers on car, install new brake hoses, front and rear. Install handbrake lever boots.                                                                                                                                                   | 4 |
| 20-May | Install new steering rack tie rod ends. Cut off and grind smooth driver's side battery box, prep area for welding in new box. Install gearbox, new speedo cable. Clean engine compartment prior to installing engine.                                                                                                                                                                                                 | 4 |
| 21-May | Replace damaged brake pipe, front 4-way fitting to rear 3-way fitting. Install engine in car, begin re-connections.                                                                                                                                                                                                                                                                                                   | 4 |
| 22-May | Finish engine installation. Determine exhaust system to be so cobbled together that a replacement would fit much better and be less likely to leak. Locate good used system, prep for installation.                                                                                                                                                                                                                   | 4 |
| 23-May | Install starter, generator, radiator, etc. Install exhaust pipe, connect it to customer's original muffler. Add oil to engine and gearbox.                                                                                                                                                                                                                                                                            | 2 |
| 27-May | Check differential oil level. Install new fan belt. Bleed brakes and clutch. Install gearshift lever, re-connect driveshaft. Check reported problems with maplight and wiper motor. Discover knobs reversed on switches, fit knobs correctly. Discover broken wire on wiper switch. Repair same. Test wipers and map light - both now OK.                                                                             | 4 |
| 28-May | Re-bleed brakes and clutch. Set toe-in, center steering wheel. Inspect convertible top frame, replace missing rivet with bolt. Road test car.                                                                                                                                                                                                                                                                         | 1 |



30-May Install repaired speedometer and tachometer back into dashboard. 0.5

TOTAL LABOR HOURS 55.5

LABOR CHARGE @ \$60 PER HOUR \$3,330.00

|        |                                             |        |
|--------|---------------------------------------------|--------|
| SUBLET | UPS & Insurance, instruments to be repaired | 5.75   |
| LABOR  | Repair of Speedometer and Tachometer        | 280.00 |
|        | Return shipping on instruments              | 10.00  |
|        | Rebuild both front shock absorbers          | 199.90 |
|        | Service and test starter                    | 65.00  |
|        | Repair and test generator                   | 85.00  |

TOTAL SUBLET LABOR \$645.65

|       |           |                                             |       |       |
|-------|-----------|---------------------------------------------|-------|-------|
| PARTS | 1 331-120 | Tachometer cable                            | 11.95 | 11.95 |
|       | 1 331-110 | Speedometer cable                           | 11.95 | 11.95 |
|       | 1 280-498 | Heavy Duty A-arm bush set                   | 10.95 | 10.95 |
|       | 4 264-020 | A-arm                                       | 14.95 | 59.80 |
|       | 1 264-070 | Steel distance tube                         | 3.15  | 3.15  |
|       | 4 264-010 | Seal support                                | 0.80  | 3.20  |
|       | 5 324-510 | Thrust washer                               | 0.95  | 4.75  |
|       | 8 280-580 | Suspension seal                             | 0.95  | 7.60  |
|       | 1 263-288 | Tie rod end set                             | 24.95 | 24.95 |
|       | 1 262-190 | Rack dampening pad, L/H                     | 12.95 | 12.95 |
|       | 1 263-040 | Rack dampening pad, R/H                     | 3.25  | 3.25  |
|       | 1 182-150 | Relined brake shoe set                      | 39.95 | 39.95 |
|       | 1 180-470 | Handbrake lever boot, pair                  | 23.95 | 23.95 |
|       | 1 127-600 | Rear hub bearing                            | 39.95 | 39.95 |
|       | 2 121-400 | Rear hub O-ring                             | 1.95  | 3.90  |
|       | 2 120-900 | Rear hub oil seal                           | 2.95  | 5.90  |
|       | 2 296-100 | Rear hub paper gasket                       | 0.95  | 1.90  |
|       | 1 180-830 | Rear brake flex hose                        | 14.95 | 14.95 |
|       | 2 180-890 | Front brake flex hose                       | 19.95 | 39.90 |
|       | 4 324-720 | Copper washer, brake hose                   | 0.70  | 2.80  |
|       | 5 324-730 | Copper washer, brake fitting                | 0.30  | 1.50  |
|       | 2 180-748 | Front caliper rebuild kit (seals & pistons) | 37.85 | 75.70 |
|       | 2 180-385 | Front caliper fluid channel seal            | 9.95  | 19.90 |
|       | 2 180-295 | Clip, pad retaining                         | 0.70  | 1.40  |
|       | 1 296-440 | Gearbox gasket set                          | 4.95  | 4.95  |
|       | 1 121-100 | Rear gearbox oil seal                       | 5.95  | 5.95  |
|       | 1 120-300 | Front gearbox oil seal                      | 3.15  | 3.15  |
|       | 1 311-405 | Nut, gearshift knob locking, chrome         | 0.90  | 0.90  |
|       | 1 461-110 | Nylon bush, shift lever ball                | 6.40  | 6.40  |
|       | 2 461-520 | Brass synchro ring, 3rd/4th                 | 20.95 | 41.90 |
|       | 1 461-490 | Brass synchro ring, 2nd                     | 19.95 | 19.95 |
|       | 1 442-298 | Needle roller set, input shaft              | 9.95  | 9.95  |
|       | 1 461-878 | Laygear bearing kit                         | 46.95 | 46.95 |
|       | 1 461-560 | Laygear shaft                               | 20.95 | 20.95 |
|       | 1 461-610 | Layshaft thrust washer, rear, .157"         | 10.70 | 10.70 |
|       | 1 461-110 | Boot, clutch throwout arm                   | 3.95  | 3.95  |
|       | 1 190-550 | Bolt, clutch throwout arm pivot             | 7.25  | 7.25  |
|       | 1 330-200 | Bushing, pivot bolt                         | 1.95  | 1.95  |
|       | 1 (used)  | Rear gearbox output flange                  | 15.00 | 15.00 |
|       | 1 (used)  | Reverse shifter shaft and selector          | 15.00 | 15.00 |
|       | 1 (used)  | 1st/2nd shifter shaft and selector          | 15.00 | 15.00 |
|       | 1 (used)  | 3rd/4th shifter shaft and selector          | 15.00 | 15.00 |
|       | 1 (used)  | 1st/2nd shift fork                          | 15.00 | 15.00 |
|       | 1 (used)  | 3rd/4th shift fork                          | 15.00 | 15.00 |
|       | 1 (used)  | Reverse shift fork                          | 10.00 | 10.00 |
|       | 1 (used)  | 461-660 Reverse gear                        | 15.00 | 15.00 |



|            |                                               |        |        |
|------------|-----------------------------------------------|--------|--------|
| 1 (used)   | 443-090 Circlip                               | 3.00   | 3.00   |
| 1 360-410  | Heater control valve                          | 27.95  | 27.95  |
| 1 296-450  | Heater control valve gasket                   | 0.90   | 0.90   |
| 1 180-720  | Clutch slave cylinder                         | 58.95  | 58.95  |
| 1 180-820  | Hose, slave cylinder                          | 13.95  | 13.95  |
| 1 324-720  | Copper washer, slave hose                     | 0.70   | 0.70   |
| 1 325-140  | Clevis pin                                    | 0.85   | 0.85   |
| 1 180-200  | Pushrod, clutch slave                         | 9.95   | 9.95   |
| 1 190-120  | Clutch pressure plate, new                    | 104.95 | 104.95 |
| 1 190-140  | Clutch disc, new                              | 64.95  | 64.95  |
| 1 190-290  | Clutch throwout bearing                       | 21.95  | 21.95  |
| 1 163-665  | Vacuum advance unit                           | 65.00  | 65.00  |
| 1 163-620  | Vacuum unit-to-carburetor pipe                | 34.95  | 34.95  |
| 1 npn      | Breather fitting, front air cleaner           | 1.00   | 1.00   |
| 1 372-050  | Pipe, valve cover-to-fitting                  | 7.95   | 7.95   |
| 1 376-060  | Flexible oil line, engine-to-firewall fitting | 19.95  | 19.95  |
| 1 121-500  | Timing cover oil seal                         | 1.95   | 1.95   |
| 1 296-340  | Timing cover gasket                           | 2.50   | 2.50   |
| 2 296-370  | Tappet cover gasket                           | 0.95   | 1.90   |
| 1 220-540  | Red engine paint                              | 11.95  | 11.95  |
| 1 qty.     | Brake-Kleen                                   | 5.00   | 5.00   |
| 1 qty.     | Gunk engine cleaner                           | 5.00   | 5.00   |
| 1 qty.     | PB Penetrating oil                            | 5.00   | 5.00   |
| 1 qty.     | Castrol GT LMA brake fluid                    | 7.50   | 7.50   |
| 1 5L0502A  | Starter brush set                             | 7.50   | 7.50   |
| 1 406      | Generator field coil set                      | 29.95  | 29.95  |
| 1 6-202-4N | Generator bearing                             | 9.75   | 9.75   |
| 2 81-92204 | Generator brush                               | 2.95   | 5.90   |
| 1 4446     | Generator bushing                             | 1.95   | 1.95   |
| 1 CQF85348 | Engine oil filter                             | 6.95   | 6.95   |
| 4 qts.     | Engine oil, Castrol GTX 20-50                 | 2.50   | 10.00  |
| 3 qts.     | Gearbox oil, Valvoline 30 wt.                 | 2.50   | 7.50   |
| 0.5 pt.    | Rear axle oil, 75/90 wt.                      | 2.00   | 1.00   |
| 1 qty.     | Yellow paint, primer, other materials         | 5.00   | 5.00   |
| 1 296-410  | Manifold-to-head gasket                       | 2.95   | 2.95   |
| 1 470-138  | Exhaust pipe hanger kit                       | 13.95  | 13.95  |
| 1 (used)   | MGA exhaust pipe, manifold-to-muffler         | 30.00  | 30.00  |
| 2 281-900  | Speedo/tach cable grommet                     | 1.95   | 3.90   |
| 1 470-230  | Exhaust flange gasket                         | 4.25   | 4.25   |
| 1 324-626  | Oil drain plug washer                         | 0.35   | 0.35   |
| 1 470-270  | Radiator hose                                 | 5.95   | 5.95   |
| 1 gal.     | 50/50 Coolant                                 | 5.00   | 5.00   |
| 3 #20      | Hose clamp                                    | 0.75   | 2.25   |
| 1 #4       | Hose clamp                                    | 0.55   | 0.55   |
| 3 #6       | Hose clamp                                    | 0.60   | 1.80   |
| 2 ft.      | 1/2" Heater hose                              | 1.50   | 3.00   |
| 1 473-070  | Cable end stop                                | 1.95   | 1.95   |
| 1 GAT7355  | Fan belt                                      | 14.25  | 14.25  |
| 1 473-210  | Left-hand battery bracket assy.               | 69.95  | 69.95  |

TOTAL PARTS \$1,449.45

7.25% SALES TAX \$105.09

TOTAL LABOR, SUBLET, PARTS & TAX \$5,530.19

RECEIVED ON ACCOUNT, 5-30-03 -\$5,000.00

BALANCE DUE \$530.19

THANKS

Paul

Cash  
6/16/03  
WJ



BRITISH SPORTSCAR CENTER  
2997 Alhambra Drive  
Cameron Park, CA 95682  
530-676-7226  
Invoice No. 10433-2

16-Jun-03

1960 MG A 1600  
Reg. No. 4792 (Utah)  
Mileage: 00012

BRIEF: Repairs per e-mail instructions from customer  
ORIGINAL ESTIMATE: \$

| LABOR                                                                                                                                                                                                                                                                                      | Hours |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 2-Jun Modify new battery box to fit weld-repaired chassis. Tack into place.                                                                                                                                                                                                                | 1     |
| 3-Jun Take car to welding shop for proper welding of battery bracket.                                                                                                                                                                                                                      | 0.75  |
| 4-Jun Install 6-volt batteries. Make up interconnecting cable, move ground strap, connect batteries. Modify and install J-bolts,                                                                                                                                                           | 1.5   |
| 9-Jun Drain oil, remove pan. Remove, disassemble, clean and inspect oil pump - determine gears are worn. Install new gearset in pump. Remove and inspect pressure relief valve, note wear on valve. Remove rod and main bearing caps - discover badly worn shells and scored crank journal | 2.75  |
| 11-Jun Clean oil pan, remove old gaskets, remove old rod bearing shells, center main bearing shells, and thrust washers. Prep all parts for reassembly.                                                                                                                                    | 1.5   |
| 13-Jun Install new center & rear main bearing shells and new rod bearing shells. Install oil pump. Refit oil pan, add oil. Check tire pressures, road test car                                                                                                                             | 4.5   |
| TOTAL LABOR HOURS                                                                                                                                                                                                                                                                          | 12    |

LABOR CHARGE @ \$60 PER HOUR \$720.00

|        |                                       |         |
|--------|---------------------------------------|---------|
| SUBLET | Weld new battery bracket onto chassis | 40.00   |
| LABOR  |                                       |         |
|        | TOTAL SUBLET LABOR                    | \$40.00 |

| PARTS |         |                                           |       |
|-------|---------|-------------------------------------------|-------|
| 2     | 17HF-50 | Interstate 6-volt battery                 | 59.95 |
| 1     | qty.    | Materials for battery inter-connect cable | 10.00 |
| 2     | 11508   | J-bolt battery holddown set               | 5.25  |
| 1     | ORK703  | Oil pump gear set                         | 37.50 |
| 1     | 425-100 | Main bearing set, -.010"                  | 32.95 |
| 1     | 425-800 | Rod bearing set, -.010"                   | 28.95 |
| 1     | 425-550 | Thrust washer set, std.                   | 6.95  |
| 1     | 296-330 | Oil pan gasket                            | 2.70  |
| 1     | 460-725 | Oil pump-to-block gasket                  | 0.95  |
| 1     | 460-155 | Pressure relief valve                     | 6.95  |
| 1     | 329-210 | Pressure relief valve spring              | 1.25  |
| 1     | 324-650 | Washer, p.r.v. cap                        | 0.30  |
| 1     | 460-520 | Lock tab                                  | 1.45  |
| 4     | qts.    | Castrol GTX 20-50                         | 2.50  |

TOTAL PARTS \$270.35

7.25% SALES TAX \$19.60

TOTAL LABOR, SUBLET, PARTS & TAX \$1,049.95

Thank You

Paid  
Cash  
6/16/03  
me



BRITISH SPORTSCAR CENTER

2997 Alhambra Drive  
Cameron Park, CA 95682  
530-676-7226  
Invoice 10649

7-Apr-05

1960 MG MGA Rds,  
Reg. No. 5CPV601  
Mileage: 01404

BRIEF: Rebuild engine, install customer's Ford 5-speed (per R/O)  
ORIGINAL ESTIMATE: \$6,750 (per e-mail)  
Received Deposit 2-26-05: \$2,000.00  
Received further deposit 3-28-05: \$2,000.00

LABOR

Hours

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 28-Feb | Remove hood, drain oil & coolant, remove carbs., generator, other ancilliaries. Disconnect cables, etc., unbolt engine from gearbox. Remove engine from car.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   |
| 1-Mar  | Disassemble most of engine. Clean head, pack it and intake manifold for shipment to Mike Brown for special valve job. Remove gearbox and driveshaft from car.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5   |
| 2-Mar  | Finish engine disassembly, organise and load parts to go to machine shop. Unpack and check 5-speed gearbox kit. Take engine parts to machine shop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3   |
| 4-Mar  | Pack and ship camshaft for regrind.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.5 |
| 9-Mar  | R & R rear brake drums, inspect rear seals. Discover left rear seal leaking due to wear on end of axle housing. Order & install "Speedi-Sleeve" seal saver, clean backing plates, reassemble drums to axle. (Brake shoes were not contaminated.) Check rear axle oil level - OK. Remove exhaust system from car. Remove rear axle check straps (one broken, one breaking), order new ones. Check around fuel pump for customer-reported fuel leak. None found. Begin work on 5-speed transmission: bolt bellhousing to gearbox, install throwout arm & bearing from MGA gearbox into new bellhousing. Cut unneeded tab off tailshaft housing, trial fit rear gearbox mount. Trial fit selector mechanism, check shift pattern and action of all gears - AOK. Strip glued-on carpet and insulation from gearbox tunnel, remove access panel from top of tunnel. Other misc. preparation work. | 4.5 |
| 14-Mar | Wash up, scrape gaskets from, etc., all remaining engine parts. Locate good used timing cover which permits fitting of rubber front seal. Prep all parts for reassembly. Cut and install asbestos heat shield under floorboards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2   |
| 25-Mar | Pick up engine from machine shop.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1   |
| 28-Feb | Install new rear axle check straps. Install pistons on rods. Install new pilot bushing and flywheel studs in crankshaft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2   |
| 30-Mar | Grind reliefs on block surface for exhaust valve clearance. Wash & dry block. Lube and install camshaft and crankshaft. Gap piston rings, fit to pistons, install pistons and rods. Torque mains and rod caps. Install front bearer plate, timing gears, chain and tensioner. Install oil pump drive spigot, lube and install oil pump. Install seal in timing cover, install cover on engine. Install distributor drive spigot and tachometer drive assy. Install oil filter head and pipe, oil pressure regulator valve, other external plugs & fittings. Lube and install cam followers.                                                                                                                                                                                                                                                                                                  | 6   |
| 31-Mar | Clean, prep & paint exhaust header with high-heat paint. Install head studs. Install head & torque to 50 ft. lbs. Install pushrods and rocker assembly. Adjust valves. Install tappet covers & side breather tube. Install oil pan. Install water pump, thermostat and t/stat elbow. Paint fan and dipstick. Mask, prime and paint engine. Install engine backplate, flywheel & clutch. Paint motor mount brackets, install mounts on engine. Trial fit gearbox to                                                                                                                                                                                                                                                                                                                                                                                                                           |     |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|       | engine. Other misc. assembly work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 |
| 1-Apr | Bolt engine to gearbox, insert unit into car. Install rear gearbox mount. Test fit header to engine, note difference in intake manifold flange thickness. Also note interference between header and breather pipe. Remove header & intake manifold, modify flanges to match. Switch tappet cover positions. Refit intake manifold and header to engine. Install collector onto header pipes. Install slave cylinder and pushrod. Install starter, coil bracket & coil, generator, water pump pulley, fan and fanbelt. Other misc. assembly w                                                                                                              | 5 |
| 4-Apr | Paint and install radiator with its shroud. Install carbs, connect cables. Connect tach cable, install oil flex line. Fabricate and install clamp for tappet cover breather tube. Install drive shaft. Note gearbox is sitting too high to clear tunnel. Fabricate and install additional spacers to lower gearbox. Add oil to gearbox. Install distributor vacuum line. Remove old ID plates from valve cover, clean, prep and prime valve cover.                                                                                                                                                                                                        | 4 |
| 5-Apr | Install Pertronix unit into distributor, install distributor and modify wiring as instructed. Paint valve cover, install new ID plates. Install on engine. Add engine oil, crank engine to raise oil pressure. Fill cooling system, hang muffler on header, start engine, run up to temperature and to break in cam. Re-torque head nuts (20 ft. lbs.), re-adjust valves (.014" hot). Set timing, adjust carbs. Check gearbox shifts through all 5 gears & reverse (OK). Connect heater cables. Drill necessary holes in tunnel and ice-board, install speedometer cable. Check speedo operation - it reads. Re-check for fuel leak at rear - none found. | 5 |
| 6-Apr | Refit carpet around transmission tunnel. Install original shift knob. Refit hood. Install temporary muffler on header. Set tire pressures (26F, 28R). Refit battery cover panel. Road test car. Great (but noisy!). Make appointment with muffler shop for tomorrow morning.                                                                                                                                                                                                                                                                                                                                                                              | 2 |
| 7-Apr | Take car to and from muffler shop for exhaust system. Make final fine-tuning adjustments. Refit air cleaners.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 |

TOTAL LABOR HOURS 50

LABOR CHARGE @ \$65 PER HOUR \$3,250.00

|                                    |                                                            |        |
|------------------------------------|------------------------------------------------------------|--------|
| SUBLET LABOR                       | UPS & Ins. on head to Mike Brown                           | 20.00  |
|                                    | Mike Brown special head work                               | 775.00 |
|                                    | Return UPS on cylinder head                                | 25.00  |
|                                    | UPS x 2 on camshaft                                        | 15.00  |
|                                    | Regrind camshaft to Delta KB specification                 | 95.00  |
| Machine shop work on lower engine: |                                                            |        |
|                                    | Chemically clean and shot peen block                       | 60.00  |
|                                    | R & R core plugs                                           | 15.00  |
|                                    | Bore block +.040"                                          | 75.00  |
|                                    | Check line bore of main bearing saddles - OK               | 20.00  |
|                                    | R & R Cam bearings                                         | 35.00  |
|                                    | Magnaflux rods - OK                                        | 20.00  |
|                                    | Check rod big ends - OK                                    | 15.00  |
|                                    | Magnaflux crankshaft - OK                                  | 35.00  |
|                                    | Grind crankshaft -.020", -.020"                            | 140.00 |
|                                    | R & R flywheel ring gear                                   | 30.00  |
|                                    | Lighten flywheel                                           | 75.00  |
|                                    | Surface flywheel                                           | 35.00  |
|                                    | Balance crank, flywheel, clutch, pulley, rods & pistons    | 175.00 |
|                                    | Boil out, inspect & pressure test radiator                 | 40.00  |
|                                    | Fabricate exhaust system to connect header to Peco muffler | 85.00  |

TOTAL SUBLET LABOR \$1,785.00

|       |            |                                    |        |        |
|-------|------------|------------------------------------|--------|--------|
| PARTS | 1 420-558  | Piston set, +.040"                 | 289.95 | 289.95 |
|       | 1 190-040  | Flywheel ring gear                 | 64.95  | 64.95  |
|       | 1 NTL99193 | Rear axle end Speedi-Sleeve        | 44.95  | 44.95  |
|       | 1 425-150  | Main bearing set, -.020"           | 38.95  | 38.95  |
|       | 1 425-850  | Connecting rod bearing set, -.020" | 33.95  | 33.95  |



|            |                                             |        |        |
|------------|---------------------------------------------|--------|--------|
| 1 425-550  | Crank thrust washer set, std.               | 9.15   | 9.15   |
| 1 460-590  | Timing chain                                | 10.55  | 10.55  |
| 1 460-560  | T/chain tensioner                           | 10.95  | 10.95  |
| 8 460-600  | Cam follower                                | 10.30  | 82.40  |
| 1 328-630  | Engine locktab set                          | 21.95  | 21.95  |
| 1 297-302  | "Payen" brand MGB head gasket set           | 46.95  | 46.95  |
| 1 296-430  | Lower engine gasket set                     | 20.95  | 20.95  |
| 1 328-282  | Magnetic drain plug                         | 4.95   | 4.95   |
| 1 324-650  | Washer, OPR valve cap                       | 0.40   | 0.40   |
| 4 328-940  | Head stud, long                             | 5.20   | 20.80  |
| 7 328-950  | Head stud, short                            | 3.95   | 27.65  |
| 11 324-725 | Hardened washer, head nut                   | 0.80   | 8.80   |
| 2 460-255  | Shim, rocker pedestal                       | 2.25   | 4.50   |
| 1 454-855  | 3-branch exhaust header                     | 385.00 | 385.00 |
| 1 qty.     | High-heat paint for header                  | 5.00   | 5.00   |
| 1 npn      | Peco muffler (new but shelf-scratched)      | 100.00 | 100.00 |
| 1 222-615  | Pertronix electronic ignition kit           | 124.95 | 124.95 |
| 1 (used)   | Timing cover                                | 25.00  | 25.00  |
| 1 120-000  | Rubber timing cover oil seal                | 4.50   | 4.50   |
| 1 DA-2     | Cam bearing set                             | 40.00  | 40.00  |
| 4 EP14B    | Brass core plug                             | 1.75   | 7.00   |
| 2 267-610  | Rear axle check strap <i>Sierra</i>         | 9.65   | 19.30  |
| 2 qts.     | Redline MT-90 oil for <i>Datsun</i> gearbox | 8.95   | 17.90  |
| 2 qts.     | MT-90 oil for customer's Spitfire gearbox   | 8.95   | 17.90  |
| 1 460-950  | Water pump                                  | 51.95  | 51.95  |
| 1 can      | Primer                                      | 5.95   | 5.95   |
| 1 220-540  | Red engine paint                            | 12.50  | 12.50  |
| 2 324-610  | Tappet cover fiber washers                  | 0.35   | 0.70   |
| 1 470-270  | Lower radiator hose                         | 7.30   | 7.30   |
| 1 151-800  | Distributor rotor                           | 2.95   | 2.95   |
| 4 BP6ES    | NGK spark plugs                             | 3.50   | 14.00  |
| 1 408-800  | Valve cover plate, MG                       | 4.55   | 4.55   |
| 1 408-810  | Valve cover plate, <i>Patent nos.</i>       | 5.65   | 5.65   |
| 4.5 qts.   | Valvoline 30wt. Engine oil                  | 2.25   | 10.13  |
| 1 86002    | Fuel filter                                 | 4.95   | 4.95   |
| 1 npn      | Glasspack muffler, pipe & clamps            | 45.00  | 45.00  |

TOTAL PARTS

\$1,654.93

7.25% SALES TAX

\$119.98

TOTAL LABOR, SUBLET, PARTS & TAX

\$6,809.91

LESS: DEPOSITS RECEIVED

-\$4,000.00

BALANCE DUE AT PICK-UP

\$2,809.91

Cam Specs - Delta KB (DeltaCams, Spokane, WA)

Duration @ 16 thou = 265

IO 28 IC 66 (56?)

EO 56 EC 28

Cam Rise .283

Lobe Centers 108

Valve Clearance (Hot) .014"

*Pat 4-9-05*  
*Thanks!*



## MGA Ford Sierra Gearbox Conversion

### Fitting Instructions

This gearbox conversion kit is designed for adapting the Ford Type 9 gearbox, 5 speed as fitted to the Ford Sierra 1983-1987 to the MGA. This gearbox is referred to as 'N' type in Haynes Owner's Workshop Manual for Ford Sierra.

### Safety

There is considerable work required underneath the MGA when fitting this conversion. Consequently the use of a vehicle inspection pit or vehicle lift is recommended. If these are not available the car will need raising front and back to give sufficient space to work safely and comfortably under the engine/gearbox/propshaft areas. To accomplish this support the car front and rear with properly sized and located axle stands. Do not use vehicle or trolley jacks for permanent support, only for raising and lowering the car.

### The conversion kit comprises the following parts.

1. Cast Aluminium Alloy Bell Housing. Four fixing bolts/washers.
2. Machined aluminium alloy clutch release lever pivot. 2 fixing bolts/washers.
3. Clutch release lever pivot bolt, nut and washer.
4. Gasket. Bell housing to gearbox.
5. Spigot bush (extended).
6. Rear mounting bracket/ 2 distance pieces/ 2 bolts/ spring washers.
7. Rear mounting / 2 fixing bolts/washers/nuts. 1 central fixing bolt/ spring washer.
8. Rear mounting support cross member.
9. Cross member spacer (2)
10. Cross member tapped securing plate (2). 4 securing bolts/washers.
11. Modified gear lever assembly. 3 securing screws.
12. Clutch plate.
13. Propshaft c/w Sierra gearbox nose piece.
14. Speedo cable / circlip / grommet.
15. LOCTITE
16. Set of bolts & nuts to fasten bell housing to engine.

### General Philosophy

The cast aluminium alloy bell housing replaces the Ford cast iron bell housing from the Sierra application. The MGA Clutch release lever and clutch slave cylinders are re-used on the new bell housing.

An extended spigot bush is a force fit into the rear of the crankshaft and this bush supports the shorter Sierra gearbox primary shaft in the correct position.

The MGA Clutch cover assembly is re-used with the new driven plate supplied.

A new gearbox mounting / attachment bracket and cross member is used to support the gearbox. The supporting crossmember is fixed to the 'C' section gearbox tunnel and floorboard support rails which run longitudinally at the side of the gearbox. Fixing is by a tapped plate, spacer each side and four bolts.

A new, balanced propeller shaft complete with Sierra gearbox splined nose piece is supplied which replaces original shaft.