

mini *spares*

Essential, Tuning and Accessories

**Catalogue
2004**



£1.50



The World Leader in Mini Spare Parts

Fuelling your passion

When production of certain parts stop, Mini Spares go to great lengths to remanufacture, test and supply the best quality replacement parts as required. This ensures that your Mini can stay on the road.



Welcome to the latest addition of the Mini Spares Essential, Tuning and Accessory Catalogue. With well over 2600 parts detailed it's our biggest yet.

The last few years has seen many changes to the Mini and in October 2000 the last Mini rolled off the production line, ending 41 years of production. This period has also seen many Rover dealerships close, making the sourcing of parts very difficult; hence we have included a lot of standard service parts in the catalogue. In 2002 Rover ended their long standing relationship with Unipart to stock and distribute parts. This has all contributed to the supply problems now being experienced by the Mini owner. Many parts believed to be readily available, are now obsolete, making Mini Spares role in the upkeep of the classic Mini even more important.

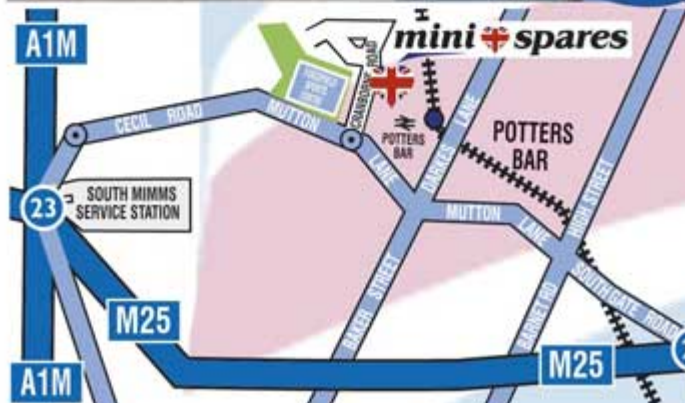
Mini Spares have taken up the challenge to keep the supply chain flowing and to keep the classic Mini on the road. Keith Dodd, the founder of Mini Spares, is using his 40 years of experience to ensure the best parts are made available to Mini Spares customers. Mini Spares endeavor to use proven OE(original Equipment) suppliers wherever possible, to resource parts. Any parts no longer available through OE suppliers are redeveloped, manufactured and independently tested, to ensure the parts for your Mini are the best possible quality, fitment, and performance to comply to British Standards (UKAS).

Come and see the Head Office, Main showroom & Distribution centre now fully operational, and open to the public, in Potters Bar, Hertfordshire. Contact our highly knowledgeable staff by phone, in store or by email. See the hugh range of stock held or visit one of our three showrooms.

For secure shopping online 24/7 visit www.minispares.com .

Mini Spares - Head Office, Main Shop, Mail Order & Distribution Centre

Potters Bar



Mini Spares Main Store, Mail Order and Distribution Centre
Unit 12 & 13
Cranbourne Industrial Estate,
Cranbourne Rd. Potters Bar, Herts. EN6 3JN

Telephone Sales: 01707 607700

Telephone Export Sales: (+44) 1707 607700

Opening Times: Mon-Fri 9.00am - 5.30pm
Saturday: 9.00am - 1.00pm Sunday: Closed
Fax: 01707 656786
e-mail: sales@minispares.com

Mini Spares - North Harrogate

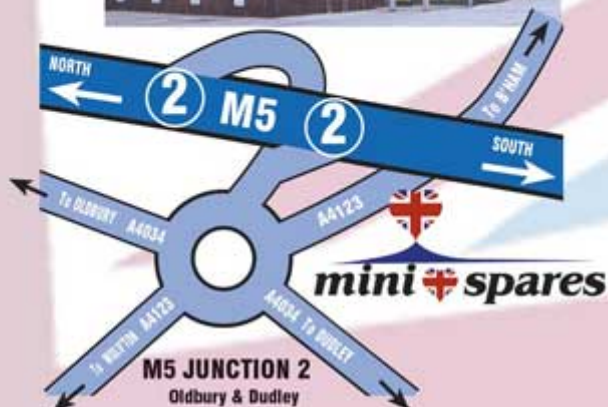


Mini Spares - North
Unit 6, 2 Freeman's Way, Wetherby Rd. Harrogate,
North Yorks. HG3 1DH

Telephone: 01423 881800

Opening Times: Mon-Fri 9.00am - 5.30pm
Sat 9.00am - 3.00pm Sunday: Closed
Fax: 01423 881801 e-mail: north@minispares.com

Mini Spares - Midlands Oldbury



Mini Spares - Midlands
991 Wolverhampton Rd. Oldbury,
W. Midlands. B69 4RJ

Telephone: 0121 544 0011

Opening Times: Mon-Sat 9.00am - 5.30pm Sunday: Closed
Fax: 0121 544 0022

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Website - www.minispares.com

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- Secure online ordering
- Special Offers & Sale Items
- Technical articles
- Fitting instructions
- Full Online Catalogue
- Community Forums
- Race Calendar & Reports

Engine Accessories

1

Sumpguards



1. For serious off-road and rough stages, the only type to fit is the rounded sledge front version, which helps ride the car over potentially damaging rough terrain. Extra strengthening bar fits on to front subframe crossmember adding reinforcements. Similar design to the Scottish/ Scandinavian works design. Weight 8.335 kilos. Order as C-AJJ3320
2. Extension piece for either sumpguard 1 or 3 to give added protection. Weighs 2.770 kilos. Order as C-AJJ3320 EXT
3. The square front type is adequate for competition road use and is cheaper and lighter than item 1. Weighs 4.885 kilos. Order as C-AJJ3321

Sumpguard - Mini Cooper

4. Sumpguard stamped with Mini Cooper. Not ideal for lowered cars as it hangs at least 25mm under gearbox base. Weighs 5.2 kilos. Made in steel.



Order as KRH10003

Sumpguard - Innocenti

5. Innocenti - original type of Italian Mini Sumpguard Very useful. Inexpensive protection for the fins on the gearbox. Sturdy steel construction. Weight 4.23kilos.

Order as MS96



Sumpguard - Mini Spares Mag/Alloy

6. Mini Spares Mag/Alloy Sumpguard for road use only. Weighs 2.770 kilos giving adequate protection for everyday use. Especially on lowered cars to protect the gearbox cooling fins. 5mm clearance from gearbox case. CNC designed to fit front sub frames correctly.

Order as SUMPGUARD



Rocker Cover T Bars

Pair of quick release T bars only, to replace the standard nuts.

7. Pair of chrome T bars only. Order as SAC71. Also available in anodised Blue or Red. Add BLUE or RED to part number
8. Pair of Chrome T bars with chrome fittings (2 washers and 2 spacers). Order as SAC71C
9. Set of chrome nuts and washers to replace those dowdy old originals (2 nuts, 2 washers and 2 spacers). Order as SAC71L



Alloy Rocker Covers



10. Minifin rocker cover without cap (uses genuine cap GFE6003, Chrome cap FP27 and Monza Flip cap FP30) Order as CAM6822
11. Our British made flat top design of alloy rocker cover fits all A-series cylinder heads, but may not allow sufficient clearance of hi-lift rockers. Supplied with chrome cap FP27 as shown.
 - a. In polished alloy . . . Order as FP26
 - b. In Red Order as FP26RED
 - c. In Blue Order as FP26 BLUE
 - d. Cap only for above . Order as FP27



Mini Spares Rocker Covers

12. Mini Spares embossed rocker covers were designed to fit any A-series cylinder head and allow fitment of all known hi-lift rocker assembly configurations. This British made rocker cover is supplied with and will only accept the GFE6003 black rocker cover cap. This is the rocker cover often seen pictured on cars being promoted or reviewed by leading mini magazines.
 - a. For Mini Spares Rocker Cover in Black Order as ROCKER CVR
 - b. in Red. Order as ROCKER CVR02
 - c. in Blue. Order as ROCKER CVR03



NOTE: For all rocker covers. Do not forget to order a new rocker cover gasket and nut seals. (see bottom of page)

Rocker Cover Caps

13. Original Black Plastic Cap with historic names of many leading oil manufacturers.
 - a. Vented type as fitted to all A-Series engines with closed circuit breathing which is recommended for service change every 12,000 miles. Order as GFE6003
 - b. Early flat non-vented cap as fitted to 850cc and early 998/1100cc cars. Order as 12A402
14. Chrome vented cap fits all alloy rocker covers except Mini Spares shown above. Order as FP27



Monza Flip Cap



- a. Monza type chrome cap for fitting to FP range of rocker covers. Order as FP29
- b. For fitting to original Minifin CAM6822 rocker cover . . . Order as FP30
- c. Minifin Rocker cover with Monza polished flip cap kit. (CAM6822 with FP30) as shown above. Order as ROCKER CVR06

Rocker Cover Gaskets and Seals

16. Rocker cover cork gasket for all A series and Mini 1959-2000
 - a. For 9 stud standard applications(not shown) . . Order as GUG705009VC
 - b. For 11 stud applications Cooper S(not shown) . . . Order as GUG5038VC
17. Rocker cover nut seals harden and crack, so should be replaced with gasket.
 - a. black rubber . . . Order individually as 12A1358
 - b. red poly Order individually as 12A1358RED
 - c. blue poly Order individually as 12A1358BLUE
 - d. yellow poly Order individually as 12A1358YELLOW



Top Quality Oil

Good quality oil is very important in Minis as it has the dual function of lubricating the engine and gearbox. Some oils have a detergent base in them for keeping engines clean, but this in turn can cause wear on such items as layshaft, differential pins and baulk rings.

Many performance and race engines benefit by using synthetic oils, which help put a coating on parts to prevent wear. They should not be used for running-in periods, as synthetic oil also puts a coating on rings, which prevents them from bedding in and sealing properly.

1. **Duckhams** was originally introduced to the Mini to cut oil consumption. It is supplied in 1 gallon (4.5 litre) plastic can. . . . **Order as DUCKHAMS**
Or with a GFE166 Filter for a special offer price **Order as S04**
2. a. **GTX** 5 litre, 15w 40 grade . . . **Order as GTX**
b. **Unipart 20W50**, Good general oil for standard engines or to run engines in before using synthetic oils **Order as GUL7005T**
c. **Unipart Semi Synthetic 10W40**, Superb all round use **Order as GUL2005B**
d. **Unipart Fully Synthetic 5W40**, **Order as GUL1005B**



Redline Additive

3. **Redline additive** enables unleaded petrol to be used safely in engines designed for leaded fuel. Treats 100 gallons (450 litres) from the 355ml bottle endorsed by the federation of British Historic Vehicle Clubs. For 355 ml **Order as REDLINE**



Mounting Brackets

4. **Stainless steel coil bracket**. **Order as 8B12397**
5. **Stainless steel coil cover and bracket**. **Order as 8B12398**
6. **Stainless steel wiper motor strap and rubber**. **Order as 37H4836**



Turbo Accessories

12. **Bulkhead box**, creates clearance for Turbo. **Order as TURBO**
13. **Reinforced manifold gasket for Turbo**. **Order as GUG704063MG**
14. **Downpipe** to fit turbo exhaust outlet. **Order as ET3**



15. **Block to turbo oil feed pipe**
Order as TURBO 04
16. **Turbo fuel pump**
Order as TURBO 05
17. **Fuel pressure regulator**
Order as FPR012

18. **K&N Filter** clamps onto existing turbo air pipe for use in Mini body. **Order as RU-0840**
19. **In Car adjustable boost valve**. **Order as TURBO 06**
20. **Dump valve** **Order as TURBO 07**
21. a. **Turbo boost gauge** **Order as SWG527**
b. **Hose and fitting kit for SWG527**. **Order as LMA001**
c. **Camshaft for Turbo**. **Order as TURBO 03**
d. **Oil pump for Turbo engine**. **Order as GLP110MS**

2 Oils, Filters Brackets & Turbos

Spin On Type Oil Filters



7. a. **Unipart first grade filter** as fitted to new cars (spin on type). **Order as GFE166**
b. **For twin point injection cars, 97>** **Order as GFE280**
8. a. **Latest premium range of filters from Unipart**, that has the latest hitech filtration papers and supercedes the previous best available GFE1. A must for any performance car. **Order as GFE21**
b. **For twin point injection cars, 97>** **Order as GFE26**

Oil And Air Filter Elements



9. a. **HS2 carb type element** (use 2 for twin carb Cooper & S) **Order individually as GFE1038**
b. **HS4 carb type element** **Order as GFE1008**
c. **HIF carb type element** 1990on Coopers and Metro **Order as GFE1096**
d. **Fuel Injection oval shaped element**, single and twin point **Order as GFE1143**
e. **Metro Turbo** (but not ERA Turbo element) **Order as GFE1113**
f. **Oil filter element to fit in metal canister pre spin on filter** **Order as GFE103**
g. **Oil filter element to fit in metal canister all Mini automatics**. **Order as GFE104**

Dipsticks

10. **Stainless steel dipsticks** with anodised knob in red or blue.
a. **For red knob**. . . **Order as MSA1125**
b. **For blue knob**. . . **Order as MSA1124**
11. **With chrome T-handle knob**. **Order as MSA1134**



Mini Spares CST Modified Heads



WE NO LONGER STOCK ANY OTHER BRANDS OF CYLINDER HEADS BECAUSE THEY ARE UNABLE TO MAINTAIN OUR HIGH STANDARDS!

Mini Spares exclusive 9 stud hole heads are flow bench proven to be the best flowing lead free cylinder heads available at these prices when compared to all our competitors.

Developed to provide the best over-all flow to ensure optimum power for a variety of fast road engines from 850 to 1430cc. Assembled with superior quality components for both budget and race component specifications to give longevity, even where abrasive low quality lead free fuel is used and regardless of valves and guide choice. All heads are made to the same comparative shape, design and flow. The only difference being the budget road spec head has iron guides and chromium plate stemmed valves, whereas the race spec head has magnesium bronze guides and EN21 stainless steel valves - heat treated to eradicate wear. All are fitted with C-AEA526, 180lb (nominal) anti coil bind valve springs.

Modified Lead Free Heads



Unleaded heads with manganese bronze guides and race spec EN214N stainless steel heat treated valves to eradicate premature wear.

- 35.7mm inlet valve and 29.5 mm exhaust valve especially suitable for 1380cc. For pre 1992 vehicle with bypass hose Order as MSE3
 - 35.7mm inlet valve and 29.5mm exhaust valve as per MSE3 but with nominal 24-25cc combustion chamber size for use with 7cc dish 73.5mm pistons Order as MSE9
 - 35.7mm inlet valve and 29.5mm exhaust valve especially suitable for 1380cc but for cars after 1992 or without bypass hose Order as MSE4
 - 35.7mm inlet valve and 31mm exhaust valve with bypass hose Order as MSE5
 - Twin point injection cars only 35.7mm inlet valve and 29.5mm exhaust valve (refundable surcharge on this is £70) Order as MSE7
 - 850/998/1100 modified head with largest valves 30.93mm inlet and 26.5mm exhaust Order as C-AHT88
- Refundable surcharge on all heads (unless stated otherwise) £40.00

Budget Modified Lead Free Heads

Unleaded heads with chromium plate stemmed valves and iron guides but with near identical flow characteristics.



- 35.7mm inlet valve and 29.2mm exhaust valve with bypass hose pre 1992 Order as C-AHT135
 - 35.7mm inlet and 29.2mm exhaust valve for 1992 on cars without bypass hose Order as MSE6
 - 35.7mm inlet valve and 29.2mm exhaust and nominal 24-25 cc combustion chamber size for use with 7cc dish 73.5mm pistons Order as C-AHT133
 - Twin point injection cars only 35.7mm inlet and 29.2mm exhaust valve (refundable surcharge on this is £70) Order as C-AHT136
- Refundable surcharge on all heads (unless stated otherwise) £40.00

Standard Reconditioned Heads

Unleaded heads

- 850/998cc with no temperature transmitter hole Order as GCG1001
 - 850/998cc with temperature transmitter hole Order as GCG1007MS
 - 998cc Metro without bypass hose Order as GCG1007METRO
 - 1275cc head with bypass hose Order as GCG1009MS
 - 1275cc head without bypass hose and heater outlet Order as GCG1009METRO
- Refundable surcharge on all heads £40.00

Thermostat Housings



For Thermostats see page 19 Items 16 & 17

- The most commonly fitted thermostat housing (water elbow) up to 1990 before introduction of sandwich plates. Also fitted on most single point injection cars, without any ancillary holes. Order as 12G103
- The thermostat and sandwich plate gasket order individually as Order as GTG101MS
- Same 12G103 casting shape but with a 8mm hole drilled for sensor unit on carb models 1990 on Order as PEQ10010
- This large bore (1.25" 32mm) elbow is available in two forms...
 - When the small outlet pipe is not drilled as fitted to Mini from 1990 on carb models Order as PEQ10019
 - When the small outlet is drilled as overflow pipe for expansion tank as used on Mini Metros. Order as CAM6117
- Some late single point and autos Order as PEQ100690
- For twin point front mounted radiators only Order as PEQ100650
- Thermostats must be fitted in the sandwich plates when used and there were 3 different types fitted from 1990 plus one for the Metros and as fitted to the ERA Turbo.
 - Metro and ERA Turbo where the outlet points straight at radiator and has 14-15mm bore outlet Order as 12G3512
 - Sandwich plate with 10mm bore outlet elbow but no threaded holes. Order as PEG10002
 - As per PEG10002 but with extra 8mm thread hole for YWL10010 sensor as shown Order as PEM10036
 - As per PEM10036 but with 12mm thread hole (1.5 fine pitch) to take sensor GTR206 for twin point injection only Order as PEG100030

Temperature Transmitters

- All Minis 1970 on. Fits in cylinder head, Order as GTR101
 - Cooper 'S' pre 1964 and all Minis without voltage stabiliser Fits in cylinder head Order as GTR102
 - Cooper 'S' from 1964 and all Minis upto 1970 with voltage stabiliser fitted Fits in cylinder head Order as GTR104
- Single point injection fits in manifold. Cars after 1991 Order as GTR307
- Twin point injection cars, fitted in sandwich plate. Order as GTR206
- Cooper SE sensor, fits in sandwich plate. Fits Cars 1990-91 Order as YWL10010



ARDEN 8 Port Cylinder Head

1. Currently considered the ultimate push rod cylinder head for the A-series engine. Although modern technology has seen the development of the standard iron five port head to the point of producing almost as much power as the eight port head - there is a sacrifice of mid range power and torque. These are not compromised using the eight port and can, indeed, be capitalised on. This casting is from the original tooling, although modern technology and alterations have been applied to eliminate any porosity problems. It is supplied with guides and circlips, choice of springs, spring seats and top caps, valves 35.6 and 30.88mm valve seals, cotters, 4 longer front block studs, exhaust and inlet gasket. Austenitic valve seat inserts are fitted, suitable for lead free use. The 16.4cc (nominal) combustion chamber shape is left basic, so those with developed chamber shapes can apply them. These heads require a special type of cam shaft where the lobes are transposed on cylinders 2 and 4. A variety of induction systems can be used, A special exhaust manifold is also required.

Order as C-AJJ4064.

Amal four carburettor kit

2. The Amal four carburettor kit was perhaps the most popular originally, as this compact kit fitted easily under the bonnet profile - a matter of importance to early racers having to follow strict rules. A couple of mechanical injection systems were also adapted - Tecalmit and Lucas. The Telcalmit system being the most popular as it was somewhat cheaper than the Lucas system, and easier to tune for the DIY racer. Neither of these systems are available now. The Amal setup are best suited to smaller capacity engines (1000-1293cc) as choke size is restrictive over this.

For the complete Amal kit Order as C-AJJ4083

It was not long until the ubiquitous Weber was employed, although linkage was a complex set-up to get working well. Full power potential was only realised when a longish manifold was used, which meant having the carburettor mouths poking out through the bonnet or an "unsightly bulge" to cover them.

Mini Spares can supply two lengths of manifolds to take 45DCOE Webers - one for racing and one for carburettors that just squeeze under the standard bonnet profile. However, this second manifold pair are not tremendously efficient due to the offsets and angles used to tailor the fit. Both manifolds are formed and fabricated in steel by Manifold so produce the optimum flow achievable given the fitting criteria.

3. Long inlet manifolds are sold as a pair Order as C-AHT507

4. Short inlet manifolds are sold as a pair Order as C-AHT508



4

8 Port Head & Superchargers



POWERTRAIN



MBE Electronic Injection Kit (to order only) ... Order as C-AJJ4084

5. Every component needed to install & convert your Mini to a fuel injection system. Can run closed loop lambda control (if required) and capable of producing 150HP at the flywheel, while giving prodigious low down torque.

Cams and ancillaries for 8 port head:-

6. Special camshafts and exhaust manifolds are required when using the eight port head as the cam lobe sequence is different to the five port head requiring modification to the con rods. Longer screws or modification to valve gear is necessary. A facts and specifications sheet can be supplied upon request. This details machine work required, and supplies full specifications of the assembly.

a. This cam is basically the venerable '649', but with the lobes transposed on cylinders 2 and 4. Timing is 50/70 - 75/45 with a 300° period. Cam lift .315"

Order as C-AEG636

b. Again, basically the old 'Sprint' cam, with the relevant transposition of the lobes. Timing is 60/80 - 75/45, 320° inlet period, 300° exhaust period. Cam lift .315"

Order as C-AEG599

c. Full Race modern spec cam. Needs 13-1 CR minimum for maximum potential. Timing 49/81-81/49, .340" in / .304" ex cam lift. Order as C-AEG310

d. Race/Rally modern spec cam. Timing 39/71-76/44, .320" in / .304" ex cam lift. Order as C-AEG296

e. Fast Road/Rally modern spec cam. Timing 34/66-71/39, .310" in / .320" ex cam lift. Order as C-AEG286

Supercharger Kit

- available to special order only

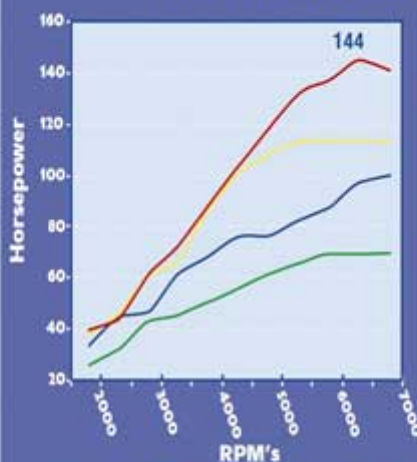
The twin screw supercharger is a positive displacement 'compressor' not just a blower and has a greater volumetric efficiency over most other designs. The biggest benefit is the low down torque and feel of power, plus easy maintenance.

up to 1000cc Order as SPC1

1100cc-1600cc Order as SPC2



RESULTS OBTAINED FROM FITTING SUPERCHARGER KIT:



1275 Race Blown 1380 Race Blown 1380 1275 Stock

The facing chart shows the horsepower increases of the Supercharger compared to their respectful "UN-supercharged" counterparts.


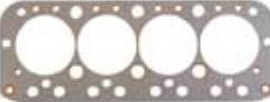
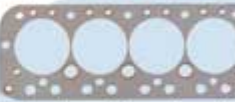



The stock 1275cc engine had 8.5:1 compression with a 266 camshaft and LC8 standard cylinder head, and pistons, single 1 3/4" SU carb, everything else standard.

The 1275cc Race unit had 12:1 compression, Longman GT17 head, High lift rockers, 296 scatter pattern camshaft, Mega piston, twin 1 3/4" Su carbs, etc., etc.

The 1380 blown motor has a compression of 8.5:1, a standard cylinder head, "AE" big bore pistons, "731" style camshaft and a 5-speed transmission. Boost is 4 to 6 PSI. The only change for the race 1380 was a boost increase to 10 to 14 PSI.

The horsepower numbers are very impressive but the "feel" of power, torque and grunt is even more spectacular.

Head Gaskets

- Group 'A' Metro Turbo head gasket.** This gasket has an extra reinforced fire ring to eliminate inter-chamber blowing. 3.1cc compressed volume. Necessitates modification of the block - details available from MSC. Not suitable for bores over +.040". Beware TAM1521 is stamped on this gasket which is also the standard gasket number on which it is based. 
..... Order as C-STR1057
- Original competition copper/composite head gasket.** Manufactured by Payen to their latest specifications. Essentially used on 1275cc plus engines, but also for small bore engines when using 12G940 head casting. Has a 3.72cc compressed volume, 3 waterway holes are larger. 
..... Order as C-AHT188
- Copper/composite Payen AF460 head gasket.** Suitable for all large bore modified engines. 3.8cc compressed volume. 
..... Order as GEG300
- Standard black in colour composite steel reinforced gasket** used on all large bore engines (not for 8 port heads) as standard, but is an exceptionally good gasket. 2.8cc compressed volume, is asbestos free with a special sealing ring for the rocker oil feed supply hole. Stamped AF470. 
..... Order as GUG702560HG
 - The original black Payen head gasket,** fitted before AF470 as standard is also asbestos free stamped as BK450. This is the superior gasket. Has a 2.8cc compressed volume 
..... Order as TAM1521
- Copper/composite small bore head gasket.** Very good quality gasket. Can be used for all applications since the demise of the C-AEA647 ex 'ST' head gasket. 2.8cc compressed volume. (was TAM2121) asbestos free with special sealing ring. 
..... Order as GUG702506HG

Engine Block Sets

- Engines with side plate tappet chest covers.** Order as AJM202MS
 - Engines without side plate tappet chest covers 1300cc only**
..... Order as AJM206MS

Valve Springs

A few years ago modern hi-lift, short duration cam shafts posed quite a few problems. Widely available performance valve springs were outdated overnight as it became necessary to reduce spring crush values. This, in turn, caused low valve seat pressures creating valve float at high rpm.

Mini Spares has massively simplified these problems by introducing two types of spring that covers all eventualities. Manufactured from super-quality silicone wire imported from Switzerland, their resistance against fading and breaking is extremely high. They are also designed to take standard type top caps. They can be fitted directly to the head with no fear of spring crush even when using 1.5 ratio rockers. These springs have now proved their reliability and are widely accepted as the benchmark for all uses. They have been used on our own modified heads for over 7 years without problem.

- Anti coil-bind dual springs** for use up to 8000 rpm, 165lb load at .380" lift, 185lb at .495" lift. For all Cooper 'S' or twin spring uses.
..... Order set as C-AEA526
 - Anti coil-bind dual springs for race use,** will take .570" lift without modifications, nominal 240lb.
..... Order per set as C-AEA527
- Above specs assume std fitted length - 1.40" on pre A-plus and small bore heads, fitted length is 1.35"-1.37" so the rate is slightly higher.
- ISKEY type race springs** are used by some racers or for specific applications. (Special top caps are required. Not stocked).
 - for 260lb** (USA poundage measurements) .. Order per set as C-AEA524
 - for 320lb** (USA poundage measurements) .. Order per set as C-AEA529

Shows spring heights showing less coils on anti coil bind springs which help eradicate spring crush on high lift camshafts.




- Single outer spring Pre A-plus 850,998,1100cc.**
..... Order individually as AEA 311
 - Single outer spring for all A-plus engines 998 and 1275cc.**
..... Order individually as 12G 1015
- Spacer shims** are available to increase valve seat poundage and overall spring load. If the spring seat in the head has already been machined, it will be necessary to re-shim to the correct fitted length.
Spring seat shims (set of 4), .080" thick (2mm), when spring or valve seats have been overmachined. Order as SS4
- It is preferable to use bottom inner spring locating collars** with all dual springs to prevent breakage caused by the inner spring wandering at high rpm.
 - Competition lower inner spring locator**
..... Order individually as C-AEA654
 - Standard lower inner spring locator,** Now obsolete from Rover but not required with our C-AEA526/7 twin spring sets.
- Original steel 'S' competition top caps.** Order individually as AEA653
- Race top caps** - ultra light weight, hard anodised aircraft alloy top caps are available. These do not pull through at high rpm.
..... Order per set as C-AEA528



Head Gasket Sets

- A range of top quality budget priced gasket sets are available which are rationalised to fit all models and change points by including the extra gaskets that can be discarded if not required.
 - 850/998/1100 Small bore engine Order as AJM1250MS
 - 1275 with budget copper head gasket Order as AJM1140MS
 - 1275 with AF460 Payen copper head gasket ... Order as AJM1141MS

Manifold Gaskets

- Large port competition manifold gasket,** all 5 port heads. 
 - Large Port etc.** Order as C-AHT381
 - Standard manifold gasket** Order as AJM601
 - Injection Cars** Order as GUG704053MG
 - Turbo manifold gasket with metal retainer rings on exhaust ports**
..... Order as GUG704063MG

Gearbox Gasket Sets

- Gearbox gasket set any year.** Order as AJM 804B
(This is not supplied with clutch seal or output shaft seals)

Cam Followers

It is of great importance to use high quality cam followers to get the best performance and reliability from your cam.



- Use of poor quality followers will lead to definite failure of the cam. The cam followers supplied by Mini Spares are of the highest quality, manufactured by an OE supplier to Rover Group. Always use cam lube when fitting new cam followers.
- Standard weight cam follower.** Weighs 44 grams. Order individually as 2A13
 - Standard weight cam follower with oil drain hole.** Weighs 44 grams. Order individually as AEG584
 - Lightweight cam follower with oil drain hole.** Weighs 40 grams. Order individually as C-AEG579
 - Re-developed to combine all the attributes of previous followers of this quality, plus unique push rod location. Much of the valve train problems suffered by the A-series engine is caused by the little known about problem of the push rods being able to float/jump about in the follower. To minimise the problem, we've taken great care to ensure consistent and accurate tolerances of the push rod socket in the follower base, maximising push rod location and valve train accuracy and control. Extreme attention to detail and tolerances ensures consistent edge chamfering and foot curvature. The built-in extra height increases follower stability, and careful paring down of dimensions keeps weight to a minimum. Both greatly improve follower life. Suitable for all cam types and uses. Weighs 40 grams Order as C-AEG580

Hi-Lift

Rocker Assembly



The new generation of short period, high lift cams have been developed to give the best results in large bore engines when used in conjunction with 1.5 ratio, hi-lift rockers.

For the small bore range, the 'S' 1.3 to 1 ratio is optimum. In certain instances a ratio of 1.7 to 1 is of benefit - but really only this applicable to fully developed race engines. Not recommended for small bore engines except full race applications.

Hi-Lift Rocker Assembly

The ultimate lightweight alloy valve gear giving maximum efficiency cutting down side loading on valve stem, reducing friction and wear whilst increasing rigidity. Available in 1.3 ratio lift which is standard or the 1.5 hi-lift which has valves open approximately 20% more at any given point, although opening and closing periods remain the same. The 1.5 to 1 lift vastly improves volumetric efficiency and therefore power output. When fitted to a 1275cc or large bore engine it gives the equivalent of fitting a mild camshaft. The alloy rockers have hard chrome roller tips and dual needle roller bearings that sit on a special rocker shaft.

Roller Tip & Roller Rockers (Full Roller Rockers)

The original Full Roller tip Rockers fitted with roller bearings that ran on a $\frac{5}{8}$ " rocker shaft are no longer stocked because of short supply and a dramatic price increase. The new Mini Spares full roller rocker will use standard adjuster screws and a $\frac{9}{16}$ " standard size shaft. The $\frac{5}{8}$ " size was only used because it was inherited from tooling for other applications, namely the Ford Xflow and MGB. The spares for the old type with a $\frac{5}{8}$ " shaft and screw in plugs either end are available to order

1. Standard lift 1.3 roller tip and roller bearing rockers for 1275cc big bore engines only Order as C-AHT402
2. a. R/H rocker for C-AHT402 Order as C-AHT403RIGHT
b. L/H rocker for C-AHT402 Order as C-AHT403LEFT
3. 1.5 hi lift roller tip and roller bearing rockers for 1275cc big bore engines only Order as C-AHT407
4. a. R/H rocker for C-AHT 403 Order as C-AHT408RIGHT
b. L/H rocker for C-AHT402 Order as C-AHT408 LEFT

By holding the rocker the correct way up with the adjusting nut facing towards you the roller is biased to the left or right which will then denote the side required. All other individual parts are available to special order only.

Evolution Roller Tip Rockers

The budget set with bushes rather than needle rollers uses the same alloy arm and hard chrome roller tips allowing fitment of a super thick wall rocker shaft, standard adjuster screws and nuts plus special posts. All



this culminates in a high quality yet infinitely more economical roller rocker set, as the roller tip is the most important factor to reduce valve and guide wear when using modern performance cams. To use on small bore heads it is necessary to rearrange the rockers to line up the tips with valve stems.

Since 1998 the rockers have been made in purple which denoted a change in angles. This slight change was to give better clearance for push rods on A-plus heads. You will need to use your existing spacer springs or spacers between the rockers.

The old original type were blue and are not available as a spare part. Note they are not interchangeable.

5. 1.5 Hi-Lift with roller tip rockers only and bronze bushes for 1275cc big bore engines only (purple) Order as C-AHT446A
6. Spare rockers for C-AHT446A are available.
a. Right hand Order as C-AHT447RIGHT
b. Left hand Order as C-AHT447LEFT
7. Standard lift 1.3 roller tip rockers for 1275cc big bore engines only Order as C-AHT400
8. a R/H rocker for C-AHT400 Order as C-AHT401RIGHT
b L/H rocker for C-AHT400 Order as C-AHT401LEFT

6

Rocker Gear



POWERTRAIN

Forged Rocker Gear



9. 1.5 Hi-Lift set with adjusting screws, posts and shaft. Super strong CAD/CAM designed drop forged EN16 with valve pad hardened to 52.5 to 55 on Rockwell 'C' scale using thick wall rocker shafts. Order complete kit as C-AHT436
10. Original Cooper 'S' type rocker cast in special aircraft release EN8 steel with 54-56 rockwell hardened pads, that are correctly profiled to reduce side-loading on valves. Single 1.3 rocker with standard lift less adjusting screw and nut. Order each rocker individually as 12G1221
11. Replacement single rocker for C-AHT436, less screw and nut. Order as C-AHT435
12. The only current production rocker from Rover is sintered and runs without a bush. Order as CAM289



13. Adjuster screw fits 12G1221, C-AHT400/402/403/436/446A and CAM289 sintered rocker. Order as AEG167
14. Set of 8 extra long adjuster screws, approximately 8mm ($\frac{5}{16}$ ") longer, i.e. about 8 threads extra for use when standard screws are not long enough to give adjustment on certain modified engines plus 8 port heads Order set as C-AEA692
15. Lock nut for screws 13 and 14 above. Order individually as NT605061

16. Original OE glacier rocker bush, sold individually. Order as 2A21

Super Thick Wall Rocker Shaft



To enhance valve gear rigidity and reliability, especially in high-revving engines, there is a super-thick-wall rocker shaft available. Heat treating rocker shafts is now no longer done as it greatly accelerates wear of the rocker bushes. It is cheaper and easier to replace a worn shaft than a set of worn bushes; the bushes require reaming to size once fitted.

17. Super-thick-wall rocker shaft - non needle roller type, 3.6mm wall thickness. Blanks purchased by Mini Spares and precisely finish ground to exacting tolerances Order as C-AEG399
18. 2.4mm thick wall rocker shaft. Order as 12A1950

Rocker Spacers & Shims

To help rocker pad to valve stem tip alignment and reduce friction the standard springs can be replaced by spacers and shims.

The spacer set is sold as a set of 3, the shims are sold individually.

19. Rocker spacer set, not for roller tip rocker sets. Order as C-AEG392
20. Rocker shims, to adjust rocker alignment. Order as AEG168
21. Rocker shims, as fitted to each end of shaft. Order as AEG169

1380cc Short Engine

7

Built-up Short Engine

1380cc Built-up Short (half) Engine for Road Use

1 This engine is vacuum packed for storage and is built to the following specifications based on A-plus engines.

Crankshaft reground and fitted with new bearings and thrusts. Set of remanufactured selected con rods with Powermax 73.5mm pistons fitted. Block is correctly offset bored to take the larger pistons, refaced, cleaned and then refitted with new core plugs and oil bungs. New camshaft bearings fitted and the crankshaft main bearing housings line bore honed. An Evolution fast road camshaft is dial gauge timed exactly and fitted with new cam followers. This camshaft was selected because during extensive testing and trials it gave the broadest range of power and torque to over 6000 rpm, although only 5500rpm was required for fast road use, still giving acceptable economy. Distributor spindle will be fitted on future models, so ensure you have A-plus distributor. A front plate and timing cover are fitted to accept a set of new duplex gears and timing chain. The compression ratio is 9.75 to 10 to 1 when using a standard 21cc head. The engine is painted Leyland Green.

Primary gear and all clutch ancillaries/components are NOT supplied. Head studs and water pump are NOT supplied. The front pulley and bolt are NOT supplied. The oil pump and oil filter assembly are NOT supplied.

1

All the parts not supplied are considered bolt on parts which should make the rest of assembly within the ability of any Mini owner who is armed with a technical manual for torque settings and fitting procedures.

1. Order as ENG001
Refundable surcharge on old core.....£75

WARNING

Do not use synthetic based oil for the running-in period as it is detrimental to the ring bedding in process

NOTE

The ring packs on these engines are coated in special heavy oil for storage and will smoke heavily on start up

Studs, Nuts and Washers

2 Studs, nuts and washers.

a. Competition head stud kit .

The special competition head stud, nut and washer (11 stud) kit was developed to replace the increasingly inconsistent standard items. The studs are manufactured in selected hi-grade steel and produced to exacting specifications. These studs do not stretch, so pull the head down, not the thread up. This vastly increases head gasket life, even on very high compression engines. Special thick washers, counter sunk on one side, help clamping capability and reduce thread bottoming of the nuts on the studs. The special nuts help to increase torque accuracy through better thread engagement. Order as C-AHT280

b. Standard upgraded head stud and nut kit. made in alloy steel, heat treated to 75 tensile tons per square inch, finished in chemical black. Kit includes 9 studs, 9 nuts and a special head washer set. Order as C-AHT279

c. Standard upgraded head long stud as in kit 2b. Order as CAM150

d. Standard upgraded head short stud as in kit 2b. Order as CAM151

3. a. Short head to rocker studs are available individually

.... Order as 51K1473 (2 per head required)

b. Long head to rocker studs are available individually

.... Order as 51K885 (2 per head required)

4. Competition head washer set of 10. Original ST disc spring type especially required when using original 6 sided head nut. Order as C-AHT288

5. Head nut set of 10. Latest flanged type $\frac{3}{8}$ unf nut with built in washer and 6 point shoulder, as per A-plus Order as C-AHT287

6. Individual $\frac{3}{8}$ unf multipoint head nut for head studs, and Cooper 'S' big ends. Order individually as EAC5541A

7. Extra 11th stud (head bolt) as used on Cooper 'S' in competition quality Order as C-AHT281

The following are dress up parts in different grades of stainless steel, but more importantly corrosion resistant.

8. Heater tap stud (2) and 6 sided nuts. Order as C-STR285

9. Thermostat stud (3) and multipoint nut kit. Order as C-STR286

10. Manifold stud (6) and multipoint nut kit. Order as C-STR287



2



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RACE WINNERS & RACE SERIES USE MINI SPARES PARTS

Mini Spares have supplied all top Engine builders, competitors and specialist car preparation companies since 1975 and together we have built up an enviable and unique confidence in our parts. The proof is in the top competitors and winners who use our parts in every area of Motor Sport. Some series such as the Mighty Minis which has just been voted the Best Club championship in the UK with nearly 80 entrants have raced many seasons using our parts built into their regulations. Many of the highly tuned 1293cc Mini Miglia series drivers use our parts and the Mini Spares sponsored car of Peter Baldwin has won 3 out of the last 4 years and achieved the most fastest laps for 3 years out of 9. Peter Baldwin is famous for his rolling road facility where many of our parts are put through their paces, Bill Sollis another champion from Miglia is an example of a front runner and leading competitor.

Mini Miglia



Bill Sollis



Peter Baldwin

Mini Miglia



Mighty Minis Race Series



Alex Comis

Mini spares have only ever supplied, researched, designed and developed parts loyally for the mini car without any other distractions. We do not renovate, repair or work on customers cars.

Mini Spares Sponsor the Mighty Mini Series.

For all Mighty Minis Racing enquiries please contact - roger@mighty-minis-racing.co.uk Tel: 020 7790 5565

Fast Mail Order - Direct from Stock! Call: 01707 607700

Competition Valves



All our competition valves are produced in EN214N steel and require Manganese/Silicon bronze alloy valve guides. They are stellite tipped and use the later narrow single collet groove and current high efficiency valve head shapes and designs. The statutory use of unleaded fuel causes premature wear on valve stems therefore all our competition valves will be heat treated to eradicate this problem. All valves sold individually.

1. INLET VALVES

- 37.7mm (1.484") inlet valve for 12G940 casting..... Order as C-AHT110
- 37.2mm (1.464") inlet valve for 12G940 casting..... Order as C-AHT55
- 35.7mm (1.406") inlet valve
 - a. for 12G940 casting..... Order as C-AEG544
 - b. triple grooved A-Plus valve*..... Order as C-AEG543
- 35.7mm (1.406") inlet valve for AEG163 casting MK1'S. Order as AEG593
- 33.3mm (1.311") inlet valve for 12G940 casting. Order as C-AEG569
- 30.93mm (1.218") inlet valve all small bore head casting.*
..... Order as C-AEG588
- 35.6mm (1.405") Longer inlet valve. 8 port head only Order as C-AHT376

2. EXHAUST VALVES

- 32mm (1.260") chrome stemmed exhaust valve for 12G940 casting. Not heat treated..... Order as C-AEG570
- 31mm (1.220") exhaust valve for 12G940 casting..... Order as C-AEG107
- 31mm (1.220") exhaust valve for AEG163 casting..... Order as AEG594
- 29.5mm (1.161") exhaust valve
 - a. for 12G940 casting..... Order as C-AEG106
 - b. triple grooved A-Plus valve*..... Order as C-AEG105
- 26.5mm (1.043") exhaust valve for all small bore castings.*
..... Order as C-AEG587
- 30.93mm (1.218") longer exhaust valve for 8 port head only Order as C-AHT377

'Small bore' is a classification for 850/998/1098cc. -

*only available in late type triple collet groove.

'Large bore' is any Cooper 'S' and all 1275cc + engines

Standard Production Valves

3. Inlet Valves for 1275cc

- a. Single grooved valve.
 - 35.6mm (1.484") inlet valve for 12G940 casting..... Order as AEG592
 - 33mm (1.311") inlet valve for 12G940 casting..... Order as 12G941
- b. Triple grooved valve.
 - 35.6mm (1.484") inlet valve for 12G940 casting..... Order as TAM1059
 - 33mm (1.311") inlet valve for 12G940 casting..... Order as TAM1058

4. Exhaust Valves for 1275cc

- a. Single grooved valve.
 - 29.2mm (1.149") inlet valve for 12G940 casting..... Order as CAM4601
- b. Triple grooved valve.
 - 29.2mm (1.149") inlet valve for 12G940 casting..... Order as TAM1061
- c. Lead free insert. For Exhaust Valves..... Order as TAM2069

Mini Spares pride themselves in keeping top quality tried and trusted parts at the most competitive prices.

8

Valves



POWERTRAIN

Rimflo Valves



We also stock a limited of range of Rimflo valves for the 'A' series. These are produced in EN214N steel with chrome plated stems which enable them to be used with standard iron guides. All Rimflow valves start with the prefix C-RIM.

3. RIMFLO INLET VALVES

- 36.6mm (1.44") inlet valve for 12G940 casting..... Order as C-RIM55
- 35.7mm (1.405") inlet valve for 12G940 casting..... Order as C-RIM544
- 33.3mm (1.311") inlet valve for 12G940 casting..... Order as C-RIM569
- 31.8mm (1.252") inlet valve for small bore casting..... Order as C-RIM104

4. RIMFLO EXHAUST VALVES

- 31.75mm (1.250") exhaust valve for 12G940 casting..... Order as C-RIM570
- 30.9mm (1.217") exhaust valve for 12G940 casting..... Order as C-RIM107
- 29.3mm (1.15") exhaust valve for 12G940 casting..... Order as C-RIM106
- 27mm (1.06") exhaust valve for small bore casting..... Order as C-RIM105

Small bore available to customer order only

Valve Guides/Seals



Although Silicon bronze valve guides were used for their extremely good wear values they were very hard and not user friendly when fitting. Where possible we have now introduced the Manganese bronze guides which have good cutting properties and good wear characteristics and are original equipment on Porsche and Mercedes.

Bronze alloy valve guides are required when using EN214N steel valves unless the valve stems are chrome plated. Guide material specifications may change as more modern materials are tested.

- 5. a. All 5 port heads. Manganese bronze guide are sold in sets of 8..... Order as C-AJJ4037
- b. 8 port head only sets of 8..... Order as C-AHT364
- 6. Iron guides are bullet shaped for better flow characteristics. Type shown are 12G1963 which accept ADU4905 seal.
..... Order individually as 12G1963
- 7. Top hat seals are always fitted on inlet valves and also on the exhaust valves on standard Rover unleaded heads.
..... Order individually as ADU4905

Mega Pistons

IMPORTANT NOTE:

To offer our customers a better service we now supply and sell each piston individually. Therefore for a complete engine set of pistons you must order four. Ringsets are for all four pistons.



Mega Piston

Because of poor supply and constant demand over many years for a 1275cc performance piston Mini Spares developed the "MEGA" piston range.

Recruiting the AE Hepolite Group in 1999 for their unquestionable and renowned design and manufacturing expertise, the goal was to produce the most robust piston possible given reasonable cost and weight limits. Applying current technological advances incorporating their very latest hi-spec AE109TF lightweight alloy and special double heat treatments, the result is an extremely durable piston that will withstand greater cylinder pressures at higher rpm than any other currently available cast piston.

To simplify the range, material has been concentrated around previous problem areas - the ring lands and crown - providing one crown height which is 1.2mm thicker than other leading manufactures. This ensures sufficient material in critical areas to allow machining where long stroke cranks or longer con rods are used. This design guards against premature damage from poor/low quality modern fuels with the rings re-sited to minimise detonation damage in high compression engines. The ring dimensions are compatible, and therefore interchangeable, with the Omega Mini piston range. Full-circle skirts are used for maximum piston and ring stability. They also feature a specifically designed ridged finish on the side of the piston walls which helps retain oil, to protect against scuffing and galling at start up and cold running. A tapered gudgeon pin is employed to maximise stiffness against its light weight. Now used successfully for over 3 years in all variations of modification and motorsport.

Two of many winners using Mega Pistons



Steve Young
Class E Winner 3 Years running,
Racing Club Post Historic Touring Car
Championships 2000-2002.
Breaking 9 Track records.

Bill Richards
Using a 1460cc with our 8 Port Head,
Class Winner & Overall Runnerup
SEMSEC BSW Intermediate Saloon
Championship 2003

WARNING

Do not use synthetic based oil for the running-in period as it is detrimental to the ring bedding in process

- 6.5cc dished piston available in +20, +40, +60... Order as C-AJJ3378
 - Turbo 9.4CR with 11.3cc dish available in +40 only uses Mega ringset. Order as P22357S
- Flat top piston available in +20, +40, +60... Order as C-AJJ3382
 - Ringsets for C-AJJ3378, C-AJJ3382 and P22357S and Omega. Available in +20, +40, +60... Order as C-AJJ3379
- 7cc dished, 73.5mm piston. Order as C-STR310
- 11cc dished, 73.5mm piston. Order as C-STR312
- Ringsets for C-STR310, C-STR312 and Omega 73.5mm. (4 pistons set). Order as C-STN96

Large Bore Pistons

AE Hepolite pistons are part of a group (Federal Mogul) who are the largest manufacturer of pistons in the world.

Rationalisation of their product lines has deleted some of the "Powermax" competition piston range. However, their current standard production

pistons are of such high quality they have been used in many successful competition applications. Replacement ring sets are readily available.

Large Bore Pistons - All Cooper "S" and 1275cc.

- 9.4CR, 1275cc low drag slipper piston. Not Turbo. Available in Standard, +20, +40, 8.1cc dished. Order as P21250
 - 8.8CR, 1275cc low drag slipper piston. Available in Standard, +20, +40 and +60, 8.1cc dished. Order as P21251
 - Ringsets for P21250 & P21251. Available in standard, +20, +30, +40, +60... Order as R35960
 - 9.75CR, 1275cc low drag slipper piston. Available in Standard, +20, +40 and +60, 8.1cc dished. When fitted to Cooper "S" and early 1300 blocks can equal 10:1CR. Order as P21253
 - Ringsets for P21253. Available in standard, +20, +40, +60... Order as R41570
- 73.5mm "Powermax" big bore 9cc dished piston set. Order as P20659
 - Ringset for P20659. Order as R39390



WHEN ORDERING PISTONS OR RINGSETS PLEASE STATE SIZE REQUIRED

Small Bore Pistons



Small Bore Pistons 998/1100cc (press fit gudgeon pins)

- 10.3CR Flat top, press fit gudgeon pin 998cc. Available in Standard, +20, +40... Order as P22463 (Rover No. TAM2052)
 - Ringset for P22463. Available in +20, +40... Order as R33636

Small Bore Pistons 998/1100cc (Fully floating gudgeon pins)

- 8.3CR Dished piston 998cc. Inexpensive replacement piston with oil groove. Available in +20, +40 and +60... Order as P20773
- 9.6CR Flat top piston 998cc. A stronger version than the dished P20773, should not be used continually over 6,500rpm. Available in Standard and +20... Order as P20754
 - 8.5CR piston 1098cc. Available in Standard and +40... Order as P20397

Pistons Liners

- 998 piston liner. to customer order only. Order as 12G164
 - 1275 piston liner. (HEPOLITE SU3598). Order as AEG428



Mini Spares Stage One Kit

For 998cc / 1100cc / 1300cc engines

- The engine will require adjustment/tuning after fitment and specialist equipment or knowledge is required. It is advisable to have the car set up on a rolling road and ensure exhaust emissions and ignition timing are correct.
- This kit is not recommended for vehicles with factory fitted engine management control units, 1275cc - Oct.1991 on.
- Fitting of extra engine/gearbox stabilisers is recommended.

This kit includes:

- Freeflow exhaust manifold.
- Mini Spares inlet manifold.
- RC40 exhaust system and fitting kit.
- K&N filter element.
- Replacement carburettor needle (spring loaded BIAS type only).
- Manifold gaskets and carburettor gaskets.
- Full fitting instructions.

- 998/1100 STAGE 1 KIT Order as C-STN17
- 1300 STAGE 1 KIT. When using HIF38/HS4 carb. Order as C-STN18
- 1300 STAGE 1 KIT. When using HIF6 carb. Order as C-STN18A

All our tuning kits use exhaust pipes with 1.625" optimum internal bore size - extensive dyno tests have proved this to be the best! Larger sizes loose usable power.

Performance Kits for Coopers

- Bolt on Performance kits for Cooper 1275cc cars from 1990 on, with HIF44 1.75" carburettor. The contents of this kit are as below. To fit this kit a knowledge of cylinder head replacing, timing and carburettor adjustments is required. Order as C-STN19

For 1275cc fuel injected engines - from October 1991 on

- Kit for fuel injection cars retains catalyst but uses RC40 single rear box. Kit includes modified large race spec valve lead free modified Mini Spares CST cylinder head, roller tip rocker gear, replacement air filter element, gaskets, spark plugs, RC40 rear box and fitting kit. On single point cars 20 - 25% extra power can be expected, but on twin point cars 20% is the norm. Keith Dodd has this kit fitted on his twin point and finds the car is far quicker at top end and has improved acceleration throughout the rev range.
 - For single point car: Order as C-STN20
 - For twin point car: Order as C-STN21

4 5 6



Budget Performance Kit

- The above kits with road specification valves in the head and forged rockers, which gives near identical power in all ways as with number 5A and 5B. This is a beneficial cost cutting exercise.
 - For single point car: Order as C-STN20BUDGET
 - For twin point car: Order as C-STN21BUDGET
- A pipe to replace the catalytic converter is available where local laws permit (suitable for both the above kits 5 & 6) Order as C-ARA664



10

Performance Kits



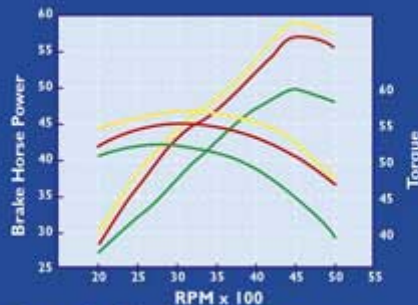
POWERTRAIN



Beware: Instructions must be read carefully. Although the 998/1300 stage one kits are bolt on parts, easily fitted by any person with mechanical knowledge, points a, b and c at top of page must be understood.

RESULTS OBTAINED FROM FITTING 998 KIT:

- 20% more power
- 12% more torque
- Best mpg 55
- Worst mpg 42
- Average mpg 47
- No significant noise increase



- Standard induction and exhaust system
- Modified system using MG Metro inlet manifold
- Modified system using Mini Spares' inlet manifold

Stage One kit

For pictures of individual items see P27 & 28

8



For all fuel injected cars

- Stage One Kit. If your front downpipe or exhaust are getting tired then change to this conversion and get extra power for little expense. New better flowing downpipe and flexible knuckle to catalyst and a single rear silencer box section from catalyst back plus all gaskets and fittings required. Order as C-STN22
- Flanged Nut for exhaust stud. Order individually as FX108047
- Stud for exhaust downpipe flange Order individually as TD108051A
- Rubber hanger strap Order as DBP7104
- Catalyst gasket 2 required. Order individually as GEX7761
- Down pipe to manifold gasket Order individually as GEX7779

Oil Valves/Pumps



Being the heart of the engine, it is obviously essential that the oil pump is in prime condition when fitted. Due to robotised manufacture of the commercially produced pumps, tolerances have been opened up to facilitate rapid production and assembly. This has brought about a decline in the effectiveness of the pumps, especially in arduous environments such as racing and fast road work. Oil pressure in some cases has all but disappeared! Of course long term results are disastrous, not to mention expensive. Basically the pumps are effectively worn out when new. (Recent engine strip-downs have shown that the use of our C-AHT54 special gauze pickup pipe greatly extends oil pump life vastly reducing foreign bodies getting into the pump).

Mini Spares Sureflow Oil Pumps

The Sureflow pumps are constructed using the same 4 into 5 rotor/annulus type as used in the Mini Spares Turbo oil pump, as this highly efficient design gives consistently higher actual delivered flow rates demanded by customers for superior oil delivery. The rotor/annulus is precision machined to reduce its capacity to be more compatible with non-turbo applications where the need for the turbo pump's extra flow rate (as opposed to pressure) to cool the turbo is not required. Strictly adhered to tolerances ensure consistency of superior performance. This supplies more than enough oil for the Mini engine - some 30% of which is dumped straight back into the sump via the pressure relief valve. A greater oil supply would only create a loss in power. Port design ensures minimal drain off when engine is not running to give instant oil pressure on re-start.

All the pumps have unique multi hole fixings so any pumps can be fitted without the necessity of drilling and tapping the block, but if fitting a 1300cc oil pump to 998cc blocks a spacer 12G1127 would still be required. When changing the camshaft we recommend you purchase an A-plus type, which has stronger 1/2" lobes and fit the corresponding oil pump to block type.

Flow comparison - gallons per minute/litres per minute at 1000rpm.

MSC Sureflow oil pumps	1.41/6.4
MSC Turbo oil pump	1.78/8.1
Holburn Eaton steel backed pump	1.32/6.0
Concentric 5 into 6 rotor/annulus	1.27/5.8

1. 998cc spade drive A-plus. Order as C-AEG413
2. a. 1300cc slot drive A-plus. Order as C-AEG412
b. Oil pump with increased pumping capacity as required, originally on Turbo engines. Order as GLP110MS
3. 'S' 3 belt, long peg drive pin pump. Order as C-AEG410
4. Pin drive early small bore engines except 'S' Order as C-AEG414
5. Star drive. Order as C-AEG411
6. A high pressure oil warning light switch is available to help protect the engine. The standard one comes on 7lb - much too late a warning to avoid any damage. The high pressure one HPS1 comes on at 22lb, and is a direct replacement for the standard one. But this is a 15-60lb high pressure adjustable oil warning light switch. Order as HPS3

Oil Pressure Regulator Kit



7

7. Oil pressure regulator kit is a simple way of increasing or decreasing oil pressure by the turn of a knob. You do not need high oil pressure; just consistent.
 - a. with chrome adjuster knob, Order as HPS4
 - b. with black adjuster knob, Order as HPS4BLACK
 - c. with red adjuster knob, Order as HPS4RED
 - d. with blue adjuster knob, Order as HPS4BLUE



8

8. Original Cooper S oil release valve spring, shorter and stronger than the standard mini spring Order as AEA536



9

9. Ball bearing to replace standard valve spring (shown as number 11). Often used on performance engines where dirt or debris could get trapped around the standard valve (must use with AEA536) Order as BLS916

10. Oil release valve kit. (Items 8 & 9 together) Order as AEA536KIT

11



11. Standard oil pressure spring. Order as 6K853
12. Original type oil release valve cap. Factory fitted Order as 12H865
13. Standard oil release valve kit. (Items 11 & 12 together) Order as 6K853KIT

Drain Plugs & Magnetic Oil Traps



14

14. Magnetic sump plug with extended nose to collect metal debris in the bottom of the gear box Order as DP1



15

15. Sump plug repair plug with tapered cutting threads (must never be over-tightened!) Order as DP2
16. Sump plug standard as originally fitted Order as DAM7335



16



17a



17b

17. Magnetic oil trap. Fits in place of oil pick up plate on the rear of gearbox
 - a. With filter. Order as HPS5
 - b. Without filter. Order as HPS6
18. Transmission drain plug with hole for capillary type oil temperature gauge. Order as HPS8



18

Oil Switches and Transducers



19

19. Fitted as standard on all twin point cars from 1996 which have an electrical oil temperature gauge. This transducer switch replaces the oil pressure release cap on the engine block Order as YCB100320



20

20. a. Standard oil switch that activates at about 7-10LB Order as GPS133
b. High pressure oil switch that activates at about 22LB. Order as HPS1



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21. Oil Pressure Switch fitted from 1996 on Order as GPS135

Forged EN40B Cranks



1. Forged EN40B steel nitrided cranks are considered the ultimate in specification, even over the 'billet' type. This is mainly because the grain pattern of a forging follows the shape of the webs and bearings where as the billet type is machined across the grain. We hold stocks of all the forged type cranks which have superior oil distribution galleries. All are machined to fit 1300 non-'S' centre main except C-AEG479 which is 'S'.
 - a. 81.33mm stroke EN40B, nitrided, 1.625" 'S' big end journal.
For 'S' block..... Order as C-AEG479
 - b. 76mm stroke EN40B, nitrided, 1.625" 'S' big end journal.
For 1300cc block..... Order as C-AEG476
 - c. 84mm stroke EN40B, nitrided, 1.625" 'S' big end journal.
For 1300cc block..... Order as C-AEG497
 - d. 86mm stroke EN40B, nitrided, 1.625" 'S' big end journal.
For 1300cc block..... Order as C-AEG478
 - e. 81.33mm stroke EN40B, nitrided, for 1300cc block with 1300cc big end journal diameter, = 1.7497" standard..... Order as C-STR931
 - f. 81.33mm stroke EN40B, nitrided, for 1300cc block with 'S' big end journal diameter, = 1.625" standard..... Order as C-STR932
 - g. Same as C-STR932 but without primary gear circlip groove for special applications..... Order as C-STR933

Future forged EN40B crankshafts will be mass centre balanced and benefit from latest technology in having leading edge chamfering on the crank webs, which helps reduce whip and resistance at high rpm giving smoother running and balancing properties.

Cranks for the short stroke 'S' are available to order only, and are cut from a steel billet as the forgings are no longer available.

- 1071cc 'S' steel billet crank, stroke length 68.26mm... Order as C-AEG170
- 970cc 'S' steel billet crank, stroke length 61.91mm... Order as C-AEG329

BORE/STROKE CAPACITY COMBINATIONS IN CC

	.020	.040	.060	73.5mm	74mm
76mm	1209	1226	1243	1290	1308
79mm	1256	1274	1297	1341	1359
81.33mm	1293	1312	1330	1379	1399
84mm	1336	1355	1374	1425	1445
86mm	1368	1387	1407	1459	1480

Thrust washers

When refitting crankshafts, thrust washers should always be checked and replaced. Available in standard and plus 3 thou only in an engine set of 4.

- 2 a for 1275 standard..... Order as AEW2136
- b for 1275 at 3 thou oversize Order as AEW2136-003
- c for 998 standard size..... Order as AEW2122
- d for 998 at 3 thou oversize Order as AEW2122-003

As many as possible of our engine parts are supplied by Federal Mogul one of the worlds largest suppliers of automotive components, who purchased Vandervell, Glacier, Payen and AE Hepolite. All of these old names are synonymous with the BMC/ Leyland A series engine and we have carried on the tradition.



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Crankshafts, Bearing & Pulleys



POWERTRAIN

End & Main Bearings



3. Our main range of performance engine bearings are now Federal Mogul (who owned Vandervell) who market them under their AE brand name. All bearings stamped with AE part numbers on the bearing (e.g. AE2783) are all manufactured in copper lead material. The composition of the material is the technical equivalent of Vandervell VP2, Glyco 40, Clevite 77, Federal Mogul H24 and Glacier SP. These materials are all commonly used for engine bearing manufacture and will perform the same.

The bearing has an overlay of 0.025mm Lead and Tin in the bore. In addition to this there is a tin flash of approx. 0.001mm over the bearing surface. This gives a silvery white appearance, which may differ from some manufacturers. This has a dual role:

 1. As a sacrificial surface to reduce pickup on dry start after new bearings have been fitted.
 2. It gives additional protection against rust, during storage.

Some manufacturers do not apply tin flash and the bearing, in this case will have a dull grey finish in the bore and will have a plain steel finish on the back.

* Please state oversizes when ordering bearings.

- a. Big ends 850/998/1100 and Cooper 'S', 1.625" diameter, available in std/10/20 only..... Order as AEB572
- b. Big ends 1275cc 1.749" diameter, available in std/10/20 only..... Order as AEB91306
- c. Mains 1300cc and all 'S', available in std/10/20 only..... Order as AEM91120
- d. Mains 1300cc A-plus, available in std/10/20/30 only, with centre locating tab..... Order as AEM91886
- e. Mains 998/1100cc, available in std/10/20/30/40 only..... Order as AEM3314
- f. Mains 998 A-plus, available in std material only in std/10/20 only, with centre locating tab..... Order as AEM3427

Pulleys, Belts & Dampers

For high performance engines an efficient crank damper is a necessity to reduce failure. The standard damper commonly used is barely adequate for the standard engine, under certain conditions. Mini Spares have reproduced the original 'S' damper and pulley - far superior to the standard item. The damper ring can be bolted directly to the toothed belt crank pulley, or used with the original 'V' belt crank pulley.



4. Damper ring. For crank pulley... Order as 12A367
5. Crank pulley..... Order as C-AEG454
6. One piece damper pulley as fitted standard.
 - a. Single groove V-belt pulley..... Order as AHU1878
 - b. Latest Poly Vee belt pulley as per Twin points 1997on..... Order as LHF100130
7. Original ST Works locktab for use with original hexagon bolt and split pulley (numbers 4&5.)..... Order as C-AHT146
8. Consistent and effective crank damper retention has long been a problem on the 'A' series engine. This is mostly due to a short retaining bolt, which can become loose. The socket cap head bolt with extended threads and a large washer eradicate this problem and allow further spacing of the pulley..... Order as C-AHT147
9. The Fisher Friction plate damper Poly V Kit helps eliminate some of the harmonic vibrations more effectively than the standard rubber isolated damper..... (see page 18 for details) Order as C-AEA750



Main Straps, Con Rods & Cam Keys 13

Main straps



On all performance 'A' series engines it is essential to ensure accurate and as near permanent location of the centre main of the crank as possible. Movement allowed here, especially at sustained high rpm levels, can cause spun bearings, crank or main cap breakage with severe or mortal damage to the engine. We, therefore, offer a range of strengthening products, plus 'S' main bearing studs and nuts.

1. 4 bolt steel centre main cap for large bore engines (not 'S'). Ultimate centre main location. Essential for all stroked engines. Needs line boring, and two extra holes drilling in the block and tapping 7/16UNF. The thrust faces are part machined for final finishing whilst the line boring is being done. Comes with correct length high tensile bolts. Bolts on one way only so take care to read instructions. **Order as C-AGA619**



2. a. Steel centre main strap for 1275cc, non 'S' large bore engines. Comes with longer high tensile bolts. Main cap top needs machining flat. No other modifications required. **Order as CMS13**
 b. Steel centre main strap for small bore engines. Comes with longer high tensile bolts. Main cap top needs machining flat. No other modifications required. **Order as CMS10**
3. a. 'S' main stud set (6 studs, 4 short & 2 long). Can be used on non 'S' blocks, but cap locating section on stud may need to be shortened by 2.5mm to avoid fouling bearing cap. **Order as AEG323**
 b. 'S' centre main strap (6 studs, 4 short & 2 extra long) for centre main and strap. **Order as AEG323L**
4. Special 'S' mains nut, sold as a set of 6 **Order as C-AJJ4013**

Connecting Rods and Bolts



As the Cooper 'S' con rod has not been produced by BL for many years, we have had them reproduced, faithful to the ORIGINAL specification - including material type, EN24V. These are the strongest production 'A' series con rods produced.

5. a. 1071cc and 1275 'S' rod 5.75" centres. **Order individually as AEG624**
 b. 970 'S' rod 5.875" centre length **Order individually as AEG309**

Inconsistent manufacture has forced us into producing our own 'S' rod bolt. These are made in a higher grade material and to specific tolerances, including the thread grade. Poor threads vastly reduce torque accuracy causing premature bolt failure.

6. Mini Spares direct replacement hi-grade 'S' big end bolt. Torque up to 40-42lb ft. **Order individually as C-AEG519**
7. Hi-grade 1300cc type big end bolt set. Torque up to 38-40lb ft. **Order set as C-STR317**
8. The Cooper 'S' big end nut is now in all metal self locking material **Order individually as AEG147**
9. Alternative multi-point nut for 'S' big end bolt - ex Jaguar nut. **Order individually as EAC5541A**
10. Shouldered big end nut for 1300cc rod bolts. Give better clamp down than standard 1300cc type **Order individually as CAM6263**

Minispares Monte-Carlo Car



This group A FIA regulated car was originally prepared in 48 hrs using Mini Spares parts to replace a car stolen in transit on its way to compete in the 1994 Monte-Carlo Rally. Keith Bird with Robert Dyson (two amateurs, i.e. not paid) took it on the 1996 Monte-Carlo Rally where they became one of 2 Minis to be the first ever Minis to actually finish the gruelling event since 1968. The original 1968 winning Mini was disqualified for lighting infringements.

Sponsored Mini Spares Racers



Steve Young
Car prepared with Keith Manning

8. Port Head specialist & former employee of C.A. Abington Works

Bill Richards

Cam Keys Offset & Standard



To aid accurate timing when using non adjustable timing gear systems, there is a range of proper CNC machined offset cam keys available. These come in 1° increments up to 9°. One tooth round on the gear represents 13° of cam timing, so if you are more than 9° out move the cam gear one tooth in the required direction and use the keys the other way round as they are bi-directional. They are available individually.

11. Standard camshaft key, always replace when fitting a new camshaft. **Order as WKN505**
12. Offset camshaft key, represents 1° offset. Change the number to order the required key, (ie. for 3°, WKN3 OSET). Available from 1° to 9°. **Order as WKN1 OSET for 1° etc.**
13. Crankshaft timing gear key. **Order as 6K836**
14. 360° Protractor for timing camshaft **Order as C-AJP337**



Kent Cams

All Kent Cams are now supplied as A-plus slot drive type.

- ROAD.** Excellent urban cam, pulls from very low down, increases low, mid and top end in nearly all engines. Smooth idle, and good economy. Rev band up to 6,000 rpm. Order as MDM256
- FAST ROAD.** Brilliant all round performance road cam. Smooth idle, pulls from around 1,200 rpm. Small gain in low end, big increase in mid and top end. Unbeatable for genuine fast road use. Rev band 1,200 rpm to 6,500/7,000 rpm. Order as MDM266
- ROAD.** Single point injection only, mild road cam. Order as MDM274
- ROAD/RALLY.** Slightly lumpy at idle, especially in small bore units. Strong mid and top end power. Rev band 1,500/7,000 rpm. Order as MDM276
- RALLY.** Hottest road useable cam. Not a good traffic cam. Lumpy idle. Order as MDM286
- RACE.** Needs free flowing exhaust manifold and system, requires a high compression ratio best with medium to long inlet manifolds. Mid and top end power only. Gives very good results when twin SU's have to be used. Rev range 3,250-8,000/8,500 dependant on build. Order as MDM296
- FULL RACE.** Out and out race cam. Needs fully prepared engine to give best results. Rev range 4,000 to 8,500/9,000 dependant on build. High compression ratio also required, 12:1 plus Order as MDM310

Kent Scatter Pattern Cams

This selection of cams are the very latest supercams available for the 'A' series engine. Their design gives more torque, more power and more usable rpm than their equivalent single pattern cams. Particularly when a single Weber on a short inlet manifold is used. Current state of the art technology.

- STREET CAM.** Single point injection only Order as MDM274SPM
- ULTIMATE STREET CAM** Order as MD286SPM
- EXCELLENT RALLY/AUTOCROSS/RALLY CROSS CAM.** Gives very strong mid range and top end power. Needs high compression ratio and non restrictive exhaust manifold and system Order as MD296SPM
- RACE CAM.** Needs a high compression ratio. Not as fussy about exhaust system. Effectively a 90's engineered 649. Gives wide power band, very good results in standard stroke race 1275cc 'S' Order as MD290SPM
- ULTIMATE RACE CAM.** Needs fully prepared engine for good results - high compression ratio, high flow head, exhaust manifold and system. Excellent for short stroke circuit/tarmac engines. Order as MD310SPM

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Cams, Bearings and Lube



POWERTRAIN

Early 850/998/1100cc used 3/8" wide lobe pin drive camshafts. We recommend you use A-plus camshaft with stronger 1/2" lobe widths and use corresponding sureflow oil pump. Always state type of oil pump drive that is required when ordering.

Mini Spares 'Evolution' Cams

Also available are Mini Spares own "Evolution" cams, designed for the broadest range of power on any 1275-1380cc whilst returning decent fuel economy and does not need hi lift rockers. Used on all our 1380cc engines (see ENG001 on page 7). In A-plus only, on an exchange basis Order as EVOLUTION001

- 998cc Cooper cam** is a classic and available. We can do most half inch pin drive cams ground from new blanks if required. Order as AEA630

Cam Bearings

It is also essential to fit cam bearings in any 850cc block being used in competition to prevent seizure of the cam. The block will need to be line-bored by a competent engineering company to enable fitment.



Housing diameters should be
FRONT 1.7955" to 1.7965",
CENTRE 1.753" to 1.754",
REAR 1.503" to 1.504", FRONT is the water pump end.

- Large bore cam bearing set.** Has slightly wider bearing at oil pump end than the small bore block. Order as AEC3063
- Small bore cam bearing set,** but could also be fitted to large bore block Order as AEC3046

MPZ Engine Build Lubes

- MPZ Engine Assembly Lube.** Favoured by professionals for press fitting piston wrist pins, pre lubing bushes, plain bearings, roller bearings, journals and gears. Prevents scuff, seizure, wear, rust, waterproof and corrosion proof Order as part KCLUBE (4 flz)



- MPZ Cam Lube.** As above but converted into a non-melting gel type grease. These features protect cam lobe, lifters and valvetrain components from scuffing and wear during initial start-up. Also useful for Mini oil pumps to stop drain back on start up. Order as KCLUBE1 (1 oz)

CAMS (MEGADYNE RANGE)

The timing figures are quoted in degrees inlet period/exhaust period - inlet opens before top dead centre/closes after bottom dead centre, exhaust opens before bottom dead centre and closes after top dead centre.

	POWER BAND	TIMING IN/EX IN DEGREES	DURATION IN/EX	LCA*	LIFT STD RATIO	CAM LIFT
MDM256 Mild Road	1000-6000	21-53 / 53-21	254 / 254	106	.320 / .320	.263/.263
MDM266 Fast Road	1000-6500	24-56 / 61-29	260 / 268	106	.320 / .330	.263/.270
MDM274 Fast Road	1000-6000	12-56 / 69-25	248 / 274	112	.348 / .343	.258/.281
MDM276 Read Rally	1500-7000	29-61 / 66-34	270 / 280	106	.360 / .380	.293/.315
MDM286 Rally	2000-7500	34-66 / 71-39	280 / 290	106	.388 / .400	.315/.324
MDM296 Race	3250-8000	39-71 / 76-44	290 / 300	106	.400 / .420	.324/.340
MDM310 Full Race	4000-8500	49-81 / 81-49	310 / 310	106	.420 / .420	.340/.340
MDM315 Full Race	4500-9000	53-81 / 81-53	314 / 314	104	.428 / .428	.347/.347

MEGADYNE SCATTER PATTERN CAMS

	POWER BAND	TIMING NO. 1 & 4 IN / EX	TIMING NO. 2 & 3 IN / EX	LCA*	LIFT STD RATIO	CAM LIFT
MD286SPM	2000-7500	34-66 / 71-39	37-63 / 71-39	106	.388 / .400	.315/.324
MD296SPM	3250-8000	39-71 / 76-44	42-68 / 76-44	106	.400 / .420	.324/.340
MD290SPM	3500-8250	41-69 / 73-37	47-63 / 67-43	103	.395 / .395	.383/.383
MD310SPM	4000-8500	49-81 / 81-49	52-78 / 81-49	103	.420 / .420	.340/.340

All camshafts are A-plus slot drive, ensure you obtain the correct oil pump. Valve lifts are actual lifts achieved when fitted. All valve gap clearances are 0.16" (0.40mm)

Upgraded Duplex Gear Kits



Fitment of an upgraded cam drive system is essential when building a performance orientated engine. Timing scatter induced by the standard set up can reach up to 15° once the single row chain has stretched, which it does after only a few miles.

This scatter not only affects the cam timing, but also the ignition and the distributor being driven by the camshaft. Power loss suffered by this phenomenon is substantial.

Replacing the standard single row (simplex) system with a dual row (duplex) system greatly reduces the problem, use of a tooth belt system all but eliminates it. The belt system vastly reduces valve train noise and also helps damp out some of the odd harmonics generated by the 3 main bearing 'A' series engine.

Dyno tuning the engine is the only way to optimise cam timing to achieve maximum BHP possible.

It is also extremely important to time any cam in to its required setting to obtain maximum performance, especially performance cams. The 'dot to dot' method can, because of manufacturing tolerances, be out by as much as 10° or more. Anything over 2° out and power suffers; more in small bore engines. In race engines you probably lose 1 hp for every degree the cam timing is out, more if over 6°. However, all manufacturer figures are really a close guide line. Dyno tuning the engine is the only way to optimise cam timing.

1. a. Budget standard cast duplex gear and chain set, road use only.
Gears - original A.E. manufacture Order as C-AJJ3323
b. Budget lightened cast duplex gear and chain set. Not recommended for rally/race application Order as C-AJJ3324
2. Ultralight non-adjustable steel duplex gear and chain set Order as C-AJJ3325
3. Vernier adjustable steel duplex gear and chain set. Uses the dowel adjustment system similar to the belt drive kit. Order as C-AJJ3327
4. Duplex chain Order as 2H4905

NOTE: The engine front plate to main bearing cap screw holes need to be countersunk, and two AEA687 countersunk screws used to clear the chain. These are the original Allen key type of screw which are supplied in the steel kits and Phillips type head screw are supplied in the budget kits.

Belt Drive Kits

Plastic Case

Rotaslide type 5



Belt drive kits help to restore power loss caused by original timing gear wear and stretching. Helps reduce noises associated with valve train and dampens out certain harmonic noises generated by the three main bearing 'A' series engine. Also preserves exact timing where anything over 2° out causes power loss. The kit available contains everything to replace timing gears and cover.

Mini Spares latest belt drive kits have a plastic dust cover which has a plinth section for company logos. The lower crank pulley boss is upgraded to 38mm wide for extra strength. Two options for crank pulleys are used. Rotaslide screw adjustment or dowel adjustment.

5. Rotaslide Belt drive kit with screw type adjustment Order as C-AJJ3326RACE
6. Dowel type belt drive kit, where interrelated holes between cam boss and cam gear are located by a dowel to give exact timing that will never move, is in fixed increments of 2° Order as C-AJJ3328RACE
7. Replacement belt for above Order as BELTBELT
8. a Replacement small oil seal for 32mm wide gear. Order as BELTSEAL1
b Replacement small oil seal for plastic case type with upgraded 38mm wide gear Order as BELTSEAL3
9. Replacement large oil seal Order as BELTSEAL2

Slave Cylinders



10. For Long arm pre vertto genuine use GSY110
11. For Long arm pre vertto non-genuine use GSY110MS
12. Seal repair kit for GSY110 use GRK4008
13. a. For Short arm vertto use GSY118
b. Seal repair kit for GSY118 use GRK4001

Clutch Release Bearings & Arms



14. Long Pre Vertto clutch arm
a. Genuine Rover Order as 22A2204
b. Mini Spares own version Order as 22A2204MS
15. Plunger. Order as 22A180MS
16. Short Vertto clutch arm Order as DAM5355
17. Vertto Plunger. Order as DAM5353
18. Release Bearing, for use with long clutch arm. Order as GRB201
19. Release Bearing, for use with short clutch arm Order as GRB239

Mini Spares Flywheels

Our continuous research and development programme has often brought to light some intriguing and unexpected bonuses. Some time ago we started producing our own ultralight steel flywheels as we were suffering all manner of problems from the then only available supplier. However, recent testing on harmonic balancers brought to light an odd frequency at high rpm - which was being developed by the flywheel. We isolated the problem, and now have redesigned our flywheel to be near perfect! It is now more symmetrical, and evenly balanced. The flywheel comes with the required distance pieces for mounting the straps. It is highly recommended to use 3 clutch straps per location to minimise stretch on high performance engines.

..... To order the straps individually use part number 2A3658

Lightened Steel Flywheel



For the road we have developed a lightened steel flywheel. This has been produced because the ultra light version is far too light for most fast road applications, producing an uneven and lumpy tick-over when high lift cams are used. Much lightened standard cast ones are dangerous. The steel flywheel also provides a much harder clutch surface. Again, the relevant distance pieces are provided.

Those stuck with the verto flywheel assembly for financial reasons need not despair. We have developed a replacement outer flywheel section in steel that is nearly 4lb lighter than the standard item.

1. a. Ultra light steel flywheel. Order as C-AEG619.
b. Ultra light flywheel with ring gear for pre-engaged starter. Order as C-AEG620.
2. a. Light steel road spec flywheel. Order as C-AEG421.
b. Light steel road spec flywheel, with ring gear for pre-engaged starter. Order as C-AEG420
3. Light steel outer section for Verto type clutch assemblies identified by a short clutch arm
a. Carburettor models (pre injection) type of Verto flywheel Order as C-AEG422

For Injection models, two types are produced with differently machined reluctor rings to suit either Single or Twin point engines, which both require a specific type of clutch. The Injection flywheels are not compatible with the original pressure plate. Along with AP consultation this flywheel was designed specifically to use their best clamping pressure plate made to date, GCC679 (HE3864). This pressure plate is also in clutch kit GCK151AF only. (IF YOU USE THE WRONG CLUTCH THE CAR WILL NOT START) It is best to use C-AHT596 competition clutch plate.

- b. for single point injection models Order as C-AEG423
- c. for twin point injection models Order as C-AEG424

Comp. Lightweight Clutch Backplate

4. Out of production for many years has been the sought after 22G270 'S' clutch back plate - the one everybody used to call 'steel' because of its strength. It was actually cast in a very high grade iron, the exact same material we have used in our own lightened back plate. This item is cast fairly light, but can be lightened further if required.

Competition light weight clutch back plate Order as C-AHT230



FLYWHEEL WEIGHT COMPARISONS

	KG	LB
Ultra light steel race flywheel	3.80	8.38
Steel Verto outer section only	4.01	8.84
Steel light weight fast road spec.	5.00	11.02
Verto standard iron outer section only	5.82	12.83
Safely lightened standard iron flywheel	6.06	13.36
Standard iron flywheel unmodified	7.58	16.71

NOTE: All above are with ring gears.

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Flywheel & Clutch



AP Competition Clutch



The AP clutch components we supply are of the highest quality, used regularly by hundreds of competitors all over the world.

5. a. Standard diaphragm for all pre verto types Order as GCC103

b. Orange clutch diaphragm

..... Order as C-AEG481

c. Grey clutch diaphragm

..... Order as C-AEG482

d. Double grey clutch diaphragm for race use only with sintered clutch plate

..... Order as C-AEG483

6. a. Rally/race clutch plate

..... Order as C-AHT596

b. Standard turbo/fast road new style clutch plate, good up to 7000RPM.

..... Order as GCP204AF



7. AP Heavy duty sintered paddle plate

..... Order as C-AHT598

It is recommended that only the grey diaphragm is used with the sintered paddle plate.

8. Mini Spares latest design/shape. 5 finger type with sintered pads is available

..... Order as C-AHT597



Clutch Kits



9.3 Piece Clutch Kits AP stands for Automotive Products the original manufacturer for all Mini clutches until Valeo were introduced to the 1275cc Verto range from 1990 on

9. a. 3 piece diaphragm type AP clutch kit. Pre Verto ... Order as GCK100AF

b. 3 piece diaphragm type clutch, but with Valeo plate, Pre Verto

..... Order as GCK100MS

10. a. 3 piece AP clutch kit with 180mm wide plate, 190mm cover, Verto to 1990

Order as part number GCK151AF

b. 3 piece Valeo kit with 180mm wide plate, 190mm cover, Verto to 1990 ... Order as GCK151MS

c. 3 piece Valeo kit with 190mm plate, 190mm cover,

Verto as standard from 1990 on including all injection models

..... Order as GCK152MS

d. Flywheel & clutch assembly with 190mm plate, for twinpoint 1996 on

..... Order as GCU90123AF

..... Order as GCU90123AF

..... Order as GCU90123AF

Clutch Plates

11. a. Verto 190mm wide clutch plate, changed to Valeo type for 1275cc from 1990 on

..... Order as GCP90832AF

b. Verto 180mm wide clutch plate up to 1990

..... Order as GCP271AF

c. Diaphragm type, Pre Verto clutch plate from 1959 on

..... Order as GCP204AF

CLUTCH BACK PLATE WEIGHT COMPARISON

	KG	LB
Mini Spares SG iron lightened back plate	1.62	3.56
Quinton Hazel Triangular back plate	2.12	4.66
Standard grey iron back plate unmodified	2.61	5.74

Engine Stabilisers

1. The original ultimate engine stabiliser kit complete with bushes. This is the left hand drive version which bolts to the thermostat housing and the smaller end to the bulkhead. The bulkhead end needs to be drilled and the triangular plate with studs, as shown, fits up through the master cylinder box area inside the car, on the underside of the bulkhead area you have drilled.



a. The kit as shown with the three thermostat holes for 1275cc cylinder heads and L/H/D without sandwich plate. Order as MSSK1302

b. A kit for late L/H/D 1275cc cylinder heads with a sandwich plate fitted under the thermostat housing as per all cars from 1992 on. This is not shown but fits as per other L/H/D types. Order as MSSK1303

2. a. Ultimate engine stabiliser for the latest 1275cc cylinder heads where a sandwich plate is fitted under the thermostat housing. Fits all R/H/D cars from 1990, except twin-point. Order as MSSK1301



b. As above in Stainless Steel Order as MSSK1308

3. a. Ultimate engine stabiliser - Painted black. This is the original ultimate engine stabiliser for 850, 1000 and 1100cc cylinder heads. Fits from the thermostat housing and end manifold stud. The other end bolts to the bulkhead where the heater hoses go through. Order as MSSK1000



b. As above in Stainless Steel Order as MSSK1306



- c. L/H/D kit for all non 1275cc heads, that is 850,998, 1100 which uses only two thermostat holes, because of its different position. Order as MSSK1000L



4. The original ultimate engine stabiliser fits all 1275cc R/H/D cylinder heads pre 1990 without a sandwich plate. Fits to the thermostat housing and end manifold stud and also onto the bulkhead where the heater pipes go through.



a. In black Order as MSSK1300
b. In Stainless Steel Order as MSSK1307

Adjustable Engine Stabiliser

- 5 Adjustable Engine stabiliser bar allowing engine to be positioned at different angles to allow the fitting of turbos, oversized filters, or when needing extra clearance, this adjustable bar is essential. Order as MSSK1305



Bolt Repair Stabilisers

6. If any of the bolts from your original engine stabiliser bar break off in the block and can not be removed, the following four kits should rectify the problem.



The engine stabiliser bar (21A1109) shown in the picture is not included but shown as a guide only. All other parts and instructions are included.

- a. If only the longer engine block bolt that goes through the bushes is broken and there is no breather fitted to the clutch housing. Order as MSSK002
b. If both the engine block bolts are broken and no breather is fitted on the clutch housing. Order as MSSK004
c. If only the longer engine block bolt that goes through the bushes is broken and a breather is fitted to clutch housing (1275cc only). Order as MSSK003
d. If both the engine block bolts are broken and a breather is fitted to the clutch housing 1275 only. Order as MSSK005

Gearbox Stabilisers



7. Left hand lower engine/gearbox stabiliser that fits to the lower front gearbox case studs/bolts and goes rearward to bolt on the rear leg of the subframe, where one hole will require drilling. Order as MSSK001
8. Right hand lower engine/gearbox stabiliser fits to the lower clutch casing/flywheel case studs and then goes rearward to bolt on the rear leg of the subframe, where one hole will require drilling. Order as MSSK002

Bushes

9. a. An alternative to rubber bushes on the engine steady bar are the polynylon type, which are more resistant to heat, oil, water and dirt. The kit includes four bushes and a new spacer for the engine end Order as C-STR630
b. As above but made from a harder poly for race/competition use Order as C-STR630RACE



10. Original rubber bush and tapered collar kit. (4 of each)



- a. with metal inserts Order as SBK2
b. with plastic inserts Order as SBK1

11. Original rubber bush Order individually as CRC5329



12. Single type engine steady bar bush as fitted on twin point, 1996 onwards. Great Alternative For all Minis. Order as KKF101320

Engine Mounts

13. a. Engine mounting, genuine Order as 21A1902
b. Engine mounting, Mini Spares budget. Order as 21A1902MS
c. Automatic engine mounting, left hand Order as 22A1018
d. Automatic engine mounting, right hand Order as 22A917



All engine mounts are sold singularly

14. Mini Spares engine mounting, has captive nuts for easy-fit Order as 21A1902ST
15. Two piece poly engine mounting using pin to secure halves, making removal and replacing engine very easy. Order as 21A1902POLY



*Supplied in black or yellow as stock permits

Comp. Engine Mountings

16. All metal competition engine mountings for racing only. Sold individually. Order as C-19G3256



Crank & Ancillary Pulleys

Alternative ancillary drive systems are available. For race use where the alternator is not used there is a toothed belt drive system with large diameter or standard diameter water pump pulley that eliminates problems caused by conventional belts being turned or thrown through misalignment. The crank pulley is made to accept the 12A367 damper ring as shown on the crankshaft page, which is not included but advisable for most applications to reduce crankshaft failure.



A tooth belt drive kit for the alternator is also available with an oversized alternator pulley. Running a secondary belt from the water pump pulley to the alternator ensures that if the charging system belt goes, the car can still be driven.

1. Crank pulley for all tooth belt drive kits Order as C-AEG455
2. a. Standard diameter tooth belt drive alloy water pump pulley with 28 teeth giving 0.87 to 1 ratio. Order as C-AEA477
- b. Same as C-AEA477 above water pump pulley with 28 teeth, but in steel for use in dirty, dusty conditions where the alloy pulley can wear quickly. Order as C-AEA478
3. Tooth drive fan belt for number 1 and number 2 Order as C-BELT255
4. Large diameter tooth belt drive alloy water pump pulley with 36 teeth giving 1.13 to 1 ratio Order as C-AEA476
5. Tooth belt fan belt for number 1 and number 4 Order as C-BELT270
6. a. Dynamo or alternator tooth belt pulley for 15mm fixing hole pre 1985. Order as C-AEA479
- b. Alternator tooth belt pulley for 17mm fixing hole 1985 on. Order as C-AEA480
7. Tooth belt for alternator to standard 28 teeth water pump pulley Order as C-BELT210
8. Tooth belt for alternator to large 38 teeth water pump pulley. Order as C-BELT225

TOOTH BELT DRIVE FOR CRANK TO WATER PUMP USE FOLLOWING PARTS

Crank Pulley	Water Pump Pulley	Fan Belt
C-AEG455	ALLOY 1.13 TO 1 RATIO	C-BELT270
C-AEG455	ALLOY 0.87 TO 1 RATIO	C-BELT255
C-AEG455	STEEL 0.87 TO 1 RATIO	C-BELT255

TOOTH BELT DRIVE FROM WATERPUMP TO DYNAMO OR ALTERNATOR

15mm Hole Pulley Pre 85	17mm Hole Pulley 85 on	Fan Belt
C-AEA479	C-AEA480	C-BELT225
C-AEA479	C-AEA480	C-BELT210
C-AEA479	C-AEA480	C-BELT210

For complete kit follow the line across choosing pulley for electrics required and corresponding fan belt.

18

Belt Drive & Pulleys



POWERTRAIN

For improved drive for fast road applications where an alternator is used, a poly 'V' system is available. This is the latest design of ancillary drive fitted to most modern production cars, including the 1997 Mini with a front mounted radiator.

9. a. Poly 'V' drive system includes water pump pulley, 15mm hole alternator pulley, new crank damper pulley and drive belt. Pre 1985

..... Order as C-AEA538
b. As above but with 17mm hole alternator pulley, 1985 on. for A127 type alternator. Order as C-AEA538A

10. Spare poly 'V' belt for C-AEA538 Order as C-AEA540

Pressed steel water pump pulleys

11. a. Large diameter 4.75" water pump pulley as fitted from 1980 on.

..... Order as CAM6408
This uses GCB10838 fan belt. If no charging system is used then fan belt GCB10725 should be fitted.

b. Original 3 7/8" (3.875") pressed steel water pump pulley

(not shown) Order as CAM6239
This uses fan belt GCB10813. If no electrical charging system is used then fan belt C-AEA539 should be fitted.

12. a. Large 5" diameter alloy dynamo/alternator 'V' pulley is available for reducing the speed of the charging system to prevent overcharging, on high rpm engines Order as C-AEA535
- b. When using C-AEA535 with original water pump pulley CAM6239 use GCB10863 fan belt
- c. When using C-AEA535 with CAM6408 pulley, use GCB10900 fan belt

Friction Damper Kit

How long do the main bearings on your race engine last? One race? Two or three?

They should last a season!

Engine harmonic vibration can easily destroy the bottom end of your engine.

In the USA most race engines are protected by friction dampers or harmonic balancers, as they are usually known. Harmonic balancers are far superior to rubber isolated dampers, but up until now they have been comparatively rare on these shores. Now Mini Spares are able to offer the Fisher harmonic balancer kit for the A-Series engine.

A harmonic balancer is not limited to a predefined RPM band. The friction plates adjust as the engine RPM changes to provide for total control over the entire RPM range. (The standard rubber damper will simply absorb shock and vibration; it does not directly control the motion of the engine). An engine's crankshaft bends and twists as each cylinder fires. The harmonic balancer will prolong engine life and improve performance by controlling destructive crankshaft vibrations. Crankshaft vibrations also affect valvetrain and ignition timing, damage timing chains and gears, loosen fasteners, and fracture engine components.

Every effort has been made to make this kit as compact and lightweight as possible by using a ribbed Poly-V belt drive system with lightweight aluminum water pump and alternator (or idler) 15mm hole pulleys making it suitable for all race applications and high-end modified road cars.

Since all the pulleys are replaced the Mini Spares Harmonic Balancer will fit all pre '97 A series engines

..... Order as C-AEA750



Poly 'V' Profile



High Capacity Water Pumps

SMALL IMPELLER



1a

GWP 132

LARGE IMPELLER



1b

GWP 134



2

GWP 187

Use of high capacity alloy water pumps help to circulate a greater volume of water. Cavitation reduction is achieved by using a large diameter water pump pulley as originally fitted to the 'S' and reintroduced on the A-plus engines, further improving cooling. It is necessary to check clearances in the block as well as between the pump and the cylinder head. Early small bore blocks do not have the water jacket machined around No.1 bore for the deeper impeller because if a lot of material has been machined from the head face it may foul the pulley. If the 12G940 head is fitted to a small bore engine, it is necessary to modify the top edge of the water pump otherwise the head will sit on this and not seal properly. Look to get at least a 1/16" gap.

- 850cc and all early cars where large impeller will not fit. Order as GWP132
 - High capacity alloy water pump - with by-pass hose take off. Order as GWP134
- High capacity alloy water pump - no by pass hose take off. Order as GWP187
 - High capacity with one bolt hole less, Twin points only. Order as GWP188

Kevlar[®] Hoses

- Long lasting
- Hi strength
- Low Heat transfer
- Wear Resistant

Kevlar[®] is a high tech aramid fibre produced by the DuPont Co in USA. Kevlar fibres are evenly dispersed throughout the hose where they are bonded to the rubber, imparting considerable strength.



- Top Hose Cooper 1275cc pre 1990 not Clubman. Order as GRH247KEVLAR
 - Top Hose Clubman. Order as GRH469KEVLAR
 - Bottom hose pre 1990 not Clubman. Order as GRH240KEVLAR
 - Clubman bottom hose. Order as GRH468KEVLAR
 - Half inch heater hose. Sold per metre. Order as GRH1006KEVLAR
- For MK1/2 Mini the Clubman top hose can be cut to correct size.

Standard Rubber Hose

If you require the standard rubber hose use the KEVLAR hose part number less the word 'KEVLAR'

- Standard rubber hose without heater take off for racing or warm climate where no heater is fitted. Order as GRH802



7

Heater Valves

- Heater Valve. Bolts directly onto cylinder head. Pre 1989.
 - Straight (not shown). Order as 13H5506
 - Angled. Order as ADU9102
- Plastic Body In-line Heater Valve. Order as JJB10011
- Plastic Body Heater Valve for twin point cars only. Order as JJB100260



8b

9

10

Blue Silicon Hoses

The next step up from Kevlar is the blue silicon type which not only brightens up the engine bay, but also withstands higher temperature and pressure. The bottom hose has been designed to fit any pre-1999 Mini where the heater valve is bolted to the cylinder head. Later cars had the in-line plastic valve and different plumbing. The two ends of the bottom hose and its main body were lengthened to help fitment as follows:

The top end helps to reposition both outlets and clear most known ancillaries, especially tappet cover breathers. The bottom end of the hose is longer to fit all known variations of the radiator outlet pipe angles, and clear all timing cover breathers or the Clubman shaped car where the radiator was positioned further away from the engine. The top hose will fit all 1300cc with 1" bore thermostat housing with or without sandwich plate, and cuts to size for everything.

Mini Spares Silicon Hose Kit. Instructions included with kit. Order as C-GRH002
ALL THESE FOUR HOSES IN THE KIT ARE AVAILABLE SEPARATELY

- Bottom Hose. Order as C-GRH240
- Top Hose. Order as C-GRH247
- Heater Hose - 1 metre. Order as C-GRH1006
 - Heater Hose - 1.2 metre. Order as C-GRH1007



11

12

13

Radiator Brackets

- 'S' top radiator bracket. Required when fitting 1300cc based engines in the Mini, (not Clubman). Available in stainless steel for better engine bay presentation. Order as 12G617S
 - Original in black, as per Cooper 'S'. Order as 12G617
 - 1275GT top radiator bracket. Order as 12G2453
- Top radiator bracket for 1990-96 Minis in stainless steel. Order as PCU10135S
 - Top radiator bracket for 1990-96 Minis in black. Order as PCU10135



14

15

Thermostats & Blanking Sleeves

Removal of the thermostat also helps to reduce engine temperature where engine cooling is a problem, although a thermostat blanking sleeve must be fitted to retain correct water circulation around the entire head. Failure to do so will cause overheating around 3 and 4 combustion chambers - with obviously disastrous results. If the blanking sleeve is used, it is necessary to blank off the by pass hose between head and water pump. Large impeller water pump GWP187 has by-pass outlet drilling omitted from alloy casting. The ideal temperature commensurate with optimum power output is 65-70°C. However, this is not practical for road applications. The lowest thermostat available is 74°C and should be the lowest one considered. 82°C is a much better choice, with an 88°C alternative for winter driving and for those with economy as the main consideration. The higher the temperature the more thermally efficient the engine becomes. It is possible to run thermostats with the troublesome by-pass hose blanked off - 4 or 6 1/8" holes should be drilled around the periphery of the thermostat. For thermostat housings see page 3.

- Thermostat blanking sleeve. Order as 11G176
- 74°C thermostat (165°F). Order as GTS102
 - 82°C thermostat (180°F). Order as GTS104
 - 88°C thermostat (192°F). Order as GTS106



16



17

Radiators & Fans

- Front mounted radiator as used on the last classic twin point Minis can be adapted/fitted for race conversions - very light and small, 3" thick header tanks 11" tall, 17" wide, all including side outlets and mounting points. Order as GAD974



18



19

- Rover fitted electric fans
 - Latest electric fan as fitted to Minis with a large round location hole in inner wing- 1991-96 on, will require a sensor unit or separate switch if fitting to pre-production cars. As shown. Order as PGG10058
 - For front mounted radiator cars 1997 on. Order as PGG100890

Metal Radiators & Fans

Mini Spares only stock all metal radiators as the new plastic type have proved troublesome on Minis. Since 1980 all factory fitted radiators have been to the old Cooper 'S' specification of 3 rows of cores and 16 gills per inch, to cope with the higher compression A-plus engines. This replacement radiator is available as ARP2000. The basic problem is the lack of water capacity and all late Minis now have 5/8" bore heater hoses as opposed to the old 1/2" bore. To overcome the original problems on tuned engines or in very hot climates, we introduced a 4 core radiator in 1978 which increased water capacity by over 25% and increased cooling efficiency by a greater margin. Nowadays, with more powerful and hotter running engines we have had a special 2 core radiator unique to Mini Spares with original shape header tank developed using the latest technology and design for increasing air flow, utilising just two rows of very large cores and V shaped gills. Not only is this radiator much lighter and narrower than the 4 core, it out performs the old 4 core or any Mini radiator to date. Also available for late cars with screw-in heat sensor fitted, rather than a push fit. Beware of competitors copies of our original because professionally tested they are not the same. The 2 core radiator being lighter material can be prone to fin blockage/damage by a heavy deluge of mud or muck and is not ideal for grasstrack or Autocross. The 4 core radiator is ideal for this purpose.



1. **Four core radiator** Order as C-ARA4444
2. a. **Standard 3 core radiator** Order as ARP2000
b. **Super cool 2 core radiator** Order as C-ARA4442
c. **As above with sensor** Order as C-ARA4443
d. **Super cool 2 core radiator with drain plug** Order as C-ARA4442B
e. **All aluminum 2 core radiator (for extra hot climates)** Order as C-ARA4441
3. a. **Replacement screw in sender unit in bottom of our special radiators** Order as C-ARA4445
b. **For push-in sender, as in original Rover radiator** Order as GVS104
4. **Two blade fan** can be used as shown by crossing two blades to make a four blade fan. Produces better air flow, but noisy. Order each blade individually Order as 2A997
5. a. **Six blade metal fan** as used on export vehicles ... Order as 2A998
b. **Eleven blade plastic yellow fan** as used on home market Minis Not shown ... Order as 12G2129
6. **Complete electric fan kit** for the Mini or Clubman made by the original Kenlowe company Order as C-ARA4400
7. **Replacement temperature sender** for Kenlowe only ... Order as KLM1416



Oil Cooler Connections

8. **Oil temperature sender housing** for special requirements when you need to know the temperature of the oil. Fitted before the oil cooler it will show maximum temperature reached. After the oil cooler it will show the more important temperature of the oil feeding the bearings Order as MOCOT2
9. **2" long from bend, 1/2" push-fit BSP thread union** to fit oil cooler with 45° bend ... Order individually as MOC209
10. **1" long from bend push-fit 1/2" BSP thread union** to fit oil cooler with 90° bend, ... Order individually as MOC207
11. **1" long from bend push-fit 1/2" BSP thread union** to fit oil cooler with 45° bend, ... Order individually as MOC208
12. **Original oil cooler union** for oil filter. Supplied in complete kits Order as MOC2
13. **Original block union** for oil cooler hose. Complete kits, ... Order as MOC1
14. **Equivalent to number 12 and 13** as a kit, but with push-on ends for using oil cooler hose on special fittings in pairs only ... Order as MOC3
15. **Rubber oil-cooler hose** sold per foot. i.e. 30cm Order to length required as C-AHH8537
16. **On late type engines** with 12A engine prefix numbers the oil pipe between filter and block is sealed by oilves and known to pop out under arduous conditions. A **stainless steel pipe** for use when cooler is not fitted, which has solid unions is available Order as MOC1018



20

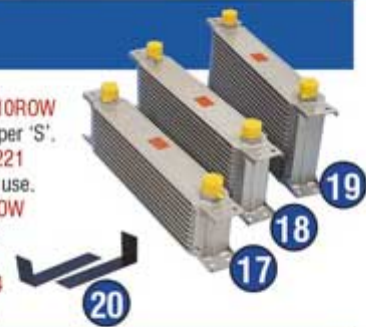
Cooling



POWERTRAIN

Oil Coolers

17. **10 row oil cooler**. Order as MOC10ROW
18. **13 row oil cooler** as fitted to Cooper 'S'. Order as C-ARH221
19. **16 row oil cooler** for competition use. Order as MOC16ROW
20. **Original oil cooler brackets** to fit on front subframe. Order individually as 21A1794 (Check clearance on latest cars).



Oil Cooler Hoses

Braided Hoses

21. **Braided oil cooler pipes**, Mini Clubman and specials usually have the longer pipe kit and the standard Mini the shorter pipe kit, all unions included for easy fitment. See chart below for part numbers



KITS AND LENGTH – BRAIDED HOSE	BLOCK TO COOLER	FILTER HEAD PIPE TO COOLER
C-AHT3 (Mini Clubman)	14"	24"
C-AHT4 (Mini)	12"	14"
MOC1016 (12A engine/1992 ON)	15"	22"
MOC1017 Pre-engage starter to '92	15"	22"

22. **Braided pipe for oil gauge**, made to the required length of 4ft Order as C-AHT9

Rubber Hoses

If a pre engaged starter is fitted (integral solenoid) the oil cooler has to be mounted closer to the alternator resulting in longer pipes. A-series engines up to 1992 had a block union size of 5/8" UNF and filter head union size of 1/4" NPT. From 1992 on, union sizes on 12A prefix engine numbers became universal at 1 1/16" UNF. The filter head is recognisable by casting part number LPX10027



KITS AND PIPE LENGTH RUBBER HOSE	BLOCK TO COOLER	FILTER HEAD TO COOLER
23 MOC 100102 (Mini Clubman)	14.5"	24"
24 a MOC 1013 (Mini)	12"	14"
b MOC 1014 (Mini 1992 On-12A engine)	15"	22"
c MOC 1015 Pre-engaged starter to '92	15"	22"

Oil Cooler Thermostat

25. **The Mocal oil control thermostat** is designed to prevent flow of engine oil until it has reached correct working temperature of about 80°C. Prolonged use of engine oil where it cannot reach its correct working temperature can cause sludge and crank case dilution, leading to excessive wear in crank bearings and cylinder bores. Fits into any convenient place where pipes can be cut and oil pipes run parallel Order as MOCOT1



Inlet Manifolds (Weber)



Following the enormous success of our SU inlet manifolds, further development encompassed a detailed look at the manifolds available for side draught (Weber) carburettors.

The steel inlet manifolds available have long been acclaimed the very best, out-performing all the alloy types by far. Unfortunately this includes the price! After flow-testing a number of randomly picked steel manifolds, the results showed that as a rule they did not meet their expectations and varied considerably - in some cases from one port to the other on the same manifolds! Despite this they were still superior to the other manifolds available.

Having set a base-line of data we have designed an alloy manifold that out-flows the steel ones off the shelf, is extremely consistent port to port, and greatly reduces port-biasing of the mixture.

The results were as follows:-
 Tested by Mike Parry at Race Techniques at 25" pressure drop.
 Bare head used flowed 124CFM.

	STEEL	MINI SPARES
3.75"	116.2 CFM	116.8 CFM
6.00"	116.6 CFM	117.4 CFM

The higher the CFM, the better the flow

The manifolds tested were all unfettled, in fact the alloy ones were straight out of the casting box. Mike tidied up very slightly the short manifold to see what happened, and the flow went up to 117.2CFM. Another benefit of the alloy manifold, is scope for modifications, which can increase flow even further. We expect the flow figures to be higher on the finish machined manifolds.

- The manifolds come complete with a spherical rod end jointed linkage, which mounts directly to the manifold to eliminate flexing. The low line of the linkage makes it ideal for Sprite and Midget applications.
 - a. 3.75" long 40/45/48 DCOE/DHLA Order as C-AHT772
 - b. 5.00" long 40/45/48 DCOE/DHLA Order as C-AHT773
 - c. 6.00" long 40/45/48 DCOE/DHLA Order as C-AHT774

Mounting Plates for Weber 40/45

- When using side draught twin choke carburettors, it is essential to mount them to the inlet manifold correctly to avoid fuelling problems caused by engine harmonics. These Swedish made Misab plates are considered the absolute best.
Carburettor mounting plate for 40/45 Weber.
 Order individually as MAG230



Steel Manifolds



- Also stocked are the steel Manifold manifolds.
 - a. A pair of split Weber manifolds, 3 1/2" long, upswept. Order as C-AHT775
 - b. 45 DCOE/DHLA, 5" long Order as C-AHT776
 - c. 45 DCOE/DHLA, 7" long Order as C-AHT776A
 - d. 45 DCOE/DHLA, 3 1/2" long Order as C-AHT777
 - e. 48 DCOE/DHLA, 3 1/2" long Order as C-AHT778
 - f. 48 DCOE/DHLA, 5" long Order as C-AHT779
 - g. 48 DCOE/DHLA, 7" long Order as C-AHT780

e., f. and g. are usually not kept in stock and are to customer's order only



- a. HS4/6, H4 twin SU manifold. 1.5" bore carb size. With narrow balance pipe . . Order as C-AEG490
 - b. HS4/6, H4 twin SU manifold. 1.75" bore carb size. With narrow balance pipe . . Order as C-AEG491

Throttle Body

- a. Throttle body standard 48mm Alloy replacement for cracked or warped plastic units Order as ABF622
 - b. Throttle body 52mm. 17% increase in choke area and a fully opening throttle disc. Best used in conjunction with other small engine and exhaust modifications but will probably require modification to the ECU for best results Order as ABF637



Throttle Cable

- ST single throttle cable, over 5" longer than standard with a nylon inner sleeve to prevent sticking. Inner cable has crimped ends to prevent fraying. Ideal for Weber or SU fittings. Order as C-AHT85



Twin Cable Linkage for Webers

- Twin cable linkage kit for Weber carburettors on any manifold that does not have its own specific linkage points such as Manifold. Ideal for racing, offering fail safe twin cables Order as LP403



Mini Spares Inlet Manifolds

Flowbench Designed Manifolds which, in standard form, outflowed everything available for testing (see chart below).



1. a. Inlet manifold for single HS4 carburettor up to 1380cc irrespective of state of tune. Order as C-AHT770
- b. As above for HS6 and HIF SU. Order as C-AHT770A

2. Inlet manifold for single HS4/6 and HIF SU carburettors for 1380cc and over, irrespective of state of tune. Order as C-AHT771



INDEPENDENT FLOW TEST RESULTS

	CFM
Howley 1.75" previously the best available, but as modified	99.00
Titan 1.75" as cast	105.00
Mini Spares HS4/6 small port under 1380cc as cast (1)	108.10
Mini Spares HS4/6 large port over 1380cc as cast (2)	112.11
MG Metro alloy manifold as cast	96.50

The higher the CFM, the better the flow



3. Inlet manifolds to fit twin carburettors
 - a. HS4/6 ... Order as C-AEG489
 - b. HS2 ... Order as C-AEG488

3. c. Bracket for HS4/6 carburettor throttle return springs. When no heatshields are fitted. Order as C-AHT239

Heatshields



8. a. Stainless steel twin HS2 heatshields. Order as MSSK1005
- b. Black powder coated twin HS2 heatshields. Order as MSSK008
9. a. Stainless steel twin HS4 heatshields. Order as MSSK1006
- b. Black powder coated twin HS4 heatshields. Order as MSSK1004
10. Twin carburettor linkage kit, includes accelerator bracket for manifold, two cross bars and linkage, plus choke and throttle cable trunnions. Order as MSSK009

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Inlet Manifolds & Carburettors



POWERTRAIN

Manifold Spacers



4. Manifold spacer with facility for vacuum gauge 0.295" thick (7.5mm) for 1 1/4" SU HS2 or H2. Order as MFA132
5. Manifold spacer with facility for vacuum gauge 0.295" thick (7.5mm) for 1 1/2" SU HS4. Order as MFA338
6. Manifold spacer with facility for vacuum gauge breather 0.250" (6.3mm) thick for HIF44 HS6 1 3/4" SU. Order as MFA446
7. Spanner for adjusting HS2/4 carburettors ... Order as CA39

Carburettor Dashpots & Stubstacks



11. a. HS4 1 1/2" SU Red anodised cover ... Order as R23RED
- b. HS4 1 1/2" SU Blue anodised cover ... Order as R23BLUE
- c. HS4 1 1/2" SU Polished cover ... Order as R23
12. a. HIF6/38/44 SU Red anodised cover ... Order as R24RED
- b. HIF6/38/44 SU Blue anodised cover ... Order as R24BLUE
- c. HIF6/38/44 SU Polished cover ... Order as R24
13. a. HS2 1 1/4" SU Red anodised cover ... Order as R22RED
- b. HS2 1 1/4" SU Blue anodised cover ... Order as R22BLUE
- c. HS2 1 1/4" SU Polished cover ... Order as R22
14. K&N Stubstack. Increases airflow when used in conjunction with K&N filter for HS4 1 1/2" filter ... Order as SS51
15. Mini Spares own stubstacks. Greatly increases airflow into carburettor, for performance engines.
 - a. Carb stubstacks for HS2 short ... Order as C-AHT245
 - b. Carb stubstacks for HS2 long ... Order as C-AHT246
 - c. Carb stubstacks for H4/HS4 short ... Order as C-AHT247
 - d. Carb stubstacks for H4/HS4 long ... Order as C-AHT248

The HS2 Mini Spares short stubstacks will fit K&N pancake filters.

Mini Spares are the largest supplier and purchaser of Mini parts and accessories in the world.

- We stock over 6000 product lines.
- In excess of 1 million pounds of stock.
- 42,500 different satisfied customers since 2000.

Dashpot Dampers & Springs

- Dashpot spring for HS2/4/6.
 - Red spring 4.5oz Order as AUC4387
 - Blue spring 2.5oz Order as AUC4587
- Dashpot spring for HIF.
 - Yellow 8oz Order as AUD4398
 - Red 4.5oz Order as AUD4355
- Dashpot damper HS2/4/6 Order as AUC8103A
- Dashpot damper HIF38. Order as LZX1511
 - Dashpot damper HIF44. Order as LZX2085



Twin Carburettors

- Pair of twin carburettors with manifold, linkage, heatshields etc, less air cleaners.
 - For twin HS2 (1.25") carburettor kit... Order as FZX3052
 - For twin HS4 (1.5") carburettor kit. Order as FZX3054
- Pair of twin carburettors only, without linkage.
 - For twin HS2 (1.25") carburettors only Order as AUD662
 - For twin HS4 (1.5") carburettors only Order as C-AUD640
 - For twin H4 (1.5") for original works cars or historic events. Order as C-AUD178. (Special Order)
 - For twin HS6 (1.75") carburettors only Order as C-AUD641



Single Carburettors



SINGLE CARBURETTORS

- Single HS4 (1.5") SU carb with red plastic jet, fitted up to introduction of waxstat type. Order as FZX3003
- Single HIF44 (1.75") SU carb, recognised as the ultimate performance carburettor. When set up properly, can produce power outputs comparable with most twin choke carbs, yet be more economical. Order as FZX3006
 - Single HIF38 (1.5") SU carb as used on 1275cc Mini Sprite and modern day improvement on HS4 carb. Order as FZX3004
 - Single HIF6 (1.75") Metro Turbo only. Order as FZX1435
- Single HS4 SU carb (1.5") with metal waxstat jet, fitted up to introduction of HIF range. Order as FZX3013

Genuine SU (Skinners Union) Carburettor Spares

Worn carburettors not only give poor engine performance but are also costly in poor fuel consumption and harmful to the environment.

- Float needle valve and seat
 - Mini Spares Superflow carb jet with ball valve, far superior to anything else for HS2/4/6 Order as CA90
 - HS2/HS4/HS6 Carburettor Order as WZX1100A
 - HIF carburettor (not turbo) Order as WZX1099A
- Complete float lid with needle valve and float, for HS2/HS4/HS6 single carburettor only Order as AUE266
 - Plastic float available separately for HS2/HS4/HS6 Carburettor Order as WZX1300
- HIF carburettor float and gasket kit Order as WZX1509A



Carb Jet Assembly

- HS2 Single carb jet Order as AUD9098A
 - HS2 Twin carb Left hand jet Order as AUD9141A
 - HS2 Twin carb Right hand jet Order as AUD9142A
- HS4 Single carb red jet (see Pre Waxstat item in kit 16 below) Order as AUD9451A
- HS4 Waxstat carb jet (see Waxstat item in kit 16 below) ... Order as LZX1111A



Service & Rebuild kits



- Service repair kit including instructions, diagrams, new main jet, needle valve, gaskets and washers.
 - For single HS2 Carburettor Order as WZX1851
 - For twin HS2/HS4 Carburettor Order as WZX1859
 - For single HS4 Pre waxstat jet Order as WZX1852
 - For single HS4 waxstat jet Order as CSK65
 - For HIF 1.75" Carburettor (not turbo) Order as CSK75
 - For HIF Turbo Carburettor Order as CSK74



- Rebuild kits include service repair kit parts as per item 16 but includes throttle shaft, throttle disc, 2 x bushes and screws as shown above.
 - For single HS2 Carburettor Order as CRK104
 - For twin HS2 Carburettor Order as CRK101
 - For single HS4 Pre waxstat jet with plain throttle disc. Order as CRK219
 - For single HS4 Pre waxstat jet with over run valve throttle disc Order as CRK227
 - For single HS4 waxstat jet Order as CRK121
 - For twin HS4 Order as CRK254
- *Bushes and spindles are also available separately
- HS2 spindle with screws Order as WZX1310
 - Bushes x2 Order individually as AUD3079
 - HS4 spindle with screws Order as WZX1177
 - Bushes x2. Order individually as AUD3080

K&N Air Filters

Mini Spares are a K&N Master Stockist



1

Central hole variants will fit Minis depending on clearance, but the offset holes are designed to raise the filter to clear the Mini bulkhead.

1. Standard K & N filter, 1 7/8" deep, round type.
 - a. HS2 1 1/4" SU with offset hole. Order as 56-1630
 - b. HS2 1 1/4" SU with central hole. Order as 56-9121
 - c. HS4 1 1/2" SU with offset hole. Order as 56-9128
 - d. HS4 1 1/2" SU with central hole. Order as 56-1390
 - e. HS6 1 3/4" SU with offset hole. Order as 56-9132
 - f. HS6 1 3/4" SU with central hole. Order as 56-1400
 - g. HIF6/44 1 3/4" SU with central hole. . . Order as 56-9136



2

2. Oval filters
 - a. HIF6/44 1 3/4" SU with offset hole. 7 1/4" wide x 4 3/4" high x 1 3/4" deep. Order as 56-9142
 - b. Weber 40/45 DCOE 7 1/4" wide x 4 3/4" high x 2 1/2" deep. Order as 56-9147
 - c. Weber 40/45 DCOE 7 1/4" wide x 4 3/4" high x 3 1/4" deep. Order as 56-9265
 - d. Weber 40/45 DCOE 9" wide x 5 1/4" high x 1 3/4" deep. Order as 56-9109
 - e. Weber 40/45 DCOE 9" wide x 5 1/4" high x 3 1/4" deep. Order as 56-1360



3

3. Special cone filters, designed for filters between 2-2 1/2" deep
 - a. HS2 1 1/4" SU offset cone filter. Order as 56-9335
 - b. HS4 1 1/2" SU offset cone filter. Order as 56-9320
 - c. HS6 1 3/4" SU offset cone filter. Order as 56-9327
 - d. HIF6/44 1 3/4" SU offset cone filter. Order as 56-9330



4a

- 4 a. Single point injection cone filter and single hose fitting kit. Usually giving real power gains upto 6BHP. With fitting kit. Not Automatic. Order as 57-0082



4b

- b. Twin (multi) point injection cone filter with 2 hose kit as shown. Usually giving real power gains upto 6BHP. With fitting kit. Order as 57-0189

See page 2 for standard replacement filter elements

K&N Long Life Elements



5



9

8

Long life performance filters made to replace the original. To fit in existing air cleaners chambers.



6

10



7

5. MG Metro Turbo Order as E2360
6. Mini and Metro HS4/HIF Order as E2601
7. HS2 single, or use a pair for Cooper or 1300GT twin HS2 carburetors Order as E9001

8. Latest Mini fuel injection version Order as E9172
9. K&N Air filter cleaner Order as SDCLEANER
10. Oil for re-oiling after service cleaning - sachet Order as SDOIL

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Filters



POWERTRAIN

K&N Filter Maintenance

11. a. K&N six step maintenance system contains air filter cleaner and oil Order as 99-5000
Also available separately
- b. K&N Air filter oil - spray 6.5 oz Order as SDOIL01
- c. Air filter cleaner for K&N servicing Order as SDCLEANER



11

Pipercross Air Filters

Pipercross full flow high capacity foam air filters.

12. New KK155 filter for injection Mini. Order as C0155
13. KK150 cone shaped filter specially designed for limited space on Mini and Metro to eradicate fouling on bulkhead etc.
 - a. For HS2 1 1/4" carburettor. Order as C1501
 - b. For HS4, HIF38 1 1/2" carburettor. Order as C1502
 - c. For HS6 1 3/4" carburettor. Order as C1503
 - d. For HIF6/44 1 3/4" carburettor. Order as C1504



13

Chrome Pancake Filter



14

14. Original foam filled chrome pancake filter for offset holes for Mini.
 - a. HS2 1 1/4" carb. Order as PF101A
 - b. HS4 1 1/2" carb. Order as PF102A

Crankcase Breathers

15. Crankcase breather with chrome top Order as 62-1011
 16. Crankcase breather with blue top Order as 62-1012
 17. Crankcase breather with red top Order as 62-1013
- All have 13mm (1/2") neck



15

16

17

18. K&N breather filter, useful for emission control. Order as 62-1010



18

SU Dashpot Oil

19. Original SU carburettor dash pot oil 125ml bottle Order as BDR125



19

Fuel Pumps - High Performance



Increased engine performance often requires increased or regulated fuel flow, negative earth application only on following pumps (see below)

1. **Interrupter pump with built in filter.** Transistorised switching device instead of points. All three should be used with a separate regulator.
 - a. **Silver top standard,** 4.0-4.5 psi, 18 gallons per hour, ideal for high output engines using a twin choke carburettor, ie. Weber/Dellorto with chokes up to 45mm and all SU single carburettors plus most twin SU set ups, 1/8" NPTF threads. Uses 1/4" fuel line. **Order as STS504**
 - b. **Silver top competition,** 5.0-6.0 psi, 30 gallons per hour, ideal for high output engines using a twin choke carburettor, ie. Weber/Dellorto with chokes up to 45mm 1/8" NPTF threads. 1/4" fuel line. **Order as STC505**
 - c. **Red top,** 6.0-7.25 psi, 40 gallons per hour, ideal for big bore/stroked engines with twin choke or split carburettors with a choke size of over 45mm. 1/4" NPTF threads. Must be used with 5/16" fuel lines. **Order as RTW506**
2. **Facet fuel pump anti vibration and earth kit.** Dampens pump ticking noise **Order as FPA905**
3. **Solid state fuel pump.** Must be used with separate filter.
 - a. **Solid state road pump 2.5-3.0 psi,** 12 gallons per hour, ideal for replacement of standard mechanical pump 1/8" NPTF thread. For use with single SU carburettor. **Order as SS501**
 - b. **Solid state fast road pump, 4.0-5.5 psi,** 18 gallons per hour, ideal for replacing standard mechanical/electric pump. 1/8" NPTF thread sizes, for use with single SU and 1 1/4" twin SU carburettor set ups. **Order as SS502**
 - c. **Solid state competition pump, 6.0-7.25 psi,** 25 gallons per hour, ideal for replacing standard SU mechanical or electric pump. 1/8" NPTF thread sizes for use with single SU and 1 1/2"-1 3/4" twin SU carburettor set ups. **Order as SS503**

Fuel Filters/Regulators



4. **Solid state pre pump filter.** For all solid state pumps must be used to eliminate fuel tank debris damaging either the fuel pump or carburettor. **Order as FPA906**
5. **Filter king regulator.** 67mm alloy bowled fuel regulator/filter combined allows adjustment of fuel pressure for optimum power and fuel economy, a must for interrupter pumps. 6-8mm inlet/outlets (universal for 1/4" or 5/16" hose). **Order as FPR005**
6. **Filter King regulator.** 67mm glass bowl version of FPR005, 6-8mm outlets/inlets **Order as FPR004**
7. **Purolator fuel filters**
 - a. **In line fuel filter toughened glass,** cleanable, chrome finish ends 1/4" inlet/outlet unions. Any application. **Order as PR0804**
 - b. **Fuel filter,** as per PR0804 but with 5/16" inlet/outlet unions **Order as PR0805**

Connections & T Pieces



8. **1/4" fuel T-piece,** various applications. Useful on twin carburettor petrol tank set ups **Order as 12H889**
9. **5/16" fuel T-piece,** various applications. **Order as MTP002**
10. **1/4" straight fuel union for all solid state and silver top pumps** 1/8" NPTF thread sold individually. **Order as FPA903**
11. **5/16" straight fuel union as per FPA903** **Order as FPA903A**
12. **5/16" straight fuel union for red top pump.** 1/4" NPTF thread, sold individually. **Order as FPA904**
13. **Angled fuel union.** 5/16" 90° union for red top. 1/4" NPTF thread, pair **Order as FPA902**
14. **Angled fuel union.** 5/16" 90° union for all solid state and silver top pumps, 1/8" NPTF thread, sold as pair. **Order as FPA901**
15. **5/16" - 1/4" Hose reducer.** **Order as HM-4-5**

Original Fuel Pump

16. a. **Original SU electric fuel pump fitted up to 1970.** Can be fitted to positive and negative earth **Order as AUF214**
 AUF214 is also available with a solid state electric function in the same body for reliability.
 - b. **Available for negative earth** **Order as AUF214EN**
 - c. **Available for positive earth** **Order as AUF214EP**



17. a. **Single point injection pump and filter that fits into the tank** **Order as WFX10045**
- b. **Twin point injection pump and filter that fits into the tank** **Order as WFX100810**
18. **Mechanical Pump** **Order as AZX1818**

SU Braided Hoses



19. **Original type SU braided hoses** originally used on Minis and BMC vehicles.
 - a. **22" long** **Order as PPK7**
 - b. **15" long** **Order as PPK6**
 - c. **11 3/4" long** **Order as PPK5**
 - d. **10" long** **Order as PPK4**
 - e. **7 1/2" long** **Order as PPK3**
 - f. **6 3/4" long** **Order as PPK2**
 - g. **2 1/2" long** **Order as PPK1**
20. **The original clip as used on these hoses** **Available separately as ACH5854**

Striving for Quality & Performance



Bill Gilcrease

Minispares strive to offer the best performance parts available. We use many Tuning Shop Technicians to develop, install, test and race our parts. Such as Keith Calver, Mick Barrett (MBE) Bill Gilcrease, Bill Richards, & MiniMania USA/Germany.

Bill Gilcrease one of our Technical parts assessors from California races in the high profile SCCA GT5 series and at the National Championship Run Offs was the fastest Mini through the speed traps.



Bill Gilcrease

Exhaust Manifolds - Mini

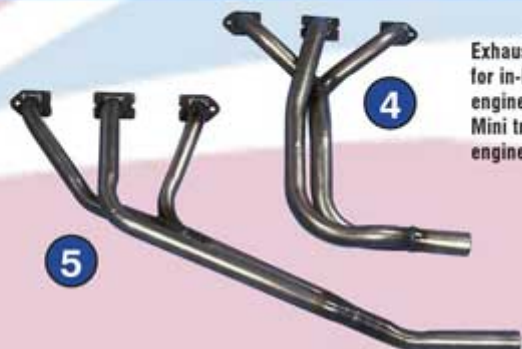
1. The **Freeflow exhaust manifold** replaces the original type used on Cooper and Cooper 'S' cars. This is a very efficient little manifold and slightly quieter than the LCB versions. The RC40 exhaust fits onto this without any modifications. The freeflow manifold outlet end is 1.75" outside diameter, 1.625" (1⁵/₈") internal diameter. Ideal for all road going Minis, particularly small bore engines.



All Long Centre Branch Manifolds have Y piece and gearbox clamps.

- ... Order as C-STR816
2. The original **LCB (long centre branch)** denoted by the detachable Y piece for ease of fitting. These have proved to be the most efficient exhaust manifolds for Minis. A clamp is provided on the manifold to bolt to the gearbox differential side cover, to stop fracture and excess movement. Check engine rock as failure to fit the bracket will invalidate guarantee.
 - a. **Small bore LCB's for 850/998/1100cc** have Y piece outlet end of 1.5" outside diameter, 1.375" internal diameter. Order as C-STR817
 - b. **Standard bore LCB for all-round road use** including tuned cars. Y piece outlet end is 1.875" outside diameter, 1.75" internal diameter. Order as C-AEG365
 - c. **Standard bore LCB as above but in stainless steel** Order as C-AEG365S
 - d. **Standard bore LCB for the Metro**, same as (b) but 0.375" shorter to suit metro engine bay and Mini small bore engines. Order as C-AEG366
 - e. **Large bore LCB for competition use or large bore engines such as 1400cc.** Y piece outlet end is 2" outside diameter, 1.875" internal diameter. Order as C-AHT289
 3. a. **The only three into one adapted for the road** which has clamps for sealing the downpipe collector for quietness and efficiency, hence downpipes 0.125" smaller than (b). These have been found to be very useful on certain applications of 1275-1400 engines where mid-range torque and fuel economy are paramount. Collector piece outlet end is 1.875" outside diameter, 1.75" internal diameter. Order as C-STR340
 - b. **Three into one collector type manifolds** are usually fitted to race engines with camshaft durations of over 300 on 1275cc and big bore units. Collector outlet end is 1.875" outside diameter, 1.75" internal diameter. Order as C-STR332
 - c. **Large bore three into one race manifold** is really for 1400cc engines where long duration camshafts over 305 are used. Collector outlet end is 2" outside diameter, 1.875" internal diameter. Order as C-STR336

Manifolds - A Series In-line



Exhaust Manifolds for in-line 'A' series engines, will not fit Mini transverse engines.

4. a. **Sprite standard bore freeflow exhaust manifold** which has exit pipe dimensions of 1.625" outside diameter and 1.5" internal diameter. Order as C-AHT11
- b. **Sprite large bore freeflow exhaust manifold** which has exit pipe dimensions of 2" outside diameter and 1.875" internal diameter. Order as C-AHT12
5. a. **Morris Minor standard bore freeflow exhaust manifold** which has exit pipe dimensions of 1.625" outside diameter and 1.5" internal diameter. Order as LM052 (special order)
- b. **Morris Minor large bore freeflow exhaust manifold** which has exit pipe dimensions of 2" outside diameter and 1.875" internal diameter. Order as LM053 (special order)

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Exhaust Manifolds



POWERTRAIN

Exhaust Components



6. 'Y' piece for large bore LCB (C-AHT289) with correct clamps. Order as C-AHT198
7. 'Y' piece for Manifold LCB (C-AEG365) with correct clamps. Order as C-AHT197
8. Collector for 3 into 1 large bore manifold, (C-STR336) does not have clamps. Order as C-AHT199
9. Catalytic Converter Replacement Pipe. Order as C-ARA664
10. Conversion neck for fitting larger bore RC40 or 1 3/4" pipe to original exhaust manifold. Order as LDP1
11. a. 1 5/8" (1.625") LCB manifold clamp for C-AHT197. Order as C-AHT97
 b. 1 1/2" (1.5") LCB clamp for manifold to gearbox housing preventing breakage, (supplied with manifolds). Order as C-AHT94
 c. 1 7/8" (1.875") manifold clamp for C-AHT198. Order as C-AHT121

LCB Manifolds 1990 on

Long Centre Branch system to replace existing exhaust manifolds on catalyst type vehicles. When retaining the catalyst, the knuckle jointed pipe is included. These are for vehicles after 1990 and vehicles with catalysts from approx 1992 on. All Y piece outlet ends are 1.875" outside diameter, 1.75" internal diameter.



12. a. LCB exhaust manifold for fitting fuel injected cars with a sensor take off and catalyst removed to fit RC40 complete system. Order as C-AEG374
- b. LCB exhaust manifold for fitting carburettor version cars when catalyst removed to fit RC40 complete system. Order as C-AEG373
- c. LCB exhaust manifold C-AEG374 (12a) but includes link pipe number 13 for fitting when catalyst is retained on fuel injected cars. Order as C-AEG369
- d. LCB exhaust manifold C-AEG373 (12b) but includes link pipe number 13 with a sensor take off for use when retaining catalyst for carb versions. Order as C-AEG368
13. Link pipe from catalyst to LCB with stainless steel knuckle to prolong life. Also gives that extra bit of ease when fitting and flexibility in the system to overcome movement damage. Order as C-AEG375
 This pipe is included in kits 12c and 12d.

Downpipes - Late models



Specially designed to fit the existing exhaust manifold for vehicles from 1990 onwards. Y piece outlet end is 1.875" outside diameter, 1.75" inside diameter.

1. These are the downpipes to fit the original exhaust manifold on Mini Cooper and MG Metros when using HIF6/44 carburettors. This allows you to delete the catalyst and fit an RC40 complete system . . . Order as C-AEG367
2. The same downpipes as No.1 but with a Lambda sensor take-off for use when retaining the catalyst. These downpipes bolt to the original exhaust manifold and come complete with item No. 4. Order as C-AEG370
3. a. These are the downpipes to fit onto the original exhaust manifold when deleting the catalyst on fuel injected Coopers and fitting an RC40 complete system. Order as C-AEG372
 b. The same downpipes (item No. 3) are used with pipe (item No. 4) when retaining the catalyst and fitting to the existing manifold on fuel injected cars. Sold as a pair, Order as C-AEG371
4. The manifold to catalyst pipe has a stainless steel ball for easy fitment, flexibility, and must be used on the fuel injected, (T.B.I) cars to alleviate damage to manifold neck. Order as C-AEG375
5. Flanged Nut for exhaust stud. Order individually as FX108047
6. Stud for exhaust downpipe flange Order individually as TD108051A
7. Catalyst gasket 2 required. Order individually as GEX7761
8. Down pipe to manifold gasket Order individually as GEX7779



Exhaust Mounts



9. Competition middle exhaust mounting as used on works cars. Shown apart to show modification carried out to make it much stronger. Order as C-19G3257
10. Larger, stronger rear exhaust mounting as used by works cars will usually fit earlier subframes on existing holes in either the middle or side exit position. Order as C-19G3258
11. a. Middle exhaust mounting in poly . . . Order as GEX7081POLY
 b. Std. rubber middle exhaust mounting Order as GEX7081
12. Cotton reel mounting Order as GEX7251
13. Rubber hanger strap as used from 1992 on Order as DBP7104

Peco Exhausts



Small and large bore denotes size of inlet pipe. All tailpipes on Peco are the same size. All have 2 1/4" chrome tailpipes
 Small bore Peco silencers are for, 850/998/1100cc engines and have a 1 3/8" outside diameter and 1 1/4" internal diameter inlet.
 Large bore Peco silencers are for 1275cc upwards and have a 1 7/8" outside diameter and 1 3/4" internal diameter inlet.

14. a. Large bore with upswept single chrome tail pipe as shown. Order as PECO-BB1-7
 b. Large bore with straight exit chrome tail pipe . . . Order as PECO-BB1-2
15. a. Small bore with upswept single chrome tail pipe as shown. Order as PECO-BB1-6
 b. Small bore with straight exit chrome tail pipe . . . Order as PECO-BB1-1
16. Large bore with twin upswept chrome pipe Order as PECO-BB1-4T
17. Small bore with twin upswept chrome pipes Order as PECO-BB1-3T

Manifold Exhaust Systems

Manifold exhaust systems are stocked for specific performance uses and they are not as quiet as the RC40.

18. Rear side exit exhausts, fitted in original positions of Mini as per Rover.
 - a. 2" bore single box exhaust system. Not road legal except for turbos. Order as C-ARA333
 - b. 2" bore twin box exhaust system Order as C-ARA334
 - c. 1 3/4" bore twin box system for fuel injected (TBI) Minis when retaining catalyst. Joining pipe with a built-in knuckle and twin boxes for late type hangers only Order as C-ARA336
 - d. 1 7/8" bore twin box system for fitting to LCB when no catalyst fitted or required. Order as C-ARA337
 - e. 1 3/4" standard bore twin box Order as C-ARA331
 - f. 1 3/4" standard bore twin box system for mini van, pick up, estate Order as C-ARA339
 - g. 1 3/4" standard bore single box system with twin upswept DTM style tailpipes Order as C-ARA340



19. Centre exit exhaust systems.
 - a. 2" bore twin box system Order as C-ARA335
 - b. 1 7/8" bore twin box system Order as C-ARA338
 - c. 1 3/4" bore twin box system Order as C-ARA332

Millennium Range



Rolled Edge



DTM Style

The NEW Millennium range of RC40 exhaust systems all use the optimum size 1.75" (1.625" internal) tubing for maximum performance and efficiency. And are available in a variety of different size tailpipes and style options. There are two alternatives of material in the range.

Either T304 stainless steel with lifetime guarantee or mild steel with a stainless steel internal pipe for anti-corrosion strength and tailpipe for enhanced appearance.

- 
1. S/Steel side exit, standard bore tailpipe Order as RC40-051
 2. S/Steel side exit DTM style 2" tailpipe Order as RC40-052
 3. a. S/Steel side exit single large bore 2.25" tailpipe..... Order as RC40-053
b. Mild Steel single large bore 2.25" tailpipe Order as RC40-010
 4. a. S/Steel centre exit standard bore tailpipe Order as RC40-054
b. Mild Steel centre exit standard bore tailpipe Order as RC40-011
 5. a. S/Steel centre exit large bore 2.25" tailpipe Order as RC40-056
b. Mild Steel centre exit large bore 2.25" tailpipe Order as RC40-012



6. S/Steel centre exit DTM style tailpipe Order as RC40-055

Down Pipes and Down Pipes with intermediate silencer when no catalyst is fitted

7. a. Stainless Steel downpipe from freeflow manifold (C-STR816) to rear silencer Order as RC40-058
b. Stainless Steel downpipe from LCB manifold (C-AEG365) to rear silencer Order as RC40-059
c. For a mild steel downpipe use AN180V and cut to length as required.
8. a. Stainless Steel downpipe with intermediate silencer from freeflow (C-STR816) to rear silencer Order as RC40-060
b. Stainless Steel downpipe with intermediate silencer from LCB (C-AEG365) to rear silencer Order as RC40-061
c. Mild Steel downpipe with intermediate silencer from freeflow (C-STR816) to rear silencer (cut downpipe to length for LCB) Order as RC40-013
9. Intermediate silencer from catalyst to rear silencer box. Needed when you



are installing a twin rear box system

- a. Stainless Steel Order as RC40-062
- b. Mild Steel Order as RC40-014

Connecting Pipes from catalyst to Single Box Rear System

10. a. Stainless Steel pipe from catalyst to rear silencer . Order as RC40-057
b. For mild steel use AN181T and cut to length required.

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RC40 Exhaust Systems



POWERTRAIN

Classic Range

11. RC40 classic rear exhaust box as shown with the catalyst pipe AN181T fitted for use when the old type rubber mounting blocks pre 1992 are used. The same rear box is used with long downpipe 17 for single box exhaust system. . . . Order the rear box only as C-STR809
12. Pipe with flange for bolting to catalyst and attaching the rear exhaust box. Can be cut and used for Millennium range. For the pipe only . . . Order as AN181T



13. a. RC40 rear box only, but with downpipe built in to fit catalyst vehicles with late type rubber hanger straps 1992 on Order as C-STR811
b. In stainless steel Order as C-STR815

14. This downpipe is not part of the RC40 system when ordered. State type of pipe required.
a. Short pipe that joins RC40 twin box system to freeflow exhaust manifold. When fitting to a LCB type manifold, the flared end with slots needs to be cut off Order as RC40-001
b. Short pipe that joins RC40 twin box system to a standard bore LCB. To save cutting item a. Order as RC40-002

15. Twin box only RC40 performance system which does not include pipe item 14, was designed specifically for Minis by computer and flow bench tested for maximum efficiency and economy, also tested and epitomised in Vizard's 'A' series tuning books. No power loss in engines up to 125 bhp. 1.75" pipe size with internal diameter of 1.625" but entrance hole is flared to 1.75" internal to take item number 10 Order as RC40

For stainless steel version use Millennium range.

11. RC40 rear box only for use with item number 16 has entrance hole flared to accept 1.75 inlet . . . Order as C-STR809
16. Pipe for fitting freeflow exhaust manifold to RC40 single box. When using a LCB type manifold the flanged end piece will require cutting off. . . . Order as AN180V



17. Fitting kit for RC40 when you are not using the rubber hanging straps as fitted from 1992 on Order as RC40FK

5 Speed Gearboxes

For rod change models only

Somewhat over-engineered this fully built 5 speed gearbox may also be made available as a form of self build kit for only very experienced Mini transmission specialists. The gearcase undergoes extensive modifications plus 58 new linkage and gear modification parts. The helical box has been modified to a closer ratio by virtue of new redesigned laygear and 1st motion shaft producing 3.282 1st gear, 1.966 2nd gear, 1.283 3rd gear, 1.1 4th gear and a 5th gear ratio of 0.882. To take extra power the straight cut versions using Evolution Clubman gears produces a 5th gear ratio of 0.865. See gears page for Clubman ratios. Successfully used since 1994 on all applications up to 1380cc (except extra boosted turbos), the strength of the helical cut gear box is dependant on the torque capability of the original 2nd/3rd gears plus the final drive pinion (i.e. 80-85 ft. lb. of torque). Albeit Keith Dodd and others have used these gear boxes on 1380's and 8port road going cars.

1. **5 Speed** self build for Evolution Clubman straight cut gears. **Order as MSG02**
2. **5 Speed** self build for A-plus helical (pre 97 - not twin point) **Order as MSG03**
3. **5 Speed** complete A-plus gearbox with EVOLUTION diff **Order as MSG04**
4. **5 Speed** complete A-plus gearbox with crosspin diff. **Order as MSG05**
5. **5 Speed** complete Evolution Clubman straight cut. **Order as MSG06**
6. **5 Speed** complete Evolution Clubman straight cut with crosspin diff **Order as MSG07**



Quick Shift Gear Lever Kit

Quick shifts are not recommended for 5/6 speed gearboxes



2. **Reverse gearlock** for remote type gear levers to remove possibility of going into reverse in error **Order as MS71**
3. **Chrome quick shift gear change** for rod change gearbox. Nearly halves lever travel between gear lever changes. **Order as C-22A1751**
4. **Chrome quick shift gear change** for remote gearbox. Nearly halves lever travel between gear lever changes **Order as C-22A1750**
5. **Shift Bias Lever. (Rod change only).** Makes second to third gear changes smoother and quicker, like most modern-day cars. Fitted to all 5 speeds. **Order as MSG12**

Evolution Diffs

6. **Our own world famous Evolution limited slip diff**, designed in 1993 with the latest technology is available as road, rally or race for the Mini and in race form for the Sprite and Midget.
 - a. **Mini Race** **Order as C-AJJ3387**
 - b. **Mini Rally** **Order as C-AJJ3387A**
 - c. **Mini Road** **Order as C-AJJ3387B**
 - d. **Sprite Race** **Order as C-BTA1226**
 - e. **Sprite Rally** **Order as C-BTA1226A**



7. **Evolution cross pin differential**, Mini Spares have been producing the same original and unique X-Pin diff since 1994 under different banners/ names. It was designed for powerful engines or events where the LSD type was not allowed, or the original differential could not cope and would prove inadequate. Tried and tested on RAC Rally and various hill climbing events. **Order as C-AJJ3385**

OVER 250 SOLD EVERY YEAR

Gearbox Components

Layshafts

8. **4 synchro layshaft single step pre A-plus** **Order as 22G931**
9. **4 synchro layshaft dual step A-plus** **Order as DAM3187**
10. **3 synchro hi-grade layshaft** **Order as C-22A1731**
11. **Sprite and Midget hi-grade layshaft** **Order as C-22G673**



Performance strength diff pin

The differential pin causes frequent distress amongst those with powerful road cars, autotesters and all types of racing where a standard diff has to be used. BL changed the pin a few times over the years but made apparently little difference, especially to the performance market. 10 years and 3500 sales have passed since an in-depth analysis was carried out to accumulate the contributing factors to the horrendous wear rates and failures, enabling Mini Spares to produce a new generation pin that would almost eradicate the problem apart from those caused by poorly machined planet gears. Production tolerances were tied down to exacting specifications with a material and heat treatment upgrade. Planet gear contact area is increased as is the core strength of the pin combining with a finer ground surface to give a very tough and hard wearing component.

12. **Performance strength diff pin** **Order as C-BTA166**

Bushed Planet Wheel+ Diff Pin Kit - performance use

13. This is the ultimate way of stopping diff pin wear for any use and especially when competition regulations do not allow use of X pin or LSD differential units. The kit contains 2 specially bushed planet gears with thrusts, diff pin and a new securing roll pin. **Order as C-BTA167**



Baulk Rings

Current standard baulk rings produced in sintered metal are not tough enough to deal with the demands of performance usage, in many instances only lasting one race before breakage and other failures. The main reason is the incompatibility of the material specification with the usage to which it is being put. Basically it is too brittle. Mini Spares competition baulk ring is a replication of the steel version similar to those originally fitted and used in the 1960 era. Manufactured in iron, induction hardened and then finished by hand to give an exact fit on the baulk ring cone.



14. a. **Steel competition baulk ring** for use on Mini Spares Moly coated gears **Order as C-22A1741**
- b. **Standard Rover sintered baulk ring** **Order as 22G2033**
- c. **Mini Spares Centre sintered baulk ring** **Order as 22G2033MS**

Oil Pick Up Pipe

To ensure an uninterrupted supply of oil to the engine during high rpm and hard cornering it is imperative to fit a centre oil pick up pipe. This draws oil from a centralised position at the lowest point of the gearbox, therefore avoiding aeration caused by surge. The latest technology on engines and performance lubricants has influenced a redesign, whereby the internal size of the pick up pipe bore has been optimised along with the filter gauze size and efficiency, so it is now (approximately) double the filter area without restricting pick up flow or compromising fitting. This greatly reduces oil pump and engine damage caused by foreign particles being sucked up the pipe.

15. **Centre oil pick up pipe** **Order as C-AHT54**
It is recommended to fit the extended drain plug DP1.



Gear Box Leak Fix

Most engine gearbox oil leaks originate from the gearchange rod seal. One remedy used to be fitting two seals, but this did not support the rod centrally. To overcome this problem an alloy spacer which has an 'O' ring fitted centralises the gear change rod and helps restrict oil leaks. The original oil seal is then fitted to stop leaks and then a dust cover as final protection slides over the rod to stop road debris penetrating the seal.

16. **Gearbox Leak Fix Kit** **Order as MSSK050**



Diff & Drive Couplings



Reproduction parts include the 'S' diff side plate, which are essential when using the Hardy Spicer type coupling or LSD output shaft. Mini Spares only produce the 'S' side plate with the extra 'ear' 22G420, so it can be used with No. 5/7 on rod and remote type gear boxes.

The studs that fit the output shaft flange are also remade.

1. **Diff side plate** for standard rod or remote gear box except automatics and Cooper S where Hardy Spicer joints are fitted, fits item number 6. **Order as CHM85**
2. **'S' diff side plate** - for original 'S' remote type and rod change gearbox when Hardy Spicer or limited slip differential are fitted, when using No. 5 or 7. **Order as 22G420**
3. **Output flange stud** **Order as 22A1139**
4. **Special philidas nut for 22A1139** **Order as GFK3431**
5. **Hardy Spicer shaft coupling assembly.** When using item number 7 or 'S' output shafts. **Order as 27H7880**
6. **Inboard CV joint (pot joint) type output shaft for LSD** **Order as C-BTA1263**
7. **a Hardy Spicer coupling type output shaft for LSD uses 22G419/420 side plates** **Order as C-BTA1262**
b Spacer washer for C-BTA1262. (2 required) **Order as C-BTA1243.**
c Retaining clip for C-BTA1262. (2 required) (not shown) **Order as CCN122.**
8. **Original rubber coupling including 'U' bolts.** **Order individually as GCD101**
9. **For arduous work or longevity use this needle roller type with plastic ends which are resistant to oil which causes premature wear of GCD101. Includes bolts/nuts** **Order as a pair QL5000**



10. **Pot joint (inboard CV)** **Order as GCV1102**
11. **a. genuine gaiter kit for pot joint** **Order as GDG234**
b. Non genuine gaiter kit for pot joint. **Order as BHM7012**

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Diff and Crownwheels



POWERTRAIN

Crownwheels



Crown wheels are usually stamped with the part number and often the number of teeth for that crown wheel and pinion, (ie. 22A411 will be marked with that number and 18/62). The pinions are not marked in any way, but note some crown wheels and pinions have the same number of teeth, but the tooth pitch and overall diameters vary. It is absolutely imperative that the correct pair of gears are used to avoid considerable damage.

Specification list detailed in AKM2 mechanical parts catalogue. All A-plus gears have different teeth angles, and are not interchangeable with early gears. When events or conditions do not permit use of an LSD the following can be used....

Standard Helical Cut Crown Wheel and Pinions

Some Rover final drive gears (if still in production) are available as separate items.

11. **a. 2.76 crown wheel and pinion** **Order as CWP2.76**
b. 3.4 crown wheel and pinion **Order as CWP3.4**
c. 3.6 crown wheel and pinion **Order as CWP3.6**

Semi Helical Strong Competition Crown Wheel and Pinion Set (not for LSD)

12. **a. 3.46 crown wheel and pinion with 52x15 teeth** **Order as C-BTA1001**
b. 3.76 crown wheel and pinion with 64x17 teeth **Order as C-BTA1002**
c. 3.93 crown wheel and pinion with 55x14 teeth **Order as C-BTA1003**
d. 4.07 crown wheel and pinion with 53x13 teeth **Order as C-BTA1004**
e. 4.31 crown wheel and pinion with 56x13 teeth **Order as C-BTA1005**
f. 4.57 crown wheel and pinion with 64x14 teeth **Order as C-BTA1006**
g. 4.67 crown wheel and pinion with 56x12 teeth **Order as C-BTA1007**

Semi Helical Strong Competition Crown Wheel and Pinion Set (LSD only)

13. **a. 3.46 crown wheel and pinion with 52x15 teeth** **Order as C-BTA1250**
b. 3.76 crown wheel and pinion with 64x17 teeth **Order as C-BTA1248**
c. 3.93 crown wheel and pinion with 55x14 **Order as C-BTA1252**
d. 4.07 crown wheel and pinion with 53x13 teeth **Order as C-BTA1246**
e. 4.23 crown wheel and pinion with 55x13 teeth **Order as C-BTA1251**
f. 4.31 crown wheel and pinion with 56x13 teeth **Order as C-BTA1249**
g. 4.67 crown wheel and pinion with 56x12 teeth **Order as C-BTA1253**
14. **Competition diff pin** **Order as C-BTA166**

Gearbox Rebuild Kits



Kits breakdown as follows:

- Above only = MSG20/22/24** (no diff parts)
Above + Left + a = MSG21 (with diff parts)
Above + Left + b = MSG23 (with diff parts)

Pre A-plus gearboxes have a 14mm wide end on the mainshaft to fit the 1st motion shaft where as A-plus have a 18mm wide end to fit the 1st motion shaft. Some early A-plus and all ST original ratio straight cut laygears were made to take 3 bearings, hence kit **Order as MSG24**

Complete gearbox rebuild kit less differential for a pre A-plus series **Order as MSG20**

Complete gearbox rebuild kit with differential for a pre A-plus series **Order as MSG21**

For 4 synchromesh gearboxes with 18mm wide mainshaft A-plus type

Complete gearbox rebuild kit less differential A-plus with 2 bearings on laygear **Order as MSG22**

Complete gearbox rebuild kit with differential parts for A-plus as above **Order as MSG23**

Complete gearbox rebuild kit less differential A-plus with 3 bearings on laygear **Order as MSG24**

The **small roller bearings** under 1st gear is available as AAU1815 and for 2nd or 3rd gear, available as AAU1816. These are not included because they do not often get checked or changed and are expensive at nearly £10.00 per piece.

3 Synchro

GEAR RATIO COMPARISON (3 SYNCHRO GEARS)

	850/997/998	'S' & 998 COOPER	STRAIGHT CUT
1st Gear	3.627	3.2	2.573
2nd Gear	2.172	1.916	1.722
3rd Gear	1.412	1.357	1.255
4th Gear	1.0	1.0	1.0

3 Synchro straight cut gear sets include 2nd, 3rd gear, 1st motion shaft and laygear only, but must be used with original B type 1st/2nd outer track 22A1021 and 22G202 standard reverse gear. Gears are also kept in stock for the Sprite/Midget box. First gear outer track 22G1118/9 is needed for this set up.

	Mini	Sprite
Kit part number	C-AJJ3371	C-AJJ3319
Laygear 12, 17, 20, 23 teeth	C-22G1047	C-22G1047
2nd Gear 28 teeth	C-22G1049	C-22G1049SPRITE
3rd Gear 24 teeth	C-22G1050	C-22G1050SPRITE
1st Motion 22 teeth	C-22G1048	C-AEG3138
1st Gear Outlet Track (not supplied in kit)	22A1021	22G1119

Evolution Drop Gears

There are a unique eight ratios of straight cut drop gears to replace the standard helical set up, all based around a common idler gear. Produced to accurate specifications and a high quality finish, back lash is reduced to a minimum. This vastly reduces the 'clatter' experienced when using straight cut drop gears from other manufacturers, also making the gears inherently stronger and more tolerable when used in road cars. The interchangeability greatly reduces the cost for racers of having alternative ratios for different circuits - allowing the optimum gear ratios to be used for each circuit without the need for crown wheel and pinion changes. NOTE: When fitting to 3 synchro boxes, spacer number C-STR239 is required for the input gear.

To alleviate undue pressure on standard idler gear bearings and thrust washers a taper roller bearing kit for either A-plus or pre A-plus gearboxes is available using a special converted idler gear C-STR30T and 30TA



Ratio	NUMBER OF TEETH		
	Primary Gear	Idler Gear	Input Gear
1-1	24	30	24
1-1	23	30	23
1.0416-1	24	30	25
1.0434-1	23	30	24
1.045-1	22	30	23
1.0869-1	23	30	25
1.09-1	22	30	24
0.958-1	24	30	23
1.136-1	22	30	25

*22 tooth primary is for hill climbs, sprints only.
23 tooth primary originally turbo race (Metro)*

Primary Gears

- 24 tooth 1300cc type primary gear..... Order as C-STR124
- 23 tooth 1300cc type primary gear..... Order as C-STR123
- 22 tooth 1300cc type primary gear..... Order as C-STR122

Idler Gears

- 30 tooth idler gear - pre A-plus 1/2" shaft..... Order as C-STR30
- 30 tooth idler gear - A-plus 7/8" shaft..... Order as C-STR30A
- 30 tooth idler gear & taper roller bearing convn. Pre A-plus..... Order as C-STR30T
- 30 tooth idler gear & taper roller bearing convn. A-plus..... Order as C-STR30TA

Input Gears

- 23 tooth extra strong input gear..... Order as C-STR230
- 24 tooth input gear..... Order as C-STR240
- 25 tooth input gear..... Order as C-STR250

Over 1,000 Straight Cut Gears Sold Annually

4 Synchro early close ratio kit

For those with Pre A (no groove markings on the gears) the standard ratio gearbox can be converted to the original 'S' closer ratios by changing the laygear and the 1st motion shaft.

- a. With early 14mm size mainshaft..... Order as C-AJJ4032
- b. With late A-plus size 18mm mainshaft..... Order as C-AJJ4032A

Straight Cut Gears

Mini Spares are proud to boast that their unique gears are definitely the best on the market in terms of value, quality, design and appearance using original Rover tooling for the speed gears.

GEAR RATIO COMPARISON (4 SYNCHRO GEARS)

	HELICAL			STRAIGHT CUT	
	EARLY 850/998/1100	'S' & 1275GT	A-PLUS	CLUBMAN SET	'ST' SET
1st gear	3.52	3.32	3.64	2.583	2.544
2nd gear	2.21	2.09	2.18	1.711	1.731
3rd gear	1.43	1.35	1.42	1.250	1.258
4th gear	1.0	1.0	1.0	1.0	1.0

Evolution Gears

By using the very latest gear cutting techniques, equipment, Rover tooling and drawings it has enabled top line manufacture of all our gears, allowing Mini Spares to make alternative ratios, namely the 5 speed gearbox and the Evolution Clubman A-plus straight cut gear set. The Evolution Clubman straight cut gear set has teeth counts that provide a ratio between the old special tuning 3 and 4 Synchro gearsets. This provides a better set for the road and is much favoured by certain participants of motorsports such as rallycross. This set utilises your standard 1st and reverse gear which are already straight cut as standard, which helps to reduce cost.

In A-plus type only..... Order as C-STN39

Laygear uses 2 bearings



C-STR291	Clubman 2nd Gear	26 Teeth
C-STR292	Clubman 3rd Gear	23 Teeth
C-STR293A	Clubman 1st motion Shaft	20 Teeth
C-STR294	Laygear	15,19,23,25 Teeth

Original Design Special Tuning Gears

The 'special tuning' gear ratio set is available in 3 versions - remote type, pre A-plus rod type, and A-plus rod type. There is a different reverse gear for the rod and remote types, as well as a different laygear and 1st motion shaft on A-plus kits.

All ST laygears are made to accept the 3 bearings.



Straight Cut Gears	Remote Type ST Ratio Gear Kit	Rod Change ST Ratio Gear Kit	Rod Change A-Plus Gear Kit
Part Number for Kits	C-AJJ4014	C-STN76	C-STN77
1st motion pre A-plus, 19 teeth	C-22A1732	C-22A1732	
1st motion A-plus, 19 teeth			C-22A1732A
3rd Gear, 22 teeth	C-22A1733	C-22A1733	C-22A1733
2nd Gear, 25 teeth	C-22A1734	C-22A1734	C-22A1734
1st Gear, 29 teeth	C-22A1735	C-22A1735	C-22A1735
Laygear, 15,19,23,25 teeth	C-22A1737	C-22A1737	
A-plus Laygear			C-22A1737A
Reverse Gear rod Gear	C-22A1736		
Rod Change Reverse Gear		C-STR303	C-STR303

Mini Spares Bushes

The original Deva front bush often wears so Mini Spares came up with a proven alternative for their own use and as an inexpensive replacement. Remove your old bush and fit this replacement floating type which just slides in without requiring the expense of having it machined concentrically with the top hat rear bush. The reliability of the rear floating bush has been tested in both full race and standard road cars since 1999.

1. a. Mini Spares front fully floating bush..... Order as C-AEA3240
- b. Front Deva bush - requires machining after fitment... Order as DAM8889
2. Rear top hat bush - requires machining after fitment..... Order as 22G109



Performance Dampers

- 1. Mini Spares Performance Dual Adjustable Damper**
Gas/oil filled 28 point knurled knob finger and screwdriver adjustment type dampers. For standard height and lowered cars. Recommended to be fitted in pairs but sold individually. Adjustable while on the car.

FRONT

- a. Standard height Order individually as C-STR306
b. Lowered height Order individually as C-STR304

REAR

- c. Standard height Order individually as C-STR307
d. Lowered height Order individually as C-STR305
e. Rear standard height for van Order individually as C-STR308



- 2. Special Softer Fitting (standard height)**

- Spax knob adjustable for softer setting on standard cars. The lowest setting is equivalent to standard dampers.
a. Front Spax Order as NGM1A
b. Rear Spax Order as NGM2A

- 3. Standard replacement dampers**, either genuine Rover, Unipart or Kayaba premium upgrade. Kayaba are the largest and probably best suppliers of original equipment to car manufacturers in the world. It is recommended to fit in pairs.

- a. Kayaba front Order individually as 442001
b. Unipart front Order individually as GSA71541
c. Kayaba front gas upgrade Order individually as 342001
d. Kayaba rear Order individually as 442002
e. Unipart rear Order individually as GSA71542
f. Kayaba rear gas upgrade Order individually as 342002

- 4. Kayaba gas pressurised, self-adjusting dampers.**

Used and promoted by Keith Dodd on his own car. Very effective and cost efficient slim body upgrade offering all weather, all temperature consistency for road cars. We recommend fitting in pairs.

- a. Gas a-just front Order individually as 552018
b. Gas a-just rear Order individually as 552019



- 5. Koni gas filled 4 point adjustable damper.** are twin tube, oil filled, 4 point adjustable dampers which are rebuildable and are 20% uprated over Rover standard damper spec. Adjusting the damper up does not increase performance, it only makes it stiffer, which is not the same thing. It is recommended to fit in pairs.

- a. Front for standard height Order individually as C-STR1675
b. Front for lowered height Order individually as C-STR1717
c. Rear for standard height Order individually as C-STR1794
d. Rear for lowered height Order individually as C-STR1795

Order individually as C-STR1795



- 6. The Koni Sport dampers** are twin tube, oil filled, 4 point adjustable dampers which are rebuildable and are 30-35% uprated over Rover standard damper spec. The Sport seems to be the favoured choice for all forms of serious competition use where budget is at a premium, or restrictions on suspension changes apply. The adjustment is for fluid degradation rather than performance increase.

- a. Front for standard height Order individually as C-STR1675SPORT
b. Front for lowered height Order individually as C-STR1717SPORT
c. Rear for standard height Order individually as C-STR1794SPORT
d. Rear for lowered height Order individually as C-STR1795SPORT

- 7. Standard replacement top damper bracket.**

- a. R/H top bracket Order as 21A471
b. L/H top bracket Order as 21A474



- 8. Top damper bracket for cars with lowered suspension.** Maintains near upright position required for retaining maximum efficiency, available in pairs only Order as C-AJ3359



Gaz Performance

10

Gaz performance dampers as used by the Mini Spares sponsored Mighty Mini Race Series. Adjustable on the car.



10. a. Front standard height . Order individually as C-STN231
b. Rear standard height . Order individually as C-STN233
c. Front lowered height . Order individually as C-STN236
d. Rear lowered height . Order individually as C-STN237



Coil Over Kits



SPAX and GAZ coil over kit parts are available separately, dampers, springs or front brackets. The following as shown & listed are in kit form. The cheapest way to purchase the SPAX complete car set is by ordering as RSX519 or RSX520 kits.

for road/competition

Mini Spares Spax dampers/coil spring set up for road use and limited tarmac competition events. If used for off road or rough terrain, strengthening modifications will need to be made. Fits most standard 10", 12" and 13" wheels but wide tyres must be checked for clearance and spacers added when required. Full fitting instructions with kit.

11. a. STANDARD HEIGHT KIT. Full car set Order as RSX519
b. Rear damper/coil set std. 2 x rear Order as CK23
c. Front bracketry kit. 2 x brackets Order as CK25
d. Front damper/coil std. kit. 2 x front Order as CK26
e. CARS 1" (25mm) LOWERED KIT. Full car set Order as RSX520
f. Rear damper/coil set lowered. 2 x rear Order as CK24
g. Front bracketry kit. 2 x brackets Order as CK25
h. Front damper/coil lowered kit. 2 x front Order as CK27

Rubber Suspension Cones



In the past, there were two alternative rubber cones to the standard one - (which were red or blue spot). The first was produced at the request of BL's ST Department. These were considerably harder than standard and were developed to cope with the extra weight carried by the rally cars. The second was slightly uprated, but a more progressive cone, originally fitted to the Hatchback Innocenti 90/120. This has proven under testing to give a superior handling characteristic and now Mini Spares have further enhanced it using a selective, consistent, balanced rubber mix and cooling procedure to get far more consistent spring rates. We believe we have come up with the ultimate cone springs - ideal for road and performance requirements as the better working rubber cone helps reduce body roll. These are more expensive than the standard type because of the specially optimised manufacturing.

12. This shaped cone has a progressive balanced spring rate and when fitted initially sits higher than the standard original cones. Hilo's will be required Order as C-STR687
13. Standard cone spring Order as FAM3968
14. Bump stop to fit nut on rear cone, only required on late subframe 1992 on when rear wheels foul or ERA cars Order as ERA1190
15. Nut for holding bump stop to cone spring Order as 2A150

The original and only RAC homologated kit

Hi Lo Suspension Kit

This is the original 1970s adjustable HILO suspension kit that has now been modified to fit any Mini including post 1990 cars, where the rear subframe no longer has a hole for the adjusting bar to pass through. The improved HILO with adjustment by either spanner or hexagon bar, was originally conceived to overcome fitment problems on the rear of the vans, pickups, estates, Wolseley Hornets and Riley Elf, where drilling holes in the rear valance as per the old original way on the saloon caused problems.

Apart from raising and lowering the suspension by ordinary spanner or hexagon adjusting bar, its other advantage is getting all four corners of the car the same height, which along with the increased lip area where the rubber cone sits, slightly increases the progressive spring rate, it all helps to improve road holding. No drilling required, only a suspension cone compressor tool needed for fitment. Full instructions included, but see items 5 and 6.

A kit includes 2 cones and 2 knuckle joint plastic cups. All cones fit front and rear, but the pair of rods shown are required for rear fitment.

1. Pair Hilo units Order as part no HILO
2. Pair rear alloy rods and 2 strut plugs Order as part no HILO-01
3. Adjusting hexagonal rod. (if required) Available as required part no HILO-03



Suspension Knuckles

Vehicles from 1990 on, have a knuckle joint GSV1264 fitted to the front only which raises the suspension for extra clearance. The knuckle joint (item 5) has a built in spacer as shown and should be replaced by item 6 the original when fitting Hilos.

4. Knuckle with built in spacer as fitted to front only from 1990 on Order as GSV1264
5. a. Genuine original type knuckle for pre 1990 front & all rear Order as GSV1118
 b. Mini Spares original type knuckle for pre 1990 front & all rear Order as GSV1118MS
6. Rubber Gaiter and plastic knuckle seat are available individually
 a. Rubber Gaiter Order as 21A425
 b. Plastic knuckle seat Order as 21A423MS



Hilo and Damper Kits

Money saving suspension packages

- Car set of Hilos and Gaz - standard height adjustable dampers . Order as MSSK3000
- Car set of Hilos and Gaz - lowered height adjustable dampers . Order as MSSK3001
- Car set of Hilos and Kayaba - gas upgrade dampers Order as MSSK3003
- Car set of Hilos and Kayaba - gas self adjusting dampers Order as MSSK3004

Upper Arm Rebuild Kit



7. Upper arm rebuild kit for front suspension contains shaft, bearings, seals, thrust washers as shown, per arm. Order each side separately as MSK001

Tie Rods & Joints



8. Negative camber lower arms are made in dedicated forgings machined to give 1.5, 2.0 or 2.5 degrees more negative camber. All are heat-treated and crack-tested for safety. Sold in pairs.
 a. For an increase over 1.5 degrees negative from the standard arm. Order as C-AJJ3364
 b. For an increase over 2.00 degrees negative from the standard arm. Order as C-AJJ3364A
 c. For an increase over 2.50 degrees negative from the standard arm. Order as C-AJJ3364B

9. One piece forged spherical jointed rod end adjustable lower arms (with joint), to allow adjustment for camber on race cars. Outright sale in pairs. Heat treated and crack tested Order as C-AJJ3363
 We do not stock the cut and welded budget lower arms as we consider this a safety critical item.

10. Uprated adjustable tie rod, 5/8" thick, is essential when setting up castor/camber angles correctly. Have been successfully used on road/race cars since late 1970's. Sold as a pair only Order as 21A1091

11. Spherical jointed rod-end adjustable tie rods are for race use to allow fine castor adjustment and eradicate weaving effect when braking or accelerating hard. Sold with joints and in pairs Order as C-AJJ3365

12. Female spherical joints are available as a spare part as per those fitted to tie rods Order individually as MSRJF

13. Male spherical joints are available as a spare part as per those fitted to bottom arms Order individually as MSRJM

14. Small dustcover that fits over all rod end joints. (2 required per joint) Order pair as C-AJJ3368

15. Original large boot to protect rod ends from foreign bodies Order individually as C-AJJ3367



16. When the Mini suspension was designed over 40 years ago with rubber cones it was innovative and successful but not very suitable for today's driving. Softer cones in different shapes have proven to give a more comfortable ride but at detriment to the handling. Within the confines of the Mini suspension the Mini Spares full coil over kit eliminated the rubber cones and provides a good alternative. Another alternative is the coil spring cone conversion, which is a direct replacement for the rubber cone. Made out of top quality spring wire to eliminate compressing after a few years usage they have been used on the road in Japan and the USA for some time, however Mini Spares offer them for

Race use on tarmac where the suspension must be professionally set up.

Not suitable for undulating tarmac (rough roads)

Coil spring cone conversion. Available in three spring rates.

- a. For softer rate (Blue) Order as C-SRP100
- b. For firm rate (Red) Order as C-SRP200
- c. For competition spec rate (orange or green). Order as C-SRP250



Set your car geometry up correctly with our tool 10 and 11 on page 73

Mountings & Bushes

Subframe Mounts

1. Budget poly kit for lower and front of front subframe only Order as C-STR643



2. The set of four alloy top front subframe mountings are to replace the standard rubbers fitted on vehicles from 1976 to 2000. These alloy pads eliminate subframe movement, which is detrimental to handling. As the original perishable rubber pads were fitted to reduce noise, a slight increase is possible when changing to alloy (that never wears) Order as C-STR640

3. To compliment the top alloy blocks, those troublesome front rubber mountings can be replaced by alloy cast mountings which will not break and further enhance roadholding. These are also for vehicles built from 1976, and sold in pairs. When fitted with the top kit there is usually a small increase in noise level, but leave the rear rubber mounting as standard, or there will be a noticeable increase Order as C-STR641
4. Rear solid brackets for front subframe, for cars 1976 on, ideal for racing or road if increased noise is not a consideration Order pair as C-STR642

Bottom Arm Bushes - Pretty Poly Vs Rubber

Rubber and Polyurethane bushes have been a topic of conversation for some time now. Many have become obsessed about fitting brightly coloured plastic (polyurethane) bushes in place of any rubber bush they can find in the belief they will improve performance of whatever bush has been replaced. Whilst it is true that polyurethane is harder wearing - and therefore longer lasting - than rubber in many applications it is not necessarily the best material for the application every time. Polyurethane has greater abrasion resistance and is stiffer for a similar hardness, is much cheaper to produce - and therefore sells at a lower cost - and can be produced in a wide variety of colours. However it does not possess the elasticity, vibration absorbency or deflection tolerance of rubber, pretty much why manufacturers use rubber on production cars instead of the cheaper polyurethane.

A case in point is the bottom arm bush used in competition where spherical rod end joints are not allowed. Increasing the castor angle to improve handling distorts the inner bottom arm bush dramatically. The more castor angle used, the more dramatic the distortion. Whilst a rubber bush will tolerate this, a polyurethane bush will deform and stay deformed, gradually disintegrating affecting the bushes performance. Ideally a rubber bush with a metal sleeve in it to reduce the quantity of rubber in the installation to improve stability and control is the way to go. Mini Spares - after protracted investigation into materials, suitability and performance - have produced a rubber bush with consistent performance manufactured with a special angled bush to compensate for the increased leverage applied when adjusting (increasing) castor angle. The new offset performance bushes are available in 80 or 90 IRHD rubber for fast road/competition and race use respectively. Although being a little more costly than the plastic alternatives they do a far superior job.

5. a. Where the geometry has been changed the new road/competition bush with a moulded metal sleeve, with an angle to compensate for increased castor angles to prevent bush distortion Order as set of four C-STR632
- b. As above but in harder material 90IRHD. Race only Order as set of four C-STR631
6. Standard production sleeved rubber bush Order individually as 21A1882
7. A collared rubber bush in upgraded rubber is for cars where no geometry change has been made Order individually as 21A1882MS



Tie Bar Bushes

The same research program has encompassed the tie bar bushes. A well known fact amongst competition car drivers is that the outer bush needs to be hard to stop weaving when bracking, increasing car stability.

8. a. Our new kit therefore contains 2 hard outers and 2 softer inners. If too hard a material is used it can result in the threaded end of the tie bar (which is narrower) breaking off. This car set kit will suit any Mini for any pursuit from road to race. Order as C-STR627
- b. The standard rubber tie rod bush as also used on all our engine stabiliser kits Order individually as 31G1155



The Shore Hardness Scale

Shore hardness was the American measurement of rubber hardness in degrees and has been replaced in Europe by I.R.H.D. (International Rubber Hardness Degrees) as a guide 0°-30° IRHD is mainly sponge and microcellulose rubbers, 60° shore hardness or IRHD is regarded on middle of the range rubber. Medium is associated with 30°-85°. Hard is associated with 85°-100°. The higher the number the harder the rubber.



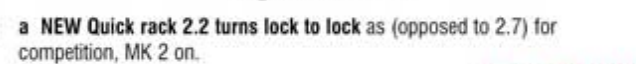
Steering Racks

Left Hand Drive



9

Right Hand Drive



- 9 a. NEW Quick rack 2.2 turns lock to lock as (opposed to 2.7) for competition, MK 2 on. Order as C-AJJ1570
R/H/D Order as C-AJJ1571
L/H/D Order as C-AJJ1571
- b. New standard steering rack, MK2 only. Order as FAM7306
R/H/D Order as FAM7307
L/H/D Order as FAM7307
- c. Exchanged steering rack, MK2 on R/H/D. You can buy a completely reconditioned rack from a leading automotive manufacturer. Refundable surcharge of £12.50 on old rack. Order as FAM7306MS

Steering Rack Gaiter Kits

Over the last 40 years there has been significant changes in manufacturers of steering racks, which have used these three common types of gaiter kits.

10. a. 4 1/2" long approx. Genuine with clips Order as GRG205
- b. 4 1/2" long approx. Non Genuine with clips Order as BHM7113
11. 6 1/2" long approx. Genuine with clips Order as GSV1056
12. 6 1/2" long approx. Where the two rack ends are different diameters (as shown) Order as GSV1004
13. Upper steering column plastic bush. to 1996
- a. Genuine Order as GSV1095
- b. Non Genuine Order as FAM2406
14. Lower steering felt bush. 1959-1985 Order as GSV1127
15. Lower steering column plastic bush. 1985-1996 Order as NAM8563



Track Rod Ends



16. Longer track rod ends are for use on lowered cars or cars with negative camber where the original has insufficient thread for the standard rod end to screw safely onto steering rack. Also fits Midget and Sprite. Order individually as C-AJJ1572
17. a. Track rod end for steering rack. Genuine. Order individually as GSJ1106
- b. Track end as above, but non genuine. Order individually as GSJ734MS

Anti Roll Bars

Anti-roll (sway) bars are effectively a length of either solid steel rod or tube mounted across the car in mountings generally fixed to the chassis at either front or rear, and sometimes both. An arm at each end links the bar to each wheel, so when the car rolls in a corner, the bar has to be twisted before one wheel can rise and the other fall. The resistance offered by the bar controls weight transfer and reduces body roll, thus improving cornering speed by altering under or over-steer. A very powerful instrument, it can have more beneficial effects than simply fitting stronger springs on the very limited option in a Mini!

Rear anti-roll bars

Recent re-development work has been carried out to improve the bars performance as well as extend fitment applications to all Minis irrespective of handbrake actuating lever length, damper size, or exhaust type used. Replacing the simple bent bar style is a more compact bar and blade design. Bonuses being lighter weight and reduced lever arm deflection. Further enhanced by shorter drop links.

The fixed rear bar uses a 0.50" (12.7mm) diameter steel rod with 3mm plate blades. To maximise efficiency, the only rubber bushes used are metalastic bushes in the drop links - unlike other kits that rubber mount the bar also. The adjustable rear bar uses a 0.75" (19mm) diameter steel rod with 4mm plate blades with spherical rod end drop links to give ultimate efficiency. Adjustment is via a series of holes along the blades. Both kits come complete with all necessary components for easy fitment.



1. a. Fixed rear anti-roll bar kit complete. Ideal for road/light rally use. Order as C-AJJ4009
- b. Adjustable rear anti-roll bar kit complete. Recommended for race use only. Order as C-AJJ4008

2. Adjustable front anti roll bar, 3/4" race only specialist suspension setting up required. ... Order as C-AJJ4006
3. Since 1990, all production Minis were fitted with slightly softer rubber suspension springs. Although giving a slightly more comfortable ride in a straight line, they allow more body roll when cornering. To combat this and regain the status quo, we have developed this product to mount simply to the subframe and tie-rods without fouling on any under-pinnings. It's also serviceable on earlier cars, further enhancing the Mini's great handling. We do, however, highly recommend using it in conjunction with the C-AJJ4009 fixed rear anti-roll bar for maximum effect and balance. It's also advisable to correct any suspension geometry discrepancies. Order as C-AJJ4004



Hydrolastic Pipes



4. a. Original shape metal hydrolastic pipe. Order as 21A1575 for R/H. Order as 21A1577 for L/H
- b. Easy bend in metal, but split into two parts for easy fitment. Not sided. Order as FSP4

5. Nylon flexible hydrolastic pipe tested to 1200 PSI replacement for genuine steel type which can be run inboard. Approximate length 10'9". Order as FSP3

Radius Arms



6. Radius arm for vehicles with dampers (known as dry suspension shock absorbers). Reconditioned complete with pins and necessary parts ready to fit.

For right hand side. Order as TRA33

For left hand side. Order as TRA32

Sold on exchange basis. Refundable surcharge £37.50

7. All the parts for reconditioning your own arms. The brass/bronze bush at the wheel side requires reaming.

Order as GSV1125

Available as kit per arm

Alloy Radius Arm Mount



8. This replacement box section is manufactured from an extruded aluminum-alloy for inherent strength and consistency of dimensions, whilst being as light as possible. Its design also allows easy alterations to both camber and tracking. Supplied in its natural finish, it is possible to paint it or plastic coat it if desired.

Using coil-over dampers specifically designed for the Mini with the offset-pin top mount, body modifications are generally not needed as this positions the damper body and coil away from the inner wheel arch. If conventional coil-over dampers are used, it will be necessary to modify the inner wheel arch. This product is suitable for road, rally, and race use. Order as CK22

Bump Stops



9. Rear Hydrolastic Large Dome Bump Stop. Order individually as 21A1520

10. Rear Hydrolastic Flat Dome Rebound Buffer. Order individually as 21A1517

11. Front Hydrolastic Bump Stop. Order individually as 21A1598

12. Front Dry Bump Stop pre 1976 (twin bolt) Order individually as 2A4332

13. Front Bump Stop 1976 on (single bolt) Order individually as FAM2764

14. Front Bump Stop 1976 on (made on poly with lower flat top). Order as FAM2764MS

15. Front Bump Stop Under Upper Arm. Order as 2A4267MS

16. The rearward pitch under hard acceleration can be minimised by the fitting of a progressive bump stop kit. This also improves the cars handling when fully laden. Originally developed for hydrolastic cars but often modified by customers to fit dry suspension. Front progressive bump stop kit. Order as C-AJJ4007

17. Rear progressive bump stop kit. Originally developed for hydrolastic cars but often modified by customers to fit dry suspension. Order as C-AJJ3313

18. Rubbers to fit either kit are available separately. Order as AHH7074 (same as the MGB)

Camber Brackets



1. **Pair of rear camber brackets** to give extra $1\frac{1}{2}^{\circ}$ negative camber over the standard setting. Order as MS69
2. **Pair of adjustable rear camber brackets** to adjust camber on rear suspension to suit individual requirements. Order as MS70
3. **Re-developed rear camber and track adjuster brackets.** The new design features fluted plates to allow fine adjustment yet positive location of the rear track and camber. The flutes allow 0.015"/0.381mm increments of track adjustment, positive location achieved by the clamping action applied by the standard radius arm pin nut. These will not slip in use. Camber adjustment is almost infinite by using the tried and tested sliding adjuster. Order as MS73

Subframes

All the genuine subframes are assembled on the original jigs to ensure correct fit and alignment of parts to the car body to provide correct castor and camber angle. It has the correct amount and positioning of welds. They are finished in black electrocoat paint which is the only method of ensuring every internal and external part gets protection to provide longevity.

4. Front Subframes

- Front Subframe** for cars with rubber mountings from 1976 to 1990. Order as KGB10022
- Front Subframe** for 1275cc cars 1990 on. Order as KGB10027
- Front Subframe** for front mounted radiator, twin points only. Order as KGB100500
- Towing Eye hooks**, replaces bolt that holds front subframe to front panel. Order individually as 21A1241



All Front Subframes are only available as genuine

5. Rear Subframes

- Dry Suspension Rear Subframe** non genuine. Order as MS45D
- Dry Suspension Rear Subframe** which uses rubber hanging straps 1992 on, non genuine. Order as MS45LATE
- Dry Suspension Rear Subframe** genuine. Order as FAM6292
- Subframe with fixing trunnions, standard bushes and metal exhaust hangers** for rubber exhaust straps as per 1992 cars on. (items 6b,7b-12 fitted). Order as KHB10024MS
- Hydroelastic Suspension Rear Subframe** non genuine. Order as MS45H
- Hydroelastic Suspension Rear Subframe** genuine. Order as 21A2160



Rear Sub Frame Fittings



- Poly bush for rear subframe**, small type sold as a set of four, competition only. Order as C-STR638
- Original rubber type bush**, sold individually. Order as 2A5818MS
- Poly bush for rear subframe**, large single bush type 1976 on, competition only. Sold as a pair. Order as C-STR639
- Standard rubber bush**, sold individually. Order as 21A2560
- Bracket for small bushes**. Order as 2A5819
- Short bolt**. Order as GFK5184
- Long bolt**. Order as SH605181
- Bracket for large bush** as fitted to front from 1976 on. Order as 21A2558
- Rear support pin**, shown with bush. Order individually as 21A1440MS
- Essential Bolt and Bush Kit** for replacing rear subframe, brackets are shown as Nos 6-12
 - 8 small rubber bush and bolt kit** for pre 1976. Order as MS44
 - 4 small and 2 large rubber bushes and bolt kit** for 1976 on. Order as MS43



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Suspension & Driveshafts



SUSPENSION

Complete Subframe Packages

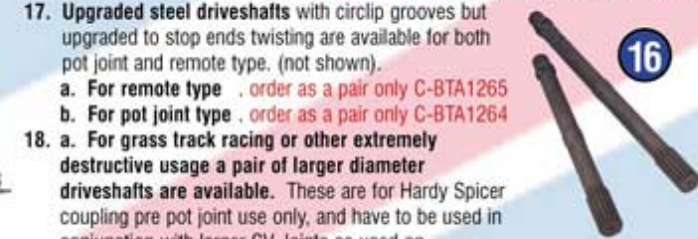
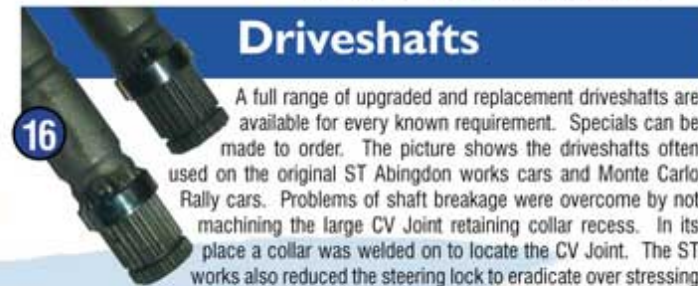
14. **a. Front subframe unit with suspension and running gear**, rubber mounted 1976-96 complete as shown, ready to bolt on. Order as HMP241001
b. As above but with subframe for twinpoint front mounted radiator 1996 on. Order as HMP241003
15. **a. Rear subframe unit with suspension and running gear** to fit any year (no brake limiter valve for early cars) single line brake cable as fitted 1976on. Order as HMP241002
b. Subframe only with fixing trunnions and standard bushes. (Items 6-12 fitted) 1992 on. Order as KHB10024MS



Driveshafts

A full range of upgraded and replacement driveshafts are available for every known requirement. Specials can be made to order. The picture shows the driveshafts often used on the original ST Abingdon works cars and Monte Carlo Rally cars. Problems of shaft breakage were overcome by not machining the large CV Joint retaining collar recess. In its place a collar was welded on to locate the CV Joint. The ST works also reduced the steering lock to eradicate over stressing of the shaft on full lock.

16. **a. The driveshaft with collar for pre-pot joint gearboxes when Hardy Spicer joints or rubber couplings were used.** Order as a pair C-BTA1267
b. The same collared driveshafts but for pot joint gearboxes with inboard CV Joints (Pot Joints). Order as a pair using part number C-BTA1268
17. **Upgraded steel driveshafts** with circlip grooves but upgraded to stop ends twisting are available for both pot joint and remote type. (not shown).
 - For remote type**. order as a pair only C-BTA1265
 - For pot joint type**. order as a pair only C-BTA1264
18. **a. For grass track racing or other extremely destructive usage a pair of larger diameter driveshafts are available.** These are for Hardy Spicer coupling pre pot joint use only, and have to be used in conjunction with larger CV Joints as used on Allegro/Maxis with 1750cc power units. Order the shafts only as a pair C-BTA1266
b. CV Joints are available as reconditioned units. Order individually as 37H7869
c. CV Gaiter kits are available individually. Order as GSV1186
19. **Standard replacement driveshafts but upgraded to EN24WX** to enable performance usage are available individually. (not shown).
 - For pre pot joint Mini, Autos and 'S'**. Order R/H shaft only as 27H4775
 - For pre pot joint Mini, Autos and 'S'**. Order L/H shaft only as 27H4776
 - For pot joint gearbox. Right hand**. Order as MS1246
 - For pot joint gearbox. Left hand**. Order as MS1247



20. **Ultimate group 'A' drive train kit** for autocross, rallying as used on Monte Carlo and RAC rallies. Order as C-BTA1270
21. **Ultra reliable and a direct replacement for standard units** these are made in aircraft spec material and are used by most current international Race and Rally teams. Due to stresses caused by machine cutting, all the splines are rolled. Eliminating spline lock and allowing free plunge in the inner joint results in better handling and less torque steer. The mechanical efficiency is greater than a pot joint, let alone a Hardy Spicer joint, thus reducing power losses and therefore maximising the potential of your engine. Order as part number C-BTA1275

Available to customer order only



7" Brake Disc and Pads

1. Cooper 7" diameter brake disc
..... Order individually as BTA193
2. Brake pads for 7" discs
..... Order as GBP102AF
3. CV Joint for Cooper and all drum
brake Minis Order as GCV1105



7.5" Disc Conversions



4. a. Complete Cooper 'S' 7.5" diameter disc brake kit for converting from drum brakes to discs. Includes Kevlar® brake pads ... Order as C-AJJ4028
b. As above but with 4 pot alloy calipers and necessary parts
..... Order as C-AJJ4028A
c. C-AJJ4028 (4a) but with brake disc shields Order as C-AJJ4028B
5. a. Brake discs 7.5" diameter and upgraded to GR260 - BS1452.
..... Order individually as GBD101
b. Good quality budget brake disc to Italian quality standard of UN1560-75 or GG25EURO (as in kit) .. Order individually as GBD101MS
c. Brake disc with 4 grooves to wipe brake pad clean to improve contact area and efficiency Order individually as C-21A1265
6. a. Drive flanges are upgraded to EN24T to reduce wear and cope with extra stress related to increase power outputs .. Order individually as 21A1270
b. Drive flanges in EN8 std material. Order individually as 21A1270MS
c. Upgraded two drive flanges, two 7.5" discs and screws.
..... Order individually as MSSK012
d. Conversion to change from 8.4" discs to 7.5". Includes calipers, drive flanges, brake discs, pads and fixings. Order individually as MSSK013
7. Caliper for Cooper 'S' Genuine AP lockheed, when using 7.5" disc brakes and 10" wheels or larger.
a. R/H Caliper. . Order as 27H4656. . b. L/H Caliper. . Order as 27H4657
8. Constant velocity joint, 'S' GT or any Mini 1984 on. 1 5/16" nut size.
..... Order individually as GCV1013
9. Front tapered roller bearings and oil seals .. Order per hub kit as GHK1140
10. Front hub bare upright with caliper mounting lugs.
a. R/H hub. Order as FAM2390 b. L/H hub. . Order as FAM2391
11. Tapered split washer. Order individually as FAM9270A
12. Front hub nut for items 8 and 11 Order individually as BTA249
13. Caliper to hub fixing bolt Order individually as 53K1048
14. Split pins for brake pads Order individually as PS610241

CV Gaiter Kits

15. CV gaiter kits. With plastic clips & grease. Order individually.
a. Universal kit. Fits any CV Order as 18G9027MS
b. Genuine kit. For GCV1105 small joint Order as GDG233
c. Genuine kit. For GCV1013 large joint Order as GDG202
d. Genuine kit with metal clips & grease.
For GCV1013 large joint Order as GSV1053



Swivel Pin Kit

16. Top and bottom swivel pin kit for one side only. Spring fits lower pin. All other parts are the same top and bottom either side.
a. Non Genuine Order as GSJ166MS
b. Genuine Order as GSJ166
- Each set is enough to do one hub only.



8.4" Disc & Lockheed Pad Set

17. a. A set of brake discs and lockheed pads. Order as car set MSSK014
b. Standard non vented disc as fitted to all Minis 1984on.
..... Order individually as 21A2612MS
c. Budget non vented disc as fitted to all Minis 1984on. As supplied in above kit
... Order individually as GBD90806MS



Grooved & Drilled 8.4" Discs

18. Vented type for use with 4 pot calipers. 8.4" disc.
..... Order pair as part number C-GBD496
19. Non vented type for use with twin piston calipers or Mini Spares four pot calipers when required. 8.4" disc.
..... Order pair as part number C-21A2612



8.4" Disc Conversions

VENTED BRAKE DISC KIT 20

20. a. Metro vented disc brake conversion kit for the Mini (as shown) will only fit on hubs with caliper mounting lugs as used on the Cooper 's', 1275GT and all Minis 1984 on. Kit includes Kevlar® street pads
..... Order as C-AJJ4029
20. b. Complete vented disc brake conversion kit as per C-AJJ4029 but with the hubs, bearings, CV joints etc. Order as C-AJJ4029A
21. Brake discs 8.4" Diameter. Late type vented brake disc for Metro (as Shown) or as supplied in conversion kit. Fits either side. Order individually as GBD496
22. Drive flanges
a. For vented discs only Order individually as NAM6450F
b. For non vented discs only Order individually as 21A2695
23. Calipers
a. Vented disc type caliper R/H Order as GBC2031
b. Non vented disc type caliper R/H Order as GBC141
c. Vented disc type caliper L/H Order as GBC2030
d. Non vented disc type caliper L/H Order as GBC138
24. Braided hose kit for caliper to convert for single line Mini system. Order as C-AJJ4024
25. For brake pads see item 3,4,19 or 20 on page 38.
26. Split pins and pad retainers for vented discs
a. Pins only for Mini 8.4" disc calipers Order a set as GBK1010
b. Pins and retainer clips for 8.4" disc calipers Order a set as GBK1026
c. Pins and retainer clips for 4 pot non vented calipers
..... Order a set as GBK1017
d. Pins and retainer clips for 4 pot vented disc calipers
..... Order a set as GBK1025



8.4" Diameter Standard disc and vented disc conversions

Brakes Pads & Caliper Pistons

Improvements in braking efficiency can be achieved to a certain degree by replacing the standard asbestos free brake pads/shoes with alternative items, employing different compounds. The Mintex C-TECH range produce asbestos free material M1144 which replaced the M171 type and is ideal for upgrading brakes when fade occurs. The centre groove in the pad is to stop dust build up.

Also available from the USA is the much acclaimed carbon metallic compound which is the ultimate in current brake pad technology. Its broad operating temperature band encompasses everything from M171, DS11 and M1155. Exceptional co-efficient of friction, combined with a low wear rate make these a must for all racers.

CARBON METALLIC COMPOUND IS NOT RECOMMENDED ON DRILLED OR GROOVED DISCS.

1. Brake pads for 7" diameter brake disc as fitted to 998cc Cooper only.
 - a. Unipart/Rover standard material Order as GBP102AF
 - b. In C-TECH M1144 material Order as C-AHT223



2. Brake pads for 7.5" diameter brake disc as fitted to Cooper 'S' and early 1275GT.
 - a. Unipart/Rover standard material Order as GBP103AF
 - b. In C-TECH M1144 material Order as C-8G8995
 - c. In carbon metallic material Order as C-8G8993
3. Brake pads for 8.4" diameter brake discs, with single pot calipers as fitted to all Minis 1984 on, later 1275GT. MG Midget/Sprite.
 - a. Genuine Lockheed Order as GBP281MS
 - b. In C-TECH M1144 material Order as C-AHT16
4. Brake pads for 8.4" diameter brake discs, when using any 'A' type caliper 1984 on or alloy 4 pot caliper. Pads have 2 3/4" (70mm) hole centres for retaining pins.
 - a. Unipart/Rover standard material Order as GBP258AF
 - b. In C-TECH M1144 material Order as C-8G8994
 - c. In carbon metallic material Order as C-STR987

Caliper pistons in 303S stainless steel

Centreless ground for micro finish to stop sticking, not a mass produced cheap gimmick.

5. For 997/998cc Cooper 7" disc Order each piston individually as 17H7913
6. Cooper 'S' 1275GT 7.5" disc Order each piston individually as SAAS501
7. Mini 1984 on 8.4" disc Order each piston individually as 114713
8. Metro and Mini Spares 4 pot caliper Order each piston individually as SAAS1022

Genuine AP Caliper piston seal kit, per caliper

9. a. 4 pot 'A' type Rover caliper repair kit Order as GRK5003
- b. 'S' and 1275GT 10" disc caliper repair kit Order as GRK5006
- c. 8.4" disc type 1984 on, caliper repair kit Order as GRK5008
- d. 997/998cc Cooper repair kit Order as GRK5009

On something as safety critical as brakes we only use genuine AP Lockheed seals

EBC Brake Pads

Latest brake pad technology on the market from EBC. Space age Dupont Kevlar that will stop you faster, fade resistant with immediate pedal response. (No warm up time required) Not only do they give low brake disc wear the non-asbestos kevlar produces less brake dust, which usually contaminates alloy wheels. If you have alloy wheels EBC Pads are a must.

18. Black Stuff Kevlar street pads for road/fast road use.
 - a. 7.5" diameter disc Cooper 'S', 1275GT Order as GBP103KEVLAR
 - b. 8.4" diameter disc Late Mini Order as GBP281KEVLAR
 - c. Vented disc/Metro/Mini Order as GBP258KEVLAR



Brake Shields

10. Right hand pair of disc shield covers.
 - a. Pair of 7.5" covers Order as MSSK1400
 - b. Pair of 8.4" covers Order as MSSK1402
 11. Left hand pair of disc shield covers.
 - a. Pair of 7.5" covers Order as MSSK1401
 - b. Pair of 8.4" covers Order as MSSK1403
 12. Shield to hub steady bracket.
 - a. R/H Order as BTA1208
 - b. L/H Order as BTA1209
- Screws for joining disc shields together-use SE910161 and nuts use GFK3210



13. Rear Brake Shoes in axle sets of four
 - a. 1 1/2" wide front brake shoes (4) Order as GBS102MS
 - b. 1 1/2" wide front brake shoes(4) genuine Order as GBS733AF
 - c. 1 1/4" wide rear brake shoes(4) Order as GBS101MS
 - d. 1 1/4" wide rear brake shoes(4)genuine Order as GBS834AF

Fly-off Handbrake

14. Fly off handbrake conversion so popular in the 60's and commonly used on rally cars. The only parts supplied are the new pawl pictured and two rivets, with full fitting instructions. Order as C-AJJ4019
15. Alloy handbrake lever grip Order as SP224



Brake Ancillaries

16. Protector plates for protecting hose to calipers as used on works cars. Sold as a pair Order as C-AJJ3369
17. Light weight handbrake cable quadrants for dry suspension
 - a. Per pair as shown Order as C-AJJ4018
 - b. or singularly for the original standard item Order as 21A2454



Alloy Calipers



COMING SOON ALLOY CALIPERS IN A VARIETY OF COLOURS



WEIGHT COMPARISONS

4 piston alloy caliper	1.69kg
'S'/1275GT caliper	2.66kg
Late Mini caliper (post 85)	3.46kg
4 piston Iron caliper	3.48kg

The advantage of alloy calipers is that they dissipate heat quicker, reducing fluid boiling. Now fitted with stainless steel pistons which albeit, have added 0.54g to the weight, they further improve performance by reducing heat transfer to brake fluid, also providing much longer life expectancy against corrosion, especially on road cars. The design of the caliper also helps expel pad dust and heat from the contact area. By using standard metro pad sizes which are larger and by virtue of 2 pistons both pushing against the pad, it controls the pad contact and brake efficiency.

1. Pair of 4 pot alloy calipers to fit 7.5" diameter brake discs where 10" wheels are used. The pads have to be modified by grinding/filing off a small corner section of the metal on two pads only which does not affect the quality on this fitment. The kit contains 1 pair of calipers, plus longer hub bolts and a set of retaining clips and pins for the pads. Brake pads are NOT included owing to customers different requirements. Order as C-AJJ4023
2. Pair of 4 pot calipers for use with 8.4" diameter brake disc and 12", 13" wheels. Kit contains 1 pair of calipers with retaining clips and pins. Brake pads are NOT included owing to customers different requirements. Order as C-AJJ4022
3. The fitting kit for either set of calipers when using vented brake discs from the Metro. The brake disc will obviously require machining down from 8.4" to 7.5" for use on 10" wheels for C-AJJ4023 calipers. Complete with 4 spacers and correct retaining clip and pins. Order as C-AJJ4021

Master Cylinders

4. Original Lockheed metal type canister master cylinders. "Lockheed made in England" is embossed into the surface, as supplied by the factory.
 - a. Clutch master cylinder for every Mini. Order as AAU4969
 - b. Brake master cylinder for standard Mini 2.25" high canister. Order as GMC171ORIGINAL
 - c. Brake master cylinder for Cooper S/1275GT larger fluid tank 3" high canister. Order as GMC 172



Master Cylinder Reservoir Extension

5. Master cylinder extensions. Made in translucent white nylon, enabling quick and easy fluid level checks. Also allows extra fluid to be carried. Order as BHA4661



Brake Lines

6. Easy bend non rusting brake pipe kits, all pipes are sold separately if requested. Also available in L/H drive change GB prefix to GL.
 - a. Single line, dry suspension, disc or drum brakes, no servo, 1959 on. GB4991
 - b. Single line, dry suspension, disc brakes with servo, Cooper S & 1275GT etc. GB4992
 - c. Front to rear split, no servo, 1980-88 approximately. GB4999
 - d. Front to rear split with servo 1989 on. GB5000
 - e. Single line, hydrostatic suspension, disc or drum, no servo. GB5001
 - f. Single line, hydrostatic suspension, disc brakes, with servo, Cooper S. GB5002
 - g. Diagonal split system van/estate 1978 on. GB5007
 - h. Front to rear split 1978-80 Saloon. GB5008
 - i. Front to rear split 1977-78. GB5014
 - j. Twin diagonal split with 4 way failure switch. Up to 1982. GB5021



Hydraulic Hoses

7. Rubber brake hose sets
 - a. Car set of front and rear rubber brake hoses for drum brake Mini (longer front hoses). Order as GBH170KIT
 - b. Car set of front and rear rubber brake hoses for disc brake Mini. Order as GBH249KIT



Single front hoses are available individually as the numbers above but without the word 'kit' and all rears are the same part number GBH250

Steel braided hoses

Steel braided brake and clutch hoses have a PTFE inner which helps to eliminate the spongy pedal feel under arduous conditions, and giving greater efficiency. The outer braided stainless steel cover minimises wear/damage and corrosion. All our braided hoses now have swaged ends to conform to Japanese, New Zealand and South African safety requirements.

8. a. Set of 4 brake hoses 2x front and 2x rear brake hoses. Order as C-AJJ4026
- b. Set of 5 hoses, kit as above but with clutch hose included pre Verto. Order as C-AJJ4027
- c. Set of 5 hoses, kit as above but with clutch hose included for Verto. Order as C-AJJ4027B
- d. Pair of front braided hoses only. Order as C-AJJ4030
- e. Pair of rear braided hoses only. Order as C-AJJ4031
9. Pair of rear hoses with banjo fitting. These replace the original hose and metal brake pipe fitted to the wheel cylinder. No modifications are required and are of special interest to owners of severely lowered cars where pipes can get crushed. The kit contains the banjo bolts to fit the wheel cylinder and tie wraps to hold hose to radius arm. Order as C-AJJ4031B
10. Braided clutch hose for pre Verto clutches. Order as CAJJ4025
11. a. Banjo type braided clutch hose for Verto clutches. Order as CAJJ4025B
- b. Braided one piece long clutch hose. Replaces existing rubber hose and metal pipe. Can be used for either Verto or Pre Verto. Order as CAJJ4025COMP
12. Set of braided hoses for Metro 4 pot calipers when converting for use on a Mini. Order as C-AJJ4024





1. Servos. This is the only remote servo available for the Mini from Lockheed (now Delphi). Although now only available in a kit with full fitting instructions it is the same servo as fitted to the Cooper S MK3 and 1275GT, but can be fitted to any single line brake system from 1959 on. The servo when sold separately as 13H7939 was about the same price as this full kit, therefore the brackets can be disposed of and proper Cooper S brackets (21A2254) can be fitted. **Order kit as SEN43**

2. Brake Servo for MK1/2 Cooper 'S'. This is not the original Lockheed type, but a close copy that has been reproduced for customers who require the authentic look without using the MK3 'S' Lockheed Servo that was previously the only one available **Order as 21A1293**



Also shown is the repair kit specifically for this servo **Order as AXE244K**



3. a. Servo that will only bolt on to the last type of master cylinder as fitted by Rover from 1989 on with split front to rear brakes, which had different pedal box linkage etc. **Order as GSM119**
b. Repair kit for GSM119

4. The original repair kit for Lockheed servo MK1/2 Cooper 'S' . . . **Order as 18G8189**

5. The original repair kit for SEN43 or 13H7939 servo, MK3 Cooper S **Order as 18G8938**

6. Servo fitting kit is for all single line brake pipe cars when using SEN43 servo. When this kit is used in conjunction with this servo it makes the set up that was used on the Cooper 'S' MK3. **Order as MSSK007**



7. The Servo fixing brackets are also available separately, as a pair:

a. MK3 fixing brackets, as shown. Only fits 13H7939 MK3 Servo **Order as 21A2254**

b. MK1/2 fixing brackets. Only fits 21A1293 or original Servo. **Order as 21A1294**

8. Inline valve required to stop petrol coming back into the servo. This is not supplied in the Lockheed servo kit. If the servo has a built in valve this is also required in the hose line to ensure against contamination **Order as 17H2646**



9. A pair of braided servo hoses and fittings are for cars from 1989 where the servo is fitted to the brake master cylinder as standard. Once fitted the servo can be moved to one side as required to gain access for work on the clutch, engine mounting or stabiliser bar without the necessity of having to remove the pipes and bleed the system. Great idea! **Order as SEN45**

Order as SEN45

Brake Drums



10. Alloy brake drums - pair, with built in spacer and by virtue of its finned design dissipates heat quicker which in turn helps reduce brake fade **Order as SUPERFINS**

11. Standard cast mini brake drum for front or rear **Order individually as GDB105**

12. Rear cast brake drum as fitted to Cooper 'S' 1275GT and all Mini's from 1984on. Characterised by the built in spacer. **Order individually as GDB106**



Brake Backplates

13. Rear Brake Backplate

Rear backplates are sold less adjuster screw and wedges. If the small wheel cylinder-locating hole is on the opposite side another hole should be drilled rather than removing the pin from the cylinder.

a. For R/H **Order as 21A1058**

b. For L/H **Order as 21A1060**

14. One adjuster and 2 wedge kit **Order as 17H7620**

a. One adjuster only **Order as 17H7619**

b. Single wedge only **Order as 17H7618**



15. Gaiter for backplate and brake lever arm **Order as 17H7612**

16. Car set of 4 rear brake shoes return spring **Order as GBK1834**

17. Genuine AP/Rover wheel cylinder, which includes gasket and clip (items 18 & 19)

a. Rear cylinder with .75" Internal bore size **Order as GWC1102**

b. Rear cylinder with .625" Internal bore size **Order as GWC1101**

18. Rear wheel cylinder locating gasket, available individually **Order as 37H4642**

19. Rear wheel cylinder clip, available individually **Order as 17H7949**

Top quality non genuine cylinders are available using MS as a suffix.

(For other sizes use AKM2 parts catalogue)

20. Front brake backplate or cars with two wheel cylinders per backplate from 1968 on are made with the adjuster in place. If you have facilities to drill and remove the old adjuster snails a repair kit MPK1 (item 21) will repair one car set.

a. For the R/H Backplate **Order as 37H2013**

b. For the L/H Backplate **Order as 37H2014**



21. Repair kit for replacing adjusters on front brakes that have 2 cylinders per back plate only. Full repair instructions enclosed. Kit replaces both wheels **Order as MPK1**

22. Car set (4) front brake shoe return springs **Order as GBK1733**



23. Genuine AP/Rover wheel cylinders includes gaskets (item 24)

a. For R/H Cylinder .9375 bore

. **Order individually as GWC126**

b. For L/H Cylinder .9375 bore

. **Order individually as GWC127**

Top quality non genuine cylinders are available using MS as a suffix.

24. Front wheel cylinder locating gasket.

. **Order individually as 37H3833**

25. Wheel cylinder spring (4) to brake shoe must be fitted to ensure braking efficiency are available separately.

. **Order individually as 27H3753**



Minilife Wheels

1. **Minilife wheels only available from Mini Spares** (manufactured in the UK) have been sold world wide since the early nineties and are a faithful reproduction of the original Minilites used by the Abingdon Special Tuning department and classic cars of the 60's and 70's. The original type has stainless steel nuts and a tapered washer for better centralisation. Silver all over with 67 mm centre cap.
 - a. For 5x12" including nuts/cap Order as C-21A1967
 - b. Or as an alternative Mini Spares offer the same wheel but machined to accept standard CN5 chrome wheel nuts (included) - saving £4 per wheel... For budget 5x12" including nuts/cap Order as C-21A1021



2. **The Original thick front rimmed 4 1/2 x 10" Minilife wheel** as per Abingdon Special Tuning design that fits within the bodyline without requiring arches. Made in LM9 as per all our wheels (LM9 casts better with more impact strength and less porosity) with 67mm cap and stainless steel sleeved nuts Order as C-21A1968
3. **This is Mini Spares Centre's own Minilife 5x12" wheel** shown here in Anthracite with diamond cut edge. From the same designs as all the Minilife range, depicting the sporting character of the 60's and 70's, which have the image favoured for the 90's Coopers. Also available in Silver and in 4 1/2 x 10". Complete with front fitting centre cap to fit the 67mm hole and stainless steel sleeved wheel nuts that have a tapered washer for better centralisation.
 - a. For anthracite diamond cut. For 5x12" ... Order as C-21A1965
 - b. For silver diamond cut. For 5x12" ... Order as C-21A1966
 - c. For anthracite diamond cut. For 4 1/2 x 10" Order as C-21A1963
 - d. For silver diamond cut. For 4 1/2 x 10" Order as C-21A1964

When comparing prices, remember Minilife wheels include new stainless steel sleeve nuts and washers, as per originals.

**All diamond cut edge wheels have 6 months guarantee.*

Minilife Nuts & Centre caps



4. **Nuts and Centre cap for Minilife Wheels.** Fit Minilife wheel C-21A1967 Wheel Nuts Order as C-21A1969 Centre Cap... Order as C-21A1970 Minilife Sticker Order as STICKER26
5. **Nuts and Centre cap for Minilife Wheels.** Fit Minilife wheel C-21A1021 Wheel Nuts Order as CN5 Centre Cap... Order as C-21A1970 Minilife Sticker Order as STICKER26

Minilite Wheels



6. **These wheels, from the Minilite company formed in the early 90s,** are not the exact originals from the 60's and 70's but from new tooling with similar looks and the company name embossed on the rim. The new company logo is on the 65mm centre cap. Only 10" rim is carried in stock, though 4 1/2"/5"/6" widths are obtainable to customer's order. Caps and nuts supplied.
 - a. 5 x 10" Order as C-21A1900
 - b. 5 x 10" Order as C-21A1901
 - c. 6 x 10" Order as C-21A1902
 - d. 6 x 13" Order as C-21A1903
 - e. 5 x 12" Order as C-21A1904

Genuine Performance Industry Competition Wheels

7. **Australian 8 spoke performance wheels.** Don't be confused with names and copies, these are the original Australian 8 spoke wheels made famous in racing and motorsport with CN5 nuts and centre caps.
 - a. For 6 x 13" Order as C-21A1971
 - b. For 7 x 13" Order as C-21A1972

Genuine Revolution Wheels

8. **Revolution 4 Spoke.**

The original style 4 spoke specification which are complete with centre caps for the 63mm hole and stainless steel sleeved wheel nuts, except for the 13" wheel, which has a different size chrome nuts.



- a. For 6x10" Revolution 4 spoke Order as REV 02
- b. For 5x12" Revolution 4 spoke Order as REV 03
- c. For 6x12" Revolution 4 spoke Order as REV 04
- d. For 6x13" Revolution 4 spoke Order as REV 05



9. **Stainless steel Revo/Mamba wheel nut** (except 13") Order as REV 09
10. **Chrome wheel nuts for Revo 13" except RFX** Order as REV 10
11. **Chrome locking wheel nuts for Revo 13"** Order as REV 08

For full range of Nuts, Tyres and wheel spacers see page 43

Mini Spares Alloy Wheels



Flat front outer rim as per our 4.5 Minilife. Uses standard type 60° angle wheel nuts.
1. 5x10" Alloy 8 spoke wheel with 56mm centre cap, less wheel nuts.

..... Order each wheel individually as WHL1000

2. 6x10" Alloy 8 Spoke Wheel with 56mm centre cap, less wheel nuts.

..... Order each wheel individually as WHL1001

Uses standard pre 1984 type on nuts. 88G322 or CN1/4 (for chrome)

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Wheels and Centre Caps



WHEELS

Nuts & Centre Caps



7. **a. Cap for Minator 5 & 5 1/2x13" wheels.** 61mm wide front fitting with badge/logo face area of 40mm, 33mm in depth.
Order individually as WHL1010
- b. Cap for Minator 6 & 7x13" wheels.** 55mm centre hole front fitting. (not shown) Flat 13mm in depth cap. Order individually as WHL1018
8. **a. Weller steel wheel cap for 10" wheels.** 63mm back/rear fitting with badge/logo face area of 45mm. Comes with Weller sticker separate.
..... Order individually as WELLA CAPS
- b. Weller steel wheel cap for 12" wheels.** 69mm back/rear fitting with badge/logo face area of 45mm. Comes with Weller sticker separate.
..... Order individually as WELLA CAPS12
9. **Minilife cap,** 67mm wide front fitting with badge/logo face area of 50mm. Minilife sticker separate. Fits most original Minilife wheels (check size) Order individually as C-21A1970
10. **Mamba cap,** 76mm wide, front fitting. Order individually as WHL1014
11. **GB alloy cap,** 60mm wide rear fitting Order individually as WHL1003
12. **Revolution plastic front fitting cap.**
 - a. 63mm diameter front fitting for all 4 spoke type plus 6x13 RFX.
..... Order individually as REV06
 - b. 55mm diameter for RFX 5 spoke 12" wheel only.
..... Order individually as REV07

Minator Alloy Wheels

3. 13" Minator 8 spoke alloy wheel is available in silver. Uses standard nuts as fitted to steel wheels 1984 on with 60 degree taper or chrome CN2 or CN5 as an alternative. Supplied less nuts.



a. 5x13" Minator with 61mm centre cap, in overall silver to fit Mini.

..... Order individually as part number WHL1005

b. 5 1/2x13" Minator with 61mm centre cap, in overall silver to fit Mini.

..... Order individually as part number WHL1008

c. 7x13" Minator with 55mm flat centre cap, in overall silver to fit Mini.

..... Order individually as part number WHL1020

Original Rover Alloy Wheels

4. Sportspack Wheel, 6x13" - as fitted from 1996on. Order individually.

a. Genuine Rover wheel Order as RRC109640MNH

b. Copy of Rover wheel Order as RRC109640MS



- 5. a. Copy of Sportspack wheel** designed to fit earlier cars with original plastic arches (pre 1996) and only 5x13". Wheel geometry correction will probably be required to stop wheels fouling on bodywork. Order individually as WHL1017
- b. Mini Cooper laurel sticker** 50mm wide as shown on wheel.
..... Order individually as STICKER 21

Tyre Valve Caps

6. Alloy Tyre Valve Caps. Available in a choice of anodised colours



- a. Blue alloy set of four** Order as MTC6
- b. Red alloy set of four** Order as MTC5
- c. Silver alloy set of four** Order as MTC3

Rover Plastic Centre Caps

Centre Caps for 12" and 13" Cooper and Sportspack Wheels with 52mm centre.

13. Green MINI cap
Order individually as DTC100680MNH

14. Mini Cooper silver on white
Order individually as DTC100690MNH

15. Mini Cooper black with white writing
Order individually as DTC100610RJS

16. Black cap with no motif
Order individually as NAM9105PMD

Decals for centre caps

17. Minilife 50mm wheel decal
..... Order as STICKER26

18. Mini Cooper 50mm wheel decal
..... Order as STICKER21



Top view showing emblems

Push Fit Plastic Centre Caps

Tyres



1. Falken 165x70x10 (FK-07E New Design) Order as TYRE07



2. Falken 165x60x12 (FK-06G) Order as TYRE01



3. Yokohama A032-R 165x70x10. Aqua tusk tread design to increase traction in the wet. This symmetric tread pattern and advanced high grip tread compound improves braking and cornering performance. Order as TYRE15



4. Yokohama A008 165x70x10. High performance, competition grade tyre with asymmetric tread pattern ... Order as TYRE 08



5. Yokohama A048R 165x55x12 tyre. Order as TYRE19



6. Yokohama A539 tyre. Yokohama's latest road tyre tread pattern is available for 12" and 13" wheels. For 165x60x12 Order as TYRE17 For 175x50x13 Order as TYRE18



7. Bridgestone 175 x 50 x 13. Order as TYRE 20



8. Tyre Pressure Gauge. Angled for easy use. Order as TOOL06

Locknuts



9. a. Set of 4 locking nuts for latest Mini/Cooper 8 Spoke Alloy. Order as LOCKNUT 1
 b. Set of 4 locking nuts for Mamba/Revo 10" wheels Order as LOCKNUT 2
 c. Set of 4 locking nuts for Minilife/Original Minilite Wheel Pre 1980. Order as LOCKNUT 3
 d. Set of 4 locking nuts for 13" RFX/Phoenix/Superlite large radius seat CN5 nut ... Order as LOCKNUT 4
 e. Set of 4 locking nuts, Mini 12" steel - 1984 on, Wella CN2/5-type Order as LOCKNUT 5
 f. Set of 4 locking nuts, Mini 10" steel - Pre 1984. GB alloys CN1/4-type Order as LOCKNUT 6

Wheel Spacers



10. Pair of wheel spacers with studs 1" (25mm) Order as CW16
 11. Pair of wheel spacers with studs 3/4" (19mm) Order as CW15
 12. Pair of wheel spacers with studs 3/8" (10mm) Order as CW1
 13. a. Pair of wheel spacer shims 3/16" (5mm) Order as SR4
 b. Pair of wheel spacer shims 3mm wide Order as SR3
 14. Wheel stud's length starts from under head to end, not end to end.
 a. Stud length 35mm with thread length 22mm Order as 21A2064
 b. Stud length 50mm with thread length 29mm Order as 21A2064L
 c. Stud length 32mm with thread length 23mm Order as NAM5645
 d. Stud length 55mm with thread length 20mm Order as 21A1278
 e. Stud length 58mm with thread length 19mm Order as ENJO-1039
 f. Stud length 78mm with thread length 27mm Order as ENJO-1040

Wheel Nuts*



15. No. 6 Chrome long nut, equivalent type fitted to Mini steel wheels pre 1984, round radius bottom. Order as CN1
 16. No. 6 Chrome long nut with large round seat as per steel wheel pre 1984. Can be used for CN1 if required Order as CN4
 17. No. 5 chrome long nut 60° angle seat, equivalent to type fitted to all 12" steel wheels 1984 on, 60° angle bottom. Fits Weller and Minitor. Order as CN2



18. No. 5 Chrome long nut with large 60° angle seat fits Superlite, Revo RFX 6 x 13 or any wheels. 1984 on. The large seat type is considered a safety feature.
 a. Chrome finish Order as CN5
 b. Red anodised finish Order as CN5RED
 c. Blue anodised finish Order as CN5BLUE



19. Sleeve nut and chamfered washer in stainless steel for Minilife Order as C-21A1969
 20. Sleeve nut in stainless steel for Mamba/Revolution with washer. Order as REV09
 21. a. Std. Mini Wheel Nut, round seating, used from 69-84 as shown. Order as 88G322
 b. Std. Mini Wheel Nut, 60° seating for steel wheels, 84on not shown Order as 113087



22. Basic Wheel Nut without cover for Rover Cooper Alloys 11/16" nut size Order as AJM1139
 23. Stainless steel outer cover wheel nut for Rover Cooper Alloys 11/16" nut size Order as NAM9075
 24. Chrome Sleeve Nut & flat washer for Wolfrace slot and original Minilite. Will also fit the later Minilite Company wheel 5x10 only. Order as CN3

*All nuts sold individually

Mk1 Classic Door Parts



- 1. R/H door pocket alloy kick plate Order as 14A7176
- 2. L/H door pocket alloy kick plate Order as 14A7177
- 3. Red door check strap Order individually as 14E4289
- 4. Grey door check strap Order individually as 14E4290
- 5. Black door check strap Order individually as ALE1221
- 6. Green door check strap Order individually as 14E4291
- 7. Check strap bracket on body, two per car Order individually as 14A6745
- 8. Strap retainer, recessed screw holes, four per car Order individually as 14A764
- 9. Door pocket stiffener plate, two per car Order individually as 14A6744
- 10. Check strap screws, 8 per car less nuts Order individually as SG604073
- 11. a. R/H vertical draught excluder between sliding door glass.... Order as EAM8530
- b. L/H vertical draught excluder between sliding door glass ... Order as EAM8531
- 12. Nylon dove tail guide for door Order individually as 14A6833
- 13. Retainer guide plate for dovetail on doorframe. Order individually as 14A6835



- ### Sliding Window Catches for Front Door
- 14. a. Front plastic window catch R/H Order as 24A1194
 - b. Front plastic window catch L/H Order as 24A1195
 - 15. a. Rear plastic window catch R/H Order as 24A1196
 - b. Rear plastic window catch L/H Order as 24A1197
 - 16. Sealing gasket for window catch Order individually as 24A1198
 - 17. Chrome boss to fix catch to window. Order individually as 14A8151
 - 18. Correct size fibre washer for chrome boss. Order individually as 14A7065B
 - 19. Chrome headed screw for boss Order individually as RMP307
 - 20. Complete car set of 4 catches and ancillaries Order as MSSK015



- 21. a. Original type Mk1/2 internal door pull cable for sliding window type doors Order individually as 14A6889
- b. Rovers latest style handle to replace the Mk1/2 internal door pull cable Order individually as GLZ119A



- ### Mk3 Interior Door Hinges
- 1970 wind up window cars
- 22. a. Top Right Hand interior door hinge Order as CZH202
 - b. Top Left Hand interior door hinge Order as CZH203
 - 23. Bottom hinge either side Order individually as CZH212
 - Complete 4 hinge car set (money saver) Order as MSSK017



Window Mouldings



- 24. a. Upper window moulding as per original Cooper and 'S' MK1/2 in stainless steel for sliding windows only - supplied without fixings.
R/H Order as 14A9773 L/H Order as 14A9774
 - b. Upper window moulding manufactured to fit MK3 wind up window doors only in same original shape - supplied with 13H743 fixing rivets
R/H Order as MS67 L/H Order as MS68
 - 25. Lower window outer moulding as per original for Cooper and 'S' MK1/2 in stainless steel for sliding window only.
R/H Order as 24A341 L/H Order as 24A342
Special clip for above available as 13H525
 - 26. Interior moulding and seal for all wind up window models. Fits either side.(clips are EYC10048 5 required) Order as EJU10003
 - 27. Outer door moulding and seal for wind up windows 1970 on as original on Cooper 'S' and MK3 upto the introduction of black protective end caps. (clips are ADH3809 4-5 required)
R/H Order as CZH1666 L/H Order as CZH1667
 - 28. Same as No. 27 but with protective black ends from 1981 on, outer window moulding with seal. (clips are ADH3809. 4 - 5 required)
R/H Order as PAM1014 L/H Order as PAM1015
- Mouldings are also available in car sets with clips, providing extra value.
A pair of CZH1666/7 plus clips Order as MSSK2100
A pair of CZH1666/7 plus a pair of EJU10003 plus clips Order as MSSK2101
A pair of EJU10003 plus clips Order as MSSK2102
A pair of PAM1014/5 plus clips Order as MSSK2103

Stays & Hinges - Mk1/2



- 29. Original 1960's accessory metal door stay kit Order car set as BG5401
- 30. Door hinges, bare (zinc alloy with stainless steel fittings) for all Minis with external door hinges.
a. Set of four hinges .. Order as 14A6818K
b. Upper R/H Hinge ... Order as 14A6818
c. Upper L/H Hinge ... Order as 14A6819
d. Lower R/H Hinge ... Order as 14A6820
e. Lower L/H Hinge ... Order as 14A6821
f. Gasket for hinges to 'A' Panel Order individually as BMP135
g. Gasket for hinges to Door Order individually as ALA7844



- 31. Replacement door hinge pin Order individually as 37H3044
- 32. Replacement door hinge bush Order individually as part number 37H3043 or one each as a single hinge repair kit (31 & 32 together) Order as MS15
- 33. Tool for fitting & removing the bush from the external hinges Order as TOOL15
- 34. Old hinge pin removing punch Order as TOOL16



Front Panels



- 1 a. Mk1/2/3 Front Panel pre rubber mounted subframe Order as 14A8308
- b. Mk4 Front Panel for rubber mounted subframe 1976 on Order as ALA8619
- c. Mk4 Front Panel with AFU3389 side lamp and has 2 spotlight holes Order as ASJ36002
- d. Mk6 Front Panel twin point injection with front mounted radiator Order as ASJ360070
2. Front Panel Stiffeners
 - a. Stiffener bracket as fitted to front panels is available if required Order as ALA4583
 - b. Original angled stiffener to allow fitment of oil cooler as per Cooper S Order as 24A1918

Mini Wings

- 3 a. Mk1/2/3 Right Hand wing Order as 14A7240
- b. Mk1/2/3 Right Hand wing -Non genuine Order as MS1R
- c. Mk1/2/3 Left Hand wing Order as 14A7241
- d. Mk1/2/3 Left Hand wing -Non genuine Order as MS1L
- e. R/H wing with side repeater hole Order as BMP454
- f. R/H wing with side repeater hole -Non genuine .. Order as BMP454MS
- g. L/H wing with side repeater + aerial hole Order as BMP455
- h. L/H wing with side repeater + aerial hole -Non genuine. Order BMP455MS
- i. Left hand wing with side repeater no aerial hole 1996 on .. Order as ASB360010

Windscreen Corner Closing Panel

The Windscreen corner closing panel under the top of the wing does a very important job holding back the wheel spray so always check when replacing wings

- 4 a. Right Hand Windscreen corner closing panel Order as 14A8348
- b. As above -Non genuine version Order as MS6XR
- c. Left Hand Windscreen corner closing panel Order as 14A8349
- d. As above -Non genuine version. Order as MS6XL

Large Stocks of Rover, British Motor Heritage and Mini Spares Selective Aftermarket Panels

'A' Panels

5. 'A' panel for cars with internal hinges Mk3 on
 - a. Right Hand Order as ALA5660
 - b. Right Hand -Non genuine Order as MS9R
 - c. Left Hand Order as ALA5661
 - d. Left Hand -Non genuine Order as MS9L
6. A panel with holes for cars with external hinges
 - a. Right Hand Order as 14A6901
 - b. Right Hand -Non genuine Order as MS8R
 - c. Left Hand Order as 14A6902
 - d. Left Hand -Non genuine Order as MS8L
7. Inner A panels with external hinge reinforcement brackets (not shown)
 - a. Right Hand Order as 14A8346
 - b. Left Hand Order as 14A8347
8. 'A' post with doorstep repair panel, for wind up window, internal hinge cars.
 - R/H Order as HMP441012
 - L/H Order as HMP441013

Doors & Body Sides

Doors

9. MK1-2 door with external hinges from original tooling available in E coat.
 - a. Right hand door Order as 14A8306
 - b. Left hand door Order as 14A8307
 - c. Doorskin R/H Order as 14A5498
 - d. Doorskin L/H Order as 14A5499
10. MK3 Door 1970 on with wind up windows and internal hinges.(not shown)
 - a. MK3 Right hand door (hinges not included) Order as BMP306MS
 - b. MK3 Left hand door (hinges not included) Order as BMP307MS
 - c. Mk3 Doorskins R/H Order as CZH3300
 - d. Mk3 Doorskins L/H Order as CZH3301

Bodyside

11. Rear half bodyside with lower window aperture 1970on.
 - a. R/H Order as HMP441014
 - b. L/H Order as HMP441015

Windscreen Surround

12. Windscreen lower surround panel suitable for all models. Order as HMP441001

Boot Lids & Tail Gate

Mk1/2 boot lids are cathodic electrophoretically primed (E coat to spec 100) which gets into internal parts which you cannot paint. This ensures that they are more resistant to rusting than the originals. Shown are the two insides of the bootlids, the exterior faces are identical.

13. Full covering inner skin as fitted to Mk1/2 originally from 1967, which is heavy duty and made originally so parts could be laid on the lid and in the boot (highly illegal) Order as 8G9270
14. Early type Mk1 bootlid with cross member support sections as original on all later Mk3 Minis. Order as 28G110

- 15 a. Outer skin for MK1 only (as shown) Order as 28G110SKIN
- b. Outer skin for MK3 on (Item 16 shape) Order as BMP102
- 16 a. Bootlid for Mk3 1970 on, with holes for clips for boot seal (14A6584). Has the large lamp bolted above the number plate. Order as BMP339
- b. Bootlid Mk3 type, Non Genuine with holes for clips and to accept boot seal Order as MS19
- c. Bootlid Mk3 shape without clip holes because the seal (CKE10018) was fitted on the body from 1988 on. Order as BMD36001

Boot Seal & Clips

17. Correct seal and clips for bootlids No.13-14 (26 Clips required)
17. Rubber seal Order as 14A6584
18. Clips individually Order as 14A6585
19. Mini pickup genuine tailgate Order as CZH3293

Rear Panels & Valance

19. a. Rear lower back panel as shown for MK2 1967on Order as HMP441019
- b. The complete upper and lower rear panel is also available Order as HMP441022
20. Boot hinge lower repair panel suitable for all models. Order as HMP441009
21. Rear lower valance for all saloons
 - a. Genuine valance with fog lamp fixing holes Order as 14A5497
 - b. Non genuine valance without fog lamp fixing holes Order as MS22
 - c. Non genuine valance with fog lamp fixing holes .. Order as CZH3353MS

Tail Lamp Conversion

1. If converting a late square lamp hole Mini to fit MK1 rear lamps, these are the metal plates required for the conversion.

- a. Right hand Order as MS026R
b. Left hand Order as MS026L



Boot Floor and Repair Panels

2. Rear seat and boot floor genuine panel suitable for all models.
a. With battery box Order as HMP441016
b. Without battery box Order as ALA5513
3. Boot inner repair panel Non Genuine.
a. Right hand Order as MS24R
b. Left hand Order as MS24L
4. Rear repair section for boot floor. Non Genuine. 10" deep. Order as MS54

Subframe Mounting Panel

5. Subframe mounting and rear floor skirt panel, all models
a. Complete panel Order as HMP441008
b. Right hand half panel only Order as HMP441006
c. Left hand half panel only Order as HMP441007

Battery Box

6. a. Original battery box
Order as 14A6499
b. Non genuine pattern battery box
Order as MS31

For Battery ancillaries see page 62

Rear Wheel Arches

7. a. Right hand arch complete
Order as 14A9558
b. Left hand arch complete
Order as 14A9559
8. a. Right hand arch part only
Order as 14A6617
b. Left hand arch part only
Order as 14A6618
9. a. Right hand damper (shock absorber)
turret part only Order as HMP441010
b. Left hand damper (shock absorber)
turret part only Order as HMP441011

Closing Panels

Rear Valance closing panels

10. a. Right hand .. Order as ALA5524
b. Left hand .. Order as ALA5525

Rear Valance closing and subframe mount panels

11. a. Right hand .. Order as ALA5528
b. Left hand .. Order as ALA8623

Front of rear wheel arch closing panel

12. (Right Hand shown)
a. Right hand .. Order as 14A6611
b. Left hand .. Order as 14A6612

Rear Subframe mount stiffener bracket

13. (Left Hand shown)
a. Right hand .. Order as 14A6609
b. Left hand .. Order as 14A6610



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Bodywork



BODY

Floor & Sill Panels

FLOOR PANS

- 14 Replacement floor pans to fit all Minis up to injection type cars where they ran a strengthening gusset front to rear on the passenger side to recess the extra pipes
a. Right hand front floor pan only (non genuine) .. Order as MS25R
b. Left hand front floor pan (non genuine) Order only as MS25L
c. Right hand Front to rear floor pan Pre Rod Change gear lever tunnel (non genuine, not shown) Order as FS006R
d. Left hand front to rear floor pan Pre Rod change gear lever tunnel (non genuine, not shown) Order as FS006L
e. Right hand genuine front to rear floor pan with latest pressings Rod change tunnel. (not shown) Order as HMP441004
f. Left hand genuine front to rear floor pan with latest pressings Rod change tunnel. (not shown) Order as HMP441005
15. a. Right hand rear floor pan only (non genuine, not shown) Order as MS26R
b. Left hand rear floor pan only (non genuine, not shown) Order as MS26L
16. Complete genuine front and rear floor (rod type gear lever change, not shown) Order as CZH2669



SILL PANELS



Items 17-21 are for saloon (sedan) only Right Hand . Left Hand

17. Genuine outer sill for MK3 on (6 vent) Order as 14A9534 .. 14A9535
18. 8" wide non genuine outer over sill for MK3 on Order as MS55R .. MS55L
19. Genuine Rover 5.75" wide sill with revised 4 vent for MK1/2.
..... Order BHM3 BHM4
20. 8" wide non genuine over sill for MK1/2 Order as MS29R MS29L
21. inner sill all saloons (right hand shown) Order as MS27R MS27L

JACKING POINT

Genuine jacking point hole and cross member extension reinforcement bracket (Left hand shown)

22. a. Right hand .. Order as 14A8374
b. Left hand .. Order as 14A8375



Complete Body Shell

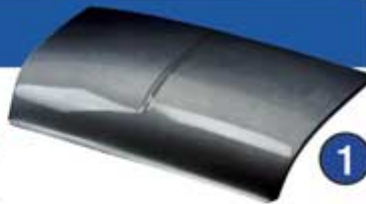
Complete Body Shell

23. All bodysells are E coated, sealed and primed on the original line at Longbridge using current MG Rover processes. The MKV shell is the same as the last produced at Longbridge. The Mk IV is from the same shell but the inner wing has air slats for side mounted rad (pre electric fan). The floor is for rod change gearbox ('72 on) and the front panel takes rubber mountings ('76 on). there are no aerial or side repeater lamp holes but there is a 'rotadip' hole in the bulkhead panel giving access for central speedo. All are available bare or built up with bonnet and doors, all properly fitted and aligned. Sportspack shells have modified arches for wheel arch trim and will accept front mounted radiator and roof aerial hole.



- MkIV complete shell .. Order as BMP343
MkV complete shell Order as AAA360200
MkV Sportspack complete shell 1996 on Order as AAA360210
MkV Sportspack bare shell to suit arches and front radiator Order as AAB360160
- MkIV bare shell Order as CZH3247
MkV bare shell .. Order as AAC360090

Bonnets



1. a. 1971on with grille moulding support lip. Non Genuine. Order as MSL2
- b. Mk1 1960-67 No grille moulding support lip. Genuine . . . Order as 24A1182
- c. MK2 1967-69 with grille moulding support lip. Genuine Order as ALA7455
- d. MK3 1971on No grille moulding support lip. (Var/Pickup) Genuine . . . Order as ALA8430
- e. MK3 1971on with grille moulding support lip. Genuine . Order as CZH455
- f. MK7 1997on for front mounted radiator. Genuine . . Order as BKA360110

From approx. 1971 all bonnets had hinges fitted directly into corners with fixing area 1.25" inboard. Early MK1/2 had the hinges approx. 6" inboard.

Bonnet Fittings

2. Spring loaded bracket bolts to original hinge acts as safe auxilliary bonnet prop . . . Order as MSSK018



3. Internal Bonnet Lock
The safest bonnet lock is an internal release type, as fitted to all the late Minis. The kit includes a new catch with bolts, correct length cable and bracket to fit at the end of the parcel shelf. (Not Clubman). Order as GS130273

4. Quick Release Bonnet Hinges for standard metal bonnet. Pair of MK3 bonnet hinges made for quick release to remove whole bonnet making it easier when working on the engine Order as MSSK019



Boot Hinges

5. a. Pair of chromed bootlid hinges . . . Order as 8B12601
- b. Pair of bootlid hinges non genuine Order as 8B12602
6. a. Rover replacement R/H hinge Order as BMB360040
- b. Rover replacement L/H hinge Order as BMB360050
7. a. Lower gasket for hinge to body Order individually as 24A2176
- b. Upper gasket for hinge to bootlid Order individually as 24A2176

Grommets

Grommets with centre hole for wiring and control cables etc..

8. a. Grommet 1/8" centre hole 1/2" wide and fits 1 1/32" hole, choke cable through body . Order as CAM5969
- b. Grommet 3/16" centre hole 1 1/4" wide and fits 1 1/64" hole Order as 5L23
- c. Grommet 1/8" centre hole 1" wide and fits a 1 1/16" hole, boot floor, rear valance . . . Order as 14A7033
- d. Grommet 1/8" centre hole 1 3/8" wide fits 1 3/16" hole Order as 5L62
- e. Grommet 3/16" centre hole 1" wide fits 1 1/2" hole Order as RFN403
- f. Grommet 1/8" centre hole 1 3/16" wide to fit 9/16" hole, bootlid and bulkhead wiring Order as RFN303
- g. Grommet fits 1 1/4" inner wing hole, for side repeater lamp . . . Order as YML10654

9. Door handle seal Order as ADA3817
10. Boot handle seal Order as CZH1747



Classic Straps and Fixings



11. Over centre clips, chrome plated and sold in pairs only . . . Order as MS117
12. Heavy duty bonnet pins 3 1/2" long and 1/2" thick. Pairs only . Order as C247
13. Original type leather bonnet strap, thick top grade tan leather, alloy fastening, and sold complete with screws as used by ST Works cars. Order each strap individually as C-AJJ3381
14. a. Competition quick release stainless steel bonnet pins, 4 1/2" long and 7/16" thick Order as BSP001
- b. Competition quick release lightweight alloy bonnet pins, in blue anodised. In pairs only Order as BSP002
- c. Competition quick release lightweight alloy bonnet pins, in red anodised. In pairs only Order as BSP003
15. Rubber bonnet hook in solid black rubber with fastenings
 - a. short 2 1/2" in length. In pairs only Order as MS119
 - b. long 4 1/2" in length. In pairs only Order as MS118
16. Bonnet and boot springs available in pairs only.
 - a. In black . . . Order as BS258
 - b. In chrome Order as MS122
17. Black leather bonnet straps available in pairs only. Order as MS121
18. Original works quick lift jacking brackets. A pair were fitted on both the front and rear about 12" apart from the centre, which meant the car could quickly be raised by quick lift jacks as used by Formula One Teams to this day Order each pair of brackets as C-AJJ4005

Floor and Body Plugs



- Floor and body plugs are specially designed for certain applications...
19. Inner sill 1 1/4" x 1" rectangular plug for 1" long 1 3/16" hole Order as AYB10020
 20. Boot plug for fuel lines on injection cars or new shells 3" long oval hole Order as WYA 10001
 21. Floor plug, 1 5/16" wide. Fits holes just under or over 1" . . . Order as 14A7081
 22. Battery box ,rear floor pan, wiper hole plug. 1 1/8" wide Fits 1 3/16" hole Order as 14A7090A
 23. Radius arm shroud, aerial hole and floor ,steering column hole plug. 1 1/4" wide. Fits 7/8" hole Order as 14A7091
 24. Plug for hole in fliitch, Mk1 door, bonnet platform. Mk4 later panel. 1 3/16" wide. Fits 1/2" hole Order as 14A7031
 25. Boot floor plug. 5/8" wide to fit hole 5/16" Order as 13H1954
 26. Rear valance fog lamp blanking plug. 1" wide for 5/8" hole Order as 14A7032
 27. Spotlight brackets front valance plug. fits 1 1/16" wide Fits 3/8" hole 9.2mm hole. Order as ALA4466
 28. Buffer fliitch plate (4) luggage strap hole(3) plug. 1/2" wide for 5/16" hole Order as 2H7274
 29. Wiper motor extra square hole in dash white plastic plug . . . Order as CZG778
 30. Bonnet buffer 1990 on stick on type Order as ADU2072
 31. Bonnet buffer Mk1/2/3 Order as 14G6856
 32. Boot lid number plate buffer Mk1/2 Order individually as 14A7625



Bonnet & Bulkhead Seals



All bonnet and bulkhead seals have dual purposes, mainly to keep electrics dry but also prevent rust.

1. a. The original MK1/2 windsreen front scuttle panel seal was called the bonnet rear seal on cars up to 1990. This seal has to be glued on. Order as 14A9010
- b. From 1990 -1997 a scuttle seal was introduced about 3mm shorter in height but along with the bonnet buffers (ADU2072) was made in a self adhesive style. For this adhesive type Order as CJE10021
- c. Twin points use a moulding that sits on the edge of the windsreen scuttle and comes down the wing edge 9" each side. If you are not sure what to fit this is the last type used. Order this as JRC8000



2. Seal fitted on the back lip of the bonnet. Order as JRC7008



3. This seal fits on the front lip of the bonnet and does a great job on keeping the distributor and coil dry. Order as JRC7898

Boot Seal



- 4 a. Boot rubber as shown that push fits on body aperture instead of boot lid fitted from 1988 on Order as CKE10018
- b. Earlier rubber that actually fitted on the boot lid. Held on by 26 clips(14A6585 not included) Rubber only Order as 14A6584
- c. clips for above 26 required Order individually as 14A6585

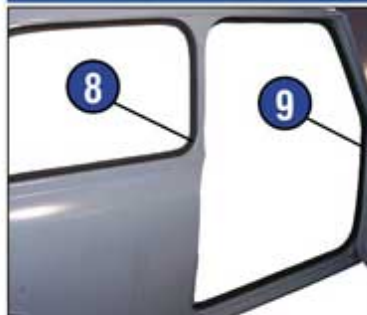
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Rubbers and Seals



BODY

Window & Door Seals



Rear Quarter Light Side Window

8. a. Mk1/2 opening rear window Order individually as ALA5897
 - b. Mk3 on with opening windows Order individually as EAM7724
 - c. Mk3 with NON opening windows Order individually as JRC2673
- At customers discretion item c. can be used on Mk1/2 by cutting and shortening top part of seal.

Door Aperture Seal

9. a. Mk1/2 door seal Order individually as XGA9934
- b. Mk3 on - wind up window type door . Order individually as CGA2835MS

Windsreen Rubbers

10. a. Windsreen Rubber for all Minis up to 1990 Order as CZH1719MS
- b. A wider profile rubber which covers slightly more body work to help eradicate leaks. Was introduced in 1990 Order as CCB10011MS

Screen rubber Fillet finishing strip that inserts in windsreen and backlight seals (cut length to suit either)

11. a. Chrome plastic finishing strip Order individually as 24A1466MS
- b. Chrome plastic finisher strip joining clip Order individually as JPC2017
- c. Black rubber insert Order individually as 37H8052

Rear Screen Rubbers

12. Backlight (Rear screen) rubber Order as JRC2674

Seals for Light Units

13. a. MK2/3 base to body seal per lamp R/H . Order individually as 37H2689
- b. MK2/3 base to body seal per lamp L/H. . Order individually as 37H2690
14. MK2/3 lens to base seal. Order individually as 37H6778
- 15 a. MK4 with reverse lens, body to base seal R/H Order individually as 37H2691
- b. MK4 with reverse lens, body to base seal L/H Order individually as 37H2692
16. MK4 with reverse lens, lens to body seal . Order individually as XFH100460



17. Lamp Seal - Mk1 base to body and base to lens kit per lamp Mk1 only as shown. Order as 57H5399
18. Headlamp bowl to body. Order individually as 9403



Door Accessories



1. The current correctly moulded rubber upper seal for door. Order as 14A7167
2. The vertical seal correct shape and cut out for the rear sliding window.
For R/H Order as EAM8530
For L/H Order as EAM8531
3. a. Easy fit lower solid cloth/rubber channel with drain and screw holes as originally fitted Order as 24A88ORIGINAL
b. Current Rover lower solid cloth/rubber channel Order as 24A88
4. Chrome window catch runner that locates lower sliding channel.
a. For R/H Order as 24A1303
b. For L/H Order as 24A1304
5. Screws for above are sold individually Order as GHF400

EXTRA VALUE MONEY SAVING KITS

6. a. Complete channel kit comprising items 1,2,3,4 and 5.
For R/H Order as MSSK022
For L/H Order as MSSK023
b. As above excluding chrome window catch runner item 4.
For R/H Order as MSSK020
For L/H Order as MSSK021
7. MK1/2 door pocket moulding fits either side. Order individually as 24A1169

Classic Exterior Trim Fittings



8. MK1, L/H rear lamp complete Order as 13H222
9. MK1, R/H rear lamp complete Order as 13H223
10. Rubber grommet for grease hole, on 11 and 12. Order as 14A7081



11. R/H rear protection shroud to cover radius arm grease nipple area. (grommet not included) Order as 14A6615
12. Left hand rear protection shroud to cover radius arm grease nipple area. (grommet not included) Order as 14A6616
13. Original T-type boot or rear door handle under some circumstances may require square shank to be shortened for correct fitment. Order as 14A7194
14. a. Original MK1 door handle with barrel and keys Order as 24A1140
b. Original MK2 door handle with barrel and keys Order as 24A2083
15. Door and boot handle seals. These very important seals should be renewed at regular intervals to prevent water getting into panelwork ultimately causing rust.
a. For door handles Order as ADA3817
b. For boot handle Order as CZH1747

Classic Interior Trim Fittings



Classic Interior trim fittings for MK1/2 Cars

16. a. Rear glove box moulding R/H Order as ALA5828
b. Rear glove box moulding L/H Order as ALA5829
17. Switch panel for MK1 Order as 14E3386
18. Chrome bezel for MK1 panel Order as 14A7172
19. Switch panel for MK2 in grey Order as ALE2960
20. Chrome bezel for MK2 panel Order as ALA6640
21. a. Screen air vent bezels Order individually as 14A9949
b. Screen air vent bezels, chrome Order individually as 14A9949CHROME
22. Ashtray with fluted top, for rear gloveboxes/facia. Order individually as 8D2490
23. Ashtray with flat chrome lid usually fitted to facia Order as 24A1538
24. Indicator switch for Mk1 Order as 2A6215

Number Plates



25. a. Original hanging number plate in black Order as 14A6468
b. In chrome with only the outer edges that show polished. Order as 14A6468CHROME
26. Number plate buffer. Only fitted on Mk1/2 with 14A6468 Order as 14A7625
27. a. R/H bracket/hinge for number plate Order as 14A6466
b. L/H bracket/hinge for number plate Order as 14A6467
28. Front number plate
Original small number plate as per Mk1 where numbers were attached or stuck on. This will not accept later one piece plastic number plate.
a. In black Order as 14A8455
b. In stainless steel with the outer edges that show polished. Order as 14A8455S
29. Stainless steel backing plate for latest legal size plastic number plates as used on UK cars. The outer rim is polished to smarten up the front or rear of any Mk3 on car or as applicable Order individually as 8B12390
30. Plastic number plate surround. Looks good but not as solid as using stainless steel item 28 Order as MSA0213

Door Fittings



- 1 Ten Piece Chrome on Alloy Door set including G281 bezels as above and a set of chrome latch plates. Order per car set as MSA507

Also available in top quality polished alloy

2. a. Polished alloy window winder handle . . . Order per car set as MSA1130
 b. Complete car set of 6 handles in polished alloy (includes 2a, 3 and 4) Order as MSA1129
 c. Pair of genuine MINI polished alloy window winders only Order as FVL100100
 d. Pair of genuine MINI polished winder handles in 6 piece door set (includes 2c, 3 and 4) Order as VUB103670



3. Polished alloy door open handle Order per pair as MSA1131
 4. Polished alloy door pull/grab handle Order per pair as MSA1132
 5. Winder handle bezel in chrome plastic to replace OE black type Order individually as G281

6. a. Door lock plate escutcheon in chrome on plastic - pair . . . Order as SP226
 b. Door lock plate escutcheon in metal with polished edge - pair Order as SP225

7. Door lock plate surround bezel in stainless steel (shown with plastic escutcheon - not supplied) - pair Order as MSA1133



8. Original Mini Plastic Winder Handle Order individually as CZA7109

9. Special Size Screw for fitting above Order individually as ZKC3317

10. Spring Loaded Alternative Winder Handle fitted as a safety spec from 1982 approx. on are interchangeable Order individually as YXX3199PA

11. Special Size Screw for fitting above Order individually as ADU8081

12. Finishing Plug Order individually as YXX3200PA

13. Mini Interior Plastic Door Opening Handle as fitted to Twin Point Injection Models up to 1997 Order individually as JPC8387PA



Interior Mirror

14. 6" wide polished metal/chrome interior mirror for all pre 1997 Minis (not Twin Point Injection). Order as MSA1147



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Handles and Pedal Pads



Chrome Locks and Handles



15. Door Scoops - to stop those unsightly scratches made by finger nails, rings etc. These are made only for wind up window type doors and fit in the dish behind the door handle. Simply loosen off the exterior door handle and slide them in place. Sold in pairs. Stainless steel scoops. Order as 8B12500

16. Chrome plated metal window winder handle . . . Order individually as G282

17. Chrome plated metal door opening handle. Can be fitted as it is or pull the old chrome escutcheon off your original plastic handle and push on back of chrome type, to cover the door liner hole. Order individually as G283
 Longer screw CMZ312 with smaller thread required on late cars for above.

18. Outer chrome door handles from 1970 on are available separately or as a 3 piece kit, including the boot handle. They have matched barrels and key numbers.

- a. Complete 3 piece kit. Order as CZH1785

- b. R/H door handle and key. Order as CZH886

- c. L/H door handle and key. Order as CZH887

19. Rear boot handle as fitted from 1970, with barrel and key Order as JRC2844

20. Lock Barrels. When any of your barrels wear or have different numbers, why not replace both door and boot barrels with a matching set of 3 Order as BARREL SET

Pedals & Pads

21. Race/Rally alloy pads for clutch and brake, sold as a pair Order as A200017

22. Mini accelerator metal pedal for vehicles pre 1976 Order as A200015

23. Latest 1997 specification Rover look-a-like bolt on accelerator pedal for vehicles 1976 to 1996 Order as A200016

Pedal Rubbers

24. Latest clutch/brake heavy duty easy fit, better anti slip rubber pedal pad, introduced in 1990 can be used for vehicles 1976 on. Order individually as SZU10001

25. Original clutch/brake pedal pad, as fitted from 1976 up to the introduction of SZU10001pad. An inexpensive alternative Order individually as GPR107

26. Hexagonal Pedal Rubbers - Ribbed in Mini/Union Flag style
 Black Order as GPR107BLACK
 Blue Order as GPR107BLUE
 Yellow Order as GPR107YELLOW
 Red Order as GPR107RED

27. Clutch/brake pedal as fitted up to 1976, also used as accelerator pad for vehicles 1976 on - Sold individually.
 Black Order as GPR104
 Blue Order as GPR104BLUE
 Yellow Order as GPR104YELLOW
 Red Order as GPR104RED

28. Accelerator rubber pedal pad for vehicles pre 1976 Order as GPR105



Bumpers



Mini Spares manufacture all the classic overriders, corner bars and bumpers in stainless steel with the correctly pressed holes and shapes to original specification. All parts are available separately or in kit form.

1. Original kit complete with bumpers, corner bars, overriders and all fittings ... Order as MS25

2. Front and rear kits of overrider and corner bars, but less bumpers where purchasers wish to drill their own stainless steel bumpers. Reverse lamps fitted from 1983 on will have to be relocated using bracket MSSK024. (not shown)
- a. For cars pre 1997 or late Coopers with 2 spot lamps only.
..... Order as MSSK025
- b. Cars with 4 spot lamps or 1997 on, a different front kit with shorter corner bars is used with the original rear kit. Order as MSSK026
- c. A front kit only for cars with 4 spot lamps or 1997 on, has shorter corner bars. Order as MSSK027
3. a. Stainless steel bumper with holes for corner bars. Can be ordered individually. Order as 14A9871
- b. Genuine Rover stainless steel bumper. (without holes)
..... Order individually as DPB10166.
- c. Budget chrome bumper. Order individually as 14A6779MS.
- d. Budget stainless steel bumper. Order individually as DPB10165MS.

Overriders

4. a. Stainless steel overrider with hole for right hand front or left hand rear.
..... Order individually as 14A9923
- b. Stainless steel overrider with hole for left hand front and right hand rear.
..... Order individually as 14A9924
- c. Plain stainless steel overrider for MK2 without holes.
..... Order individually as 14A8738
5. a. Right hand front corner bar stainless steel. Order individually as 14A9877
- b. Left hand front corner bar stainless steel. Order individually as 14A9878
- c. Right hand rear corner bar stainless steel. Order individually as 14A9919
- d. Left hand rear corner bar stainless steel. Order individually as 14A9920



6. a. Fitting kit for MK1 corner bars and overriders. (As supplied in MS25).
..... Order individually as MSSK010
- b. Fitting kit for MK2 overriders only.
..... Order as MSSK011

White Cooper Mirrors



7. Rover diamond white painted mirror, as fitted to Coopers from 1994-7.

R/H order as CRB10184NAL L/H order as CRB10185NAL

For Sportspack Mini 1997 on the colour became Old English White

R/H order as CRB10184NNX L/H order as CRB10185NNX

Plastic Door Mirrors



8. Black plastic door mirrors as fitted from 1980 on.
- a R/H Order as JPC9848
- b L/H Order as JPC9849

For Cheaper Replacement Mirrors use the Polished Door Mirrors (no. 13 & 14)

Classic Torpedo Shaped Mirrors



9. Chrome classic shape torpedo mirror for wing fitment only
- a. With flat glass. Order as GAM105
- b. With convex glass. Order as GAM105C
10. Alloy classic shape torpedo mirror for wing fitment only
- a. With flat glass. Order as GAM106
- b. With convex glass. Order as GAM106C
11. Chrome classic shape torpedo mirror originally redesigned by Keith Dodd for "door" fitment only to give full adjustment and vision not achieved by using GAM105/6. These mirrors are 'handed'.



- These mirrors are supplied with only a universal fitting kit (M91000) to fit any car without any original mounting holes, i.e. MK1 & MK2 Mini.
- a. R/H door with flat glass Order as GAM107
- b. R/H door with convex glass Order as GAM107C
- c. L/H door with flat glass Order as GAM108
- d. L/H door with convex glass Order as GAM108C

12. This chrome plinth and escutcheon was fitted on production cars from 1970-80 with the GAM215A (no. 14) chrome mirrors fitted as standard, it also accept the torpedo mirror.



It is also used as a universal fitting kit and the hole centres for the plinth are 55mm wide Order kit as CZH3521



13. For cars between 1980-2000 with plastic mirrors a fitting kit is available to use existing bolt holes which enables fitment of mirrors numbers 11 and 14.
- a. Fitting kit for R/H door Order as M90999
- b. Fitting kit for L/H door Order as M90997

Door Mirrors



14. Polished door mirror complete with plastic fittings, stainless steel body, as fitted upto 1980
- a. R/H mirror with flat glass Order as GAM215A
- b. L/H mirror with flat glass. Order as GAM216A
- c. R/H mirror with convex glass Order as GAM217A
- d. L/H mirror with convex glass. Order as GAM218A
- e. R/H mirror with flat glass, black metal body
..... Order as M68990E
- f. L/H mirror with flat glass, metal black body
..... Order as M68991E

To fit the above chrome mirror (no. 14) to cars 1980 onwards which had plastic mirrors, use fitting kit M90997/9 (no. 13).

Tex Wing Mirrors



This is much cheaper than using plastic mirrors (no. 7/8).

15. Original Tex round chrome mirror as used in the 1960's.
- a. Round chrome mirror with convex glass.
..... Order as 8G8731
- b. Round chrome mirror with flat glass.
..... Order as 8G8710



16. Original Tex classic alternative oval shape to the round mirror in the 1960's.
- a. Classic shape chrome mirror with convex glass
..... Order as M50201
- b. Classic shape chrome mirror with flat glass.
..... Order as M50211



17. Tex chrome short straight arm. fits either side
..... Order as M16007



18. Tex chrome angled long straight arm. fits either side
..... Order as M16009



19. Tex chrome long curved arm. fits either side.
..... Order as M16008

Wheel Arches and Flares

For edging trim that has only the edge butting up to bodywork.

Order as 37H9871 per metre in black only.



The quality of the arches is commensurate with the price. Most arches have minor flaws and require trimming for a perfect fit. The more expensive arches are obviously better quality and fit.

By fitting one of the two types of sealing rubber available between the body and the arches, it makes fitting easier and a better finish quality is obtained, unless they are being moulded into the wing.

Arch widths are measured off a brand new car and is the distance from the front wing (not the seam) to a point above the centre of the front wheel, which is also the top centre of the wheel and arch opening.

Rear wheels usually appear to stick out further than front owing to the general bodyshape so allow an extra 1/4" with most arches.

Widths when fitted are also dependant on the height arches are fitted and manufacturers trimmed sizes but should only vary 1/8"-1/4" when fitted at lowest position. Allow an 1/8" for rubber seal. We accept no liability for Mini Clubmans, careful modifications would be necessary, but only MS132/ GAW117/ WPARCH are assumed to be fittable or have been fitted by customers



For edging trim that has a flat edge butting up against bodywork.

Sold per metre For black Order as SPL0059.



For sharp bends it is advisable to 'V' cut the edging trim

The schematic drawings also show method of screw fixing. Never drill the bodywork until you are satisfied with the style, fitability, and trimming requirements for a good fit.

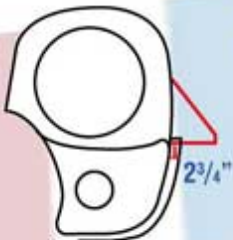
MS132 - Mini Special Arch

1" WIDER IN FIBREGLASS

This arch kit sticks out 2.75" when body lines (wheel arch and moulding lip) are kept original. Arch is retained by screws through moulding lip, no

screws visible and is 1" wider than the plastic type fitted by Rover but similar schematic shape. Fibreglass arch extends beyond bumper seam line at rear.

Order as MS132

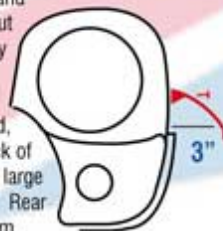


PREMIUM QUALITY

MS128 - Group 5 Arch in Fibreglass

This arch kit sticks out 3" and is used when bodyline is cut away or retained. Originally made as Group 5 Race arch where no body modifications were required, it has become a cheap 'Jack of all Trades' especially when large odd size wheels are used. Rear arches stop at bumper seam line. Widest part at front approximately 5".

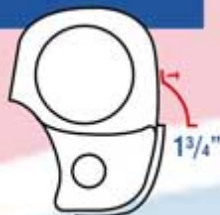
Order as MS128



C206 - Alloy Arches

This arch kit sticks out 1.75", including lip, when bodylines (wheel arch and moulding lip) are kept original. Screws are visible as per securing lip and plastic wheel arch moulding can be retained. Rear arch slope at bumper seam line. Often used by Vintage/Historic racers overseas or as a foundation to blend and build fibreglass arches.

Order as C206



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Wheel Arches & Flare Kits



BODY

MS133 WP Arch in Fibreglass

PREMIUM QUALITY

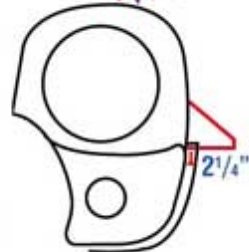
This design of Wide Profile fibreglass arch sticks out 2.25" maximum when bodyline (wheel arch and moulding lip) are kept original. Screws are not visible. Front arches taper away at front exposing tyre tread. Rear arches stop at bumper seam line. Includes correct body to arch rubber seal.

2.25" Wood & Pickett Arches

For set produced by Wood & Pickett
Order as MS133

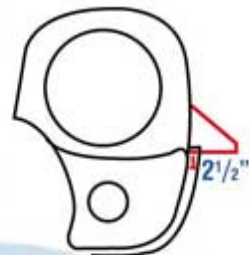
2.25" Upgraded Premium Arches

For a slightly better fitting upgraded premium kit
Order as MS133MS



ABS Arches

Also available is a slightly wider 2.5" set made in ABS plastic only, which are less expensive. Order as MS134

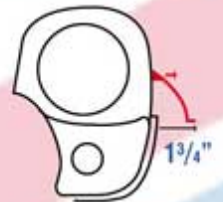


C-AJJ3316 Group 2 in Fibreglass

This arch kit sticks out 1.75", including lip, when bodylines (wheel arch and moulding lip) are kept original. Screws are visible and the chrome wheel arch moulding can be retained.

These are copies of original ST Abingdon works arches. Rear arches stop at bumper seam line.

Order as C-AJJ3316



C-STN71 Works Group 5 Arches

IN FIBREGLASS

This arch kit sticks out 2.5", including lip, when bodylines (wheel arch and moulding lip) are kept original. Screws are visible and plastic wheel arch moulding can be retained. Rear arch stops at bumper seam line. These are original ST works car copies.

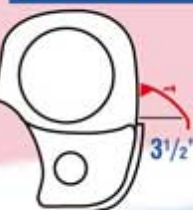
Order as C-STN71



PREMIUM QUALITY



MS128W - Gp 5 Extra Wide



This arch kit sticks out a nominal 3.5" and more when positioned at the angle most racers use as shown. 5.5" wide at very front. Definitely only for cars with bodyline modifications and fairly inexpensive to replace. Rear arches stop at bumper seam line.

Order as MS128W

Wheel Arches & Mouldings

53

GAW117 - Plastic Arches



Known as Mini Special Arches

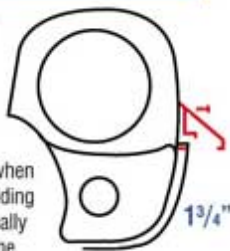
Includes sill trim moulding between arches.

This arch kit sticks out 1.75" when bodyline (wheel arch and moulding seam) are kept original. Originally fitted to Innocenti Minis became standard equipment on all Minis from 1984. Screws are visible and rear arch extends beyond bumper seam line.

These black plastic arches were originally known as Mini Special Arches.

Order as GAW117

Black Arches in this kit also available separately from Mini Spares.



Stainless Arch Covers

1. Set of four stainless steel covers to fit over the original plastic arches (GAW 117) as fitted by Rover since 1984.

2

Order as BG2405MS

2. The two stainless steel strips to fit on the body edge blend in perfectly between the contour of the BG2405MS arches.

1

Order as BG2406

Beware of cheap copies - this kit fits and was originally supplied to Rover.

Sports Pack Arches

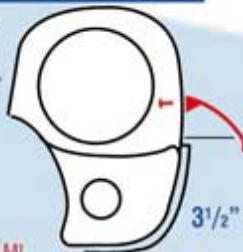


The last Rover arches, as fitted to the Sportspack Mini from 1997. Made in rubber and stick out 3.5". The bodyline has to be cut away to fit. Finished in correct rubber primer.

Available as set of 4

Order as MS135

or separately as listed below.



R/H/Front Arch DFJ100240LML L/H/F Arch DFJ100250LML

R/H/Rear Arch DFK100460LML L/H/R Arch DFK100470LML

The finishing strip between arch and body

(as supplied in Kit MS135 & ARCH001) Order individually as DFP100400

The finishing strip between the front and rear arches (not supplied in Kits)

Order individually as DDJ10002

Also available is a plastic copy which has not got such a perfect finish - the coating needs proper etch primer for application of paint, but fits equally well as the original.-Budget Price! Order as ARCH001

For similar set in fibreglass Order as MS136

Fibreglass Front End

3. Mini, One Piece Full Front End without any cut-outs. Budget specification.

Order as MS104



3

4. Pair of brace bars which bolt to front subframe, using one of the existing holes where front panel originally mounted and then bolted to the inner wings.

a. For use with front end shown as item 3.

Order as MS106

b. For use on Clubman square fronted type Minis

Order as MS106C



4

Mini Styling Kits

N.B. Never drill the bodywork until you are satisfied with the style and fit of every component. Always have trial fittings to judge if small amounts of trimming are required due to varying body tolerances.

On later vehicles especially, the side sills obstruct the jacking point holes. It is suggested a suitable scissor jack or alternative is obtained.

Superflares



5



6

5. Front 4" Rear 4 1/2" Order as MS129

6. Front 4 - 5" Rear half body side 5 1/8 - 6"

known as NASA style. Order as MS130

These sizes are very difficult to measure as fitting procedures change sizes but these are average from different cars.

RGM Mini Styling

7. RGM Black ABS Plastic Styling Kit includes front, rear spoilers and wheel arch extensions with sill trims built in. Has full fitting instructions and parts required. Can be painted using two pack acrylic paint. Has a cut out in the rear valance for a fog lamp which was fitted from 1982. . . . Order as SK200



8

7

8. RGM Roof Spoiler to compliment kit in ABS plastic . . Order as FR200

Fibreglass Panels

- 9. a. Budget quality bonnet skin without lip as per MK1 Mini and Vans. No fixings Order as MS114
- b. Budget quality bonnet skin with lip for moulding Order as MS114A
- c. Clubman budget bonnet skin Order as MS115



9

10. Bootlid double skins or outerskins cannot be fitted using original fixings. Available in MK1 or MK3 design.

- a. Bootlid outer skin only MK1 Order as MS110
- b. Bootlid outer skin only MK3 Order as MS111
- c. Bootlid inner and outer skin MK1 Order as MS112
- d. Bootlid inner and outer skin MK3 Order as MS113



10

11. Minivan/ Estate one piece rear Fibreglass door with window and seal fitted.

Order as MS109



11

Rear Door

Quality of Fibreglass panels are commensurate with prices, obviously the more expensive parts are better to fit and require less trimming and repair of minor flaws. All Fibreglass (with the exception of arches) must be collected by customer.

Door Sill Plates

- 1. Stainless Steel Polka Dot Pattern Kick Plates** which fit to inner sill and protect door seal getting damaged. These were originally fitted to MK1 models but will replace later plastic type as fitted to date. These will compliment the doorstep sills as below **Order as 14A7270**
- 2. Set of Doorstep Sill Guards** in black plastic with stainless steel insert depicting the word "MINI". The pair of guards stick on by use of adhesive strips, supplied in kit. **Order as EBN100010**
- 3. Set of Doorstep Sill Guards** as per 2 but with latest wing motif. **Order as EBN100040**
- 4. a. Set of stainless steel plain sill guards** **Order as 14A7271**
b. Stainless steel guards with etched Mini Cooper text and chequered pattern. **Order as 14A7272**
c. Stainless steel guards with etched Mini text and chequered pattern **Order as 14A7273**



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Body Trim and Windows



BODY

Front Spoilers

- 12. Front plastic spoiler for Mini**, about 6 1/2" deep with instructions for spraying etc if required . . . **Order as RS17**
- 13. Front plastic spoiler for Mini Clubman**, about 6 1/2" deep with instructions for spraying etc if required. **Order as RS18**



Windows

PERSPEX

- 14. a. To RAC specifications**, 4mm Acrylic perspex kit, less windscreen, for 1970 on MK3. **Order as C-WIN0001**
b. Polycarb is stronger and more resilient (virtually indestructible). To RAC specifications 4mm Polycarb window kit, less windscreen for 1970 on MK3. **Order as C-WIN0002**



Windscreens for pre 1997 Twinpoint Cars

- 15. a. Laminated windscreen** in clear glass. **Order as 24A2236**
b. Laminated windscreen in sundym light green tint. **Order as CZH4048**
c. Laminated windscreen in sundym light green tint heavy top tint as shown. **Order as MS85**
- 16. a. Electrically heated front screen** as used on Monte Carlo rally cars and all competition cars. **Order as MS86**
b. Tinted Top Tint laminated heated front screen as above **Order as MS87**



NOTE: Glass is for customer collection only

- 17. Mini Spares sunstrip**. **Order as GS1007**

MINI SPARES CENTRE

Body Seam Mouldings

Body Seam Mouldings in Stainless Steel

- 5. Should be used with later type stainless steel clips BMP128MS**, which do not rust like the originals. These seam mouldings not only brighten up the car but are rust free and cheaper than genuine original replacement items. Available as a front kit and separate rear kit.
a. For a pair of front. **Order as 8B12400**
b. For a pair of rear. **Order as 8B12401**
In plain metal (as standard).
c. Front. **Order as BMP127MS**
d. Rear R/H. **Order as BMP124MS**
e. Rear L/H. **Order as BMP125MS**
- 6. Roof trim. 1 Roll of specially shaped plastic trim** sufficient for one saloon/sedan roof.
a. Chrome. **Order as MT632**
b. Black. **Order as MT633**



- 7. Original lower plastic body seam front to rear**
For better fitting we recommend genuine **Genuine**
a. Chrome fluted type as Mk1/2 . . . **Order as GZF105A** **Non Genuine** **GZF105MS**
b. Chrome plain type as Mk3on . . . **Order as GZF107A** **GZF107MS**



Washer Bottles and Pumps

See page 56 for wipers and fittings



- 8. Round bottle for MK1/2** with a 2" neck. (the factory supplied a smaller neck), so a new cap is included with this bottle. (s/steel bracket sold separate)
a. Washer bottle with cap **Order as GWW918**
b. Bracket for above in stainless steel. **Order as 37H9712**
c. Mechanical push button windscreen washer pump as used on Minis and MG/Sprites. Upto introduction of electric type. **Order as GWW102**
- 9. a. 1 Litre Capacity MK3** (alternative to GWW907) **Order as GWW906**
b. 1.7 Litre Capacity will fit earlier cars if enough space **Order as GWW907**
c. Windscreen remote electric washer pump to 1980. . **Order as GWW125**
- 10. a. Washer bottle that has integral electric pump** as fitted under bonnet, 1989-92 pre injection cars (uses pump GWW1192) **Order as GWW940**
b. Windscreen electric washer pump (fits all bottles GWW940 & also fits GWW935 except twinpoint injection) **Order as GWW1192**
- 11. a. Washer bottle fits integral electric pump**. Fitted under bonnet 1981-88 and in the boot on injection cars 1992 onwards (uses pump GWW1192 for pre twinpoint & GWW1116 for twinpoint injections on) . . **Order as GWW935**
b. Windscreen electric washer pump (fits bottle GWW935 twinpoint injections 1997 on) **Order as GWW1116**





Morris Mk1 Cooper and 'S' Grilles

1. a. Stainless steel Morris Cooper Grille Order as 24A2158
 b. Full top slat for internal bonnet release, Retro Look Order as 24A2159
 c. The 24A2159 grille can be ordered with 14A7780 surround kit (less bonnet release kit GS130273) as a RETRO kit Order as 24A2159KIT
 Internal bonnet release kit available separately Order as GS130273
2. Stainless steel grille with 6" lamp hole recess Order as 8B12506



Mini Grilles

All MK2/3 types are interchangeable and do not have surrounds fitted.

3. Black grille as fitted to early MK3/4 saloons from 1970 onwards.
 a. Genuine Rover black grille Order as DHB10150PME
 b. Mini Spares black grille Order as CZH4015MS
4. Chrome grille as fitted to MK2 Minis from 1968 onwards.
 a. Genuine Rover chrome grille Order as DHB10150MMM
 b. Mini Spares alloy chrome grill Order as ALA6654MS

Mini Grille Buttons

5. Mini grille buttons allow immediate access to the front of the engine bay. Very useful for competition use. The "IN THING" in the 1960's. Two holes need to be drilled in the front panel and grille two bolts fitted. (supplied in kit)
 - a. Red alloy buttons Order as MS97
 - b. Blue alloy buttons Order as MS97B
 - c. Black buttons Order as MS98
 - d. Chrome buttons Order as MS99
 - e. Lightweight aluminium buttons Order as MS100



'Wavy Line' Austin Style Grille MK2 1967 on

6. 1960'S look wavy grille as original per used on the Austin Mini MK1 has now been introduced for later cars 1967 on.
 - a. If fitting to a car with an internal bonnet release (as shown) Order as 8B12508
 - b. With a recessed slat for external bonnet opening. Order as 8B12507



Grilles for Recessed Driving Lamps

7. Stainless steel grille with 6" lamp hole when an internal bonnet release is fitted Order as 8B12503
8. Stainless steel grille with 6" lamp hole for external bonnet release. Order as 8B12502

Grilles



Classic Mk1 Austin Grilles

9. a. Grille as fitted to Austin MK1 Cooper and 'S' Order as 24A198
 b. Full top slat grille for RETRO look with internal bonnet release Order as 24A199
 c. The 24A199 grille can be ordered with 14A7780 surround kit (less internal bonnet release kit GS130273) as a RETRO kit Order as 24A199KIT
10. Grille as fitted to Austin MK1 Minis, known as the wavy line grille because of its shape Order as 14A7299



Grilles as fitted to Mk2, Cooper, Cooper 'S' and all Coopers 1990 on

11. a. Bright trim alloy as original where internal bonnet release is used. Order as ALA6669
 b. Stainless Steel heavy-duty front grille where internal bonnet release is used Order as 8B12505
12. a. Genuine alloy grille when bonnet is opened manually at front of car, as fitted to original MK2 Cooper and 'S' Order as ALA6668
 b. Stainless steel heavy duty front grille when bonnet is opened manually at front of car Order as 8B12504
13. Anodised grilles (Gold shown with mouldings) mouldings not supplied Available in 3 colours

	Gold	Red	Blue
Internal bonnet release	ALA6669GOLD	ALA6669RED	ALA6669BLUE
External bonnet release	ALA6668GOLD	ALA6668RED	ALA6668BLUE

Grille Mouldings



14. a. R/H grille moulding 1967 MK2 on Order as ALA6508
 b. L/H grille moulding 1967 MK2 on Order as ALA6509
 c. Plastic finisher to fit between side moulding and body Order individually as 37H8108
15. a. Grille top moulding (fitted to bonnet) MK2 1967 on. Order as ALA6559
 b. Plastic finisher to fit between side moulding and body Order individually as 24A2708
16. a. Original Mk1 moustache surround moulding, chrome on steel Order as 14A7781
 b. Original chrome over brass Mk1 moustache surround, now redesigned to also fit all current genuine front panels and our grilles for a Retro look Order as 14A7781RETRO
- 16b and 17 with fixings can be ordered as a complete car set Order as 14A7780
17. a. R/H end moulding for MK1 moustache Order as 14A7782
 b. L/H end moulding for MK1 moustache Order as 14A7783
 c. Moustache clips in stainless steel (3 required per moulding) Order individually as ADA3583
 d. Pop rivet for the clip (3 required per moulding) Order individually as RA608076
18. Internal bonnet release kit
 The safest bonnet lock is an internal release type, as fitted to all the late Minis. The kit includes a new catch with bolts, correct length cable and bracket to fit at the end of the parcel shelf. (Not Clubman).
 Order as GS130273



Mini Spares Brightwork Kits

A range of 1960's look petrol caps. These are available in chrome, alloy and as locking caps.

The brass ring that fits onto the petrol tank neck is only required with the non-locking type and is included with the cap. The brass ring is available as a separate spare part.



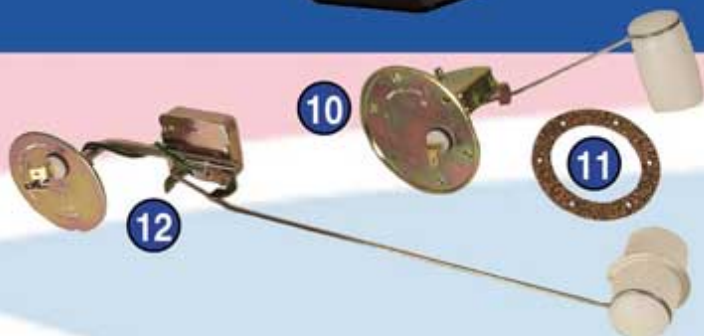
1. Separate brass collar Order as COL25
2. Flip Top Caps. The flat type with the large catch is known as the Aston and the Monza has the raised ridge on top.
 - a. Aston chrome cap with fitting ring Order as ASTON
 - b. Aston alloy cap with fitting ring Order as ASTON01
 - c. Aston alloy locking cap Order as ASTON02
 - d. Aston chrome locking cap Order as ASTON03
3.
 - a. Monza chrome cap with fitting ring Order as MONZA
 - b. Monza alloy cap with fitting ring Order as MONZA01
 - c. Monza alloy locking cap Order as MONZA02
 - d. Monza chrome locking cap Order as MONZA03



4. a. Chrome petrol locking cap (non-vented) for saloons 1970 on. Order as WLD100660
- b. Chrome petrol locking cap (vented) for saloons pre 1970 and all vans/estates Order as GSS154A
5. Black petrol locking cap (non-vented) for saloons 1970 on. Order as GSS212A
6. Chrome petrol cap (vented, non locking). Order as WLD100350
7. Black petrol cap (non-vented, non locking) Order as WLD10027
8. Original Chrome classic 3" wide locking petrol cap by Wilmot Breedon (non-vented). Order as GSS215
9. The classic chrome petrol cap fits onto the filler neck and allows the original locking cap (item 4) fitted by Rover to sit inside as normally fitted. Means neither part can be easily stolen. 3 1/2" wide. Superb value. Order as SP227

Fuel Tank Sender Units

10. a. For Mini Van, estates, pick ups which are held in place by screws. (including gasket) Order as AAU8340MS
- b. Fixing screws for sender unit Item 10a Order individually as 53K165
11. Cork gasket for sender unit to Mini van tank Order as GUG705711GM
12. a. For saloons where the unit twists in and sealed by rubber 1974-1992 Order as XNB10007
- b. For injected cars where float rod has a bend and kink 1992 on Order as XNB100380



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Fuel Caps and Tank



BODY

Right Hand Fuel Tank



13. Cooper 'S' right hand tank, 5.5 gallons as per original. Will fit any Mini, but fuel injected cars will require modification to original tank. No fittings supplied as it is a replacement part, but a kit or any single part of the kit are also available. See kits No. 13
 - a. Carburettor type cars with ordinary neck for lead free and leaded petrol Order as 21A2183
 - b. Cars with small lead-free fuel entry neck Order as 21A2184
 - c. Standard left hand tank 7.5 gallons with slot in sender hole Order as ARP1043
 - d. Alloy lightweight 5.5 gallon R/H tank with leaded petrol tank neck only Order as 21A2185
14. a. Complete Fitting Kit for Cooper 'S' right hand tank. Order as MS82
- b. Complete Fitting Kit. All parts as in kit MS82 but with extra parts for fitting to the fuel injection car. This will require removal of the original tank for modification, which includes drilling a hole and fitting a union. Order as MS83
15. a. Long retaining strap for 5.5 gallon tank Order as 2A2226
- b. Long diagonal fitting strap for 7.5 gallon tank Order as 21A2838
16. Short retaining strap for 5.5 gallon tank Order as 2A2231
17. Right hand tank anchor bracket Order as ALA7905
18. Petrol tank neck seal Order as 14A7057
19. Joining pipe between two tanks Order as 21A2331
20. Dummy Neck. If you want the twin petrol tank look but not the tank then this dummy neck is just the job, fixes onto body with special rubber seal provided. Cap required. Order as MSA1126
21. Petrol Tank for van/ estate and pickup. Order as 21A291MS

Wiper Ancillaries

Supplied individually unless stated

- 
 - Stainless steel bayonet fitting 10" wiper blades brighten up the car giving the original 60's - 70's look. Will not fit hook type fitted from 1990 on unless arms and blades are changed. **Order as GWB219**
 - Heavy duty 11" upgrade of above. Only accepts new heavy duty arms (no.2b & 3b) **Order as GWB220**
- Stainless steel bayonet type wiper arm that park on the right hand side, as per all MK1/2 Mini's to 1970. This also fits left hand drive Mk3 Mini's 1970 on **Order as 13H5626**
 - Heavy duty upgrade of above. Only accepts GWB220 **Order as 13H5627**



- Stainless steel bayonet type wiper arms that park on the left hand side as per all Mk3 Mini's from 1970 on. This also fits left hand drive MK1/2 Mini's to 1970 **Order as 13H5629**
 - Heavy duty upgrade of above. Only accepts GWB220 **Order as 13H5630**

WIPERS THAT REALLY WIPE!

Most stainless steel wipers available are not adequate at wiping the screen properly because they flex and lift when the car is in motion. To combat this problem Keith Dodd has developed an 11" blade heavy duty kit with the arms 2mm wider and 1mm thicker, with a correct strength spring to keep the blades against the screen.

Order the HEAVY DUTY UPGRADE for these parts (1b & 2b/3b)

Note: The wiper motor/cable and wheel boxes must be in good condition.

- Eight sided chrome nut that fits the wiper wheel box that the wiper arm slides on to. This is for the 32 tooth wheel box fitted from 1970 **Order as 37H7738**
 - Six sided chrome nut, fits wiper wheel box that the wiper arm slides on to. This is for the 22 tooth wheel box as fitted to MK1/2 Minis **Order as 37H6316**
- Chrome plated plastic wheel box plinths to replace those dowdy black ones. Comes with a sealing washer to compliment the wiper arms and blades. Two types are available, complete with nuts. Sold in pairs.
 - Plinth and the six sided nut as fitted to MK1/2 Minis **Order pair as 37H6042C**
 - Plinth and the eight sided nut as fitted to MK3 Minis from 1970 on **Order pair as 37H7201C**
- Mechanical push button windscreen washer pump as used on Minis and MG/Sprites **Order as GWW102**
- Chrome twin washer jet with nut fixings **Order as GWW801**
- Chrome single jet with nut fixing **Order as GWW810**
- Black plastic twin jet with nut fixing for Mk 1/2 **Order as MS389**
- Black plastic single jet For 'D' shaped locating hole, push fit 1980 on. (can be used on 1970-80 Mini but hole might need modifying. **Order as GWW1080**



- Stainless steel wiper arm hole plug. Thief proof, correct dome shape **Order individually as 8B12396**

Mini Spares Brightwork Kits

- Brightwork kits** include wiper arms, blades, escutcheons, nuts, twin jets and wiper hole plugs

 - 10" blade kit for MK3 R/H/D and left hand park - includes 1a,3a,6b,8 and 12 car set. **Order as MSSK029**
 - Heavy duty 11" blade kit for MK3 R/H/D / left hand park - includes 1b,3b,6b,8 and 12 car set. **Order as MSSK031**
 - 10" blade kit for MK3 L/H/D and right hand park - includes 1a,2a,6b,8 and 12 car set. **Order as MSSK030**
 - Heavy duty 11" blade kit for MK3 L/H/D / right hand park - includes 1b,2b,6b,8 and 12 car set. **Order as MSSK032**



For washer bottles and electric pumps see page 54

Wiper Motors & Gear

- Windscreen wiper motor MK2 on including all twin speed and intermittent wiper configurations (includes parking switch no.15) **Order as GXE7708**

Switches and Looms

- The plastic wiper motor parking switch is available individually **Order as 520160A**
- The socket and loom to fit 520160A if these parts get damaged. **Order as 520161**

Rack Cables and Wheel Boxes

- Windscreen wiper rack cable for all Minis (MK1 was originally shorter) **Order as RTC202A**
- Wiper wheel box Mk3 on including all Clubmans, with 32 teeth and metric 8 sided nut **Order individually as 37H7200**
- Wiper wheel box for MK1/2 Minis they used this longer shaped 22 tooth box which requires 6 sided UNF nut **Order as 37H6100**



Relay Switches



- Yellow multi filament relay to fit single point fog/spot lamps and alarm, twin point head light, fog/spot lamps, indicators, fan, oxygen sensor, starter and alarm. Fit as required **Order as YWB10012**
- Green relay **Order as YWB10032**
- Pink relay dim/ dip control **Order as YWC10050**
- Engine relay to fit single and twin point injection cars **Order as YWB10022**

Rear Lamps



Replacement rear lamps - complete with lenses, back plate, gasket and bulbs.

- | | | | |
|----|------------------------------------|--------------------|------------------|
| | | Right Hand | Left Hand |
| 1. | a. Replacement rear lamps MK1 | Order as 13H223 | 13H222 |
| | b. Replacement indicator lens MK1 | Order as 47H5362 | 47H5355 |
| | c. Replacement brake lens MK1 | Order as 47H5363 | 47H5358 |
| | d. Screws for lens per lamp (3) | Order as 47H5360 | 47H5360 |
| 2. | a. Replacement rear lamps Mk2/3 | Order as 13H6479 | 13H6480 |
| | b. Replacement lens Mk2/3 complete | Order as 37H4838 | 37H4837 |
| 3. | a. Replacement rear lamps Mk4 on | Order as XFB101200 | XFB101210 |
| | b. Replacement brake lens Mk4 on | Order as XFJ10026 | XFJ10027 |
| | c. Replacement reverse lens Mk4 on | Order as XFB10028 | XFJ10029 |

Rear Clear Lens

4. Includes a pair of upper indicator & brake light white sections and correct bulbs. (Clear lens kit does not fit Altissimo lamps)



- | | | |
|----|--|------------------|
| a. | Mk4 2 Lens Rear Upper 2 lens kit with bulbs | Order as MSSK035 |
| b. | Mk4 4 Lens Rear Upper & Lower kit with bulbs | Order as MSSK036 |
| c. | Mk2/3 Rear Clear Lens Kit (without reversing lamp) | Order as MSSK037 |

Reversing Lamps



- | | | |
|----|---|------------------|
| 5. | Universal reverse lamp 140mm wide 75mm high | Order as MSA1116 |
| 6. | Universal reverse lamp 83mm wide 75mm high | Order as RL015 |
| 7. | Original Leyland Wipac flush fitting reverse lamp | Order as GAL118 |
| 8. | Reverse lamp switch for rod change models (72 on), fit into gearlever housing | Order as GAE191 |

Number Plate Lamps

- | | | |
|-----|---|-----------------------|
| 9. | Metal chrome Mk1 type number plate lamp | Order as BHA4153 |
| 10. | Plastic chrome mk1 type number plate lamp | Order as BHA4154 |
| 11. | Black plastic number plate lamp | Order as 83H335 |
| 12. | Chrome metal bootlid number plate lamp | Order as 8B12501METAL |

Rear Fog Lights



Rear red fog lamps

- | | | |
|-----|---|-------------------|
| 13. | a. Genuine Rover type lamp with bracket 115mm wide 75mm high for R/H of car | Order as XFE10006 |
| | b. Genuine Rover type lamp with bracket 115mm wide 75mm high for L/H of car | Order as XFE10007 |
| 14. | A universal fog lamp 140mm wide 75mm high | Order as MSA1115 |
| 15. | A universal fog lamp 83mm wide 75mm high | Order as RL014 |

High level brake lamp For mounting to parcel shelf or rear screen

- | | | |
|-----|--------------------------|-----------------|
| 16. | 7 1/4" x 1 1/2" | Order as FIC578 |
| 17. | LED Version 10 3/4" x 1" | Order as FIC651 |



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Lighting & Lamps



ELECTRICS

Headlight Kit

LIGHTEN UP AND IMPROVE YOUR VISION

If you have not already converted to HALOGEN TYPE LAMPS

you really need to purchase this kit which contains all the parts required except the headlamp backing Bowl S5400. The light units are the same as those fitted to later minis but have chrome backed dome for better reflective qualities.

- | | | |
|-----|---|-----------------|
| 18. | a. R/H/D complete headlamp kit which has left hand dip | Order as S46988 |
| | b. L/H/D complete headlamp kit which has right hand dip | Order as S46998 |
| | c. Replacement headlamp unit for RHD | Order as S4700 |
| | d. Replacement headlamp unit for LHD | Order as S4701 |



Headlamp Units

MANY of the headlamps fitted to the Mini over 40 years of production are now obsolete. Only the following light units and sealed beams are readily available. It is advisable to try and update to modern halogen quadoptic when changing.



THE FOLLOWING ARE UK RIGHT HAND DRIVE WITH LEFT HAND DIP

- | | | |
|-----|---|--------------------|
| 19. | a. Sealed beam unit only with pilot light facility | Order as 13H3471A |
| | b. Sealed beam headlamp assembly with outer rim | Order as BHM7198 |
| 20. | Wiring loom with pilot light holder for the sealed beam | Order as BAU2111 |
| 21. | Quadoptic halogen bulb type lamp only from introduction in 1992 on | Order as XBC104430 |
| 22. | Quadoptic halogen headlamp assembly, with self levelling motor less rim. from 1996 on | Order as XBC103780 |

THE FOLLOWING ARE EURO LEFT HAND DRIVE WITH RIGHT HAND DIP

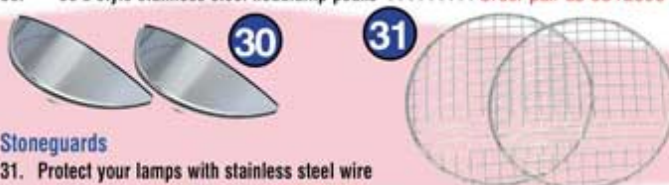
- | | | |
|-----|---|--------------------|
| 23. | 700 series L/H/D EURO bulb type lamp only | Order as 27H5981A |
| 24. | Quadoptic halogen bulb type lamp only | Order as XBC103410 |
| 25. | Quadoptic halogen headlamp assembly, with self levelling motor less rim. from 1996 on | Order as XBC105230 |
| 26. | Xenon blue upgrade headlamp bulb. H4 for quadoptic | Order as GLB472X |



- | | | |
|-----|---|----------------|
| 27. | Plastic headlamp bowl with inner retaining ring, body to lamp seal and fitting kit make this an inexpensive rust free replacement for the old Lucas metal type. | Order as S5400 |
| 28. | Metal headlamp bowl only | Order as MS14 |

Headlamp outer rims

- | | | |
|-----|--|-----------------------|
| 29. | a. Genuine chrome outer rim with screw fits all except twin point injection cars 1997 on | Order as 500929 |
| | b. Mini Spares own stainless steel version to fit all cars | Order as 500929MS |
| | c. Genuine chrome outer rim for 1997 on twin points, which have different location screw hole. | Order as DHF100060 |
| | d. Stainless steel replacement screw for rims | Order as RTC465 |
| 30. | 60's style stainless steel headlamp peaks | Order pair as 8B12399 |



Stoneguards

- | | | |
|-----|---|--------------------------|
| 31. | Protect your lamps with stainless steel wire mesh guards. | Order pair as STONEGUARD |
|-----|---|--------------------------|

- | | | |
|-----|--|------------------|
| 32. | Pair of Union Jack plastic headlamp covers (for patriotic, display or show purposes only - not for road use). Pushes on with perfect fit | Order as MSSK040 |
| 33. | A pair of clear headlamp plastic covers for removable customisation or as protective cover | Order as MSSK041 |



Front Indicators

- 
- Outer securing rim for pre 1986 indicator lamps Order as 7H5182
 - Stainless steel version of 7H5182 Order as 7H5182MS
 - Rubber gaiter Order as 50B162
 - Correct original Clip to hold lamp to front panel Order individually as AK606021
 - Screw to hold lamp to clip Order individually as GFK2256
 - Original glass orange front indicator lamp Order as 2A9013
 - Plastic orange front indicator lamp . Order as CHM13
 - Plastic white front indicator lamp Order as CHM13WHITE
 - Original orange glass lens only Order as 37H5520
 - Plastic orange lens only Order as 37H8130
 - Front side light and flasher lamp combined with clear glass lens Order as 1B9100
 - Front side light and flasher lamp combined with clear plastic lens Order as 1B9100MS
 - Clear glass lens Order as 37H6928
 - Clear plastic lens Order as 37H6928MS
 - Front indicator lamp 1986-1996 (pre twinpoint)
 - Complete lamp with orange lens Order as AFU3389
 - Complete lamp with white lens Order as AFU3389WHITE
 - Orange lens only with 2 screw holes Order as CDU3374
 - White lens with 2 screw holes including Twin Point Cars Order as CDU3374W
 - Front Indicator for Twin Point Cars (1996 on)
 - Plastic twist-on lamp holder Order as XBD100670
 - Orange offset pin bulb for this lamp Order as GLB344
 - White lens Order as CDU3374W

White Indicator Kit

- 
- White indicator lens kit for cars from 1986-1996 which includes two orange bulbs and caps for side repeater lens bulbs.
- All parts are available separately
- Clear front lens Order as CDU3374W
 - Orange indicator bulb Order as GLB343
 - Side repeater lens Order as AHU2592W
 - Orange repeater bulb Order as GLB501A
 - Complete kit - for cars from 1986-1996 Order as MSSK028
 - Complete kit - for cars with early front lens (6d) Order as MSSK028E

Side Repeaters

- 
- Side repeater as fitted to Mini Special (and export Austin 1100/1300 models) Order as AAU3296
 - Side repeater lamp, standard fitment from 1986 on
 - Red AHU2592R
 - Blue AHU2592B
 - Clear AHU2592W
 - Amber (standard) PRC9916A
 - Smoke AHU2592S
 - Bulb holder, without wiring for side repeaters Order as DCP8004

Auxiliary Lighting

- 
- Original Rover driving lamp Order as XBN10008
 - Original Rover fog lamp Order as XBJ100280
 - Original type Rover brackets when 2 lamps are fitted and also for the two central lamps on Twin point injection cars with 4 lamps . Order as XBU10044
 - Reinforced bracket to stop outer lamps vibrating on twinpoint cars. Caused by front panel valance vibrating.
 - Twin Point outer lamp bracket - Right Hand Order as XBU100640
 - Twin Point outer lamp bracket - Left hand Order as XBU100650
 - Pair of chrome halogen driving lamps with plastic covers 135mm wide 35mm deep Order as S6007
 - Pair of black halogen large driving lamps 175mm wide 58mm deep Order as LA1009
 - Pair of black halogen lamps 160mm wide 63mm deep. Can be used as a budget replacements for items 13&14.
 - Driving lamps Order as RL020
 - Fog lamps Order as RL021

SAFETY FEATURE

- 
- WHEN FITTING SPOT OR FOG LAMPS WE RECOMMEND YOU USE A WIRING AND RELAY KIT FOR SAFETY available as a kit with instructions Order as RLFK200
 - Heavy duty lamp bar as fitted to the Abingdon Special Tuning cars. Bar and 3 support brackets keep the lamps stable under any condition. We recommend you use a single lamp bracket for each lamp or this ST works type bar which mounts to the valance and front panel. This reduces the vibration, which would make the extra lights ineffective. (as present in other bars offered that straddle the original two single brackets)
 - Stainless steel copy of the original ST Works bar Order as C-AJJ3329
 - Budget lightweight version, black powder coated finish Order as MSA1101



- Stainless steel bracket for fitting auxiliary lamps Order as XBU10046
- Black painted bracket for fitting auxiliary lamps Order as XBU10045

Lamp Covers

- 
- Genuine Rover clear plastic pair of spot/fog lamp covers with Mini script logo Order as XBV100610
 - Genuine Rover tinted plastic pair of spot/fog lamp covers with Cooper emblem Order as XBV100300
 - Auxiliary fog lamp covers. Protection for spot & fog lamps, to the original Lucas design incorporating the small clear window to show if lamp remains switched on. Order individually (per lamp).
 - Lucas Q . . . 6" (152mm) MSL2010 . . 7" (178mm) Lucas Q . . MSL2040
 - Lucas Lion . 6" (152mm) MSL2025 . . 7" (178mm) Lucas Lion MSL2030

Ignition Coils



- a. High Energy Lucas Sports Coil** is only manufactured for pre ballast cars up to 1984
 Order as DLB105 **1a**

NOTE, there is no genuine ballast type sports coil available from Lucas.

b. High Energy Lumenition Sports Coil for use with Lumenition Magnetric ignition modules. It has a separate ballast supplied WHICH MUST BE USED and is suitable for every Mini except injection models. Fitting /wiring instructions enclosed Order as DLB111

c. Standard Coil for up to 1984 pre ballast cars Order as GCL216(DLB101)

d. Standard aftermarket coil for 84 on ballast type cars (except Twin Point Injection) Order as GCL217(DLB102)

e. Original equipment coil for 84 on ballast type cars as per GCL217 Order as GCL143(DLB110)

f. Twin Point Injection Coil Order as GCL204

Distributors

Range of distributors without vacuum unit.

- The Aldon type for performance engines are converted from 45D non-vacuum type distributors with red points. The vacuum type are usually 45/59D with blue points.

a. Aldon road rally pre A-plus Order as ALDONY

b. Aldon road rally A-plus Order as ALDONY+

c. Aldon race distributor pre A-plus Order as ALDONR

d. Aldon race distributor A-plus . Order as ALDONR+

Range of distributors with vacuum unit.

- Recommended for all road cars.

a. Aldon road rally pre A-plus . Order as C-27H7766

b. Aldon road rally A-plus Order as C-27H7767

c. 25D4 Aldon road/rally with vacuum unit. Order as C-27H7768

d. Original 25D type Mini distributor with vacuum unit Order as GEU930



Electronic Ignition

- The Ignitor electronic kit for every use. Fits under the distributor cap. Easy to fit. Negative earth only.

a. For 23D and 25D type. Order as LU142

b. For 43/45D distributor with red points. Order as LU143

c. For 59D distributor with blue points. Order as LU144



Lumenition Magnetric Ignition System.

Designed to replace troublesome points with a simple drop in installation. Each unit comes complete with all you need to fit the system straight into your existing distributor.

- For 23/25D type Order as MTK003
- For 45/59D type Order as MTK007



60 Ignition



NGK Spark Plugs



- On NGK plugs the higher the number, the cooler running the plug. On a good engine the plug will foul/blacken up if running on too cool a plug. If the plugs foul/blacken up when fuel mixture is correct, the plug temperature is too cool. Copper core plugs give better ignitability and cold weather starting, which gives a more complete combustion, that in turn provides better engine performance.

Recommended Spark Plug Use

Engine	Copper Core Projected Nose	Copper Core Recessed Nose When high compression	Gold Palladium Projected Electrode Nose Good ignitability on low voltage	Gold Palladium Recessed Electrode Nose
850/998	BP5ES	N/A	N/A	N/A
998/1275	BP6ES	N/A	BP6EV	N/A
Tuned Road	BP7ES	B7ES	BP7EVX	B8EVX High Compression and Turbo
Highly tuned/Road Rally	BP8ES	B8ES	N/A	B9EV High Compression and Turbo
Race	BP9ES	N/A	N/A	N/A
Eight Port	10mm C8E Road 8 Port		10mm C9E Road 8 Port	

Plugs denoted by V have gold palladium centre electrodes which give good ignitability and only require low voltage.

Vehicles with electronic ignition require Resistor plugs denoted by an R. They offer protection to engine management systems, car radios and telephones. Check manufacturers notes for plug gap size. Catalyst cars usually require 2 thou more gap. These resistor plugs have copper core projected nose.

- Single point Injection cars BPR6ES
 Tuned single point BPR7ES
 Twin point injection BPR6EVG

Silicon Lead Sets

Lumenition Lead sets

- 8mm blue silicon hi conductivity lead set.

a. all cars except twin point cars Order as BLS529

b. for twin points only Order as BLS541

c. Red silicon lead set, except twin point. Order as HV22

High Performance 8mm Lead sets

- a.** High performance 8mm thick silicon lead set Order as C-27H7779

b. Lead set for original MK1/2 with screw in type lead set Order as GHT101

c. Double silicon lead set in black Order as GHT241BLACK

d. Twin point ignition lead set . . . Order as GHT289

Ignition Service Items



	MK1 to 1967 25d side-entry screw-in	Mk2/3 to 1974 25d top-entry push-in	Cooper "S" 25d side & top entry	1974 on 45d type with red points	1980 on 59D type with blue points	Electronic distributor 1.3 1990on	Ducellier red type cap distributor	Lucas blue cap Turbo 82-84	Special flat cap conversion
Cap number	a GDC102	b GDC103	a/b GDC102/GDC103	g GDC136	g GDC136	l GDC156	n GDC214	r GDC143	s GDC150
Contact set	c GCS2101	c GCS2101	d GCS3001	h GCS2118 (red)	i GCS2261 (blue)	N/A	o GCS119	N/A	N/A
Condenser	e GSC2111	e GSC2111	e GSC2111	j GSC2109	j GSC2109	N/A	p GSC2113	N/A	N/A
Rotor	f GRA2101	f GRA2101	f GRA2101	k GRA2114	k GRA2114	m GRA2143	q GRA2123	t GRA2130	t GRA2130

Power Window Conversion

Electric Window Kit

1. Designed specifically for the Mini (pre door crash bar 1997on) where windup windows are fitted. The kit can be fitted to later models but needs professional fitting and is a very tight fit. The complete kit for 2 doors has all the necessary parts and full instructions. A really useful luxury item Order as MSSK2000



Central Locking Conversions



Two central locking kits are alternatives.

2. Sadly lacking on the latest Mini, the kit can be fitted with the electric window kit to give an up to date feeling. The kit will not activate remotely with the alarm fitted by Rover as standard. Order as MSSK2001

3. This kit will enable the passenger door to be locked/unlocked when the key is turned in the driver's door and vice versa.

The addition of the alarm interface kit (item-6 attaches directly), will enable full remote control locking and unlocking of both doors. The kits are suitable for all Minis equipped with factory remote control alarm systems.

. Order as MSSK2004



Wiper Delay

4. This wiper delay conversion kit will allow normal fast and slow wiper operation, but if you operate the 'flick-wipe' twice in succession it will 'learn' the delay between each flick and then allow intermittent wipes using this time delay.

The delay can be anything between 2 and 20 seconds. A rapid double flick will terminate the sequence. Also, operation of the screen wash will initiate a slow wipe for three wipes of the screen. Installation involves only three wires, can be installed in a few minutes. Order as MSSK2005



Dash Illumination

Dash Illumination and Lights-on Chime

5. This upgrade will enable you to illuminate your dash switches to save you fumbling in the dark. The kit also adds a lights-on chime to avoid leaving your lights on and draining the battery.

The kit will allow the Brake Test Switch, the Rear Screen Heater Switch, the Fog Light Switch, and the Hazard Warning Switch to be illuminated when the main lights are on. It will also sound a reminder chime if the door is opened when the lights are on and the ignition is off. Order as MSSK2007



Alarm Interface

Remote Central Locking Upgrade for Factory R/C Alarm

6. By adding this alarm interface kit to the central locking kit (item 2/3) you can operate the central locking using your existing Rover alarm remote control.

(Fits Items 2/3, but designed to fit 3 without modification to the wires).

The kits are suitable for all Minis equipped with factory remote control alarm systems. Order as MSSK2006



Keyless Entry & Alarm

Keyless Entry Kit

7. For use with the central locking kit (item 2/3). Apart from the ease of locking and unlocking your car, the kit can be used with the ignition on as extra security. Not compatible with Rover alarms. Order as MSSK2002



Remote Control Alarm or Keyless Entry System

when used with items 2.

8. The kit has ten security features, which can be turned on/off by accessing the programme mode. All the usual alarm features including anti-car jacking. Order as MSSK2003

Omex Electronics

Professional type of electronic lighting to indicate when to change gear.

9. Clubman engine rev limiter. Order as C-AHT624
10. Gear shift Clubman type. Order as C-AHT625
11. Pro gear shift where no tachometer display is present. Order as C-AHT626
12. Sequential gear shift with separate 4 light increment as you approach shift point. Order as C-AHT627



OMEX PERFORMANCE
ELECTRONICS BEST AVAILABLE
BY INDEPENDENT SURVEY.

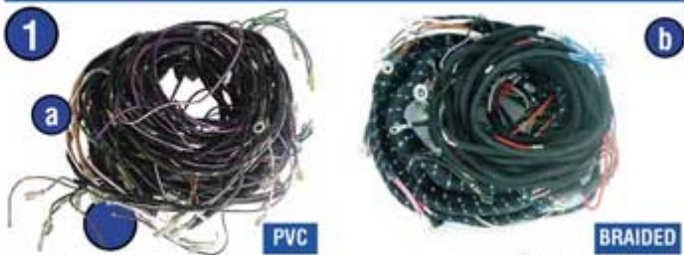
Circuit Breakers

Fitting of a general circuit breaker which isolates the battery from all electrical equipment has become mandatory in nearly all forms of Motorsport. The switch has to be accessible from inside and outside the car. The external trigger should be located on the windscreen scuttle panel - preferably on the driver's side. It should be clearly marked by a red flash in a white edged blue triangle with a base of at least 12cm.

13. Quality circuit breaker-battery line only Order as MW003
14. FIA appendix requirement cut out with special diode protection device to allow switch off whilst the engine is running without damaging the electrical equipment (ie. alternator, electronic ignitions, etc.) . . . Order as MW002
15. Sheet of safety stickers as required for competition especially indicating circuit breaker Order as PP8
16. Immobiliser and isolator kit for battery. Ideal for leaving car standing with battery fitted, preventing discharge and a very effective immobiliser. Order as MW004



Wiring Looms & Cables



1. Wiring Looms
- | | a PVC | b BRAIDED |
|---|----------|-----------|
| Mini Mk1 floor start with dynamo 850 | .5L322 | .5L191 |
| Mk1 Mini Deluxe and Cooper with dynamo | .5L224 | .5L503 |
| Mk1 Mini and Cooper with alternator | | .5L670 |
| Mk1 Cooper S with dynamo | | .5L518 |
| Mk1 Cooper S with alternator | | .5L672 |
| Mk2 Mini and Cooper | .5L594 | |
| Mk2 Cooper S with dynamo | .5L832 | .5L691 |
| Mk2 Cooper S with alternator | | .5L692 |
| Mk3 Mini with alternator 1000cc 1972-5 | .HAM2174 | |
| Mk3 Cooper S with dynamo | .5L954 | |
| Mk3 Cooper S and Mk3 Mini to 76 with alternator | .5L1331 | |
| 1275GT pre 76 with alternator | .5L1334 | |
| 1275GT 76 on | .HAM1200 | |

These are our popular stock items but others such as van/estate or rear looms are all available to special order only



2. Central Clock Conversion Harness
Order as PM05
3. Wing Side Repeater Loom 1986 on
Order as AFU3358

Indicator / Wiper Stalk Units

For MK1 1959-1967 see page 49 (item 24)

LEFT	RIGHT
1967 - 1976	
Mk2 1967-69 had bullet terminals now use 13H7779 with spade terminals and modify wires.	Indicator Order as 13H7779
1976 - 1984 UK	
Wipers Order as 37H8285	Indicator Order as 21A2658
1976 - 1989 EURO	
Indicator Order as 21A2660	Wipers Order as 37H8286
1989 - 1996 ALL	
Indicator Order as BAU5345	Wipers Order as BAU5346
1996 Twinpoint on	
Indicator Order as XPC100200PMP	Wipers Order as XPE100420PMP

Indicator & Hazard Units



Horns



- A working car horn is not only a necessity it is also a legal requirement in England and most other countries. Many are interchangeable, High or low tones are available. Check how many terminals for multiple fitting
4. a. Single Spade Terminal with high tone open trumpet ... Order as GGE101
b. Single Spade Terminal with low tone open trumpet ... Order as GGE102
5. a. Twin Spade Terminal with high tone open trumpet ... Order as GGE164
b. Twin Spade Terminal with low tone open trumpet ... Order as GGE165
c. High & Low Tone horn Pair with relay (better sound) ... Order as LMA782
6. Single Spade Sealed Horn less trumpet as fitted from 1985-1997 ... Order as GGE157
7. Large Horn with Trumpet and Safety Plug Terminal (not shown) as fitted from 1997 ... Order as GGE161

Air Horns

8. a. Air Horns with Red Trumpets ... Order as FD2P
b. Air Horns with Chrome Trumpets ... Order as DFD2C

Battery Ancillaries

9. Battery box cover ... Order as 5L877
10. Strap for battery cover ... Order as 14A7776
11. a. Battery bar pre 1990 ... Order as HAM2457
b. Battery bar 1990 on ... Order as YGJ100010
12. a. Battery bolt 6mm long pre 1990 ... Order as 5L1158
b. Battery bolt 8.5mm long extra thread 1990 on ... Order as YJH100010
13. a. Battery bolt 5.5mm long pre 1990 ... Order as 5L1159
b. 7.5mm long extra thread 1990 on ... Order as YJJ100040

Electrical Spares

14. Starter Solenoid
a. 3 terminal fits most Minis . Order as 13H5952
b. 4 terminal fits 1983-85 . . . Order as ADU5728
15. Original Special Tuning alloy heavy duty alternator bracket. Only fits Pre A-plus engines. ... Order as C-AHT32
16. Control Box. ... Order as GEU6603
17. a. 4 Fuse Box Square Type 1976-96 (with cover & fuses) ... Order as RTC440A
b. Fuse Box Cover Square Type Order as 518995A
18. a. 2 Fuse Box from 1959-76 (with cover & no fuses) ... Order as 606253A
b. Fuse Box Cover for above Order as 505158A
19. Engine to Earth Strap. Order as 5L1137
20. Battery Earth Strap Order as 5L888MS

Speedo Cables



- Speedo cables with grey plastic ends were fitted to all Clubman body shape Minis and also 1980-88 Minis with Smiths twin type clock, positioned in front of the driver. No.1 ends are interchangeable with No.4 and used on many of our cables.
 - Early cars and L/H/D where cable length is 33" or less. Order as GSD102
 - Later cars where 48" cable was fitted or required pre 1990. Order as GSD415
- Innocenti speedo 26" cable for Veglia or Jaeger clocks that have small union and nut. Order as L362120
- Speedo cable for cars that have the original Smiths centre positioned clock with built in fuel gauge such as Minis pre 1979 and any vans. (Not Clubman).
 - Original cable with length of 26" Order as GSD101MS
 - Longer cable with length of 30" as used when converting cars post 1990 to central speedo cowl assembly. Order as 0722-30
 - Cable with length of 36" when moving central speedo to a position in front of driver. Order as 0722-36
 - Mini Moke speedo cable and also used when moving central speedo to a new location. 39" long also used on old Austin, Morris 1100/1300 style vehicles. Order as 0722-39
 - 48" extra long cable for specials when required. Order as 0722-48
 - Super long cable for some rear engine specials requiring 66" length. Also fits Austin Healey Sprites and MG Midgets. Order as 0722-66
- Cables with white plastic ends were introduced by Rover when they started fitting the Nikon Seiki range of speedos and gauges in 1988. The grey type are interchangeable and are commonly used when looking for different lengths.
 - R/H/D 42.5" long. Order as GSD487
 - L/H/D 29" long. Order as GSD488

Smith's Tachometer



Range of authentic Smith's 80mm gauges made using the original tooling.

Available with black or Magnolia dial faces.

- 0 - 80 x 100 80mm diameter electronic impulse tachometer with chrome bezel and full wiring diagrams.
 - in black. Order as SIB120
 - In Magnolia. Order as SIB 120MG
- 0 - 100 x 100 80mm diameter electronic distributor/coil sensed tachometer with chrome bezel and full wiring diagram.
 - in black. Order as SIB122
 - In Magnolia. Order as SIB122MG
- POD for 80mm tachometer.
 - In black. Order as SIB800
 - In chrome. Order as SIB801

Smith's Speedos

-
- 130mph speedo with fuel gauge and voltage stabiliser fitted for 3.4 final drive ratio.
 - black face as shown. Order as 13H4442
 - magnolia face. Order as 13H4442MG
 - 200kph speedo with fuel gauge and voltage stabiliser fitted for 3.4 final drive ratio.
 - black face as shown. Order as 13H4444
 - magnolia face. Order as 13H4444MG

Recalibration will be required on vehicles without 10" wheels.
 - Original Cooper "S" speedo housing. All the parts in this original Cooper "S" speedo housing as shown. Wiring loom for speedo cluster is PM05 (see page 62).
 - Black plastic fascia casing - bare. Order as 24A2702
 - Oval Beading. Order as 14A9907
 - Clips for oval beading (qty 14 reqd). Order individually as 14A9796
 - Temperature gauge, electrically operated with C.N.H reading - black. Order as 13H4460
 - As above - manolia. Order as 13H4460MG
 - Oil gauge, mechanical with 0-100 lb/sq.inch reading, black. Order as 13H4459
 - As above - manolia. Order as 13H4459MG
 - Fuel gauge for central speedo from 1964 on when voltage stabiliser is fitted - black. Order as 13H2133
 - Fuel gauge for central speedo from 1964 on when voltage stabiliser is fitted - magnolia. Order as 13H2133MG

Smith's Gauges



Auxiliary 52mm Smith's clocks with chrome rim

All Smith's gauges available in: Black Magnolia

- Voltmeter. SIB220 SIB220MG
- Ammeter with 60-60 Scale. SIB320 SIB320MG
- Oil pressure gauge 0 - 100lb/in" with connecting pipe for mechanical fittings. SIB521 SIB521MG
- Electric clock. SIB110 SIB110MG
- Oil temperature gauge mechanical fitting (many racers fit into sump plug location using HPSB union. see P64 No.23). SIB420 SIB420MG
- Water temperature 30 - 110 degrees centigrade, with 6" 6" capillary mechanical fittings. SIB422 SIB422MG
- Dual oil pressure/water temperature gauge with all capillary mechanical fittings. SIB130 SIB130MG

Tim Gauges

Tim gauges have black rims (chrome accessory rim available) and glare free internal illuminations, complete with fitting instructions. All gauges are 52mm (2 1/16") diameter except 80mm diameter tachometers.



1. **Ammeter gauge** with 60-60 amps grading for use with alternator only. Can be used for 6 or 12 volt systems with either positive or negative earth. Order as TIM004
2. **Water temperature gauge** with 40-120 degree centigrade calibration. This is a mechanical movement gauge which comes complete with 57" long metal capillary tube. Order as TIM005
3. **Oil pressure gauge** with 0-100 lbs calibration, complete with copper pipeline and 'T' piece fittings. Order as TIM006
4. **Battery voltmeter gauge**, warns you of electrical or charging defects, low battery condition. Order as TIM007
5. **Vacuum performance gauge**, mechanical movements and coloured segments indicating performance with 0-30 ins/hg scale. Order as TIM008
6. **Electrically operated temperature gauges** with 0-12 centigrade scale. For negative earth only. Order as TIM034
7. **Time clock** with a second hand. Quartz mechanism, negative earth only. Order as TIM002
8. **Adaptor for oil gauge** if a plastic hose is preferred to original metal type. Order as LMA017
9. **Chrome bezel** to fit all 52mm gauges only. Order as TIM023
10. **Tachometer** with 0-80 RMP x 100 scale 80mm (3 1/8") diameter pod mounted for fitting on or under dash. Suitable for 4, 6, 8 cylinder petrol engines with negative earth. Order as TIM011
11. **Tachometer** 0-8 RMP x 1000 scale. But this is the small 52mm diameter for dash installation. Easy to fit suitable for 4, 6, 8 cylinder with negative earth for petrol engines only. Order as TIM014
12. **A dash mounting pod** to hold any 52mm gauge. Order as TIM039



Mechanical Tachometer Kit

13. **80mm mechanical tachometer kit.** The ultimate in rev counters. Driven directly from the end of the cam shaft makes this the most accurate indication of engine speed. Being purely mechanical, it does not suffer variations created by electronic components or needle damping employed in electrical tachos. It is unaffected by ignition types (points or electronic) or electrical fields created by the ignition system. The needle is a linear sweep - similar to a speedo - not the ratcheting type, going from 0-10,000 rpm.



The kit comes complete - tachometer, 48" drive cable, mounting boss, special Oldham coupling, cam nut, and relevant screws. The mounting boss for the gearbox has been designed so that it can be easily adapted to fit any type of timing gear cover - be it belt or chain drive - by a simple machining operation.

Order as C-STR1058

64

Gauges



ELECTRICS

Capillary Pipes & Fittings

14. **5 ft plastic oil pipe**. Order as OL
15. **Angled oil pipe adaptor** for fitting in confined spaces to eradicate damaging oil pipe. Order as OAA
16. **Oil gauge adaptor** for fitting into block or T-piece. Order as OA
17. **'T' piece** for fitting to block enabling oil gauge and switch to be used together. Order as TP
18. **Temperature gauge adaptor** for fitting cylinder head or thermostat housing with take off. Already supplied with TIM gauges, but useful for SMITHS and other makes. Order as TE5
19. **Oil pressure switch** that triggers off when oil pressure drops below 22LB. Order as HPS1
20. **Magnetic sump plug** with extension to collect all magnetic debris in the gearbox. Order as DP1
21. **Oil pressure adjustable switch** that activates between 15-60lb as required. Order as HPS3
22. **Standard replacement oil switch** that activates at about 7-10LB. Order as GPS133
23. **Capillary take-off sump plug.** This is the sump plug required to fit a capillary type Smiths oil temperature gauge, as used by racers. Order as HPS8
24. **Oil Pressure Switch** fitted from 1996 on. Order as GPS135
25. **Oil temperature transducer.** Fitted as standard on all twin point cars from 1996 which have electrical oil temperature gauge, this transducer switch replaces the oil pressure release cap on the engine block. Order as YCB100320

Gauge Mounting Bezel

26. **Metal bezel for holding 52mm gauges.** Available in Chrome Black
 - a. Chrome with single hole Order as TIM021 LMA049
 - b. Chrome with two holes Order as TIM022 LMA048



Coloured Dial Kits



1. **Coloured Dial Kits.** Brighten up your dash with these dial colour conversion kits, available for 2 or 3 clock versions in Silver, blue, yellow, white, red and magnolia. Fits Nippon Seiko clocks only from 1988 on... **Order as DASH0100** (please add your colour choice as a suffix ie DASH0100BLUE for a blue kit)

Wooden Dashboards & Trim



2. **Wooden dashes** are available in Burr Walnut or charcoal grey with 2 or 3 clock holes and R/H/D or L/H/D. The 3 clock versions are also available with 3 extra gauge holes above the radio blanking cover.
- a. 2 clock Burr dash R/H/D **Order as DASH003**
 - b. 2 clock Burr dash L/H/D **Order as DASH004**
 - c. 2 clock charcoal grey dark dash R/H/D **Order as DASH019**
 - d. 3 clock Burr Walnut dash R/H/D **Order as DASH005**
 - e. 3 + 3 extra clock Burr Walnut dash R/H/D **Order as DASH006**
 - f. 3 clock Burr Walnut dash L/H/D **Order as DASH007**
 - g. 3 + 3 extra clock Burr Walnut dash L/H/D **Order as DASH008**
 - h. 3 clock charcoal grey dash R/H/D **Order as DASH009**
 - i. 3 + 3 extra clock charcoal grey dash R/H/D **Order as DASH010**
 - j. 3 clock charcoal grey dash L/H/D **Order as DASH011**
 - k. 3 + 3 extra clock charcoal grey dash L/H/D **Order as DASH012**
3. **Door and rear side window cappings.** Sold as a set of four only
- Burr walnut finish **Order as MSA0191**
 - For grey **Order as MSA0200**
4. **Door pull handles,** sold as a pair only.
- Burr walnut finish **Order as MSA0192**
 - For grey **Order as MSA0201**
5. **Door opening handles,** sold as a set of two only
- Burr walnut finish **Order as MSA0193**
 - For grey **Order as MSA0202**
6. **Door window winder handles,** sold as a pair only.
- Burr walnut finish **Order as MSA0194**
 - For grey **Order as MSA0203**
7. **Handbrake grip in burr walnut** **Order as MSA0195**
- For grey **Order as MSA0204**
8. **Gearlever knob in burr walnut** **Order as MSA0196**
- For grey **Order as MSA0205**

Wooden Switch Surrounds



To compliment dashboards

9. For use when heater and manual choke are used with 5 rocker switches
- a. For Burr Walnut **Order as YSP025**
- For use when heater and manual choke are used with 4 rocker switches
- b. For Burr Walnut (not shown) **Order as YSP024**
10. For use on fuel injected models with hole for heater cable only and 5 switches
- a. For Burr Walnut **Order as YSP026**
- For use on fuel injected models with hole for heater cable only and 4 rocker switches
- b. For Burr Walnut (not shown) **Order as YSP027**

Central Speedo Dash



11. **Dash with central speedo hole** and 2 gauges as per original Cooper's made to only fit with wide top dash pads as fitted to all late cars, ie. When changing from speedo in front of driver to central position but converting to old type speedo.
- a. Central speedo Burr dash 1985 on **Order as DASH001**
 - b. Central speedo charcoal grey 1985 on **Order as DASH002**

Brushed Alloy Dashboards



12. **Brushed alloy dash.** Made as per the wooden dash but with a small chequered grain stainless steel finish. Dark charcoal grey wood effect is used on the clock and glove box surrounds. The glove box is to latest safety specifications without a protruding knob. Only available in R/H/D. (shown with silver dial kit fitted)
- a. 2 dials **Order as DASH015**
 - b. 3 dials **Order as DASH017**
 - c. 3 + 3 extra dials **Order as DASH018**



Three extra dial holes above radio cutout. is only available on 3 clock versions of No. 2 & 12 (for Smiths gauges see page 63)

Air Vent Trims



13. **Chrome on plastic 4 piece kit to fit air vents.** Includes air vent knob covers. A favourite for cars with wooden dashes **Order as MSA0212**
14. **Set of two Stainless Steel air vent covers.** These will enhance any dash board and can be used on either wooden or brushed alloy dashes **Order as MSA0210**
- NOTE: All have to be stuck on**

Control Cables



Choke Cable & Knob

- Original early locking choke cable - when twin carbs, as per Cooper. Order as 21A 1204
- Original early Mini choke cable. Order as 21A 1202
- Rubber / plastic -twist to lock- choke cable Order as 21A 2329
- Rubber / plastic -ratchet type- locking choke cable 31" long Order as SBF 10027
 - As above but 36" long for 1300cc 1990 onwards Order as SBF 10031



Heater Cable & Knob

- Original early heater control cable. Order as 14A 9988
- Rubber / plastic knob heater control cable from 1968 - 1988, with emblem Order as CHM 373
- These cables are only available without the centre logo. Use your existing emblem or use latest red and blue emblem JFD10039. (as shown)
 - Rubber / plastic knob heater control cable from 1988 when plastic heater valve is fitted. 31.25" (no emblem supplied) Order as JFF 10003
 - Rubber / plastic knob heater control cable for single point 42.25" (no emblem) Order as JFF 10051
 - Rubber / plastic knob heater control cable for twin point 1996 on (no emblem) Order as JFF 100910
 - Latest heater emblem needed for above Order as JFD 10039

Different heater cable ends



Bonnet Release

- Bonnet release cable. As supplied in kit GS130273 P55 No.18. Fitted as standard, injection cars on Order as FSE10020



Accelerator Cables

- ST single throttle cable, over 5" longer than standard with a nylon inner sleeve to prevent sticking. Inner cable has a crimped ends to prevent fraying. Ideal for Weber or SU fittings. Order as C-AHT85
 - Standard production accelerator cables all Minis up 1990 with plain cable R/H/D Order as NAM7914
 - Minis 1990 on with white plastic fixing shroud R/H/D Order as SBB10099
 - Minis 1990 on with white plastic fixing shroud L/H/D Order as SBB10126
 - Single point injection cars R/H/D Order as SBB10187
 - Single point injection cars L/H/D Order as SBB10186
 - Twin point injection cars R/H/D Order as SBB103400
 - Twin point injection cars L/H/D Order as SBB103720

Heater Control Panel

- Heater control panel. The complete new unit as shown with the lever moving on a plastic base is available with the universal later two speed switch to fit 1997 on Twin Point cars. The complete new unit as shown with the lever mechanism moving on a plastic base will eradicate any of the following problems:
 - Broken on/off switch
 - Control knob missing
 - Looks tatty and rattles
 - Hard to operate



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Knobs and Dials



INTERIOR

Aerials

- Wing mounting telescopic aerial, budget replacement Order as MSA1118
- Roof aerial for the 60's look. Stainless Steel Order as MSA1119
- Replacement roof aerial antenna as fitted standard from 1996. To replace original (not shown) Order as XUJ100070
- Anti Theft Aerial. Chrome & anodised 'staybright' aluminium aerials, includes 2 rods that can be cut down to any size. Fits all cars with screw in aerials 1996 on.
 - Blue Order as NMA1081
 - Red Order as NMA1080
 - Black Order as NMA1082



Gear Lever Knobs

- Burr walnut gear lever knob with latest Mini emblem. Order as MSA0196
- Round alloy gear lever knob. Order as BG8110
- Round alloy gear knob with recess to fit emblem Order as BG8114
- Original Mini gear lever knob pre 1973. Order as 22G110
- Wood gear knob, no motif for stick-on emblems. Order as BG2602
- Leather gear lever knob, no motif for stick-on emblems. Order as BG2702
- Series 500 Gearknob fits all manual Minis. Order as BG8111

Speedwell Gear Knob & Extension

- Speedwell gearknob Order as BG8118
- Gear lever extension supplied complete with locking nut as shown. Order as BG8119

Gear Knob Emblems



- Stick on emblems are available in the following designs, these are suitable for any recessed gear knobs, key fobs or steering wheel bases.
 - Union Jack Order as MSA2004
 - BMC motif Order as MSA2008
 - GT Order as MSA2006
 - Austin Order as MSA2005
 - Mini Order as MSA2003
 - Cooper Order as MSA2007
 - 5 Speed Order as MSA2000

Moto-Lita Wheels

Classic Woodrim Wheels

Since the 1950's MOTO-LITA have been designing and hand building custom steering wheels. Aston-Martin, Cooper Car Co, Caterham, MG Car Co and Rover are just a few of the companies who have chosen MOTO-LITA steering wheels for their handmade, enhanced driving comfort, and functional good looks. MOTO-LITA steering wheels are designed and handbuilt in England by British craftsman.

Are all completely hand finished with finger notches carved into the under side.

1. 13" dished spoke Mk 3 with holes (without boss) **Order as MLW1116-13**
2. 13" dished spoke Mk 3 with slots (without boss) **Order as MLW1118-13**



Retro 'Cooper' Style Wheel

3. Retro 13" Steering Wheel. Has billet centre boss reminiscent of the old classic Cooper type. **Order as SWAB001**

Bosses

4. Boss to fit Mountney steering wheels. One black centre boss to fit all our Mountney Classic range with black or brightwork screws for customer's own choice. Has a centre horn push facility for early cars.



Moto-Lita Adaptor bosses

- a. Mota-Lita Horn Push 59-67 Mk1 **Order as MLW1117B1M**
- b. Mota-Lita Horn Push 67-69 Mk2 **Order as MLW1117B1HM**
- c. Mota-Lita Horn Push 70-75 Mk3 **Order as MLW111725M**
- d. Mota-Lita Horn Push 76 > Mk4 twin stalk **Order as MLW111745M**

For cars 1989 on there is only one indicator cancelling pin, match the boss to the existing wheel and remove the unwanted pin.



6. Multi Hole Boss Adaptor Kit to fit all Mountney 'M' range of steering wheels plus Momo, Jamex, BBS, Sparco and others. **Order as SWABM**

'Snap-off' Boss Assembly

7. Genuine Raid snap off steering wheel boss.

Designed for instant removal of steering wheel as an anti theft device. No wheel, No steal!

Will fit M range wheels (No.15), Momo, Jamex, BBS and Sparco. Will not fit Moutney Classic wheels.

Order as SWABS



Moutney Classic Wheels

8. Black centre 3 spoke 12" leather semi-dished wheel only (without boss). **Order as 23SBLB**
9. Polished centre 3 spoke 12" semi-dished steering wheel (without boss) **Order as 23SPLB**



10. 13" diameter 3 spoke, semi dished steering wheel with dark wooden rim, polished centre. (without boss) **Order as 353SPW**

- a. Black centre 3 spoke 13" with slots, leather semi-dished steering wheel (without boss) **Order as 33SBLB**

- b. Polished centre 3 spoke 13" with slots, leather semi-dished steering wheel (without boss) **Order as 33SPLB**

- a. Classic 1960's and 1970's look. Polished centre 3 spoke 13" with holes, leather semi-dished steering wheel (without boss) **Order as 33SPLBH**

- b. With black centre (without boss) **Order as 33SBLBH**

- a. Black centre 4 spoke 13" leather semi-dished steering wheel (without boss). **Order as 34SBLB**

- b. Black centre 4 spoke 14" leather semi-dished steering wheel (without boss). **Order as 44SBLB**

- a. Polished centre 4 spoke 13" leather semi-dished steering wheel (without boss). **Order as 34SPLB**

- b. Polished centre 4 spoke 14" leather semi-dished steering wheel (without boss) **Order as 44SPLB**



Moutney M Range

15. M range black moulded 3 spoke black centre, with perforated hand grip areas 340mm diameter. (without boss) **Order as M34M3P**

This is the steering wheel required to use the snap off boss assembly (No.7) or can be used with original M Range boss (No.6)



Horn Push Assembly Mk1

- a. Horn Push Assembly with Austin emblem **Order as 27H6943**
- b. Horn Push Assembly. Note, Morris horn push is no longer available but for horn push less the centre motif **Order as 27H6944**



Steering Column Bracket

17. Steering column lowering bracket. not suitable for airbag models 1996 on **Order as BG5101MS**



Please note that none of the steering wheels shown here are suitable for use on Air Bag Steering Wheels (from 1997on)

Soundproofing



Soundproofing for Mini firewall with fire retardant backing

- Bulkhead fire wall sound deadening piece for MK3 cars, 1970 onwards**
..... Order as CZH798
- Bulkhead fire wall sound deadening piece for MK1/2 and vans etc.**
..... Order as 24A280



- Front and rear set of shaped floor sound deadening felts with the front wheel arches**
..... Order as FELT01
- Roll of fire retardant felt (1 x 1.37 metre)**
..... Order as FELT
- Tub of felt adhesive (250ml)**
..... Order as FELT860

Bonnet insulation kit

- Includes 4 segments to fit in between stiffener supports under bonnet sound insulation keeps engine noise from entering driving compartment**
..... Order as 47H9615
- Three part soundproof kit.** Includes the tailored floor kit with front wheel arches, plus the bonnet and bulk head pieces, great for reducing road noise on old cars or replacing lost or worn out pieces.
 - For Mk1/2 Minis pre 1970 (items no. 2,3a&4)** Order as MS90
 - For Mk3 Minis 1970 on (items no. 1,3a&4)** Order as MS91
- Sound proofing pads 8x19" approx.** Stick on (commonly used in doors & roof)
..... Order individually as PT4008

Boot Board & Liner

- Boot Board, black carpet with edge piping.**
 - fits with 5.5 gallon single tank pre 1974**
..... Order as CCC110
 - fits with 7.5 gallon single tank 1974 to injection** Order as CCC111
 - fits with 5.5 gallon twin tank**
..... Order as CCC112
 - fits all injection cars** Order as CCC113
 - original type boot board brackets and rubber buffers** . Order as CCC115

Bootlid Internal Liner

- Bootlid internal liner panel for insulation and protection of bootlid from dents and scrapes fittings included.** Order as 14A9838
- Plastic boot load liner, sturdy, lightweight and easily removeable.** This liner is tailor made for cars from 1974 on with larger 7.5 gallon petrol tanks. Keeps your luggage clean and helps to stop small items rolling around, by having a box section for de-icer, tools and polish, etc. Order as EBF100150



Spare Wheel Cover

- Soft material.** For cars with wheel well for carrying spare in horizontal position. 10 and 12" wheels only. Order as CK902



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Trim Items



INTERIOR

Protective Liners

- Camlo front underwing arches** protect the A panels, windscreen scuttle, front panel and wings from dirt and water that cause rust. Also helps to quieten car from road noise. These arches will only fit pre 1989 car bodies. Sold as a pair. Order as CAMLO1
- Camlo front underwing arches** to fit the Mini Clubman. Sold in a pair.
..... Order as CAMLO3
- Camlo liner** fits in original battery box to prevent battery acid corrosion. Order as CAMLO2



Rear Mudflaps

These are made to fit all saloons from 1984 onwards or any year when the Mini special plastic arches are fitted, tailored to fit with these arches only. They are sold in pairs.

- With the Mini Cooper laurel emblem**
..... Order as CAT10044
- With the word 'Mini' emblem**
..... Order as AJM164
- With the latest Mini logo emblem**
..... Order as CAT100870



Waterproof Car Cover

- Custom fitted car covers with under body straps, double stitched & elasticated hems.** Comes with storage bag.
 - Heavy duty Outdoor Mini Saloon car cover.** Totally waterproof, vented, soft lined vehicle cover with ultimate weather protection . . . Order as CCC101
 - Indoor Mini Saloon tailored car cover.** Breathable, water resistant, light weight vehicle cover. Order as CCC103

- Mini pickup flat tilt cover.** Supplied with eyelets & fittings for custom installation. Black only. Order as 14E3062

Heavy Duty Overmats



Heavy duty specially tailored overmats with either Mini, Mini Cooper or Mini Spares Logo as shown. Complete set front and rear.

- 1. 'Mini Cooper' emblem Order pair as CARPET13
- 2. 'Mini' emblem Order pair as CARPET12
- 3. 'Mini Spares Logo' emblem Order pair as CARPET11



- 4. Cannon Rubber Overmats. Non slip back for extra safety. Set of low cost rubber overmats to protect carpets. Grey carpet has heel pad on drivers side, front mats are tailored for 2 sizes with easy cutting groves for exact fit. Sold as a set of 4 (as shown) Order as EAH104380
- 5. Square rubber mats for rear (not shown) Order individually as GAC181

Gear Lever Gaiters

- 6. Magic wand Gear Lever Rubber Gaiter. 1959 upto introduction of remote control type. Order as 14A6860
- 7. a. Remote type Gear Lever Rubber Gaiter. upto 1973 when rod change type was introduced. Order as 22A608
- b. Metal Gaiter retainer for above ... Order as 14A9942
- 8. a. Rod Change type Gear Lever Rubber Gaiter. from 1973. Order as CZH4278
- b. Metal Gaiter retainer for above . . Order as FJN10003



Carpet Sets

- 9. Universal Carpet sets with two heel pads (gear lever hole needs cutting)
 - a. Grey with edge beading Order as CARPET03
 - b. Red with edge beading Order as CARPET05
 - c. Black with edge beading Order as MS126
 - d. Blue with edge beading Order as CARPET06
 - e. Dark grey carpet without edge beading Order as CARPET02



Deluxe Carpet Sets



Complete deluxe carpet sets containing shaped and contoured front and rear carpets complete with heel pads either side, seat rubbing strips and handbrake gaiter in colour keyed material. Also contains wheel arch carpet and side panels. With Soundproof backing already attached where needed.

- 10. For cars 1959-1973 pre rod change gearbox. Gear lever hole needs cutting.
 - a. Black Order as CK960A
 - b. Red Order as CK960M



- 11. Pre shaped for cars 1973 on with rod change gearbox tunnel.
 - a. Black Order as CK962A
 - b. Red Order as CK962M
 - c. Grey Order as CK962P

Carpet Fixings

- 12. A car set of the original prongs, plates and floor studs to enable fitting the carpets properly Order as CARPET01



Interior trim

1. Mk1/2 Interior trim for Mini (not shown. As kit no. 2 with dash trim)
 - a. Mk1/2 13 piece interior trim kit in black Order as **MSSK1010**
 - b. Mk1/2 13 piece interior trim kit in grey Order as **MSSK1010GREY**
2. Mk3 Interior trim in old classic Mini style (as shown)
 - a. Mk3 Windup window 9 piece trim black kit Order as **MSSK1007**
 - b. Mk3 Windup window 9 piece trim grey kit Order as **MSSK1008**
 - c. Mk3 Windup window 9 piece trim red kit Order as **MSSK1009**



3. Mk3 Windup window 4 piece black, door and rear sides only trim kit, black only Order as **MSSK1011**



4. Rear parcel shelf in black only. Order as **ALE3153**



NOTE: We can also supply all Newton Commercial Trim Products

Dashliners



5. For central speedo type with 2 gauges pod.
 - a. Black painted without air vents Order as **VGA4192**
 - b. Black painted with air vents Order as **VGA4188**
 - c. Black vinyl covered with air vents Order as **ALE2928**
 - d. Black vinyl covered without air vents Order as **ALE2927**
 - e. Central speedo, single clock as per van black painted without air vents. Order as **VGA4187**
6. Lower dash parcel shelf black liner Order as **VGA1995**



Headlinings

Headlinings (ready shaped material only) (Not shown)

7. Headlining kit with rear corners for MK1/2. Order as **5D4085**
8. Headlining kit with rear corners for MK3 1970 on in white. Order as **PAM5401AP**
9. Headlining kit with rear corners for MK3 1970 on in grey. Order as **PAM5401LNG**
- Headlining kit with rear corners for MK3 1970 on in black Order as **PAM5401BLACK**

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Carpets and interior trim

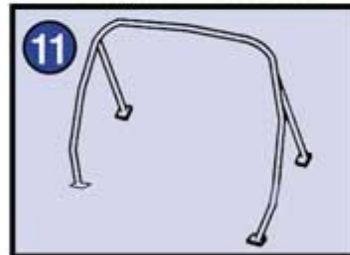


INTERIOR

Roll Cages

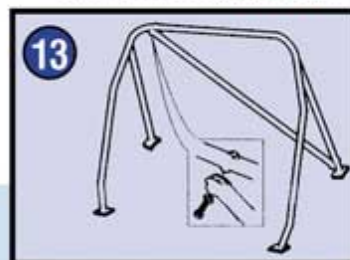
All cages are by the leading manufacturer Safety Devices and are to FIA approved standard, exact where stated.

10. Front Cage. Order as **C-STR237SD**



11. Rear Cage. No Diagonal. NOT FIA approved. . . Order as **C-STR47SD**

12. Rear Cage Fixed Diagonal Order as **C-STR48SD**



13. Rear Cage. Removable Diagonal Order as **C-STR49SD**



14. Door Bar Single with two bolt clamps Order as **C-STR238SD**

Mini Spares Roll Cages utilise two bolt clamps



Fixings & Fasteners



Nut/Bolt Packs

Assorted high tensile setscrews, UNF sizes 3/8" to 3/4". Zinc plated. Order as **1983113**

Description	Qty
3/8" UNF x 1"	30
1/2" UNF x 3/4"	25
1/2" UNF x 1"	20
3/4" UNF x 1 1/2"	15
3/8" UNF x 3/4"	25
3/8" UNF x 1"	15
3/8" UNF x 1 1/2"	10
3/4" UNF x 1"	10

Assorted plain steel nuts, UNF sizes 3/8" to 3/4". Zinc plated. Order as **1983113**

Description	Qty
3/8" UNF	110
1/2" UNF	80
3/8" UNF	70
3/8" UNF	40

Assorted flat washers, sizes 3/8" to 1/2". Zinc plated. Order as **1983113**

Description	Qty
3/8"	200
1/2"	200
3/8"	200
3/8"	100
1/2"	50
1/2"	50

All nuts, bolts and washers are also available separately.

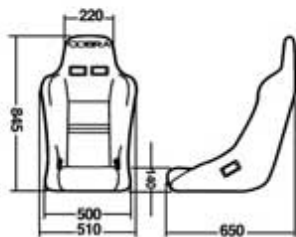
Assorted "P" type nylon insert locknuts, UNF sizes 1/4" to 1/2". Zinc plated. Order as **1983113**

Description	Qty
1/4"	80
3/8"	60
3/8"	40
1/2"	20
1/2"	20

New Clubman Range



CLUBMAN



New Clubman

Fixed Back, Fast Road, Bucket Seat
 Styled by Jordan Bennett, the New Clubman is a massive leap in quality and style, yet still represents a true value for money sports seat. Improvements to the frame and cushioning ensure unparalleled comfort and support.

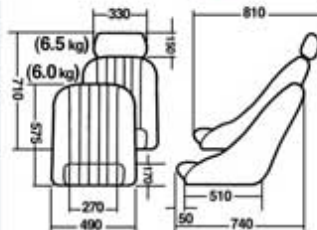
- Tubular steel construction
- Integral headpad and shoulder supports
- Deep sided bucketed support
- Silver coloured harness slots
- Perforated vinyl headpad and side patches
- Integral lumbar support cushion
- Four point harness facility
- Outline embroidered badge in silver on headpad
- Base mounted using Cobra baseframes

- a. Black and Black Cloth with vinyl armrests Order as SEAT03
- b. Black vinyl all over Order as SEAT03V
- c. Blue and Black Cloth with vinyl armrests Order as SEAT03BLUE
- d. Red and Black Cloth with vinyl armrests Order as SEAT03RED
- e. Grey and Black Cloth with vinyl armrests (not shown) Order as SEAT03GREY



Classic Range

Available from stock in black cloth or vinyl - with or without headrest (Red piping shown is to special order)

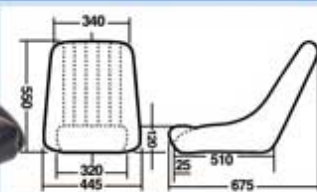


Classic

Fixed back traditional bucket seat
 A low cost, entry level bucket seat, styled and constructed in a traditional manner. Deep sides and a low back ensure good comfort and support without the restrictions of a larger seat.

- Traditional fixed back bucket seat for fast road use
 - Deep sided bucketed support
 - Retro compact styling
 - Tubular steel construction
 - Deep cushioning for comfort
 - Low back for traditional sports and vintage cars
 - Based mounted using Cobra baseframes.
- Head rest is an optional extra.
- a. Classic without headrest - black nylon Order as SEAT01
 - b. Classic without headrest - black vinyl Order as SEAT01V
 - c. Classic without headrest - black vinyl & piping Order as SEAT01VPIPING
 - d. Classic without headrest - red vinyl Order as SEAT01REDV
 - e. Classic without headrest - grey vinyl Order as SEAT01VGREY
 - a. Classic with headrest - black nylon Order as SEAT11
 - b. Classic with headrest - black vinyl Order as SEAT11V
 - c. Classic with headrest - black vinyl & piping Order as SEAT11VPIPING

Cub Range



Cub seat

Special narrow traditional fixed back seat
 Based upon the classic theme, the Cub seat has been specially designed to work where space is at a premium.

- Retro compact styling
- Extra narrow for specialised fittings
- Lower base cushion for height restricted vehicles
- Tubular steel construction
- Low back for traditional sports and vintage cars
- Mounts to Cobra slides or directly to floorpan

- Head rest is an optional extra.
- a. For black nylon covered Order as SEAT02
 - b. For black vinyl covered Order as SEAT02V
 - c. For grey vinyl covered Order as SEAT02VGREY
 3. For black vinyl covered with head rest Order as SEAT04



- Grey Vinyl
- without piping
- Red Vinyl
- with red piping
- Red and Grey Vinyl
- with grey piping

COBRA SEATING RANGE

Black cloth and black vinyl seats are usually held in stock, but other colours and different piping can be specially ordered. All vinyl seats incur an extra surcharge. See Cobra Seats website for colour/trim options. www.cobraseats.com Seat prices do not include subframes or headrests (unless stated).

Lemans Recliner

Reclining sports seat for fast sports use. As a sports recliner, the Le Mans seat gives outstanding lateral support, exceptional lumbar and lower back support, whilst still maintaining the ease of use and adjustability normally associated with a luxury road car seat.

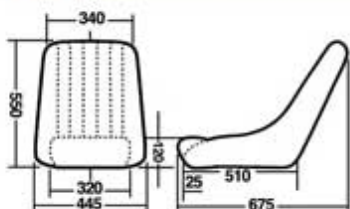
- Height adjustable head restraint
- Defined side cushions for lateral support
- Dual sided recline facility
- Dual sided tilt forward facility for 2 door cars
- Ergonomical design
- Orthopaedic backrest and lumbar support
- Outline embroidered badge in silver
- Base mounted using Cobra baseframes

- 1 a. Lemans seat with head rest in black cloth Order as SEAT05



Available to special order in the black vinyl and other cloth colours.

Speedwell Seats



Classic styled low back seats.

- 2 a. Black nylon bucket seat with Speedwell logo embroidered onto the seat Order as SEAT12
 b. Black vinyl bucket seat with Speedwell logo embroidered onto the seat Order as SEAT13
 Special order available with headrests

Monaco Competition Range



Monaco

FIA Certified and approved for use in motorsport.

- Compact styling
- Lightweight
- Slotted for use with competition harnesses
- Ultra strong construction
- Reinforced shoulder and side pads
- Mounts using Cobra competition seat mounts

Special order available in grey or red

- 3 Monaco competition seat cloth black Order as SEAT14

Special order available in grey or red

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Seat & Seat Belts



Seat Frames

5. a Mini tailored seat subframe Order as SEAT09



6. Mini tailored seat subframe with locking mechanism to fit floor loops as fitted from 1976 and is now considered a legal requirement by some MOT testing stations.

- a. L/H Order as SEAT10LEFT
 b. R/H Order as SEAT10RIGHT



7. 4mm road legal size seat adjuster brackets Order pair as BG5001MS



Seat Belts



8. Automatic seat belts are also available in the following colours, blue, grey and red. Order by adding suffix to part number i.e for blue order individually as MSA1111BLUE

- a. front automatic (inertia) seat belt
 Black Order as individually as MSA1111
 Red Order as individually as MSA1111RED
 Blue Order as individually as MSA1111BLUE
 Grey Order as individually as MSA1111GREY



- b. rear automatic (inertia) seat belt
 Black Order individually as MSA1109
 Red Order individually as MSA1109RED
 Blue Order individually as MSA1109BLUE



10. Static Securon seat belt. In black.
 a. Front static seatbelt Order individually as MSA1112
 b. Rear static seat belt Order individually as MSA1113



11. Black 3 point fixing rally harness. Order individually as MSA1114
 12. Black 4 point fixing rally harness. 2" wide strap (not shown) Order as MSA1110
 13. 4 point fixing rally harness. 3" WIDE STRAP
 a. Red Order as C-SSB1002
 b. Blue Order as C-SSB1000



Specialist Tools



- 1. Easy bleed, one person brake and clutch bleed kit.** Includes container to hold new fluid, interchangeable caps and pipe which connects to a tyre for pressure. With fitting instructions. This kit fits many cars. Ideal for changing fluid throughout the system, it makes life really easy
..... Order as MSA1000
- 2. Klikadjust** is a tool made to simplify the job of adjusting valve clearance. By using the correct size socket on the tool, clearances can be set by turning the clickadjust the amount of turns that correspond to the instructions for the clearance needed Order as MSA1001
- 3. Colortune** is a glass topped spark plug which allows you to see the colour of the combustion in the chamber. Colortune takes the guess work out of the mixture adjustment because different fuel/air mixtures burn with different colours. Kit includes everything you need with instructions and wall chart
..... Order as MSA1002
- 4. Carbalancer** allows both air intakes on twin and twin choke carburetors to be balanced so they flow exactly the same amount of air. This in turn will give you better performance with a smoother engine and better economy.
..... Order as MSA1003
- 5. Brake adjusting and bleed spanner** with longer handle for improved leverage has $\frac{5}{16}$ " AF and $\frac{1}{4}$ " AF closed ends. This will adjust the rear brake shoes on all Minis Order as 660510
- 6. Brake adjusting and bleed spanner** with longer handle for improved leverage has a $\frac{7}{16}$ " AF open end for adjusting front brake shoes where the closed end type will not fit easily, plus a $\frac{1}{4}$ " AF hexagon closed end for the common sized rear bleed screw Order as BLM810
- 7. Windscreen beading tool.** This tool is required for fitting the chrome or black insert in the windscreen rubber or backlight rubber Order as TOOL02



- 8. a. The valve grinding stick** is necessary for grinding in the valves when rebuilding cylinder heads. Order as MSA1004
b. Valve grinding paste (not shown)
..... Order as MSA1005
- 9. Valve spring compressor.** Order as TOOL05
- 10. Tool for fitting & removing the bush from the external hinges** as fitted to MK1/2 and Vans etc. Order as TOOL15
- 11. Tool for removing the pin from external hinges** as fitted to MK1/2 & Vans. This is a correct shape and length centre punch
..... Order as TOOL16

Multi Tool

- 12. 12 in 1 Multi-Tool,** a complete tool kit that fits in your pocket, contains pliers with cutters, screw drivers and many more handy tools Order as TOOL12



Service Tools



- 13. Universal scissor type ball joint splitter** for swivel pins, to lower and upper arm joints, plus track rod ends. The professionals tools ... Order as 660550
- 14. Suspension rubber cone compressor** with two threaded pins, an AF threaded pin for suspension cones made before 1974 and a metric threaded pin for suspension cones after 1976. Take care on early models, where the suspension cone might already have been changed to metric, as it is easy to crossthread the tool. Only the later metric type cone is available from Rover as a spare part Order as 660330
- 15. a. $\frac{1}{2}$ " AF deep socket, $\frac{1}{2}$ " drive** is specially made for changing swivel pin joints on the Mini and will also fit the flywheel bolt. Order as TOOL03
b. 30mm socket for verto type flywheel Order as TOOL13
- 16. $1\frac{15}{16}$ " AF socket, $\frac{1}{2}$ " drive AF socket** for use on the crankshaft bolt and camshaft nut when changing timing cover oilseal or timing gears, steering wheel and disc brake hub nuts. Order as TOOL04
- 17. Two piece primary gear oil seal tool,** (known as clutch seal tool). It includes the sleeve that slides over the primary gear to protect the seal membrane on the gear splines, plus the outer body that pushes the seal home square. This is achieved by using the flywheel bolt in the end and tightening. (Does not remove seal). Order as CE12
- 18. Flywheel puller** that includes bolts for either early AF or metric type late flywheels Order as CE1
- 19. Inboard CV (pot joint) splitting tool** for removing the constant velocity joint from the gearbox by way of driving it between them as a wedge. Does not remove joint from driveshaft Order as 18G1240
- 20. General purpose wedge type splitter** for ball joints. A cheaper alternative to the scissor type 660550 Order as 660490
- 21. $1\frac{1}{2}$ " AF flat spanner tool** for the flywheel bolt to change the clutch.
..... Order as BLM024
- 22. Rear hub puller** for extracting rear hub neatly when changing studs, wheel bearings or oil seal Order as 660260
- 23. Tool for fitting the rear wheel cylinder clip** and early single front cylinder version Order as TOOL14



Suspension Tools

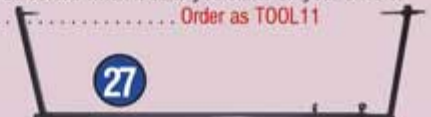
Hydrogas and Hydrostatic Suspensions

- 24. This is the best pump for all hydrogas and hydrostatic suspensions** available at a reasonable price
..... Order as TOOL01
- 25. Hydrostatic fluid** in gallon can
..... Order as MORRIS05



Suspension Geometry & Tracking

- 26. A "must have" for maximising suspension geometry,** especially where suspension components are changed or up-rated. Designed for simplicity and super low cost. Geometry angles measured using a special computer generated scale and plumb line on a base-board. Super accurate. 100% level and or even floor not necessary, and supplied with easy-to-use instructions. Order as TOOL10
- 27. A simple and accurate tool for re-setting the wheel tracking** when any suspension re-builds or up-upgrades are carried out. A completely flat and level floor is not required. The total lack of intricate instrumentation means it never needs "re-calibrating". Used in conjunction with the castor/camber gauge, all suspension geometry can be sorted when it suits you either on your drive or in your garage. Order as TOOL11



Bonnet Stripes



1. Bonnet stripes as fitted to latest Coopers. Available in pairs only (one car set).

- a. Plain White Order as MSA1120
 b. Plain Black Order as MSA1121
 c. Union Jack Order as MSA2221
 d. Black chequered on clear Order as MSA2220
 e. White shadow chequered Order as MSA2219

Roof Decals

2. Roof decals. Union Jack (only red and blue sections supplied) Order as DAF105120
 3. a. Checkered White Squares. Order as DAF105090NMN
 b. Checkered Black Squares. Order as DAF105090PMA



Decal Kits



4. a. Sportspack decal kit less badges
 Side strips, laurels and bonnet stripes in white Order as MSSK2110
 Side strips, laurels and bonnet stripes in black Order as MSSK2111
 b. Sportspack decal kit (white or black) with 2 badges
 White decal kit plus 2 Mini emblem winged badges ... Order as MSSK2112
 Black decal kit plus 2 Mini emblem winged badges ... Order as MSSK2113
 White decal kit plus 2 Cooper emblem winged badges . Order as MSSK2114
 Black decal kit plus 2 Cooper emblem winged badges . Order as MSSK2115

Original Style Stickers

Transfers and Rosettes

5. Cooper Laurel Decal as used on late Coopers. Not original.
 a. White decal Order individually as MSA 1127
 b. Black decal Order individually as MSA 1128



6. a. Safety Fast Rosette external Order as TR205
 b. Safety Fast Rosette for windscreen only. Order as TR206
 c. Special Tuning transfer external Order as TR207
 d. BMC Rosette for windscreen only Order as TR204
 e. BMC Rosette external Order as TR208
 f. Union Jack license holder Order as LH402
 7. ST tuning Abingdon badge green and white external Order as ST153



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Decals, Stickers and Badges



ACCESSORIES

Enamelled Badges

8. a. Resin enamel Union Jack badge to screw on car. Order as MSA2120
 b. Stick on version no lugs Order as MSA2119
 9. Metal enamel Union Jack badge with MINI embossed underneath Order as MSA2122
 10. Union Jack & checkered flag badge stick on Order as BADGE0001
 11. Metal enamel St Georges badge to screw on car Order as MSA2118
 12. Metal enamel St Andrews badge to screw on car Order as MSA2116
 13. British Isles Badge. Stick on Order as DAM100691MS
 14. Mini 40th bonnet badge Order as DAB101600
 15. Stainless Steel stick on GB Badge. Specially shaped to fit boot lid. Order as DAM100690MS
 16. Late type Mini emblem winged badge Order as DAH100590MMM



Manufacturer's Plates & Stickers

Metal chassis, engine and rocker cover plates

- Commission number plates (red)
 COMMISSION No. Order as CP301
 Morris motors chassis plate. Order as CP316
 Austin/Morris chassis plate. Order as CP339
 Engine number plate. Order as CP343
 Austin rocker cover plate. Order as CP348
 Weslake rocker cover plate. Order as CP350
 Morris rocker cover plate. Order as CP364
 Chassis plate Austin Mini all MK1/2. Order as CP379
 Broadspeed Rocker cover/body plate. Order as CP384
 Mini Cooper Rocker cover sticker Order as DAF10397

Original type stick-on labels

- Leyland ST rocker cover label. Order as ST110
 Negative earth label silver/black. Order as ST113
 Negative earth label red. Order as ST115
 Cooper air filter sticker. Order as ST120
 British Leyland (Logo) (32 x 40mm) for Rocker Cover. Order as ST126
 Morris rocker cover sticker. Order as ST135
 Austin rocker cover sticker. Order as ST136
 Weslake patents. Order as ST137
 Healey valve clearance sticker. Order as ST154

Mini Badges



REAR BADGES

Surround Mk 2 for rear badge	ALA6542
Cooper "S" Mk 2 plastic insert	ALA6536
Austin Cooper Mk 2 plastic insert	ALA6538
Morris Cooper Mk 2 plastic insert	ALA6537
"Austin Mini" rear badge	ALA6622
"Mini Minor" rear badge	ADA3730
"Mini" rear badge	24A997
"Seven" rear badge	14A6853
"Wolseley" rear badge	ALG571
"Hornet" rear badge	ALA5013
"Riley" rear badge	ALA6748
"Elf" rear badge	ALA5018
"MK" rear badge	AVB191
"II" rear badge	AVB192
"Austin" rear badge	14A6802
"Cooper" rear badge	24A23
"Morris Cooper" rear badge	24A24

FRONT BADGES

Surround Austin Mini Mk	14A6837
Austin Mk 1 plastic insert	24G1201
Morris Mini Mk 1 badge	ADA3580
Morris Cooper & "S" Mk 1 badge	24A72
Austin Cooper & "S" Mk 1 badge	24A71
Austin Cooper Mk 2 plastic insert	ALA6511
Morris Cooper Mk 2 surround	ALA6518
Austin Cooper Mk 2 plastic insert	ALA6513
Austin Cooper Mk 2 surround	ALA6517
New Mini Cooper in plastic	DAH10036

REAR BADGES

"Automatic" rear badge	24B2639
"850" rear badge	ALA6694
"1000" rear badge	ALA6695
"1275" rear badge	ALA6696
"Speedwell" rear badge	AXE4243
Small "s" badge	24A1401
Large "S" badge	24A1402

FRONT BADGES

Bonnet Surround Cooper "S" Mk 2	ALA6519
Austin Cooper "S" plastic insert	ALA6514
Morris Cooper "S" plastic insert	ALA6515
"Italian Job" bonnet badge	DAB101130
"Mini 35" bonnet badge	DAB101320
"Mini" bonnet badge	DAB10076
"Leyland" square A panel side badge	CZH2717
"Checkmate" flag bonnet badge	DAB10038
Designer Mary Quant bonnet badge	DAB10001
Mini silver on black bonnet badge	CZH4378

Tax Disc Holders

1. Alloy tax disc holders. Available in 3 colours.

Blue	Chrome	Red
MSA0216	MSA0214	MSA0215



2. Minispares Tax Disc Holder

- a. Union Jack Style Order as TAX01
- b. Mini Classic Style Logo Order as TAX02



Mini Spares Stickers



New Mini Spares Stickers

- 3. a. Large. 438x220mm Order as STICKER07
- b. Medium. 295x148mm Order as STICKER06

Union Jack Mini Spares External Stickers

- c. 240x120mm Order as STICKER05
- d. 168x85mm Order as STICKER04
- e. 136x68mm Order as STICKER03
- f. 125x63mm Order as STICKER02
- g. 113x55mm Order as STICKER01



Mini Spares Script Sticker Available with black or clear background for window or external stickers.

Size (mm)	4. Black Background		5. Clear Background	
	Window	External	Window	External
629x93	STICKER11	STICKER15	STICKER18	STICKER27
315x47	STICKER10	STICKER14	STICKER17	STICKER20
210x31	STICKER09	STICKER13	STICKER16	STICKER19
157x23	STICKER08	STICKER12	N/A	N/A

6. Mini Classic Style Logo Sticker.

- Clear, 139x48mm
- Window Order as STICKER
- External Order as STICKER28



Mini Key Fobs

7. Enamelled Metal Keyfobs

- a. 'Mini' Logo Black Order as MSA2124
- b. 'Mini' Logo Blue Order as MSA2127
- c. 'Mini' Logo Red Order as MSA2126
- d. 'Mini' Logo White Order as MSA2125
- e. Union Jack Order as MSA2128
- f. St Andrew's Flag - Scotland Order as MSA2129
- g. St. George's Flag - England Order as MSA2123

8. Latest Mini emblem Order as MSA2130



Mouse Mats

- 9. Computer mouse mat - Monte Carlo Order as HMP141001
- 10. Giant MINI logo Mouse Mat Order as MOUSEMAT001



Jewellery

- | | |
|---|------------------|
| 1 Pin badge/tie pin with one stud, gold plated. | Order as JWL1000 |
| 2 Large Mini badge with 2 studs, gold plated | Order as JWL1001 |
| 3 Mini tie bar, gold plated costume jewellery | Order as JWL1002 |
| 4 Mini cufflinks, gold plated. | Order as JWL1004 |
| 5 Tie bar/Cuff link set, gold plated | Order as JWL1005 |
| 6 Mini money clip, gold plated | Order as JWL1003 |
| 7 Mini key ring, gold plated | Order as JWL1006 |
| 8 Mini key ring, antique pewter | Order as JWL1007 |
| 9 Mini 52cm necklace, gold plated. | Order as JWL1008 |
| 10 Mini earrings, gold plated | Order as JWL1009 |
| 11 Mini necklace, hallmarked silver | Order as JWL1010 |
| 12 Earrings, hallmarked silver | Order as JWL1011 |
| 13 Bookmark, gold plated | Order as JWL1012 |
| 14 Bottle opener, antique pewter | Order as JWL1013 |
| 15 Mini picture/photo frame, antique pewter. | Order as JWL1014 |
| 16 Paper knife, Mini on end, antique pewter | Order as JWL1015 |



- 17 Mini trinket box, antique pewter
Order as JWL1016
- 18 Steering wheel with clock in centre, antique pewter 82mm, 25mm clock.
Order as JWL1017
- 19 Unique cuff links solid hall marked silver hand made in Hatton Garden London
Order as JWL1019

Playstation Games

20. Playstation "Italian Job" Game.
"Faster than Gran Turismo, Crazier than Crazy Taxi!"
Order as TOY19



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Stickers, Videos and Games



ACCESSORIES

T-Shirts



SAINT MINI

Order as TSHIRT05

MINI LOGO

Order as TSHIRT09

Both t-shirts available in three colours. Black, White and Blue.

With sizes S, M, L and XL

Rain Jacket

21. Minispares Jacket, fully lined with hidden hood in the collar, double zip and buttons to protect from the wind Available in sizes S, M, L and XL.

Order as JACKET01



Cloth Badge

22. MINI Logo cloth badge 4" wide

Order as C-STR819



Display Model Kits



Tamiya 1:24 scale model kits

23. Mini Cooper 'S' 1275 1967 Monte Carlo Rally Winner. Order as TOY10
24. Mini Cooper 'S' 1275 Mk 1. Order as TOY09
25. Mini Cooper Racing. Order as TOY08

Radio Control Model Kits



Tamiya remote control 1/10 scale model

26. Racing Mini Cooper.
This self build kit consists of the car with a radio transmitter, battery pack and charger.
Order as TOY07

Books - Restoration

1. Mini DIY Restoration by Lindsay Porter
Pages: 28. Illustrations 800 in black and white
Well written and documented on how to completely renovate your Mini, giving new life to mechanical and electrical components, modifying the car for appearance or performance. Compiled with the assistance of Mini Spares Centre..... **Order as BOOK-07**

2. Practical Classics on Mini Cooper Restoration
Pages: 70. Illustrations: 363 in black and white
Reproduction of articles on a rebuild carried out by Practical Classic Magazine, followed up by articles on purchasing a Cooper. Not the best of print quality, but interesting..... **Order as BOOK-08**



Books - Portfolio Series

3. Mini Gold Portfolio 1959-1969
Pages 176. Illustrations over 200 in black and white. All reproduced articles on road tests, reports, specifications, publicity on every variant..... **Order as BOOK-33**

4. High Performance Minis Gold Portfolio 1960-1973
by Brooklands Books. Pages: 172. Illustrations: 200+ in b&w. Compilation of magazine articles, features and cuttings of road/track tests and performances of Cooper and 'S', standard and performance cars..... **Order as BOOK-24**

5. Mini Cooper Gold Portfolio
by Brooklands Books. Pages: 180. Illustrations: 285 in b&w. Old reprinted articles on road and track tests. Performance data, tuning, history, specials, specifications and purchasing..... **Order as BOOK-12**

6. Mini Gold Portfolio 1969-1980
Pages:172. Illustrations: 200+ in b&w. All reproduced articles on road tests, specification, performance data, special tuning, a lot of articles on Mini Clubman and 1275GT..... **Order as BOOK-34**

7. Mini Gold Portfolio 1981 -1997
Pages:171. Black and white. 300 illustrations. Road and comparison tests, buyers guide, ERA turbo, Monte Carlo. Many other models covered... **Order as BOOK-16**

8. Mini Moke Gold Portfolio 1964 -1994
Pages:178. Black and white. 367 illustrations. Reproduction of original road tests, performance data, restoration, specs, development and history... **Order as BOOK-18**



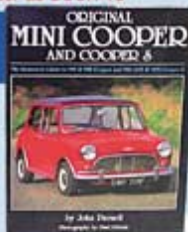
Books - Portfolio Series

9. The Sporting Minis
by John Bridgen. Pages:120. Illustrations: 130 in b&w. Emphasis on the Cooper. Provides detailed production history of the sporting Minis..... **Order as BOOK-13**

10. Essential Mini Cooper
by the Heritage archivist Anders Clausager. Pages:80. 120 pictures (102 in colour). History of cars from 1961-71 and 1990 to date..... **Order as BOOK-37**

11. Original Mini Cooper and Cooper 'S'
by John Parnell. Pages:120. Illustrations: 225 in colour.(the best). The most definitive article available on originality, history and detail of every Cooper and 'S' made. Definitely a collectors masterpiece of near perfection to every detail. Superb book for Cooper owners..... **Order as BOOK-25**

12. Racing your Mini
by Bill Sollis and Dave Pollard. Pages:129. Numerous colour illustrations. Covers building, preparing and racing in Mini Miglia written by a former champion..... **Order as BOOK-15**



'Italian Job' Book

13. The Making of the Italian Job.
Behind the scenes action promotional material etc..... **Order as BOOK-17**



Books - Performance Tuning

14 How to Modify your Mini
by David Vizard Pages: 192. Illustrations 370. The first serious Mini tuning book after Trickeys, (no longer available) which is without doubt the best selling tuning book ever. Covers every aspect of tuning engine, suspension, brakes, wheels and tyres... **Order as BOOK-01**

15 Tuning BL A-Series Engines
by David Vizard Pages: 488. Illustrations 680.
A third addition to his previous books, delving with great depth into simple head mods to full blown power crazy engines, and ancillaries. The definitive book in black and white **Order as BOOK-02**

16 How to Power Tune the 1275cc A Series Engine A new 108-page compilation of facts, articles and pictures in black and white. **Order as BOOK-19**

17 How to Power Tune the 998cc A Series Engine A new 107-page compilation of facts, articles and pictures in black and white. **Order as BOOK-41**

18 How to Power Tune Minis on a small budget 108 pages of standard bolt on parts that can be interchanged for performance... **Order as BOOK-46**



Handbooks & Manuals

19. Original MK3 Cooper 'S' Handbook 68 Pages. **Order as AKD7364**

20. Original MK2 Cooper and 'S' Handbook 56 Pages. **Order as AKD4997**

21. Re-issue of BL Workshop Manual. Covers all vehicles to 1976 - 362 Pages. **Order as AKD4935**

22. Rover Repair Manual For vehicles from 1976 up to carb Coopers 1990 with updates for some later cars including ERA Turbo. **Order as AKM6353**

23. Rover Workshop Manual A later edition of a workshop manual from Rover is also available, but for later vehicles from VIN 049349 including 1990 with 1275 engine up to and including single point injection. **Order as AKM7169ENG**

24. Rover Workshop Manual 1996 on Twin point... **Order as RCL0193ENG**

25. Haynes Weber Carburetors 128 well illustrated pages with everything about the carburettor, including fault finding/repairs... **Order as BOOK-03**

26. Mini Owners Workshop Manual by Haynes Publishing - 1959-69. Pages: 263 of very good illustrated text in black and white. Comprehensive and technical information that can be used as a guide for beginners or experts alike. Covers all MK1/2 variants including automatics plus Cooper and 'S' variants **Order BOOK-09**

27. Mini Owners Workshop & Service Manual by Haynes Publishing. Now covers all Minis from Mk3 1969 to X reg. 2001 cars including all injection cars except ERA Turbo. Over 360 pages of comprehensive technical information, very well illustrated and easy to use for all levels of enthusiast... **Order as BOOK-10**

Videos

28 Mini Power Five of the UK's top modified Minis are brought to your screen with style and passion. Features a great selector of models in beautiful locations, with an original soundtrack. Admire mini beauty & sounds. Duration 55 mins. **Order as T352 (Pal Only)**

29. The Italian Job Michael Caine and Noel Coward star in the Classic film which culminates with wild chases through the pizza's, arcades and rooftops in three Mini's. Duration 98 mins **Order as T363 (Pal Only)**

30. Mini Wizardry on Wheels. A comprehensive collection of Mini archive footage, plus interviews with Alex Issigonis, John Cooper and Sir Graham Day, former Rover Group Chairman. Duration .55 mins BL Heritage video. **Order as T360. (For NTSC order T359)**

31. The Mini Cooper. A Heritage archive video showing Monte Carlo and other rally wins and failures, with the people who made the car famous. Duration 55 mins. **Order as T353. (For NTSC order T354)**

32. Mini Goes Racing Video. All 60's film clips. The golden years of the Mini Cooper and 'S' on the track and Autocross. Duration 60 mins **Order as T356. (For NTSC order T357)**

33. The Mini Video. Archive films from Heritage showing original advertising clips and assembly line build, plus monumental achievements. Duration 75 mins. **Order as T351. (For NTSC order T350)**

34. The Best of British - Mini. NEW History of the Mini, upto the year 2000. Duration 60 mins **Order as T368 (PAL only)**

35. Mini. The latest Video to be produced showing a good selection of Mini variants in preservation as well as fully restored cars, plus of course an array of spare parts and accessories available. Duration 62 mins **Order as T368 (PAL only)**



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1 BASIS FOR SALE

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- 2.1.2 The goods were not specially ordered by Mini Spares Centre Ltd on the customer's behalf.
- 2.1.3 The goods have not been fitted or tampered with.
- 2.1.4 All carriage costs relating to returned products are to be borne by the customer.

3 LIABILITY

- 3.1 Subject to the conditions set out below Mini Spares Centre Ltd warrants that the goods will correspond with our specification or, if there is no such specification then the goods will be within normal limits of industrial quality, at the time of delivery and will be free from defects in material and workmanship for a period of 12 months from the date of delivery of the goods to the buyer.
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- 3.2 Mini Spares Centre Ltd shall be under no liability in respect of any defect in the goods.....
- 3.2.1 Arising from fair wear and tear, neglect, failure to follow Mini Spares Centre Ltd instructions, misuse or improper alteration or repair of the goods, or...
- 3.2.2 If the total price for the goods has not been paid by the due date for payment.
- 3.3 The warranty in 3.1 does not extend to parts, materials or equipment not manufactured by Mini Spares Centre Ltd, in respect of which the buyer shall only be entitled to the benefit of any such warranty or guarantee given by the manufacturer to Mini Spares Centre Ltd, and which we will in so far as possible, assign to the buyer upon the written request of the buyer.
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4 EXEMPTION

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Company Policy



TERMS

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- 4.1.4 Any labour charges incurred by the buyer relating to the removal and refitting of the original goods or replacement goods, or...
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All pictures are for reference only.

Our policy is one of continual improvement. We reserve the right to make alterations without notice.

E&O.E.

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When placing an order with Mini Spares we want to ensure that you are completely satisfied with our service and the parts you receive. To help us maintain this high level of service, please place your order in any of the following ways, we will try and dispatch your order as quickly as possible.

ORDER BY TELEPHONE

Phone your order through to:

Mini Spares Head Office: 01707 607700

Mini Spares North: 01423 881800

MON-FRI 9.00-5.30pm

SAT 9.00-1.00pm

Please have all the information needed at hand including model/ year of car and method of payment.

ORDER BY E-MAIL

E-mail your orders to:

sales@minispares.com

While all e-mails are read on a daily basis it may not be possible to respond daily. Although every order placed, will be dealt with immediately.

ORDER BY FAX

Fax your completed order form through on:

Mini Spares Head Office: 01707656786

Mini Spares North: 01423 881801

Please complete all the form giving us as many details as possible.

ORDER BY POST

Send your completed order form to:

MINI SPARES CENTRE LTD (DEPT: CAT03.1)

Cranborne Industrial Estate, Cranborne Road, Potters Bar, Herts EN6 3JN

ORDER ON-LINE

Visit our extensive web site and order on-line.

www.minispares.com

VISIT OUR STORES IN PERSON

We have three main stores in the UK plus other agents around the world. Please call in and place your order with any of our skilled and knowledgeable staff. Our Main Warehouse holds the largest and most varied stock of Mini parts anywhere in the world!

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114713	6.75	13H4460	22.30	14A7057	2.00	14A9919	7.85	21A1902POLY	7.65
342001	15.70	13H4460MG	24.60	14A7065B	0.37	14A9920	7.85	21A1902ST	3.15
342002	15.70	13H525	0.36	14A7081	1.69	14A9923	13.25	21A2064	0.71
442001	11.06	13H5506	11.96	14A7090A	0.69	14A9924	13.25	21A2064L	0.86
442002	11.06	13H5626	4.30	14A7091	1.69	14A9942	9.78	21A2160	102.67
500929	9.74	13H5627	6.38	14A7167	7.10	14A9949	6.60	21A2183	241.80
508162	1.28	13H5629	4.30	14A7172	12.75	14A9949CHROME	10.40	21A2184	217.05
520161	6.00	13H5630	7.18	14A7176	10.20	14A9988	13.19	21A2185	322.50
552018	20.85	13H5952	6.60	14A7177	10.20	14E3062	86.50	21A2254	14.10
552019	20.95	13H6479	37.25	14A7194	11.06	14E3386	14.25	21A2329	3.75
660260	10.00	13H6480	37.25	14A7240	39.12	14E4289	3.85	21A2331	10.15
660330	24.67	13H743	0.21	14A7241	39.12	14E4290	3.85	21A2454	9.15
660490	6.05	13H7779	33.35	14A7242	30.49	14E4291	3.85	21A2558	18.00
660510	3.59	14A5497	23.11	14A7270	20.90	14G6856	1.70	21A2560	2.82
660550	12.75	14A5498	36.96	14A7271	7.70	17H2646	13.00	21A2612MS	11.20
0722-30	5.53	14A5499	36.96	14A7272	15.30	17H7612	2.00	21A2624	4.43
0722-36	5.20	14A6466	5.05	14A7273	15.30	17H7618	1.99	21A2658	37.34
0722-39	5.20	14A6467	5.00	14A7299	47.65	17H7619	2.85	21A2660	34.50
0722-48	5.60	14A6468	8.50	14A7625	1.70	17H7620	5.08	21A2695	20.85
0722-66	5.60	14A6468CHROME	17.20	14A764	1.25	17H7913	5.80	21A2838	7.43
11G176	6.00	14A6499	18.00	14A7776	10.37	17H7949	0.51	21A291MS	51.50
12A1358	0.37	14A6584	8.42	14A7780	54.86	18G1240	20.95	21A423MS	0.82
12A1358BLUE	0.45	14A6585	0.39	14A7781	50.35	18G8189	22.00	21A425	0.75
12A1358RED	0.45	14A6609	6.69	14A7781RETRO	42.50	18G8938	21.37	21A471	10.64
12A1358YELLOW	0.45	14A6610	6.69	14A7782	6.10	189100	11.00	21A474	10.64
12A1950	7.60	14A6611	6.70	14A7783	6.10	189100MS	6.10	22A1018	7.50
12A1987	4.70	14A6612	6.70	14A8151	2.10	21A1058	24.25	22A1021	47.75
12A367	42.75	14A6615	5.15	14A8306	217.15	21A1060	24.25	22A1139	1.95
12G1015	1.93	14A6616	5.15	14A8307	217.15	21A1091	22.40	22A2204	10.45
12G103	4.05	14A6617	15.99	14A8308	56.60	21A1202	13.19	22A2204MS	9.79
12G1221	11.50	14A6618	15.99	14A8346	18.50	21A1204	13.19	22A608	23.65
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12G3512	17.72	14A6818	18.12	14A8375	7.81	21A1272	8.65	22G202	40.00
12G617	7.23	14A6818K	67.81	14A8455CHROME	16.30	21A1273	8.65	22G2033	9.50
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12G941	3.70	14A6820	18.12	14A8738	12.55	21A1278	0.72	22G420	36.50
12H865	2.55	14A6821	18.12	14A9010	3.50	21A1293	113.35	22G931	10.00
12H889	4.05	14A6829	23.90	14A9534	18.38	21A1294	14.10	23SBLB	28.29
13H1954	0.18	14A6833	2.14	14A9535	18.38	21A1440	7.23	23SPLB	28.29
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13H3471A	8.15	14A6860	11.75	14A9774	24.50	21A1577	24.00	24A1194	4.25
13H4442	72.70	14A6889	23.00	14A9796	0.46	21A1598	10.50	24A1195	4.25
13H4442MG	72.70	14A6901	19.56	14A9838	10.78	21A1794	3.65	24A1196	4.25
13H4444	72.70	14A6902	19.56	14A9871	35.30	21A1882	1.35	24A1197	4.25
13H4444MG	72.70	14A7031	0.59	14A9877	8.25	21A1882MS	1.30	24A1198	3.05
13H4459	35.50	14A7032	0.48	14A9878	8.25	21A1902	4.06	24A1303	14.50

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24A1401	3.57	37H3043	1.25	5L1159	2.50	ABF637	150.00	AK606021	0.55
24A1402	3.57	37H3044	0.77	5L1331	89.43	ACH5854	0.26	AKD4935	22.13
24A1466MS	3.00	37H3833	0.52	5L1334	92.70	ADA3580	21.66	AKD4997	8.00
24A1538	7.65	37H4642	0.55	5L191	96.37	ADA3583	0.27	AKD7364	5.60
24A1918	4.99	37H4836	4.05	5L224	96.37	ADA3730	10.20	AKM2	5.15
24A198	48.50	37H4837	13.75	5L23	0.30	ADA3817	2.05	AKM6353	27.87
24A199	48.50	37H4837WHITE	14.00	5L322	85.00	ADH3809	0.39	AKM6579	3.31
24A199KIT	94.46	37H4838	13.75	5L503	96.37	ADU2072	0.25	AKM7168ENG	5.98
24A2083	12.25	37H4838WHITE	14.00	5L518	96.37	ADU4905	0.52	AKM7169ENG	32.67
24A2158	48.50	37H5520	3.85	5L594	92.44	ADU5728	12.11	ALA4466	0.58
24A2158KIT	94.46	37H6042C	5.00	5L62	1.34	ADU8081	0.18	ALA4583	5.00
24A2159	48.50	37H6100	18.90	5L670	96.37	ADU9102	14.49	ALA5013	8.65
24A2159KIT	94.46	37H6316	0.93	5L672	96.37	AEA311	1.33	ALA5018	7.55
24A2175	0.30	37H6778	1.45	5L691	96.37	AEA536	0.95	ALA5513	78.09
24A2176	0.34	37H6928	3.85	5L692	96.37	AEA536KIT	1.55	ALA5524	13.53
24A2236	26.50	37H6928MS	1.55	5L832	92.44	AEA630	55.00	ALA5525	13.53
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24A24	18.78	37H7201C	5.00	5L888MS	2.70	AEB572-00	16.00	ALA5660	13.38
24A2702	15.55	37H7738	0.93	5L954	92.44	AEB572-10	16.00	ALA5661	13.38
24A2708	10.05	37H7869	107.00	606253A	6.00	AEB572-20	18.80	ALA5828	8.55
24A280	15.00	37H8052	2.55	62-1010	11.96	AEB91306-00	13.26	ALA5829	8.55
24A341	24.30	37H8108	1.60	62-1011	5.53	AEB91306-10	13.26	ALA5897	5.40
24A342	24.30	37H8130	2.05	62-1012	5.53	AEB91306-20	13.26	ALA6508	6.81
24A71	8.15	37H8285	22.49	62-1013	5.53	AEG147	1.00	ALA6509	6.81
24A72	16.50	37H8286	26.78	6K836	4.64	AEG167	1.27	ALA6511	7.50
24A88	6.64	44SBLB	33.34	6K853	0.75	AEG168	0.20	ALA6513	7.50
24A88 ORIGINAL	9.20	44SPLB	33.34	6K853KIT	3.15	AEG309	82.00	ALA6514	7.50
24A997	6.50	47H5355	3.98	7H5182	2.76	AEG323	21.00	ALA6515	7.50
24B2639	5.60	47H5358	5.45	7H5182MS	1.53	AEG323L	22.15	ALA6517	8.50
24G1201	7.05	47H5360	1.48	83H335	4.80	AEG428	29.22	ALA6518	8.00
27H3753	1.72	47H5362	4.00	88G322	1.19	AEG510	68.30	ALA6519	7.65
27H4656	95.00	47H5363	5.45	8B12390	8.95	AEG584	1.60	ALA6536	7.50
27H4657	95.00	47H9615	13.99	8B12396	2.77	AEG592	7.99	ALA6537	7.10
27H4775	44.50	500929GOLD	5.85	8B12397	4.02	AEG593	12.75	ALA6538	8.50
27H4776	44.50	500929MS	6.38	8B12398	7.00	AEG594	12.75	ALA6542	11.25
27H5981A	19.00	505158A	2.57	8B12399	8.65	AEG624	71.68	ALA6559	10.20
27H6943	21.00	518995A	3.59	8B12400	17.78	AEM3314-00	12.47	ALA6622	8.35
27H6944	16.00	51K1473	0.84	8B12401	17.78	AEM3314-10	13.25	ALA6640	1.56
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2A21	2.03	53K1048	0.62	8B12502	52.00	AEM3314-40	20.23	ALA6668BLUE	39.00
2A2226	5.10	53K165	0.51	8B12503	53.00	AEM3427-00	16.11	ALA6668GOLD	39.00
2A2231	5.10	56-1360	52.44	8B12504	45.10	AEM3427-10	16.11	ALA6668RED	39.00
2A3658	0.93	56-1390	32.64	8B12505	45.10	AEM3427-20	16.11	ALA6669	39.00
2A4267MS	2.80	56-1400	34.70	8B12506	53.61	AEM91120-00	17.05	ALA6669BLUE	39.00
2A4328	0.51	56-1630	32.75	8B12507	48.00	AEM91120-10	17.05	ALA6669GOLD	39.00
2A4332	4.85	56-9009	33.00	8B12508	48.00	AEM91120-20	20.09	ALA6669RED	39.00
2A5818MS	0.50	56-9097	30.85	8B12601	10.17	AEM91120-30	24.71	ALA6694	6.65
2A5819	18.50	56-9109	38.50	8B12602	9.35	AEM91886-00	16.96	ALA6695	6.15
2A6215	45.52	56-9121	30.00	8D2490	7.65	AEM91886-10	19.34	ALA6696	6.15
2A9013	10.00	56-9128	30.62	8G8710	8.30	AEM91886-20	19.34	ALA6748	7.45
2A998	16.80	56-9129	33.85	8G8731	8.67	AEW2136	5.20	ALA7455	62.13
2H4905	4.68	56-9132	28.00	8G9270	122.40	AFU3389	6.40	ALA7844	0.49
2H7274	0.35	56-9135	33.00	99-5000	9.00	AFU3389WHITE	6.40	ALA7905	16.85
31G1155	0.43	56-9136	31.00	A200015	5.10	AHH7074	6.10	ALA8430	60.06
33SBLB	28.29	56-9142	32.50	A200016	6.65	AHU1878	43.00	ALA8619	56.60
33SBLBH	28.29	56-9147	34.00	A200017	7.15	AHU2592B	2.01	ALA8623	23.08
33SPLB	28.29	56-9265	36.75	AAA360060	2100.00	AHU2592R	2.01	ALDON R	80.65
33SPLBH	28.29	56-9320	34.70	AAA360200	2276.60	AHU2592W	1.93	ALDON Y	80.65
34SBLB	29.97	56-9327	40.25	AAA360210	2276.59	AJM1139	1.72	ALDONR+	105.00
34SPLB	29.97	56-9330	36.04	AAB360160	1744.68	AJM1140MS	6.50	ALDONY+	105.00
353SPW	39.15	56-9335	26.70	AAC360090	1744.68	AJM1141MS	11.65	ALE1221	3.98
37H2013	45.93	57-0082	36.90	AAU1815	9.25	AJM1250MS	6.38	ALE2927	15.00
37H2014	45.93	57-0189	44.75	AAU1816	9.25	AJM164	16.30	ALE2928	15.00
37H2689	6.50	57H5399	2.25	AAU3296	5.10	AJM202MS	7.02	ALE2960	13.05
37H2690	6.50	5D4085	48.20	AAU4969	38.72	AJM206MS	6.17	ALE3153	17.60
37H2691	4.70	5L1137	2.90	AAU8340MS	16.05	AJM601	0.83	ALG571	8.65

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PART No.	PRICE £	PART No.	PRICE £	PART No.	PRICE £	PART No.	PRICE £	PART No.	PRICE £
AN180V	10.00	BHM7012	3.50	C1503	22.54	C-AEA480	38.00	C-AEG587	9.90
AN181T	14.00	BHM7113	4.50	C1504	22.80	C-AEA524	63.00	C-AEG588	9.90
ARCH001	47.24	BHM7198	28.39	C-19G3256	15.00	C-AEA526	19.15	C-AEG599	162.00
ARP1043	264.00	BKA360110	64.09	C-19G3257	4.00	C-AEA527	23.40	C-AEG601	250.00
ARP2000	32.30	BLM024	5.20	C-19G3258	3.00	C-AEA528	26.00	C-AEG619	102.12
ASB360010	39.90	BLM810	3.59	C206	20.00	C-AEA529	63.92	C-AEG620	109.99
ASJ36002	68.58	BLS529	23.82	C-21A1021	42.13	C-AEA535	31.71	C-AEG636	162.00
ASJ360070	68.58	BLS541	23.53	C-21A1265	26.00	C-AEA538	135.00	C-AGA619	60.00
ASTON	39.10	BLS916	0.60	C-21A1900	58.34	C-AEA538A	135.00	C-AGA620	85.00
ASTON01	46.46	BMB360040	24.53	C-21A1901	58.34	C-AEA539	3.25	C-AHH8537	1.60
ASTON02	63.00	BMB360050	24.53	C-21A1902	59.50	C-AEA540	12.20	C-AHT11	76.05
ASTON03	58.08	BMD36001	131.33	C-21A1903	77.50	C-AEA544	65.00	C-AHT12	125.80
AUC4387	4.11	BMP102	30.82	C-21A1904	60.00	C-AEA648	80.00	C-AHT121	1.99
AUC4587	4.11	BMP124MS	3.65	C-21A1905	2.50	C-AEA654	2.00	C-AHT133	327.66
AUC8103A	7.00	BMP125MS	3.65	C-21A1906	2.50	C-AEA692	21.60	C-AHT135	327.66
AUD3079	2.33	BMP127MS	3.15	C-21A1907	6.39	C-AEA750	395.00	C-AHT136	327.66
AUD3080	2.66	BMP128MS	0.23	C-21A1908	6.39	C-AEG105	9.00	C-AHT146	3.95
AUD4355	4.16	BMP135	0.43	C-21A1963	42.96	C-AEG106	8.30	C-AHT147	4.89
AUD4398	4.10	BMP306MS	180.19	C-21A1964	42.96	C-AEG107	8.30	C-AHT16	23.37
AUD662	212.29	BMP307MS	180.19	C-21A1965	49.81	C-AEG170	1100.00	C-AHT16KEVLAR	15.75
AUD9098A	7.75	BMP339	51.91	C-21A1966	49.50	C-AEG286	162.00	C-AHT188	31.25
AUD9141A	11.50	BMP343	2276.59	C-21A1967	48.50	C-AEG296	162.00	C-AHT195	25.32
AUD9142A	11.50	BMP454	39.27	C-21A1968	42.96	C-AEG310	162.00	C-AHT197	24.17
AUD9451A	11.23	BMP454MS	28.23	C-21A1969	1.90	C-AEG3138	117.00	C-AHT197S	46.00
AUE266	12.50	BMP455	39.27	C-21A1970	1.85	C-AEG329	1100.00	C-AHT198	38.38
AUF214	37.50	BMP455MS	28.23	C-21A1971	58.70	C-AEG365	51.67	C-AHT199	46.91
AUF214EN	55.00	BONNETLOCK	11.00	C-21A1972	63.50	C-AEG365S	124.38	C-AHT223	20.95
AUF214EP	55.00	BOOK-01	12.56	C-21A1974	57.00	C-AEG366	56.86	C-AHT223KEVLAR	16.48
AVB191	2.38	BOOK-02	17.95	C-21A2612	50.00	C-AEG367	37.67	C-AHT230	51.33
AVB192	2.50	BOOK-03	12.97	C-22A1731	15.00	C-AEG368	78.18	C-AHT239	4.20
AXE244K	23.00	BOOK-07	14.99	C-22A1732	69.50	C-AEG369	84.58	C-AHT245	14.38
AXE4243	7.06	BOOK-08	10.95	C-22A1732A	69.50	C-AEG370	62.55	C-AHT246	14.38
AYB10020	0.30	BOOK-09	13.50	C-22A1733	48.15	C-AEG371	69.65	C-AHT247	14.38
AZX1818	16.45	BOOK-10	13.50	C-22A1734	48.15	C-AEG372	45.49	C-AHT248	14.38
B7ES	1.52	BOOK-12	14.50	C-22A1735	48.15	C-AEG373	55.44	C-AHT279	20.00
B8ES	1.60	BOOK-13	12.95	C-22A1736	40.00	C-AEG374	61.84	C-AHT280	43.86
B8EV	4.10	BOOK-15	16.99	C-22A1737	90.00	C-AEG375	24.88	C-AHT281	2.75
B8EVX	4.10	BOOK-16	13.95	C-22A1737A	90.00	C-AEG392	3.50	C-AHT287	7.00
B9EV	4.10	BOOK-17	15.99	C-22A1741	12.34	C-AEG399	13.62	C-AHT288	3.00
BADGE0001	8.74	BOOK-18	13.95	C-22A1750	37.24	C-AEG410	22.12	C-AHT289	105.90
BARREL SET	10.66	BOOK-19	14.21	C-22A1751	30.38	C-AEG411	22.12	C-AHT3	20.14
BAU2111	8.45	BOOK-24	12.95	C-22G1047	100.00	C-AEG412	22.12	C-AHT32	23.87
BAU5345	39.06	BOOK-25	16.25	C-22G1048	69.50	C-AEG413	22.12	C-AHT343	218.20
BAU5346	27.90	BOOK-33	13.95	C-22G1049	49.00	C-AEG414	22.10	C-AHT364	31.50
BDR125	3.90	BOOK-34	13.95	C-22G1049SPRITE	49.00	C-AEG420	93.10	C-AHT376	10.75
BELTBELT	12.00	BOOK-37	9.95	C-22G1050	49.00	C-AEG421	90.00	C-AHT377	10.75
BELTSEAL1	1.28	BOOK-41	14.21	C-22G1050SPRITE	49.00	C-AEG422	94.00	C-AHT381	2.00
BELTSEAL2	1.69	BOOK-46	19.78	C-22G673	13.62	C-AEG423	118.86	C-AHT4	17.99
BELTSEAL3	1.10	BP5ES	1.88	C247	4.32	C-AEG454	41.16	C-AHT400	145.00
BG2400	12.00	BP6ES	1.88	C-27H7766	117.50	C-AEG455	41.16	C-AHT401LEFT	14.85
BG2401	12.00	BP6EV	4.10	C-27H7767	117.50	C-AEG476	750.00	C-AHT401RIGHT	14.85
BG2405MS	38.00	BP7ES	2.00	C-27H7768	125.00	C-AEG478	750.00	C-AHT403LEFT	27.00
BG2406	12.78	BP8ES	2.00	C-27H7779	13.19	C-AEG479	750.00	C-AHT403RIGHT	27.00
BG2602	3.30	BP9ES	2.00	C3101H	38.90	C-AEG481	25.05	C-AHT405	131.90
BG2702	3.30	BPR6ES	2.00	C8E	2.87	C-AEG482	25.71	C-AHT408LEFT	27.00
BG5001MS	3.10	BPR6EVG	3.50	C-8G8993	52.10	C-AEG483	45.01	C-AHT408RIGHT	27.00
BG5101MS	2.50	BPR7ES	2.00	C-8G8994	36.63	C-AEG488	37.50	C-AHT435	9.04
BG5401	10.00	BS258	4.71	C-8G8994KEVLAR	23.83	C-AEG489	40.00	C-AHT436	106.33
BG8110	9.92	BSP001	6.50	C-8G8995	25.95	C-AEG490	85.29	C-AHT446	145.00
BG8111	13.40	BSP002	8.80	C-8G8995KEVLAR	20.43	C-AEG491	88.13	C-AHT446A	147.45
BG8114	10.08	BSP003	8.80	C9E	3.00	C-AEG497	750.00	C-AHT447LEFT	14.85
BG8118	14.95	BTA1208	0.69	CA39	1.00	C-AEG519	5.57	C-AHT447RIGHT	14.85
BG8119	12.00	BTA1209	0.69	CA90	5.50	C-AEG543	9.13	C-AHT507	186.93
BHA4153	13.00	BTA193	36.55	C-AEA3240	16.17	C-AEG544	8.30	C-AHT508	186.93
BHA4154	4.50	BTA249	3.81	C-AEA476	51.60	C-AEG569	10.00	C-AHT54	22.50
BHA4661	8.50	CO155	32.77	C-AEA477	51.60	C-AEG570	10.00	C-AHT55	8.30
BHM3	12.96	C1501	22.54	C-AEA478	51.60	C-AEG579	15.74	C-AHT596	37.58
BHM4	12.96	C1502	22.54	C-AEA479	35.00	C-AEG580	34.03	C-AHT597	78.75

PART No.	PRICE £	PART No.	PRICE £	PART No.	PRICE £	PART No.	PRICE £	PART No.	PRICE £
C-AHT598	96.00	C-AJJ4008	111.49	CARPETO1	2.62	CHM373	6.50	C-STN20BUDGET	489.36
C-AHT624	72.99	C-AJJ4009	90.51	CARPETO2	22.98	CHM85	57.80	C-STN21	536.00
C-AHT625	78.99	C-AJJ4013	20.00	CARPETO3	29.79	CJE10021	2.83	C-STN21BUDGET	488.00
C-AHT626	75.99	C-AJJ4014	336.26	CARPETO5	29.79	CK22	165.11	C-STN22	134.00
C-AHT627	98.49	C-AJJ4018	18.56	CARPETO6	29.79	CK23	177.67	C-STN231	30.50
C-AHT770	31.00	C-AJJ4019	10.50	CARPET11	19.00	CK24	177.67	C-STN233	30.50
C-AHT770A	31.00	C-AJJ4021	25.00	CARPET12	19.00	CK25	50.00	C-STN236	30.50
C-AHT771	35.50	C-AJJ4022	247.52	CARPET13	19.00	CK26	173.55	C-STN237	30.50
C-AHT772	67.29	C-AJJ4023	251.91	CAT10044	16.30	CK27	173.55	C-STN39	250.00
C-AHT773	68.00	C-AJJ4023BLUE	255.91	CAT100870	16.30	CK902	16.00	C-STN71	75.00
C-AHT774	68.00	C-AJJ4023GOLD	255.91	C-AUD178	425.00	CK960A	87.10	C-STN76	336.26
C-AHT775	79.80	C-AJJ4023PURPLE	255.91	C-AUD640	212.29	CK960M	84.56	C-STN77	336.26
C-AHT776	81.12	C-AJJ4024	28.00	C-AUD641	250.00	CK962A	87.10	C-STN96	48.50
C-AHT776A	81.03	C-AJJ4025	7.62	C-BELT210	5.62	CK962M	87.10	C-STR1057	66.00
C-AHT777	79.80	C-AJJ4025B	8.55	C-BELT225	5.62	CK962P	87.10	C-STR1058	205.25
C-AHT778	88.84	C-AJJ4025COMP	10.51	C-BELT255	6.20	CKE10018	8.00	C-STR122	86.80
C-AHT779	90.27	C-AJJ4026	22.72	C-BELT270	5.50	CMS10	6.38	C-STR123	86.80
C-AHT780	91.69	C-AJJ4027	29.48	C-BTA1001	174.47	CMS13	6.38	C-STR124	86.80
C-AHT85	5.11	C-AJJ4027B	29.48	C-BTA1002	174.47	CMZ312	0.14	C-STR1675	40.20
C-AHT88	353.19	C-AJJ4028	468.08	C-BTA1003	174.47	CN1	0.75	C-STR1675SPORT	50.69
C-AHT9	10.99	C-AJJ4028A	538.00	C-BTA1004	175.00	CN2	0.85	C-STR1717	40.20
C-AHT94	1.99	C-AJJ4028B	488.50	C-BTA1005	175.00	CN3	1.20	C-STR1717SPORT	50.69
C-AHT97	1.86	C-AJJ4029	247.52	C-BTA1006	175.00	CN4	1.41	C-STR1794	40.20
C-AJJ1570	54.89	C-AJJ4029A	430.00	C-BTA1007	175.00	CN5	1.41	C-STR1794SPORT	50.69
C-AJJ1571	55.74	C-AJJ4030	11.49	C-BTA1226	404.25	CN5BLUE	1.55	C-STR1795	40.20
C-AJJ1572	5.95	C-AJJ4031	12.50	C-BTA1226A	404.25	CN5RED	1.55	C-STR1795SPORT	50.69
C-AJJ3313	18.72	C-AJJ4031B	15.91	C-BTA1243	1.65	COL25	7.36	C-STR230	38.07
C-AJJ3316	36.17	C-AJJ4032	82.55	C-BTA1246	161.70	CP301	3.00	C-STR237R	68.08
C-AJJ3319	276.60	C-AJJ4032A	82.55	C-BTA1248	161.70	CP316	3.00	C-STR237SD	107.19
C-AJJ3320	67.50	C-AJJ4037	18.99	C-BTA1249	161.70	CP339	3.66	C-STR238	20.00
C-AJJ3320EXT	37.00	C-AJJ4064	1420.43	C-BTA1250	161.70	CP343	1.20	C-STR238R	16.38
C-AJJ3321	49.00	C-AJJ4083	440.00	C-BTA1251	153.62	CP348	2.18	C-STR238SD	27.62
C-AJJ3323	20.00	C-AJP337	4.25	C-BTA1252	161.70	CP350	2.18	C-STR239	5.00
C-AJJ3324	25.68	CAM150	2.38	C-BTA1253	161.70	CP364	2.35	C-STR240	38.07
C-AJJ3325	40.00	CAM151	1.95	C-BTA1262	62.82	CP379	3.30	C-STR250	38.07
C-AJJ3326RACE	133.35	CAM289	7.50	C-BTA1263	55.32	CP384	3.00	C-STR285	4.00
C-AJJ3327	53.00	CAM5969	0.65	C-BTA1264	171.00	CRB10184NAL	40.39	C-STR286	16.00
C-AJJ3328RACE	137.00	CAM6117	9.59	C-BTA1265	170.00	CRB10184NNX	40.39	C-STR287	28.00
C-AJJ3329	96.00	CAM6239	38.52	C-BTA1266	155.00	CRB10185NAL	40.39	C-STR291	50.00
C-AJJ3359	18.68	CAM6263	1.00	C-BTA1267	120.00	CRB10185NNX	40.39	C-STR292	49.50
C-AJJ3361	6.30	CAM6408	34.41	C-BTA1268	120.00	CRC5329	0.25	C-STR294	88.80
C-AJJ3363	61.70	CAM6822	43.50	C-BTA1270	1350.00	C-RIM106	16.49	C-STR30	42.15
C-AJJ3364	42.98	CAML01	32.74	C-BTA164	22.08	C-RIM107	16.49	C-STR303	38.75
C-AJJ3364A	46.00	CAML02	10.25	C-BTA166	13.00	C-RIM544	16.49	C-STR304	33.00
C-AJJ3364B	46.00	CAML03	33.74	C-BTA167	42.80	C-RIM55	16.49	C-STR305	33.00
C-AJJ3365	50.04	C-ARA331	68.23	CCB10011MS	16.17	C-RIM569	16.49	C-STR306	33.00
C-AJJ3367	4.00	C-ARA332	68.23	CCB100130	66.00	C-RIM570	16.49	C-STR307	33.00
C-AJJ3368	3.40	C-ARA333	73.92	CCC101	75.00	CRK101	48.73	C-STR308	34.00
C-AJJ3369	29.99	C-ARA334	103.06	CCC103	46.00	CRK104	28.00	C-STR30A	42.15
C-AJJ3371	238.30	C-ARA335	103.06	CCC110	34.84	CRK121	37.91	C-STR30T	122.00
C-AJJ3378-20	47.87	C-ARA336	78.18	CCC111	34.84	CRK219	35.77	C-STR30TA	122.00
C-AJJ3378-40	47.87	C-ARA337	76.76	CCC112	34.84	CRK227	42.76	C-STR310	47.87
C-AJJ3378-60	47.87	C-ARA338	76.76	CCC113	34.84	CRK254	55.10	C-STR312	47.87
C-AJJ3379-20	48.50	C-ARA339	90.97	CCC115	22.57	CS815	16.99	C-STR317	44.50
C-AJJ3379-40	48.50	C-ARA340	106.40	CCN122	1.16	CS818	17.01	C-STR332	125.09
C-AJJ3379-60	48.50	C-ARA341	161.70	CDU3374	3.58	CSK65	24.67	C-STR336	130.07
C-AJJ3381	10.45	C-ARA4400	79.80	CDU3374W	1.83	CSK74	28.63	C-STR340	125.09
C-AJJ3382-20	47.87	C-ARA4441	185.00	CE1	12.60	CSK75	20.20	C-STR47SD	80.81
C-AJJ3382-40	47.87	C-ARA4442	58.00	CE12	16.95	C-SRP100	227.79	C-STR48SD	131.87
C-AJJ3382-60	47.87	C-ARA4442B	65.80	CGA2835MS	9.50	C-SRP200	239.75	C-STR49SD	153.15
C-AJJ3385	127.65	C-ARA4443	67.50	C-GBD496	60.00	C-SRP250	240.01	C-STR627	3.50
C-AJJ3387	395.00	C-ARA4444	53.62	C-GRH002	60.00	C-SSB1000	72.33	C-STR630	4.00
C-AJJ3387A	395.00	C-ARA4445	12.00	C-GRH1006	12.97	C-SSB1002	74.51	C-STR630RACE	4.00
C-AJJ3387B	395.00	C-ARA664	18.38	C-GRH240	22.05	C-STN17	142.29	C-STR631	10.21
C-AJJ4004	90.51	C-ARA667	78.00	C-GRH247	14.08	C-STN18	142.29	C-STR632	10.21
C-AJJ4005	15.00	C-ARA668	89.00	CHM108	3.09	C-STN18A	142.29	C-STR638	7.00
C-AJJ4006	123.40	C-ARA669	60.37	CHM13	5.20	C-STN19	621.28	C-STR639	6.00
C-AJJ4007	14.00	C-ARH221	29.78	CHM13WHITE	5.50	C-STN20	538.00	C-STR640	16.00

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C-STR641	15.00	DASH002	100.80	FAM6292	102.67	GB4991	36.22	GCV1102	30.00
C-STR642	13.50	DASH003	93.82	FAM7306	42.98	GB4992	42.00	GCV1105	26.60
C-STR643	16.00	DASH004	93.82	FAM7306MS	21.10	GB4999	52.00	GD910161	0.22
C-STR687	40.72	DASH005	93.82	FAM7307	42.98	GB5000	43.00	GDB105	10.50
C-STR809	22.98	DASH006	93.82	FD2P	12.76	GB5001	29.67	GDB106	14.89
C-STR811	43.35	DASH007	93.82	FELT	8.02	GB5002	38.14	GDC102	7.50
C-STR811S	71.36	DASH008	93.82	FELT01	17.86	GB5007	46.90	GDC103	4.50
C-STR816	51.64	DASH009	102.00	FELT860	5.32	GB5008	34.41	GDC136	3.87
C-STR816S	128.65	DASH010	102.00	FIC578	5.16	GB5014	42.57	GDC143	8.32
C-STR817	65.39	DASH0100BLUE	20.43	FIC651	8.61	GB5021	51.14	GDC150	15.50
C-STR819	1.70	DASH0100GREEN	20.43	FJN10003	1.50	GBC138	61.27	GDC156	8.15
C-STR931	750.00	DASH0100MAG	20.43	FP26	21.00	GBC141	61.27	GDC214	6.05
C-STR932	750.00	DASH0100RED	20.43	FP26BLUE	23.82	GBC2030	90.25	GDG202	3.95
C-STR933	750.00	DASH0100SILVER	20.43	FP26RED	23.82	GBC2031	90.25	GDG233	4.50
C-STR986	35.00	DASH0100WHITE	20.43	FP27	3.50	GBD101	22.00	GDG234	4.50
C-STR987	46.47	DASH0100YELLOW	20.43	FP28	24.36	GBD101MS	18.90	GEG300	10.05
CW1	10.71	DASH011	102.00	FP29	35.20	GBD496	14.55	GEU6603	29.54
CW15	12.14	DASH012	102.00	FP30	29.61	GBD90806MS	9.00	GEU930	70.21
CW16	14.41	DASH015	111.70	FP32	36.08	GBH170KIT	15.00	GEX7081	1.75
C-WIN0001	101.00	DASH017	111.70	FPA901	3.85	GBH249	5.95	GEX7081POLY	4.26
C-WIN0002	139.91	DASH018	111.70	FPA902	3.99	GBH249KIT	15.00	GEX7251	1.05
CWP2-76	150.00	DASH019	114.89	FPA903	1.13	GBH250	4.00	GEX7761	0.66
CWP3-4	105.00	DBE10006PMD	1.91	FPA903A	0.90	GBK1010	2.50	GEX7779	1.04
CWP3-6	75.00	DBP7104	2.40	FPA904	1.50	GBK1025	4.51	GFE1008	4.59
CZA7109	1.95	DCP8004	1.85	FPA905	4.95	GBK1026	3.50	GFE103	3.25
CZG778	0.20	DFJ100240LML	30.30	FPA906	3.95	GBK1733	3.40	GFE1038	4.51
CZH1666	12.77	DFJ100250LML	30.30	FPR004	21.38	GBK1834	3.06	GFE104	4.39
CZH1667	12.77	DFK100460LML	30.30	FPR005	22.50	GBP102AF	15.43	GFE1096	3.47
CZH1719MS	8.94	DFK100470LML	30.30	FPR012	33.00	GBP103AF	16.78	GFE1113	5.00
CZH1747	0.92	DHB10150MMM	35.75	FR200	49.00	GBP103KEVLAR	10.17	GFE1143	6.77
CZH1785	29.00	DHF100060	10.91	FS006L	52.00	GBP103MS	9.15	GFE166	1.95
CZH202	16.56	DLB105	13.19	FS006R	52.00	GBP258AF	10.00	GFE21	3.90
CZH203	16.56	DLB110	20.00	FSE10020	7.00	GBP258KEVLAR	10.17	GFE26	8.69
CZH212	16.56	DLB111	25.00	FSP3	20.00	GBP281KEVLAR	10.17	GFE280	4.44
CZH2669	101.64	DP1	5.55	FSP4	26.50	GBP281MS	8.09	GFE6003	6.29
CZH2717	4.75	DP2	8.87	FVL100100	27.50	GBS102MS	8.25	GFK2256	0.03
CZH3247	1744.68	DPB10165MS	17.86	FX108047	0.68	GBS733AF	10.38	GFK3210	0.03
CZH3293	113.56	DPB10166	32.77	FZX1435	219.06	GBS834AF	8.75	GFK3431	0.24
CZH3300	38.00	DTC100610RJS	22.10	FZX3003	101.00	GCB10725	4.27	GFK5184	0.10
CZH3301	38.00	DTC100680MNH	5.72	FZX3004	175.00	GCB10813	3.20	GFU2103	5.24
CZH3353MS	9.99	DTC100690MNH	5.72	FZX3006	160.00	GCB10838	1.79	GFU2208	10.69
CZH3521	6.50	DUCKHAMS	7.00	FZX3013	101.76	GCB10863	4.27	GFU2218	4.63
CZH4015MS	25.30	E2360	27.44	FZX3052	300.00	GCB10900	4.25	GFU2507	4.07
CZH4048	29.74	E2601	20.92	FZX3054	300.00	GCC103	15.20	GGE101	11.64
CZH4143	9.55	E9001	21.93	G2034	76.59	GCC679	58.00	GGE102	11.35
CZH4278	13.89	E9172	25.91	G2035LEFT	73.99	GCD101	5.99	GGE157	10.93
CZH4378	12.11	EAC5541A	1.27	G2035RIGHT	73.99	GCG1001	140.43	GGE161	12.46
CZH455	62.13	EAH104380	11.49	G2040LEFT	76.59	GCG1007METRO	140.43	GGE164	14.67
CZH798	15.00	EAM7724	6.50	G2040RIGHT	76.59	GCG1007MS	154.00	GGE165	14.31
CZH886	14.00	EAM8530	6.50	G281	2.30	GCG1009METRO	154.00	GHF400	0.05
CZH887	14.00	EAM8531	6.50	G282	5.60	GCG1009MS	154.00	GHK1140	17.58
DAB10001	10.50	EBF100150	30.36	G283	4.20	GCK100AF	27.50	GHT101	14.00
DAB10038	9.55	EBN100010	29.80	GAC181	0.98	GCK100MS	25.50	GHT241BLACK	10.00
DAB10076	23.83	EBN100040	29.80	GAE191	5.89	GCK151AF	64.50	GHT289	21.10
DAB101130	17.82	EJU10003	9.36	GAL118	8.50	GCK151MS	54.95	GLB343	1.28
DAB101320	13.10	ENG001	556.75	GAM105	11.28	GCK152MS	67.66	GLB344	2.29
DAB101600	44.37	ENJO-1039	0.70	GAM105C	13.45	GCL143	15.00	GLB472X	4.21
DAF10397	3.34	ENJO-1040	1.47	GAM106	11.02	GCL204	61.32	GLB501A	0.80
DAH10036	8.47	ERA1190	16.13	GAM106C	11.25	GCL216	11.96	GLP110MS	25.95
DAH100590MMM	8.47	ET3	26.00	GAM107	18.09	GCL217	14.24	GLZ119A	11.64
DAM100690MS	8.47	EVOLUTION001	38.00	GAM107C	20.01	GCP204AF	13.05	GMC171ORIGINAL	38.72
DAM100691MS	5.11	EYC10048	0.26	GAM108	18.09	GCP271AF	27.19	GMC172	41.00
DAM3187	13.50	FAM2390	51.02	GAM108C	20.01	GCP90832AF	39.10	GMS114	16.16
DAM5353	33.80	FAM2391	51.02	GAM215A	13.30	GCS119	3.36	GMS115	8.49
DAM5355	15.50	FAM2406	1.85	GAM216A	13.30	GCS2101	2.10	GMS116	11.21
DAM7335	7.50	FAM2764	4.50	GAM217A	14.00	GCS2118	2.31	GMS126	17.23
DAM8889	12.00	FAM2764MS	3.50	GAM218A	14.00	GCS3001	8.79	GPR104	0.55
DASH001	114.89	FAM3968	24.64	GAW117	16.00	GCV1013	25.27	GPR104BLUE	0.85

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GPR104RED	0.85	GSV1264	18.54	HMP441004	50.82	KKF101320	3.15	MOC3	5.50
GPR104YELLOW	0.85	GSY110	17.50	HMP441005	50.83	KLM1416	28.40	MOCOT1	15.66
GPR105	0.62	GSY110MS	13.00	HMP441006	16.17	L362120	6.00	MOCOT2	12.33
GPR107	0.65	GSY118	21.46	HMP441007	16.17	LA1009	13.00	MONTE2	24.92
GPR107BLACK	1.02	GTG101MS	0.28	HMP441008	32.34	LDP1	23.45	MONTE4	49.84
GPR107BLUE	1.02	GTR101	4.00	HMP441009	47.03	LH402	1.10	MONZA	39.66
GPR107RED	1.02	GTR102	9.10	HMP441010	21.71	LH427	1.10	MONZA01	42.96
GPR107YELLOW	1.02	GTR104	3.50	HMP441011	21.71	LHF100130	97.39	MONZA02	59.85
GPS133	3.90	GTR206	9.10	HMP441012	37.42	LM052	95.95	MONZA03	57.00
GPS135	5.38	GTR307	17.01	HMP441013	37.42	LM053	100.93	MORRIS05	13.25
GRA2101	1.52	GTS102	2.59	HMP441014	39.74	LMA001	3.50	MOUSEMAT001	3.82
GRA2114	1.50	GTS104	2.59	HMP441015	39.74	LMA017	2.52	MPK1	15.00
GRA2123	2.14	GTS106	2.59	HMP441016	90.08	LMA048	3.27	MS026L	10.00
GRA2130	7.09	GTX	13.98	HMP441019	53.34	LMA049	2.63	MS026R	10.00
GRA2143	3.65	GUG5038VC	2.00	HMP441022	103.02	LMA782	13.50	MS100	5.74
GRB201	5.00	GUG702506HG	4.35	HPS1	5.87	LOCKNUT1	15.65	MS104	90.00
GRB239	4.47	GUG702560HG	8.60	HPS3	18.00	LOCKNUT2	15.65	MS106	22.99
GRD974	68.07	GUG704053MG	2.80	HPS4	12.99	LOCKNUT3	15.65	MS106C	26.00
GRG205	7.10	GUG704063MG	6.03	HPS4BLACK	12.99	LOCKNUT5	15.65	MS109	102.30
GRH1006	1.99	GUG705009VC	1.00	HPS4BLUE	12.99	LOCKNUT6	15.65	MS110	26.05
GRH1006KEVLAR	3.50	GUG705711GM	0.86	HPS4RED	12.99	LP403	41.18	MS111	26.04
GRH240	4.25	GUL1005B	27.62	HPS5	22.47	LU142	51.10	MS112	50.65
GRH240KEVLAR	6.38	GUL2005B	17.58	HPS6	15.54	LU143	51.10	MS113	50.65
GRH247	2.77	GUL7005T	7.22	HPS8	8.50	LU144	51.10	MS114	28.94
GRH247KEVLAR	4.25	GVS104	8.65	HV22	11.56	LZX1111A	24.34	MS114A	28.94
GRH468	4.99	GWB219	4.74	JACKET01	35.00	LZX1511	9.50	MS115	33.55
GRH468KEVLAR	6.38	GWB220	4.81	JFC101620PMA	17.08	LZX2085	8.50	MS117	5.00
GRH469	3.19	GWC1101	11.90	JFD10039	0.49	M16007	10.13	MS118	5.11
GRH469KEVLAR	4.25	GWC1101MS	7.95	JFF10003	18.74	M16008	10.16	MS119	2.60
GRH802	3.94	GWC1102	8.99	JFF10051	20.87	M16009	10.50	MS121	6.07
GRK4001	2.92	GWC1102MS	7.95	JFF100910	20.87	M34M3P	28.36	MS122	4.71
GRK4008	3.18	GWC126	8.50	JJB10011	13.50	M50201	9.99	MS1246	44.50
GRK5003	7.00	GWC126MS	5.91	JJB100260	13.50	M50211	8.30	MS1247	44.50
GRK5006	4.38	GWC127	8.50	JPC2017	0.55	M68990E	13.50	MS1248	45.00
GRK5008	3.78	GWC127MS	5.91	JPC8387PA	3.25	M68991E	13.50	MS1249	45.00
GRK5009	3.75	GWP132	16.50	JPC9848	24.93	M90997	2.13	MS126	27.00
GS1007	1.28	GWP134	13.91	JPC9849	24.47	M90999	2.13	MS128	38.20
GS130273	17.50	GWP187	13.91	JRC2673	11.00	M91000	1.40	MS128W	40.61
GSA71541	11.89	GWP188	26.97	JRC2674	8.50	MAG230	2.57	MS129	112.87
GSA71542	11.89	GWW102	11.90	JRC2844	13.00	MD286SPM	95.25	MS130	136.50
GSA971388	11.84	GWW1080	2.10	JRC7008	19.66	MDM256	52.00	MS131	75.20
GSA971389	11.84	GWW1116	25.18	JRC7898	5.23	MDM266	52.00	MS132	58.00
GSC2109	2.85	GWW1192	26.08	JRC8000	8.29	MDM274	52.00	MS133	75.00
GSC2111	1.94	GWW125	13.52	JWL1000	4.20	MDM276	52.00	MS133MS	75.00
GSC2113	3.09	GWW801	2.97	JWL1001	8.00	MDM286	52.00	MS134	37.00
GSD101MS	5.11	GWW810	2.50	JWL1002	9.00	MDM296	57.15	MS136	67.41
GSD102	6.00	GWW906	9.17	JWL1003	9.00	MFA132	4.16	MS14	6.66
GSD275	8.25	GWW907	6.94	JWL1004	17.00	MFA338	4.50	MS15	1.95
GSD415	7.50	GWW918	6.75	JWL1005	24.50	MFA446	5.10	MS19	36.10
GSD487	9.10	GWW935	9.01	JWL1006	6.00	MLW1116-13	85.06	MS1L	20.38
GSD488	15.41	GWW940	28.25	JWL1007	6.00	MLW111725M	32.30	MS1R	21.80
GSJ1106	6.40	GXE7708	39.99	JWL1008	8.00	MLW111745M	31.00	MS22	7.80
GSJ166	13.36	GZF105A	6.75	JWL1009	11.00	MLW1117BIHM	31.00	MS24L	6.65
GSJ166MS	5.96	GZF105MS	3.75	JWL1010	25.00	MLW1117BIM	40.00	MS24R	6.65
GSJ734MS	4.00	GZF107A	4.95	JWL1011	35.00	MLW1118-13	82.00	MS25	148.94
GSM119	152.00	GZF107MS	2.85	JWL1012	6.00	MOC1	3.36	MS25L	7.00
GSM120	84.95	HAM1200	90.90	JWL1013	6.00	MOC100102	15.99	MS25R	7.00
GSS212A	6.74	HAM2174	79.20	JWL1014	14.50	MOC1013	12.77	MS26L	9.36
GSS215	8.25	HAM2457	6.30	JWL1015	20.00	MOC1014	15.22	MS26R	9.36
GSV1004	8.00	HILO	41.00	JWL1016	18.00	MOC1015	13.18	MS27L	5.06
GSV1053	17.03	HILO-01	12.00	JWL1017	21.69	MOC1016	22.83	MS27R	5.06
GSV1056	9.22	HILO-03	2.00	JWL1019	30.00	MOC1017	23.00	MS29L	7.35
GSV1095	2.56	HMP141001	7.35	KCLUBE	3.50	MOC1018	35.75	MS29R	7.35
GSV1118	7.92	HMP190151	5.87	KCLUBE1	2.00	MOC10ROW	33.26	MS31	10.27
GSV1118MS	2.70	HMP241001	826.99	KGB10022	311.96	MOC16ROW	47.09	MS389	2.13
GSV1125	8.04	HMP241002	642.20	KGB10027	185.52	MOC2	2.43	MS43	12.75
GSV1127	2.58	HMP241003	826.99	KGB100500	174.32	MOC207	2.60	MS44	12.75
GSV1186	9.20	HMP441001	67.63	KHB10024MS	177.66	MOC208	2.55	MS45D	76.00

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MS45H	92.00	MSA1120	8.50	MSSK	14.46	MSSK2004	52.50	PAM5401AP	45.68
MS45LATE	78.00	MSA1121	8.50	MSSK001	14.46	MSSK2005	45.00	PAM5401BLACK	45.68
MS54	14.00	MSA1122	8.50	MSSK002	10.50	MSSK2100	21.27	PAM5401LNG	45.68
MS55L	6.82	MSA1124	8.00	MSSK003	16.75	MSSK2101	36.59	PCU10135S	7.50
MS55R	6.82	MSA1125	8.00	MSSK004	16.75	MSSK2102	17.02	PECO-BB1-1	51.83
MS67	22.00	MSA1126	7.49	MSSK005	23.70	MSSK2103	25.00	PECO-BB1-2	51.83
MS68	22.00	MSA1127	4.99	MSSK007	19.62	MSSK2110	11.06	PECO-BB1-3T	70.46
MS69	18.99	MSA1128	4.99	MSSK008	13.75	MSSK2111	11.06	PECO-BB1-4T	70.46
MS6XL	3.10	MSA1129	50.78	MSSK009	16.00	MSSK2112	21.70	PECO-BB1-6	52.27
MS6XR	3.10	MSA1130	23.66	MSSK010	5.53	MSSK2113	21.70	PECO-BB1-7	52.27
MS70	25.00	MSA1131	22.51	MSSK011	3.50	MSSK2114	21.70	PEG10002	10.55
MS71	14.00	MSA1132	11.45	MSSK012	41.25	MSSK2115	21.70	PEG100030	10.51
MS73	30.00	MSA1133	12.50	MSSK013	260.00	MSSK3000	169.63	PEM10036	14.61
MS82	43.50	MSA1134	11.00	MSSK014	21.27	MSSK3001	169.63	PEQ10010	25.34
MS83	50.03	MSA1147	19.15	MSSK015	36.50	MSSK3003	109.25	PEQ10019	17.05
MS85	39.62	MSA2000	0.91	MSSK017	58.72	MSSK3004	121.62	PEQ100650	21.60
MS86	135.00	MSA2003	0.91	MSSK018	7.00	MT632	7.19	PEQ100690	21.40
MS87	140.00	MSA2004	0.56	MSSK019	24.00	MT633	7.19	PF101A	6.15
MS8L	4.30	MSA2005	0.91	MSSK019SPRING	2.20	MTC3	3.00	PF102A	6.15
MS8R	4.30	MSA2006	0.56	MSSK020	18.50	MTC4	4.21	PGG10058	90.90
MS90	41.73	MSA2007	0.91	MSSK021	18.50	MTC5	3.00	PGG100890	113.63
MS91	41.73	MSA2008	0.91	MSSK022	29.50	MTC6	4.21	PM05	26.00
MS96	20.00	MSA2116	6.50	MSSK023	29.50	MTK003	57.86	PP8	1.60
MS97	5.74	MSA2119	3.56	MSSK024	4.00	MTK007	57.86	PPK1	2.17
MS97B	5.74	MSA2120	4.21	MSSK025	72.34	MTP002	2.50	PPK2	3.00
MS98	5.74	MSA2121	4.50	MSSK026	72.34	MW002	18.30	PPK3	3.00
MS99	5.74	MSA2122	6.99	MSSK027	38.30	MW003	6.38	PPK4	3.93
MS9L	3.65	MSA2123	4.75	MSSK028	9.36	MW004	8.34	PPK5	3.93
MS9R	3.65	MSA2124	2.99	MSSK029	31.53	NAM5645	2.00	PPK6	4.81
MSA0191	73.19	MSA2125	2.99	MSSK030	33.19	NAM6450F	27.23	PPK7	6.95
MSA0192	36.42	MSA2126	2.99	MSSK031	39.48	NAM7914	2.30	PRC9916A	4.50
MSA0193	35.52	MSA2127	2.99	MSSK032	37.69	NAM8563	1.52	PRO804	12.50
MSA0194	39.22	MSA2128	4.75	MSSK035	13.36	NAM9075	2.54	PRO805	12.50
MSA0195	16.98	MSA2129	4.75	MSSK036	25.00	NAM9105PMD	9.83	PS610241	0.20
MSA0196	16.98	MSA2130	2.11	MSSK037	27.50	NGM1A	34.00	PT4008	2.99
MSA0200	92.77	MSA2219	12.77	MSSK040	12.76	NGM2A	34.00	QL5000	38.50
MSA0201	38.72	MSA2220	12.77	MSSK041	10.22	NMA1080	20.00	R22	4.00
MSA0202	37.87	MSA2221	12.77	MSSK050	3.92	NMA1081	20.00	R22BLUE	5.06
MSA0203	40.00	MSA507	36.00	MSSK1000	17.00	NMA1082	20.00	R22RED	5.06
MSA0204	19.57	MSE1	852.50	MSSK1000L	22.00	NT605061	0.16	R23	4.80
MSA0205	16.98	MSE3	361.70	MSSK1004	13.75	OA	1.50	R23BLUE	5.06
MSA0207	44.25	MSE4	361.70	MSSK1005	15.50	OAA	3.30	R23RED	5.06
MSA0210	12.00	MSE5	365.70	MSSK1006	15.50	OL	3.06	R24	5.40
MSA0212	6.85	MSE6	327.66	MSSK1007	90.54	P15037-00	98.31	R24BLUE	6.50
MSA0213	13.19	MSE7	361.70	MSSK1008	90.54	P20397-00	70.44	R24RED	6.50
MSA0214	8.19	MSE9	361.70	MSSK1009	90.54	P20397-40	23.77	R33636-00	38.00
MSA0215	11.50	MSG02	1371.00	MSSK1010	111.70	P20659-00	37.50	R35960-00	28.30
MSA0216	11.50	MSG03	1375.00	MSSK1010GREY	122.43	P20773-20	24.94	R39390-00	41.00
MSA1000	11.50	MSG04	1682.55	MSSK1011	50.63	P20773-40	24.94	RA1570-00	37.20
MSA1001	18.25	MSG05	1782.55	MSSK1012	50.12	P20773-60	20.00	RA608076	0.16
MSA1002	16.05	MSG06	1715.00	MSSK1013	50.12	P21250-00	23.75	RC40	37.00
MSA1003	11.00	MSG07	1815.00	MSSK1300	17.00	P21250-20	23.75	RC40-001	5.55
MSA1101	35.00	MSG08	1756.00	MSSK1301	28.00	P21250-40	23.75	RC40-002	4.75
MSA1109	25.64	MSG09	2078.00	MSSK1302	22.00	P21251-00	16.76	RC40-010	40.18
MSA1109BLUE	37.22	MSG12	20.84	MSSK1303	28.00	P21251-20	16.76	RC40-011	36.08
MSA1109RED	37.22	MSG20	85.17	MSSK1304	35.01	P21251-40	16.76	RC40-012	40.18
MSA1110	27.00	MSG21	119.66	MSSK1305	24.00	P21251-60	16.76	RC40-013	29.88
MSA1111	25.69	MSG22	100.20	MSSK1306	32.00	P21253-00	28.72	RC40-014	33.00
MSA1111BLUE	36.24	MSG23	106.63	MSSK1307	32.00	P21253-20	28.72	RC40-051	68.09
MSA1111GREY	36.24	MSG24	120.35	MSSK1308	33.00	P21253-40	28.72	RC40-052	83.63
MSA1111RED	36.24	MSK001	12.06	MSSK1400	17.02	P21253-60	28.72	RC40-053	69.92
MSA1112	18.37	MSL2	43.74	MSSK1401	17.02	P22357-20	118.00	RC40-054	68.09
MSA1113	18.37	MSL2010	12.00	MSSK1402	22.00	P22357-40	44.68	RC40-055	80.43
MSA1114	25.52	MSL2025	12.53	MSSK1403	22.32	P22463-20	33.00	RC40-056	69.92
MSA1115	3.00	MSL2030	14.93	MSSK2000	153.64	P22463-40	30.00	RC40-057	18.25
MSA1116	2.77	MSL2040	14.50	MSSK2001	70.52	P22464-20	110.00	RC40-058	21.44
MSA1118	2.50	MSRJF	10.96	MSSK2002	48.00	PAM1014	14.04	RC40-059	16.92
MSA1119	5.95	MSRJM	10.96	MSSK2003	61.74	PAM1015	14.04	RC40-060	45.23

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RC40-061	41.28	SEAT03	77.87	STICKER04	0.60	TOOL03	6.50	WKN6 OSET	4.19
RC40-062	41.28	SEAT03BLUE	77.87	STICKER05	0.68	TOOL04	4.63	WKN7 OSET	4.19
RC40FK	6.50	SEAT03GREY	77.87	STICKER06	0.90	TOOL05	12.50	WKN8 OSET	4.19
REDLINE	10.00	SEAT03RED	77.87	STICKER07	1.25	TOOL06	6.18	WKN9 OSET	4.19
REV01	49.54	SEAT03V	98.23	STICKER08	0.33	TOOL10	37.50	WLD10027	5.79
REV02	58.58	SEAT05	200.00	STICKER09	0.35	TOOL11	37.50	WLD100350	4.59
REV03	58.75	SEAT09	20.14	STICKER10	0.60	TOOL12	8.47	WLD100660	6.57
REV04	65.98	SEAT10LEFT	34.27	STICKER11	0.80	TOOL13	6.00	WYA10001	6.30
REV05	65.83	SEAT10RIGHT	34.27	STICKER12	0.33	TOOL14	8.40	WZX1099A	9.49
REV06	2.00	SEAT11	95.00	STICKER13	0.35	TOOL15	4.50	WZX1100A	7.10
REV07	2.75	SEAT11V	95.00	STICKER14	0.60	TOOL16	4.50	WZX1177	8.51
REV08	19.00	SEAT11VPIPING	104.43	STICKER15	0.80	TOY07	130.00	WZX1300	7.40
REV09	1.90	SEAT12	73.45	STICKER16	0.35	TOY08	10.00	WZX1509A	10.35
REV10	1.70	SEAT13	76.05	STICKER17	0.60	TOY09	11.15	WZX1851	16.10
RFN403	1.17	SEAT14	109.11	STICKER18	0.80	TOY10	10.00	WZX1852	20.55
RLO20	13.25	SEN43	120.64	STICKER19	0.35	TOY19	26.99	WZX1859	34.67
RLO21	13.00	SEN45	22.38	STICKER20	0.60	TP	2.70	XBC103410	20.00
RLF200	12.76	SG604073	0.25	STICKER21	0.85	TR204	1.50	XBC103780	45.00
RMP307	0.35	SH605181	0.39	STICKER22	0.65	TR205	1.76	XBC104430	16.00
ROCKER CVR02	35.00	SIB110	37.15	STICKER26	0.85	TR206	1.50	XBC105230	55.00
ROCKER CVR03	35.00	SIB110MG	38.76	STICKER27	0.80	TR207	1.56	XBD100670	7.10
ROCKER CVR06	71.27	SIB120	67.08	STONEGUARD	8.94	TR208	1.50	XBJ100280	37.63
RRC109640MNH	101.13	SIB120MG	67.08	STS504	41.31	TRA32	24.26	XBN10008	43.88
RRC109640MS	61.00	SIB122	67.08	SUMPGUARD	35.00	TRA33	24.26	XBU10044	10.64
RS17	31.76	SIB122MG	67.08	SUPERFINS	85.06	TSHIRT05	8.47	XBU10045	7.50
RS18	36.75	SIB130	53.70	SWAB001	47.85	TTW4	10.00	XBU10046	6.50
RSX519	363.02	SIB130MG	55.68	SWABC	9.78	TURBO	25.00	XBU100640	10.64
RSX520	363.02	SIB220	19.43	SWABM	29.70	TURB003	49.30	XBU100650	11.03
RTC202A	11.00	SIB220MG	21.00	SWABS	75.50	TURB004	47.50	XBV100300	21.04
RTC440A	15.00	SIB320	19.43	SWG511ST	94.43	TURB005	77.90	XBV100610	22.09
RTC465	0.16	SIB320MG	21.00	SWG527	34.07	TURB006	42.50	XFB101200	34.00
RTW506	47.49	SIB420	45.16	SZU10001	3.80	TURB007	45.00	XFB101210	34.00
RU-0840	23.57	SIB420MG	46.90	T350	15.95	TYRE01	29.79	XFE10006	21.60
S4698B	25.23	SIB422	45.16	T351	12.76	TYRE07	24.25	XFE10007	20.40
S4699B	32.15	SIB422MG	46.90	T352	12.76	TYRE08	32.00	XFM100460	3.71
S4700	10.97	SIB521	38.25	T353	12.76	TYRE15	44.27	XFJ10026	5.68
S4701	15.55	SIB521MG	40.24	T354	15.95	TYRE17	36.42	XFJ10027	5.68
S5400	8.20	SIB800	9.99	T356	11.05	TYRE18	42.77	XFJ10028	7.50
S6007	20.00	SIB801	9.99	T357	18.20	TYRE19	56.25	XFJ10029	7.50
SAAS1022	5.96	SK200	182.79	T359	15.95	TYRE20	38.50	XGA9934	8.50
SAAS501	5.50	SD4	8.25	T360	13.50	VGA1995	12.60	XNB10007	15.00
SAC71	4.25	SP224	9.78	T363	13.36	VGA4187	9.50	XNB100380	47.97
SAC71BLUE	7.50	SP225	13.62	T368	9.95	VGA4188	9.50	XPC100200PMP	102.74
SAC71C	7.50	SP226	5.00	TAM1058	5.00	VGA4192	13.50	XPE100420PMP	38.70
SAC71L	6.25	SP227	21.27	TAM1059	6.00	VUB103670	53.25	XUJ100070	7.96
SAC71RED	7.50	SPC2	2000.00	TAM1061	6.00	WELLA CAPS	1.84	YCB100320	12.00
SBB10099	7.33	SR3	7.00	TAM1521	7.00	WELLA CAPS12	1.84	YGA1106	27.58
SBB10126	8.50	SR4	7.66	TAM2068	3.12	WFX10045	141.55	YGA1107	27.58
SBB10186	8.50	SS4	6.60	TAM2069	5.41	WFX100810	178.37	YGJ100010	5.50
SBB10187	8.50	SS501	21.76	TAX01	1.50	WHL1000	32.49	YJH100010	0.59
SBB103400	27.47	SS502	23.70	TAX02	1.50	WHL1001	34.67	YJJ100040	0.59
SBB103720	27.47	SS503	24.99	TD108051A	0.82	WHL1003	2.50	YMC10654	273.13
SBF10027	7.99	SS51	7.50	TE5	3.99	WHL1004	0.60	YML10654	0.85
SBF10031	7.99	ST110	1.00	TIM002	25.50	WHL1005	51.25	YSP024	20.00
SBK1	1.30	ST113	1.00	TIM004	5.09	WHL1007	48.83	YSP025	20.00
SBK2	1.50	ST115	1.20	TIM005	12.11	WHL1008	50.49	YSP026	20.00
SDCLEANER	6.66	ST120	1.19	TIM006	12.75	WHL1010	2.50	YSP027	20.00
SDOIL01	3.13	ST126	1.00	TIM007	11.39	WHL1014	2.25	YTA10037	17.49
SE910161	0.17	ST135	0.95	TIM008	12.07	WHL1017	59.57	YWB10012	11.93
SEAT01	58.66	ST136	0.95	TIM011	25.87	WHL1018	2.50	YWB10020	10.78
SEAT01REDV	63.00	ST137	1.00	TIM014	23.94	WHL1020	65.11	YWB10022	66.89
SEAT01SPEEDWELL	65.85	ST153	1.60	TIM021	3.00	WHL1021	39.22	YWB10032	10.43
SEAT01V	59.24	ST154	1.00	TIM022	3.50	WKN1 OSET	4.19	YWC10050	16.74
SEAT01VGREY	66.94	STC505	43.88	TIM023	3.00	WKN2 OSET	4.19	YWL10010	35.31
SEAT01VPIPING	65.00	STICKER	0.50	TIM034	16.07	WKN3 OSET	4.19	YXX3199PA	5.12
SEAT02	67.35	STICKER01	0.50	TIM039	4.50	WKN4 OSET	4.19	YXX3200PA	0.66
SEAT02V	76.05	STICKER02	0.50	TOOL01	237.00	WKN5 OSET	4.19	ZKC3317	0.93
SEAT02VGREY	77.84	STICKER03	0.52	TOOL02	7.50	WKN505	0.98		

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