

Wheels and **Radiator Hoses**

Minilight Wheels



Deep dish, polished rim with CN5 type nuts & center caps.

c. Center capC-21A1983



2. Steel wheels 4.5 x 10". a. Silver finish. Sold individually 21A1286 b. Old English White finish. Sold individually .21A1286WHITE c. Cap to fit above wheels. Sold individually 21A1287

Classic Wheels

3. Dunlop 5x10" look alike





4. Rose petal wheel. 4.75x10" C-21A1071

Radiator Hoses

Radiator hoses break down into 3 main types.

1959 - 1989, those with the cast metal heater valve bolted to the cylinder head. The redesigned bottom hose • Low Heat transfer for these will fit everything and is made in KEVLAR or silicon only, for longevity as they are awkward to replace.

1989-1996 with a plastic hose fitted in heater hose line. 1996 on cars with twin point injection with front mounted radiator had totally different hoses.

* These hoses come in small or large bore size but with different lengths so

- Long lasting Hi strength

 Wear Resistant A high tech aramid fiber produced by DuPont. Kevlar fibers are evenly dispersed & bonded to the rubber, giving considerable strength.

Silicon

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.

			Rubber	Kevlar	Silicon
	Bore	Original MK1 Mini Radiator plus all 998 / 1098 clubman. 61/2" long	GRH467		C-GRH467 Order this part in kit C-GRH003
IOSES	Small	850/998 from 1967 or any new /* type radiator 5" long	GRH245		C- GRH245 Order this part in kit C-GRH001
H GO	Bore	Copper 'S' and 1275cc Mini	GRH247	GRH247KEVLAR	C - GRH247 Order this part in kit C-GRH002
) i	Large	1275GT Clubman / 1/2" longer than 'S'		GRH469KEVLAR	C- GRH469 Order this part in kit C-GRH004
BOTT	ГОМ	With heater outlet		GRH240KEVLAR	d C- GRH240
HOS	SE	Without heater outlet	GRH802		
		1/2" Heater hose. (sold per metre except silicon)	GRH1006	GRH1006KEVLAR	1m = C-GRH1006 1.2m = C-GRH1007
SES		Cooper with HIF44 13/4 carb. 11/4 bore hose one end. 1990-92	9 GRH1140		C-GRH1140
P HO		Mini HIF38 $1\frac{1}{2}$ carb 1991-1994 Plus all single point injections	6 GRH1212		C-GRH1212
TOT		Twin point with front mounted radiator. 1966 on	GRH1465		C-GRH1465
ES		Mini HIF44 1³/₄ carb	GRH1159		C-GRH1159
SOH		Mini HIF38 1½ carb 1991-1994	© GRH1289		
10 F		Single point injection	GRH1242		C-GRH1242
BO		Twin point injection. Fits 1996 only	GRH1466		
1		⁵ /s" Heater Hose Sold per metre	GRH905	TITUTE OF THE PARTY OF THE PART	
	BOTTOM HOSES HEAT	TOP HOSES TOP HOSES	850/998 from 1967 or any new type radiator 5" long Copper 'S' and 1275cc Mini 1275GT Clubman '/2" longer than 'S' BOTTOM With heater outlet HEATER HOSE (sold per metre except silicon) Cooper with HIF44 13/4 carb. 11/4 bore hose one end. 1990-92 Mini HIF38 11/2 carb 1991-1994 Plus all single point injections Twin point with front mounted radiator. 1966 on Mini HIF44 13/4 carb Mini HIF44 13/4 carb Single point injection Twin point injection Twin point injection Twin point injection Twin point injection. Fits 1996 only	Original MK1 Mini Radiator plus all 998 / 1098 clubman. 61/2" long) System of Sure then buy the longer one & cut to length needed. Original MK1 Mini Radiator plus all 998 / 1098 clubman. 61/2" long) System of Superior o	Original MK1 Mini Radiator plus all 998 / 1098 clubman. 61/2" long) 850/998 from 1967 or any new type radiator 5" long Copper 'S' and 1275cc Mini 1275cc Mini 1275cc Mini 1275cc Mini 1275cc T Clubman 1/2" longer than 'S' BOTTOM HOSE HEATER HOSE Cooper with HIF44 13/4 carb. 11/4 bore hose one end. 1990-92 Mini HIF38 11/2 carb 1991-1994 Plus all single point injections Twin point with front mounted radiator. 1966 on Mini HIF44 13/4 carb 1991-1994 Single point injection Twin point injection Fig. 1946 With leater Hose GRH1006 GRH11212 GRH1140 GRH1242 Twin point injection GRH1242 Twin point injection. Fits 1996 only GRH1246 HEATER 5/8" Heater Hose GRH247 GRH247KEVLAR GRH247 GRH247KEVLAR GRH248 GRH1006 GRH1006 GRH1006 GRH1006 GRH1140 GRH1140 GRH1159 GRH1140 GRH1159 GRH11466

Hose Kits

5. Silicon hose kits include: 1 x C-GRH240 (d) 1x C-GRH1006 (e - 39") 1x C-GRH1007 (e - 42") but have different top hoses: Includes Top Hose . . Order kit as C-GRH245 (b) C-GRH001 C-GRH247 (c) C-GRH002

C-GRH467 (a) C-GRH003 C-GRH469..... C-GRH004

6. The rubber Grommet that sits in the body as a sleeve to protect the heater hoses from chaffing.

a. For 1"(25mm) hole pre 1989..... 34G3651 b. For 15/16"(33.5mm) hole. 2" wide.

Heater Hose Grommet

Radiator Caps

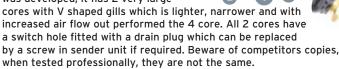
7. a. 71b long neck 33.6mm tall, early 850cc GRC101
b. 7lb short neck 27.5mm tall, 850/998. 1965-69GRC102
c. 13lb short neck 27.5mm tall, 1970-80 GRC1111
d. 15lb except rads with sender unit, 1980-92GRC1110
e. 15lb as above, has built in seal, 1992-96GRC207
f. Non pressurised cap for some expansion tanks GRC126
8. Plastic expansion tank cap twin point cars GRC1184

Radiators, Fans and Thermostats



Radiators & Fans

In 1978 we introduced a 4 core radiator with 25% increased water capacity which greatly increased cooling efficiency. To cope with hotter running engines a 2 core radiator unique to Mini Spares with original shape header tanks was developed, it has 2 very large



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.

1.	a. Super cool 2 core radiator with drain plugC-ARA4442
	b. As above with heavy duty screw in sensor C-ARA4443
2.	a. 4 core radiator
	b. 4 core radiator with drain plug C-ARA4444B
	c. 4 core radiator with fan sensor unit
3.	3 core original S radiator 90on, push in sender type GRD172
4.	3 core standard replacement radiatorARP2000

Aluminum 2 core radiator for extra hot climates. a. Fits pre 1990 Minis C-ARA4441

b. Fits Minis 1990 on C-ARA4441A

6. Aluminium 2 core radiator with universal plug hole for electric fan switch, comes with plug when switch not used

..... C-ARA5000 Replacement screw in sender for

C-ARA4443..... C-ARA4445 8. a. Push in sender unit for GRD172

original Rover fitting GVS104 b. Seal for GVS104 available separately. CDU2334

c. Clip for CDU3374 seal and sender unit KTP9002 Front mounted radiator as used on MPI

injection Minis, now supplied with metal header tanks GRD974

10. Mini Spares top finisher for original MPI plastic type radiator. Does not fit current metal type8B12600

11. a. Original Expansion tank for MPI in plastic PCF101240 b. In alloy for durability and engine bay cosmetics/looks......PCF101240ALL0Y







Radiator Fans

17. 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......2A997

18. Six blade metal fan as used on export 19. Eleven blade plastic yellow fan as used on

home market Minis.....12G2129 20. a. Complete electric fan kit for Mini or Clubman made by the original Kenlowe

b. Replacement temperature sender for Kenlowe only.

21. Sender unit sleeve that fits into a cut top hose with adjustable temp dial, not advisable for Cooper S top hose GRH247 owing to hose size and shape.





22. Full electric fan kit includes fan, brackets, professional variable adjustable fan temperature switch (70-120c), sender unit

23. a. Replacement for the old Rover 5 blade electric fan PGG10058 which is now obsolete. Mini Spares new 10 blade plastic fan has been adapted to fit any 1991-1995 mini that has the large round hole in the inner wing as standard using existing fitting points and wiring. PGG10058MS **b.** The same electric fan but for universal

c. Twin point original front mounted





Original Fan - Now Obsolete PGG10058

New Replacement Fan - PGG10058MS

Radiators Brackets

12. a. 'S' top radiator bracket. Required when fitting 1300cc based engines in the Mini, (not Clubman). Available in stainless steel for

13. a Top radiator bracket for 1990-96 Minis in stainless steel PCU10135S b. Top radiator bracket for 1990-96 Minis in

lower pre 1974......11G227 15. Radiator bracket seal. Lower only 1974 on

(one piece cowling).....CAM4618POLY 16. Original top shoulder bolt. Upto 1974 (two piece cowling) 11G228 16



Thermostats & Blanking Sleeves

Removal of the thermostat helps reduce engine 24 temperature where cooling is a problem, but 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 the by-pass outlet drilling omitted from alloy casting. The higher the temperature the more thermally efficient the engine becomes, the 88° was fitted as standard from 1990 on. 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. The gaskets are GTG101MS.

24. Thermostat blanking sleeve.............11G176 25. a. 74°C thermostat (165°F) GTS102 b. 82°C thermostat (180°F)..... GTS104 c. 88°C thermostat (192°F)........... GTS106





Thermostats Housings

- 1. a. The most commonly fitted thermostat housing (water elbow) up to 1990 before introduction of sandwich plates. Also fits most single point injection cars, without ancillary holes.....126103 b. Thermostat fitting kit. 12G103FK
- Thermostat & sandwich plate gasket ... GTG101MS Same 12G103 casting shape but with a 8mm hole
- drilled for sensor unit on carb models 1990 on. PEQ10010
- 4. Large bore (1.25" 32mm) elbow. a. For small outlet pipe is not drilled as fitted to Mini from 1990 on carb models..... PEQ10019 b. For small outlet is drilled as overflow pipe for expansion tank as used on Mini Metros... CAM6117
- 5. Some late single point and autos. PEQ100690 Twin point front mount radiators only 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 which also
 - fitted the ERA Turbo. a. Metro and ERA Turbo where the outlet points straight at radiator and has 14-15mm bore
 - b. Sandwich plate with 10mm bore outlet elbow but no threaded holesPEG10002 c. As per PEG10002 but with extra 8mm thread hole for YWL10010 sensorPEM10036
 - d. As per PEM10036 but with 12mm thread hole (1.5 fine pitch) to take sensor GTR206 for twin point injection only.....PEG100030

emperature Transmitters



- 8. Temperature transmitters that fit in cylinder head.
 - a. All Minis 1970 on GTR101 b. Cooper 'S' from 1964 and all Minis up to 1970 with voltage stabiliser fittedGTR104
- Single point injection fits in manifold. Cars after 1991..................GTR307 10. Twin point injection cars, fitted in
- sandwich plate GTR206 11. Cooper SE sensor, fits in sandwich
- plate. Fits Cars 1990-91 YWL10010

High Capacity Water Pumps



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. Superseal gasket is available as GUG705555GM.

- 12. 850cc and early cars where large impeller will not fit GWP132 13. a. High capacity water pump with by-pass hose take off GWP134
- b. Water pump fitting kit......GWP134FK 14. a. High capacity water pump - no by pass hose take off..... GWP187
 - b. High capacity, one bolt hole less, Twin point only. GWP188

Water Pump By-Pass Hoses

15. This longer By-Pass tube enables the hose to be changed without removing the cylinder head. Slide the shortened hose up the tube and then back down on the water pumps 12A2O75

16. A source of misery to owners of earlier cars, the by-pass hose was eventually discontinued on late A plus engines.

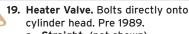
a. Kevlar reinforced hose fits all except 1275cc engines but will need shortening by 8-10mm when used with the longer cylinder head by-pass tube 12A2O75GZA2083

b. Kevlar reinforced longer hose for cooper 'S' and all 1275Ccc enginesAEG484 c. Silicon hose for 1275cc, shorten for fitment

17. Fluted flexible hose allowing fitment without removing cylinder head. Supplied with clips 12A1093MS

18. Original by-pass hose clip3H2963

Heater Valves



a. Straight (not shown)..... 13H5506 b. Angled genuine ADU9102 c. Angled Non genuine..... ADU9102MS d. Gasket 88G221

20. Plastic Body In-line Heater Valve. JJB10011

21. Plastic Body Heater Valve for twin point cars only......JJB100260 22. Heater valve blanking plate for cylinder

head when required 2A180 23. Heater tap stud. Sold individually

......53K402 24. a. Heater tap stud. Stainless steel.

Sold individually 53K402S b. Heater tap stud & six sided nut. Stainless steel (2 of each). C-STR285

25. Heater tap bolt as fitted to later A+ engines in s/steel. (Sold in pair) C-STR283

Heater Radiator Matrix

26. If your heater is not blowing warm air or is leaking it is likely that the cores are blocked. Check outlets to find replacement.



Upto 1969 MK1/2 Mini 17H8608



MK3 on 1970-84 37H7216

1991 on

JFF10005



1984-91 MK4 on **BAH5043**



27. Heater matrix outlet pipe

replacements parts. a. Pipe only for BAU5043 JEP10007MS b. Full kit for BAU5043 JEP10007

28. Heater matrix outlet pipe replacements parts. Full kit for JEF10005..... JEP10008

Engine Core Plugs

29. a. Core plug 41.4mm wide Cup type for all Cooper 'S' engines only. Sold individually . AEH592 b. Core plug 33.6mm wide Cup type for all A Plus engines and 1275cc non S engines AEC876

30. Core plug 41.4mm wide Flat dished type for all early A series Pre A Plus2K8169



Oil Coolers, Hoses and Filters



Oil Coolers 10 row oil cooler. MOC10ROW 13 row oil cooler as fitted to Cooper 16 row oil cooler for competition use..... MOC16ROW Original oil cooler brackets to fit on front subframe. Sold individually21A1794

Oil Cooler Hose Kits

(Check clearance on latest cars).

Mini Clubman / specials usually require longer pipe kits than the standard Mini. Kits include all unions for easy fitment. Rubber is adequate for standard use but Braided is more durable and preferred for Competition Performance use.

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 changed on all engines with a 12A prefix number and became universal at 11/16" UNF. The filter head for these is recognisable by casting part number LPX10027.

See chart below for part numbers



Braided Kit Code	Rubber Kit Code	Fits Mini	Block To Cooler	Filter Head Pipe To Cooler
C-AHT3	M0C100102	(Mini Clubman)	14" - 14.5"	24"
C-AHT4	M0C1013	(Mini)	12"	14"
M0C1017	M0C1015	Pre-engage starter to '92	15"	22"
M0C1016	M0C1014	(12A engine/1992 ON)	15"	22"

Oil Cooler Connections

6. Oil temperature sender housing for special requirements when vou need to know the temperature of the oil. Fitted before the oil cooler it will show maximum



the oil cooler it will show the more important temperature of the 1" long from bend push-fit 1/2" BSP thread union to fit oil cooler

- 1" long from bend push-fit 1/2" BSP thread union to fit oil cooler
- Original oil cooler union for oil filter. Supplied in complete kits.
- 10. Original block union for oil cooler hose. Complete kits..... MOC1 Equivalent to number 9 and 10 as a kit, but with push-on ends for using oil cooler hose on special fitment in pairs only. MOC3
 - 12. Rubber oil-cooler hose sold per foot. i.e. 30cm.

Oil Cooler Thermostat

13. 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

Braided Oil Filter Hoses

14. Braided pipe for oil gauge, made to the required length of 4ftC-AHT9

15. Engine blocks to oil filter housing braided pipe kit.

12A engine/1992 on



1/4NPT

M0C1020

Spin On Type Oil Filters

11/16"unf



16. a. Unipart first grade filter as fitted to new cars (spin on type). b. For twin point injection cars, 97on GFE280

17. Spin on type oil filter heads.

a. Fits engines pre 1992 with 1/4npt union thread size.... TAM2097

b. Performance strengthened filter head type in billet alloy to stop leakage with 1/4npt union thread size............12A2032RACE

18. MAGCOM pre filter magnet collects debris from engine oil. Screws to the block for spin-on type filter heads. Except MPI.....

19. Remote oil filter kit. This kit fits all A series engines that have a 2 bolt fixing filter head and takes a spin on filter. Used by many motorsport enthusiasts to make the filter accessible where engine bay room is tight......RFK9







Good quality oil is very important in Mini's 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, race engines benefit by using synthetic oils, which help by coating 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 / sealing properly. NOTE: Oil can only be sent with filter not as part of larger package.

20. a. Classic Castrol 20W/50 oil supplied in retro style 1 gallon

21. Millers oil specially formulated for Mini engine & gearbox.

b. 20W50, semi synthetic MILLERS002

22.a. GTX 5 litre, 15W 40 gradeGTX b. Unipart 20W50, Good general oil for standard engines or to

run engines in before using synthetic oils GUL7005T c. Unipart Semi Synthetic 10W40, Superb all round use oil. GUL2005B

d. Unipart Fully Synthetic 5W40 GUL1005B

