

Complete Subframe Packages

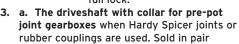
Tania

- 1. a. Front subframe unit with suspension and running gear, rubber mounted 1976-96 complete as shown, b. As above but with subframe for twin point front mounted radiator 1996
- 2. 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



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.



..... C-BTA1267 b. The same collared driveshafts but for pot joint gearboxes with inboard CV Joints (Pot Joints). Sold in pair C-BTA1268

Upgraded steel driveshafts with circlip grooves but upgraded to stop ends twisting are available for both pot joint and remote type. (not shown).

b. For pot joint type. Sold in pair C-BTA1264

- For grass track racing or other extremely destructive usage a pair of larger diameter driveshafts are available. CAll for details.
- 6. Standard replacement driveshafts but upgraded to EN24WX to enable performance usage Available individually (Not shown).
 - a. For pre pot joint Mini, Autos and 'S', R/H.............27H4775 b. For pre pot joint Mini, Autos and 'S', L/H 27H4776LFT
 - c. For pot joint Mini, R/H......MS1246 d. For pot joint Mini, L/H......MS1247



7. 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. Special order only. Call for details.

Swivel Pin Kit

- 8. 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.

Each set is enough to do one hub only.

CV Joint & Gaiter Kits

- CV Joint for Cooper and all drum brake
- 10. Constant velocity joint, 'S' GT or any Mini 1984 on. 15/16" nut size. Sold individually GCV1013
- 11. CV gaiter kits. With plastic clips & grease. Order individually.
 - a. Universal kit. Fits any CV 18G9027MS b. Genuine kit. For GCV1105 small joint. GDG233
 - c. Genuine heavy duty kit with metal clips & grease. For GCV1013 large joint.... GSV1053
- 12. Driveshaft small yoke end gaiter pre pot

Alloy Calipers

FOUR POT 6082T6 Allov billet calipers

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.

13. a. 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.

b. Pair of 4 pot calipers for use with 8.4" diameter brake

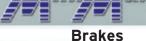
disc and 12", 13" wheels. Kit contains 1 pair of calipers with retaining clips and pins. Brake pads are NOT included owing to customers different

14. 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 (only black available) and correct retaining clip and pins C-AJJ4021

WEIGHT COMPARISONS										
4 piston alloy caliper	1.8kg									
'S'/1275GT caliper	2.66kg									
Late Mini caliper (post 85)	3.46kg									
A niston iron calinor	2 /19kg									









Caliper Pistons / Seals



ground for micro finish to stop sticking, **Order** Caliper seal not a mass produced cheap gimmick. each piston repair kit per caliper individually a. For 997/998cc Cooper 7" disc17H7913 8G8587 b. Cooper 'S' 1275GT 7.5" disc...... 17H8626 8G8830 d. Metro and Mini Spares 4 pot caliper ... SAAS1022..... GRK5003

Brake Shields & Shoes

- 2. Right hand pair of disc shield covers. a. Pair of 7.5" covers..... MMKT0531 b. Pair of 8.4" covers HMP441032 3. Left hand pair of disc shield covers. a. Pair of 7.5" covers..... MMKT0531 b. Pair of 8.4" covers HMP441033 Shield to hub steady bracket. a. R/H.....BTA1208
- 5. Protector plates for protecting hose to calipers as used on works cars. Sold as a pair.......... C-AJJ3369
- Brake Shoes in axle sets of four.

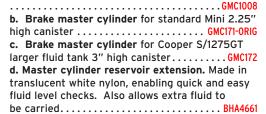


- a. 1 1/2" wide front brake shoes (4)....GBS102MS
- b. 1 1/4" wide rear brake shoes (4).
- GBS101MS d. 1 1/4" wide rear brake shoes(4) genuine.GBS834AF

Master Cylinders

7. Original Lockheed metal type canister master cylinders. "Lockheed made in England" is embossed into the surface, as supplied by the factory. Pre 1976.

a. Clutch master cylinder for all Mini.



8. Plastic container larger capacity type master cylinders.

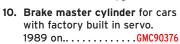
b. For clutch. All models GMC1008

9. Brake master cylinder front to rear split. With yellow identity band. Pre 85 cars require metric union brake pipe kit. a. Master cylinder 1976-89.

b. Brake pipe kit R/H drive. BAU5654

c. Brake pipe kit L/H drive. BAU5655





Brake Pads - Unipart, Rover, Mintex, Carbon Metallic and EBC

The Mintex C-TECH range is ideal for upgrading brakes when fade occurs. The center groove in the pad is to stop dust build up. Also available is carbon metallic compound with 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.

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.

rate make the	se a must for all facers.	Black Stuff Kevlar	Green Stuff Kevlar for				
	Unipart/Rover, Standard Material (*except where shown)	C-TECH M1144 Material	Carbon Metallic Material	Street Pads for Road/ Fast Road Use.	Competition, Fast Road light race/rally. Known as roadsport.		
7" Diameter Disc 998cc Cooper only	GBP102	C-AHT223	N/A	N/A	C-AHT223GREEN		
7.5" Diameter Disc Cooper 'S', 1275GT	GBP103	C-8G8995	C-868993	GBP103-KEVLAR	GBP103-GREEN		
8.4" Diameter Disc Late Mini	(Lockheed) GBP281	C-AHT16	N/A	GBP281KEVLAR	C-AHTI6KEVLAR BEEN TOUTE		
Vented Disc Metro/Mini	(Mintex) GBP258	C-868994	C-STR987	GBP258ULTIMAX	C-8G8994GREEN		

Brake Discs and Kits



7" Brake Discs

- Cooper 7" diameter brake disc. Sold individually BTA193
- 2. a. Brake pads for 7" discs. GBP102 b. Kevlar brake pads for $7^{\prime\prime}$ C-AHT223



7.5" Brake Discs

- 3. a. Brake discs 7.5" diameter from upgraded material. Sold individuallyGBD101
- 4. 7.5" Brake disc with grooves to wipe brake pad clean to improve contact area and efficiency. Sold individually
- 5. Vented brake disc machined down to 7.5" for use with 4 pot callipers. Call for details.
- 6. a. Drive flange in upgraded EN24T to reduce wear and cope with extra stress......21A1270 b. Drive flange in standard material EN8 21A1270MS



7.5" Disc Conversion Kits

Complete Cooper 'S' 7.5" diameter disc brake kit for converting from drum brakes to discs.

Complete Kit C-AJJ4028

Complete Kit with non genuine calipers C-AJJ4028MS Complete Kit with brake disc shields

Uprated Kit with 4 pot Alloy calipers & parts

Disc, Flange, Caliper Kit

from 12" to 10" wheels

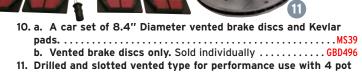
MSSK013

Brake Pads	Calipers	Brake discs 21A1265	Drive Flange 21A1270MS	CV Joint GCV1013	Hub Front RH/LH FAM6618 - FAM6619	Roller Bearing OO GHK1140	Hub Nut Split Washer Split Washer	Swivel pin Kit GSJ166-MS	Grease nipple UHN400	Countersunk Screw SF604051	Bolts & Pins 53K1048 & PS610241	Steering Arm Locktab 2K5377	Brake Disc Covers ZIAIZ71 ZIAIZ72 ZIAIZ73 ZIAIZ74 BIAIZ09	
GBP103- GREEN	27H4656 27H4657	/	/	/	/	/	/	/	/	/	/	/	X	
GBP103- GREEN	27H4656MS 27H4657MS	/	/	/	/	/	/	/	/	/	/	/	×	
GBP103- GREEN	27H4656 27H4657	/	/	/	/	/	/	/	/	/	/	/	/	
GBP258	C-AJJ4023	1	/	/	/	/			/	/	X	X	X	

8.4" Brake Disc

- 8. a. Budget non vented disc only as fitted to all Minis 1984 on. As supplied in above kit. Sold individually21A2612 b. Standard non vented disc only as fitted to all Minis 1984 on. High quality.
- Sold individually21A2612MS 9. Drilled and slotted non vented performance use. Sold in pair........... C-21A2612





pins

only

12. a. Drive flange, non vented discs upgraded EN24T......21A2695

4" Disc Conversion Kits

GRP103-

GREEN

27H4656

27H4657

6.4 DISC CONVENSION KILS															
8.4" diameter disc brake kit for converting to vented discs.	Brake Pads	Calipers reconditioned	Brake discs GBD496	Drive Flange 21A2695	CV Joint GCV1013	Hub Front RH/LH FAM2390/1	Roller Bearing	Hub Nut Split Washer	Swivel pin Kit GSJ166-MS	Brake Hoses C-AJJ4024	Caliper & Drive Flange Bolt 53K1048 & ADU6472	Hub Seal Inner & Outer GHSI73 & GHSI01	Brake Pad Clips & Pins GBK1025		
isc Upgrade Kit to vented discs AJJ4029	GBP258 ULTIMAX	GBC132 GBC131	/	/	X	X	X	X	X	/	/	X	/		
omplete vented disc kit C-AJJ4029A	GBP258 ULTIMAX	GBC132 GBC131	/	/	/	/	/	/	/	/	/	/	/		

Dis C-A

Brake Lines, Valves and Servos

Brake Lines

1. 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, no servo, 1980-88 GL5008 e. Single line, hydrolastic suspension, disc or drum, no servo.

f. Single line, hydrolastic suspension, disc brakes, with servo, g. Diagonal split system van/estate 1978 on GB5007

Rubber Brake Hoses

2. Rubber brake hose sets. Front & rear hoses are sold individually or buy a full car kit of 2 front & 2 rear hoses.

> Front Hose a. Drum brake Mini. **GBH170** (longer front hoses).

b. Disc brake Mini.

Rear Hose **Full Car Kit MMKT0516**

GBH173 MMKT0517

Steel Braided Brake 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.

GBH174

3. a. Set of 4 brake hoses 2x front and b. Set of 5 hoses, kit as above but with clutch hose included for pre Verto.

c. Set of 5 hoses, kit as above but with clutch hose included for Verto only.

d. Pair of front braided hoses only.

e. Pair of rear braided hoses only.

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

5. Braided clutch hose for pre Verto clutches C-AJJ4025

a. Banjo type braided clutch hose for

Braided one piece long clutch hose. Replaces existing rubber hose and metal pipe. For Verto or Pre Verto. a. R/H Type C-AJJ4025C0MP

b. L/H Type..... C-AJJ4025C0MPLH 8. Set of braided hoses for Metro 4 pot calipers when converting for







Servos

9. This is the only remote servo available for the Mini from Lockheed. 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. a. Servo Kit with brackets 13H7940 c. Cooper 'S' fitting brackets only (not in kit) 21A2254 d. The original repair kit for SEN43 or 13H7939 servoLSSB1073

10. This is not the original Cooper S MK1 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.21A1293

11. a. Servo that only bolts to GMC90376 master cylinder as fitted by Rover from 1989 on with split front to rear brakes. which had different pedal box linkage etc GSM119

Note: See item 15 for braided hoses. b. Repair kit for GSM119......GSM120

12. Servo fitting kit is for all single line brake pipe cars when using 13H7939 servo. When this kit is used in conjunction with this servo it makes the set up that was used on the Cooper 'S' MK3. ..MSSK7

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

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

b. MK1/2 fixing brackets. Only fits 21A1293 or original Servo.

14. In-line valve required to stop gas 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 17H2646 15. 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! SEN45

Pressure Regulator Valves

16. Pressure regulator valve for single line systems. Fitted on rear sub frame. a. MK1/2 and Cooper 'S' MK3 21A1774

b. All MK3 except Cooper 'S' 21A2O31 17. Adjustable for competition MS72

18. Pressure regulator valve. Front to rear split systems. Fitted on bulk headFAM7821









Brakes



Drum Brake Components 1. 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......21A1058

b. For L/H..............21A1060 2. One adjuster & 2 wedge kit . 17H7620 a. One adjuster only17H7619

b. Single wedge only17H7618 3. Gaiter for backplate and brake lever

Car set of 4 rear brake shoes return springBRAKE02

5. AP/Rover wheel cylinder, which includes gasket and clip (items 6 & 7).

a. Rear cylinder with .75" Internal bore size. Genuine Part GWC1102

b. Rear cylinder with .625" Internal bore size.

Rear wheel cylinder locating gasket

Rear wheel cylinder clip Order as 17H7949



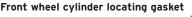
8.Front brake backplate for cars with two wheel cylinders per backplate from 1968 on are made with the adjuster in place. a. For the R/H Backplate 37H2013

b. For the L/H Backplate......37H2014 9. Car set (4) front brake shoe return

10. AP/Rover wheel cylinders includes gaskets (item 11).

a. For R/H Cylinder .9375" bore. Genuine Part......GWC126

b. For L/H Cylinder .9375" bore ... GWC127



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







37H4642

Brake Drums

13. Alloy brake drums - pair, with built in spacer and by virtue of its finned design dissipates heat guicker which in turn helps reduce brake fade.

a. Superior quality.....SUPERFINS

b. Budget pair.....MINIFINS



14. Standard cast mini brake drum for front or rear. Sold individually 21A22

Rear cast brake drum as fitted to Cooper 'S' 1275GT and all Mini's from 1984 on. Characterised by the built in spacer. Sold individually . . 21A1279

Built Up Brake Backplate

16. Built up brake backplate kits for rear includes backplates with adjusters, cylinders and shoes as shown.

a. For rear R/H21A1058KIT b. For rear L/H 21A1060KIT

Handbrake

17. 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 C-AJJ4019

18. Original type handbrake plastic grip. Pre 197613H5541

19. Rubber handbrake grip. 1976 on FAM8356 20. Handbrake Black Vinyl gaiter.

..... СК989А 21. Light weight handbrake cable quadrants for dry suspension.

Pre 1976. Sold as Pair ... C-AJJ4018 22. Original handbrake cable quadrants for dry suspension. Pre 1976. Sold



23. Handbrake cable sector bracket 1976 on. FAM621

25. Cars with Twin Handbrake cables pre 1976. a. Van, Estate and Pickups only.

Sold individually GVC1020

b. Hydrolastic suspension cars only. Sold individually . . . GVC1021

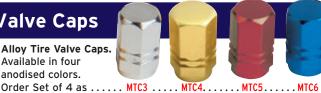
26. Dry suspension cars with Single Handbrake cable from 1976.

c. Front cable van, estate, pickup, 29.25 longFAM625

Valve Caps

27. Alloy Tire Valve Caps. Available in four anodised colors.





Locknuts



28. a. Set of 4 locking nuts for latest Mini/Cooper 8 Spoke Alloy. LOCKNUT1

b. Set of 4 locking nuts for Mamba/Revo 10" wheels.. LOCKNUT2 c. Set of 4 locking nuts for Minilife/Original Minilite Wheel Pre 1980 LOCKNUT3 d. Set of 4 locking nuts for 13"

RFX/Phoenix/Superlite large radius seat CN5 nutCN5

e. Set of 4 locking nuts, Mini 12" steel - 1984 on, Wella CN2/5-type. LOCKNUT5

f. Set of 4 locking nuts, Mini 10" steel - Pre 1984. GB alloys CN1/4-type LOCKNUT6