

DA

AUSTIN SERVICE JOURNAL

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PRE-LOADING BEVEL NION BEARINGS

A30, A40, A50, A70, A90, Austin-Healey 100, A125 and M135

To obtain satisfactory service from a rear axle, it is essential when carrying out an overhaul, to correctly pre-load the bevel pinion bearings.

This pre-loading is achieved by fitting shims between the front bearing inner race and the bevel pinion distance piece.

Pre-loading must be carried out before the oil seal is fitted, but with the bevel pinion flange in position and the nut fully tightened to the appropriate torque wrench reading. These figures will be found in the Service manuals. In the case of the A 125 and A 135 recommended torque figures will be found in this Journal, Volume 22, Section "Axle Rear", page 18.

To check the pre-load use Tool 18G 207, Fig. 1.

The movable arms of the tool are located in opposite holes of the bevel pinion flange and are held in position by means of the knurled nuts, Fig. 2.

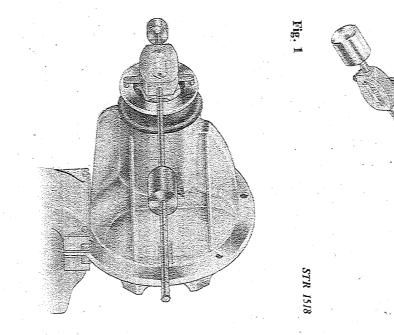
The weight is moved along the rod to the required poundage mark, then if the pre-load is correct, the flange will slowly rotate.

If the flange turns easily, a shim, or shims, should be removed, but if too stiff, extra shims should be added.

When the pre-load is correct, the bevel pinion flange should be removed, the oil seal fitted and the flange replaced.

Tightening the flange nut to the appropriate torque wrench reading completes the operation.

Fig. 2



STR 1519

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Printed in England December 13, 1954

AXLE-REAR

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SHATS

Austin-Healey 100

Seat slides have been introduced for the driver's seat on both right and left hand steering models, so that the seat can be adjusted to suit the driver's requirements. The passenger's seat has been raised to the same level as the driver's seat by fitting packing strips. Three holes have been drilled either side of the passenger's seat base panel so that the seat may be secured in any one of three positions.

INTERCHANGEABILITY

The new seat slides can be fixed to existing cars having the fixed seat, if required. A conversion set of parts consisting of the seat slides, packings, and fixings for both seats, has been made available, and can be obtained by quoting part number B3–634 for R.H. Steering, or B3–635 for L.H. Steering.

SUMMARY	
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LTERAT	
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LTERATION	
ALTERATION	

	HBZ 0410	A submit of the particular and the second	6	plates to floor • • • • •
-				Bolts, base packers and washer
	14B 2881	a source of	6	Washer plates
	14B 2834	en ordene	2	Base packers
-		e nation	4	Seat base packers—top · · ·
-		an and see in	مسر _.	Seat slide assembly
		-		right hand, L.H. Steering
				Seat slide assembly (with lever).
Scats, p. 1	14B 2767			left hand, R.H. Steering
Pub. 1050,		2K 1211	4	Spring washers
	101 KARA,199	PWZ 105	4	Plain washers
· ·	-	53K 928	4	Bolts, seat to tapped plates
		2K 1209	8	Spring washers
		PWZ 103	8	Plain washers
		FNZ 103	8	Nuts for screws
-	Sector and S	51K 1097	~	Screws to floor
	beauty land	14B 2635	4	Tapped plates—seat fixing
Parts List Publication Number	New Part	Old Part	Number Off	Description
		وللمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع		land rate was not construct a restance of the second of the second second second second second second second se

COMMENCING BODY NUMBER: 1001

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FOR YOUR RECORDS PARTS ORDERED ALTERATIONS NOTED Published April 26, 1954

Continued

BODY

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BONNET TOP ASSEMBLY

Austin-Healey 100

A new type steel bonnet top is now being fitted replacing the aluminium type fitted hitherto; there is no change in part number, 4B 1038, and the new bonnet top assembly is interchangeable.

Commencing Body Number: 3397

BONNET CATCH

Austin-Healey 100

replaced by a locknut. A modified type of bonnet catch is now being fitted, the lock ring for the striker pin has now been

replace their old counterparts. INTERCHANGEABILITY: The new striker pin assembly and spring can be used separately to

יווויקאינט און איזאינער איז איזא איזאין איזאין איזאין איזאער און איזאין איזאער איזאא איזאא איזאער און איזאער א און איזאין איזאאן איזאער איז	eneration in the second state of the second states and the second states	กรรณราชราช เสรารรณราชกิจการราชราชราชราชราชราช	وكالمتعاطية المتسعيات ليصادر تجعارهم وحميل لمواريه الملاسم المتعاصل المتناما بالماحر والمساعد ومحاصف والمحمات الأخراف الأخواب	handa kasar yang di ribasi anda kasar da	برقد تعدينا فللمتعالم المعالمين والمترابع فيها تداولنا فالمتعالمين والمعاولات والمعاولات	ta an an suit a she an
p. 1	14B 2845 14B 2846		Striker Pin Assembly Spring		B , 1950 on	ţ
Pub. 1050,	ADH 457 ADA 459		Striker Pin Assembly		To B. 1949	Austin- Healey 100
Parts List Publication Number	Austin Part Number	Number per Vehicle	Description	Plate	Range	Туре
		A OLY	SCITAITAI AN A CE ZERLE BUNCK A BOLY			• When the second statement is a statement as well some statement in the second of the Statement

SUMMARY OF ALTERATION

	NECONUS			FOR
Published July 19, 1954	ALTERATIONS NOTED	PARTS ORDERED	STOCK CARDS	PARTS LISTS

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Issue 7

BODY

22

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NOOT STRIKER 100

Austin-Flealey

made wider to accept the new lock striker. plate has also been modified, the recess being packing plate for both right and left hand doors, has been introduced. A new door lock striker with tapped plate and The shut pillar face cover

INTERCHANGEABILITY

New and old parts are not interchangeable.

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SUMMARY	
OF	
ALTERATION	

	-		
Tapped Plates	Door Lock Strikers	Shut Pillar Face Cover Plate, right hand Shut Pillar Face Cover Plate, left hand Screws	Descriptic
× 2	2.	1 1 12	Number Off
*4G 7594 14B 2843 *54K 2777 RMP 0312	14B 1715 4G 7593	14B 1755 14B 1756 *6K 9627	Old Part
R 14	14B 2841 14B 2842	14B 2837 14B 2838	New Part
	Pub. 1050,	Pub. 1050, Body Shell, p. 1	Parts List Publication Number

*Not previously listed.

COMMENCING BODY NUMBER: 2236.

KECOKUS A		allOA	FOR	
ALTERATIONS NOTED	PARTS ORDERED	STOCK CARDS	PARTS LISTS	

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BODY

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24-CARS

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SIDE WINDOWS

Austin-Healey 100

New side windows of improved design are now being fitted; the lower half being made to open so that hand signals can be given when necessary.

INTERCHANGEABILITY

The new side windows can be used to replace their old counterparts, but should be supplied in pairs due to the difference in design.

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SUMMARY OF ALTERATION

	PWZ INA		2	
			د -	
	FNZ 103		N	Dain wachere
•	14B 2464	L	> N	Nuts
	-		>	fixed to door
2	-	14B 1876	2	weamerstrips
n 1		14B 1875	2	Wath Kubbers
Doore	-	14B 1880	1	Chaine Bold (16 perspex)
Pub. 1050		14B 1874	·	Side Window, right hand $(\frac{1}{16} \text{ perspex})$
	and the second	14B 1879		Side Window Frame, left hand
	manufactured	14B 1873		Side Window Flame, right hand
-	14B 2850	14B 1878		Side Window Prosentory, left hand
	14B 2849	14B 1872		Side Window Assembly, right hand.
Type and Parts List Publication Number	New Part	Old Part	Number Off	Description

FOR PARTS LISTS YOUR STOCK CARDS RECORDS PARTS ORDERED ALTERATIONS NOTED

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31 BODY

Issue 8	VOI UME						Healey 100 B.			Туре	-	A combined facia been introduced for adjustable steering g panel is incorporated of being a separate pa		H M
	2.4CARS	• .	. · ·	• •		sy je be na na na v i Bill Kristi prije je na voj primov prije je na na na v je kriste krij	B.1855 on	B.1001-1854		Range	- - -	and cars cars in th art as		
ſ	RYE									Plate	7 •	instrument fitted with The new e facia pan hitherto.	M	GNW
Printed in England, September 20, 1954	FOR YOUR RECORDS ALTERATIONS NOTED					* Omitted from Parts List.	Facia and instrument panel (less instruments) R.H. Steering Facia and instrument panel (less instruments) L.H. Steering	(less i c) hers .	*Facia panel, R.H. Steering *Facia panel, L.H. Steering *Instrument control panel	Description	SUMMARY OF ALTERATION	The ne panel is cars with	Austin-Healey 100	INSTRUMENT
	,	-	•					~ ~ ~ ~ ~		Number per Vehicle		(TERCHAN combined ly interchan non-adjust		
•		ئ ـ			 	• •	14B 2874 14B 2875	4B 2114 14B 2745 53K 2636 2K 1209	14B 3542 14B 3543	Austin Part Number		INTERCHANGEABILITY w combined facia and i only interchangeable when the non-adjustable steering g		PANEL
	вору		···· ·					Pub. 1050, Body Shell, p. 2		Parts List Publication Number		Y instrument en fitted to g gear.		

نىن نوبا new fixings. welded to the hole in the tunnel floor. the rubber plug over the transmission lubricating A2S4 AS.4 A2S4 AS.4 Туре Two Austin-Healey the new road springs. part number 4B 1041, has been modified to accept ducing new rear springs, Further to the article appearing in this Journal, Volume 24, section "Suspension", page 8, intro-ducing new rear springs, the rear end assembly, BODY A cover plate has been introduced; this replaces Туре 100 holes have B.22095 on . B.407670 on To B. 22094 To B.407669 JE NYRE To B. 1952. B. 1953 on . Range underside of the floor Range been REAR drilled and two nuts YOUR RECORDS FOR Plate × Parts List should be amended to read 3. Plate TUNNEL SUMMARY OF Plugs for centre tunnel Cover plate SUMMARY OF ALTERATION Plugs for centre tunnel Austin-Healey 100 to accept Rear end assembly Rear end assembly END STOCK ALTERATIONS NOTED PARTS ORDERED PARTS LISTS Description Description A 30 CARDS ALTERATION drilled. the plug, providing the tunnel floor is ASSEMBLY The new cover plate replacements of the old type. COVER The new rear end assembly can be used for INTERCHANGEABILITY Number Vehicle INTERCHANGEABILITY Number ؿ Vehicle per - 2 per 4G 1851 14A 2876 Number 4G 1851 can be used to replace 4B 1052 Austin 4B 1041 PL W TE Part Number VOLUME Austin Part Pub. 883B/1 Publication Number 24-Parts List p. 17 Body Shell, Publication Pub. 1050, Number Parts List suitably ġ ___

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Published October 25, 1954

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Issue 11

COMMENCING BODY NUMBER: 4129

A new steel type boot lid is now being fitted in place of the aluminium type fitted hitherto. The part number, 4B 1039, remains unchanged. The steel boot lid is interchangeable with the aluminium one.

Austin-Healey 100

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тери түрээл, хэрэмулдараас (Сон'я нигээ ниросли илин бүүл үрэн цахаа	GV.4) A 40 Country- man (GP.3 and GP.4)		Country- man (GP.3 and GP.4) B			A 40 Tr Country- man (GP.3	Туре
MO *	B.21331 on B.8400 on	To B.21330 To B.8399	B.8400 on	То В.8399 (B.8400 on	То В.8399	Range
t previo							Plate
* Not previously listed. Add after item 3 in Parts List.	Self Tapping Screws	Woodscrews	Rear Floor Assembly	Rear Floor Assembly	Rear Floor Assembly, outer, right hand Rear Floor Assembly, outer, left hand Self Tapping Screws	Rear Floor Assembly, outer, right hand Rear Floor Assembly, outer, left hand Self Tapping Screws	Description
n Parts Lie	თ	5	,	1	14 1	1	Number per Vehicle
¥ L .	6K 9473	*5C 58	4G 3218	4G 1124	4G 3082 4G 3083 6K 9640	4G 2242 4G 2243 6K 9542	Austin Part Number
	Equipment, p. 8	Pak 1000	Pub. 1099, Floor, p. 4		ç 3	Pub. 1099, Floor,	Parts List Publication Number

SUMMARY OF ALTERATION-continued

FLOORBOARDS—continued

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BODY 36

PR

30, A. 40, A. REAR REFLECTORS , 70, Austin-Healey 100

All vehicles are now being fitted with rear reflectors to comply with the new lighting regula-tions. The A 40/A 50 Cambridge does not require

A

separate reflectors as a reflex reflector which complies with the new regulation is incorporated in the stop and tail lamp.

Austin- Healey 100	A 30 A 40 A 70	Туре
•		Range
		Plate
Mounting for right hand rear reflector Mounting for left hand rear reflector Rubber slippers for mountings Screws, mountings to body and reflec- tors to mounting Spring washers	Screws, reflectors to body Nuts for screws Washers for screws	te Description P
6 2 1 1	2 2 2 2	Number per Vehicle
14B 3867 14B 3868 14B 3869 PMZ 0308 2K 8232	PMZ 0308 FNZ 103 2K 8232	Austin Part Number 2A 9001
Pub. 1050, Electrical, p. 5	Electrical, p. 5 Pub. 1099, Electrical, p. 28 Pubs. 730, p. 57 853, p. 57	Parts List Publication Number Pub. 883B,

SUMMARY OF ALTERATION

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	a fallan mananan kanang kanang kanang manang kanang kanang kanang kanang kanang kanang kanang kanang kanang kan	RECONDO			NON
mathed October 35 1054	A substantion of the second	ALTERATIONS NOTED	A COM PARTS ORDERED	STOCK CARDS	PARTS LISTS

BODY

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YOUR FOR RECORDS ALTERATIONS NOTED PARTS ORDERED STOCK CARDS PARTS LISTS Spring washers Nuts Plain washers Spring washers Recessed head **Plain** washers screws 444 Ą 4 ð -51K 2636 2K 1209 **FNN 103** 2K 120

Healey Austin-100 Туре B.3052 on To B.3051 Range Plate Battery access panel Battery access panel Nuts Hinge Recessed head Spring washers Nuts Plain washers Recessed Hinge screws screws Description . head Vehicle Number per. 2 PMZ 0306 FNZ 103 PWZ 103 LWZ 103 FNZ 103 PWZ 103 LWZ 103 14B 3500 PMZ 0306 4B 1232 Number 4G 2847 4B 1232 Austin Part Fub. 1050, Body Shell, Fub. Publication Number **Parts** List p. 1

BA BA X. M. H. L. L. NLLSDY SERVICE JOURNAL N C C H S S PANEI

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Austin-Flealey 100

welding washers have been introduced to suit. The hinges of the battery access panel are now fixed with recessed head screws instead of spotas hitherto. Additional screws and

INTERCHANGEABILITY

The old and new type battery access panels are interchangeable, the new type hinge can be used to replace the old type providing the panel is suitably drilled.

SUMMARY OF ALTERATION

39 BODY

R

REAR SEAT A 40 Somerset CUSHION FIXING

The fixing of the rear seat cushion has been improved by increasing the size of the holes in the seat pan and fitting larger diameter grommets.

INTERCHANGEABILITY The new type grommet can only be used with the modified seat pan.

SUMMARY OF ALTERATION

A 40 (GS.4)	Туре
To B.780700 B.780701	Range
	Plate
Grommets for rear cushion assembly Grommets for rear seat pan	Description
2 2	Number per Vehicle
2H 1889 14G 3654	Austin Part Number
Pub. 1099, Seats, p. 5	Parts List Publication Number

FRONT END Austin-Healey ASSEMBLY 100

ing new rear springs, the modifications to the floor Further to the article appearing in this Journal, Volume 24, section "Suspension", page 8 introducpanels has necessitated a change in part number for the front end assembly.

INTERCHANGEABILITY

replacement of the old type. The new front end assembly can be used for

SUMMARY OF ALTERATION

Туре
Range
Plate
Description
Number per Vehicle
Austin Part Number
Austin Part Number Number

	CARS			
	KECOKDS		AULON NO.	RUB
Published October 25, 1954	ALTERATIONS NOTED	PARTS ORDERED	STOCK CARDS	PARTS LISTS

BODY 40

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FOR YOUR RECORDS PARTS LISTS ALTERATIONS NOTED STOCK CARDS PARTS ORDERED

New door hinges and check strap assemblies of improved design have been introduced to facilitate production. This has necessitated modifications to the door hinge pillars on the front end assembly and the hinge pillars on the doors. SUMMARY OF ALTERATION

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FRONT

END

ASSEMBLY

Austin-Healey 100

New and old parts are not interchangeable.

INTERCHANGEABILITY

			Austin- Healey 100		Туре
B.5001 on	B.21-5000	B.5001 on	B.215000	B.19535000 B.5001 on	Range
\sim					Plate
Door check assembly, right hand Door check assembly, left hand .	Door check assembly, right hand Door check assembly, left hand .	Door shell, right hand	Door shell, right hand Door shell, left hand	Front end assembly Front end assembly	Description
	Juna para	164482222	4440424111111	2007 - 2009	Number per Vehicle
14B 3733 14B 3734	14B 1731 14B 1732	4B 1075 4B 1076 14B 3730 14B 3731 14B 3732 2K 9020 51K 1138 51K 1138 51K 1138	4B 1034 4B 1035 14B 1982 14B 1982 14B 1983 14B 1985 14B 1986 8D 768 8D 768 8JIK 1228 5IK 1228 5IK 1228 5IK 1228 4BN 0408 PWN 104 2K 1210	4B 1051 4B 1074	Austin Part Number
	· · · · ·		Pub. 1050, Doors, p. 1	Pub. 1050, Body Shell, p. 1	Parts List Publication Number

2 BODA

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TONNEAU Austin-Healey 100 COVER

A new tonneau cover assembly of improved design has been introduced. This is wider and has improved fastenings at the corners to ensure that there is no possibility of water entering the cockpit.

INTERCHANGEABILITY

with the old one due to the fastenings being redesigned. The new tonneau cover is not interchangeable

SUMMARY OF ALTERATION

Hood, p. 1	4B 2189	4B 2133 4B 2189		Tonneau cover assembly, L.H. Steering .
Pub. 1050,	4B 2188	4B 2111 4B 2188	_	Tonneau cover assembly, R.H. Steering 1 4B 2111 4B 2188 Pub. 1050,
Number	Part	Part	Ōſſ	Description
List Publication	New	Old	Number	
Parts		ara (s) (s, 1) (sa s Lon (sa gara) gara) garang tang tang tang tang tang tang tang t		Parts
n de la calega de la calega en la calega de la				

Commencing Body Number: 4606

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YOUR FOR

RECORDS

PARTS ORDERED STOCK CARDS PARTS LISTS

ALTERATIONS NOTED

Published November 29, 1954

	1 14B 2632 1 54K 2776 2 53K 325 2 6K 9695 2K 1209 BODY NUMBER: 3800	of bracket trol and facia Add to Parts List.	*Not previously li
	2632 2776 209 209 3800	of bracket trol and facia Add to Parts List. Commencing	*Not previously listed.
	2632 2776 325 209 209 3800	of bracket trol and facia Add to Parts List.	*Not previously li
		of bracket trol and facia 	*Not previously li
		b) bracket trol and facia 	*Not previously li
		facia	"opring washers
2 1 1 3 Body Shell, p. 2		ng mirror attachment	Facia and driving mirror atta bracket
Parts List Publication Number	Old New Part Part	Description Number Off	Desc
	ALTERATION	SUMMARY OF 2	na mang mang mang mang mang mang mang ma
ate for the driving mirror has been modified to used in conjunction with the driving mirror tachment bracket. INTERCHANGEABILITY The new and old parts are not interchangeable.	plate for the driving mirror has been m be used in conjunction with the drivin attachment bracket. INTERCHANGEABILITY The new and old parts are not interch	To simplify the fitting of the driving mirror and to permit adjustment of the facia panel, the bonnet remote control and facia support bracket has been dispensed with in favour of two separate brackets, one for the facia and driving mirror, and the other for the bonnet remote control. The tapped	To simplify the fitting of the drivin to permit adjustment of the facia pane remote control and facia support braa dispensed with in favour of two sepai one for the facia and driving min other for the bonnet remote control.
	01	Austin-Healey	. ••
	ROR FIXIN	DRIVING MIRRO	

OK.

SAN OGINIIAN

Mustin-Healey 100

The new side windows introduced in this Journal, Volume 24, section "Body", page 31, can now be serviced in "breakdown" form. All serviceable parts have been given separate part numbers and are itemised below.

san waar a falan kinooning kiininaa		are la Sirve e route e la constant de la constant d	Nun	Number	Austin
Туре	Range	Plate	Description	per Vehicle	Part Number
			Side screen frame assembly,		
·			side screen frame assembly	_	14B
			left hand		14B
			Fixing brackets, front	2	14B
			Nuts for fixing bracket	4	FNZ
		-	Plain washers	\$	PWZ 203
	-		Fixing brackets, rear	2	14B 3516
			Nuts for fixing bracket	4	FNZ 103
			Plain washers	\$	PWZ 203
			\sim		
			complete with side window		
			and flap panels, right hand	ga an k	14B
			Side screen cover assembly		
			complete with side window		
Austin-			and flap panels, left hand .		14B
Healey			Side window panels	2	14B
100			Signalling flap panels	2	14B
			Fastener		14B
			Beadings, bottom rail	2	14B
			Fixing screws	8	14B
			Shouldered nipples	8	14B
			Beadings, front rail	2	14B
	-		Fixing screws	6	14B
			Shouldered nipples	6	14B
		~	Beadings, middle rail	2	14B
			Fixing screws	8	14B
			Shouldered nipples	8	14B
			Beading, main rail, right hand	Ţ	14B
			Fixing screws	6	14B
			Shouldered nipples	6	14B
			Beading, main rail, left hand	<u> </u>	14B
			Fixing screws	6	14B
			Shouldered nipples	6	IAB

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PARTS LISTS STOCK CARDS

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ALTERATIONS, NOTED PARTS ORDERED

BODY 46

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RODA 67

FOR PARTS LISTS YOUR STOCK CARDS RECORDS PARTS ORDERED ALTERATIONS NOTED
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Issue AOLOME 14 24 -CARS

Austin-Healey Type 100 Not previously listed. B.21-5745 Range Plate Add to parts list. Asbestos covering, pedal box, inner, left hand Asbestos covering, Asbestos covering, pedal box front, left hand, upper pedal box, front lower Description left left hand, hand per Vehicle *14B *14B *14B 2737 Austin Part Number 2740 2739 Floor Fittings, Publication Number Pub. 1050 Parts List p. 1

SUMMARY OF **ALTERATION**

Number

All the new parts can be fitted to existing models.

with a scaling compound. The spring clip secur-ing the pipe, supply tank to master cylinder, has been replaced by a new clip secured to the pedal box by means of a screw, nut and washer.

gearbox cover extension panel, and is fixed with A rubber heat deflector has been fitted to the external surface of the pedal box has been covered and underfelt has been extended to the edge of the following modifications have been carried out and The salkaid floor insulation also the whole of the extension panel.

in the driving cockpit in overseas territories, the As a result of excessive heat being experienced seats on top of the clutch housing. cover is sealed with a section of seven rivets, so that the lower edge of the deflector

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RIVING

COCKPIT

Austin-Healey 100

sponge rubber gearbox cover The gearbox

Finally a longer air intake hose A sealing ring has also been has been fitted

fitted to the gear lever grommet. secured with adhesive behind the

with its forward end secured with a clip to the extreme right hand bolt of the radiator grille thereby drawing in a much greater volume of

INTERCHANGEABILITY

cold air.

notch for the accelerator shaft have been sealed

with asbestos panels. The slots either side of the

floor and pedal boards,

proved successful.

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Continued

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	r					•								· · · ·	
			. ·				Austin- Healey 100								Туре
Not previously listed.			B.5746 on				B.21 on	TERMINAN BERGER KAN BER				B.21-5745 <			Range
Add to j								1991							. Plate
Add to parts list.	Screws for asbestos panels. Nuts Plain washers Spring washers	Asbestos covering, pedal box, top left hand, rear .	Asbestos covering, pedal box, top left hand, front.	Asbestos covering, pedal box, inner left hand	Asbestos covering, left hand, pedal box, front, left hand, lower	Asbestos covering, pedal box front, left hand, upper .	Asbestos covering, right hand pedal box, front, left hand, lower	Insulations, floor	Underfelt, front carpet, left hand .	Underfelt, front carpet, right hand	left hand front, L.H. Steer- ing	Underfelt, pedal box carpet, right hand front, L.H. Steering	Underfelt, pedal box carpet, left hand front, R.H. Steer- ing	Underfelt, pedal box carpet, right hand front, R.H. Steering	Description
	1444			<u> </u>	juuna.			2				•)	-	Number per Vehicle
ייינער עריקט אינערטער אין איינערער איין איינערערערערערערערערערערערערערערערערערערע	PMZ 0310 FNZ 103 53K 3151 LWN 203		14B 3878	14B 3877	14B 3876	14B 3875	*14B 2738	*14B 2885	*14B 2723	*14B 2722	*14B 2732	*14B 2731	*14B 2753	*14B 2752	Austin Part Number
Continued		, ,	Pub, 1050 Floor Fittings, p. 1			%						Pub. 1050 Floor Fittings (Carpets), p. 1			Parts List Publication Number
							£.			•		\sim			

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DRIVING COCKPIT—continued SUMMARY OF ALTERATION—continued

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				-			-		Silipia desente constante constante	·····			•	<u>.</u>
						100	Austin- Healey							Туре
	C.219385 on	C.138031- 219384	B.5746 on	B.21 on	B.5746 on {	B,215745 {				B.5746 on				Range
						and an a later state of the second	distribution warms							Plate
	Clip for pipe . <	Spring clip for pipe	Sealing ring, gear lever grom- met	Grommets for outlet pipes through dash	Flexible hose, air intake Clip	Flexible hose, air intake Clip	Insulation, floor	Underfelt, pedal box carpet, left hand, front, L.H. Steer- ing	Underfelt, pedal box carpet, right hand, front, L.H. Steering	Underfelt, pedal box carpet, left hand, front, R.H. Steer- ing	Underfelt, pedal box carpet, right hand, front, R.H. Steering	Underfeit, front carpet, left hand	Heat deflector	Description
		1	· · · · · · · · · · · · · · · · · · ·	2	<u> </u>	<u>سر</u> ۰	<u> </u>	 .			<u> </u>	<u> </u>		Number per Vehicle
SUCTIVE REFERENCES IN CONSIGNATION OF THE ACCURATE OF THE ACCU	3H 2879 PMZ 0308 FNZ 103 PWZ 103	2K 8932	14B 3889	2H 2816	14B 3887 14B 3888	14B 2749 14G 800	14B 3886	14B 3885	14B 3884	14B 3883	14B 3882		14B 3789 2K 2342 PWZ 202 14B 3870 14B 3880	Austin Part Number
ינסייטן איז איז איז איז איז איז אונאיזעערעע איז איז אונאיזעערעע איז	Pub. 1050 Brake Pipes, p. 1	-	Pub. 1050 Body Equipment, p. 1	n we have a subscription of the	n uc. 1050 Heater, p. 1	D.1.5 1060				Pub. 1050 Floor Fittings (Carpets), p. 1			Pub. 1050 Floor Fittings p. 1	Parts List Publication Number

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AUSTIN SERVICE JOURNAL

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DRIVING COCKPIT--continued

SUMMARY OF ALTERATION-continued

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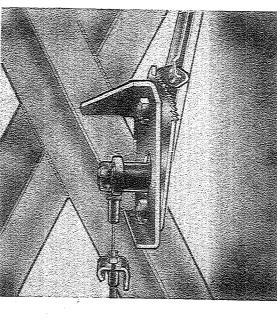
D ALL COLUMN

BODY 55

NDBRAKE **J**FVJ HR

Austin-Healey 100

old one except for a longer fulcrum pin on the are used to secure the new handbrake illustrations for comparison. lever and a longer boss on the ratchet plate--shaft tunnel. between the handbrake lever and the introduced to increase new handbrake lever assembly has been The new lever is identical with the the operating clearance Longer fixing screws propeller in consee



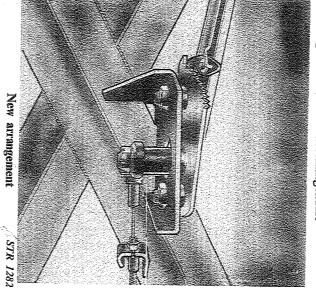
Old arrangement

STR 128

body. long), which fit between the ratchet plate and the junction with two distance pieces $(\frac{3}{8})^n$ (9.52 mm.)

INTERCHANGEABILITY

ratchet plates are not interchangeable. S longer screws and the distance pieces, can be used The new handbrake assembly, together with the replace the old one. The handbrake lever



SUMMARY ğ ALTERATION

	ATAAAAA A	W UNIVERSAL AND AND A MARKED AND A AND AND	ACTA	
	a krade kunder of a feature of the second	And an and a subsection of the second second second second	Anoppower of the post of the second se	19-10-10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
Description	Number Off	er Old Part	New Part	
Handbrake Lever Assembly Setscrews to body	2 1	1B 8769	1B 8893 1B 8893	
Setscrews to body	2	1B 8859	1B 8895	>

Ratchet Plate with boss Distance Pieces, lever to body

NN

18

8893 8895 8896 5926

Austin-Healey 100

Type

HI,

5925

Hζ

COMMENCING CHASSIS NUMBERS:-

R.H. Steering -

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149950

••

L.H. Steering -

149903

2

BRAKES

FOR YOUR RECORDS

STOCK

CARDS

PARTS LISTS

ALTERATIONS NOTED

VOLUME

24-CARS

- 5

PARTS ORDERED

VOLUME 24-CARS YOUR FOR RECORDS PARTS ORDERED STOCK CARDS Published January 24, 1955 ALTERATIONS NOTED PARTS LISTS **BRAKES 6** STR 1525

Issue IS

7HI825 0121

INTERCHANGEABILITY

the circumference of the drum. The new alfin brake drums, part number 7H 1825, are of par-ticular benefit when the car is to be driven hard or raced. They should be fitted in pairs, either front or rear to preserve even expansion of the brake drums as they become heated in use.

cooling fins instead of annular grooves around

the circumference of the drum.

The alfin brake drums, which are available as an optional extra, have been replaced by ones of improved design. The new drums have lateral

ATTIN

BRAKE

DRUMS

Austin-Healey '100'

AUSTIN SERVICE

JOURNAL

earlier drums, part number 7H 1719. The new alfin brake drums, part number 7H 1825, can be used in pairs to replace the

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	JOURNAL

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BRAKE PIPES

Austin-Healey 100

New brake pipes having U.N.F. tube nuts have been introduced. The tube nuts on the new pipes have slightly smaller hexagons than the old ones. They are interchangeable separately with the original pipes which had A.N.F. threaded nuts.

INTERCHANGEABILITY

The new pipes will be supplied for replacements of the old ones.

	•		• •		A CARC	VOLUME JALLARS
•			P DC PARTS ORDERED	RECORDS		
				YOUR		
			PARTS LISTS	FOR		
Continued		-				
	1G 7357		brake			
			tion on axle to left hand		-	
-			Brake Pipe, 3-way connec-			
•	1G 7355		hand brake			
			tion on axle to right			
		· ·	Brake Pipe, 3-way connec-			
	3H 1873	<u> </u>	axle for brake pipes			
		,	3-way connection on rear			
	1R 8866		tion to rear brake hose.			
	7100 011		Brake Pipe, 5-way connec-			
	IR 8877					-
			master cylinder, L.H.		-	
-		•	Brake Pipe, supply tank to			
. p. ,	IR 8868					
blace ripes,			master cylinder, R.H.			100
Braka Dipor		•	Brake Pipe, supply tank to		C.138031-156813	Healey
P. 4 1050	1R 8870		L.H. Steering			Austin-
-			der to 5-way connection,			
			Brake Pipe, master cylin-		ŝ	
-	1B 8860		R.H. Steering		•	
		•	der to 5-way connection,			
			Brake Pipe, master cylin-			-
	1B 8875	,	5-way Connection			
	TR 8864		brake hose		-	
			tion to left hand rear			
		•	Brake Pipe, 5-way connec-			-
	1R 8863		brake house		-	
			tion to right hand front	·······		
			Brake Pipe, 5-way connec-			
	6K 31	ω	Nuts for hoses		-	
	1B 8874	3	Flexible Brake Hoses			
Number	Number	venicie				
Publication	Part	per	Description	Fiale	Nango	odf.
Parts List	Austin	Number		Diato	Ranna	Type
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SUMMARY OF ALTERATION

BRAKES 7

Issue 8

Published September 20, 1954

				<u>,</u>			100	Austin-							Туре	
C.156814 on	C.1308031- 156813	<u></u>	•					C 156814 on							Range	
															Plate	MMUS
Master Cylinder Assembly with screwed push rod . Supply Tank	Master Cylinder Assembly with screwed push rod . Supply Tank	Brake Pipe with nuts, 3- way connection on axle to left hand brake	Brake Pipe with nuts, 3- way connection on axle to right hand brake	3-way connection on rear axle for brake pipes	Brake Pipe with nuts, 5- way connection to rear brake hose	Brake Pipe with nuts, sup- ply tank to master cylin- der, L.H. Steering	Brake Pipe with nuts, sup- ply tank to master cylin- der, R.H. Steering	Brake Pipe with nuts, mas- ter cylinder to 5-way con- nection, L.H. Steering .	Brake Pipe with nuts, mas- ter cylinder to 5-way con- nection, R.H. Steering	5-way Connection	Brake Pipe with nuts, 5- way connection to left hand front brake hose	Brake Pipe with nuts, 5- way connection to right hand front brake hose.	*Locking Plate, rear hose to bracket	Flexible Brake Hoses Nuts for hoses	Description	SUMMARY OF ALIERALIUNcontinued
	· •)		,,			jamak			 				ယယ	Number per Vehicle	пиписи
1B 8927 1G 9501	3H 1842 3H 920	1B 7397	IB 7396	2A 5346	1B 8922	1B 8925	IB 8923	1B 8924	1B 8919	1B 8926	1B 8921	1B 8920	1B 8965	2A 7227 FNZ 106	Austin Part Number	and the second
	Pub. 1010, Controls,					· · ·	Pub. 1000, Brake Pipes, p. 1								Parts List Publication Number	
	 				- 	•.		Per formation of a second		•			•	- - -	۰ ۰	

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CONTROLS

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YOUR FOR RECORDS ALTERATIONS NOTED PARTS ORDERED STOCK CARDS PARTS LISTS Published July 19, 1954

VOLUME 24 -CARS

Issue 7

			· ·
100	Austin- Healey	Туре	
R.H.S., C.148528 on L.H.S., C.148529 on	R.H.S., C.138975–148527 L.H.S., C.138031–148528	Range	
÷.		Plate	JS
Control rod, $10\frac{1}{4}$ " long, pedal shaft lever to relay lever	Control rod, $10\frac{7}{8}$ " long, pedal shaft lever to relay lever (use 2K 8277)	Description	SUMMARY OF ALTERATION
		Number per Vehicle	NC
2K 8277	1B 2696	Austin Part Number	·
Controls, p. 1	Pub. 1050,	Parts List Publication Number	•

the accelerator pedal shaft lever and the relay To facilitate assembly, the control rod between been reduced in length from 10%" INTERCHANGEABILITY

Austin-Healey

100

permit the shorter rod to be used for replace-There is sufficient adjustment obtainable to

ments of the longer one.

of the bearings on the toeboard for the accelerator

shaft has been raised by a similar amount.

(27.62 cm.) to $10\frac{1}{4}$ " (26.03 cm.) and the position

lever,

has

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AUSTIN SERVICE JOURNAL

PELERATOR

CONTROL

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		^{т.} такура		
FOR YOUR Issue 2 YOUR	Description Engine Rear Plate	SUM		EIVGINE REAR PLA Austin-Healey 100, A 70 Inted to the A 70, has been modified by deleting the outer boss and hole A at the starter motor fixing face (see illustration). The gearbox casing integent to the tage of tage of tage of tage of the tage of the tage of tage o
	Number Off	SUMMARY OF		Healey Hal on theting theting casing
PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED Published February 15, 1954	Old Part 1F 1332	A 70 Sc P ALTER	The new also the m Com	AR P 7 100, 7 100, 7 has been al plate althou The earth by a bolt a lower bolt a
GET	New Part 1B 2842	A 70 Saloon, R.H. Steering - L.H. Steering - Pick-Up, R.H. Steering - L.H. Steering - Countryman, R.H. Steering	INTERCHANGEABILITY The new rear plate can be used for rep also the modified gearbox casing. COMMENCING ENGINE NUMBERS:- A 70 Saloon Pick-Up Countryman	REAR PLATE ealey 100, A 70 lon has been altered to accon also plate although there is no c thing The earthing cable, whit otor by a bolt at this point, h lower bolt securing the ge
ENGINE	Type and Parts List Publication Number A 70 Pubs. 780A, p. 3, 853, p. 3	ag – 148304 ng – 148307 ng – 148319 ing – 148428 Steering – 148459	INTERCHANGEABILITY The new rear plate can be used for replacement, so the modified gearbox casing. COMMENCING ENGINE NUMBERS:	AR PLATE A 100, A 70 has been altered to accommodate the modified plate although there is no change in part number. The earthing cable, which was originally fixed by a bolt at this point, has been moved to the lower bolt securing the gearbox to the mounting plate.

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AUSTIN SERVICE JOURNAL

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GINE

65

SOLUBLE MI 'II0 WATER COOLING SYSTEM

Soluble oil is often added to the water cooling system to reduce wear of the water pump seal and to eliminate the scratching sound which may emanate from wear.

The presence of too much soluble oil, however, can have a detrimental effect on the rubber diaphragm fitted to the heater water valve.

Tests have shown that the permissible quantity of soluble oil added to the water cooling system must on no account exceed $2^{\circ}/_{0}$.

The water capacity, and the permissible quantity of soluble oil, for the various types of vehicles is given below.

8 Fluid ozs. (Approx. ² / ₅ pint)	20 pints	Austin-Healey 100
11.2 Fluid ozs. (Approx. $\frac{3}{5}$ pint)	28 pints	A 125, A 135
7.6 Fluid ozs. (Approx. $\frac{2}{5}$ pint)	19 pints	A 70 & A 90
5.6 Fluid ozs. (Approx. $\frac{1-1}{3-4}$ pint)	14 pints	A 40 (GD.2 & GD.3)
4.8 Fluid ozs. (Approx. $\frac{1}{4-5}$ pint)	12 pints	A 40 (GS.3 & GS.4)
3.4 Fluid ozs. (Approx. $\frac{1}{6}$ pint)	8½ pints	A 30
Permissible quantity of soluble oil (maximum)	Water Capacity	Model

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ENGINE

VOLUME

24

-CARS

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FILTER ADAPTOR

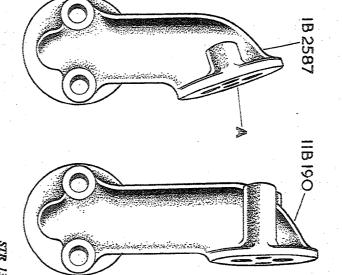
Austin-Healey 100

to prevent any possibility of the oil filter fouling the engine mounting bracketbeen altered to move the oil filter farther away from part number 1B 2587, but the angle of face A has part number 11B 190, the engine mounting bracket. A new oil filter adaptor has been introduced racket. The new adaptor, is similar to the old one, -see illustration.

new cover requirements in their territory, quoting part and distributors and dealers are requested to place orders immediately for sufficient new parts to that the old oil filter adaptor is replaced with the numbers. to the replace the ones used to fix the original adaptor Two new setscrews, part number 2K 3174, one at the earliest possible convenience, oil filter . It is strongly recommended

INTERCHANGEABILITY

The new adaptor together with the new set-screws should be used for replacements of the old one.



STR 1394

SUMMARY OF ALTERATION

	, 	
	BN.1	Туре
E.213325 on	E.136894-213324	Range
Adaptor for oil filter Setscrews to oil filter	Adaptor for oil filter (use 11B 190 with 2K 3150 setscrews) Setscrew, long, adaptor to oil filter Setscrew, short, adaptor to oil filter	Description V
12	معمر مسر مسر	Number per Vehicle
11B 190 2K 3174	1B 2587 2K 3175 2K 3167	Austin Part Number
	Pub. 1050, Engine, p. 16.	Parts List Publication Number

		י מרי מרי	7	FOR P.	
Published May 10 1954	ALTERATIONS NOTED	PARTS ORDERED	STOCK CARDS	PARTS LISTS	وسيستعمل والمرابع والمرابع والمرابع والمحمول والمرابع و

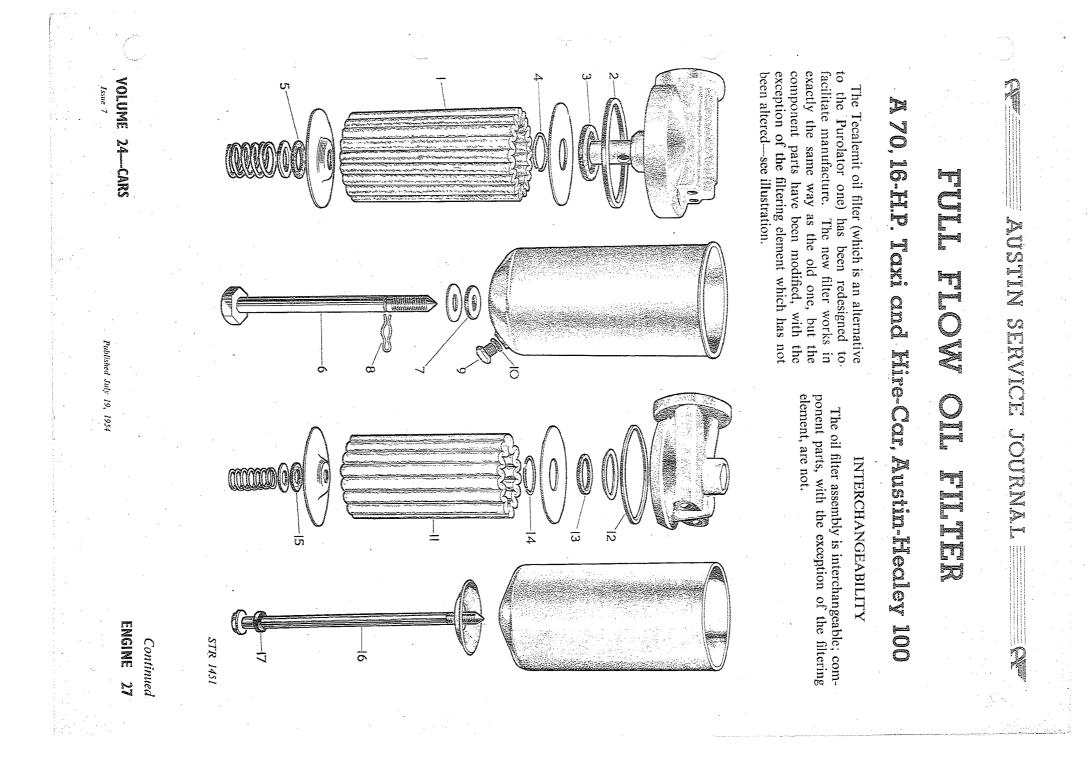
VOLUME 24-CARS

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ENGINE Ž

ENGINE			BNI	Туре	Service and a service of the service	Carb can be it is es	The fuel con has been impr modified taper.		A
		R.H.S. C.148987 on L.H.S. C.148937 on	R.H.S. To C.148986 L.H.S. To C.148936	Range		fitted with t ed, but to pr to replace	The fuel consumption on the Austin-Healey 100 has been improved by fitting a new needle with modified taper.		an V
FOR PARTS LISTS YOUR STOCK CARDS RECORDS PARTS ORDERED ALTERATIONS NOTED		Jet Needles, Q.W.	Jet Needles, A.H.2 (use 7H 1706)	Description	SUMMARY OF ALTERATION	The	·	ZARBURETTER Austin-Healey	AUSTIN SERVICE JO
		2		Number per Vehicle	NON	INTERCHAN modified needle nents.	The in uncl	NEEI 100	JOURNAL
VOLUM		7H 1706	7H 1677	Austin Part Number		(GEAB will	part numbers tanged.		
E 24CARS		Engine, p. 15	Pub. 1050,	Parts List Publication		ILITY be supplied for	rs of the carbu-		



Q

FULL FLOW OIL FILTER—continued

Austin- Healey 100 Taxi Hire-Car A 70 Pick-Up A 70 Saloon and Countryman	Austin- Healey 100 Taxi Hire-Car A 70 Pick-Up A 70 Saloon and Countryman	Туре
E.207112 on E.206160 on E.138210 on E.208589 on E.207800 on	E.136894- 207111 E.17800- 2.06159 E.25001- E.132001- E.132001- 208588 E.101- 207779	Range
11 12 13 14 13 14 15 16 17		Plate
Oil filter, Tecalemit Filtering element Sealing ring, synthetic rubber container to head Felt washer, element clamping plate to head Circlip for clamping plate Felt washer for ele- ment pressure plate. Centre bolt Sealing washer, syn- thetic rubber, for	Oil filter, Tecalemit Filtering element Sealing ring, synthetic rubber, container to head Felt washer, element clamping plate to head Circlip for clamping plate Felt washer for ele- ment plate Sealing washer, syn- thetic rubber for centre bolt Hair pin spring for bolt Fibre washer for plug	Description
Alternative to 3H 1287	Alternative to 3H 1287	
		Number per Vehicle
1B 2897 2H 4340 7H 1755 7H 1756 7H 1756 7H 157 7H 157 7H 157 7H 1758 7H 1762 7H 1759	2H 4339 2H 4340 7H 155 7H 155 7H 156 7H 157 7H 159 7H 152 7H 152 7H 163 7H 163	Austin Part Number
A 70 Saloon Pub. 780A, p. 17 A 70 Pick-Up Pub. 853, p. 16 p. 16	Austin- Healey 100 Pub. 1050, Engine, p. 16 16-H.P. Taxi Pub. 558A, p. 15 16-H.P. Hire-Car Fub. 728, p. 14	Parts List Publication Number

SUMMARY OF ALTERATION Ś

VOLUME 24-CARS

ACC NO. 28

ENGINE

P

PRESSURE JOUYD PIPE

Austin-Healey 100

A modified oil pressure gauge pipe has been introduced (for left hand steering cars only) to used to secure the pipe. facilitate assembly, and an additional clip is also

INTERCHANGEABILITY

The new pipe can be used to replace the old one.

SUMMARY OF ALTERATION

				·					
		Healey 100					туре	T	
C.149983 on		C.138031- 149982		C.149983 on	149982	C 138031-	Manes	Dange	
							,	Plate	ne en la regación de la compañía de
Clips, pipe to dash, L.H. Steering.	Screw for clip	Clip, pipe to dash, L.H. Steering.	L.H. Steering	Oil pressure pipe with union nut and nipple,	union nut and nipple, L.H. Steering	Oil pressure pipe with	nan na an	Description	والمراجع المراجع المراجع والمراجع
2							Vehicle	Number	and designed and and and store and and store and
2K 5215	6K 9897	2K 5215	1B 2963		1B 2740		Number	Austin Part	
	. .	Engine, p. 16	Pub. 1050,		-		Number	Parts List Publication	
	Clips, pipe to dash, L.H. Steering	Screw for clip 1 Clips, pipe to dash, L.H. 2 Steering. 2	C.138031 149982 Clip, pipe to dash, L.H. Steering. 1 2K 5215 C.149983 on Clips, pipe to dash, L.H. Steering. 1 6K 9897	C.138031- 149982 Clip, pipe to dash, L.H. Steering. 1 1B 2963 1 C.138031- 149982 Clip, pipe to dash, L.H. Steering. 1 2K 5215 1 C.149983 on Clips, pipe to dash, L.H. Steering. 1 6K 9897 1	C. 149983 onOil pressure pipe with union nut and nipple, L.H. Steering11B 2963C. 138031- 149982Clip, pipe to dash, L.H. Steering12K 5215Screw for clip16K 9897C. 149983 onClips, pipe to dash, L.H. Steering16K 9897	149982union nut and nipple, L.H. Steering11B2740C.149983 onOil pressure pipe with union nut and nipple, L.H. Steering11B2740C.149983 onClip, pipe to dash, L.H. Steering11B2963C.149983 onClips, pipe to dash, L.H. Steering16K9897C.149983 onClips, pipe to dash, L.H. Steering16K9897	C.138031- 149982Oil pressure pipe with union nut and nipple, L.H. SteeringI1B2740C.149983 on 	NumberVehicleNumberC.138031- 149982Oil pressure pipe with union nut and nipple, L.H. Steering11BC.149983 onOil pressure pipe with union nut and nipple, L.H. Steering11BC.138031- 149982Clip, pipe to dash, L.H. Steering11BC.138031- 149982Clip, pipe to dash, L.H. Steering12KC.149983 onClips, pipe to dash, L.H. Steering16KC.149983 onClips, pipe to dash, L.H. Steering22K	RangePlateDescriptionNumber per Part VehicleAustin per Part VehicleC.138031- 149982Oil pressure pipe with union nut and nipple, L.H. Steering11B2740C.149983 on 149982Oil pressure pipe with union nut and nipple, L.H. Steering11B2963C.138031- 149982Clip, pipe to dash, L.H. Steering11B2963C.149983 on C.149983 onClips, pipe to dash, L.H. Steering16K9897C.149983 onClips, pipe to dash, L.H. Steering22K5215

Published July 19, 1954

YOUR RECORDS PARTS LISTS STOCK CARDS ALTERATIONS NOTED PARTS ORDERED

FOR

VOLUME Issue 7 24----CARS

> ENGINE 29

VOLUME 24-CARS Issue 7

Published July 19, 1954

ENGINE 2

YOUR FOR RECORDS To be published at a later date. STOCK CARDS PARTS LISTS ALTERATIONS NOTED PARTS ORDERED

Countryman A 70 Saloon Countryman A 70 Saloon Healey 100 Hire-Car Healey 100 Pick-Up "Austin-Hire-Car Austin-Pick-Up Type A 70 Taxi A 70 Taxi and and Ξ Ξ μ н. Ж Ш Ξ Π. Ш E. 206154 on E. 207106 on 17800--206153 101-132001-25001-* 136894--207774 on 208583 on Range 207773 208582 207105 0 II Plate Studs caps . . . Self-locking Split pins caps Studs for main bearing Slotted nuts for studs Spring washers nuts • for main Description (Nyloc) bearing Number Vehicle per 66 6 00 6 Number 2K 2K K 1K 2K IK Austin Part 5919 1240 49 2812 5949 2810 16-H.P. Taxi, Publication Austin-Healey Parts List Pub. 558A, Type and Number Hire-Car Pub. 728, Pubs. 853, Pub. 1050, and 780A, 16-H.P. Engine, p. 2 p. 2 p. 2 p. 2 A 70 p. 1 100 Continuec

INTERCHANGEABILITY

necting rod with cap, bolts and nuts will be supplied for replacements when stocks of the old nut and spring washer. Bolts, studs and nuts are not separately interchangeable, but the new concounterparts, and so can the connecting rod bolt washer can be used together to replace their old The new main bearing stud, nut and spring

SUMMARY OF ALTERATION

ones are exhausted.

place of slotted nuts and split pins. The addition duction of longer bolts and studs respectively. of a spring washer has necessitated the intro-

necting rod cap bolts and main bearing studs in spring washer are now being fitted to the con-

Self-locking

nuts (NYLOC) together with a

A 70, Austin-Healey 100, Taxi, Hire-Car

P

AUSTIN SERVICE

JOURNAL

PA

MAN

AND

CONNECTING

ROD

BEARING CAP

FIXINCS

MAIN AND CONNECTING ROD BEARING CAP FIXINGS-continued

A70 Pick-Up Countryman A 70 Saloon Austin-Healey 100 Countryman A 70 Saloon Healey 100 Hire-Car Taxi and Hire-Car Pick-Up Austin-Type A 70and and Taxi E.132001-215120 E. 17800-211142 ш Ц Ц Ξ Ц E. 25001-. 101– 216296 I 216297 on 215121 on 211143 on 136894-Range 211142 213398 SUMMARY OF ALTERATION—continued Plate caps . . Self-locking Connecting rods with cap Connecting rods with cap spring cap bearings screw (use 1B 2921). Bolts for connecting rod Spring washers Bolts for connecting rod bearings and setscrews Slotted nuts for bolts Split pins . . . cap bolts, and nuts, less nuts bolts, Description washers, and nuts (Nyloc) clamping and less per Vehicle Number 4 4 & & & \approx $\infty \infty$ 1K 2K 2K 2K K ĺΒ B Number Austin Part 1750 5129 1232 2811 5896 2808 2921 1345 Austin-Healey 16-H.P. Taxi, Pub. 558A, Publication Type and Parts List Pub. 1050 and 780A Pubs. 853, Hire-Car, Pub. 728, 16-H.P. Number Engine, A 70 p. 4 p. 4 p. 4 p. 5 <u>100</u> p. 4

VOLUME 24-CARS

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ENGINE

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M TOCKING

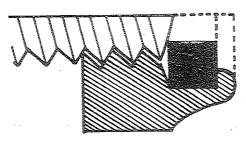
almost to be being many times yet still retain their self-locking ability. damaged, they may be vehicles, The 100% used in Nyloc self-locking nuts which are now unlimited, and provided have been thoroughly tested and found many applications The life of these nuts is removed and replaced on Austin

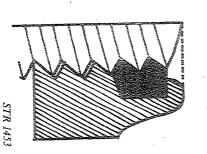
THE PRINCIPLE

threaded. incorporate a moulded nylon insert. or collar has an internal diameter than the diameter of the bolt and is not initially hexagon nut with its height slightly increased to The Nyloc self-locking nut is slightly less ρ This insert standard

are in close contact. from the bolt head until the sides of the thread coming this resistance, the nut is forced away special insert, further advance is resisted. In overthreaded portion of a Nyloc nut and reaches the In assembly, when a bolt passes through the

of the thread in contact, and a considerable antipressure results in heavy friction between the sides the side of the bolt thread which will normally carry rotational force is exerted to prevent the nut from moving under vibration. This force distributes itself as a pressure on the load when the nut is drawn home. The





Before the bolt has passed through the insert, the Nyloc is free because of normal tolerance between the threads. After the bolt has passed through the insert heavy friction is exerted between the loadcarrying sides of the threads. The Nyloc nut is independently locked to the bolt thread.

)TAN, Ŋ

the anti-rotational characteristics of the nut. between the insert when it engages the the material ensure that no nylon insert and the special elastic The bolt makes its own thread through the and the bolt further increases bolt threads. chips are properties of removed Pressure

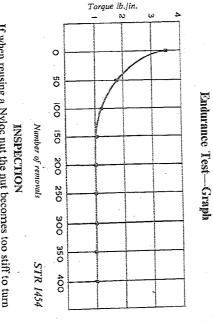
POWERS OF RESISTANCE

and Sodium Hydroxide (10 % at 85° C.). Peroxide, Soda Ash (10%), Sulphuric Acid (5%) õ from all oils, boiling water. Nylon is be unaffected extremely resistant to Under test the material was found petrol, paraffin, by solutions of kerosene deterioration Hydrogen and

QUALITIES OF ENDURANCE

addition a nut was repeatedly assembled on the and off a standard $\frac{1}{4}$ " B.S.F. bolt 30 times and the final average torque was was 1 lb. in. (see Graph). bolt and after 400 removals, the torque figure Six Nyloc nuts were screwed completely on 2.100 lb. in. In

.975 lb. in. torque after only 30 removals. Aircraft This compares specification A.D. 114 very favourably requirement with the of



If when reusing a Nyloc nut the nut becomes too stiff to turn with the fingers, after being screwed on to the bolt up to the nylon insert, and a spanner becomes necessary for further screwing down, then the nut is serviceable. If the nut can be screwed past the nylon insert by finger pressure alone, then it has become damaged and must be replaced.

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ENGINE

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--CARS

30, A 40, A 70, Austin-Healey 100, Taxi, DOWELS Hire-Car, A 125, A 135 ELORDICI I

AUSTIN SERVICE JOURNAL

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sequently been drilled in vehicles by using stepped dowels in wheels to receive the stepped dowels. plain parallel line with the remainder of the Austin range of vehicles by using stepped dowels in place of clutch have been slightly increased in length to A 40 range of vehicles have been brought into facilitate assembly. The dowels in the flywheel which locate the ones. Į'n Larger addition, the A 30 and ger holes have the A 30 and A 40 con-

SUMMARY OF ALTERATION

. INTERCHANGEABILITY

The new flywheel with dowels can be used to replace the old one, and the longer dowels will replace the shorter ones except in the case of replace the shorter ones except in the case of A 30 and A 40 vehicles.

	A 40		A 30	Туре
E.975130 on	E.300301- 975129	E.56573 on	E. 17957–56572 E. 101–56572	Range
	ABII			Plate
Flywheel with starter gear Dowels, flywheel to clutch	Flywheel with starter gear Dowels, flywheel to clutch	Flywheel with starter gear and dowels Dowels in flywheel for clutch	Flywheel with starter gear and dowels Dowels in flywheel for clutch	Description
2 - 2	2 1	2 1	2 1	Number per Vehicle
1G 2981 1G 2984	IG 1234 2K 5844	2A 516 1G 2984	2A 376 2K 5844	Austin Part Number
	Pub. 1099, Engine, p. 5	Engine, p. 3	Pub 8831	Parts List Publication Number

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ENGINE

FOR YOUR RECORDS

STOCK

. CARDS

PARTS LISTS

ALTERATIONS NOTED PARTS ORDERED

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Continued

YOLUME 24-CARS

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(Pick-up) (Pick-up) Austin-Healey Type and Hire-Car (Except Pick-up) Healey 100 Austin-A 70 A 70 A 70 100 A 125 and A 135 Taxi E.214145 E.136894-E.17800-211301 E.66501-E.35320-E.215344 E.217379 To E * E.211302 Range . т 215343 214144 217378 on on on on on Plate . A26 *To be published at a later date. Flywheel with starter gear and dowels Flywheel with starter Dowels for clutch Dowels, Dowels for clutch Flywheel with starter Dowels for clutch . Flywheel with starter Flywheel gear Dowels, Flywheel Dowels for clutch . gear Dowels, clutch Dowels. Flywheel Flywheel gear and dowels gear and dowels. clutch gear gear and dowels. gear clutch clutch Description flywheel flywheel with starter flywheel with starter flywheel with starter with starter . • ť 5 đ 5 per Vehicle Number \sim \sim \sim 2 - \sim \sim \sim **)___** \sim Number B ΙB Austin Part В IB lΒ ā IG B F 1B F Ð D F $\overline{\Omega}$ Ð 1460 1987 2978 2984 1460 1985 2977 2984 1754 2984 1526 1460 1356 1960 1526 1959 Publication Number Pubs. 603A, p. 9 780A, p. 7 Parts List Pub. 1050, 730, p. 8 853, p. Engine, Pubs. 558A, 780A, p. Pubs. p. 8 728, p. 7 779, 624, ά 430A, p.8 p.8 7 æ -

DOWELS

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AUSTIN

SERVICE

FOR CLUTCH—continued SUMMARY OF ALTERATION—continued

JOURNAL.

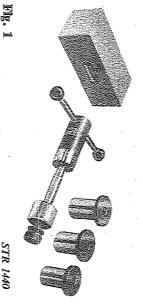
PR

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NONO All models fitted with carbon seal WXXTER PUMP BODITS

any post-war Austin engine to be made serviceable in the event of a new or reconditioned pump not being available. for water pumps (fitted with a carbon seal) on This re-facing tool, GT 193, makes it possible

is assembled on the arbor as shown in Fig. 1. To carry out the re-facing operation the cutter



STR 1440

bearings and providing a centraliser for the cutter. 15-20) the appropriate pilot is selected and placed in position in the pump housing thus replacing the Journal, With the pump completely stripped (see this purnal, Volume 19, section "Tools", pages

the pump body and pilot until the cutter contacts held into position by the knurled nut. the face to be cut, the thrust race is then fitted and The arbor, carrying the cutter, is passed through

face and this marking should be nearest the pilot when the race is fitted. The knurled nut should be tightened by hand only. Nore: The thrust race is marked 'Top' on one

> tight as the cutting proceeds. cutter should not, at any time, be turned anti-clockwise, and the knurled nut must be kept hand should not continue beyond that necessary. speedily produce a smooth surface and cutting Rotating the tool in a clock-wise direction will No lubrication is point. The

as shown in Fig. 2. It is suggested that it is safest to fix it in the vice casting is not damaged or distorted in any way great care should be taken to ensure with the pump body held firmly in a vice, The re-facing operation should be carried out that the but

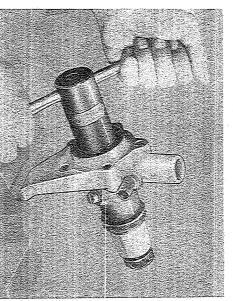


Fig. 2

ST'R 1491

part of the castings be gripped in the vice Under no circumstances should the circular

the use of tools GT 60 or GT 61 (according to the rubber seal when reconditioning a water pump and new races. pump model) will ensure the correct fitting of the It is usual to fit new bearings, carbon ring and

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glaze the seat must be finished by using the standard cutters. No attempt should be made to surface of the Instead the inserts should be replaced. use glaze breakers on hardened steel valve seat inserts which may have been fitted in service. revolutions are sufficient to break the glass hard surface of the valve seat. After removing the manner as valve seat finishing cutters; a few light The glaze breakers must be used in the same





standard range of pilots and handle which are available for finishing valve seats.

The cutters are designed to

quickly and with

available which will enable the work to be done

economy

in cutting tools. be used with the



surface and in order to prepare them for recutting and finishing, glaze breakers have now been made Worn valve seats usually have a glass-hard

SHAT GLAZE BREA

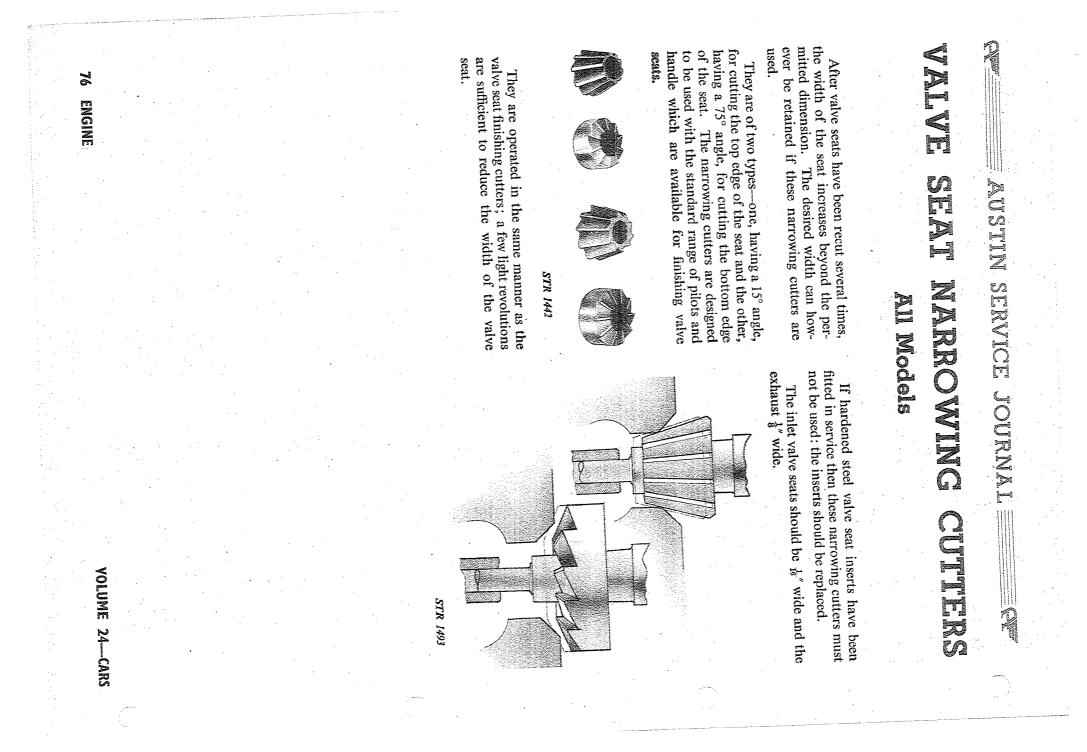
All Models

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SERVICE JOURNAL

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ENGINE WEAR

(Reconditioned Units)

ever effect upon the rubber connection, causing either mileage, at which stage oil vapour has had is usually fitted after a in the breather pipe from the rocker cover to the conditioned engines is often caused by obstructions engine throughout. quence, partial carburetter air cleaner. rocker venting the engine from Reported premature دە cover or total obstruction, and thereby sludge formation is built up inside the reconditioned causing considerable wear to the It is imperative that whenengine wear and failure of recar has covered a A reconditioned engine breathing. S. fitted, Ы <u>د</u> conseprehigh new its

> rubber connection between the air cleaner and rocker cover, should be used. At the same time the air cleaner should be washed out with clean petrol, excess petrol and any remaining grit should be "blown out" with an air line. If the air cleaner cannot be cleaned a replacement part should be fitted.

It is recommended that after every 6000 miles the air cleaner should be examined and thoroughly cleaned, and if any doubt exists as to the condition of the air cleaner or the rubber connection, replacement parts should be fitted.

With reference to soluble oil in the water cooling system, see this Journal, Volume 24, section "Engine", page 11, it must be understood that anti-freeze solutions must not be added to the cooling water if soluble oil has already been added.

SUCLUTORS

As a precaution against freezing it is advisable to drain the water from the radiator and replenish it with the recommended proportions of anti-freeze and fresh water.

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ENGINE

R.R.

FOR PARTS LISTS YOUR YOUR YOUR STOCK CARL RECORDS PARTS ORDE	 18 is incorrect, the plug shown being merely a blanking plug. The accompanying illustration shows the oiling plug at A on the right hand side of the pump body. To ensure that owners are not confused, handbooks should be amended as and when possible particularly before an owner takes delivery of a new car. 	The water pump oiling plug illustrated in the	WVZTER PUJVIP	Scraper rings	Piston rings, taper, 2nd groove 4	Piston rings, parallel, top groove . 4	Description Off Off	SUMMARY OF	A new piston of the fully split skirt type is now available for service purposes on the above vehicle. The new piston gives better performance and compression than the old solid skirt piston.	ΠQ	ISIG	REAL AUSTIN SERVICE
PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED	A second state	Tealey		1G 1201		1G 939	Old Part	F ALTERATION	The new will be sup the old on not interch pistons.	10-FT.P.	SHO NS	
		\$_ 8	G	11G 90	11G 89		New Part		INTERCHANG The new pistons are inter will be supplied for replace the old ones are exhausted. not interchangeable with t pistons.		•	JOURNAL
VOLUME 24mmCARS			PLUC	na veri na menona da fanora da fanora fazi na presenta fanora fanora fanora da fanora da fanora da fanora da fa	-10-H.P. Pub. 214A, p. 5	-	Type and Parts List Publication Number		INTERCHANGEABILITY The new pistons are interchangeable in sets and will be supplied for replacements when stocks of the old ones are exhausted. The piston rings are not interchangeable with those used on the old pistons.			



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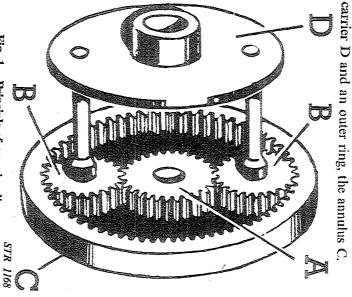
THE OVERDRIVE UNIT

AUSTIN-HEALEY 100

The overdrive unit which is fitted to the Austin-Healey 100 is automatically operated by an electrical circuit. It comprises an hydraulically controlled epicyclic gear housed behind the 3-speed synchromesh gearbox in place of the normal type of rear cover.

THE PRINCIPLE (Fig. 1)

An epicyclic gear train is arranged to consist of a sun wheel A, planet wheels B, a planet wheel carrier D and an outer ring, the annulus C.



If the planet carrier is rotated while the sun wheel is locked to the annulus or the planet carrier, the whole gear train will rotate as a solid unit giving a direct through drive. If on the other hand the sun wheel is locked to the casing preventing it from rotating, and the planet carrier is rotated, the annulus will be overdriven at a higher speed than, the planet carrier.

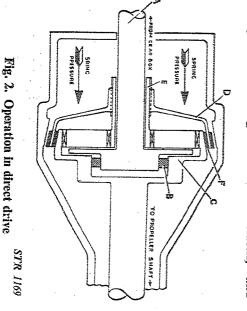
Fig. 1.

Principle of an epicyclic gear

HOW IT WORKS

In addition to an epicycle gear train similar to the one depicted in Fig. 1, there is also an hydraulic pump, an hydraulic accumulator or pressure storage chamber, a roller clutch and a sliding cone clutch.

cone clutch rotates as a solid unit, with the drive to the annulus so that the entire gear train and the annulus. This, therefore, locks the sun wheel being taken through the roller with the corresponding cone on the outer rim of sion springs so that the inner lining F engages on the sun wheel and is pushed by eight compresclutch D which slides on a splined extension E This problem is overcome by means of the cone impossible to reverse the car for the same reason. resistance to assist braking. as a free wheel leaving the car without engine over-run the engine, the roller clutch would act one direction only, and that if the car were to clutch, being uni-directional can transfer power in to the annulus C. It will be realised that the roller shaft A through the rollers B of the roller clutch inoperative, the drive is taken from the driving When in direct gear (Fig. 2) the overdrive is It would also be clutch, and



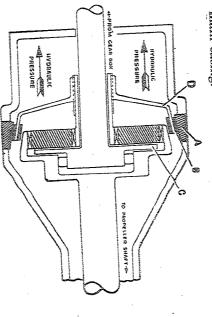
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GEARBOX

overrun and reverse being taken through the cone clutch.

When overdrive is engaged (Fig. 3) a value in the unit is opened, applying hydraulic pressure from the pressure accumulator to two pistons which work in cylinders formed in the unit housing. These pistons exert pressure against the cone clutch member, overcorning the spring pressure and pushing the cone clutch (D) away from the annulus until the outer lining (B) presses against a conical brake ring (A) built into the main casing.



577 1170 Fig. 3. Overdrive in operation

extension the cone clutch, is free to rotate on the comes into contact with the brake ring, both cone driving shaft, therefore, when the cone clutch clutch and sun wheel are brought to rest and held to the driving shaft is driven round the stationary stationary. sun wheel so that the planets rotate and overdrive shaft. In overdrive, the outer member of the roller the annulus at a higher speed than the driving clutch overruns the inner member. which holds the sun wheel from rotating in either braking is again provided by the cone clutch direction. The sun wheel, which carries on its splined The planet carrier (C) which is splined Engine

CONSTRUCTION (Fig. 4)

The mainshaft of the 3-speed synchromesh gearbox is extended to form the input shaft (1) of the

2 GEARBOX

pump (39). overdrive unit. This shaft carries first of all a non-return valve (36) to the accumulator cylinder cam (3) sure is reached when relief holes are uncovered. compression spring (33) until the required pressun wheel (17) in one piece with an externally Further back on the shaft there is a freely rotatable (35), in which a piston (34) moves back against a and splined to the shaft is the planet carrier (15) splined sleeve. Immediately behind the sun wheel it is the inner member (20) of the roller clutch in which are mounted the three planet wheels (16). carried in the annulus (32) which is in one piece The outer member (18) of the roller clutch is with the output shaft. At the rear of the input shaft and also splined to upon the splined sleeve of the sun wheel so that member (11). The cone clutch member can slide sleeve of the sun wheel is a double cone clutch the inner lining (14) can make contact with a coriron brake ring (13) which forms part of the unit outer lining (12) can make contact with a castresponding cone on the annulus, alternatively the thrust ring (10). is secured a ball bearing (9) housed in a flanged housing. face eight pegs (7) acting as guides to eight comring also has attached to it four pins (5) which member is held against the annulus. The thrust pression springs (8) by which the cone clutch pistons (2) operating in cylinders formed in the carry two bridge pieces (6) bearing against two direction to the thrust of the springs and are conunit casing. lator. nected through a valve to the pressure accumuoperating a plunger type To the hub of the cone clutch member The pump delivers oil through a The pistons can push in the opposite This ring carries on its forward Mounted on the splined hydraulic

In direct gear the drive from the input shaft is through the rollers (19). of the roller clutch which rise up the inclined faces of the inner member and become wedged between the inner and outer member of the clutch. The inner lining of the

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deliberately restricted so that the cone clutch takes of oil pressure from the operating cylinders is drive the throttle may be kept open. neous. When changing from overdrive to direct is without interruption and the change instantaoverdriving actually commences, so that the drive into overdrive is taking place the power continues rest together with the sun wheel resulting in a The oil immersed cone clutch comes smoothly to lining (12) contacts the stationary brake ring (13). eight clutch springs and slides forward along the to be transferred through the roller clutch until During the brief period of time when the change perfectly self synchronised change into overdrive. splines of the sun wheel extension until the outer The cone clutch member now overcomes The release the

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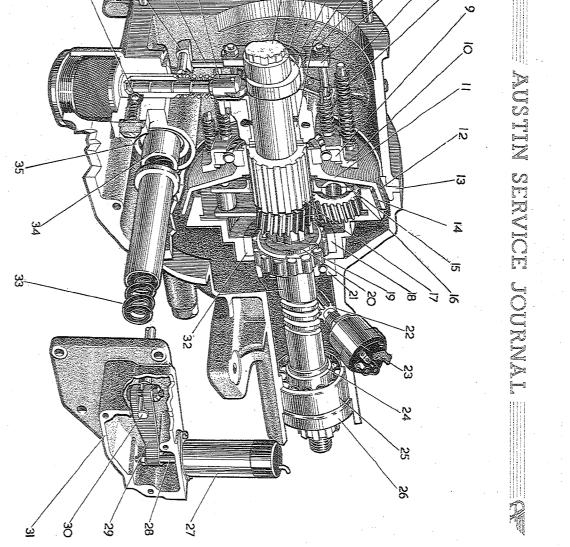
Fig. 4. Sectional view of the overdrive unit

 $\boldsymbol{\omega}_{1}$

B

cone clutch is held locked by spring pressure against the annulus so that the entire gear train rotates as a solid unit to prevent a free wheel condition and to handle reverse torque.

The change into overdrive is done entirely automatically at 40-42 m.p.h. (64-68 k.p.h.). Driven from the rear end of the speedometer pinion (22) is a centrifugal switch (23) which operates to supply current to the operating solenoid (27) mounted on a bracket (31). The plunger (28) of the solenoid lifts the lever (29) rotating the valve operating shaft (30), so that the cam lever (37) lifts the operating valve spindle (38) admitting oil from the pressure accumulator cylinder into the two cylinders in the unit casing, to push the operating pistons (2) against the bridge piece (6).



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about half a second to move over to the direct cone clutch and the brake ring is broken, the load drive position. speed up until the roller clutch ceases to be overon the engine is released allowing the engine to into normal is completed as the cone clutch conrun and takes up the drive again. up when the cone clutch is released from contact the throttle is kept partly open the engine speeds tacts the annulus to prevent free-wheeling. with the brake ring, and the cone clutch then The electrical control circuit is so arranged that takes up the drive smoothly against the annulus the overdrive once engaged will not disengage unless the throttle is partly open. As soon as contact between the The change When

THE ELECTRICAL CONTROL GEAR

internal switch which is closed when the solenoid solenoid has two separate coil windings with an by the plunger The operating valve lever is lifted automatically of an electric solenoid. The

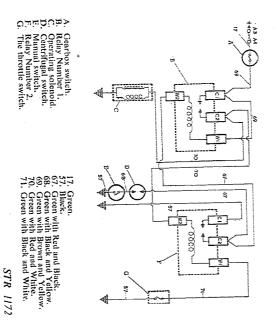


Fig. 5. Electrical Circuit

is not energized. The closing coil gives a powerful internal switch opens leaving the holding coil to initial lift to open the valve, after which the continue holding the valve open.

The current to operate the solenoid is taken

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GEARBOX

gear. first of all through a gear switch in the gearbox the windings of relay number 1, the contacts of k.p.h.) a centrifugal switch closes, and energizes which limits the use of overdrive to 2nd and top wired in series with the centrifugal switch and solenoid. which close and pass current to energize the own discretion on such occasions as overtaking mits the driver to cut out the overdrive at his mounted on the dash panel A (Fig. 6), which peror ascending a hill. When the car reaches 40-42 m.p.h. (64-68 There is a manually operated switch

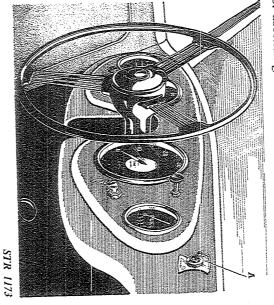


Fig. 6. The Manual Switch

the car slows down to 35-30 m.p.h. (48-56 k.p.h.) made automatically by the centrifugal switch as provided that the throttle is not closed. The change from overdrive to normal is also

engine to increase speed to suit the lower gear. overdrive to normal takes place, thus allowing the throttle should be open when the change from because if the change takes place with a closed This is prevented by a rotary throttle switch, some noticeable braking effect throttle, throttle is closed, and opens when the throttle is such a way that the switch is closed when the which is connected to the accelerator controls in As previously mentioned it is desirable that the and the car overrunning the engine, would occur.

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more than one-fifth open. When the car is in overdrive and the throttle is closed the switch passes current to the windings of number 2 relay, the contacts of which short circuit the centrifugal and manual switches, so as to render them nonoperative. When the throttle is opened the throttle switch opens allowing the centrifugal switch and manual switch to operate normally.

THE HYDRAULIC SYSTEM

and is fed with oil from the sump of the casing plunger type pump operated by a cam on the shaft extension. Radial holes in the shaft collect against a powerful compression spring until the lator cylinder, in which a piston moves back through a non-return ball valve to the accumuthrough a fine mesh strainer. The oil is delivered body is a press-fit into the overdrive front casing, gearbox third motion shaft extension. The pump sages in the overdrive body to an annular groove in the unit casing. When the operating valve is operating pistons which work in cylinders formed sure operating valve is lifted, the oil flows under presof a drilled passage in the unit casing. When the supplied to the operating valve chamber by way the accumulator cylinder oil under pressure is washers, planet carrier and planet bearings. From pressure-fed lubrication to the sun wheel, thrust other radial holes in the shaft, providing positive the oil and deliver it along an axial drilling to between the two steady bushes for the gearbox the relief holes the oil is led through drilled pasis reached, when relief holes are uncovered. From (30.23-33.34 kilogrammes per square centimetre) required pressure of 430-460 lb. per square inch closed, the oil in the operating cylinders is returned The hydraulic system is supplied with oil by a via another drilled passage to the two

CARE AND LUBRICATION

Under no circumstances should extreme pressure gear oils such as S.A.E.80, S.A.E.90 be used because the centrifugal effect of the planets may separate some of the additives from the oil and cause sludging. The oil capacity of the gearbox and overdrive unit is $4\frac{1}{2}$ pints (2.556 litres), and the correct level must be carefully maintained. It will be necessary to remove the drain plugs from both gearbox and overdrive unit to drain them, but refilling is done through the gearbox only.

Refill the gearbox with oil after draining and then drive the car a short distance, after which top up with oil because some of the oil will have been taken into the hydraulic system. Do not run car with no oil in the unit because air may enter the hydraulic system.

deal of unnecessary difficulty. Pay particular a small panel, secured by one screw and positioned gearbox filler plug C (Fig. 14) is obtained through by long and trouble-free service. attention to these small details will be rewarded plug each time before removing it. for filling, and carefully clean all around the filler attention to the clean condition of the oil used which finds its way into a valve will cause a great amount of dirt or "fluff" from a wiping cloth formance of any hydraulic system. at the extreme front right-hand side of the centre tunnel, Cleanliness is the keynote to satisfactory per-Access to the The smallest Regular

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to the sump.

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DIAGNOSIS AND RECTIFICATION OF FAULTS

Any faults in the overdrive or its control gear will become manifest in one or other of five symptoms. These five symptoms are given below and each one is accompanied with a procedure for finding and rectifying the fault in the quickest possible time. The tests given are arranged in progressive order so as to avoid any unnecessary dismantling or removal of parts. As familiarity with the overdrive increases, almost any fault can be isolated and rectified within a short time.

Each of the tests given is based on the assumption that the previous tests have been satisfactorily carried out, and that the unit has been working normally prior to the fault developing. When a unit has been removed from the gearbox and replaced, other faults can occur due to wrong assembly but these faults are given separately in the sections dealing with fitting, stripping and rebuilding of the overdrive.

SYMPTOM NUMBER 1-OVERDRIVE DOES NOT ENGAGE

. Insufficient oil in the unit

The gearbox must be filled to the level of the filler plug. Be sure to clean carefully around filler hole before removing plug.

2. Electrical Control Gear

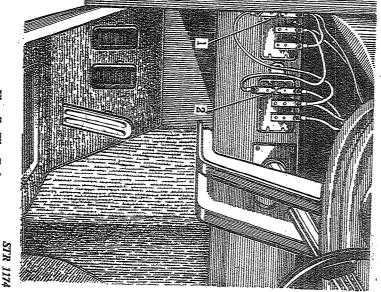
The electrical control circuit should be checked through in the following progressive order.

(a) Blown fuse. The feed to the overdrive is taken from the ignition circuit, through the 35ampere fuse A3-4. Should the fuse be blown the various auxiliary circuits, namely, direction indicator, petrol gauge, windscreen wiper and heater motor will also be inoperative. Replace the fuse, and switch on the ignition. If the fuse again blows it will be necessary to trace the faulty

circuit by disconnecting all of the auxiliaries from A 4 and reconnecting each circuit in turn and operating it. If a faulty circuit is found, examine

the wiring for "short" circuits.

the screwed adaptor in the gearbox casing fibre washers as required between the switch and cross shaft, and adjustment is effected by adding the plunger type, operated by the change speed adjusted or replaced as necessary. (Fig. 16), is faulty or maladjusted and must be If the lamp fails to light, then the gearbox switch D from terminal C.1 on relay number 1 to earth. switch 'on' engage top gear, connect a test lamp (Fig. 7). With the engine stopped and the ignition one of two identical relays mounted side by side is a feed to relay number 1 which is the left-hand beneath the dash on the driver's side of the car in order the next thing to do is to check that there ઝ If the fuse is not blown and the wiring is The switch is



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Fig. 7. The Relays

DIAGNOSIS AND RECTIFICATION OF FAULTS--continued

driver blade to short circuit terminal W.2 to the not operate then the solenoid is faulty and must across the terminals C.1 and C.2 of relay number 1. as the solenoid operates. metal casing of the relay, and listen for the "click" switch still 'on' and top gear engaged, use a screwnumber 1 should now be tested. self-tapping screws tunnel cover which is held to the floor by six gate any further it is necessary to remove the centre faulty and must be replaced. If the solenoid now operates the relay number 1 is To find out which, either relay number 1 or the solenoid is faulty be replaced. <u></u> If the previous test is satisfactory, relay To replace the solenoid, or investiput the screwdriver blade If there is no "click", If the solenoid does With the ignition

faulty switch. overdrive manual switch' on', place the screwdriver and the centrifugal switch tested. previous test the centre tunnel must be removed confirm the diagnosis. placed by a new one and the car road tested to blade across the terminals of the ignition switch 'on' (d) If the solenoid is working correctly in the centrifugal switch, If the solenoid operates, it indicates a , top gear engaged and the which should be recentrifugal With the

switch on ignition, engage top gear, place screwswitch which must be replaced. tion of the solenoid indicates a faulty manual two such relays under the dash (Fig. 7). relay number 2 which is the right-hand one of driver blade across the terminals C.1 and C.2 of the manual switch may be faulty. To check this, (e) If the solenoid does not operate in test D Opera-

the defective and must be replaced. (f) If the action of the solenoid is weak, or solenoid makes a "buzzing" noise, Ħ 3. H

placed. system should be approximately 1.0 to 1.5 amperes. Overheating of the solenoid will be accompanied heats, the solenoid is defective and must be re-(g) If overdrive operates, but the solenoid over-The normal current consumption of the

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> amperes, and the solenoid will soon burn out. by a current consumption of approximately 18-20

engaged before fitting the centrifugal switch. paid that the speedometer pinion is correctly become displaced. Special attention should switch is removed, and the car should be road tested with a new one. speed, the centrifugal switch is probably faulty Norre:. If the car is moved after the centrifugal (h) If the overdrive cuts in or out at a wrong the speedometer pinion will be

3. Solenoid Lever not set correctly

similar hole B in the overdrive In the outer end of the lever is a $\frac{3}{16}$ " (4.7625 mm) mounted on the end of the valve operating shaft D solenoid will be seen a valve setting lever On the opposite side of the overdrive to the initial "bedding down" has caused maladjustment. should be carried out at this point in case any setting of the lever takes only a few seconds and require any further adjustment. lever is in the correct overdrive position (Fig. 8). diameter hole A, The solenoid lever, once set should not normally which must line up with a casing when the Checking the

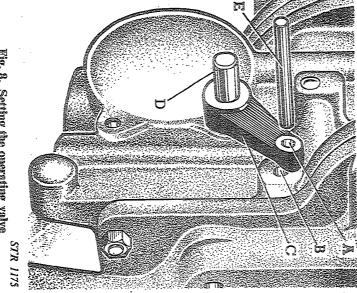


Fig. 8. Setting the operating valve

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DIAGNOSIS AND RECTIFICATION OF FAULTS-continued

reset. hole in the overdrive casing, and it should be possible to insert a $\frac{3}{16}$ "(4.7625 mm) diameter pin E Fig. 8) or drill shank into the two holes. If the the setting lever should now be in line with the the accelerator pedal is depressed. solenoid will continue to hold the lever up until switch because R.2 is a holding relay, and the tion. roles do not line up, the solenoid lever must be the screwdriver point is taken from the centrifugal the valve operating shaft to the overdrive posidriver, when the solenoid will operate and move of the centrifugal switch with the blade of a screwswitch "on" engage To check this setting, switch on the ignition Proceed as follows:-The solenoid will remain energized after top gear and switch overdrive manua Short together the two terminals The hole E

- Remove the cover plate E from the solenoid bracket.
- (2) Slacken off the clamping bolt A in the solenoid lever.
- (3) Energize the solenoid as already described and put a $\frac{3}{16}$ " (4.7625 mm) diameter pin through the hole in the valve setting lever into the hole in the casing.
- Hold the solenoid lever C downwards so that it bears lightly against the head of the plunger bolt D and tighten the clamping bolt A (Fig. 9). Make sure that there is no end-float

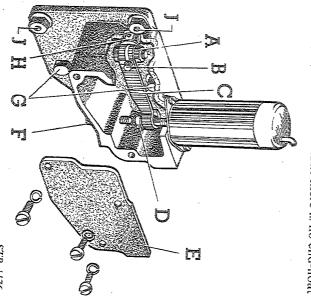


Fig. 9. Adjusting the solenoid lever STR 1176

in the valve operating shaft by pressing the valve setting lever and the solenoid lever inwards simultaneously when tightening the solenoid lever bolt. This expands the oil seals and prevents oil leakage.

- (5) Remove the pin from the setting lever and operate the solenoid several times by switching the ignition on and off with the terminals of the centrifugal switch short circuited together.
- (6) Check that the hole in the valve setting lever corresponds with the hole in the casing by inserting the pin again. If the two holes do not quite line up, a fine adjustment can be made by screwing the solenoid plunger bolt D further in or out of the plunger, to adjust this bolt it will be necessary to remove and replace the split pin which secures the two parts.
- (7) After ensuring that the setting is correct replace the cover to the solenoid bracket.
- (8) The adjusting screw F is to prevent the plunger bolt from falling too low when the solenoid is not energized. The screw should be set to give $\frac{1}{4}$ " (6.35 mm) clearance between the head of the plunger bolt and the end of the screw when the plunger is lifted. (On later models, the use of this screw is discontinued, and a rubber stop used instead).

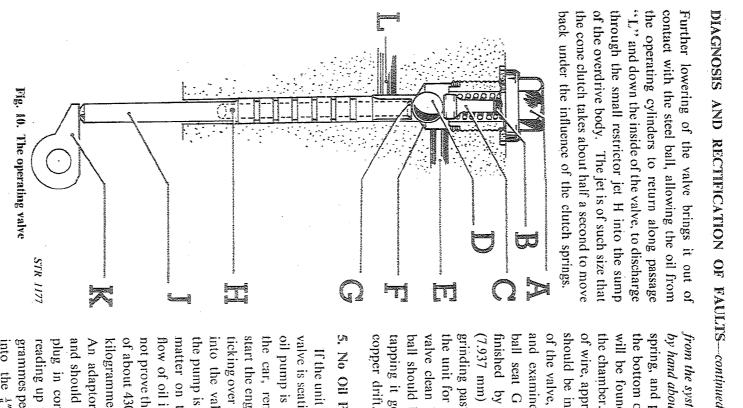
4. Operating valve leaking due to foreign matter on the valve seat

the pistons forward to engage the cone clutch. passage L and into the operating cylinders, moving which is then lifted, admitting oil from the pressure accumulator via the drilled passage E to the is lifted by the cam lever K it seats against the ball spindle sliding in the bore with a conical seating G for the steel ball in the top end. When the valve seating F, to prevent oil from circulating to the operating cylinders. which hold a steel ball D downwards against a plug A, and contains a spring B and plunger C. overdrive casing. enlargement at the top of a vertical bore in the The operating valve chamber (Fig. 10) is an It is sealed with The valve J is a screwed හ hollow

When the valve is lowered, the ball is allowed to come on to its seating in the housing, cutting off the supply of oil from the accumulator.

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right-hand side of the overdrive casing A (Fig. 16). the plug it is very important to release all oil pressure this plug should now be removed. Before removing If the previous checks have all been satisfactory, The operating valve plug is placed at the top

> of the valve, which can then be lifted out. Clean should be inserted into the drilling in the centre of wire, approximately $\frac{3}{32}$ " (2.3812 mm) diameter the bottom of the valve chamber, a small magnet spring, and plunger, the steel ball will be seen in from the system by operating the valve setting lever the unit for grinding in, and be sure to wash the grinding paste. finished by the chamber. will be found useful for removing the ball from copper drift. tapping it gently on to the seat F, using a soft ball should be reseated in the valve chamber by (7.937 mm) diameter steel ball, using fine grade ball seat G on the operating valve by hand about 10 times. valve clean examine the valve seats. before refitting it. To remove the valve a short length gently grinding Do not use the actual ball from After removing the plug, in a If necessary, the If necessary the spare can be కా -9

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5. No Oil Pressure

valve is seating and lifting correctly check that the matter on the seat of the non-return valve. ticking over slowly and watch for oil being pumped start the engine. the car, oil pump is working. plug in conjunction with an oil pressure and should be used to replace the operating valve kilogrammes per square centimetre) is required of about 430-460 lb. per square inch (30.23-33.34 not prove that the oil pressure is correct, a pressure flow of oil into the operating valve chamber does the pump is not working, probably due to foreign into the valve chamber. grammes per square inch) and suitable for screwing reading up to 800 lb. per square inch (56.24 kilo-An adaptor, part number 7H 5899, is available remedy this fault, proceed as follows: adaptor. into the $\frac{A''}{B}$ B.S.P. thread in the mouth of If the unit still fails to operate, and the operating remove the operating valve plug, and Low pressure indicates leakage. Engage top gear with the engine Jack up the rear wheels of If none appears, then gauge the To \geq

-Remove the drain plug G and drain off oil (Fig. 11).

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DIAGNOSIS AND RECTIFICATION OF FAULTS--continued

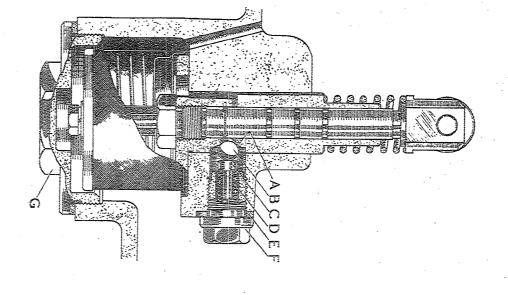


Fig. 11. The oil pump

STR 1178

- \sim Remove cover from solenoid bracket.
- ယ Remove solenoid.
- 4 Slacken off clamping bolt in solenoid lever and (Fig. 12). remove lever with the solenoid plunger attached
- \sim Remove the distance collar H (Fig. 9).
- 5 (7.937 mm) diameter bolts, the heads of the bolts are painted red. *Remove the nuts from the studs before touching the bolts*. This is important. The two bolts should now be slackened off together, using box spanners as shown releasing the tension on the accumu-lator spring, which abuts the solenoid bracket. The solenoid bracket is secured by two $\frac{1}{16}$, (7.937 mm) diameter studs and two $\frac{1}{16}$.

(Fig. accumulator spring and spring tube removed taken right When the tension on the spring is released the two bolts which are 2'' (5 cm) long can be <u>13)</u> out and the solenoid bracket (5 cm) long can be

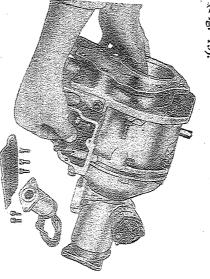


Fig. 12. Removing the solenoid lever

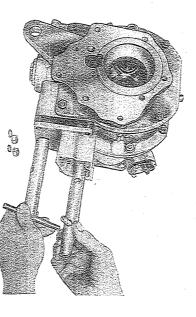


Fig.

13. Releasing the pressure from the accumulator

Bujads

- .7 The pump valve plug F can now be unscrewed
- with 23 box spanner, and the spring ç
- ŝ Clean the valve seat A and reseat the ball if plunger C and ball B removed (Fig. 11).
- Re-assembly is the reverse of the above opera-tions, but ensure that the valve plug is well with a copper drift. necessary by gently tapping it on to its seat

damaged in any way. tightened on to the soft copper washer E (Fig 11), which should be replaced by a new one if

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DIAGNOSIS AND RECTIFICATION OF FAULTS-continued

Do not forget to replace the accumulator spring tube 35 (Fig. 43) when re-assembling, failure to do so will result in the piston housing becoming displaced as soon as the unit is driven. Also ensure that the end of the accumulator spring engages on the short dowel on the rear of the solenoid bracket.

After re-assembly it will be necessary to reset the solenoid lever, as already described.

NOTE: Figures 12 and 13 are shown for convenience with the overdrive removed from the car, but the procedure is exactly the same with the unit in the car.

SYMPTOM NUMBER 2—OVERDRIVE DOES NOT RELEASE

IMPORTANT. If this happens, do not try to reverse the car, because a transmission "lock" would occur in reverse, and damage may result.

1. Blocked Restrictor Jet in the operating valve A symptom of this is failure to get back into normal, or a slow return to normal drive as the oil slowly leaks out through the blocked jet. The cure is to remove the operating valve as already described and clear the jet.

2. Electric Control not operating correctly

If the unit remains in overdrive after the ignition has been switched off, then the electrical circuit is not at fault. If, however, the unit cuts in and out with the ignition switch, a short circuit in the wiring or a faulty relay must be looked for.

3. Solemoid Lever not set correctly or solemoid plunger "sticking"

It is very unlikely that any maladjustment of the lever will develop to prevent overdrive from releasing. Make sure that there is $\frac{1}{4}$ " (6.35 mm) clearance between the solenoid adjusting screw F (Fig. 9) and the head of the solenoid bolt when

> the plunger is lifted. The setting and working of the valve setting lever should be checked as already described, and corrected if necessary.

4. Sticking Cone Clutch

This fault has been known to occur as a result of heating up after a long run on a new unit, before the linings are fully bedded in. The clutch invariably releases itself when it has cooled down a little, or it can be released by giving a sharp blow with a hide hammer on to the brake ring between the body of the overdrive and the rear cover.

5. Damaged parts within the unit necessitating removal and dismantling of the unit for inspection.

SPECIAL NOTE. Internal damage is very unusual and all tests should be re-checked before deciding to remove or dismantle the unit.

SYMPTOM NUMBER 3-CLUTCH SLIP IN OVERDRIVE

- 1. Insufficient oil in gearbox The correct oil level must be maintained.
- 2. Solenoid lever not set correctly Check the setting as already described
- 3. Insufficient hydraulic pressure

Probably due to foreign matter on the ball seat of the pump valve, or on the ball seating on the operating valve. Check the pressure with the adaptor and gauge as already described, and clean and reseat valve if required.

4. Worn or burned cone clutch outer lining

This is not experienced even after very large mileages unless the car has been driven for a long time in overdrive, with the clutch slipping due to causes 1, 2 or 3, given above. Removal of the unit and replacement of cone clutch member, would be necessary in this case.

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GEARBOX II

DIAGNOSIS AND RECTIFICATION OF FAULTS-continued

- SYMPTOM NUMBER 4--CLUTCH SLIP IN REVERSE OR FREE WHEEL CONDI-TION ON OVERDRIVE
- Blocked restrictor jet in operating valve causing sluggish return movement of the cone clutch Clean the restrictor jet as already described.
- SYMPTOM NUMBER 5--OVERDRIVE EN-GAGES BUT DROPS OUT WHEN THE CAR SLOWS DOWN WITH THE THROTTLE CLOSED, ACCOMPANIED BY A NOTICEABLE BRAKING EFFECT

1. Wrong setting of the Rotary Throttle Switch The setting of the switch is very critical, and it should be realised that any adjustment of the accelerator controls, or carburetter throttle may also affect the setting of the throttle switch which must be set to open at $\frac{1}{5}$ th throttle opening. If this fault develops, it will probably be after the accelerator controls or the carburetter have been adjusted, and the switch should be tested and if necessary reset as follows:----

Take a feed from terminal A.1 on the fuse block through a low current consumption test lamp F (a 12-volt, 2.2-watt dash panel bulb is suitable) to the top contact E of the rotary throttle switch D (Fig. 14).

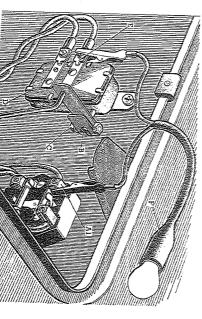


Fig. 14. Setting the throttle switch

When the throttle is closed, the bulb should light at full brilliance and should go very dim

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when the throttle is opened beyond $\frac{1}{5}$ th. The bulb does not go completely out because when the switch opens there remains a high resistance path to earth through the windings of the relay R.2 and the solenoid. One-fifth opening of the throttle can be accurately gauged by inserting a .048" (1.319 mm) feeler C between the throttle stop A and the throttle stop screw B (Fig. 15). If the setting is incorrect slacken the throttle switch lever clamping bolt C and adjust the switch by turning the shaft B (Fig. 14) which has a slotted end to take a screwdriver.

Note: If the lamp will not light at full brilliance at all, the rotary throttle switch is faulty and must be replaced.

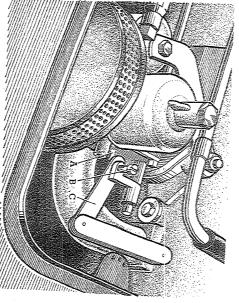


Fig. 15. Gauging the throttle opening

2. Faulty operation of Relay Number 2

If the rotary throttle switch is correctly set and in good order then relay number 2 is probably at fault. Test as follows:----

- (a) Disconnect terminal W.2 on relay number 2.
 (b) Switch on ignition and encape to reaction.
- (b) Switch on ignition and engage top gear.
 (c) Using a short piece of wire short circuit terminal W.1 on relay number 1 to terminal W.2 on relay number 2. If solenoid fails to operate with throttle closed, relay number 2

is defective and must be replaced,

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GEARBOX AND OVERDRIVE-REMOVAL AND REPLACEMENT

REMOVAL

stands or tressels, or position car over a 2 Turn battery master switch in rear boot to Jack up front of car and place on to wheel E.

the floor by the "off" position. Remove both front seats, which are held to two setscrews each, and remove

carpets and matting.

and the centre panel on the front bulkhead which is also held with six self-tapping screws. The gearbox screwed to the floor with six self-tapping screws, removal (Fig. 16). Remove and overdrive unit is now exposed for centre tunnel cover, which s

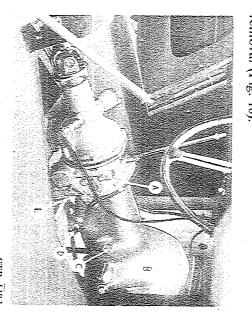


Fig. 16. Transmission exposed for removal STR 1183

ţ, Remove the bottom bolts which hold the

gearbox to the engine rear plate.

.7.6 Remove starter.

freely slide free. to remove the nut B (Fig. 16). The lever will then the clutch operating shaft. at A (Fig. 18). Disconnect the clutch operating lever from The clutch lever can be seen hanging It is only necessary

just be seen at E (Fig. 16). œ Remove the engine rear tie rod which can

speedometer cable B (Fig. <u>ي</u> Disconnect the overdrive harness 17). A and

the rear mounting bolts. 10. Remove the four propeller shaft bolts and

a lifting block attached to the rear of the engine, until the mounting flange on the overdrive unit is five inches clear of the mounting rubbers, as Jack up rear of engine or alternatively use mounting

> forward slightly giving clearance for the fan when radiator brackets, to allow the radiator to tilt slacken the nuts which hold the radiator to the shown in Fig. 17. It may also be necessary to

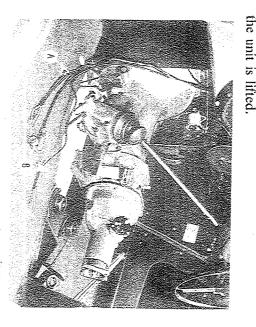


Fig. 17. Transmission ready for removal STR 1184

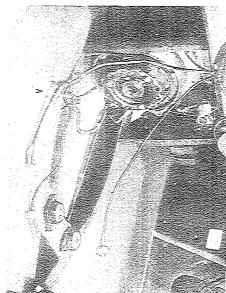


Fig. 18. Interior of car with transmission removed STR 1185

12. 13 Remove the top gearbox mounting bolts.

The gearbox and overdrive unit can now

the clutch centre plate by tilting the gearbox out be lifted clear by hand, taking care not to strain

RE-ASSEMBLY of alignment. Re-assembly is carried out in reverse order. F

to re-align the clutch centre plate using tool GT 80 the clutch has been removed, it will be necessary

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GEARBOX

FITTING THE OVERDRIVE TO THE GEARBOX

leaving the adaptor plate bolted to the gearbox. operations 1 and 2 in the following notes, on the bench, than to fit an overdrive with the the gearbox and overdrive can be very easily from the gearbox by carrying out the gearbox in the car. The overdrive can be removed altogether, and to remove or refit the overdrive remove the gearbox and overdrive from the Experience has shown that it is quicker pulled apart, when car đ

paramount importance. drive unit Very carefully clean the outside of the overand the gearbox. Cleanliness ls. S,

and two long ones C screwed into the adaptor the front cover of the unit, and is like up ion. Remove the adaptor plate

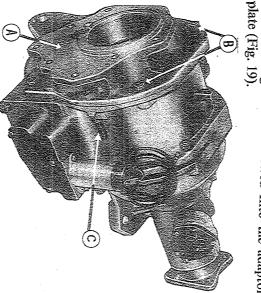


Fig. 19. Assembled overdrive unit

STR 1186

undue pressure required to tighten these nuts later on would be noticed. by the pressure of the clutch springs, so that any degree of stiffness which is given to these two nuts from the clutch springs. of all, and then simultaneously remove the nuts from the two long studs, releasing the pressure Remove the nuts from the four short studs first Pay attention to the

mainshaft into the housing on the adapter plate and fit the circlip B (Fig. 20). **د**ی Press the ball journal bearing A for the

GEARBOX

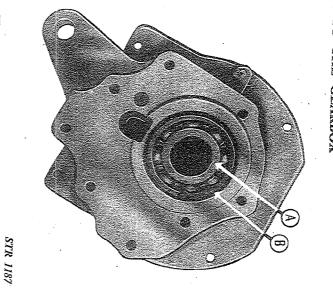
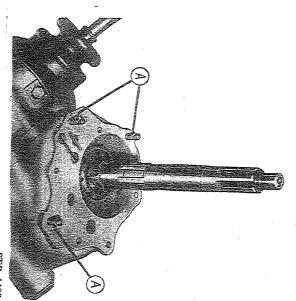


Fig. 20. Adaptor plate with mainshaft bearing

\$ Screw the three studs A into the holes shown

joint washer in position (Fig. in the rear face of the gearbox and lay the paper 21).



ball bearing, drive the bearing and adaptor plate over the shaft to press against the inner race of the Ś Using a suitable length of tubing which fits

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Fig. 21. Gearbox showing studs for adaptor plate

STR 1188

FITTING THE OVERDRIVE TO THE GEARBOX—continued

adaptor plate is right on. will not go over the end of the studs when the through the holes in the adaptor plate, the spring three studs washers and on to the protruding mainshaft. m nuts A should be fitted, because they the rear face of the As soon as the gearbox are

fitted and locked in place with and tighten the setscrews and stude by diagonally distance piece (Fig. prevent end float between the bearing and the together with shim washers opposite selection. Next fit the five setscrews E and lockwashers, 22) The distance piece B if required, the circlip D, C is now õ

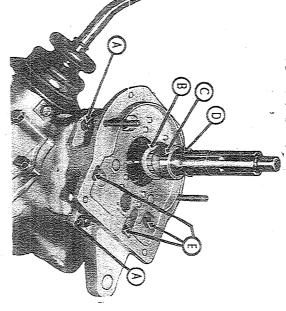


Fig. 22. Gearbox with adaptor plate fitted STR 1189

in the planet carrier and the roller clutch before clutch line up with each other; a long thin screw-driver should be used to line by eye the splines wheel and thrust washers, planet carrier and roller the dummy shaft is not available, so that the sun insert a dummy shaft A or a spare mainshaft if unit in a vice, so that the unit is upright, and dummy shaft, coupling inserting action of the roller clutch (Fig. 23). turning the shaft to and fro to feel the free-wheel in by holding the coupling flange in one hand and Make sure that the dummy shaft has gone right the splines of the planet carrier and roller clutch. Ģ Grip the mounting flange of the overdrive flange the dummy shaft. to assist in feeling the shaft into to and fro while holding Gently turn the the

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7. Make quite sure that the clutch springs are in their correct positions—the $4\frac{1}{4}$ " (10.8 cm.) long the movement of the sliding clutch so that overones E are the outer (Fig. 24). This is most im-portant because if any of the springs are in the springs D are the inner ones, and the $4\frac{1}{2}$ " (11.5 cm.) seen in their correct positions in figures 24 and 25.8. Place the oil pump operating carn A in drive will not engage. The springs can be clearly when the adaptor plate is in place and restrict wrong position they will become "coil bound"

Fig. 23. Centralizing the gears

STR 1190

the oil pump plunger B, and also place the paper joint washer C in position (Fig. 24). 9. The gearbox, with top gear engaged should with the lowest part of the cam in contact with position on top of the centre bushing as shown,

shaft to and fro to assist in "feeling" the maincarefully threading the mainshaft through the oil now be lifted by hand on to the overdrive unit of the overdrive unit. Cently turn the first motion pump cam and into the centre bushing in the body

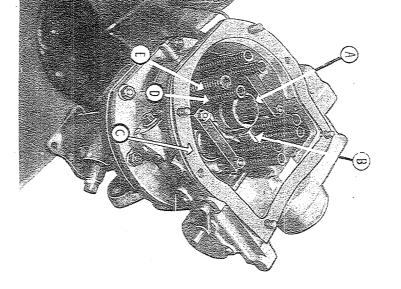
VOLUME 24-CARS with the dummy shaft. (Fig. out and the unit is not disturbed. 25).

Fig. 25. Lifting on the gearbox

STR 1192

two long studs can then be completed, and the nuts fitted and tightened on to the four short studs Norre: The gearbox mainshaft should If any difficulty

should be removed and the overdrive re-aligned ponents has become misaligned, and the gearbox is experienced it is probable that one of the comup procedure described in paragraph 6 is carried enter the overdrive easily provided that the lining



roller clutch. stationary until the mainshaft is felt to enter the whilst tightening immediately. Gently rotate the gear-box first motion shaft in a clockwise direction being felt as the two nuts are tightened, plunger. If the two units do not pull together easily with only the resistance of the clutch springs remains properly engaged holding The tightening of the nuts on the the overdrive with the coupling oil flange pump stop

FITTING

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OVERDRIVE TO THE GEARBOX-continued

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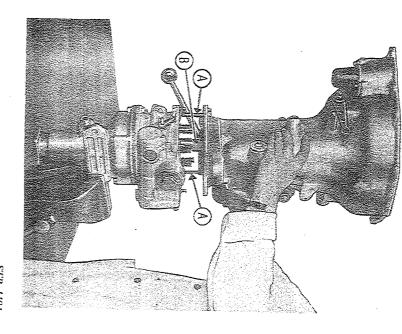
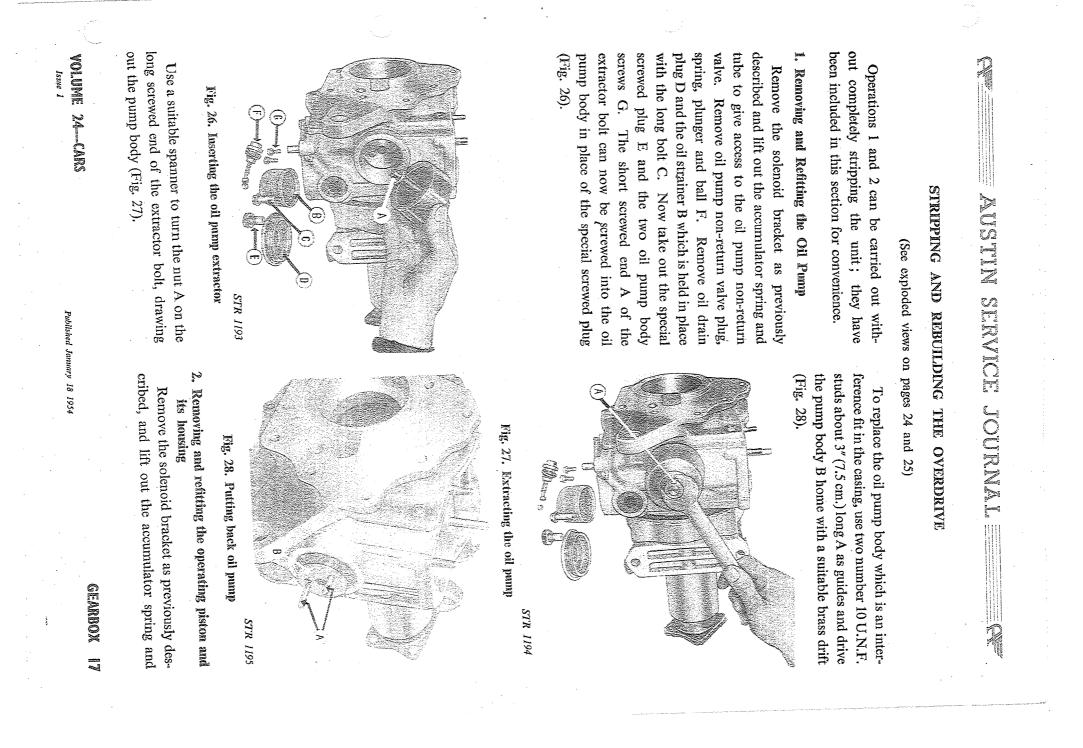


Fig. 24. Overdrive ready to receive the gearbox STR 1191

studs, compressing the clutch springs and drawing the gearbox and overdrive come together watch carethe gearbox and overdrive together evenly. fully to see the splines B on the mainshaft enter taneously to tighten the nuts on the two long vent overdrive engaging. and nuts on to the end of the studs. located they may become "coil bound" and preimportant because if the springs are not properly the short locating pegs B (Fig. 22) which are cast into the face of the adaptor plate-this is very mencing to tighten the nuts, use a long thin screw-driver to guide the ends of the clutch springs on to holes in the overdrive body, put the spring washers two long studs A just protruding through the shaft into the splines of the planet carrier. When the mainshaft is sufficiently entered for the gearbox to come to rest against the clutch springs with the oil pump operating cam and that the cam Now commence simul-Before com-As the When.





STRIPPING AND REBUILDING THE OVERDRIVE-continued

spring tube. The accumulator piston housing B is a push fit into the unit casing, and the oil tightness of the housing is ensured by the two rubber "O" rings A.

The housing can be extracted easily together with the piston by the use of the special tool D which fits into the bore of the housing and has a rubber "O" ring C which can be expanded by turning the tommy bar E (Fig. 29).

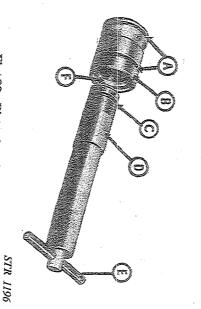


Fig. 29. Piston housing and extractor

To use the extractor, first remove the operating valve plug to admit air to the rear of the housing, insert the nose of the extractor as far as it will go into the bore of the housing, tighten the tommy bar and pull (Fig. 30).



STR 1197 Fig. 30. Extracting the piston housing

8

GEARBOX

Examine the bore of the housing for signs of wear such as a ridge or scoring. This examination should be carried out without removing the piston from the housing.

The accumulator piston is fitted into the housing at the works with a special venturi tube, which ensures that the piston rings do not scrape the surface as they enter the aluminium housing. Replacement pistons are supplied ready assembled in the housing. The piston should not be taken from the housing, but should this happen inadvertently do not put the piston back by pushing it into the rear end of the housing which has a conical recess F (Fig. 29), as this may result in the piston rings scraping the aluminium as they enter the housing. Instead put the piston back from the front end of the housing, using a small piston ring clamp to compress the rings as the piston enters.

Push the new piston and housing together into the casing by hand, using the accumulator spring tube 35 (Fig. 43) to push with. This will ensure that the piston does not blow out backwards as the housing goes in.

3. Dismantling the body and gears

Remove the front cover plate, the clutch thrust springs and the two operating piston bridge pieces. Next remove the nuts from the six studs which hold the rear casing to the main casing and the two casings can then be pulled apart (Fig. 31).

The sliding cone clutch sun wheel, planet carrier and roller clutch can now be lifted out in that order. To remove the annulus from the rear casing, grip the coupling flange in a vice and remove the large slotted nut from the end, also remove the speedometer pinion assembly. The annulus, which can now be drifted out easily from the rear will take the front ball bearing with it and leave the rear ball bearing in the casing.

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STRIPPING AND REBUILDING THE OVERDRIVE-continued

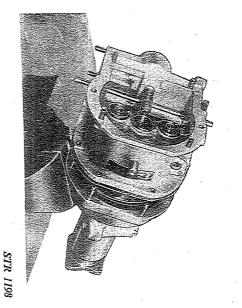


Fig. 31. Separating the casings

4. Inspection

After the unit is dismantled and cleaned, each part should be thoroughly inspected to decide which parts should be replaced.

(a) Front Casing. Examine for cracks or damage, oil leaks from the plugged ends of the oil passages or from the welch plug beneath the accumulator bore. Examine the bronze support bushes in the centre bore in which the mainshaft should be a close running fit. These bushes cannot be replaced in service since they have to be bored concentric to the casing after fitting. See that the cylinders which are bored in the casing for the operating pistons are free from scratches or scoring, and that the operating pistons and rings are not damaged.

(b) The Gear Train. Inspect the teeth of the gear train for damage. Examine the bronze bush in the sun wheel which should be a close running fit on the mainshaft, and examine the planet wheels which should be a close running fit on the planet wheels in they cannot be replaced or planet bushes are they have to be bored true to the pitch line of the gear teeth. The gear train comprising sun wheel, planet carrier with planets and annulus is only

supplied for service as a matched assembly to ensure quiet running, and care should be taken when dismantling units to keep gear trains in sets.

(c) The Mainshaft. Inspect splines for wear or burrs, examine for signs of wear where the shaft runs in the bushes and sun wheel. See also that the oil holes are open and clean.

(d) Cone Clutch Sliding Member Assembly. Examine the clutch linings for burning, wear or embedded foreign matter. The linings cannot be renewed in service because they have to be ground accurately after riveting to the cone clutch member, which must be replaced if necessary. See also that the cone clutch slides freely on the splines of the sun wheel extension. Make sure that the pins for the clutch springs and bridge pieces are riveted tightly into the clutch thrust ring, and that the thrust ring ball bearing is in good condition.

(e) Clutch Springs. Examine for distortion or collapse. Free length should be $4\frac{1}{2}''$ (11.5 cm.) outer springs, $4\frac{1}{4}''$ (10.8 cm.) inner springs. Replacement springs are supplied only in sets.

(f) Roller Chutch. See that the rollers are not chipped or damaged and that the inner and outer members of the roller clutch are "not damaged. The outer member of the roller clutch cannot be replaced in service because it has to be ground concentric to the annulus after being fitted. See that the spring is not distorted or broken. Replacement rollers are supplied only in sets.

(g) Ball Bearings. See that the ball bearings for the annulus are in good condition, and free from roughness when rotated slowly.

(h) Thrust Washers. Inspect for scoring of the steel or bronze.

(i) Oil Pump. Examine the pump for signs of wear. The pump plunger should be a close sliding hydraulic fit in the pump body, and the plunger

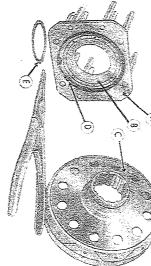
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Fig. 33. Assembling the sliding member



the annulus driven out and a different spacing these limits, the nut and flange must be removed, develop on the annulus bearings when the unit It is very important that no preload should float must be .005" to .010" (.127 to .254 mm.). across the front face of the tail casing. between the annulus and a straight edge placed dial indicator or by inserting feeler gauges If the end float falls outside The end

the following order: (b) Next prepare the main casing assembly in inwards.

ference fit. The lip of the oil seal should face oil seal (Fig. 4) which is .006" (26 mm.) interremove the nut and flange and press home the

washer selected.

When the end float is correct,

warms up in use.

cribed. spring, tube and solenoid bracket, as already desaccumulator housing with piston, accumulator Assemble the oil pump with valve, etc., the Next fit the two operating pistons, using

20 GEARBOX

> should now be fitted. a small piston ring clamp to assist assembly. The operating valve ball, plunger, spring and plug

be used. interference fit; jointing composition should not ring is spigoted to the main casing and is a light using a hard rubber hammer (Fig. 32). Finally drive home the cast-iron brake ring The brake

jet clear. Make sure that the valve slides freely

is free from nicks and scratches and the restrictor

and ball are free from nicks and scratches.

(j) Operating Valve.

See that the ball seating

no slackness.

roller should rotate freely on the roller pin with

Examine that the pump valve seat

STRIPPING AND REBUILDING THE OVERDRIVE-

-continued

AUSTIN SERVICE JOURNAL

5. Re-Assembling the Overdrive Unit

(a) First build up the tail case assembly; drive

in its bore in the front casing.

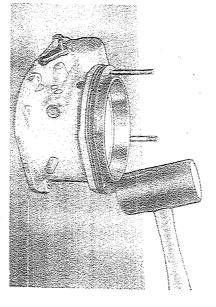


Fig. 32. Driving home the brake ring STR 1199

of the annulus must now be measured, using either flange and tighten the slotted nut. The end float probably be suitable.

been fitted

off when dismantling, even if a new annulus has all try the same distance washer which was taken

the original distance washer will

Drive on the coupling

various thicknesses to suit the assembly.

First of

(Fig. 4).

annulus shaft and press home the rear bearing 25 put the distance washer 24 (Fig. 4) on to the press the annulus and bearing into the tail casing; the front ball bearing on to the annulus, and then

These distance washers are supplied in

(Fig. 33). internal circlip E using suitable circlip pliers the cone clutch member C and secured with the The thrust ring and bearing is then pressed on to ring A and secure with the external circlip D. the ball bearing B into the housing in the thrust (c) Assemble the sliding clutch member. Press

STR 1200

NLLSDY SERVICE JOURNAL

STRIPPING AND REBUILDING THE OVERDRIVE-continued

spring are put together making sure that the spring The roller clutch inner member A, cage B and easily done with the special assembly ring (Fig. 34). is in the right way so as to cause the cage to urge the rollers up the inclined faces of the inner incaupor (d) Assemble the roller clutch. This is quite

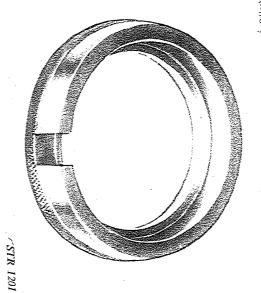
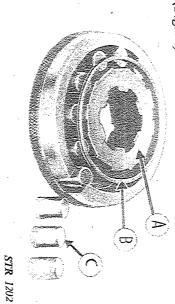


Fig. 34. Roller clutch assembly ring

(Fig. 35). placed into the assembly ring and the rollers C are pushed in through the slot in the rim of the ring The inner member with cage and spring is then



assembly by securely gripping the mounting flange

Place the three thrust washers 3, 4 and 5

Assembly of gear train.

Erect the tail case

Fig. 37. Tail casing with voller clutch assembled

STR 1204

in a vice.

inside the planet carrier, with the steel thrust (Fig. 44) for the rear of the sun wheel into position

washer between the two bronze ones.

One tooth

on each planet wheel is punch-marked, and the

the punch marks are radially outward as shown planet wheels must be turned in the carrier so that

The sun wheel should now be inserted

into the planet carrier, and with the punch marks

in Fig. 38.

Fig. 35. Assembly of roller clutch

from the assembly ring to the annulus, remembering to put the bronze thrust washer A (Fig. 36) into position first (Figs. 36 and 37). The roller clutch can then be transferred direct

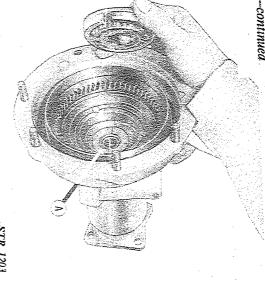


Fig. 36. Transferring roller clutch to annulus

STR 1203

GEARBOX 2

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Issue I



STRIPPING AND REBUILDING THE OVERDRIVE-continued

still outward, the planet carrier should be placed into the annulus. The dummy shaft (Fig. 39) should now be inserted and left in place until rebuilding is completed (Fig. 40).

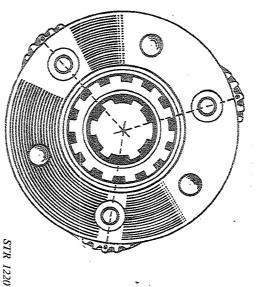
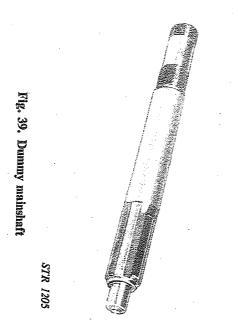
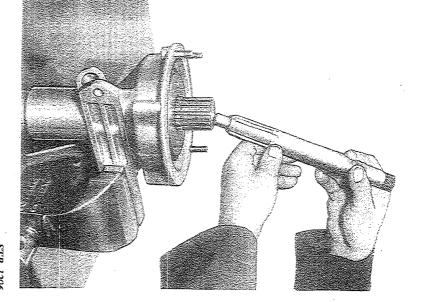


Fig. 38. Positioning the marked teeth on the planet wheels

Note: There are no marked teeth on the planet wheels of the 32% ratio units, as fitted to early cars. The relative position of the planet wheels on 32% ratio units is unimportant. The planet wheels of the 28% ratio units are of compound design, and it is imperative that the marked teeth should be arranged as described.

The next thing is to select a suitable adjustment washer to allow the correct amount of end float





STR 1206 Fig. 40. Inserting the dummy mainshaft

to the sun wheel. The steel thrust washer B (Fig. 41) which is fitted between the bronze thrust washer C (Fig. 41) and the central bush 4 (Fig. 4) in the main casing, serves also to make this adjustment and is supplied in various thicknesses to suit the assembly. Gauging the end float of the sun wheel can be done easily with ordinary feeler gauges as follows:—

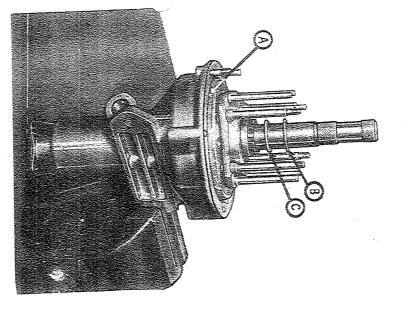
Place the bronze washer C (Fig. 41) and the steel washer B (Fig. 41) in position at the front of the sun wheel. The cone clutch A (Fig. 41) should be left out while the thrust washer is being selected. Put an extra steel adjustment washer of known thickness on top of washer B, and offer up the main casing assembly to the tail casing assembly. It will not go right down because of the extra washer, and the gap left between the

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STRIPPING AND REBUILDING THE OVERDRIVE-continued



STR 1207

Fig. 41. Ready for final assembly

two casings should be measured with feeler gauges (Fig. 42).

washer used is part number 7H 5872G which is of sun wheel end float, for example if the extra thickness of the extra washer less the amount (1.981 end float of sun wheel with the particular thrust between the casings is .062" (1.575 mm.) then the .078" (1.981 mm.) thick, and the measured gap The end float of the sun wheel must be between washer used will be:try the original thrust washer taken from the unit. advisable when reassembling a unit to first of all ,014" and .020" (.355 mm. and .508 mm.). If the end float is found to be too much or too The width of the gap will be equal to the mm. minus 1.575 mm. = .406 mm.-.078" minus .062" == .016" It is

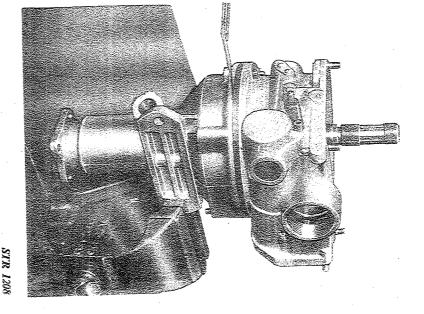


Fig. 42. Gauging the sun wheel end float

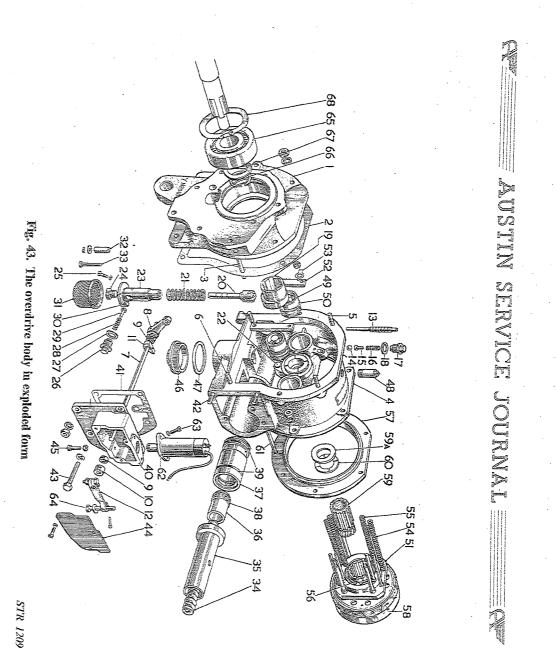
little, a suitable washer can readily be selected by calculation.

Separate the two casings, remove the extra thrust correct, reassembly can quickly be in place, offer up the main casing to the tail casing, put the nuts and spring washers on to the studs washer, put the cone clutch assembly A (Fig. 41) operating pistons should now be fixed in place, and tighten up evenly. The bridge pieces for the gearbox. and the clutch thrust springs placed in position on the pegs. withdrawn and the unit is ready for fixing to the putting the unit into store. a gearbox the adaptor plate should be fitted before As soon as the end float of the sun wheel is If not required for immediate fixing to The dummy shaft should now be completed.

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GEARBOX 23



- 5 Joint washer. Adaptor plate to gearbox,
- Studs, adaptor plate to body,
- \$ Front casing.
- Stud for adaptor plate,
- ¢.
- Stud for adaptor plate.
- œ Setting lever for shaft, Valve operating shaft.
- 9 Oil seals for shaft,
- 10. Collar for shaft.
- Ξ Cam lever.
- 12 Solenoid lever.
- 3 Operating valve,
- 4
- 5 Steel ball for valve.
- Plunger for ball,
- 6
- Spring for plunger.
- 17 Screwed plug for valve,
- 18 Copper washer for plug.
- 19, Oil pump operating cam.
- 20
- Oil pump plunger assembly.
- 21. Spring for plunger.
- 22. Guide peg, in casing, for plunger,
- 23. Oil pump body.
- 24 GEARBOX

- 24 25 Screwed plug for pump body.

47.

- Setscrews, pump to casing,
- 26 Plug for valve on oil pump
- 27
- 28 Copper washer for plug.
- Spring for plunger
- 29 Plunger for ball,
- 30. Steel ball.
- 31 Oil strainer.
- 3 Distance tube for strainer.
- 3 Bolt for strainer.
- 34 Accumulator spring.
- 35 Accumulator spring tube.
- 30 Accumulator piston.
- 37 Housing piston.

59a. Adjustment washer, steel.

Thrust washer, phosphor bronze.

Stud for rear casing.

Operating solenoid.

59. Sun wheel,

58. 57, 56, SS 54 53 52. 51. 50. 49. 48

Clutch brake ring, Clutch sliding member,

Circlip, internal. Clutch spring, inner. Clutch spring, outer, Tab washer. Bridge piece. Clutch thrust ring. Piston rings. Operating pistons. Breather. Fibre washer.

- 38, Piston ring.
- 39. Rubber "O" ring.
- 40. Solenoid bracket.
- 41. Joint washer.
- 42 Stud for bracket.
- 43 Setscrew for bracket.
- 44. Cover plate.
- 45, Adjusting screw.
- 46. Oil drain plug,

68. 67 66. 65 64, 3 62 61. 60,

Circlip for adaptor plate,

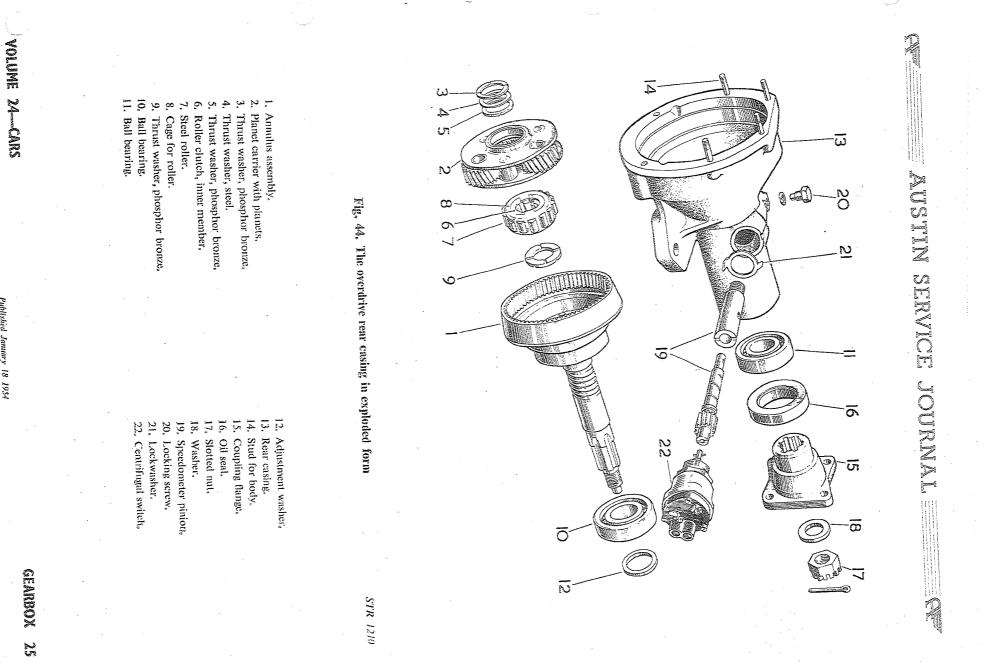
Circlip for shaft.

Distance piece.

Ball bearing for mainshaft.

Plunger screw. Setscrews to bracket.

- VOLUME 24-CARS



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Issue I

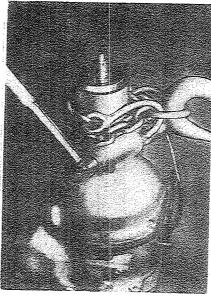
the chassis (Figs. 1 and 2). removing the gearbox and overdrive unit from drive unit can be removed and replaced without R \sim دي 10. Remove the cover and gauge from the front <u>م</u> Ş OVERDEIVE 11. \$ 12. 7. The oil seal fitted to the rear end of the over- \approx 15 9 The following procedure should be adopted:-VOLUME Turn off the master switch. Remove tunnelling. Disconnect the propeller shaft at the front Remove the gear lever. Disconnect the exhaust pipe from the mani-Remove the gearbox stabilizing rod. end only. Remove the rear mounting setscrews. fold. Drain the radiator Disconnect both the heater pipes from the Remove the fan blades. Remove the split pin and coupling flange nut Sling the rear end of the overdrive unit and air cleaner. engine. lift it clear of the tunnelling. (hold the flange with tool GT 34). 24-CARS UNIT-ANNULUS COUPLING FLANCE AUSTIN SERVICE JOURNAL (REMOVING AND REPLACING) **Austin-Healey** 100 Published April 26, 1954 15. Screw tool GT 176 into the oil scal by means 14. Remove the flange using tool GT 2. body. of a spanner located on the flats of the tool tool by means of a spanner on the two flats. or tommy bar, again holding the body of the against the main shaft with either a spanner Continue withdraw the oil scal. 10 Operate the centre bolt of the tool 5 screw Fig. 1 Fig. 2 in the centre SHAL GEARBOX C M bolt to Continued STR 1330 STR 1322 28



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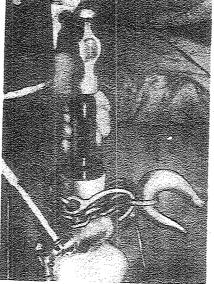
OVERDRIVE REPLACING)—continued UNIT-ANNULUS COUPLING FLANCE OIL SEAL (REMOVING AND

tralize itself over the shaft and will ensure that shoulder inside the housing. and then driven in until it is up against the the housing with its inner lip towards the gearbox, seal should be inserted as squarely as possible in matter if GT 177 is used (Figs. 3 and 4). The new The fitting of a new oil seal is quite an easy GT 177 will cen-



to either oil seal or casing will result. the oil seal is correctly fitted. Thus no damage

necessary, thus saving time and expense. gearbox and GT 177 make the removal and dismantling of the 1 to 14 in reverse order. After fitting the new oil seal refit all items from overdrive unit completely un-Tools GT 176 and



STR 1324

Fig. 4

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GEARBOX

VOLUME

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STR 1331

Fig. 3

VOLUME 24-CARS

A		ano	NOR	11. Prime versus frances i un pun de discultante mantener
ALTERATIONS NOTED	PARTS ORDERED	STOCK CARDS	PARTS LISTS	

5146 on, L.H. Steering. 54 R.H. Steering. 45 L.H. Steering. 5 on, R.H. Steering.

-}-		*
Gearbox number		* To Gearbox number 5154
umber.		x number
5155	514.5	5154

an des de la seconda de la seconda de la seconda de		-			
Туре	Range	Plate	Description	Number per Vehicle	
•	-	B. 41	1st Motion shaft with cone and adaptor (can be replaced by		
		B. 60	conversion set 58G 341) 3rd Speed mainshaft gear with cone and adaptor (can be	·	
Austin- Healey 100	*	B, 66	replaced by conversion set 58G 341) Laygear with bushes (can be replaced by conversion set		IB 3625
			S&G 341)		
	 ÷		1st Motion shaft with cone and adaptor 3rd Speed mainshaft gear with		
	-		cone and adaptor		

SUMMARY OF ALTERATION

Austin-Healey 100

AUSTIN SERVICE JOURNAL

MAINSHAFT

3EAR

quoting part number 58G 341. A conversion set of parts can be obtained by The new parts together should be used to replace They cannot be used separately.

the old ones.

also the 1st motion shaft and the laygear have larger and stronger gear teeth is now being fitted, A modified third speed gear, incorporating

INTERCHANGEABILITY

been modified to suit the new third speed gear.

GEARBOX ŝ

Published September 20, 1954 ALTERATIONS NOTED

YOUR FOR RECORDS PARTS ORDERED STOCK CARDS PARTS LISTS

VOLUME 24.... -CARS

Issue 8

Austin-Healey A 40 A 70 A 70 100 C.864314 C.157909 C.157302 on On on Bush for 3rd speed mainshaft gear ĒG

Healey Austin-Type A 40 100 C.365171-864313 C.89001-157908 C.138031-157301 Range Plate Bush for 3rd speed mainshaft gear Description per Vehicle Number Number B Austin Part 3490 3029 Publication Pubs. Parts List Pub. 1099, Pub. 1050, Gearbox, 853, p. 28 Gearbox, Number ġ ġ à 780A 30] ىي ا

In the interest of standardization of parts, a new bush for the third speed mainshaft gear is now being used. The new bush differs from the old one in that it has an additional oil hole. SUMMARY OF ALTERATION

INTERCHANGEABILITY

when stocks of the old ones are exhausted. The new bush will be supplied for replacements

A 40, A 70, Austin-Healey 100

HSD&

FI O R

SPEED

MAINSEAT

GEAR

P

AUSTIN SERVICE JOURNAL

P

A conversion set of parts can be obtained, by quoting part number 58G 341. ALTERATION ALTERATION ALTERATION B 3625 1B 3695 Publication Number B 3625 B 3625 IB 3697 Publication Number A 70, A 70, Publication Number B 3481 IB 3693 Pub. 780A, pp. 27/28 B 3481 IB 3693 Pub. 780A, pp. 29/30/31	Also being fitted to the A 70 range of vehicles. SUMMARY OF A conversion surple of autoing part number SUMMARY Off Old Part New Part 1st Motion Shaft with cone and adaptor 1 1B 3549 1B 3695 3rd Speed Gear with cone and adaptor 1 1B 3625 1B 3695 Laygear with bushes . 1 1B 3625 1B 3697 Laygear with bushes . . 1 1B 3625 1B 3697 WOUR FOR MRTS LISTS 10460
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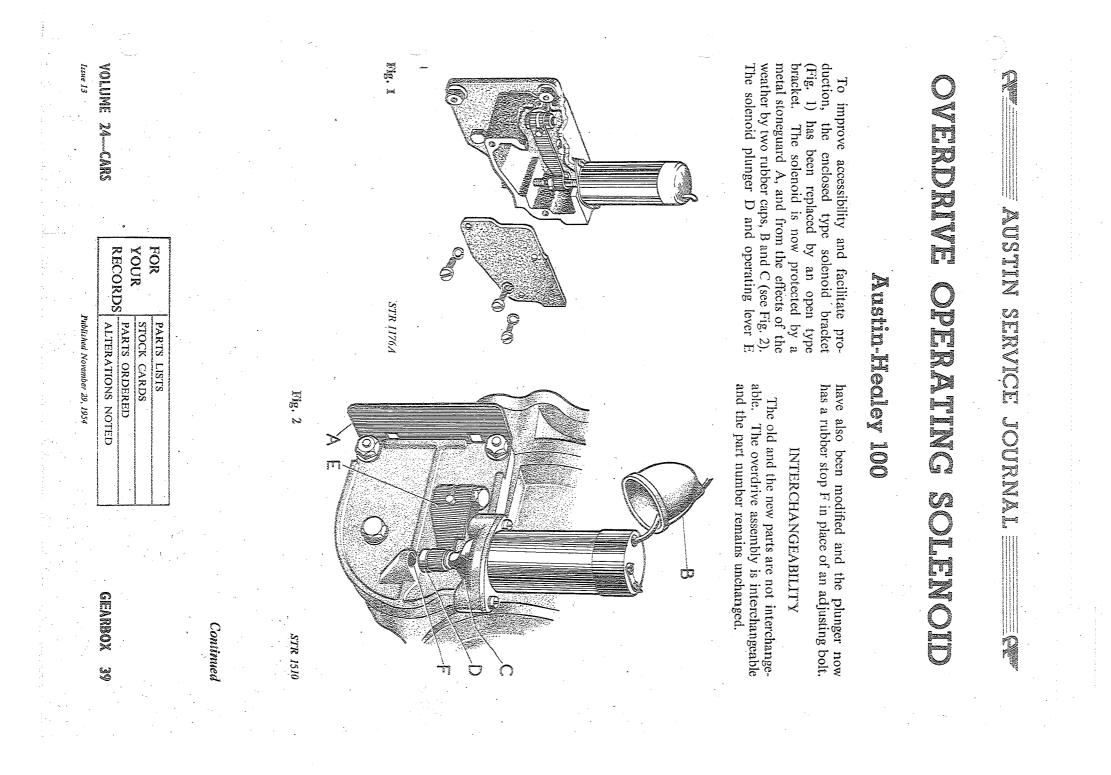
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AUSTIN SERVICE JOURNAL

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OVERDRIVE OPERATING SOLENOID—continued

O/D 28/1292/3773 on	To O/D 28/1292/3772	To O/D 28/1292/3772 O/D Austin- Heator 01	O/D 28/1292/3773 on	To O/D 28/1292/3772	Type Range
3773	/3772 C44 C45	1/3772 /3773	2/3773) 2/3772 C64	nge Plate
Solenoid bracket and side cover for casing Stone guard for solenoid . Rubber stop for solenoid lever	Solenoid bracket and side cover for casing Cover plate for bracket . Screws, cover plate to bracket Spring washers Adjusting screw for sole- noid ever	Collar for shaft Solenoid lever	Operating solenoid, with plunger, and rubber dust covers, for over- drive	Operating solenoid, with plunger, for overdrive. Special screw, plunger to lever	e Description
	ـــــــــــــــــــــــــــــــــــــ				Number per Vehicle
17H 5812 17H 5810 17H 5811	7H 5850 7H 5854 53K 2636 2K 1209 53K 2638 FNN 103	7H 5819 7H 5828 17H 5809 17H 5808	17H 5813	1B 2838 *7H 5896	Austin Part Number
p. 6	Pub. 1050, Gearbox and	Pub. 1050, Gearbox and Overdrive, p. 5	Electrical, p. 2	Pub. 1050,	Parts List Publication Number

* Listed in error as 7H 1086.

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REVERSE FLUSHING OF RADIATORS

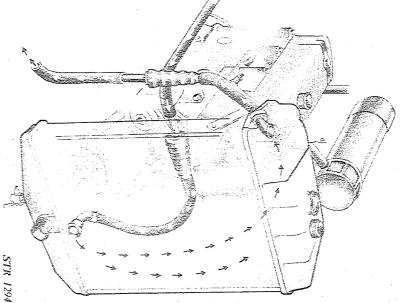
Further to the article appearing in this Journal, Volume 23, section "Radiator", page 1, specially shaped plugs, part number GT 187, have now been introduced so that a radiator can be reverse flushed without resorting to removal from the vehicle.

It is also recommended that a radiator should be flushed twice annually, and flushed particularly after using anti-freeze during winter time.

The adaptor plugs are designed to accommodate all hoses used on Austin vehicles, and no difficulty should be experienced if the following instructions are adhered to.

- Open the radiator drain tap and drain the system. When drained, close the tap. If anti-freeze mixture is present in the system it should be drained into a clean container and replaced after flushing.
- 2. Disconnect the bottom hose from the engine side and insert one of the plugs into the hose.
- 3. Connect an ordinary hose pipe to the plug and to the main water supply.
- 4. Disconnect the radiator top hose from the engine side and fit the second plug into the hose. A length of ordinary hose pipe, long enough to reach the nearest drain, should be fitted to this plug. This will prevent water from flowing over the engine whilst the flushing is in progress.

5. Turn on the tap of the main water supply and let the flushing continue for 15-20 minutes.



Nore: The radiator filler cap should be in position and the drain tap closed whilst flushing. Care should be exercised as to the water pressure applied from the main supply. This should not exceed 20–25 lb. After flushing, drain the radiator by means of the drain tap. Re-connect the hoses to the engine, close the drain tap and fill up with clean water in the usual way.

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FOR YOUR RECORDS PARTS ORDERED ALTERATIONS NOTED Published March 29, 1954

RADIATOR

RECOMMENDED LUBRICANTS 1954

Since the publication of Recommended Lubricants (see this Journal, Vol. 23, section "Repairs Data", pages 7-13) certain changes have occurred necessitating this reprinted revised list.

A 40, A 70, AUSTIN-HEALEY 100

HOME MARKET

MILSINY

SERVICE

JOURNAI

		Duckham's	Vacuum	Shell	Wakefield	Esso	B.P.
Engine	Summer	Duckham's "Nol Thirty"	Mobiloil A	Shell X-100. 30	Castrol XL	Essolube 30	Energol S.A.E. 30
Winter		Duckham's "Nol Twenty"	Mobiloil Arctic	Shell X-100. 20	Castrolite	Essolube 20	Energol S.A.E. 20W
Gearbox	A40, A70	Duckham's "Nol Forty"	Mobiloil B.B.	Shell X-100. 40	Castrol XXL	Essolube 40	Energol S.A.E. 40
Grainna	Austin- Healey 100	Duckham's "Nol Thirty"	Mobiloil A	Shell X-100. 30	Castrol XL	Essolube 30	Energol S.A.E. 30
Rear Axl Box and Nipples	e, Steering Oil	Duckham's Nol E.P.T. 140	Mobilube GX 140	Shell Spirax 140 E.P.	Castrol Hi-Press	Esso Expee Compound 140	Energol E.P. S.A.E. 140
Front Wh	eel Hubs	Duckham's H.B.B. Grease	Mobil Hub Grease	Shell Retinax A	Castrolease Heavy	Esso Grease	Energrease C 3
Distributor and Oil Can		Duckham's "Nol Twenty"	Mobil Handy Oil	Shell X-100. 20	Wakefield Oilit	Esso Handy Oil	Energol S.A.E. 20W
Upper Cy Lubricatio	£	Duckham's Adcoids	Mobil Upperlube	Shell Donax U	Wakefield Castrollo	Essomix	Energol U.C.L.
Rear Roa (A 40)	d Springs	Duckham's Laminoid Liquid	Mobil Spring Oil	Shell Donax P	Castrol Penetrating Oil	Esso Penetrating Oil	Energol Penetrating Oil

Published March 1, 1954

VOLUME Issue 3

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A 40, A 70, AUSTIN-HEALEY 100

OVERSEAS MARKETS

MILSAR

SERVICE

JOURNAL

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l	. 1		1	4		·	
		Duckham's	Vacuum	Shell	Wakefield	Esso	B.P.
	From 90° F. down to 32° F.	Duckham's "Nol Thirty"	Mobiloil A	Shell X-100. 30	Castrol XL	Essolube 30	Energol Motor Oil S.A.E. 30
*Engiı	10 32° F. down to 10° F.	Duckham's "Nol Twenty"	Mobiloil Arctic	Shell X-100. 20	Castrolite	Essolube 20	Energol Motor Oil S.A.E. 20W
O FE O VELANCE IN A	Below 10° F.	Duckham's "Nol Ten"	Mobiloil 10W	Shell X-100. 10W	Castrol Z	Essolube 10	Energol Motor Oil S.A.E. 10W
†Trans mission		Duckham's CG 90	Mobilube C 90	Shell Dentax 90	Castrol ST	Esso Gear Oil S.A.E. 90	Energol Transmission Oil S.A.E. 90
	Austin- Healey 100	Duckham's "Nol Thirty"	Mobiloil A	Shell X-100. 30	Castrol XL	Essolube 30	Energol Motor Oil S.A.E. 30
+Reak	Down to 32° F.	Duckham's Nol E.P.T. 140	Mobilube GX 140	Shell Spirax 140 E.P.	Castrol Hi-Press	Esso XP Compound S.A.E. 140	Energol Transmission Oil E.P. S.A.E. 140
Axle	32° F. to 10° F.	Duckham's Nol E.P.T. 90	Mobilube GX 90	Shell Spirax 90 E.P.	Castrol Hypoy	Esso XP Compound S.A.E. 90	Energol Transmission Oil E.P. S.A.E. 90
‡Steeri **Oil N	ng Box and Nipples	Duckham's Nol E.P.T. 140	Mobilube GX 140	Shell Spirax 140 E.P.	Castrol Hi-Press	Esso XP Compound S.A.E. 140	Energol Transmission Oil E.P. S.A.E. 140
Front \	Wheel Hubs	Duckham's H.B.B. Grease	Mobil Hub Grease	Shell Retinax A	Castrolease Heavy	Esso Bearing Grease	Energrease C 3
Distribu Oil Car	itor and n	Duckham's "Nol Twenty"	Mobil Handy Oil	Shell X-100. 20	Wakefield Oilit	Esso Handy Oil	Energol Motor Oil S.A.E. 20W
Upper (Lubrica	Cylinder tion	Duckham's Adcoids	Mobil Up per lube	Shell Donax U	Wakefield Castrollo	Esso Upper Motor Lubricant	Energol U.C.L.

36 REPAIRS DATA

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A 40, A 70, AUSTIN-HEALEY 100

	Duckham's	Vacuum	Shell	Wakefield	Esso	B.P.
Rear Road Springs (A 40)	Duckham's Laminoid Liquid	Mobil Spring Oil	Shell Donax P	Castrol Penetrating Oil	Esso Penetrating Oil	Energol Penetrating Oil

*Engine: Above 90° F. or for high speed driving at high temperatures use next heavier grade of oil. †Transmission: For prevailing sub-zero (F. °) temperatures use S.A.E. 80 lubricant (A40, A70) and S.A.E. 20 (Austin-Healey 100). ‡Rear Axle and Steering: For prevailing sub-zero (F. °) temperatures use S.A.E. 80 E.P. lubricant. **Oil Nipples: For high temperature climates the grease as shown for hubs can be used. Use only the best standard fluids for hydraulic brakes and shock absorbers.

16-H.P. TAXI AND HIRE-CAR

HOME MARKET

OVERSEAS MARKETS—continued

5							
Engine	Summer	Duckham's "Nol Thirty"	Mobiloil A	Shell X-100. 30	Castrol XL	Essolube 30	Energol S.A.E. 30
THREE	Winter	Duckham's "Nol Twenty"	Mobiloil Arctic	Shell X-100. 20	Castrolite	Essolube 20	Energol S.A.E. 20W
Gearbox		Duckham's "Nol Forty"	Mobiloil B.B.	Shell X-100. 40	Castrol XXL	Essolube 40	Energol S.A.E. 40
Rear Ax	le	Duckham's R	Mobiloil R	Shell Super Heavy	Castrol R	Esso T.S.D. 533	Energol Racing Oil
Steering Oil Nipp	Box and les	Duckham's Nol E.P.T. 140	Mobilube GX 140	Shell Spirax 140 E.P.	Castrol Hi-Press	Esso Expee Compound 140	Energol E.P. S.A.E. 140
Wheel H	lubs	Duckham's H.B.B. Grease	Mobil Hub Grease	Shell Retinax A	Castrolease Heavy	Esso Grease	Energrease C 3
Distribut Oil Can	or and	Duckham's "Nol Twenty"	Mobil Handy Oil	Shell X-100. 20	Wakefield Oilit	~Esso Handy Oil	Energol S.A.E. 20W

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37

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43 REPAIRS DATA

It is apparent that some Dealers are still using grease to lubricate chassis components in spite of the fact that it is clearly stated in the recommended list of lubricants published in this Journal, Service Manuals and Handbooks, that oil should be applied to all chassis nipples with the exception of the hubs. Only when a vehicle is operating under tropical conditions

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should grease be used.

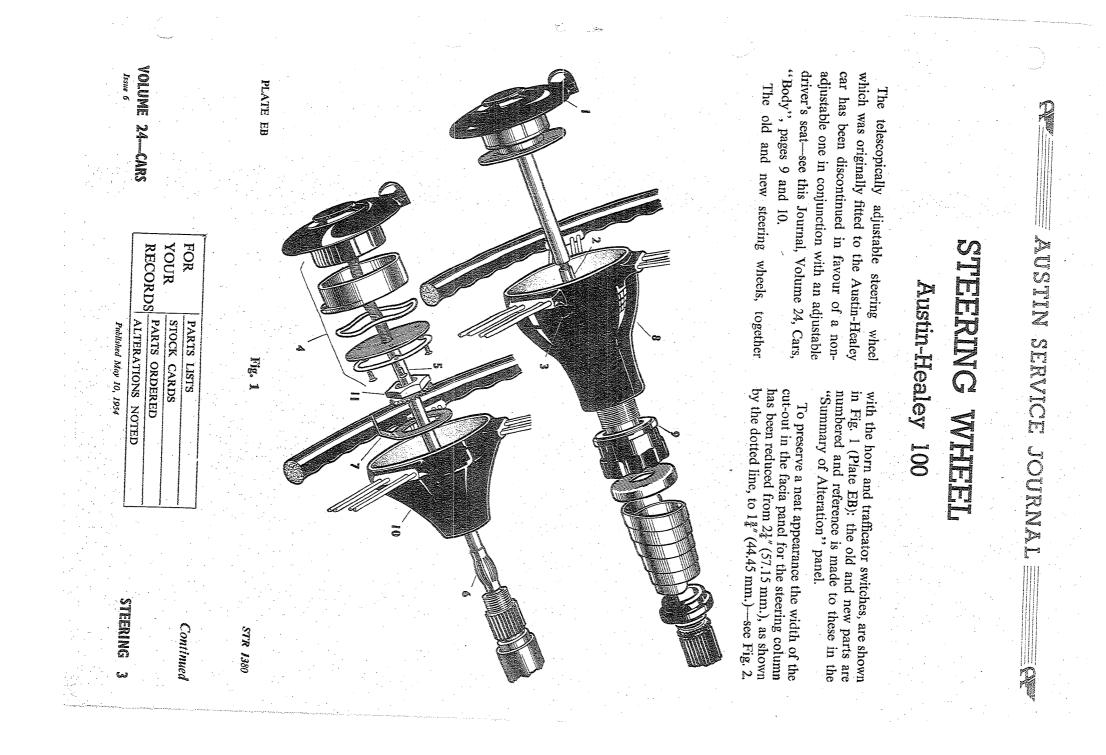
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AUSTIN SERVICE JOURNAL

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À STEERING

VOLUME 24-CARS

Continued

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BN.1	BN.1	BN.1	Туре	Contract of the state of the st
R.H.S. C.138975-149949 L.H.S. C.138031-149929	R.H.S. C.149950 on L.H.S. C.149930 on	R.H.S. C.138975–149949 L.H.S. C.138031–149929	Range	בו קראש אלאלום איזה רוויקלו ששוקאיין באירון איזו דער אבראנא לא לון יש שילי רוו גוויבין וו לאארן או שאלא עובו הע א
	EB.4 EB.5 EB.6 EB.7	EB.1 EB.2 EB.3	Plate	moreneasures
Steering gear assembly, less wheel and lever, R.H. Steering gear assembly, less wheel and lever, L.H. Steer- ing	Horn and trafficator switch on steering column Stator tube Rubber sleeves for stator tube Anti-rattle spring Trip lever	Horn and trafficator switch on steering column Stator tube Retaining screws	Description	u de de la comparativa en la construcción de la devenidade de desenvolución de la construcción de
	<u> </u>	~~~	Number per Vehicle	
1B 6208 1B 6196	17H 5246 7H 5474 3H 677 1G 6261 1H 2635	1B 6225 1B 6226 1B 6210	Austin Part Number	
Pub. 1050, Steering, p. 1	Pub. 1050, Electrical, p. 2		Parts List Publication Number	-

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ALTERATION
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STR 1381

Fig. 2

the non-adjustable steering gear is also fitted.

be used for replacements of the old one unless table steering gear. The new facia panel cannot appropriate steering wheel and trafficator switch

The non-adjustable steering gear with the

INTERCHANGEABILITY

STEERING WHEEL—continued

P

AUSTIN SERVICE JOURNAL

P

with horn push can be used to replace the adjus-

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STEERING WHEEL--continued

SUMMARY OF ALTERATION---continued

	BN.1		BN.1		BN.1	BN.1	Туре
	R.H.S. C.149950 on L.H.S. C.149930 on	18031149929	R.H.S. C.138975-149949		R.H.S. C.149950 on L.H.S.	R.H.S. C.138975149949 L.H.S. C.138031149929	Range
		E.8	E.6 E.5	EB.11		EB.8 EB.9 E.1 E.2 E.3	Plate
Support washer for felt bush	Inner column and cam, R.H. Steering Steering Felt bush	Anti-rattle washers, rubber, for inner column.	Inner column and cam, R.H. Steering . Inner column and cam, L.H. Steering . Felt bush	able) Nut for steering wheel Shakeproof washer	Steering gear assembly, less wheel and lever, R.H. Steering gear assembly, less wheel and lever, L.H. Steering	Steering wheel (telescopically adjustable) Clamping nut Telescopic steel dust cover for inner column Support for dust cover Cup for dust cover	Description
1 7		N		اسبوز اسبوز المعوز			Number per Vehicle
7H 6706	7H 6792 7H 6791 7H 6791		7H 6778 7H 6781 7H 6784	μ.	1B 6217 1B 6219	IB 6203 IB 6204 IB 6211 IB 6214 IB 6215	Austin Part Number
			Steering, p. 1.	Pub. 1050,			Parts List Publication Number

VOLUME 24----CARS

Published May 10, 1954

Continued

STEERING

STEERING WHEEL—continued

a		SUMM	SUMMARY OF ALTERATION—continued	ntinued		
Туре	Range	Plate	Description	Number per Vehicle	Austin Part Number	Parts List Publication Number
BN.1	R.H.S. C.138975-149949 L.H.S. C.138031-149929		*Facia panel, R.H. Steering *Facia panel, L.H. Steering	<u>→ ,</u>	14B 1761 14B 1824	
BN.1	R.H.S. C.149950 on L.H.S. C.149930 on		Facia panel, R.H. Steering Facia panel, L.H. Steering	<u>ند</u> کو	14B 3542 14B 3543	Pub. 1050, Body Shell, p. 2.
BN.1	R.H.S. C.138975 on L.H.S. C.138031 on		*Instrument control panel as- sembly (less instruments) . *Seal (plastic) *Screws *Spring washers	∞ ∞ ⊷	4B 2114 14B 2745 53K 2636 2K 1209	

* Not previously listed.

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STEERING

VOLUME 24-CARS

STEERING

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Published September 20, 1954

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	ALTERATIONS NOTED	RECORDS PARTS ORDERED	STOCK CARDS	AN COLOUR AND

MOLUME 24--CARS

Issue 8

Continued

A 40 Type C.854229 on C.649032-854228 Range Plate End assembly, L.H. thread *Locknut, L.H. thread *Locknut, R.H. thread Clips for covers Dust covers, rubber. End assembly, Steering cross tube with ends Clips for covers Dust covers, rubber Steering side tube Steering side tube with ends, Dust covers, rubber End assembly, L.H. thread End assembly, Steering cross tube with ends Dust covers, rubber Steering side tube Steering side tube left hand right hand . * left hand right hand Not previously listed Description . R.H. thread R.H. with ends, thread with with ends, . ends, Number Vehicle N . . per \sim 17H 17H 2K HZ.I 2K \overline{C} H/ ភ 1G 6210 1G 6211 1G 6216 1G 6217 1G 6217 G \tilde{c} \overline{O} Number 1000 IG 6203 Austin Part 3401 3400 7658 6310 7657 6309 6313 3401 3400 6312 6311 6204 Steering, pp. 9/10 Pub. 1099, Publication Number Parts List

The new cross tubes with ends are inter-changeable with the old ones; end assemblies

when stocks of the old ones are exhausted. are also separately interchangeable. This also applies to the side tubes and the side tube ends. The new parts will be supplied for replacements

SUMMARY OF ALTERATION

INTERCHANGEABILITY

A 70, Austin-Healey 100

*I*А 40,

of ones The steering cross and side tubes with adjustable ball pins have now been discontinued in favour with spring-loaded non-adjustable ball

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AUSTIN SERVICE JOURNAL

STEERING

CROSS

AND

SIDE

TUBES

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pins.

9 STEERING

Contrast of the second s	for a company of the second	SUI	SUMMARY OF ALTERATION—continued	inued		
Туре	Range	Plate	Description	Number per Vehicle	r Austin Part Number	Parts List Publication Number
	C.138031-157623		Side tubes with adjustable ball pins Anti-rattle springs Split pins for sockets Dust covers, rubber Cross tube with adjustable ball pins Cross tube end assembly R H	- 444		
Austin- Healey			thread	222	1G 6216 1G 6217 6K 17 CPS 0316 1G 6210	Pub. 1050,
100	C.157624 on	·	Side tubes with ends	044-	1B 6228 17H 3400 17H 3401 1G 6313	p. 4
		 	Cross tube end assembly, L.H. thread	NN	1G 6309 1G 6310 17H 3400 17H 3401	
	Saloon R.H.S. C.73817-		Side tube with adjustable ball pins, right hand Side tube only, right hand Side tube end assemblies, R.H.	1	1G 6153 1A 6659	
A 70	160021 L.H.S. C.73829– 160045 Pick-Up		thread Locknuts, R. H. thread Ball sockets, bottom Anti-rattle springe	0000	50 7 3	Saloon, Pub. 780A, pp. 40/41
	R.H.S. C.73872- 160089 L.H.S. C.73743- 160903		Split pins for sockets Ball pins Nuts for ball pins Split pins Split pins Dust covers, rubber	~~~~	6K 17 2K 1235 1G 6149 2K 3996 2K 1232 1G 4241 1G 4241 2H 2793	Pick-Up, Pub. 853, pp. 37/38

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Issue 8 VOLUME 24-CARS

Published September 20, 1954

STEERING 10

A 70 Type 160089 L.H.S. C.73743-L.H.S. Saloon R.H.S. Pick-Up R.H.S. C.160090 L.H.S. Saloon R.H.S. L.H.S. C.160904 R.H.S. C.73872 Pick-Up Range C.160046 C.160022 C.73829-C.73817-160021 160903 160045 on 00 on on Plate Clips for covers . Nuts for ball pins Ball pins Split pins for nuts . Cross tube with ends Split pins . Dust covers, rubber Split pins for nuts Locknut, L.H. thread Nuts for ball pins Side tube with ends, left hand Grease nipples Nuts for ball pins Clips for covers Dust covers, rubber Cross tube end assembly, Locknut, R.H. thread Cross tube end assembly, Dust covers, rubber Side tube with ends, right hand. Split pins for ball sockets Locknut, L.H. thread Cross tube end assembly Locknut, R.H. thread Cross tube end assembly, Cross tube only Cross tube with adjustable Grease nipples Split pins for sockets pins, left hand . . . Side tube only, left hand Side tube end assemblies, Side Anti-rattle springs Ball sockets, bottom Dust covers, rubber Split pins . Nuts for ball pins Ball pins Anti-ratile springs Ball sockets, bottom Locknuts, L.H. thread thread thread pins . thread . thread thread tube Description . with adjustable . . R.H. R.H L.H. ball ball H -Number Vehicle per NNNNNNNN 5 NNNN -> ~~~~~ 2K 2K 2K 17H 17H 17H 2K Number H 2K 2K 18 2K21K ЗK 6K 2KB3-255 2K2K 6K ⊼ດ G ົດ \overline{C} 2H 2793 ō ົດ \overline{c} 2K lΒ 2H ົດ 2K ō ō 2K **B**3-256 B B3--254 Austin Part 6149 3996 1232 4237 6148 6149 6154 6310 7658 3996 1232 7657 6309 6227 6311 7658 7657 2793 340 1232 3996 3401 3400 6150 424 1 6149 3996 1232 6150 7658 1235 1235 7 17 Pub. Publication Pick-Up, Pub. 853, pp. 37/38 Parts List pp. 40/41 Saloon, ub. 780A, Number

SUMMARY OF ALTERATION—continued

STEERING

CROSS

AND SIDE TUBES-

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	STEERING	Instances ha haft in the ste vashers which The top cove nd no end floa
		AUST STERRING AUST Instances have occurred where where shaft in the steering idler. This c washers which are fitted beneath th The top cover should be adjusted and no end float of the idler shaft.
	FOR YOUR RECORDS	JSTIN SE NG IDJ A 30, A here a slight "k there a slight "k This can be read ath the idler top tjusted by means shaft.
	PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED	STEERING IDLER ADJUSTING SERVICE JOURNAL STEERING IDLER ADJUSTMEN A 30, A 40, A 70, A 90 Instances have occurred where a slight "knock" in the steering has resulted from end shaft in the steering idler. This can be readily adjusted by removing one or more of the washers which are fitted beneath the idler top cover. The top cover should be adjusted by means of the paper joint washers so that there is no and no end float of the idler shaft.
	JLED	"RVICE JOURNAL LER ADJUST 40, A 70, A 90 nock" in the steering has resulted ily adjusted by removing one or cover. of the paper joint washers so that
۷ W. Unic		ADJURNAL
E Actions (MIN)	J 2	d float of the he paper joint

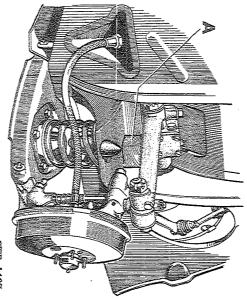
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30, A 40 (Series 2, 3, 4), STEERING a 90, a 125, a 135 A 70, Austin-Healey 100,

X

Whenever it may be necessary to examine or check the front suspension or steering linkage, and the front end has to be jacked up, it is essential that the relative road position of the wheels and suspension be maintained.

This will be achieved if, before jacking up, a distance piece of definite dimensions be placed between the shock absorber arm and the upper spring plate (on each side of the vehicle) as shown at 'A' in the illustration of an A 30 front suspension unit.



STR 1407

As will be seen from this table, with certain exceptions, the dimensions of the distance pieces vary for different models and it is important that the correct distance piece be used.

It is very necessary to use three distance pieces when building up a suspension unit, because the arms must be correctly set before the various bearings are tightened. *DO NOT FORGET* to remove the distance pieces after lowering the jack.

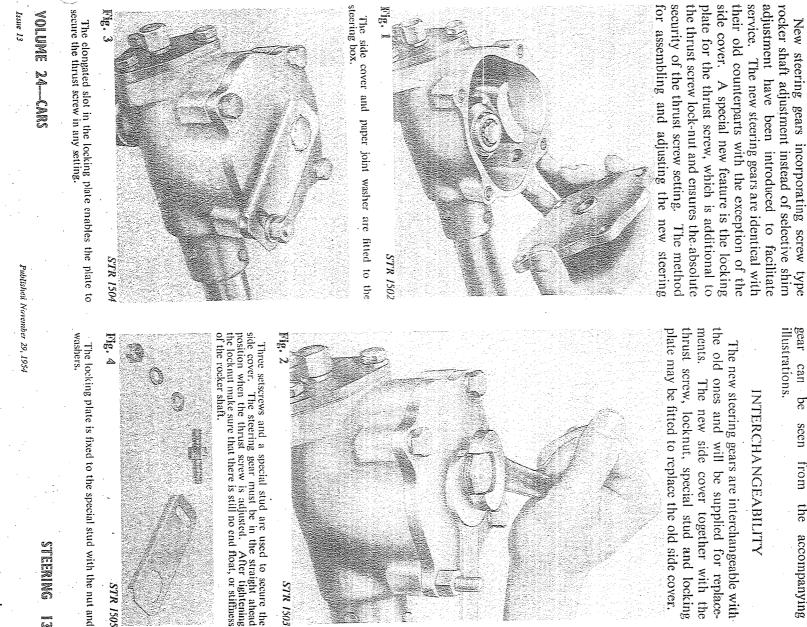
> These distance pieces may be of steel or hardwood, and the following table gives the dimensions for the various models.

A 135	A125	06 V	Austin- Healey 100	A 70	A 40 (Series 4)	A 40 (Series 3)	A 40 (Series]	A 40 (Series 1 2)	A 30	Model	or the var
AII	All	IIV	All	All	All	All .	R.H.S. 288910-609259 L.H.S. 288786-609259	R.H.S. To 288909 L.H.S. To 288785	All	Vehicle Range	or the various models.
, 857 107	15"	2.8"	2"	2.3."	23"	3"	2. 1 ."	$1\frac{3}{4}''$	18"	Dimensions of Distance Piece	Alexy M2 (reg) - prime al for part of the manufacture of the transmission of the manufacture of the manufact

VOLUME 24-CARS

Published October 25, 1954

STEERING



gear can be illustrations. seen from the accompanying

type

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SERVICE JOURNAL

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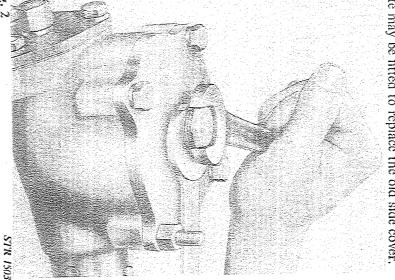
STEERING

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*№ 7*0,

Austin-Healey 100

plate may be fitted to replace the old side cover. The new steering gears are interchangeable with locknut, special stud and locking will be supplied for replacetogether with the



STR 1505

thrust screw is adjusted. After tightening sure that there is still no end float, or stiffness After tight

VOLUME 24-CARS

Continued

RECORDS STOCK CARDS ALTERATIONS NOTED PARTS ORDERED PARTS LISTS

STEERING

100 L.H.S., C.219258 on R.H.S., C.219137 on YOUR FOR Steering wheel Steering gear Steering Steering wheel gear and and assembly, assembly, lever, lever, • R.H. L.H. less less

Healey Austin-A70 Type L.H.S. C.149930-R.H.S., C.149950-C.157723 on R.H.S. L.H.S., C.127135-157722 L.H.S., C.157685 on C.127101-R.H.S. 219136 219257 Range 157684 Plate Steering Steering Steering Steering Cover Plate Steering gear Steering Steering gear wheel wheel and lever, L.H. Steering Cover plate with thrust button Shims (steel) .004"-.005" Spring washers Thrust screw wheel Spring washer Steering Plain washer for stud Special stud for side cover Steering Joint washer, paper Setscrews for cover plate wheel and lever, L.H. Steering ockplate for thrust screw. Locknut for thrust screw wheel Shims (paper) .010" thick Shims (plastic) .002" thick Setscrews Steering wheel and lockplate thick gear gear and and gear and and gear Description assembly, assembly, lever, lever, assembly, assembly, assembly less lever, assembly, lever ÷ L.H. R.H. R.H less • less R.H. less less less as req. as req. as req. Number Vehicle per 4 1B 6269 IB PWZ 106 2K 1211 B B 7H 6801 2K 1211 7H 6799 7H 6800 7H 6700 7H 6704 7H 6744 7H B B Ή 7H 6745 HL7H 6743 H_{L} 18 1B 6267 6219 6217 Number 673 Austin 6232 6230 6758 6744 Part 6750 6190 8819 Steering, p, 1 Pub. 1050, Pubs. 780A, Pub. 853. Publication p. 39 p. 42 Parts List Number

STEERING GEAR ADJUSTMENT --- continued

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		Austin- Healey	STEERING Type
	R.H.S., C.219137 on L.H.S., C.219258 on	R.H.S., C.138975– 219136 L.H.S. C.138031– 219257	G GEAR ADJUSTMENT- Range Plate
•			JUSTIM Plate
	Cover plate, R.H. Steering Cover plate, L.H. Steering Joint washer, paper Setscrews for cover plate Spring washers Locknut for thrust screw Lockplate for thrust screw Special stud for side cover and lockplate Nut for stud Plain washer for nut Spring washer	Cover plate with button, R.H. Steering	ENTcontinued Description
		1 as req. as req. as req. 4	Number per Vehicle
	7H 6802 7H 6803 7H 6744 7H 6700 2K 1211 7H 6704 7H 6704 7H 6704 7H 6801 7H 6801 7H 6801 2K 3985 PWZ 106 2K 1211	7H 6787 7H 6788 7H 6744 7H 6744 7H 6743 7H 6743 7H 6700 2K 1211	Austin Part Number
	p. 1	Pub. 1050,	Parts List Publication Number

r.

Published November 29, 1954

VOLUME 24----CARS Issue 13

STEERING IS

		YTS	
nger life.	pipe to give lo	pe of flexible .8 .8	Remarks: New pipe incorporates an improved type of flexible pipe to give longer life. COMMENCING CHASSIS NUMBERS: R.H. Steering 149648 L.H. Steering 149628
Austin-Healey 100	1B 2954	1B 2700	Exhaust Pipe with flange
Туре	New Part	Old Part	Description
d for replacements of Volume 24, section lect.	181 can be use this Journal, lity' to this ef	ter gear 2A 3 published in terchangeabi	 Remarks: It is now established that the new starter gear 2A 381 can be used for replacements of 2A 292. Therefore, amend statement published in this Journal, Volume 24, section "Engine", page 47, under heading "Interchangeability" to this effect.
A 30 Pub. 883B, Engine, p. 3	2A 381	2A 292	Starter Gear
Type and Parts List Publication Number	New Part	Old Part	Description
a gap of .022" (.55 mm.) instead of .018" (.45 mm.) to prevent mis- speeds. Commencing Engine Number 32850.	.022" (.55 mm.) instead of .018" (.45 r Commencing Engine Number 32850	55 mm.) instea ancing Engine	Remarks : The new plug has a gap of .022" (.: firing at low engine speeds. Comme
A 30 Pub. 883B, Electrical, p. 3	2A 480	2H 4228	Sparking Plugs
Type and Parts List Publication Number	New Part	Old Part	Description

S. . 2

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INTERCHANCEABLE PARTS

(Classical States)

AUSTIN SERVICE JOURNAL QF

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VOLUME Issue S The following parts have been superseded by new ones of modified design or material. These parts are interchangeable with their old counterparts and will be supplied for replacements when stocks of the old ones are exhausted. Remarks: Fibre pad on strap has been repositioned to facilitate assembly. Petrol tank strap **Remarks:** Joint washer for oil reservoir Joint washer for oil reservoir 24-CARS New joint washer provides a more adequate seal round front and rear main bearing studs. INTERCHANCEABLE • Description Description YOUR FOR RECORDS COMMENCING CHASSIS NUMBERS: COMMENCING ENGINE NUMBERS: SUMMARY OF ALTERATION Austin-Healey 100, R.H. Steering A 135 A 125 PARTS ORDERED STOCK CARDS ALTERATIONS NOTED PARTS LISTS Published April 26, 1954 . • 1B **Old Part** Ð IB Old Part 2785 1283 1123 L.H. Steering 11945 10406 ΪB New Part g IΒ New Part 2929 1944 2923 PARTS Type and Parts List Publication Number Pubs. 430A, p. 9, 779, p. 10 Pubs. 603A, p. 11, 730, p. 9, 780A, p. 9, 853, p. 9 Austin-Healey 100 Type and Parts List Publication Number 16-H.P. Hire-Car Pub. 728, p. 9 151610 151608 Pub. 558A, p. 10 STORES Pub. 624, p. 8 16-H.P. Taxi A 135 A 125 A 70 DATA 1

C.

AUSTIN SERVICE JOURNAL

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VOLUME Issue 7 The following parts have been superseded by new ones of modified design or material. These parts are interchangeable with their old counterparts and will be supplied for replacements when stocks of the old ones are exhausted. Remarks: Modified drain plug with an "undercut" at the base of the thread. Washer Drain Plug for petrol tank . Remarks: Stronger spring Tension Spring for seat lock Assembly Remarks: Petrol Filler Cap Remarks: Introduction of a clutch plate Clutch Plate with linings Clutch Plate with linings Clutch Plate with linings 24-CARS New filler cap has a chromium plated finish. INTERCEANCEABLE Description Description Description Description . YOUR FOR RECORDS . . PARTS ALTERATIONS NOTED STOCK CARDS PARTS Published July 19, 1954 suitable for both cars . ORDERED LISTS 14G 2F 2F Old Part Old Part 2A Old Part 7H 7H 7H 3077 Old Part 4249 4250 1781 184 3186 3227 14G 4732 to facilitate service. 2A 6K New Part New Part New Part 2Λ New Part 7H 7H HL 380 638 5381 3201 3201 3201 PARTS Use Austin-Healey 100, Petrol Tank, p. 1. A 70 Type and Parts List Publication Number Type and Parts List Publication Number Type and Parts List Publication Number A 30, Pub. 883B, Petrol Tank, p. Type and Parts List Publication Number STORES DATA Pub. Pub. 883B, Engine, p. 17 with 6K 638 A 40, Pub. 1099, Seats, p. 2. A 70 A 40, AS.1,). 371, p. A 30. Continued 15 ì **\$**

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VOLUME 24-CARS

17 STORES DATA

	·····	-							_				~
	Remarks: New joint washer provides a more adequate seal around main bearing studs. COMMENCING ENGINE NUMBERS:	Joint Washer for oil reservoir				Joint Washer for oil reservoir		Description		Remarks: The new type door casing can be used to replace the old type, providing holes are drilled in the casing to accept the screws, see this Journal, Volume 23, section "Body", pages 37 and 61.	Rear Door Casing, left hand	Rear Door Casing, right hand	Front Door Casing, right hand
	deque Encin	Ð			ż			Old		ed to urna	4B	4B	4B 4B
	ute seal uE Num	1283			1.6.1	11.73	•	Old Part		replace l, Volui	1186	1185	1183 1184
-	around main be BERS:	1D 1944				1R 2023		New Part	a da ann an Anna an Anna ann an Anna an Anna ann an	the old type, p ne 23, section "	4B 1231		4B 1228 4B 1229
•	earing studs.	A 125, Pubs. 430A, p. 9 779, p. 10 A 135, Pub. 624, p. 8	Austin-Healey 100, Pub. 1050, Engine, p. 8	Hire-Car, Pub. 728, p. 9	Taxi, Pub. 558A, p. 10	A 90, Pub. 787, p. 10	A 70, Pubs. 603A, p. 11 730, p. 9 780A, p. 9 853, p. 9	Type and Parts List Publication Number	energe wordt nie oan oerster je oante staat is ontweer in te energen wordt gely gely aante ster faarde oorjeen w	providing holes are drilled "Body", pages 37 and 61.		Pub. 780A, p. 81	A 70,

INTERCHANGEABLE PARTS-continued

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Description

Old Part

New Part

Type and Parts List Publication Number AUSTIN SERVICE JOURNAL

		•	
	Published July 19. 1954	Issue 7	
STORES DATA 18	FOR PARTS LISTS YOUR STOCK CARDS RECORDS PARTS ORDERED ALTERATIONS NOTED	VOLUME 24-CARS	Ċ
	· · · · · ·		
Continued			
mend part number 1B 8817 for clutch pedal pad, R.H. Steering to read 1B 8750.	Page 3. Amend part numb Steering to read	AUSTIN-HEALEY "100", PUBLICATION No. 1050. Section "Controls",	
Parcel Tray, the following:	Page 3. Add after 4G 2119 Parcel Tray, the Clips	Section "Casings".	
Weathershield for private locking device 1 14G 1789 Split pin for weathershield – – 1 2K 1381	Weathershield Split pin for		~
35 Private Locking Device, the fol-	Page 5. Add under 4G 7735 lowing:	Section "Doors".	and the second
ber 1G 3272 for bushes in gearbox to	Page 7. Amend part number read ALT-136.	Section "Controls",	
J Dust Cover no longer fitted.	Sports C. 614776–753428 Remarks: Dust Co		Ę
	Commercial C. 609133-845033		
Dust Cover - 1 - 1G 3420	Acta		2
Dust Cover 1G 3420	Page 4. Delete item 25:	Section "Gearbox".	
Amend part number 7H 903 for Repair Kit for pump to read P 147.	Page 23. Amend part numl read P 147.	A 40 PARTS LIST, PUBLICATION No. 1099, Section "Engine".	
number 3H 5478 for Lock Cover and to read 3A 5478.	Page 1. Amend part number 3H 54 Escutcheon to read 3A 5478	A 30 PARTS LIST, PUBLICATION No. 883B, Section "Boot".	
F.T.T.F.R.A.T.ORF	MENDWENTS TO L	AMEND	
NAL OF	AUSTIN SERVICE JOURNAL	Au	

19 STORES DATA	Page 6. Page 25.	THE AUSTIN SERVICE JOURNAL, Page CARS-VOLUME 24. Section "Engine".	THE AUSTIN SERVICE JOURNAL, Page CARS—VOLUME 23. Section "Axle—Front".	THE AUSTIN SERVICE JOURNAL, Page 19. CARS—VOLUME 20. Section "Transmission".	Page	Page	A 125 and A 135, Page SCHEDULE OF REPAIR CHARGES, PUBLICATION No. 1086.	A 70 SCHEDULE OF REPAIR Page CHARGES, PUBLICATION No. 1084.	Section "Controls".	AMENDMENTS TO LITERATURE—continued AUSTIN-HEALEY "100" PUBLICATION No. 1050—continued.
Continued VOLUME 24CARS	 6. Add the following data under "Commencing Chassis Numbers": 10480 A 125, L.H. Steering 10480 25. Amend Adaptor for oil filter (use 11B 190 with 2K 3150 setscrews) to read Adaptor for oil filter (use 11B 190 with 2K 3174 setscrews). 	1. Add the following data under "Commencing Engine Numbers": A 70 Saloon - - 204884 A 70 Pick-Up - - - - 174870	 Add the following data under "Commencing Chassis Numbers": Hire-Car, R.H. Steering 155737 	 Add the following Commencing Chassis Number:	 Amend repair charge for operation number BM 3 (Remove and refit radiator cowl) to read £1 16s. 0d. instead of £2 2s. 0d. for A 125 and A 135. 	 Amend repair charge for operation number B3 (Adjust brakes, including bleeding) to read 12/- instead of 6/- for A 125 and A 135. 	 Amend repair charge for operation number E 23 (Remove and refit radiator) to read £2 2s. 0d. instead of £1 16s. 0d. for A 125 and A 135. 	 Amend repair charge for operation number EE 10 (Side lamp bulb, remove and refit) to read 2/- instead of 6/- for BS.3, BK.3 and BW.4. 	3. Item 47Amend: Nut 1 2K 3978 to read: Nut, B.S.F. (R.H. Steering) - 1 - 2K 3978 Add: Nut, U.N.F. (L.H. Steering) - 1 - FNZ 107	nuea

 Amend item number 7 to read as follows:		A 30 PARTS LIST, PUBLICATION No. 883B/3. A 30 PARTS LIST, PUBLICATION No. 883/4. Publication No. 883/4.
ATURE ATURE tem number 7 to read as follows:		883B/3. 883/4.
RATURE. tem number 7 to read as follows: for inlet and exhaust ifold - outer for inlet and outer for inlet and ust manifolds 2 outer for inlet and ust manifolds - 2 - 52K 43 part number 52K 1566 for Bolt to bracket 1BZ 0509. - 14A 678; el, rear, lower and el, rear, lower and pron assembly - 1 - 14A 24	Ame re Add	
RATURE, tem number 7 to read as follows: for inlet and exhaust ufold	Ame	A 30 PARTS LIST, Page 6. PUBLICATION No. 883B/1.
RATURE;		A 30 PARTS LIST, Page 11. PUBLICATION No. 883B. Section "Engine". Page 16.
-	4	Remarks: Change of material only. AMENDMENTS TO
1 14B 3790 Austin-Healey 100, 2 14B 3791 Pub. 1050, 4 100 Heater, p. 1	4G 9761 4G 9762	Flexible Hose Demister, 14" long .
New Part Type and Parts List New Part Publication Number	Old Part	Description
		Remarks: Part number change only.
A 125, Pubs. 430A, p. 24, 779, p. 27 A 135, Pub. 624, p. 25	ID 3561	Oil Seal
New Part Type and Parts List Publication Number	Old Part	Description
	oords.	Remarks: Part number change only to assist records.
A 70, 1B 7335 Pub. 780A, p. 45 A 90, Pub. 787, p. 50	B3-174	Gear Carrier with differential case and gears .
New Part Type and Parts List New Part Publication Number	Old Part	Description

2A STORES DATA	JIST, No.	16-H.P. HIRE-CAR PARTS LIST, PUTRIJCATION No. 728.	Section "Electrical". Section "Engine".	Section "Bumpers".	Section "Heater". AUSTIN-HEALEY 100 PARTS LIST, PUBLICATION No. 1050. Section "Boot".	AUSTIN S TO LITERATURE- PARTS LIST, No. 1099.
continued VOLUME 24CARS	Page 82. Amend item 17: Sealing Rubbers 2 - 8D 2892 to read: Add: Sealing Rubber, right hand - 1 - 8D 2892 Sealing Rubber, left hand - 1 - 8D 6559	 Page 14. Delete the following which has been listed in error: Pulley for fan and Export water pump chot 1 - 1B 2172 Distance piece climates) Page 9. Amend part number 1B 1375 for Dust Cap to read 1B 1735. 	 Page 1. Amend part number 2H 3061 for Speedometer, miles, to read 3H 2061. Page 1. Add the following after item 1: Short Block Assembly, cylinder block with pistons, connecting rods, crank	Page 1. Add the following: Front number plate with Front number plate with brackets (Home Market only) - 1 - 1B 8937 Rear Number Plate - 1 - 1B 8937 Bolts to bracket - - 1 - 1B 8940 Nuts for bolts - - 2 - HZS 0404 Nuts for bolts - - 2 - FNZ 104 Plain washers - - 2 - FNZ 104 (For Rear Number Plate Bracket, refer to Body Equipment, page 1.)		SERVICE JOURNAL -continued Page 33. Amend part number 7H 3063 for Pressure plate to read 7H 3057.

STORES DATA 26

FOR NOUK RECORDS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED PARTS LISTS Remarks: Modified section to give improved protection against the weather Windscreen bottom weather strip Description Old Part 14B 1863 New Part 14B 3778 Austin-Healey 100 Pub. 1050, Windscreen, Type and Parts List Publication Number ö ;**___**

Remarks: Higher grade material. Differential shafts Remarks: Valve oil seals. Description Improved seal to reduce oil consumption • • • **AEF 112** Old Part 1B 7231 New Part **AEK 113** 1B 7475 A 135, Pub. 624, Taxi, Pub. 558A, Hire-Car, Pub. 72 A 70, Pubs. 780A, A 70, Pub. 780A, p. 46 A 90, Pub. 787, p. 52 A 125, Pubs. 430A, Type and Parts List Publication Number ,628 779, 728, Ģ ġ ġ ò ò ö ò

Description Old Part New Part Type and Parts List Publication Number

Remarks: Manifold now has a boss which can be tapped to provide operated windscreen washer. æ Pub. 883B, Engine,

Inlet manifold with plug Description **Old** Part 2A 107 2A 538 New Part Type and Parts List Publication Number \geq 30 ò

The following parts have been superseded by new ones of modified design or material. These parts are interchangeable with their old counterparts and will be supplied for replacements when stocks of the old ones are exhausted.

INTERCHANCEABLE

PARTS

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AUSTIN SERVICE JOURNAL

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24-CARS

VOLUME

27 STORES DATA	Section "Electrical",		AUSTIN-HEALEY 100, PUBLICATION 1050, Section "Engine".		A 40 PARTS LIST, PUBLICATION 1099, Section "Gearbox"	FUBLICATION 883B/2.	A 30 PARTS LIST,
FOR YOUR RECORDS		· · · · · · · · · · · · · · · · · · ·					MENDMENTS S LIST, Page 2.
PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED	Page 4.	Page 16.	Page 15.		Page 15.		4
IS RDS DERED DNS NOTED	Amend part number 3B 50 for Grommet, flasher cable through dash, to read 11G 2053. Continues	Amend item 17. Joint washer to crankcase To read : Joint washers to crankcase and oil filter	Add after item 3; Rubber cover for petrol pump 1 Remarks: Protection against weather. Chassis Number 160315.	crankcase	Amend item 6. Setscrews $(\frac{3}{8}^n$ B.S.F. $\times \frac{5}{8}^n$ long), mounting plate to	Washers for nuts	TO LITERA
VOLUME 24-	 or Grommet, flas i 2053. (1 6 2	ump 1 – 1 t weather. Comm	$\frac{5}{8}$ " = 8 = 1 to 8 = 1 ial. Commencing	õ «	ії. Ф. Ф. Ф. С.	
4-CARS	sher cable Continue d	1B 123 1B 12	11B 2003 mencing—	2K 3136 2K 6404 1g—Engine		2K 5319 PWZ 105 2K 8606	

STORES DATA 28	2	
In the A 40 Parts List, Volume 1, Publication 1099, a list of special parts (including standard L.H. Steering parts) is given to enable an A40 Somerset Saloon, R.H. Steering, to be converted to dual steering control. As this model is now out of production the special parts (NOT normal L.H. steering parts) are not now available. Therefore the last page in the parts list, namely "Special Parts 1" is now cancelled.	In the A 40 Parts List, Volume 1, Publication 1099, a list of special parts (incl parts) is given to enable an A40 Somerset Saloon, R.H. Steering, to be converted this model is now out of production the special parts (NOT normal L.H. steering Therefore the last page in the parts list, namely "Special Parts 1" is now cancelled.	In the A 40 Parts 1 parts) is given to enal this model is now out Therefore the last pag
Somerset	л 40	
DUAL STEERING CONTROL	DUAL STEER	
T. N. ZIMI CI N. ZIMI K	SPECIAL A	
Delete the words "in pairs" after part numbers 1G 1629 and 1G 1631.	Page 25.	
In the left hand column, line 8, amend the word "tank" to read "pipe".	VICE JOURNAL, Page 6. ^A ,	THE AUSTIN SERVICE JOURNAL, CARS—VOLUME 24, Section "Stores Data"
Amend part number ALT-14 for Clips for rubber connection, water outlet pipe to radiator to read 8G 632. Amend part number ALT-14 for Clips for rubber con- nection, radiator to water pump to read 8G 632.	Page 48. A.	16-H.P. TAXI, Publication 558A
Amend part number ALT-14 for Clips for rubber connection, water outlet pipe to radiator to read 8G 632. Amend part number ALT-14 for Clips for rubber con- nection, radiator to water pump to read 8G 632.	Page 50.	16-H.P. HIRE-CAR, PUBLICATION 728.
Add after item 13 the following: Plugs, front bumper apron panel 2 - 3H 926	nent". Page 1.	Section "Body Equipment"
Cancel item 9. Shouldered screws - 2 - 14B 1861 Add after item 15: Windscreen security spring assembly 1 - 4B 5389	00, Page 1.	AUSTIN-HEALEY 100, PUBLICATION 1050. Section "Windscreen".
	AMENDMENTS TO LITERATURE-continued	AMENDMENTS TO
JOURNAL	AUSTIN SERVICE	

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Published October 25, 1954

STORES DATA 28

VOLUME 24----CARS

STORES DATA 29	LED NOTED 9, 1954	PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED Published November 29, 1954	VOLUME 24-CARS
Continued	S MARY ON THE YOUR COMPLEX COMPLEX AND A C	na fan fan fan fan fan fan fan fan fan f	Remarks: Improved method of sealing.
Austin-Healey 100 Pub. 1050, Boot, p. 1	14B 2852	14B 2503	Sealing rubbers for petrol tank mounting
Type and Parts List Publication Number	New Part	Old Part	Descriptic
215001 211001 211030	NUMBERS:	COMMENCING ENGINE NUMBERS: A 70	Accumations influential change. Commen
16-H.P. Hire-Car Pub. 728, p. 4			
16-H.P. Taxi Pub. 558A, p. 4	11B 200	1B 2376	Pistons with rings and gudgeon pin .
A 70 Pubs. 780A, p. 4 853, p. 4			
Type and Parts List Publication Number	New Part	Old Part	Description
	Never Never Management and Annual Annual State	ng see geven to a sport of a sector and a sport of the sp	Remarks: Alternative type.
A 40 Pub. 1099, Body Equipment, pp. 1/2			
883B/3, p. 22 883B/3, p. 16 883B/4, p. 20	14G 5824	14G 1761	Licence holder
A 30 Pubs. 883B, Body Equipment, p. 1	-	· · · · · · · · · · · · · · · · · · ·	
Type and Parts List Publication Number	New Part	Old Part	Description
design or material. These parts r replacements when stocks of the	nes of modified be supplied fo	led by new or parts and will	The following parts have been superseded by new ones of modified design or material. These parts are interchangeable with their old counterparts and will be supplied for replacements when stocks of the old ones are exhausted.
PARTS	CHANGEABLE		INTERCHA

AUSTIN SERVICE

JOURNAL

ATTON 780A Page 95. Annead iten 12 for Clips for hose 2 - 14G 799 To weat:- Clips for hose 34' diameter 2 - 14G 799 Page 21. Armond iten 22 - 14G 560 Body Spilt Page 21. Armond iten 22 - 14G 560 Body Spilt Page 21. Armond iten 22 - 14G 560 Body Spilt Page 1. Add the following:- 2 - 14G 560 Body Shell" Page 1. Add after pert number 14B 850 600 79 Body Shell" Page 1. Add after pert number 14B 850 70 76 Body Shell" Page 1. Add after pert number 14B 850 70 76 Body Shell" Page 1. Add after pert number 14B 76 76 76 Radiator grile surround = 1 - 14G 560 70 76 Rubber grounnet, Fue 1 - 14G 560 79 76 Rubber grounnet, Fue 1 - 14G 16G 14G 16G	STORES DATA 33	ST.		volume 24-CARS
T. Page 95. Amend item 12 for Clips for hose s ⁴ diameter 2 -14G To read (S3)1. Page 21. Amend item 22 Clips for hose 3¼" diameter 2 -14G To read (S00. Clips for hose 3¼" diameter 2 -14G To read (S00. Page 1. Add the following: (Clips for hose 3¼" diameter 2 -14G Page 1. Add the following: (s00. Page 1. Add after item 24 the following: (ning hose for buffers for blanking ming hose for buffers 2 -14B Page 1. Add after item 24 the following: (s01 the following: (s01 the following): (s01 the following): (s02 the following): (s01 the		• • • •		
T., Page 95. Amend item 12 for Clips for hose with ameter 2 - 14G To read:				
T., Page 95. Amend item 12 for Clips for hose 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: 2 - 14G Clips for hose $3\frac{1}{4}$ " diameter 2 - 14G To read: Page 1. Add after item 22 the following: Radiator grille - - - 1 - - 14B Radiator grille surround 1 - 14B ISO the following: - - 1 - 14B Radiator grille surround 1 - 14B ISO the following:- - - 14B IBSO the following:- - -	Continued			
T, 80A Page 95. Amend item 12 for Clips for hose $\frac{4k'}{10}$ diameter $ -$ 2 - 14G To read: T Page 21. Amend item 22 Clips for hose $3\frac{4}{3}$ diameter $-$ 2 - 14G To read: T Page 21. Amend item 22 Clips for hose $3\frac{4}{3}$ diameter $-$ 2 - 14G To read: Y 100 PARTS LIST. Page 1. Add the following: fixing holes for blanking fixing holes for brake fluid container, R.H. Steering $-$ 2 - 14G I'' Page 1. Add after item 24 the following: Rubber buffers for blanking the Radiator grille $ -$ 1 - 1 Page 1. Add after part number 14B 1850 the following: Rubber grommet, to body, right hand $ -$ 12 - 14B Page 1. Add after item 13: Rubber grommet, bumper spring bar to body, left hand $ -$ 1 - 1A Page 1. Add after item 13: Rubber grommet, bumper spring bar to body, left hand $ -$ 1 - 1A Page 1. Add after item 13: Add after item 10 to read: To C.156839 (Fixing rods, B.S.F. thread)(Fixing rods, Add after item 10: -	- 1B - 2K 2K	C.156840 Fixing rods, U.N.F. thread – – Washers – – – – Spring washers – – –		· · ·
T, 80A Page 95. Amend item 12 for Clips for hose To read:— Clips for hose $3\frac{1}{2}^w$ diameter - 2 - 14G T Page 21. Amend item 22 Clips for hose $3\frac{1}{2}^w$ diameter - 2 - 14G T Page 21. Amend item 22 Clips for hose $3\frac{1}{2}^w$ diameter - 2 - 14G To read:— Clips for hose $3\frac{1}{2}^w$ diameter - 2 - 14G V 100 PARTS LIST. Page 1. Add the following:— Rubber buffers for blanking fixing holes for brake fluid container, R.H. Steering - 2 - 3H Page 1. Add after item 24 the following:— Rubber buffers - 2 - 14B Page 1. Add after part number 14B 1850 the following:— Rubber grommet, 2 - 14B Page 1. Add after item 13:— Rubber grommet, 1 - 14B Page 1. Add after item 13:— Rubber grommet, 1 - 1A Page 1. Add after item 13:— Rubber grommet, 1 - 1A Nubber grommet, rear bunper spring bar to body, left hand = - 1 - 1A	- 3H	Amend item 10 to read: To C.156839 (Fixing rods, B.S.F. thread) Add after item 10:	-	Section "Electrical"
T, 80A Page 95. Amend item 12 for Clips for hose Clips for hose $3\frac{1}{2}$ " diameter 2 14G To read: (S3/1). Page 21. Amend item 22 Clips for hose $3\frac{1}{2}$ " diameter 2 - 14G To read: (S0, 050. Page 1. Add the following: (Clips for hose $3\frac{1}{2}$ " diameter 2 - 14G W' Page 1. Add the following: (Clips for hose $3\frac{1}{2}$ " diameter 2 - 14G W' Page 1. Add the following: (Clips for buffers for blanking fixing holes for brake fluid container, R.H. Steering 2 - 3H W' Page 1. Add after item 24 the following: (Rubber buffers 2 - 14B Page 1. Add after part number 14B 1850 the following: (Radiator grille 1 - 14B - 14B Page 1. Add after part number 14B 1850 the following:- (1 - 14B) - 14B - 14B Page 1. Add after part number 14B 1850 the following:- (1 - 14B) - 1 - 14B Rubber grown grille surround - 1 - 14B Serows, self-tapping - 12 - PTZ - Page 1. Add after item 13: - 1 Nubber grownnet, (butpy, right hand -	1 - 1A 9308	bar		
		met, nd -		Section "Bumpers"
A Page 95. Amend item 12 for Clips for hose " $ib"$ diameter $ -$ 214GTo read: Clips for hose $3\frac{1}{2}"$ diameter $-$ 2- 14GPage 21. Amend item 22 Clips for hose $3ib"$ diameter 2- 14G100 PARTS LIST.Page 1. Add the following: Rubber buffers for blanking fixing holes for brake fluid container, R.H. Steering - Rubber buffers2 - 14GPage 1. Add after item 24 the following: Rubber buffers2 - 14B	following:- - 14B - 14B 2 - 14B 2 - PTZ	Add after part number 14B 1850 t Radiator grille		Section "Bonnet"
Page 95. Amend item 12 for Clips for hose $i^{h''}$ diameter 2 - 14G To read: Clips for hose $3\frac{1}{2}$ " diameter 2 - 14G Page 21. Amend item 22 2 - 14G Page 21. Amend item 22 2 - 14G To read: Clips for hose $3\frac{1}{2}$ " diameter 2 - 14G To read: Clips for hose $3\frac{1}{2}$ " diameter 2 - 14G ARTS LIST. Page 1. Add the following: 2 - 14G Rubber buffers for blanking fixing holes for brake fluid container, R.H. Steering - 2 - 3H	- 14B			Section "Body Shell"
Page 95.Amend item 12 for Clips for hose $"b"$ diameter2- 14GTo read: Clips for hose $3\frac{1}{2}"$ diameter2- 14GPage 21.Amend item 22 Clips for hose $3\frac{1}{3}"$ diameter2- 14GClips for hose $3\frac{1}{3}"$ diameter2- 14GClips for hose $3\frac{1}{3}"$ diameter2- 14G	- 3H	· >	Page	AUSTIN-HEALEY 100 PARTS LIST. PUBLICATION 1050. Section "Body Equipment"
Page 95. Amend item 12 for Clips for hose "is" diameter 2 - 14G To read: Clips for hose 3½" diameter - 2 - 14G	- 14G	Ta	Page 21	A 70 PARTS LIST PUBLICATION 853/1.
	2 - 14G 2 - 14G		Page 95	A 70 PARTS LIST, PUBLICATION 780A
MENTS TO LITERATURE-continued				

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3 STORES DATA

Amend reference to 14A 2861 for Brackets, front seat pivot tube, to read 14A 2581.

Page 23.

Section "Stores Data"

Page 21.

Delete the following from the

Range column of the

 Summary of Alteration panel:

 AS.4
 To B. 405107

 AS.4
 B. 405108 on.

support floor Stiffener, whee Stiffener, Stiffener, Mounting Mounting bracket, Stiffener, Support trunk floor, front Support trunk floor, side, Reinforcement for angle support forcement rear mounting (rear) rear mounting rear mounting (rear) rear mounting left hand right hand wheelarch bracket wheelarch wheelarch wheelarch remfront and ð б ö 5 ł 14G 4G 9398 **4** 40 4<u>0</u> â 40 40 â 4<u>0</u> 8618 9916 9913

Commencing Chassis Number: Amend the quantity of part number Washer plates to read 4 instead of 6. Add the following, after:---Plain washers Plain washers (small) ł $\omega \omega$ 1 1 PWZ PWZ

104 106

AUSTIN-HEALEY 100 PARTS LIST, PUBLICATION 1050. Section "Electrical"

AMENDMENTS

TO

LITERATURE.

-continued

Page

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Add after item 30:-

Rubber rings for side lamp

cables --

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2

2H

33

AUSTIN

SERVICE

JOURNAL

- OR

Section "Seats"

Page

-

part number 14B 2881,

for

R.H. Steering L.H. Steering 1 144659

Paint touch-up pencil 2A

5377

ယ Add under 2K 1209, for Spring washer, in Summary of

Page 71. Add the following:

Remarks: When ordering state colour required.

Page

Cars—Volume 24. Section "Body"

THE AUSTIN SERVICE JOURNAL,

A 125 PARTS LIST, PUBLICATION 430A

9915 9914

	4	Published December 13, 1954	Publishe	1
STORES DATA 35	NOTED	ALTERATIONS NO	KECORDS ALTE	VOLUME 2A-CARS
	radian tar tara may tapa ang panjan na ang tang na ang na	PARTS ORDERED	â	. •
•	na la constante a la constante a la constante de la constante de la constante de la constante de la constante e	PARTS LISTS STOCK CARDS		
Continued		• • •		· · · · · · · · · · · · · · · · · · ·
	LA KEN NOR NOT THE TANK AND AN IN THE ANA AND AND AND AND AND AND AND AND AND	at rad you wood a submarial way	material specification	Remarks: Improved material specification
Front Suspension, p. 1	ARAIONANANAN MANANANANANANANANANANANANANANANA	אליטאראנאיץ איצבע אינודעראין איזעראנאין אינעראין איזעראין איזעראין איזעראין איזעראין איזעראין איזעראין איזעראי אוינעראין איזעראין אי		
Austin-Healey 100 Pub. 1050				-
853, p. 33				•
A 70 Pube 780A n 36	•			
Front Suspension, p. 1	1G 4505	1A 4764	•	Cork rings
A 40/A 50				- - -
A 40 Pub, 1099				· · · · · ·
	2.A 4177	2A 4165	un fra funda entente a construction de la const	Cork rings, small .
A 30 Pub. 883B/2. p. 21	2A 4178	2A 4063	•	Cork rings, large .
Type and Parts List Publication Number	New Part	Old Part	tion	Description
na na tanàna kaominina mikana kaominina dia kaominina dia kaominina mpikambana amin'ny tanàna dia mampikambana Ny faritr'ora dia kaominina d	n na	a felt seal.	I now fitted, instead of	Remarks: Rubber seal now fitted,
Floor Fittings, p. 1 883B/1, p. 17 883B/3, p. 12 883B/4, p. 16	14A 3591		rake cover plate	Sealing washer handbrake cover plate
A 30 Pubs. 883B	uussaaaa ka	14A 803	plate	Felt, handbrake cover plate
Type and Parts List Publication Number	New Part	Old Part	tion	Description
	ALTERATION		SUMMARY OF	
The following parts have been superseded by new ones of modified design or material. These parts are interchangeable with their old counterparts and will be supplied for replacements when stocks of the old ones are exhausted.	f modified design supplied for rep	new ones o and will be	ve been superseded by their old counterparts ed.	The following parts have are interchangeable with the the old ones are exhausted.
PARTS			INTERCHANCEABLE	

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AUSTIN SERVICE JOURNAL

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CAR ENGINE AND CHASSIS SERIAL NUMBERS

The system of giving cars a separate engine and chassis serial number has now been discontinued in favour of a joint car/engine serial number. The body will continue to have a separate serial number. The following list shows the last chassis number and the first car/engine number for each range of The abbreviation C.E. will be used in parts lists to indicate a car/engine number.

The car/engine serial number system has been in use from the outset of production in the case of the A 40/A 50 Cambridge. It should be noted that all cars in the A 70, Austin-Healey 100, 16-H.P. Taxi and Hire Car range will share the same serial number sequence. A 30, A 40/A 50, A 125 and A 135, have each had a separate range allocated to them.

	16 H.P. Taxi and Hire Car	Austin-Healey 100	A 70 161964	A 30	Model
	162/037	161885	161964 219000	72037	Finishing Chassis Number
121000	219000	219000	219000	73000	

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STORES DATA

VOLUME

24-CARS

STORES DATA 39

FOR PARTS LISTS
YOUR STOCK CARDS
RECORDS ALTERATIONS NOTED
Published January 24, 1955

VOLUME 24—CARS

, Continued

nanan kerangan kerang		ngth.	Remarks : Thicker flange to increase strength.
Austin-Healey 100 Pub. 1050, Engine, p. 9.	11B 262	1B 2811	Valve spring cup
A70 Pubs. 780A, p. 5, 853, p. 5, 16-H.P. Taxi Pub. 558A, p. 5. 16-H.P. Hire-Car Pub. 728, p. 5. A125 Pubs. 430A, p. 5. 779, p. 5. A135 Pub. 624, p. 5.	11B 263	1B 2875	Valve spring cup
Type and Parts List Publication Number	New Part	Old Part	Description

		
Remarks: Modified drilling to improve oil feed to front layshaft bearing.	Layshaft	Description
	1B 3329	Old Part
	1B 3702	New Part
	A70, Pubs. 780A, p. 31. 853, p. 28. A90, Pub. 787, p. 34. Austin-Healey 100 Pub. 1050, Gearbox, p. 3.	Type and Parts List Publication Number

The following parts have been superseded by new ones of modified design or material. These parts are interchangeable with their old counterparts and will be supplied for replacements when stocks of the old ones are exhausted.

INTERCHANGEABLE PARTS

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AUSTIN SERVICE JOURNAL

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VOLUME 24-CARS

40 STORES DATA

$1 D_{11} (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2$					
11B 340 Austin-Healey 100	111	ALLE RY	•	•	OII reservoir
A90		·			
853, p. 9.					
Pubs. /80A, p. 9,					
A70					
and and a set of the		and the descent of the second s	and a read by be represented and on the representation of the second second second second second second second	در ها المحمد مع الحالي في الله معالم مؤال إن المال المالية الموالية من عند والمالية المالية المالية ومعالمة مع	4 Deter Freedom State Association and Association State State Associations
New Part Publication Number	Nev	Old Part		Description	-

	annayon ta Baalanna annaich leis heir de franceacht sa ann an fog a s an		
A40/50 A40/50 Pub. 1099A, Petrol Tank, p.1.	11G 2063	1G 2690	Tank unit for gauge
Type and Parts List Publication Number	New Part	Old Part	Description
			Remarks: Improved material.
Austin-Healey 100 Pub. 1050, Engine, p. 4.			
Pub. 728, p. 7.	11B 231	IB 2373	Crankshaft gear .

Description Old Part New Part A70 Pubs. 780A, p. 7 853, p. 6. 16-H P Hire-Car Type and Parts List Publication Number

AUSTIN SERVICE JOURNAL

INTERCHANGEABLE PARTS-continued

Continued
A70 PARTS LIST, Page 40. Amend part number 3H 3127, for Oil seal, to read PUBLICATION 853. 3H 3132.
A70 PARTS LIST, Page 44. Amend part number 3H 3127, for Oil seal, to read PUBLICATION 780A. 3H 3132.
Section "Steering". Page 3. Amend part number 3H 3127, for Oil scal, to read 3H 3132.
THE AUSTIN-HEALEY 100, Page 7. Amend part number 52K 3028, for Bolts rubber PUBLICATION 1050, mountings to frame, to read HZS 0507. Section "Gearbox and Overdrive" Overdrive"
Section "Petrol Tank". Page 1. Amend part number 2K 6428, for Screws, unit to tank to read 53K 165. Delete part numbers 2K 5555 and 2K 8932. Add after item 17: Clips for pipe 6 - ALT 123
Page 7. Add after item 34 the following:Change speed cross shaft bracket, outer with ball socketsocket1Ball socket1Screws, bracket to body2Special washers2-LWN 205
rage o. Delete part number CFS 0410 for Split pin, spring to Add after item 22: Anchor plate (on gearbox), for spring Amend part number 5C 2546, for Rivets, to read RRS 0207.
, prir
AMENDMENTS TO LITERATURE—continued

SUSPENSION

Published ç, SCAF

	RECORDS		VOUR	HOR
*** 17-1 - 1 ** function 16 108-9	ALTERATIONS NOTED	DECODING PARTS ORDERED	STOCK CARDS	PARTS LISTS

R.H. Steering L.H. Steering 1 1 1113 DAVD 148987 148921

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CHASSIS
NUMBERS:

COMMENCING
CHASSIS
NUMBERS:

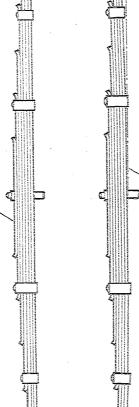
SUMMARY OF ALTERATION

STR 1280



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-			
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VEV PROPERTY			
-			
T AN PERFORMANY & PERFORMANY AND			

6068 BT



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INTERCHANGEABILITY

interchangeable. ones, but only in pairs. The new springs can be used to replace the old Main leaves are not



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AUSTIN SERVICE JOURNAL

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SPRINGS

positive camber A_s , whereas the old one had $\frac{1}{4}$ (6.35 mm.) negative camber B, normally loaded ensure that there is A new rear road spring has been introduced to The new rear spring has ¹/₂" car has finally settled adequate ground clearance down ' (12.7 mm.) on its

springs. when the

see illustrations for comparison.

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E.

09Z8

Issue VOLUME دە 24-CARS

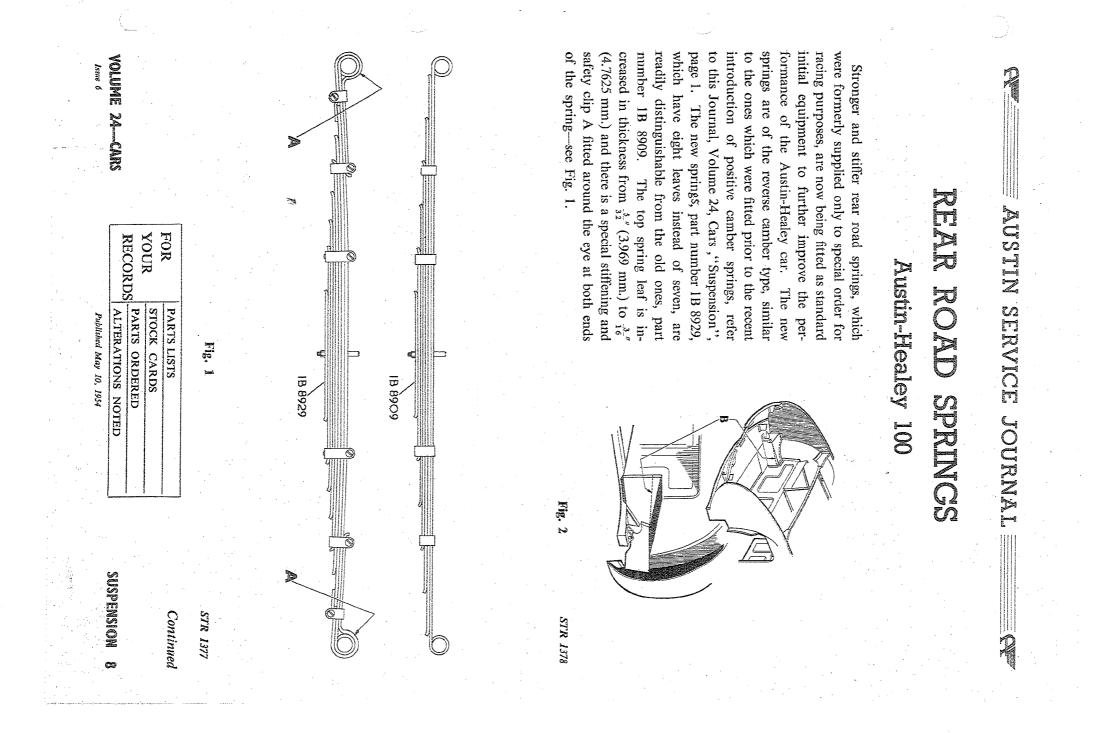
	4 SUSPENSION RECORDS	Commi	Brackets for rear axle bumpers	Description	The second se	Old Bumper Bracket		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COMMENCING CHASSIS R.H. Steering L.H. Steering	2	Number	SUMMARY OF	STR 1284	IN SERV Austin-Ho Austin-Ho have been re- to fit farther holes in the B have been B have been B have been B have been B have been	6. 20 Keel Reads Reads
	PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED	Nume	1B 7387	Old Part	ALTERATION		E BUNPER J Austin-Healey 100 Austin-Healey 100 Austin-Healey 100 In the tyre and trations for cer ilar to the old inthe holes in the been re- holes in the been for the lower filter of the low	kih Baadh Baadh Chaide dh un
	0	RS; 146479 146476	1B /391	New Part	NOI	New Bui	SERVICE JOURNAL BUMPER BRACK Stin-Healey 100 Intealey 100 Intealey 100 Intealey 100 Interchange farther farther farther in the been re- farther in the in the lower fixing bolts. A A A A A A A A A A A A A A A A A A A	
• ** • • • • • •	VOLUME 24-CARS		Austin-Healey 100	Туре	U development of the second	New Bunnper Bracket STR 1285	PER BRACKETS aley 100 repositioned to suit the new brackets (see illus- trations for comparison). INTERCHANGEABILITY The new brackets may be used in pairs for replacements of the old ones, provided that new <i>t</i> " (6.35 mm.) holes are drilled in the wheelarch for the lower fixing bolts. A	

/ MOISNIJACUS	A CONTRACTOR DATA AND A CONTRACT OF		and an and a set of the set of th	A MODULAN WITHOUGH IS HAN WATHONING DO DO THE PROVIDENCE OF THE PR	
		PARTS LISTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED	1 1 1 1 1	FOR YOUR RECORDS	VOI HMF 74
151690 151691	R.H. Steering L.H. Steering	Austin-Healey 100, R.H. Steering L.H. Steering	Austin-Hea		
152146 152274 152288 152263	ing	A 70 Saloon, R.H. Steering - L.H. Steering - Pick-Up, R.H. Steering L.H. Steering	4 /0 Saloor Pick-U		•
833965	ng	Coupe, R.H. Steering - L.H. Steering -	Coupe		
833992 - 835331	ring -	Pick-Up, R.H. Steering L.H. Steering	Pick-L		
833987	R.H. Steering - L.H. Steering -	Countryman, R.H. Steering L.H. Steering	Count		
833973		Van, R.H. Steering -	Van, I		
- 833956	s:	Commencing Chassis Numbers:	NCING CHA A 40 Salooi	Comme	
A 40 Pubs. 579A/1, p. 17 884, p. 34 A 70 Pubs. 780A, p. 38 853, p. 35 Austin-Healey 100	1G 4471	IG 4282	2	stscrews, swivel	Lockwashers for setscrews, swivel axles to backplates
Type and Parts List Publication Number	New Part	Old Part	Number Off	ption	Description
gan waar ee waa ah a	NON	ALTERATION	SUMMARY OF		n a fan fan fan fan fan fan fan fan fan
INTERCHANGEABILITY The new lockwashers should be used to replace c old ones in this application.	INTERCHANGEAB The new lockwashers should be the old ones in this application.	The nev the old or	d for the plates to er has a buckling	r has been introduced for the uring the brake backplates to The new lockwasher has a which prevents it buckling are being tightened.	A new lockwasher has been introduced for the upper setscrews securing the brake backplates to the swivel axles. The new lockwasher has a wider cross section which prevents it buckling when the setscrews are being tightened.

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BRAKE BACKPLATE LOCKWASHERS

AUSTIN SERVICE JOURNAL



VOLUME 24 -CARS

Continued

SUSPENSION

C.154649 on, and* Main leaves with bushes NN 1B 1B 8929 8930

SUMMARY OF AT TEP

	BN.1		Туре	and a second
R.H.S. C.154647 on, and*	C.148987-154646 L.H.S. C.148921-154648	RHC	Range	
Rear springs with bushes	Rear springs with bushes , Main leaves with bushes .	کان یک در سال میکند. کان یک در سال میکند میکند میکند میکند میکند میکند میکند میکند میکند میکند. میکند میکند میکند میکند میکند میکند م میکند میکند میکند میکند میکند میکند میکند.	Description	
~	NN	Vehicle	Number per	
10 0000	1B 8909 1B 8910	1	Austin	and an a second s
Pub. 1050, Rear Suspension, p. 1.		Number	Parts List	
	······································	<u> </u>		

Fig. 3 3 STR 1379

has been raised at C by $\frac{3}{4}$ " (19.05 mm.) immediately the front end of the rear spring the floor panel -see Fig. 2. At

INTERCHANGEABILITY

-see Fig. 3.

above the shackle-

body is modified to give sufficient clearance at The new springs cannot be fitted unless the

full bump.

the body will be published in due course,

Further details for modification to

REAR ROAD SPRINGS--continued

NILSDY

SERVICE

JOURNAL

spring clips from $2\frac{3}{4}$ " (69.849 mm.) to $2\frac{7}{8}$ " (73.024 spring, the toe bolt has been lengthened from $1_{16}^{*''}$ (39.687 mm.) to $1_{14}^{*''}$ (44.449 mm.) and the To accommodate the extra thickness of the

the position of the original topend, as shown by the dotted line B which marks has been raised by $1\frac{1}{4}$ " and the body when the spring is in the full bump position. sufficient clearance between the top of spring necessitated modifications to the body to give imm.). The extra height of the new spring has The top of the rear spring shackle box (31.749 mm.) at its front

AUSTIN SERVICE JOURNAL

REAR ROAD SPRINGS—continued

SUMMARY OF ALTERATION—continued

 BN.1	Туре
R.H.S. To C.154646 L.H.S. To C.154648 except* R.H.S. C.154647 on, and* L.H.S. C.154649 on, and*	Range
 Rear spring clips .	Description
40 40	Number per Vehicle
1G 5103 1B 8759 1G 5271 1B 8931	Austin Part Number
3 Pub. 1050, Rear Suspension, p. 1	Parts List Publication Number

*152233-152242, 152559, 152562–152578, 152935, 152937–152942, 152978–153320, 153799– 52477-152484 152244, 152578 152487 153898, 152944, 152246, 152580-152490-154100-154645 152945, 152736, 152505, 152248--152252, 152947-152949 152739-152507-152511, 152744, 152254, 152255, 152951,

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24-

CARS

ublished May

10,

SUSPENSION

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Issue 6

152746-152768 152514-152540, 152257-152422, 152542-152770-1527 152553, 152424 77, -152475, 152556-152779-152976,

152953--152973, 152975,

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	NILSANW
	Z
•	SERVICE
	JOURNAL

P

FRONT SHOCK ABSORBERS

Austin-Healey 100

shock absorbers are identical with the old ones except for the valves which have a modified torque leak setting. New front shock absorbers are being fitted to further improve the riding qualities of the car and to reduce shock absorber 'fade'. The new The new

INTERCHANGEABILITY

for replacements. in pairs, with the old ones and will be supplied The new shock absorbers are interchangeable,

SUMMARY OF ALTERATION

		BN.1	-	Туре
	R.H.S. C.153857 on L.H.S. C.153855 on	L.H.S. C.138031–153854	R.H.S. C.138975-153856	Range
	F.1	· ·	F.1	Plate
lan man ber metheres pole a trad an format fan mekonden as sowere na ar ger a personale an de newert ar bann onte a d	F.1 Front shock absorbers with arms	with arms (use 1B 8935 in pairs)	Front shock absorbers.	Description
a finite di majorgna mara salve canto è qui qu'angende social	2	2	antar tari min tari kan da	Number per Vehicle
ann an air Great Staint Staint Staint Sta	2 1B 8935	3H 3045	oraș entremanțan becha e estador eve	Number Austin per Part Vehicle Number
a) w tearra an anna anna chuirteanna a duannaiste anna a	Suspension, p. 1		* Long COALTANAMENT AND A SAMANANA AND A SAMANANANA	Parts List Publication Number

	RECORDS	YOUR	FOR
ALTERATIONS NOTED	RECORDS PARTS ORDERED	STOCK CARDS	PARTS LISTS

VOLUME 24

-CARS

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SUSPENSION

VOLUME their old counterparts. Austin-Healey 100 on the A 70 and Austin-Healey 100. "Suspension", page 3) are now also being used vehicles (see this Journal, recently introduced for use on the A 40 range of D FRONT A 70 Type The modified bearings are interchangeable with The flangeless type 24-CARS INTERCHANGEABILITY To C.157684 C.157685 on C.157685 on To C.157684 C.156136 on C,138031-C.156136 on C.138031-Range C.157684 156135 156135 NOISPENSION AUSTIN of bearings which were F 21 Plate ۲j Volume FOR YOUR RECORDS 7 VQ, SUMMARY Bearings Bearings Bearings Bearings Bearings Bearings for lower links Bearings for lower links Bearings 23, section links links links links SERVICE Austin-Healey Published September 20, 1954 PARTS STOCK CARDS PARTS ORDERED ALTERATIONS NOTED Description s for lower links s for lower links for for for for LISTS trunnion trunnion trunnion trunnion ALTERATION 1A 4781 1A 4761 JOURNAL TINX Vehicle Number per $\infty \infty$ A $\infty \infty$ ঌ 4 A 100 1A 4781 ALT-132 1A 4781 ALT-132 ALT-131 IA 4761 Number ALT-131 IA 4761 Austin Part BEARINO Pub. 780A, p. 36 SUSPENSION Pub. 853, p. 34 ALT-131 ALT-132 Suspension, Publication Pub. 1050, **Parts List** Pick-Up, Saloon, Number Front p. 1 STR 1455 R 62

Issue 8

SUSPENSION

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2013)71022476772547730777611127411127491127691		RECORDS	YOUR	FOR	
1907) 1952/1952/1952/1952/1952/1952/1952/1952/	ALTERATIONS NOTED	RECORDS PARTS ORDERED	STOCK CARDS	PARTS LISTS	

Healey Austin-Type <u>1</u>00 C.220088 on C.138031-C.219137 on C.153855-Range 220087 219136 Plate F. Rear shock absorber with Rear shock absorber with Rear shock absorber Rear shock absorber with Rear shock absorber with arm, left hand . . . Rear shock absorber with arm, right hand . . . Front shock absorbers with Front shock absorbers with arm, left hand arm and link, left hand . arm, right hand arm and link, right hand arms arms Description • . with Vehicle Number per \sim \sim 1B 7448 1B 7444 1B 8808 Number 1B 7447 1B 7445 1B 8807 1B 8935 1B 4403 Austin Part Suspension, Suspension, Publication Pub. 1050, Pub. 1050, **Parts List** Number Front Rear p. 2 , p

XIOOK XOOK **Austin-Healey** ABSORBERS 001

CW.

AUSTIN SERVICE JOURNAL

1011

The new co-axial type shock absorbers, referred to in this Journal, Volume 24, section "Suspen-sion", pages 14, 15 are now being fitted to the Austin-Healey 100.

INTERCHANGEABILITY

replacements and should be fitted in pairs. The new shock absorbers will be supplied for

SUMMARY OF ALTERATION

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AUSTIN SERVICE JOURNAL

FRONT SUSPENSION BEARINGS

A 70, Austin-Healey 100

Further to the article in this Journal, Volume 24, "Suspension", page 17, the flanged type bearings have been reintroduced on the A 70 and Austin-Healey 100.

INTERCHANGEABILITY

The flanged type of bearings are interchangeable with the flangeless type.

SUMMARY OF ALTERATION

		>			He	A		Ty	
		A 70	:		Healey 100	Anetin		Туре	
C.158337 on	C.157685- 158336	C.158337 on	C.157685– 158336	C.158337 on	C.156136 158336	C.158337 on	C.156136– 158336	Range	-
J 23		6 f		F 21	•	F 7		Plate	
Bearings for lower links .	Bearings for lower links .	Bearings for trunnion links	Bearings for trunnion links	Bearings for lower links .	Bearings for lower links .	Bearings for trunnion links	Bearings for trunnion links	Description	
8		4	4	8	8	Ą	4	per Vehicle	Number
1A 4781	ALT-132	1A 4761	AL.T-131	1A 4781	ALT-132	1A 4761	ALT-131	Part Number	Austin
p, 34	Pick-up, Pub. 853,	p. 36	Saloon,		Suspension, p. 1	Pub. 1050,	ng deta analized alive a revisi gen a deda deda deda deda deda deda deda	Publication Number	Parts List

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SUSPENSION

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	NECONDO	PECOPING	VOLUR	FOR
Published February 15, 1954	ALTERATIONS NOTED	DECODING PARTS ORDERED	STOCK CARDS	PARTS LISTS

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VOLUME 24-CARS

received for suitable torque wrenches and socket sets. 15 and 19, of various nuts, bolts and setscrews used in particular applications, requests have been Since the publication of torque figures in this Journal, Volume 23, section "Repairs Data", pages Q

AUSTIN SERVICE JOURNAL

ROUE WRENCHES AJ

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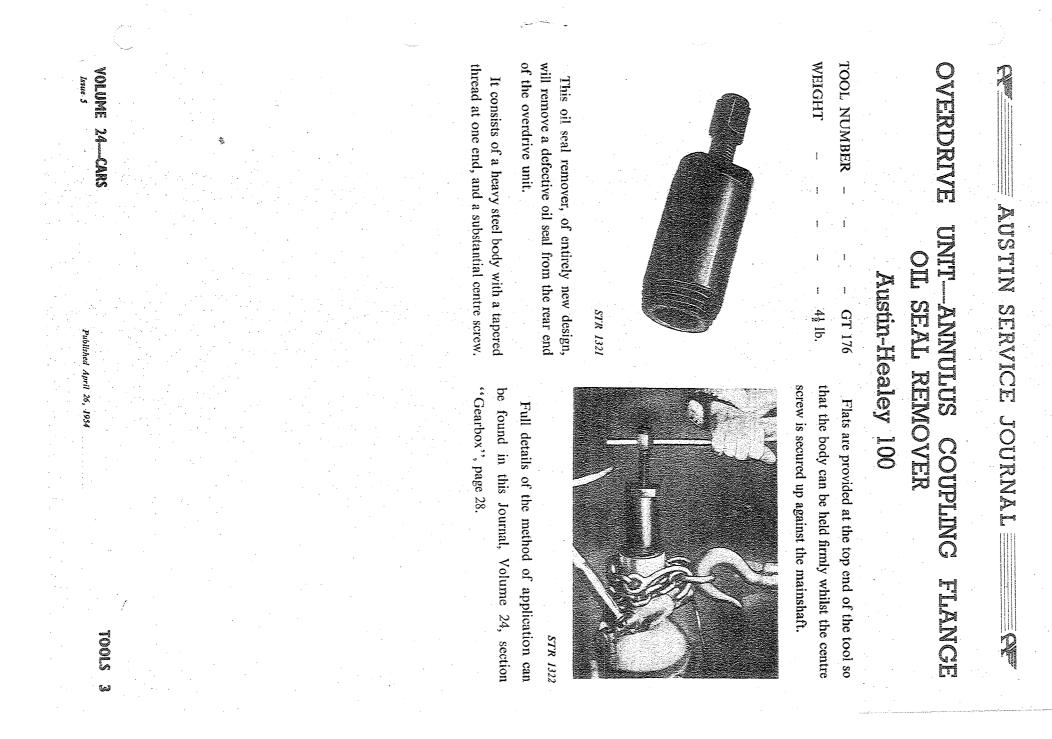
S T T S T S

of varying capacities as listed below. & Co. Ltd., Walnut Tree Walk, Lambeth North, London, S.E.H, who market several torque wrenches This equipment can be obtained from any good tool factor, or direct from Messrs. V. L. Churchill

CapacitySquare Drive8 to 20 lb. ft. $\frac{3}{8}$ " (9.525 mm.)16 to 100 lb. ft. $\frac{1}{8}$ " (12.700 mm.)25 to 150 lb. ft. $\frac{1}{8}$ " (12.700 mm.)	Number 4 125 to 300 lb. ft.
	Number 3
	Number 2
and a first second s	Number 1
	Size

American size hexagons for B.S.F. and U.N.F. threaded nuts, bolts and setscrews respectively. Socket wrench sets can also be obtained from Messrs. V. Numbers 2 and 3 sizes will accommodate the torque wrench loadings which have already been published. L. Churchill to suit both Whitworth and

148987 148935 <u>ED</u>	Description Number Off New Part Type Extractor for front hub dust cap 1 1B 4339 Austin-Hea COMMENCING CHASSIS Ninmeree	SUMMARY OF ALTERATION		A tool for extracting the press-in type dust cap from the front hub has been added to the tool kit supplied with the car. The tool comprises a pillar, threaded internally $\frac{s}{r\delta}^{"}$ U.N.F. at one end, and threaded externally $\frac{1}{r\delta}^{"}$ U.N.F. at the other end: there are also two washers and a nut. The extractor is used as illustrated by screwing the extractor is used as illustrated by screwing the	Austin-Healey 100	FRONT HUB DUST CAP EXTRACTOR	AUSTIN SERVICE JOURNAL
JME 24CARS	Type Austin-Healey 100	STR 1278	 1 <u>2</u> 1	ed to the dust cap C vashers D and nut E e nut E is tightened wn. It is important extractor pillar A t E is tightened, to ing and twisting the		ACTOR	



VOLUME 24-CARS

TOOLS

STR 1324

STR 1323

damaged.

and illustrated in this Journal, Volume 24, section The application of the tool is fully described

drive casing, which is made of aluminium, can be By this means, neither the oil seal nor the overcasing is correctly fitted.

to ensure that the oil seal in the overdrive unit

Tool GT 177 has been designed and introduced

WEIGHT

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2 lb. GT 177

TOOL NUMBER

DVERDRIVE

UNIL -

S.D.T.D.N.W.Y

COUPLING

FLANCE

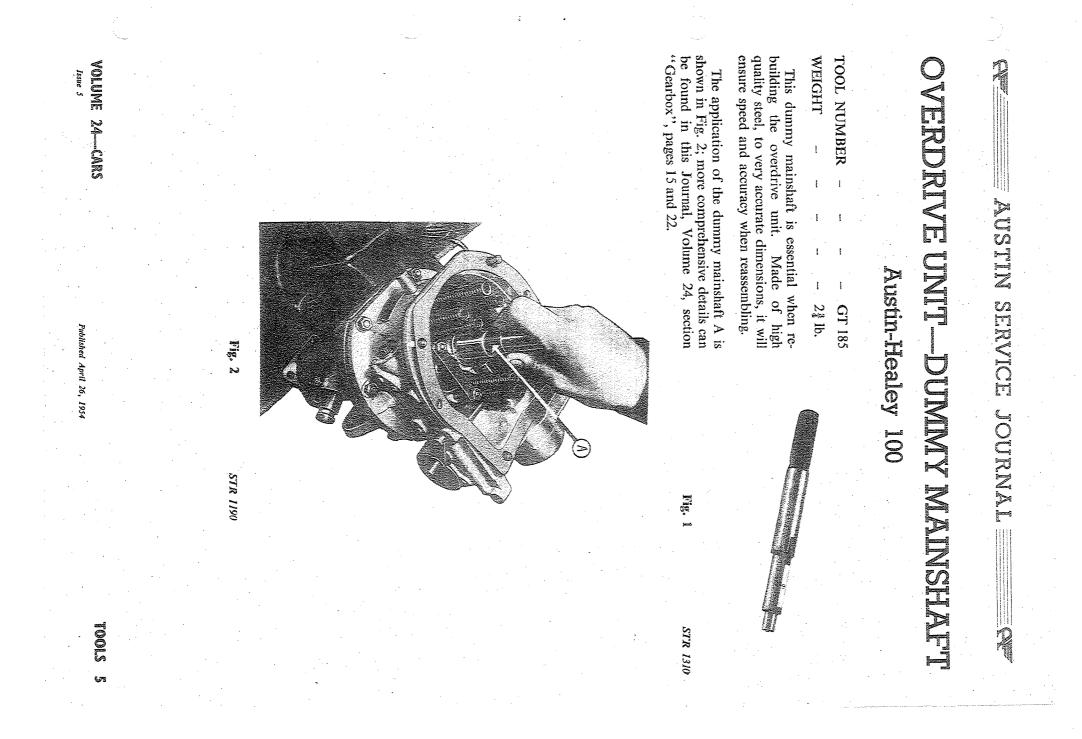
SEAL REPLACER

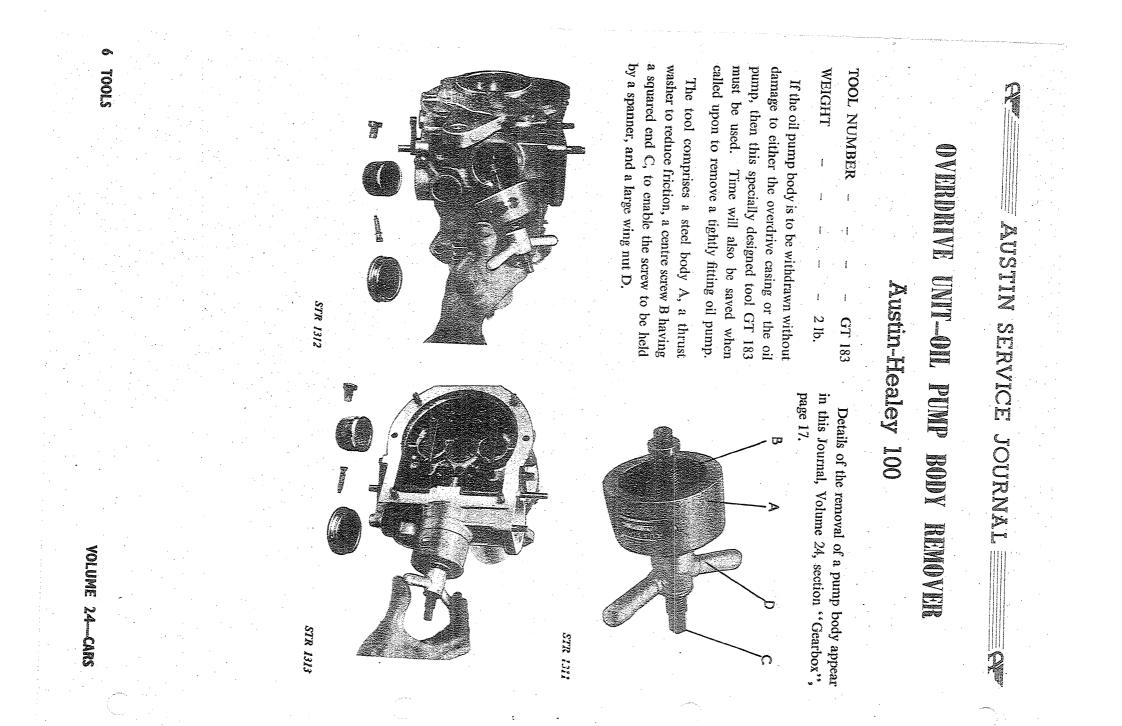
Austin-Healey 100

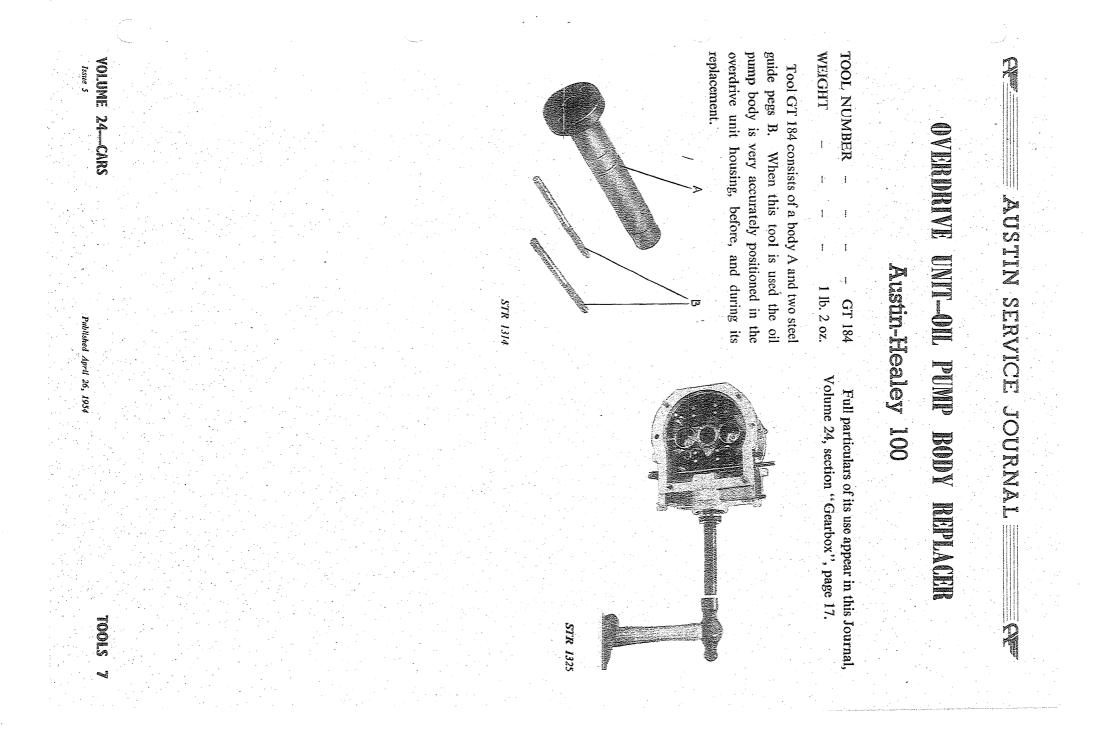
AUSTIN SERVICE JOURNAL

P

"Gearbox", page 28.







large wing nut D and a rubber ring E. the centre screw B, terminating in a flange C, the use of this tool. housing from its bore is completely overcome by TOOL NUMBER WEIGHT It consists of a body A, through which is fitted The difficulty OVERDRIVE of removing the accumulator AUSTIN SERVICE JOURNAL JINITI ACCUMUTATION HOUSING Austin-Healey 100 STR 1315 GT 182 1% lb. "Gearbox", page 18. found in this Journal, Full details of the operation of this tool can be Volume 24, section REMOVER STR 1197 P

TOOLS

VOLUME 24

-CARS



P

P

OVERDRIVE UNIT-ACCUMULATOR HOUSING MINC GUIDE

Austin-Healey 100

 TOOL NUMBER

 WEIGHT

GT 181 ³ lb.

This ring guide is designed to prevent permanent distortion of the lower rubber ring when it is being fitted to the accumulator housing.



STR 1316

place if it is forced over the full diameter of the housing, but if it be rolled gently up the tapered

Stretching of the lower rubber ring will take

face of the ring guide, and into position in the lower groove of the housing, no distortion will occur.

The upper ring should be rolled on from the tapered end of the housing to locate it in its groove. The accompanying illustration shows the correct sequence of assembly for the lower ring.



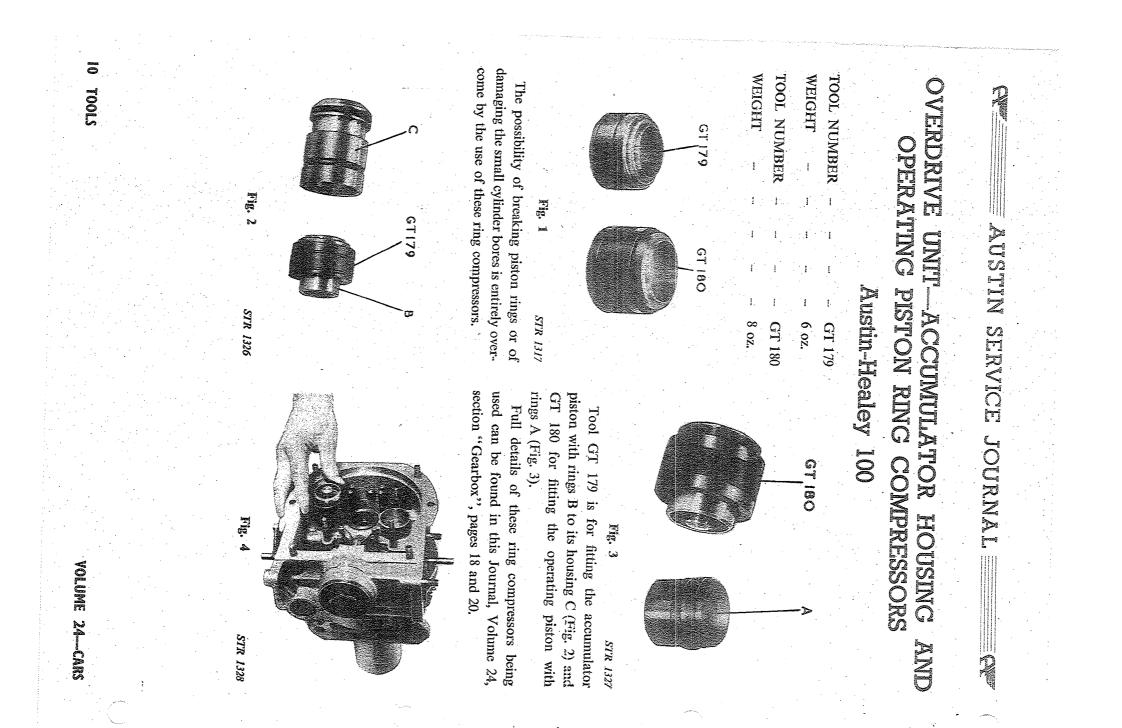
STR 1329

VOLUME 24-CARS

Published April 26, 1954

STOOL

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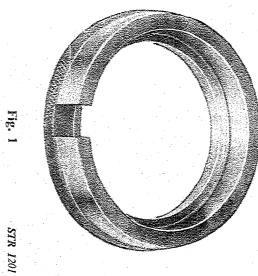
OVERDRIVE UNT-UNIDIRECTIONAL CLUTCH ASSEMBLY AUSTIN SERVICE JOURNAL 111

R

Austin-Healey 100

WEIGHT TOOL NUMBER 1 GT 178 į 16.

clutch. essential tool for reassembling the unidirectional This precision made assembly ring is an

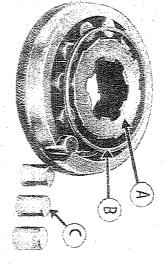


VOLUME 24-

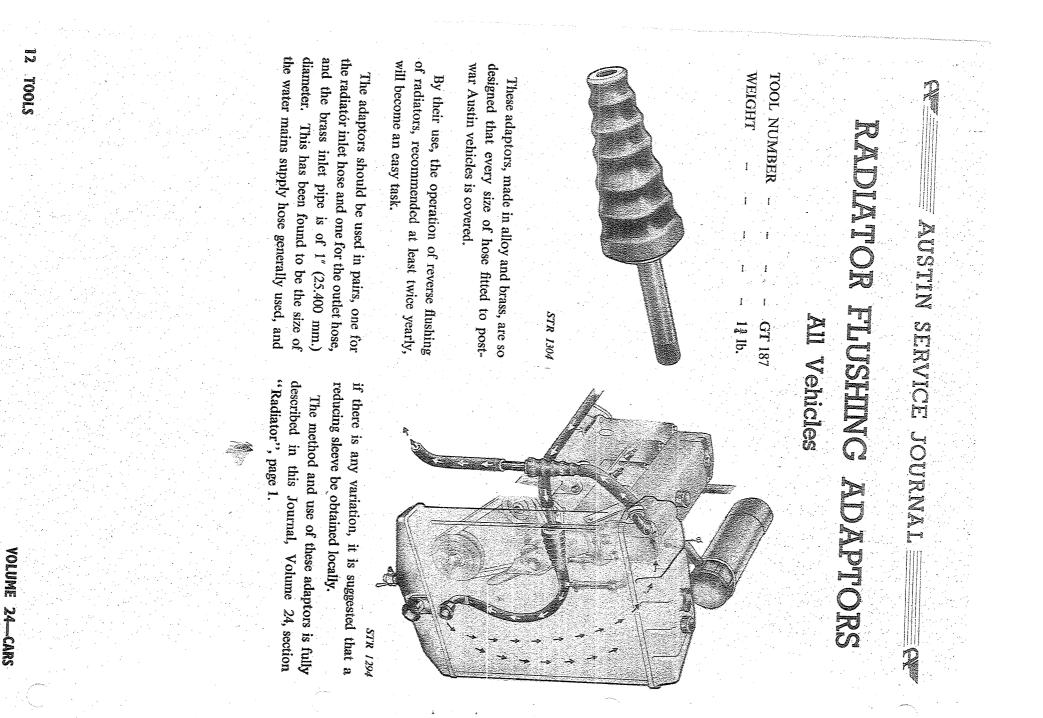
-CARS

TOOLS

Issue 5



ring. spring B of the clutch being put together; it is right way in order to cause the cage to urge the important to make sure that the spring is in the transferred from the tool to the annulus. are pushed in through the slot in the rim of the placed into the assembly ring and the rollers C rollers up the inclined faces of the inner member. The inner member with cage and spring is then Fig. The unidirectional clutch can then be 2 shows the inner member A, cage and Fig. 2 STR 1202



TOOLS 4

blished September 20, 1954

Issue 8 VOLUME

24....

-CARS

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a ya c da bi da manana na n	NECONDO		ALIUA	FOR
varana menengkana mukana katakan da karang dari periperangkan inter tertak tertak tanggan secara petuteran da b	ALTERATIONS NOTED	PARTS ORDERED	STOCK CARDS	PARTS LISTS

C.64	194001110314001277777777787932934	A 30	<u>.</u>			. •
C.64650 on {			C 101-64640	<u>\</u>	Kange	
			•		riate	2
Spanner, box, for spark- ing plug	Grease onn	ing plug and gearbox filler and drain plugs .	Grease gun with adaptor Spanner, box, for spark-	n an Annaise an	Description	100 of the Original States and Annual States and States and States and States and States and States and States
ــر ــــر	10770000000000000000000000000000000000	· · · · · · · · · · · · · · · · · · ·		A DESCRIPTION OF A	per Vehicle	Number
2A 5379		3H 2419	3H 2278	janosantantanan sebaan kapade (nan-kapada) 1995 - Alis II. Alis II. Alis	Part Number	Austin
-	p. 28	Pub. 883B/2.	-	ACCURATE A CONTRACT OF A CONTR	Publication Number	Parts List

SUMMARY OF ALTERATION

INTERCHANGEABILITY: The new parts will be supplied when stocks of the old ones are exhausted.

above car.

M 30

A modified grease gun and a modified box spanner are now being supplied with the tool kit of the

KIT

STOOL S

AUSTIN SERVICE JOURNAL

2

Mustin-Healey 100

the Austin-Healey 100. A lead hammer is now being supplied in place of the hide hammer for removing the hub caps from

SUMMARY OF

Plate Description Number

Hammer, hide per Vehicle , . . . 3H 3128 Austin Part Number Parts List Publication Number Pub. 1050, Tools, p. 1

Austin-Healey

C.138031-159256

100

C.159257 on

Hammer, lead

1B

9668

Type

Range

ALTERATION

VOLUME 24-CARS

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STR 1490

STR 1309

ALC: NO

TOOL NUMBER

1.1

1 1

1 1

GT 186 4 lb. AUSTIN SERVICE JOURNAL

C.

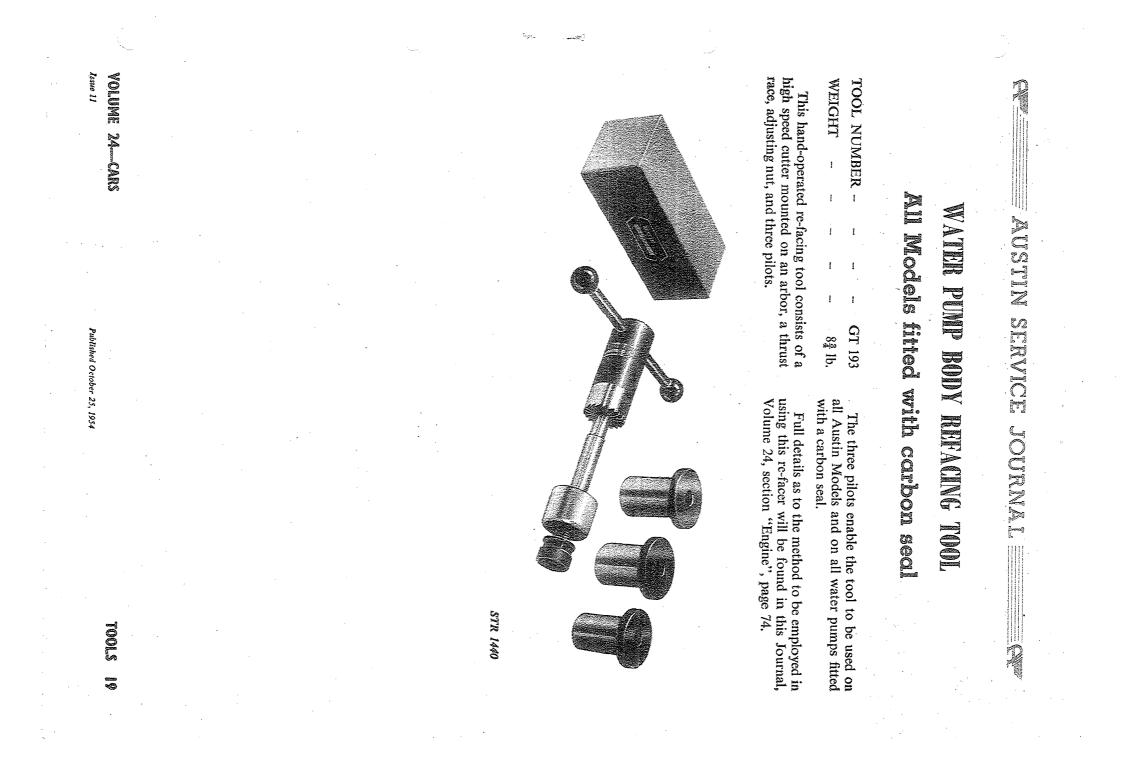
MAINSHAFT BEABING REPLACER FOR OVERDRIVE UNIT

Austin-Healey 100

Improvised tools can do much damage, especially when used to fit ball and roller bearings, and GT 186 has been designed to ensure that the ball bearing fitted to the adaptor plate at the rear end of the gearbox, is fitted speedily and without damage to either adaptor plate, shaft or ball bearing. The use of this tool is more fully described in this Journal, Volume 24, section "Gearbox", page 14.

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STOOL 8



AUSTIN SERVICE JOURNAL

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TATW, SFAT All Models GLAZE BREAKERS

TOOL NUMBERS

1

1. 8 GT 190 18G 195 18G 196 GT 188 GT 189

WEIGHT ŧ 6 oz. (each)

scoring the valve seats during the operation. The cutters of the tools are staggered to prevent must not be used: the inserts should be renewed. inserts have been fitted, then these glaze breakers tageous in preparing the valve seats ready for recutting and finishing. If hardened unturn Worn valve seats usually have If hardened valve seats





8-H.P., 10-H.P., 12-H.P., 16-H.P., 16-H.P., Taxi and Hire-Car, A 70, A 125, A 135 (inlet and exhaust), Austin-Healey 100, A 90, A 135 (3 Austin-Healey 100, A 90, carburetters) inlet A 40 inlet (series 4 and 5), A 50 inlet -A 30 _____A 40 inlet (series 2, 3), Application:-carburetters) exhaust A 50 exhaust ł A 135 ł ł GT 189 18G 196 STR 1441 GT 188 18G 195

Operational details can be found in this Journal, Volume 24, section "Engine", page 75. GT 190

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20

TOOLS

VOLUME 24-CARS

AUSTIN SERVICE JOURNAL

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VE SHA M NARROWING CUTTERS

All Models

WEIGHT	18G	18G	18G	18G	18G	18G	18G	18G	18G	TOOL NUMBERS - 18G
-4 oz. (each)	18G 206 (bottom)	18G 205 (top)	18G 204 (bottom)	18G 203 (top)	18G 202 (bottom)	18G 201 (top)	18G 200 (bottom)	18G 199 (top)	18G 198 (bottom)	18G 197 (top)

These special narrowing cutters have been designed to enable the width of valve seats to be maintained at their original dimension. Two types are available, one having a 15° angle for the top of the seating and the other having a 75° angle for the bottom or inside edge.

The cutters are intended to be used with the standard range of pilots and handle which are available for finishing valve seats.

If hardened valve seat inserts have been fitted, then these narrowing cutters must not be used: the inserts should be renewed.

Operati Volume 2	Austin-H (3 carb	8-H.P., 10 16-H.P. A 70, A exhaust A 90, A exhaust	A 40 (Se haust. exhaus A 40 (Ser	Application:	
ional details c 4, section "Er	Austin-Healey 100, A 90, A 135 (3 carburetters) inlet – –	8-H.P., 10-H.P., 12-H.P., 16-H.P., 16-H.P. Taxi and Hire-Car, A 70, A 125, A 135 (inlet and exhaust), Austin-Healey 100, A 90, A 135 (3 carburetters) exhaust – – – –	A 40 (Series 2, 3) inlet and ex- haust. A 40 (Series 4, 5) exhaust. A 50 exhaust – A 40 (Series 4, 5) inlet, A 50 inlet		
Operational details can be found in t Volume 24, section "Engine", page 76.	90, A 135	, 16-H.P., Hire-Car, (inlet and aley 100, buretters)	t and ex- ries 4, 5) ust A 50 inlet	i i .	Ê
Operational details can be found in this Journal, olume 24, section "Engine", page 76.	18G 205/206	* · · 18G 203/204	18G 201/202 18G 199/200	STR 1442 18G 197/198	

Published October 25, 1954

TOOLS

21

VOLUME

24-CARS

VOLUME 24-CARS

22 TOOLS

TOOL NUMBERS:--GT 8G (right hand thread) GT 8H (left hand thread) ٦ 11 1 [] 1 Њ. 2 lb.

GT 8J

LNOXL

FUB

EXTRACTOR

NDAPTORS

P

Austin-Healey

100

Weight

2 ІЬ.

AUSTIN SERVICE JOURNAL

These adaptors, to be used in conjunction with hub extractor GT 8 are threaded internally to suit both the right and left hand threads of Austin-Healey 100 front hubs.

remove the left hand hub, and GT 8H has a left hand internal thread to remove the right hand hub. GT 8G has a right hand internal thread to

> The centre screw extension GT 8J is centralised and held in position by locating its large diameter STYR 1443

in the adaptor. This ensures a direct and central pull against

the swivel axle.

"Axle-Front", page 4. The application of these adaptors is described and illustrated in this Journal, Volume 24, section

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D

STEERING ARM EXTRACTOR THRUST PADS

All Models, except A 30

TOOL NUMBER

GT 75B

1 lb.

WEIGHT (set of 3)

Since the steering rocker and idler shaft now have U.N.F. threads (see this Journal, Volume 23, section "Steering", page 19) a new set of thrust pads have been introduced to be used with GT 75A Steering Arm Remover.

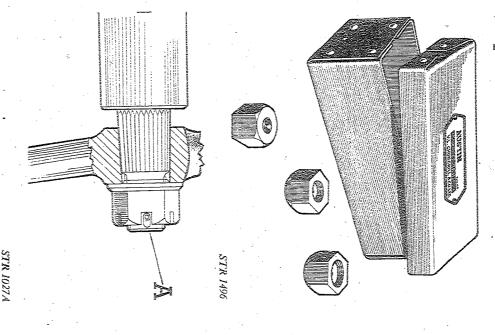
being withdrawn. These thrust pads screw on to the rocker or idler shaft, after removal of the nut and washer, thus protecting the threads whilst the arm is

They are supplied in sets of 3, in a strong fibre box, and should be ordered under part number GT 75B.

Steering rocker and idler shaft threads can be identified as follows—B.S.F. threads—No mark-ing, U.N.F. threads—a letter 'U' is stamped on the end of the shaft as shown at "A" in the illustrations.

page 1. in this Journal, Full details of their applications can be found this Journal, Volume 22, section "Tools",

1



Issue 13 VOLUME 2A-CARS

> TOOLS 23

Published November 29, 1954

VOLUME 24-CARS

24

TOOLS

Certain Service Tool part numbers have been altered, and it is essential that the new part numbers given below be quoted in all future These alterations should also be made to the Service Tool List, Publication 941B.

Part Number Alterations

SERVICE

STOOL.

orders.

AUSTIN SERVICE JOURNAL

P

SUMMARY OF ALTERATION

	neres on a finite de la ciula a Aluma a su a radiona de la ciula de la ciula de la ciula de la ciula de la ciu	
Description	ld Part Number	Old Part Number New Part Number
Anna and a series of the set of the series and the series of th	no - Mala Reference de la compositiva d	
valve scat cutter	GT 25	18G 25
Valve scat cutter pilot	GT 31	18G 31
Front hub extractor adaptor	GT 8G	GT 8K

VOLUME: 2ACARS	 A 30 TOOL NUMBER 18G172 WEIGHT 34 lb. These adaptors are designed to be used with CT.47A for the removal of the differential case bearings fitted to the A 30 rear axle. The set comprises four segments and one thrust pad complete in a box. Full details of the use and operation of these adaptors will be found in this Journal, Volume 24, section "Axle-Rear", page 16. BEVEL PINION BEARING PRE-IOAD A 30, A 40, A 50, A 70, A 90, Acustum-Healey 100, at a steel rod A, calibrated in pounds from 3 to 20, at a weight B held in any position equited by a knurled headed set serve C. A small genres winging arms E which can be moved to suit any circle from 2% to 4* diameter (60.3 mm. to 101.6 mm.) These arms are held in position on the bevel page 16. 	DIFFERENTIAL CASE BEARING
10012	O STR 1153 STR 1153 STR 1153 STR 1153 STR 1153 STR 153 STR 153 STR 153 STR 153 STR 15184 STR 15184 Details of the full use of this tool can be found in this Journal, Volume 24, section "AxleRear", page 16.	G REMOVER ADAPTORS

AUSTIN SERVICE JOURNAL

P

VERDRIVE COUPLING T) ANGE

Austin-Healey 100

Coupling flange bolts with "D" shaped heads (which are already in use on the rear coupling flange) have now been introduced for the front of the propeller shaft. The overdrive coupling flange has been modified to provide a register to locate the head of the new bolts. The lockwashers which were formerly used on the rear flange only

are now used to secure the bolts of the front coupling flange.

INTERCHANGEABILITY

The new coupling flange together with the new bolts and lockwashers can be used together to replace the old flange.

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ALTERATION	
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-	Туре			
C. 155284 on	C. 138031- 155283	C. 155284 on	C. 138031- 155283	Range
		CA 15	CA 15	Plate
Bolts for flange to overdrive flange Nuts for bolts Lockwashers	Bolts for flange to overdrive flange *Nuts for bolts Lockwashers for bolts	CA 15 Coupling flange	CA 15 Coupling flange	Description
440	444]	Number per Vehicle
2K 7491 2K 3977 2K 5914	2K 8688 2K 3977 1B 7386	17H 5807	7H 5887	Austin Part Number
p. 1	Pub. 1050, Propeller	Overdrive, p. 7	Pub. 1050, Gearbox and	Parts List Publication Number
· · ·			·	\$ \$

*Not previously listed.

4 TRANSMISSION

YOUR RECORDS

STOCK

CARDS

PARTS LISTS

ALTERATIONS NOTED

PARTS ORDERED

FOR

VOLUME 24-CARS

WHEELS

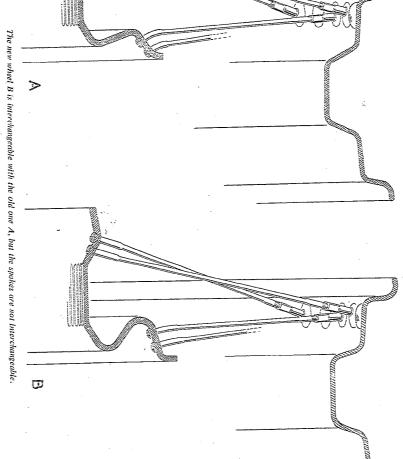
U73

24-CARS FOR RECORDS YOUR ^oublished November 15, 1954 ALTERATIONS NOTED PARTS ORDERED STOCK CARDS PARTS LISTS

Type BN.1 C.159802 on C.138031-159801 Range Plate Road wheels, centre lock Road wheels, centre lock Spokes, long Spokes, short Spokes, long Spokes, short Rims Rims Description per Vehicle Number 160 5 5 160 5 7H 1H 1B Number Austin 8048 1804 1806 1805 8033 1710 1707 1708 Pub. 1050, Road Wheels, Parts List Publication Number ġ

SUMMARY OF ALTERATION

STR 1501



11 S.W.G. (.116 in.-2.946 mm.) material in place of 13 S.W.G. (.092 in.-2.337 mm.).

cannot be used for replacements on the old type will be supplied for replacements. interchangeable with their old counterparts, and wheel. Hub centres cannot be supplied separately The new spokes

modified to permit the use of spokes which have

ones but the shape of the centre lock hub has been

a less acute bend at the butt end--see illustration.

speeds.

of spoke breakages when travelling at very high

The new wheels are similar to the old

crease the safety margin and reduce the possibility

The road wheels have been re-designed to in-

NILSAR

SERVICE

JOURNAL

PR

ROND

STITIZ

The new road wheels and the rims are separately

Austin-Healey 100

INTERCHANGEABILITY

In addition the wheel rim is now made from

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