SPARE PARTS FOR ALBION GEARS

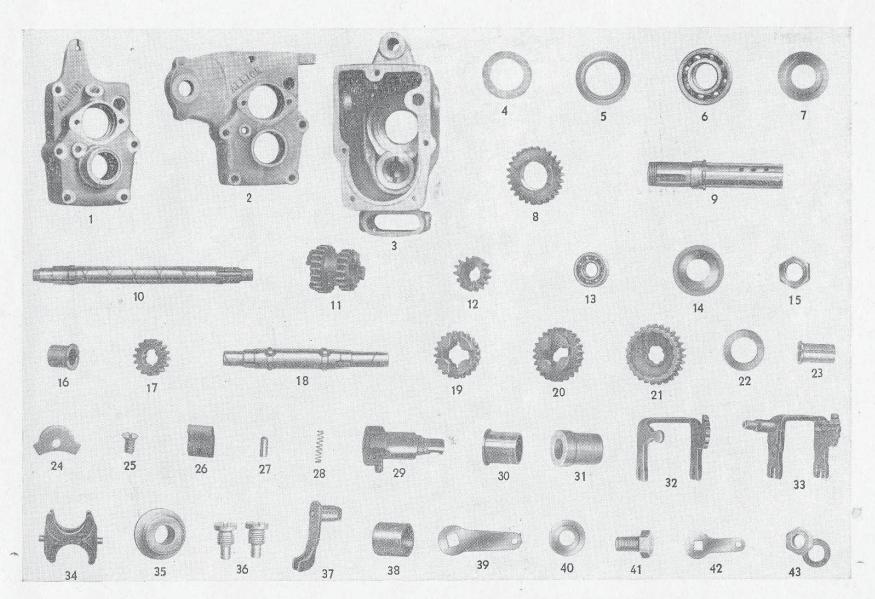
H.J., H.J.S, H.J.R and H.J.R.5 Models

The Albion Engineering Co. Ltd.

TOWER WORKS
SAMPSON ROAD NORTH
BIRMINGHAM, 11
ENGLAND

Telephone : VICtoria 4064-5-6

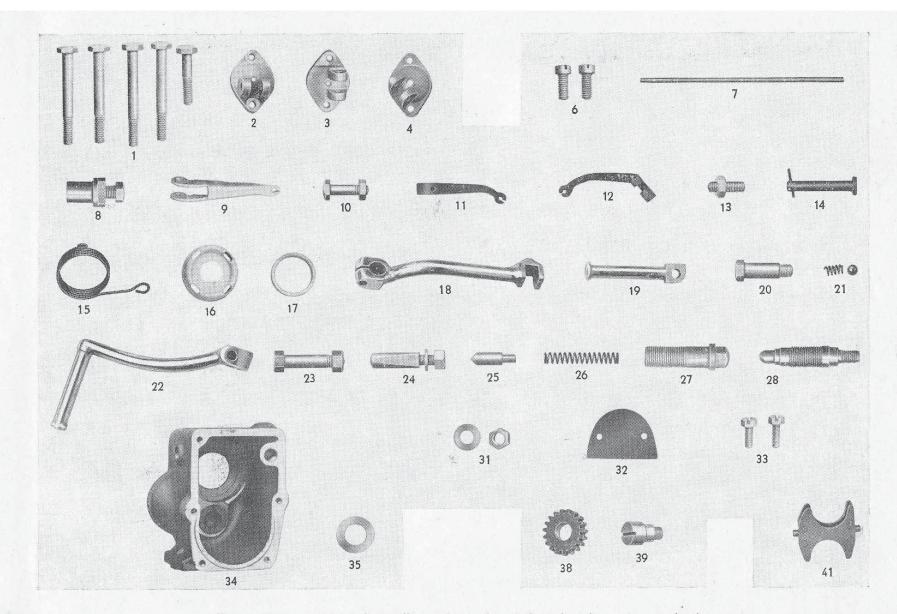
Telegrams : Eastart," Birmingham



Illustrations are not to scale, small parts having been enlarged to show up more clearly

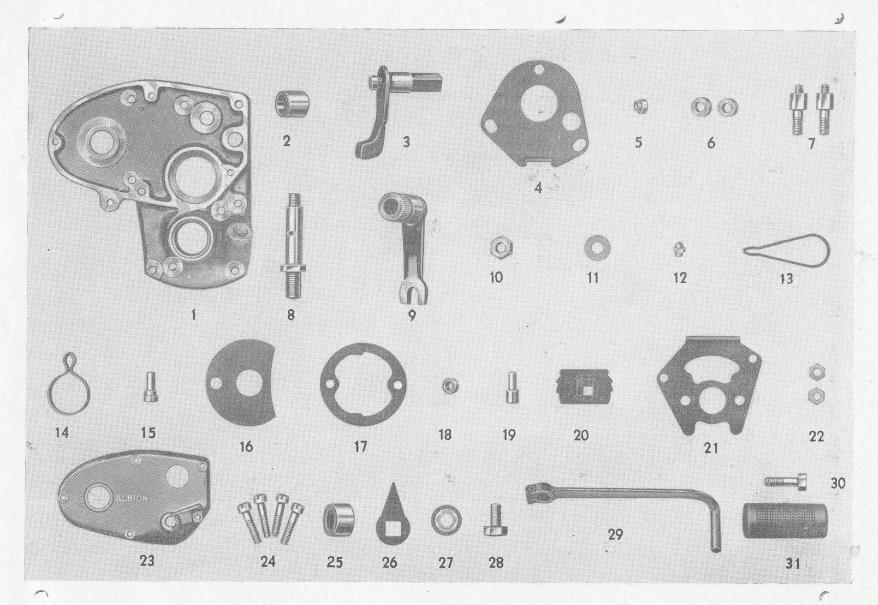
llustration	D														
	Part	0											Pr	ice	
No.	No.	2												ch	
1	HJ 1	Gear Box Cover		***		***	***			12121			28	10	
2	HJ 1A	Gear Box Cover				***	***						28	10	
3	HJ2	Gear Box Case (stat	e wheth	er top.	bottor	n, pivo	t or be	olt-on t			***	•••	39	7	
4	HJ 3	Rubber Oil Seal	(2.212	***		W Fire				•••		***		- 1	
5	H14	Rubber Oil Seal Ret	ainer	- 6006			• • •	•••		.588	(* * * *	***:	2	0	
6	F1 5	Ball Race (Large)			***	***	• • •	•••	•••	• • •	•••	***	100	0	
7	F1 4A	Tin Washer		V SSSS	***		***	* * *	***	• • •	•••	• • •	17	9	
8	H 12	Mainshaft low gear	 Sinion	***	•••	1,739,7	***	• • •	***	• • •	***		122	5	
9	HÍ8	Mainshaft Sleeve	JIIIOII		•••	• • •	• • •	652	***	***	***	***	17	4	
10	H17	Mainshaft		***	***		• • •	•••	•••	•••		***	28	10	
11	HJ 11			·	***	***							36	3	
	H 9	Mainshaft Sliding Ge	ar 211 8	k 181	***	***	***	***	***	***			32	6	
(1) (E)		Mainshaft High Gear	Pinion	151	•••		65.65				111		11	6	
(a) (b) (f)	F1 6	Ball Race (Small)						***	7.000	***	***		12	9	20
12/12/5	HJ 71	Oil Thrower	***		***		1014			• • •			1	8	
100000	HJ 56	Mainshaft Nut, Left	Hand Th	read		***			NAMES NO.	***	•••		S76.)	6	
(3/122)	HJ 14	Layshaft Bush (Box)				***		12.2.2		202	1444		3	3	
	HJ 17	Layshaft Low Gear F	inion 16	T				***				•••	11	6	
	HJ 13	Layshaft	***	NA Name and	2.0		5505X 	34.5.5 1460	***	***	34349	***		4	
	HJ 18	Layshaft 2nd Gear Pi	inion 21	Т			• • •	•••	55.55	***	***	***	24	900	
20	H] 19	Layshaft 3rd Gear Pi	nion 24	r	***	•••	***	•••	***		135		24	4	
21	H j 20	Layshaft High Gear a	and K S	Pinion	27T	***	•••			•••	•••		26	5	
22	HÍ 15A	Layshaft Bush, Penn	Stool M	achor		***	***	***	***	• • •	***		24	4	
23	H 15	Layshaft Bush (K.S. I	End)		• • •	***	3.00	*(***)	***	***	***		120	5	
	H 25	K.S. Stop Plate	65	• • •	• • •	*16	•••		25.5.5	1000			3	3	
0.0	HJ 26	V C Stop Plate	***			***		222		•••			1	8	
	HI 22	K.S. Stop Plate Pin	***	***		***	***							3	
		K.S. Pawl	***		***	2.5.5	***		***	***			3	3	
(120 20 a)	HJ 22A	K.S. Pawl Plunger	***				2.57		***	***				6	
	HJ 23	K.S. Pawl Plunger Sp	oring	***						•••	***			5	
13 <u>4</u> 555430	HJ 21	K.S. Shaft (State whe	ether se	rrated o	or cott	er type	2)						23	11	
	HJ 27	K.S. Shaft Bush			***	***			***		414		5	9	
2012	HJ 10	Gear Box Cover Col	llar (No	Kick St	tart)							•••	12	4	
	HJ 33A	Inside Operator				•••				* * *	***	•••	7	10	
	HJ 33	Inside Operator and	Shaft	***				*** 1	••••	***	***		11	6	
	HJ 34	Operator Fork		***			•••	•••		***	555	****		1.1.2.0	
	EJ 14	Inside Operator Bus	h			EXX	200		***	• •	•••	•••	6	3	
36	HÍ 36	Inside Operator And	hor Pine	(2 041)		***			***		***		3	3	
	H 37	Operating Lever		(2 011)		222	•••	***	•••	(*)**			325	7	
	H 38	Operating Lever Bus	٠		***	•••	•••	• • •	•••	((*)*)		***	6	7	
	G 94	Control Lavar (State	C	···	***	•••	• • • •	111	•••	•••	***	***	2	11	
	FC 7	Control Lever (State	centre	5)	***		***		***				1	8	
136000	FC 24	Dished Washer			***	•••		***	(*C)(*C)				10	10	
12722	EJ 47	Operating Lever Sec	uring Pi	n				***	•••		***			10	
		Outside Operator Le	ever	•••	•••						***		1	8	
נד	EJ 47A	Outside Operator Le	ever Nu	t and W	Vasher						•••	***		10	
									(4817/9)	-145 -154 -154 -154 -154 -154 -154 -154	NEGERO	1800.76		15.00	

J.



Illustrations are not to scale, small parts having been enlarged to show up more clearly

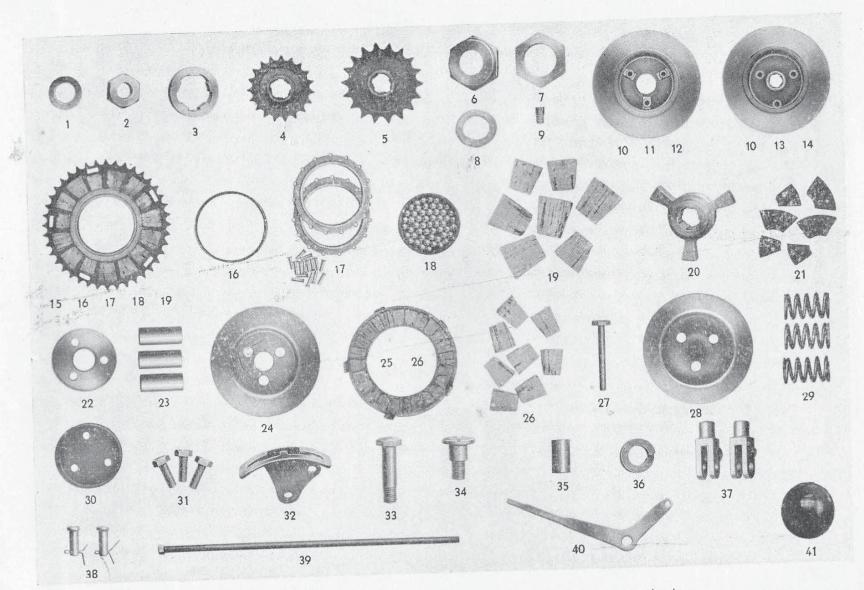
Illustration	Part	22											Ο.,	
No.	No.	3											Pri	
1	HI 54	Cover Pins (6 off-s	tate len	ath)									1;0	ich
2	HJ 40	Bearing Cap (Top o				25.55	(A.5.5)	***	***	*1*1*1	***	***	-	5
3	HJ 40P	Bearing Cap (Pivot				***	•••	• • •	•••	1.5.5	•••	7,000	5	9
4	HJ 40A	Bearing Cap (Specia		596969	*:*:*/		***	***				•••	5	9
6	HI 41				* *(*)	***	***	***	***		• • •	7040	5	9
7	H] 66	Bearing Cap Pins (2		35.5404	***	***	7.5.5.5	* * *		***	***		- 2	5
8	1 37	Push Rod (State Ler	igtn)					***	***		***	***	2	0
9	40 m / 200 m / 200 m	Clutch Lever Adjust	ting Pin,	Sieeve	e and B	ali	•••		• • •				4	2
10	H 30	Clutch Lever		***	***	***						•••	4	
	H 32	Clutch Lever Pin an	d Nut	***		***	***							6
11	BJ 21C	Clutch Lever	•••			•••	***		***			3001	4	2
12	E1 41	Clutch Lever		1779	- •••					1577	***	***	4	2
13	E1 42	Clutch Lever Adjust	ing Scre	w and	Nut	544		***						10
14	E1 43	Clutch Lever Cotter	• • • •	***	***							222		6
15	E1 37	Kick Start Return S	pring	***			***						1	8
16	E1 38	Kick Start Return S	pring Co	over				5 * * * * * * * * * * * * * * * * * * *			***	***	3	3
17	HJ 21A	Kick Start Distance	Tube		12447								(4540)	6
18	HJ 42	Kick Start Crank (S	errated	or Cot	ter)	***			17 17 17 17 17 17 17 17 17 17 17 17 17 1	1200	F 0.54	***	15	3
19	HJ 42A	Kick Start Crank Pe	dal		3.44	•••	200	•••	•••	•••	10.7	***	5	9
. 20	H J 42B	Kick Start Crank Pe		10000									~	10
21	H 42C & D	Kick Start Crank Pe						***	•••	***	****	***		5
22	G 42	Kick Start Crank (Se	errated	or Cot	ter)		10 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35.5.58	***	18.838	*:8***	***	16	0
23	G 43S	Kick Start Crank Pir	och Pin	Nuta	nd Was		• • •	***	•••	***	****	***	10	
24	G 43	Kick Start Crank Co						***	• • •	•••	• • •	•••	8	3
25	H 62	Selector Plunger					***		• • •	***	***	• • •		10
26	H 63			•••	****	57.952	***		***	***		***		10
27	H 61	Selector Plunger Spr	ing	***	•••	***	•••	• • • •	***:	***	7. 5.7 75	***	1120	5
28	H 67	Selector Plunger Box	×		Seve Francisco		•••	***	• • •	•••			1	8
31		Selector Plunger c/w	Spring	and Pi	lunger	***	***						3	9
32	H 67B & C	Selector Plunger Box	x VVashe	er and	Nut	•••		***	***	***	34.454			5
	HJ 59	Cover Plate	•••	•••	• • •	***	####	•••	***	***		exec		10
33	H 60	Cover Plate Pin (2 o	ff)	• • •	•••			•••		***				2
24	LIUD O		Addition		rts for	HJR	Box						90	
34	HJR 2	Gear Box Case c/w	Oil Seal		***	***		***	***		***	272500	42	0
35	HJR 82	Steel Washer		****	*** %			*** 2		***	***			3
38	HJR 83	Idler Pinion		•••		***	6.6.60	***	***		***	******	9	1
39	HJR 80	Idler Pinion Shaft	1414		G-56		(****)			•••			7	5
41	HJR 34	Operator Fork	***	***	***	***	1.4.4.6		***	****	:		10	6
	A 9	Holding-on Studs ½"		.l. (2 c	off) state	e lengt	h				()#/ (2)49/21		1	6
	A 9/A	Holding-on Studs No	ıt ±"×20	D.T.P.I	(2 off)			***		***	•••	•••		6
	A 9/B	Holding-on Studs Nu	it Wash	er 1" (2 off)	17 MARTS 520075	1911 100 100 100	***	999	***		***		2
	A9/1	Holding-on Stud 골">	26 T P	1 (4 0	f) state	length		***	***	***		***	1	4
	A 9/1A	Holding-on Stud 3"×	26 T P I	I Nut	(4 off)	Cingui		•••	•••	•••		•••	1000	4
	A 9/1B	Holding-on Stud 8"×	26 T P I	l Was	her (4	off)	***	***	***		***			
	G 42/R	K.S. Crank Rough					***		***	***	*(*(*)	***	7	2
	- 12/11	rank Rough	***	•••	5.5.5°	•••	•••	***	***	***	***	***	7	6



Illustrations are not to scale, small parts having been enlarged to show up more clearly

FOOT CHANGE MECHANISM. H MODEL

Illustration	Part			- <u>1</u> 2				31		¥			Pr	ice
No.	No.	A STATE OF THE STA					W	0:					ea	ich
1	HJ FC/1-35	Gear Box Cover	•••		•••	•••				• • •			41	3
2	HJ FC 6	NGC 11.0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				***	***					***	3	3
3	HJ FC 47	Operator Shaft (compl	ete wit	h leve	r)	(***)	***	***	***	***	***		9	0
4	FC 41				***		***	* * *					3	3
5	FC 45	Spring Stop for Adjust								A Section				3
6	FC 58	Bush for Adjuster Plat	e Pin (2	off)		1.00		***	2.4					2
7	FC 43	Adjuster Plate Pin (2 c	off) .							•••	7. · · ·			10
8	FC 49	Fulcrum Pin for Foot C	Change	Lever		***		***	***	***		***	1	8
9	FC 48	Chant Cantual Lauran					11.11	***				***	5	9
10	FC 49A	Fulcrum Pin Nut			•••							***		5
11	FC 49B	Fulcrum Pin Washer			7		050500 12120128	16.66		***	(1000) (1000)			2
12	FC 49C	Grease Nipple						1511	10.0	100	12.1	177		10
13	FC 52												4	8
14	FC 51	5 ' 5' 6 '				L S			***			****		10
15	FC 46	Spring Stop for Contro					***	***	0000	### 21053		• • •		4
16	FC 53	Control Plate				•••		•••	***	•••	PERSONAL PROPERTY AND ADDRESS OF THE PERSONAL PR	***	2	ž
17	FC 1-35	Control Ratchet Male				•••		•••	•••	•••	•••	•••	2	7
18	H] FC 54	Bush for Control Plate			•••	***	• • •	***		***		• • •	0	2
19	FC 44	Operating Pin for Paw	I Diato	OII)	•••	***	***			***	***	****		3
20	HJ FC4-35	Control Ratchet Femal	i riate i		* * *	***	***	27.7	***	B(#)(#)	***	****		0
21	FC 42				•••	• • •	***	***	•••		***		5	0
22	H 113	Stop Plate and Spring	Netaine	· (C)	•••	***	* * *	***	•••	•••	•••		3	3
23		Nut for Adjuster Plate	Pin (2	on)	***	***	***	***		***	***	2 4 4 W		2
	HJ FC1A-35	Foot Change Cap	•••		***	(909)	****	***	•••	***	• • •	***	16	6
24	HJ FC57	Cover Pins (5 off—stat	e lengt	h)		• • •	•••	***	10.00	*.**	***		220	5
25	FC 50	Outer Bush for Opera	tor .	• •	•••		• • •				•••		3	3
. 26	FC 56	Gear Indicator				***		•••			•••			10
27	FC 7				•••	***	***	***	***	***				10
28	FC 24	Operator Shaft Securin	ng Pin .	***		•••	7 m m m				•••			10
29	FC 30				•••		•••	• • •		•••	• • •		17	6
30	FC 30A			••		!!			•••		•••		88.10	6
31	G 47 FC	Foot Change Rubber		***	*** A	***	•••	•••	•••				1	8



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Illustration	Part	- N										. P.	rice	
No.	No.												ich	
1	H 57	Mainshaft Spring Washer		2000				***	49.65/01				3	
2	HĴ 55	Mainshaft Nut, Right Hand							•••	•••	•••		4	
3	H j 53	Sprocket Distance Collar				***					***	1	g.	
4	E1 33	Sprocket $\frac{1}{2}$ " \times .305 19T						***		K • 5	***	12	4	
5	E1 45	Sprocket $\frac{5}{8}'' \times \frac{3}{8}''$ 15T	***	***				•••		***	***	14	ō	
6	H J 120	Sprocket Gland Nut	101	•••			200			•••		174	11	
7	F1 46	Sprocket Locking Nut	***		300					•••	• • •	1	11	
8	H 121	Sprocket Gland Nut Felt W		• • •				***				5	5	
9	H 51	Sprocket Locking Screw	***	•••	501045 (14045						• • •		2	
10	F1 68	Clutch Back Plate		T	0.54045	0.500	1017400	56. T.	***	3.00	•••		-	
11	F1 50	Clutch Centre Drum (Shoc	k Absor		Assem	bled w	ith bac	c nlate				26	5	
12	F1 68 BD	Clutch Back Plate Studs		/			Tell but.	Piace		•••	•••	20		
13	E1 50	Clutch Centre Drum (Solid		17										
14	F168CD	Clutch Back Plate Studs			embled	with	back pl	ate				26	5	
15	E1 53	Clutch Sprocket Assembly							•••	(*) * (*)	***	23	1	
17	E1 54	Ball Cage and Rivets	20/04/57			••••	•••	•••	***	75.5		3	3	
18	E1 58	Balls (set of 58)		***	***		***	•••	•••	•••	•••	4	8	
19	E1 80	Corks (set—5 medium 10 la	arge)	•••		•••	***	***		•••	•••	2	0	
20	F1 69	Clutch Centre (Shock Abso	rher Or	(v)		 	•••	***	1.55	***	***	16	4	
21	F1 70	Rubber Segments (Shock A	hsorber	Only	***	•••	***	***	***	•••		3	3	
22	G 71	Rubber Retaining Washer (Shock A	hearh	or Only		•••	•••		• • •	***	3	2	
23	E1 56	Distance Tubes (Shock Abso	orber O	nlv)		943		•••	•••	• • •	•••	7	2	
24	F1 75	Intermediate Plate		0.00			***	***				- 1	7	
25	E1 59	Cork Insert Plate	***	****	3.55 50000	30.00		•••	***	****	***	7	5	
26	Ex-E1 59	Cork Inserts (Set—24)			•••	•••	***	***	***	****	***	2	0	
27	HJ 66B	Push Rod End Piece		•••	***	•••	•••	•••	***	***	•••		10	
28	F1 77	Enant Dista	***		***	***	•••	• • •	•••	•••	•••		3	
29	F1 78	Clutch Springs (3 off)		***	***			•••	•••	***	***	8	ž	
	G 79	Clutch Cap (now replaced l		ing re		washa	44		70\ 4	***	***	779	0	
	F1 80	Clutch Cap (now replaced I Screws for Clutch Springs (oy a spi					each G	A(FI		• • •	S	ŭ	
	1100	Clutch Complete Two Plat	2 011)	111	•••	•••	•••	•••	•••	***	•••	02	3	
32	G 87	Quadrant		•••		***		•••	•••	•••	•••	82	9	
	G 88A	Quadrant Bolt, Long	***	***	6600				•••	***		9	7	
	G 88B	Quadrant Bolt, Short		***	***	***		***	***	***		1	3	
	G 89	Quadrant Distance Piece		•••	•••	***	***	******	***		• • •	1	3	
	G 90	Quadrant Spring Washer		•••	•••	•••	•••	•••	•••	***	***		2	
	G 93	Yoke Ends for Control Rod	(2 -#)	• • •	• • •	***	•••	•••	•••	•••	•••	100	5	
	G 96	Cotter and Split Pin (2 off)		***			***		•••	•••	•••	1	3	
	G 92	Control Rod and Nuts	***	***	5 4.5. 40	***	***	***	***	***	***	_	5	
	G 91	Change Speed Lever c/w Kn	ohe	•••	•••	•••		***	•••	***	***	2	6	
	G 91A				•••	•••	•••	***	•••			- 4	6	
	E153/DP/80	Change Speed Lever Knob		DI	***	• • •	• • •	•••	•••	•••	•••	1.	8	
	E153/DP/B	Clutch Sprocket 80T 3"x 7/		riate		C. V.	• • •	****		***		34	8	
	E153/SP/B	Clutch Sprocket Blank, Two	o riate		•••	•••	***	•••	•••		6.4.4.4	19	9	
	E153/SP/80	Clutch Sprocket Blank, Sing	gie riate	Dless	7.85E	MARC	155	3515	***	****	****	19	9	
	E153/51/60	Clutch Sprocket 80T. $\frac{3}{8}'' \times \frac{7}{33}$ Clutch Sprocket 54T. $\frac{3}{8}'' \times \frac{7}{32}$	" Duals	riate	•••	•••	•••	•••		•••	•••	34	8	
	-100/0	Ciaccii sprocket 341. 8 × 33	Duple	^	***	***	***	•••		•••	•••	34	8	

Additional parts for model HJR 5 gearbox — 3 speed and reverse As used on light cars

	As i	useu o	ii iigi	it car.	500 100						þri	CP
part		Di	escripti	on				96			ea	
No.	Gearbox case			•••	***						57	9
HJR 5A/2	Gearbox Cover c/w bush		***				1000000		***	***	28	10
HJR 5A/1	Bearing Cap (Alloy)			•••	***	10000				***	10	9
HJR 5A/4	Bearing Cap (Alloy) Clutch Lever	ECTS	55/565	•••				***			3	3
EJM 21	Bearing Cap (Alloy) Clutch Lever Pir	and N	Jut	***	***							6
EJM 22	Bearing Cap (Alloy) Clutch Lever Ad	liuster				***		***	25000		3	3
EJM 42/43	Bearing Cap (Alloy) Ciden Level Ad	juscoi		•••							16	6
HJR 5A/5	Bearing Cap (Gun Metal) Bearing Cap (Gun Metal) Clutch Lev	er.		7.00 C	***			• • •	***		4	2
H 30	Bearing Cap (Gun Metal) Clutch Lev	er Pin	and Ni			•••						6
H 32	Bearing Cap (Gun Metal) Clutch Lev	or Adii	ister						1224		4	2
J 37	Bearing Cap (Gun Metal) Clutch Lev	ci Auj	43661					•••	***		11	6
HJR 9/15	Mainshaft High Gear Pinion 15T.	- 2AT \	19T	***				***	/***		32	6
HJR 11	Mainshaft Sliding Gear 23T. × 18T. of	241.7	101.			89		***	***	•••	17	4
HJR 12	Mainshaft Reverse Pinion 23T	***		***	***		***		***		11	6
HJR 17	Layshaft Reverse Pinion 15T	***		***	***		•••			•••	24	4
HJR 18	Layshaft 1st Gear Pinion 17T. or 18T	1.444	***	***	15.5		• • • • • • • • • • • • • • • • • • • •				26	
HJ 19	Layshaft 2nd Gear Pinion 24T		***	•••	• • •	***					24	5 4
HJR 20/32	Layshaft High Gear Pinion		***	• • •	• • •	*:•:• Y	***	***		***	24	4
HJ 13/1	Layshaft		•••	***	***	*0.60*D	***	•••	• • •		2	6
HJ 74	Oil Filler Plug and Dip Stick	***		***	***	***	•••	• • •	•••		2.0	10
BJ 23	Drain Plug	***	***	1000	***		•••					2
BJ 23a	Drain Plug Fibre Washer		***	•••		• • •	• • •	7. * * *	***	***	4	2
HJ 67	Plunger Box c/w Nut and Washer	•••				***	***	***	*:*:*0	555	*	5
HJ 67B & C	Plunger Box Nut and Washer	•••				***				•••		
HJ 54/100	Cover Pin Hex. Head $1'' \times \frac{1}{4}'' \times 20$ T.F	P.I. (5 o	off)	*	V		•••	• • •	• • •	***		2
FC.57/014	Cover Pin C/Head $\frac{7}{8}'' \times \frac{1}{4}'' \times 20$ 1.P.I.	(2 off)		***		•••	•••	***		***		5 5 5 2
HJ 54/100	Bearing Cap Pin $1'' \times \frac{1}{4}'' \times 20$ T.P.I. (2)	off)	• • •				***		* * 50	***	•	2
HJR 90	Idler Pinion Shaft Cover Plate		•••				•••	***		***		3
HJR 91	Mainshaft L.H.T. Nut Locking Washe	er	***	***	***				***			3

Additional parts for model HJ 5 gearbox - 4 speed footchange

HJ 5/2	Gearbox Case										65	0
HJ 5/1	Gearbox Cover					C 15000					41	3
HJ 5/1A	Gearbox Cover Cap	1000	-								16	6
HJ 21/5	K.S. Shaft	200		***		***		***	***		23	11
HJ 5/4	Bearing Cap				***		•••	4		***	5	9
EJM 42/43	Clutch Lever Adjuster Complete								C 5		3	3
EJF 21	Clutch Lever		7,555		10.00		2.555		Walker Color	2.55	7	5
HJ 73		;					• • •					5
H 60	Insurantes Cause Dia	***	3,8,8,1	•••	***		***	***	•••	***		2
		***		***	10.00	(****/	***	• • •	(* · *) * · ·	***	4	0
E 137/5	K.S. Return Spring	19.55	•••	***	***	88.836	***	200	2000	***	1	0
FC 6D	Operator Bush			• • •	•••		•••	•••		•••	3	3
FC 47D	Inside Operator Shaft and Lever				***						9	0
FC 41A	Adjuster Plate	14.44			***	***	***				3	3
FC 48E	Short Control Lever	***			***		***	***		***	12	0
FC 52/5	Short Control Lever Return Sprin		*			•••				• • •	1	8
FC 42/5	F.C. Stop Plate and Spring Retained	er			1222	022240		***	100	444	3	3
FC 50/D	Outer Bush for Operator Shaft		244							***	3	3
FC 13	Gear Indicator		6000	•••	***					***		10
FC 30/E	Footchange Lever	***								2.2	14	0
Accessed to the Control of the Contr		10.00	1955/455	F1507.1	277.00	WEFEF	C174676	10.600				

Modifications - Model HJR and HJR 5

1. Gearbox RBZ 1 and onwards fitted with 18T. idler pinion and idler pinion bush (P.B.), this pinion and bush is interchangeable with the HJ 83 19T. idler pinion.

Modifications all Models

2. Gearbox RCB 283 and onwards fitted with externally fitted rubber oil seal, this type of seal dispenses with the use of oil seal retainer HJ 4. In future gearbox case will be supplied complete with oil seal and in this state is interchangeable with old type therefore the existing part numbers will be retained. As the new seal on its own is not interchangeable with the old type, the latter will still be available as a spare part.

New Part Numbers

HJR 83/1	Idler Pinio	n 19T					101 175						9	- 1
				55.52		10.00	2.5	***			* * *	•••	 10	
HJR 84	Idler Pinio	n Bus	h		 								 2	0
HJ 3/1	Oil Seal				 	.,,		,	* * *	***	.,,		 2	6

SPARE PARTS LIST FOR 3 PLATE CLUTCH

	,					1	ചി
HJ 83/B	Clutch Blank and Drum Assembly					r r	s. a. 9 6
HJ 83/D	Clutch Sprocket and Drum Assembly Duplex 54T. or 56T	3" ~ 7 "	* * *	***	**	2 4	선 시중…
HJ 83/42	Clutch Sprocket and Drum Assembly 42T. ½"×.305"		***	***	OK 3000		7 9 5 0
HJ 83/80	Clutch Sprocket and Drum Assembly 90T 3" × 7"	•••	•••				
G 74	Clutch Sprocket and Drum Assembly 80T. $\frac{3}{8}'' \times \frac{7}{32}''$	•••	• • •	•••		3	9 3
G 76	Clutch Sprocket Ball Retainers (2 off) pair	***	•••	*** *			4 2
G 66	Clutch Sprocket Balls 3/16 (54 off) Set	***	***	***	**		2 0
HJ 85	Clutch Sprocket Retainer Rivets (15 off) Set	***	•••	***	**	2	3
G 74a	Clutch Sprocket Drum	•••	•••	•••	•••	1	1 6
H 82/K	Clutch Sprocket Drum Rivets (15 off) Set	***		•••	••		, 5
	Clutch Sprocket Klinger Rings (2 off) each	***	***		** ***		6 3
C 10 H 72	Clutch Sprocket Klinger Rings Rivets (7 off) Set	***		***	• • • • •		. 5
	Clutch Sprocket Circlip	***	***	••••	••	1947 19	1 8
HJ 80	Clutch Back Plate Assembly	•••	• • •		••	1 1	
G 75a	Clutch Intermediate Plate (Dished)	***				32	6 7
H 89/K	Clutch Insert Plate Klingerite (2 off) each	***	***	***		100	2 4
H 89/C	Clutch Insert Plate Cork (2 off) each	***	***	***	***		7 5
G 75	Clutch Intermediate Plate (Flat)	•••					6 7
G 71	Clutch Back Plate Distance Piece	,,,					42
HJ 86	Clutch Stud Distance Piece (3 off) each	***	***				6
G 67/K	Clutch Inserts Klingerite (48 off) set of 24	***	***	***			67
G 67/C	Clutch Inserts Cork (48 off) set of 24		***				2 0
FI 77	Clutch Front Plate						8 3
FI 78	Clutch Springs 13 gauge (3 off) each or	***					6
G 78/12½	Clutch Springs 12½ gauge (3 off) each or	***	***	300			6
G 78/14	Clutch Springs 14 gauge (6 off) each		***	***			6
FI 80	Clutch Springs Pin—3 spring clutch (3 off) each						5
FI 79a	Clutch Springs Pressure Washer 3 spring clutch (3 off) ea	ch			. 34		2
HJ 88	Clutch Cap c/w thimbles 6 spring clutch	144 144 144 1	•••				5 9
HJ 89	Clutch Cap ins 6 spring clutch (3 off) each	***					5
HJ 79/B	Clutch Complete no teeth	***	***			6	0 0
HJ 79/D	Clutch Complete Duplex Chain 54T. or 56T. $\frac{3}{8}'' \times \frac{7}{32}''$					6 1	2000 107 A WES
HJ 79/42	Clutch Complete 42T. $\frac{1}{2}$ " × .305"						6 0
HJ 79/80	Clutch Complete 80T 3" V I"					200	0 0
Control Section (Control	Clutch Complete 601. § × 32	***	***	***		#:	

Hints to Users of Albion Gear Boxes.

should the clutch be regarded as an infinitely variable gear. case there should be 1/32'' to 1/16'' play between the push pin in the clutch lever and the end of the push rod. In no circumstances This may be of cork inserts or of fabric. In either

DO NOT SLIP YOUR CLUTCH TO GET UP THAT HILL IN TOP. CHANGE DOWN. THAT IS WHY THE GEAR BOX IS THERE.

short time the corks will be burnt out or the fabric glazed. clutch partially out of engagement, this is progressive, and in a very If the ends are allowed to come into contact they will At all times maintain the clearance between push pin and push rod. therefore watch the clutch adjustment especially during this period The clutch will settle down a bit when new or after recorking hold

to the works, as the faces have to be ground flat and true. When new inserts are required, the plates should be returned

should be turned and the movement tried in several places. Always check for tightness after locking down all bolts and nuts. and down play in the middle of the run at the tightest spot. Wheels ADJUSTMENTS. Do not run the chains too tight, chains mean heavily stressed bearings. There should be abo There should be about 3" up

exactly with the hole in the lever when in one of the middle gears. gear rod up or down, as is necessary, by disconnecting the yoke end and screwing or unscrewing until the hole in the yoke end lines up of the gear lever in the quadrant for the various gears. models when the gear box has been moved) check over the After adjusting the chains (this only applies to side tank control Adjust the positions

spring pressure. of "sticky" gear changing. is freeing and that there is no drag. If difficulty is found-in-changing gear, make sure that the clutch eing and that there is no drag. Clutch drag is the chief cause ticky" gear changing. Clutch drag is usually due to unequal

inequalities are With the three spring type no adjustment is balanced by changing over the springs for others provided, and

replaced. worn drum or worn tongues on the friction plates, these should be After considerable wear clutch drag may be caused through a

forwards until the gear moves in easily. sure to result. when the machine is stationery, as damage in some form is No attempt should be made to force a gear into engagement The machine should be moved backwards and

Overseas	Home	ħ
Castrol XXL	Castrol XXL	WAKE- FIELD
Mobiloil "BB"	Mobiloil "BB"	VACUUM
X-100-40	X100-40-	SHELL
Energol SAE 40	Energol SAE 40	B.P.
Essolube 50	Essolube 50	ESSO
		1.3

pin for regular greasing. Tecalemit nipple is fitted in the end of the foot change lever fulcrum monthly, and a dab of grease should be put on the end of the push where the push pin in the clutch lever makes contact. All outside connections, yoke ends, etc., should be oiled at least

mixture of 50% light grease and 50% oil is recommended and gears, and therefore oil is recommended for topping up. If, howworks. Too much grease tends to block the oil ways cut in the shafts The gearbox is charged with oil and light grease on leaving the box has been completely dismantled and washed out, a

The foot change mechanism is packed with grease before leaving works, and need not be touched for at least 12 months.

pins and lift off the cover. (2) disconnect clutch cable, (3) remove gear indicator by unscrewing the bolt holding it, (4) unscrew round-headed screwdriver slotted Remove lever by unscrewing pinch pin and drawing off the splines, pack more grease in proceed in the following order: (1) Put on the grease and re-assemble.

oil should be run in occasionally. The clutch sprocket runs on ball bearings when free, and a little

cable, these should be smoothed out, and also a little oil injected into the cable. Hard clutch operation is usually due to sharp bends in the

(E1 53) can now be removed in turn. The mainshaft holding-on nut (HJ 55) is now exposed, and this should be unscrewed a few turns (RH thread) and the end tapped with a mallet; this loosens the clutch centre (F1 69) on the splines, and allows the clutch back clear; springs (F1 78), distance tubes (E1 56), clutch plates (F1 75, plate assembly (F1 68) to be drawn off after the removal of the nuts three bolts (F1 80) are removed, and the clutch cap (F1 79) lifted 59) DISMANTLING. rubber retaining washer (E1 55), and sprocket assembly can now be removed in turn. The mainshaft holding-on The clutch must first be taken off.

in position, and remove complete with clutch lever (E1 41). box) take out the two bolts (HJ 41) holding the bearing cap (HJ 40) Turning to the cover end of the gear box (for the hand change

layshaft gears (HJ 17-20) mainshaft sliding gears (HJ 11) and fork leaks. A gentle tap on the clutch end of the mainshaft will free it. shaft (HJ 7) can now be withdrawn, followed by the layshaft (HJ 13) The kick starter mechanism comes away with the cover. drawn, together with the selector plunger box (H 61) and the cover oil thrower, (HJ 71). The cover bolts (HJ 54) should now be with-34) in one block. The mainshaft nut (HJ 56) is LEFT HAND, and must fore be unscrewed in a clockwise direction, followed by the) lifted off. Do not prize the cover off by means of a screw-or similar tool, as this will destroy the joint and cause oil

sleeve (HJ 8) by splines, and locked down with a nut (HJ 120) with The final drive sprocket (E1 33) is fixed on the mainshaft screw (H 51) preventing the latter from unscrewing

sleeve can be taken out, and with it the mainshaft low gear pinion 12) and the tin washer (FI 4a). With the removal of the final drive sprocket, the mainshaft

To remove the reverse pinion (HJR 83) in the model HJR box, unscrew the reverse pinion shaft (HJR 80)—left hand thread. _left hand thread.

selecting the gears. Dismantle the remainder of the box as above. the fulcrum pin, (FC 49) and take off the short control lever (FC48) the plate clear. The centre ratchet (HJFC 4-35) can now be drawn off the squared operator shaft (HJFC 47). The male control ratchet (FC 1-35) control plate (FC 53) and pawl plate spring with the lever return spring (FC52). Under the lever will be leaving the works, and any alteration here a hexagon headed screw; this is one of the cover bolts, and must be the stop plate and spring retainer (FC 42). (FC41) should not be touched, as this is set in position before (FC 51) are now taken out. 1a-35) as for greasing. This discloses two nuts (H 113) holding down ENCLOSED TYPE FOOT CHANGE. before the cover can be taken off. The adjuster Remove the nut (FC49a) on the end of will cause difficulty in Remove these and lift Remove plate the cap (H)

the mainshaft sleeve pinion (HJ 12) and the tin washer (F14a) the sleeve (HJ8) with the dish of the tin washer towards the lace. Put the screwed end of the slave. gearbox. place the final drive sprocket on the splines from the outside of the **RE.ASSEMBLING.** Place the felt washer (F1 3) and dished washer (F1 4) in the main bearing housing with the dish away from the ball race, then press the large ball race Secure with the locknut and the locking screw. the screwed end of the sleeve through the ball race and (F1 5) into position. Place on

anchor pin (HJ 36) and an inside operator bush (EJ 14) or, in the Fit the inside operator (HJ 33) into the case with either an

sure that the operator is quite free and the vee-slots move central to case of the foot change and front control, two anchor pins. Make the plunger box hole.

sliding gear and the layshaft sliding gears (HJ 18 and 19). Locate with the operator fork (HJ 34) in position between the mainshaft (HJ 11) is free to slide on the sleeve, then fit the assembled layshaft the pegs of the selector fork in the slots of the inside operator and sleeve, giving a liberal coating of oil, then fit the end cover carrying gear pinion (HJ9) on the mainshaft and insert in the mainshaft are operating easily with no undue friction. Fit the mainshaft high ease the assembly into the box. Now make sure that all these parts the small ball race (F1 6), the kick starter shaft assembly and left hand nut (HJ 56). Lightly tighten down the plunger box (H 61) first, with the plunger (H 62) and spring (H 63) in position; the away from ball race) on the end of the mainshaft and screw on the operator shaft. Place the recessed oil return washer (HJ 71) (recess that the plunger engages in the vee-slots on the inside operator and plain portion above the thread serves as a locating dowel. Make sure arm should be located in the spoon attached to the operating lever. doesn't twist and ride over them. The ball end of the inside operator The latter applies only to the foot change and front control boxes. Assemble the layshaft and see that the mainshaft sliding gear

It should now be possible to revolve the shafts and gears in all

gear positions and neutral.

olutch lever, followed by the kick starter spring (£1 37) and spring tover (£1 38). The spring tension should be between $\frac{1}{4}$ and $\frac{1}{2}$ turn tover (£1 38). Crank (G 42) is up against the stop. The desired when the K.S. Crank (G 42) is up against the stop. The desired tension may be obtained by locating the 'tail' of the spring in one of the slots in the spring cap. The kick start distance tube (HJ 21a) and kick start crank can then be fitted. (HJ 66b) has been inserted, The clutch can now be fitted after the push rod end piece also the push rod, bearing cap and

should be fitted first if this has been removed. Do not tighten the spring should fit round the 'lip' on the adjuster plate. Fit the control adjuster plate pins (FC 43) which hold this plate in position. Next fit the fulcrum pin, short control lever and spring; the ends of the plate with the male control ratchet assembled in position, followed by the female control ratchet, which fits on the square operator shaft. control lever (FC 49) is moved for changing up or down in 2nd and 3rd gear. Tighten up the adjuster plate pins. The stop plate and spring retainer can now be placed on and fastened down with the engage the slots on both sides of the female ratchet when the short Rotate the adjuster plate slightly until the teeth on the male ratchet two & nuts. RE-ASSEMBLY OF FOOT CHANGE. It maybe necessary to file the stop plate slightly, if a new The adjuster plate

past the correct gear. not to file away too much as this would allow the gears to be plate bush comes into contact with the stops. one is being fitted, in order to engage the gear before the control Care should be taken taken

If all has been made to operate up to this point, grease the foot change mechanism and fit the cap (HJ FC 1a-35) outer bush for operator (FC 50) gear indicator (FC 56) recessed washer (FC 7) and operator shaft securing pin (FC 24). Lastly fit the gear change foot lever to the desired position.

stamped on the gearbox cover In all correspondence please state the prefixed letter and number

following final drive sprockets are available. required, When ordering gears and sprockets state the number of teeth tred, and in the case of sprockets, state chain size. The

A gear ratio chart may be obtained on application

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