

SHACKLETON Mk. 3

**ALIGHTING GEAR
MAIN UNDERCARRIAGE**

Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	
		UNDERCARRIAGE, MAIN PORT AND STARBOARD (K2724, K2727, & D9529 Sht. 14)							
		Spares for :—							
27Y/262	ELECTRO-HYDRAULICS 5039	Absorber, shock				1	—	A	
12000	96D9529	BEAM, SUPPORT FOR MAIN UNDERCARRIAGE ON REAR SPAR, RH., LH., PORT AND STARBOARD, GROUP				4	—	MR/C	
		Spares for :—							
8550	110D9529	Bush, RH.				1	S1	C	
9769	327D9529	Bush, LH.				1	S1	C	
		ATTACHMENTS FOR MAIN UNDERCARRIAGE BEAM (96D9529) TO SPAR							
		Consisting of :—							
		Attachment of Support Beams to Rear Spar Web LH. and RH. Port and Starboard					—		
28D/15165	A30/6L	Bolt, $\frac{7}{8}$ " BSF				96	—	C	
28M/13553	A27/LP	Nut, $\frac{7}{8}$ " BSF				96	—	C	
28W/9419490	SP16/L	Washer, $\frac{7}{8}$ " dia.				96	—	C	
		Attachment, Support Beams to Rear Spar Boom, Top LH. and RH., Port and Starboard							
28M/13416	115D9529	Bolt, LH. and RH., outboard				2	S99		
28P/12721	116D9529	Bolt, LH. and RH., inboard				2	S99		
	A27/US	Nut, $\frac{7}{8}$ " BSF				4	—	C	
	SP9/H16	Pin, split				4	—	C	
		Attachment, Support Beams to Rear Spar Boom, Bottom RH. and LH., Port and Starboard							
28M/13416	126D9529	Bolt, LH. and RH., outboard				2	S99		
28P/12721	127D9529	Bolt, LH. and RH., inboard				2	S99		
	A27/US	Nut, $\frac{7}{8}$ " BSF				4	—	C	
	SP9/H16	Pin, split				4	—	C	
	18F4571	Pin, dowel, 12G x $\frac{1}{2}$ " long... ..				4	—		
		Attachment of Engine Rib to Undercarriage Beam, LH. and RH., Port and Starboard							
28M/12928	163D9529	Bolt, $\frac{1}{2}$ " BSF				24	—		
28W/9419487	A27/EP	Nut, $\frac{1}{2}$ " BSF				24	—	C	
	SP16/E	Washer, $\frac{1}{2}$ " dia.				24	—	C	

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		1	2	3	4			M.R.	
8548	111D9529	BEAM, MOUNTING, UNDERCARRIAGE JACK ASSEMBLY, COMPLETE WITH CAP, PORT AND STARBOARD, GROUP				1	—	MR/C	
		Spares for :—							
26DC/14762	13D9500	Adaptor, for caps				4	S1	MR/C	
9770	170D9529	Bolt, special for attaching cap to beam ...				8	S96	C	
8549	113D9529	Bush, split, for mounting beam, to be stored in pairs and fastened together				8	BS369	C	
28N/9156370	SP21	Nipple, grease, for cap				4	—	MR/C	
12222	118D9529	Screw, grub, for cap				4	DTD176	MR/C	
26DC/4760	15D9500	Washer, special				4	L34	MR/C	
		Attachments, Beam. Part No. 111D9529							
		Consisting of :—							
		Attachments—To Rear Spar Web							
28D/13113	A30/3E	Bolt, $\frac{1}{4}$ " BSF				44	—	MR/C	
28M/12928	A27/EP	Nut, $\frac{1}{4}$ " BSF				44	—	MR/C	
28W9418921	SP12/E	Washer, $\frac{1}{4}$ " dia.				44	—	MR/C	
		Attachments through Booms, Top and Bottom, LH. and RH. (Pre-Mod. 933)							
28M/12928	378D9529	Bolt, $\frac{1}{4}$ " BSF				8	—	MR	
28M/12928	A27/EP	Nut, plain, $\frac{1}{4}$ " BSF				8	—	MR/C	
28W/9418921	SP13/E	Washer, $\frac{1}{4}$ " dia.				8	—	MR/C	
		Attachments through Booms, Top and Bottom, LH. and RH. (Mod. 933)							
28M/12928	378D9529	Bolt, $\frac{1}{4}$ " BSF				7	—	MR	
28M/13534	620D9525	Bolt, $\frac{1}{4}$ " BSF, bottom, port				1	S94	MR	
28W/9418921	A27/EP	Nut, plain, $\frac{1}{4}$ " BSF				7	—	MR/C	
	A27/EC	Nut, castellated, $\frac{1}{4}$ " BSF				1	—	MR/C	
	SP13/E	Washer, $\frac{1}{4}$ " dia.				7	—	MR/C	
	1SS5034	Washer				1	—	MR	
		Attachments through Top Boom, RH., starboard							
	30dSS3078	Bolt				2	—	MR	
		Attachments through Top Boom, LH., Starboard							
	30SS4161	Bolt				2	—	MR	
		Attachments through Top and Bottom Booms							
	30kSS3078	Bolt, top and bottom booms, centre (Pre-Mod. 933)				4	—	MR	
	30kSS3078	Bolt, top and bottom booms, centre (Mod. 933)				3	—	MR	
	623D9529	Bolt, top and bottom booms, centre, port (Mod. 933)				1	S94	MR	

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Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	
		Attachments, Beam, Part No. 111D9529 (Cont'd)							
	30.I.SS3078	Attachments through Bottom Booms, Starboard (Pre-Mod. 933)				1	—	MR	
	30.SS3079	Bolt				1	—	MR	
	622D9529	Attachments through Bottom Booms, Starboard (Mod. 933)				1	S94	MR	
	621D9529	Bolt				1	S94	MR	
	4K2724	Bearing, for main undercarriage				1	BS369		

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Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	

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ALIGHTING GEAR MAIN UNDERCARRIAGE									
Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	
		BRACING AND SUPPORT STRUCTURE, MAIN UNDERCARRIAGE (K2727)							
10056	2K2727	Spares for :— BRACING, UNDERCARRIAGE, PORT AND STARBOARD, GROUP				1	—	B	
8556	4K2727	Spares for :— Bolt , special, for attachment of cross bracing to main undercarriage support strut				8	S96	C	
		STRUT, SUPPORT, MAIN UNDERCARRIAGE, RH. AND LH. (2 & 11K2728)							
8553	10K2728	Spares for :— Bolt , hex.hd. x 5½" long				1	S96	C	
11182	6K2728	Bush , ⅜" i/d x ⅝" long				2	S1	C	
11183	7K2728	Bush , 1¼" i/d x 1 7/8" long				1	S1	C	
11184	8K2728	Bush , ½" i/d x 1 1/8" long				2	S1	C	
	9K2728	Cap , bearing				1	L65		
8555	3K2727	Attachments, Bracing. Part No. 2K2727 Bolt , special for attachment of main support strut				4	S96	C	
12852	1K2764	TUBE, TIE, FOR UNDERCARRIAGE BRACING, INBOARD GROUP (Mod. 895)				2	—	C	
12853	1K2765	TUBE, TIE, FOR UNDERCARRIAGE BRACING, OUTBOARD, GROUP (Mod. 895)				2	—	C	
	2K2754	Consisting of:— END, FORK, BOTTOM, GROUP				1	—		
	4K2729	Consisting of:— Bush				2	S1		
	2aK2754	End, fork				1	L65/77		
	6K2754	END, FORK, TOP, GROUP				1	—		
	4K2729	Consisting of:— Bush				2	S1		
	6aK2754	End, fork				1	L65/77		
10359	6SS2265	Ferrule				16	S80	C	
	4fSS2265	Rod, tie				8	S80		
	3K2764	Tube , for inboard tie tube				1	L63		
	2K2765	Tube , for outboard tie tube				1	L63		
	1D9921	BRACKET, UNDERCARRIAGE, RADIUS ROD ATTACHMENT, PORT AND STARBOARD, GROUP				2	—	MR	
		Spares for :—							
12221	14D9500	Adaptor				1	S1	MR/C	
8559	3D9921	Bush , phospor bronze				2	DTD265	C	
26DC/4761	15D9500	Washer , bronze				1	L34	C	

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Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	
		Attachments, Bracket. Part No. 1D9921							
12224	99D9529	Bolt, $\frac{3}{8}$ " BSF att. of radius rod				2	S44	MR/C	
12225	100D9529	Bolt, $\frac{3}{8}$ " BSF, for attaching radius rod bracket to engine subframe bracket				4	S96	MR/C	
28D/13853	A30/4E	Bolt, $\frac{1}{4}$ " BSF x 0.9" long				8	—	C	
28D/13100	A30/5E	Bolt, $\frac{1}{4}$ " BSF x 1.0" long				8	—	C	
28D/14582	A30/6J	Bolt, $\frac{3}{8}$ " BSF x 1.25" long				4	—	C	
28D/13262	A30/6E	Bolt, $\frac{3}{8}$ " BSF x 1.1" long				4	—	C	
28D/14367	A30/7J	Bolt, $\frac{3}{8}$ " BSF x 1.35" long				4	—	C	
28D/13113	A30/3E	Bolt, $\frac{1}{4}$ " BSF x 0.8" long				4	—	C	
28D/14364	A30/5J	Bolt, $\frac{3}{8}$ " BSF x 1.15" long				4	—	C	
28M/13121	A27/CS	Nut, $\frac{3}{8}$ " dia.				4	—	C	
28P/12721	SP9/H16	Pin, split $\frac{5}{16}$ " dia. x 2" long				6	—	C	
	108D9529	Shim				QR	—		
	109D9529	Shim				QR	—		
	137D9529	Shim				QR	—		
28W/9419471	SP13/S	Washer, $\frac{3}{4}$ " dia.				4	—	C	
	7F9277	BRACKET, GUIDE FOR RADIUS ROD AT UP-LOCK, GROUP				1	—		
		Attachments, Bracket. Part No. 7F9277							
28Q/6638	AS/2227/404	Rivet, snap hd, $\frac{1}{8}$ " dia. x $\frac{1}{4}$ " long				4	—	C	
28Q/6639	AS/2227/405	Rivet, snap hd, $\frac{1}{8}$ " dia. x $\frac{1}{16}$ " long				24	—	C	
27G/4120	DUNLOP AH/50437	Brake, unit port, inboard and starboard outboard				1	—	A	
27G/4119	DUNLOP AH50436	Brake, unit port, outboard, and starboard inboard				1	—	A	
27A/3587	DUNLOP DC4420	Cover, outer, for wheels				4	—	B	
27A/4352	DUNLOP DR4421	Cover, outer rib treaded (Alternative to 27A/3587)				4	—	B	
27Y/260	ELECTRO HYDRAULICS 4860	Jack, down-lock				1	—	A	
27Y/257	ELECTRO HYDRAULICS 4655	Jack, undercarriage				1	—	A	
	DUNLOP AH50444	Piping, maxaret installation. (This includes piping for both port and starboard). (For spares see AP4515C, Vol. 3, Pt. 1, Section 2, Chap. 14)				1	—		
27Y/4449	GP2 ELECTRO HYDRAULICS	Pin, mills $\frac{3}{16}$ " dia. x $\frac{1}{2}$ " long				1	—	C	
27Y/259	"1698	Rod, radius				1	—	A	

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Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	
		Attachments, Rod, radius. Part No. 1698							
27Y/5519	ELECTRO HYDRAULICS 169859	Bolt	...	...	...	1	—	C	
27Y/5515	ELECTRO HYDRAULICS 169860	Nut	...	...	...	1	—	C	
27Y/5552	ELECTRO HYDRAULIC 169861	Washer	...	...	...	1	—	C	
27A/3589	DUNLOP DT4406	Tube, inner, for wheels	...	...	...	4	—	C	
27G/2420	DUNLOP AC11512/7	Unit, maxaret, for port outer, and starboard inner brake. (For Spares see AP4515C, Vol. 3, Pt. 1, Section 2, Chap. 14)				1	—		
27G/2421	DUNLOP AC11518/7	Unit, maxaret, for port inner, and starboard outer brake. (For Spares see AP4515C, Vol. 3, Pt. 1, Section 2, Chap. 14)				1	—		
27Y/261	ELECTRO HYDRAULICS 1693	Undercarriage, main	...	...	...	1	—	A	
27Y/264	ELECTRO HYDRAULICS 1699	Up-lock, for main undercarriage	...	...	...	1	—	A	
		Attachments, Uplock. Part No. 1699							
28D/13262	A30/6E	Bolt, hex.hd, 1/4" BSF x 1-1" long	...	...	...	4	—	C	
28D/13360	A30/7E	Bolt, hex.hd, 1/4" BSF x 1-2" long	...	...	...	6	—	C	
28M/1011467	A27/ES	Nut, 1/4" BSF	...	...	...	10	—	C	
28P/1007741	SP/9/C8	Pin, split 1/8" dia. x 1" long	...	...	...	10	—	C	
28W/9418921	SP13/E	Washer, thin 0-270 int. dia.	...	...	...	10	—	C	
27A/	DUNLOP AH51155	WHEEL, MAIN UNDERCARRIAGE (Mod. 735) (For Spares see AP4515C, Vol. 3, Pt. 1, Section 2, Chap. 14)				4	—	A	

ALIGHTING GEAR—MAIN UNDERCARRIAGE

SUMMARY OF STANDARD ITEMS

Stores Ref.		No. off	Stores Ref.		No. off	Stores Ref.		No. off
Section	Ref. No.		Section	Ref. No.		Section	Ref. No.	
27A	3587	1	28D	13100	4	28N	9796	4
27A	3589	4	28D	13113	48			
27A	3939	4	28D	13262	8	28P	12462	10
			28D	13360	6	28P	12721	14
27G	Part No. AC11512/7	1	28D	13853	8			
27G	AC11518/7	1	28D	14364	4	28Q	6638	4
27G	AH50436	1	28D	14367	4	28Q	6639	24
27G	AH50437	1	28D	14582	4			
			28D	15165	96	28W	12253	70
27Y	257	1				28W	12297	24
27Y	259	1	28M	12928	60	28W	12355	6
27Y	261	1	28M	12929	6	28W	12498	96
27Y	262	2	28M	12930	10	28W	13985	4
27Y	264	1	28M	13121	4			
27Y	3589	4	28M	13416	8			
27Y	4449	2	28M	13553	96			
27Y	5515	1						

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ALIGHTING GEAR

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NOSEWHEEL UNDERCARRIAGE

Ref. No.	Part No.	Description				No. off	Matl. Spec.	Cl. of St.	Plate and Illust'n No.
		1	2	3	4			M.R.	
MOUNTING, UP-LOCK NOSEWHEEL UNDERCARRIAGE (1D10005)									
Spares for :—									
27Q1277	DOWTY A6891Y	Up-lock...	...	...	...	1	—	A	
Attachments for Part No. A6891Y									
28D/12519	A25/3E	Bolt, hex.hd, 1/4" BSF	...	...	...	4	—	C	
28D/12520	A25/4E	Bolt, hex.hd, 1/4" BSF	...	...	...	4	—	C	
28M/12930	A27/ES	Nut, 1/4" BSF	...	...	...	8	—	C	
28P/12462	SP9/C8	Pin, split	...	...	...	8	—	C	
28W/12253	SP13/E	Washer, thin	...	...	...	8	—	C	
NOSEWHEEL UNDERCARRIAGE AND MOUNTING ASSEMBLIES (1K2737)									
Spares for :—									
8831	2K2737	Block, bearing for jack	...	...	...	2	HTS	C	
	4K2737	Bolt, jack attachment (Mod. 884)	...	...	...	1	HTS	C	
27A/3588	DUNLOP DC4983	Cover, outer, 30 x 9-00—15 in.	...	...	...	2	—	A	
27Q/1488	DOWTY A8278Y	Jack, nose undercarriage	...	...	...	1	—	A	
27Q/1621	DOWTY E8775	Leg, main, nose undercarriage	...	...	...	1	—	A	
8830	1K2738	ROD, OPERATING UP-LOCK LEVER, GROUP				1	—	B	
27Q/1666	DOWTY E6890Y Mk.A	Stay, retracting (1st 24 A/C. only)	...	...	...	1	—	A	
27Q1620	DOWTY E8672Y	Stay, retracting	...	...	...	1	—	A	
27A/3527	DUNLOP FE3	Tube, inner, 30 x 9-00—15 in.	...	...	...	2	—	B	
27A/3548	DUNLOP AH9527	WHEEL, NOSEWHEEL, UNDERCARRIAGE (For Spares see AP4515C, Vol. 3, Pt. 1, Section 2, Chap. 14)				2	—	A	

ALIGHTING GEAR—NOSE WHEEL UNDERCARRIAGE
SUMMARY OF STANDARD ITEMS

Stores Ref.		No. off	Stores Ref.		No. off	Stores Ref.		No. off
Section	Ref. No.		Section	Ref. No.		Section	Ref. No.	
27A	3527	2						
27A	3548	2						
27A	3588	2						
27Q	1277	1						
27Q	1488	1						
27Q	1621	1						
27Q	1666	1						
28D	12519	4						
28D	12520	4						
28M	12930	8						
28P	12462	2						
28W	12253	8						

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