



ROTAVATOR HB 80, HB 100

**Reservedelsliste
Spare parts list
Ersatzteilliste
Onderdelenlijst
Liste de pièce de rechange
Lista de Piezas
Parti di ricambio**

Howard HB 80, HB 100 – Numerical Parts List



Part No.	Illus. or Item No.	Bin No.	Part No.	Illus. or Item No.	Bin No.	Part No.	Illus. or Item No.	Bin No.	Part No.	Illus. or Item No.	Bin No.	Part No.	Illus. or Item No.	Bin No.
3275	3		330354	184		650076	417		204008310	10		301212650	282	
3300	186		330356	419		650077	157		204008500	13		301212705	331	
3301	187		330357	20		650078	416		204010960	11		301212755	368	
3303	190		330358	30		650079	104		204010970	12		301214355	206	
3312	309		330359	31		650084	116		204011030	5		301214555	260	
3313	307		330360	404		650086	170		204011050	8		301214555	212	
5378	186A		330363	404		650104	401		204011060	9		301216555	242	
5379	187A		330369	386		650107	402		204011390	4		301216700	354	
9348	188		330379	409		650108	398		204011410	7		301216805	313	
9349	189		330380	120		650112	374		204011420	6		301314300	124	
50934	305		330381	145		650113	372		204011770	16		301314300	191	
50934	333		330406	183		650115	375		204011800	15		301408165	54	
50934	346		330408	152		650116	380		204013360	1		301410160	39	
52053	190		330410	150		650117	381		204013380	2		301410255	142	
58173	421		330411	195		650118	379		208001190	70		301410255	60	
58195	N.I.		330413	299		650119	378		208001510	176		301410255	155	
58197	419		330416	298		650120	385		208001790	130		301410255	414	
58282	N.I.		330419	423		650124	384		208002790	68		301410305	98	
58289	N.I.		330425	293		650125	369		208010930	266		301410405	97	
60495	254		650010	42		650127	374		208010990	297		301412200	399	
60495	306		650013	121		650132	174		208012270	14		301412250	140	
60495	334		650014	99		650133	173		208012655	250		301412305	42	
60495	347		650015	102		650134	172		208012715	336		301412305	77	
330033	153		650017	118		650135	182		208012865	373		301412305	115	
330034	153		650018	117		650157	314		208015125	193		301412350	295	
330035	154		650021	28		650173	256		208015230	401		301412350	364	
330037	69		650026	81		650183	251		208016030	26		301412350	408	
330038	56		650027	79		650184	249		208041090	420		301414350	224	
330039	58		650028	44		650187	255		208044090	339		301416350	285	
330040	58		650031	57		650188	252		208056410	113		301416350	397	
330041	72		650032	62		650189	243		251635121	51		301416350	413	
330042	72		650033	63		650190	244		252037121	149		301416355	271	
330044	67		650034	46		650191	244		252538071	227		301416355	412	
330045	67		650035	45		650193	245		252542011	228		301416455	355	
330046	52		650036	47		650194	261		252547152	229		301416455	412	
330083	99		650037	47		650202	226		253562182	232		301616115	353	
330095	220		650038	47		650203	226		254014492	291		301616120	36	
330105	41		650039	73		650205	231		254510251	175		301616120	352	
330115	335		650040	48		650208	234		256013311	131		3017112015	20	
330118	403		650041	71		650212	261		256711301	147		3017112015	165	
330232	366		650042	74		650213	243		261070131	129		3017210015	95	
330233	366		650044	75		650240	338		261070131	178		3017210045	247	
330237	371		650047	67		650247	335		261070132	128		301721010	235	
330289	196		650048	65		650248	114		261070132	179		3017212010	280	
330290	197		650049	64		650256	152		261070132	233		3017212010	288	
330291	198		650050	66		650258	150		266242071	49		3017212010	293	
330305	293		650052	67		650270	183		267555122	148		3017212015	406	
330309	299		650053	67		650274	308		268565121	91		3017212015	91	
330313	298		650054	67		650299	310		301208305	168		3017212015	107	
330320	296		650055	67		650345	25		301210350	167		3017212015	200	
330322	284		650056	67		650346	29		301210605	248		3017212015	262	
330323	287		650057	67		650347	24		301212355	264		3017212015	329	
330323	288		650064	122		650348	23		301212405	370		3017212015	375	
330324	288		650066	119		650349	22		301212405	377		3017212035	105	
330338	292		650068	144		650371	153		301212505	93		3017212040	362	
330349	422		650068	153		650376	94		301212550	237		3017212045	366	
330350	422		650068	209		650392	123		301212550	290		3017214010	222	
330353	185		650076	211		650397	6		301212555	106		3017214010	258	

HOWARD

It is important that when ordering spare parts, the user of a machine should always give the serial number of the particular machine for which the spare part is required, the part number (not the illustration number) and description. We cannot guarantee to supply correct parts unless these numbers are quoted.

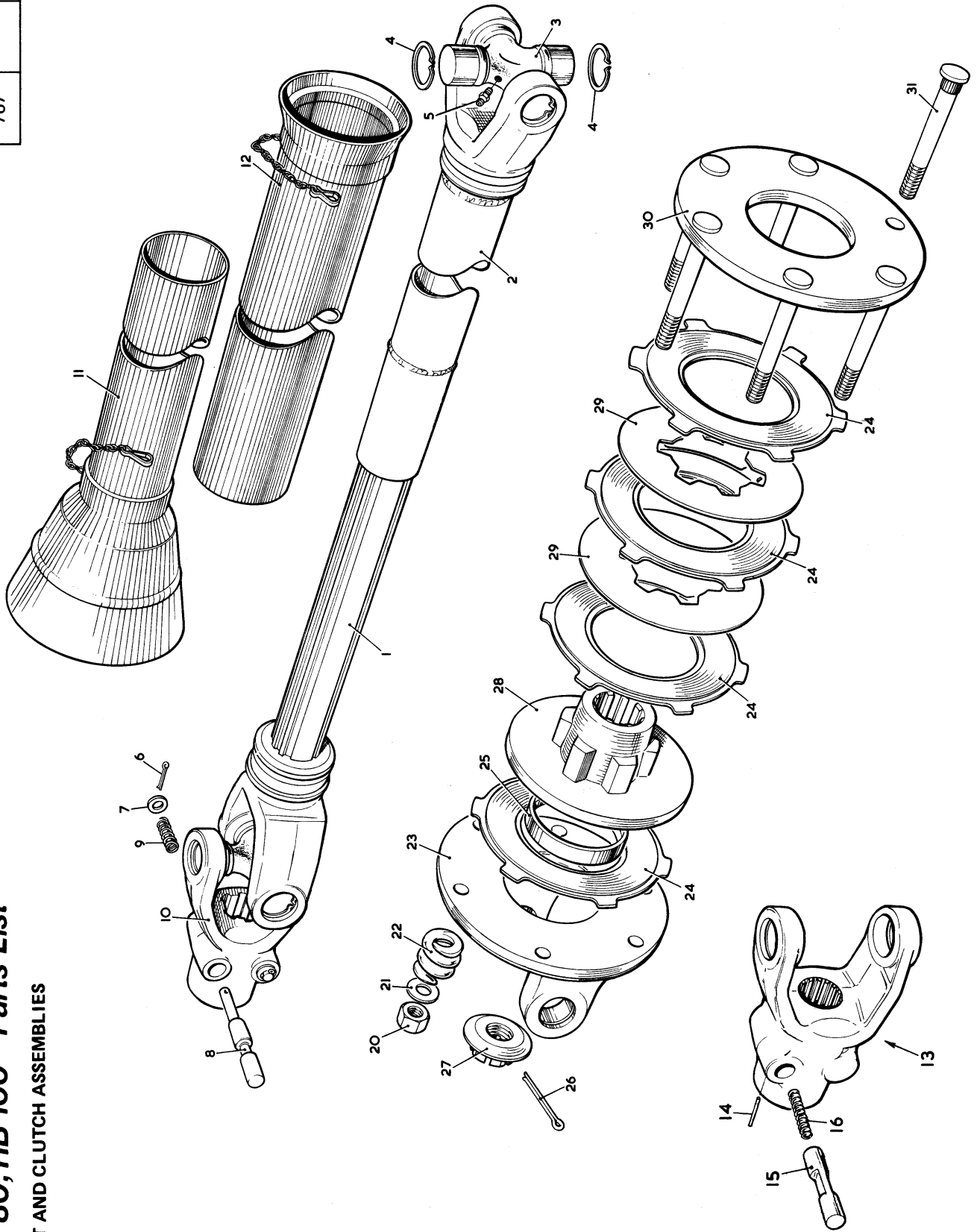
The Bulletin columns provide space to record the reference number of any Bulletin issued concerning that part.

When writing in the Bin locations, complete the numerical index first and then transfer the information to the other pages.

Howard HB 80, HB 100 – Parts List

UNIVERSAL JOINT AND CLUTCH ASSEMBLIES

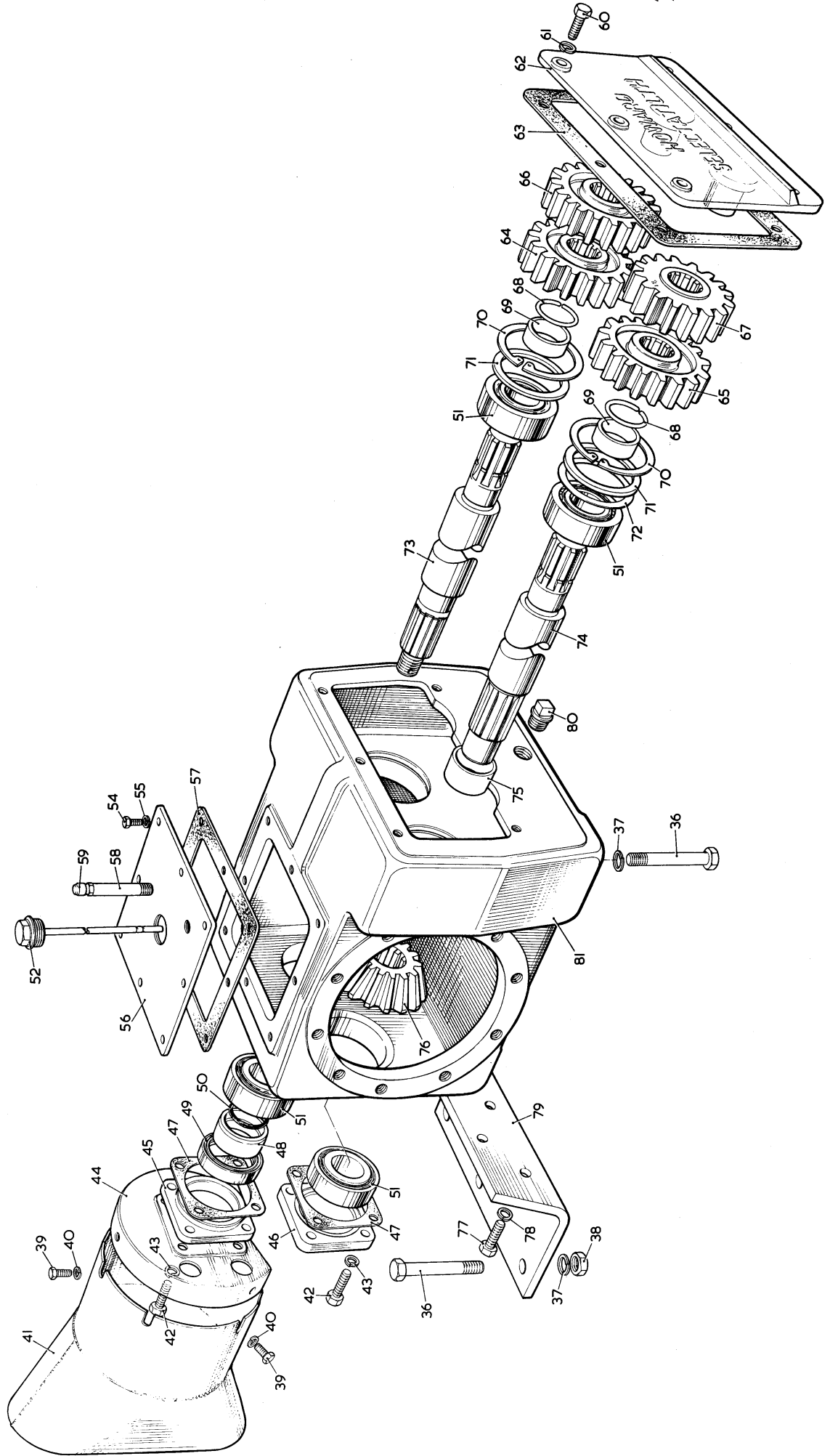
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<i>Illus No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. off</i>	<i>Bulletin</i>	<i>Bin No.</i>
UNIVERSAL JOINT ASSEMBLIES					
700323		Universal joint assembly 141-VO-0046 24" - 36 ³ / ₈ " extension. 540 rpm Non-rotating guard. Illustration numbers 1 - 12. 1	1		
700326		Universal joint assembly 24" - 36 ³ / ₈ " extension. 1000 rpm. Non-rotating guard. Illustration numbers 1 - 5 and 11 - 16. 1	1		
1	204013360	Yoke and splined shaft 41.82.004.1728 1	1		
2	204013380	Yoke and tube 41.61.004 - 1202 1	1		
3	3275	Spider assembly K.5.GB.179 2	2		
4	204011390	Circlip K.3.7.GB.19 8	8		
5	204011030	Journal lubricator - 94.GB.2204 2	2		
6	204008120	PTO yoke assembly K3.4.GB.3458 1	1		
7	204011420	comprising:— Cotter - 8.72.GB.69 2	2		
8	204011410	Washer 5.75.GB.59 2	2		
9	204011050	Pin - 94.GB.2747 2	2		
10	204011060	Spring - 94.GB.2839 2	2		
11	204008310	Yoke - K3.4.GB.3441 1	1		
12	*204010960	Inner half guard BP93.VM1.1902 1	1		
13	*204010970	Outer half guard BP93.VF3.1604 1	1		
*Supplied to Export market only. U.K. market obtain from M/S Atkinson.					
14	204008500	PTO yoke assembly K3.4.W.3678 1	1		
15	208012270	includes:— Tension pin 00.33.04 2	2		
16	204011800	Pin 00.08.0.1 2	2		
17-19	204011770	Spring 00.12.00 2	2		
17-19 not allocated					
CLUTCH ASSEMBLY					
330357		Clutch assembly Illustration numbers 20 - 25 and 28 - 31 1	1		
20	307112015	Nut M12 6	6		
21	308120025	Flat washer 12mm dia. 6	6		
22	650349	Spring 6	6		
23	650348	Clutch plate 1	1		
24	650347	Friction disc 4	4		
25	650345	Sleeve 1	1		
26	208016030	Split pin 4mm dia. x 56mm long 1	1		
27	650084	Clutch nut 1	1		
28	650021	Clutch disc 1	1		
29	650346	Wearing disc 2	2		
30	330358	Pressure plate includes 1	1		
31	330359	Stud 6	6		
32 - 35	not allocated				
				767	3
				4.77	

Howard HB 80, HB 100 – Parts List

GEARBOX AND FITTINGS

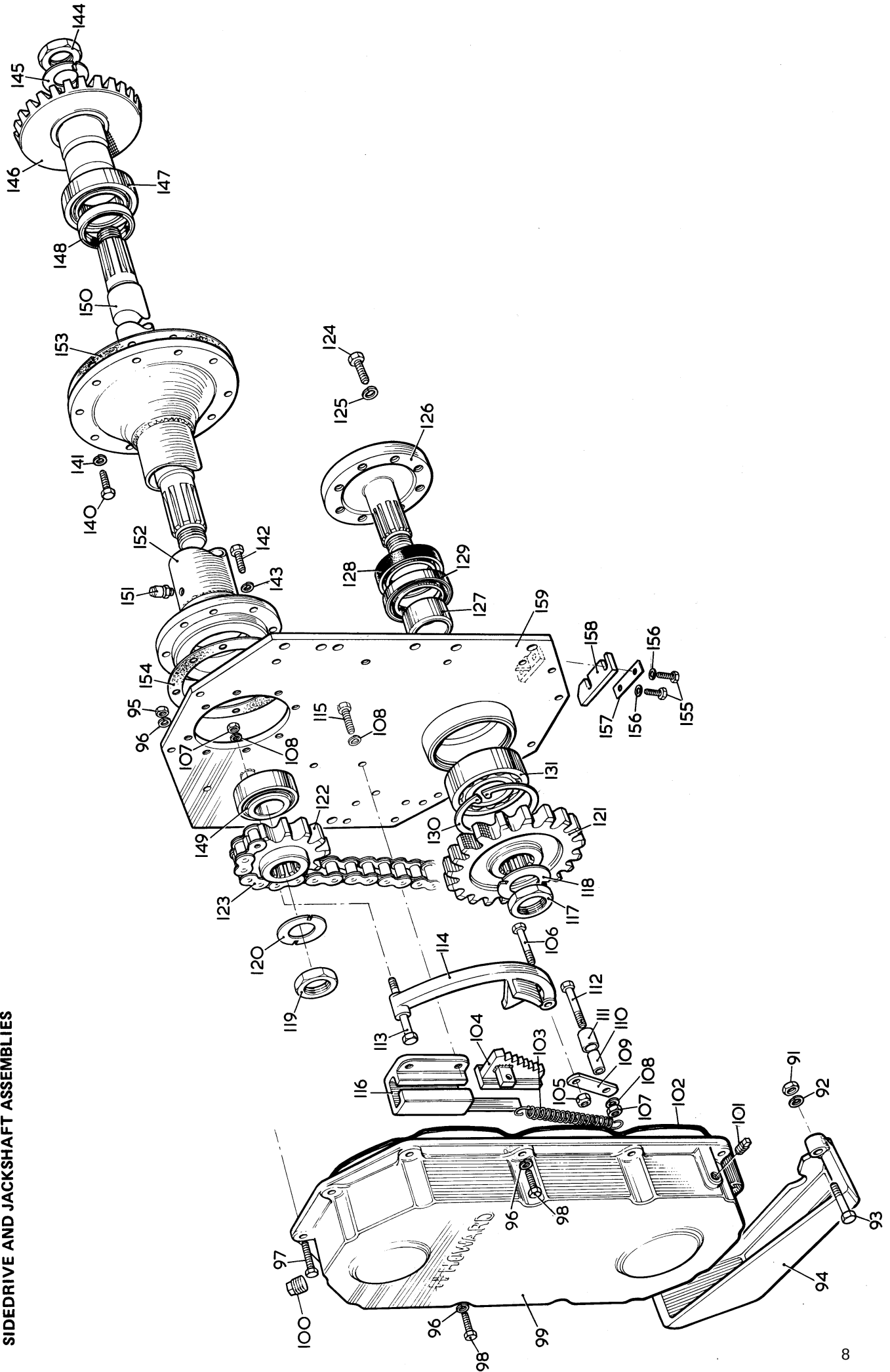


<i>Illus. Part Number</i> <i>No.</i>	<i>Description</i>	<i>No. off</i>	<i>Bulletin</i>	<i>Bin No.</i>
GEARBOX AND FIXINGS				
36	Bolt M16 x 2.0 x 120mm long	...		
37	Spring washer 16mm dia.	...		
38	Nut M16 x 2.0	...		
39	Setscrew M10 x 1.5 x 16mm long	...		
40	Spring washer 10mm dia.	...		
41	Clutch guard	...		
42	Gearbox assembly illustration numbers 42 - 87	...		
43	Setscrew M12 x 1.75 x 30 mm long	...		
44	Spring washer 12mm dia.	...		
45	Bracket - clutch guard	...		
46	Input bearing cover	...		
47	Pinion cover	...		
48	Shim 0.1mm	...		
49	Gasket 0.25mm	...		
50	Gasket 0.5mm	...		
51	Spacer - clutch	...		
52	Oilseal 75mm OD x 55mm ID x 12mm W	...		
53	semi dual lip	...		
54	'O' ring 1 1/2" OD x 1 1/4" ID x .139"	...		
55	Bearing 3 1/2" OD x 1 5/8" ID x 1 3/16" W	...		
56	Cone HM 803110 Cup HM 803146	...		
57	Dip stick	...		
58	Setscrew M8 x 1.25 x 16mm long	...		
59	Spring washer 8mm dia.	...		
60	Top cover	...		
61	Gasket-top cover	...		
62	Breather assembly	...		
63	comprising:-	...		
64	Extension tube	...		
65	Pressure release valve 1/8 BSP	...		
66	Tecalemit OA 6862	...		
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Howard HB 80, HB 100 – Parts List

SIDEDRIVE AND JACKSHAFT ASSEMBLIES

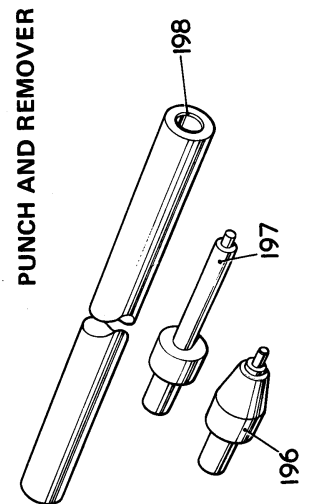
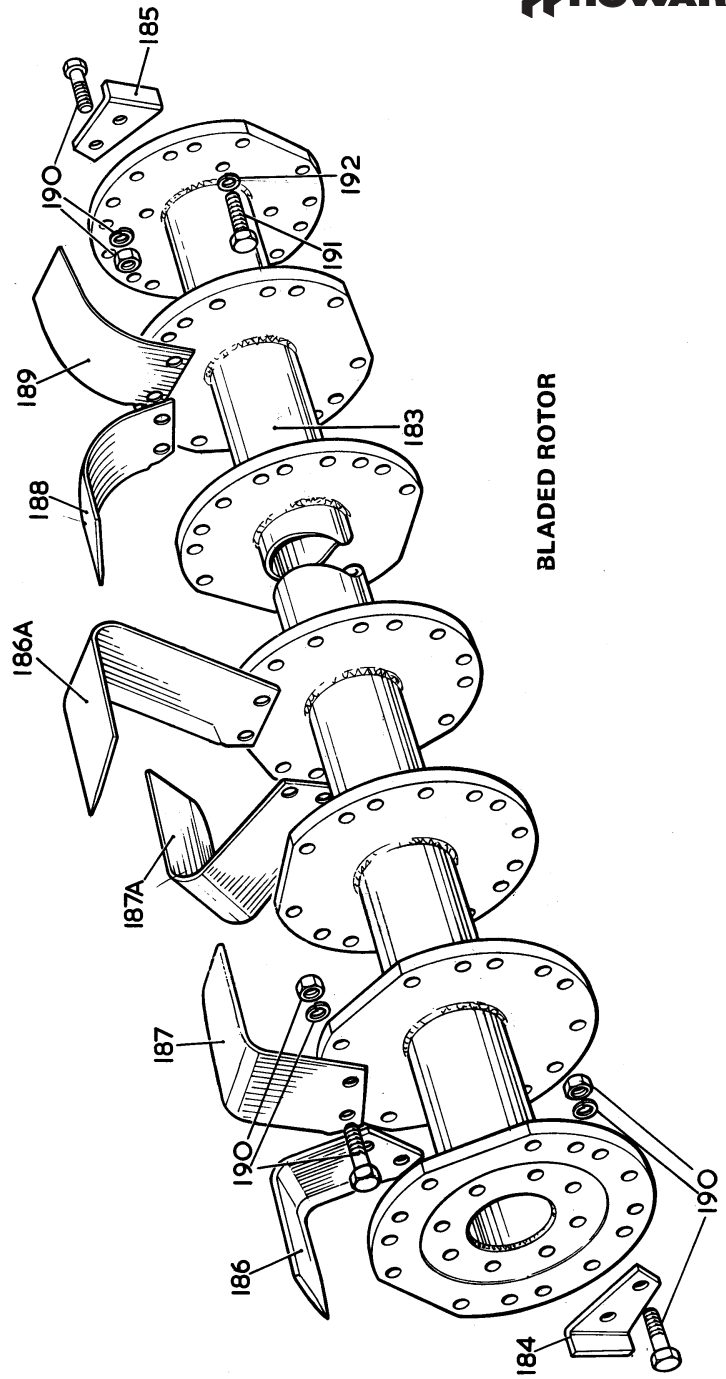
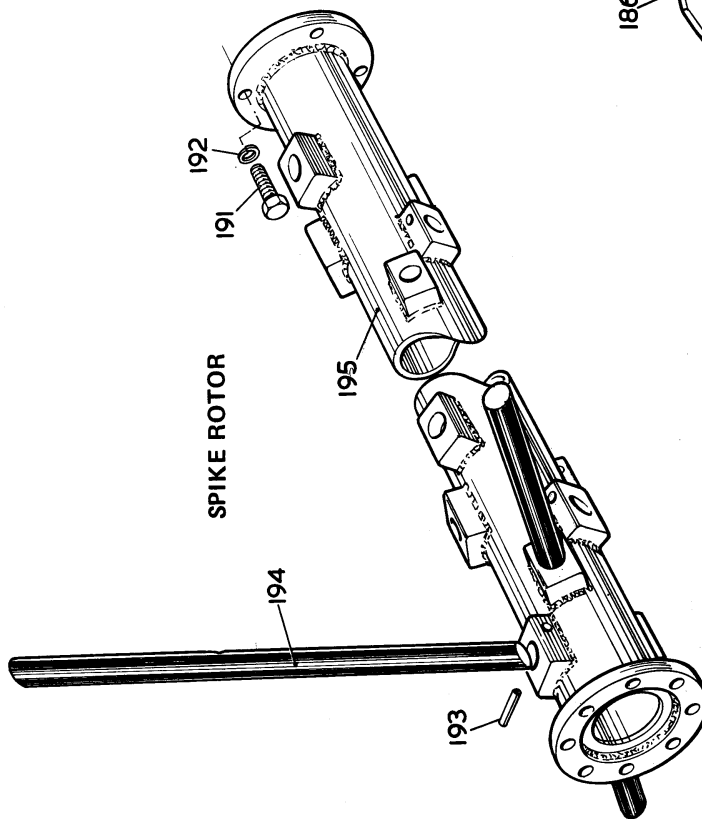
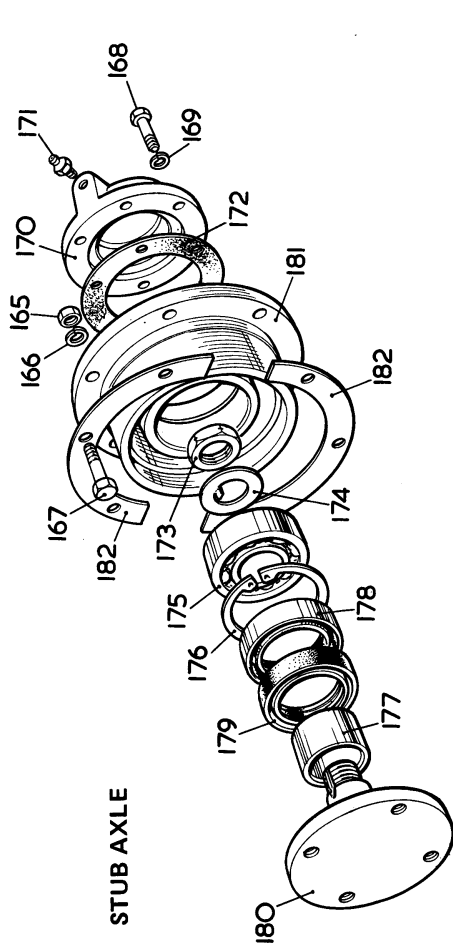
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<i>Illus No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. off</i>	<i>Bulletin</i>	<i>Bin No.</i>
SIDEDRIVE ASSEMBLY					
91	307212015	Nut M12 x 1.75	2		
92	308120045	Spring washer 12mm dia.	2		
93	301212505	Bolt M12 x 1.75 x 50mm long	2		
94	650376	Chaincase skid	1		
95	307210015	Nut M10 x 1.5	10		
96	308100045	Spring washer 10mm dia.	12		
97	301410405	Setscrew M10 x 1.5 x 40mm long	10		
98	301410305	Setscrew M10 x 1.5 x 30mm long	2		
330083		Chaincase assembly comprising:—	1		
99	650014	Chaincase	1		
100	203031200	Plug ¾" BSP square head	1		
101	203031040	Plug ¼" BSP square head	1		
102	650015	Rubber seal	1		
103	650663	Spring	1		
104	650078	Ratchet	1		
105	307212035	Locknut M12 x .175	1		
106	301212555	Bolt M12 x 1.75 x 55mm long	1		
107	307212015	Nut M12 x 1.75	2		
108	308120045	Spring washer 12mm dia.	4		
109	650629	Roller plate	1		
110	650630	Spacer	1		
111	650631	Roller	1		
112	650632	Special bolt	1		
113	208056410	Bolt M12 x 1.75 x 80mm long	1		
114	650248	Chain tensioner	1		
115	301412305	Setscrew M12 x 1.75 x 30mm long	2		
116	650079	Ratchet housing	1		
117	650018	Special nut	1		
118	650017	Tab washer	1		
119	650066	Special nut	1		
120	650067	Tab washer	1		
121	650013	Sprocket 17T	1		
122	650064	Jackshaft sprocket 11T	1		
123	204002140	Chain assembly 20 inner - 20 outer links 1½" pitch	1		
124	301314305	Setscrew M14 x 1.5 x 30mm long	8		
125	308140045	Spring washer 14mm dia.	8		
126	650609	Rotor drive shaft	1		
127	650607	Spacer	1		
128	261070132	Oilseal 100mm x 70 x 13 W Labyrinth	1		
129	261070131	Oilseal 100mm x 70 x 13 W single lip	1		
130	208001790	Circlip 130mm dia. internal	1		
131	256013311	Ballbearing 130mm x 60 x .31 W BRM 060	1		
132 to 139 not allocated					
JACKSHAFT ASSEMBLY					
140	301412250	Setscrew M12 x 1.75 x 25mm long	10		
141	308120040	Spring washer 12mm dia.	10		
142	301410250	Setscrew M10 x 1.5 x 25mm long	8		
143	308100040	Spring washer 10mm dia.	8		
144	650066	Special nut	1		
145	330380	Tab washer	1		
146	650796	Crownwheel 28T	1		
147	256711301	Bearing — Timken cup 3920 cone 3984	1		
148	288565121	Oilseal 85mm OD x 65 ID x 12W	1		
149	252037121	Bearing — Timken cup 3720 cone 3780	1		
150	650258	Jackshaft HB80	1		
330410		Jackshaft HB100	1		
203032010		Pressure release valve ¾" BSP	1		
151		Tecalamit OA6862	1		
152	650256	Jackshaft housing HB80	1		
330408		Jackshaft housing HB100	1		
153	330033	Shim 0.2mm	as req'd		
330034		Shim 0.1mm	as req'd		
650068		Gasket 1mm	as req'd		
650371		Gasket 0.5mm	as req'd		
154	330035	Gasket 0.25mm	as req'd		
650069		Gasket 1mm	as req'd		
155	301410255	Setscrew M10 x 1.5 x 25mm long	2		
156	308100035	Shakeproof washer 10mm dia.	2		
157	650077	Backing strip	1		
158	650076	Cutter blade	1		
159	650857	Backplate	1		
160 - 164 not allocated					

Howard HB 80, HB 100 – Parts List

767	4.77	8
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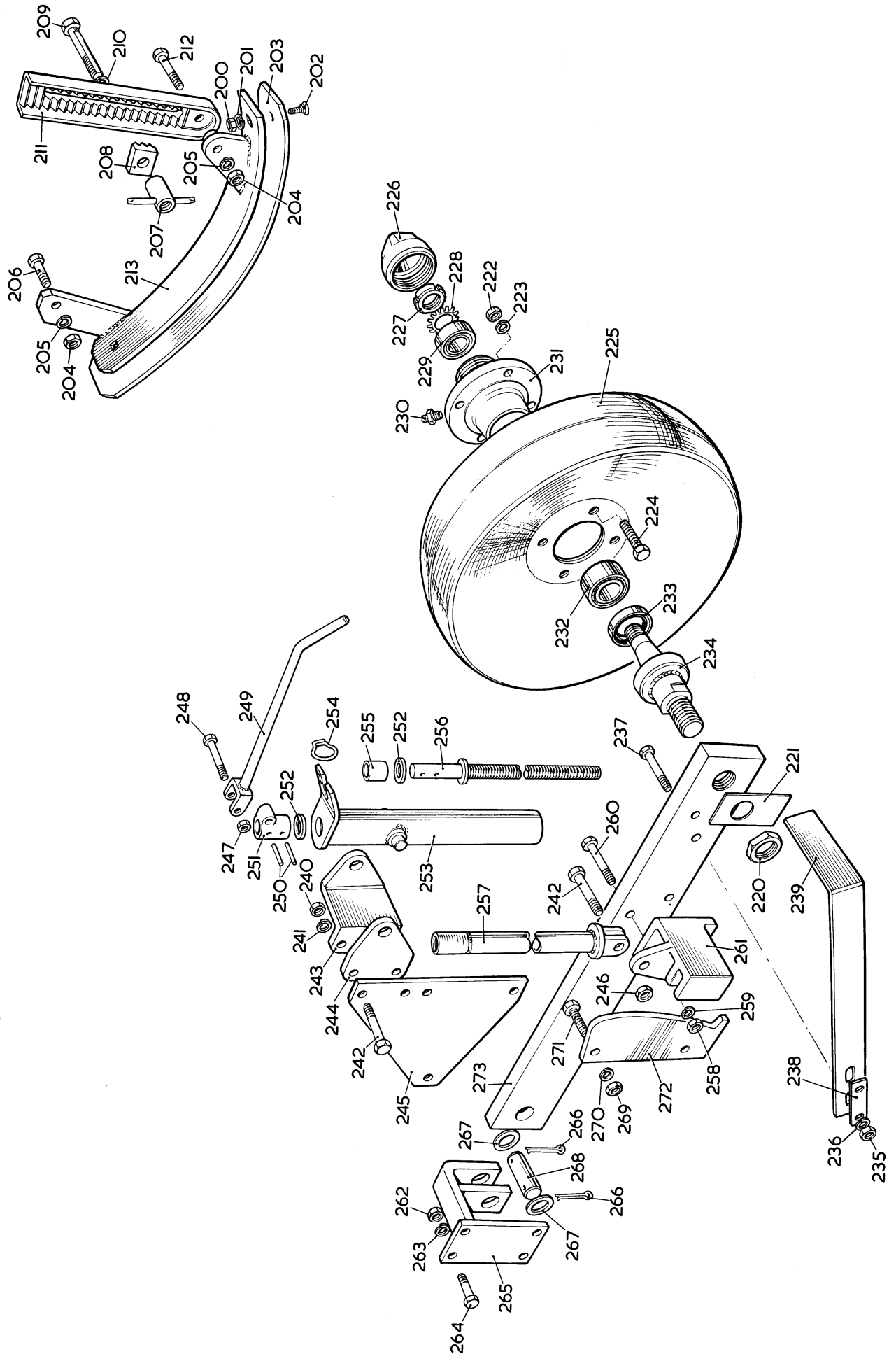
<i>Illus. Part Number No.</i>	<i>Description</i>	<i>No. off</i>	<i>Bulletin</i>	<i>Bin No.</i>
STUB AXLE ASSEMBLY				
165 307210010	Nut M10 x 1.5	...	...	...
166 308100040	Spring washer 10mm dia.	...	...	...
167 301210350	Bolt M10 x 1.5 x 35mm long	...	...	...
168 301208305	Bolt M8 x 1.25 x 30mm long	...	...	...
169 308080045	Spring washer 8mm dia.	...	...	...
170 650606	End cap	...	...	...
171 202030020	Grease nipple $\frac{1}{8}$ " BSP	...	...	...
172 650134	Gasket 0.5mm	...	...	...
650604	Gasket 1mm	...	...	...
173 650133	Nut LH	...	...	...
174 650132	Tab washer	...	...	...
175 254510251	Ballbearing 100mm OD x 45 ID x 25W	...	...	...
	BRM 045	...	...	...
176 208001510	Circlip 100mm dia. internal	...	...	...
177 650607	Spacer	...	...	...
178 261070131	Oilseal 100mm OD x 70 ID x 13 W single lip	...	...	...
179 261070132	Oilseal 100mm OD x 70 ID x 13 W labyrinth	...	...	...
180 650611	Stub axle	...	...	...
181 650608	Stub axle bearing housing	...	...	...
182 650135	Shim 1mm	...	...	...

<i>Illus. Part Number No.</i>	<i>Description</i>	<i>No. off</i>	<i>Bulletin</i>	<i>Bin No.</i>
BLADED ROTOR ASSEMBLY				
183 650270	Rotor - 80" model	...	...	...
330406	Rotor - 100" model	...	...	...
184 330354	Shearing blade L.H.	...	...	...
185 330353	Shearing blade R.H.	...	...	...
186 3900	Straight shank blade L.H.	...	...	...
187 3901	Straight shank blade R.H.	...	...	...
186A*5978	Long shank blade L.H.	...	...	...
187A*5979	Long shank blade R.H.	...	...	...
188 *9948	Speed blade L.H.	...	...	...
189 *9949	Speed blade R.H.	...	...	...
	*Alternatives	...	...	...
190 †3903	Blade bolt assembly	...	...	...
	including:—	...	...	...
108081440	Spring washer $\frac{1}{2}$ " dia.	...	...	...
52053	High nut	...	...	...
	†Supplied in packets of 10	...	...	...
191 301314300	Setscrew M14 x 1.5 x 30mm long	...	...	...
192 308140040	Spring washer 14mm dia.	...	...	...
SPIKE ROTOR ASSEMBLY				
193 208015125	Spirol pin $\frac{1}{2}$ " dia. x $1\frac{3}{4}$ " long	...	...	...
194 650633	Spike	...	...	...
195 650621	Rotor - 80" model	...	...	...
330411	Rotor - 100" model	...	...	...
196 330289	Pin punch	...	...	...
197 330290	Pin remover	...	...	...
198 330291	Pin bar	...	...	...
199	- not allocated	...	...	...

Howard HB 80, HB 100 – Parts List

DEPTH CONTROL WHEEL ASSEMBLY LH & RH

767	4.77	10
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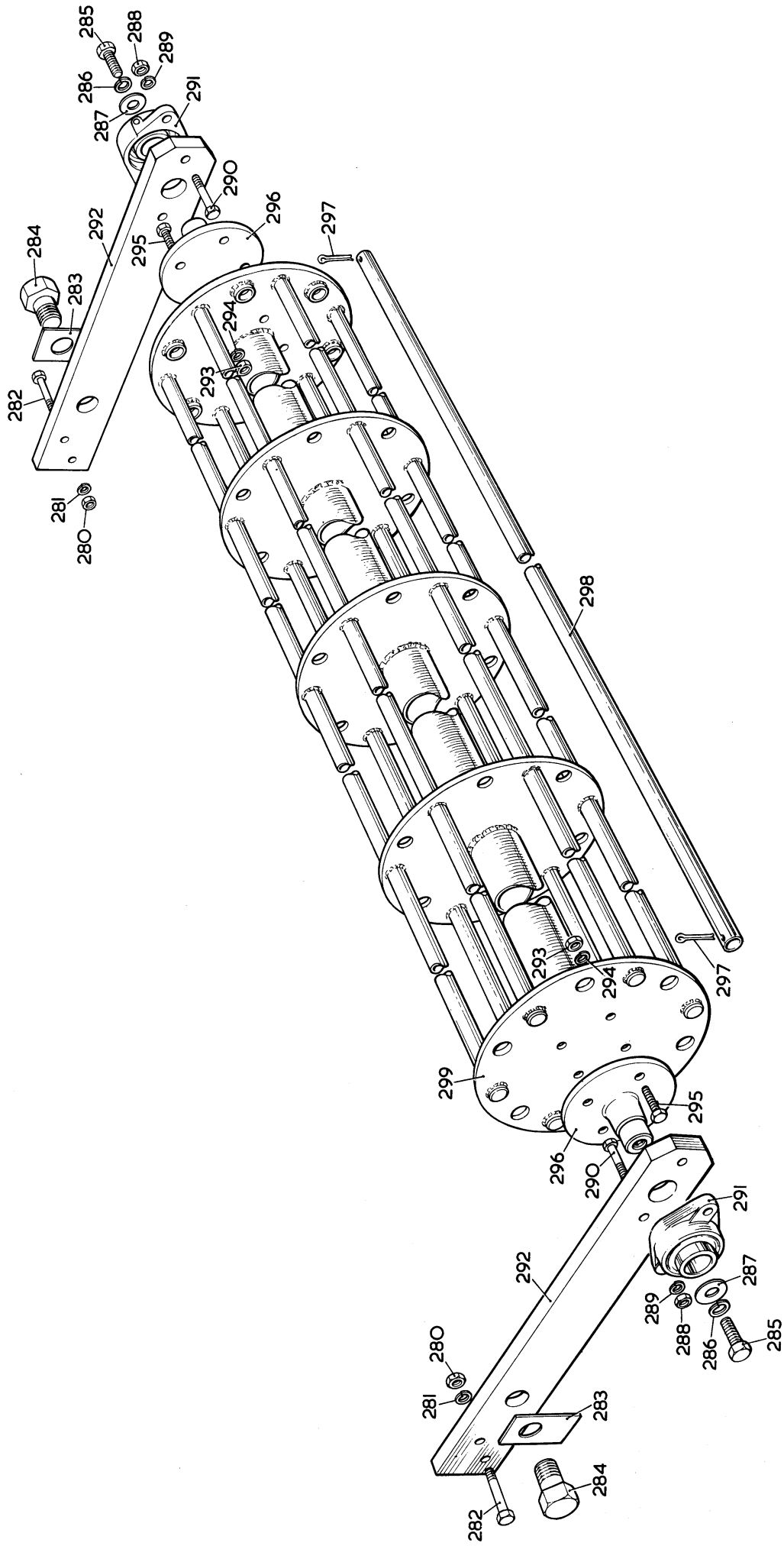


<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. off</i>	<i>Bin No</i>	<i>Bulletin</i>	<i>Bin No.</i>
DEPTH SKID ASSEMBLY L.H. AND R.H. OPTIONAL 80" MODEL ONLY						
200	307212015	Nut M12 x 1.75 ...	4			
201	308120045	Spring washer 12mm dia. ...	4			
202	319412300	Bolt M12 x 1.75 x 30mm long. C'sunk coach	4			
203	650489	Sole plate ...	2			
204	307214015	Nut M14 x 2.0 ...	4			
205	308140045	Spring washer 14mm dia. ...	4			
206	301214355	Bolt M14 x 2.0 x 35mm long	2			
207	650785	Handle ...	2			
208	650398	Adjusting stop ...	2			
209	650392	Skid adjusting bolt ...	2			
210	308160045	Spring washer 16mm dia. ...	2			
211	650397	Adjusting bar ...	2			
212	301214555	Bolt M14 x 2.0 x 55mm long	2			
213	650491	Skid L.H. ...	1			
	650494	Skid R.H. ...	1			
214 - 219 not allocated						
DEPTH CONTROL WHEEL ASSEMBLY L.H. AND R.H.						
220	330095	Special nut ...	2			
221	650769	Tab washer ...	2			
222	307214010	Nut M14 x 2.0 ...	8			
223	308140040	Spring washer 14mm dia. ...	8			
224	301414350	Setscrew M14 x 2.0 x 35mm long	8			
225	756465	Wheel ...	2			
	650202	Wheel hub assembly ...	2			
comprising:—						
		Hub cap ...	2			
226	650203	Special nut FAG KM5 ...	2			
227	252538071	Tab washer FAG MB5 ...	2			
228	252542011	Bearing 47mm OD x 251 ID x 15W	2			
229	252547152	ISO No 32005X ...	2			
230	202030020	Grease nipple $\frac{1}{8}$ " BSP straight	2			
231	650205	Wheel hub ...	2			
232	253562182	Bearing 62mm OD x 35 ID x 18W	2			
233	266242071	ISO No 32007X ...	2			
234	650208	Oilseal 62mm OD x 42 ID x 7W	2			
235	307212010	Axle ...	2			
236	308120040	Nut M12 x 1.75 ...	4			
237	301212550	Spring washer 12mm dia. ...	4			
238	650773	Bolt M12 x 1.75 x 55mm long	4			
239	650840	Backing plate ...	2			
240	307216015	Wheel scraper arm ...	2			
241	308160045	Nut M16 x 2.0 ...	4			
242	301216555	Spring washer 16mm dia. ...	4			
243	650213	Bolt M16 x 2.0 x 55mm long	6			
		Top bracket LH ...	1			
		Top bracket RH ...	1			
244	650189	Bracket plate LH ...	1			
		Bracket plate RH ...	1			
245	650190	Anchor plate RH ...	1			
	650193					
DEPTH CONTROL WHEEL ASSEMBLY L.H. AND R.H. OPTIONAL 80" MODEL ONLY						
246	307216045	Locknut M16 x 2.0 ...	2			
	650845	Depth control screw assembly comprising:—	2			
247	307210045	Locknut M10 x 1.5 ...	2			
248	301210605	Bolt M10 x 1.5 x 60mm long	2			
249	650184	Handle ...	2			
250	208012655	Tension pin 6mm dia. x 35mm long	4			
251	650183	Handle block ...	2			
252	650188	Thrust washer ...	4			
253	650843	Outer tube ...	2			
254	60495	Clip ring ...	2			
255	650187	Bush ...	2			
256	650173	Screw ...	2			
257	650841	Inner tube ...	2			
258	307214010	Nut M14 x 2.0 ...	4			
259	308140040	Spring Washer 14mm dia. ...	4			
260	301214550	Bolt M14 x 2.0 x 55mm long	4			
261	650212	Clevis bracket LH ...	1			
	650194	Clevis bracket RH ...	1			
262	307212015	Nut M12 x 1.75 ...	8			
263	308120045	Spring washer 12mm dia. ...	8			
264	301212355	Bolt M12 x 1.75 x 35mm long	8			
265	650788	Pivot clevis ...	2			
266	208010930	Split cotter pin 3.2mm dia. x 40mm long	4			
267	308240010	Flat washer 24mm dia. ...	4			
268	650868	Pivot clevis pin ...	2			
269	307216015	Nut M16 x 2.0 ...	4			
270	308160045	Spring washer 16mm dia. ...	4			
271	301416355	Setscrew M16 x 2.0 x 35mm long	4			
272	650864	Guide plate ...	2			
273	650863	Wheel arm ...	2			
274 — 279 not allocated						
				767	4.77	11

Howard HB 80, HB 100 – Parts List

CRUMBLE ROLLER

767	4.77	12
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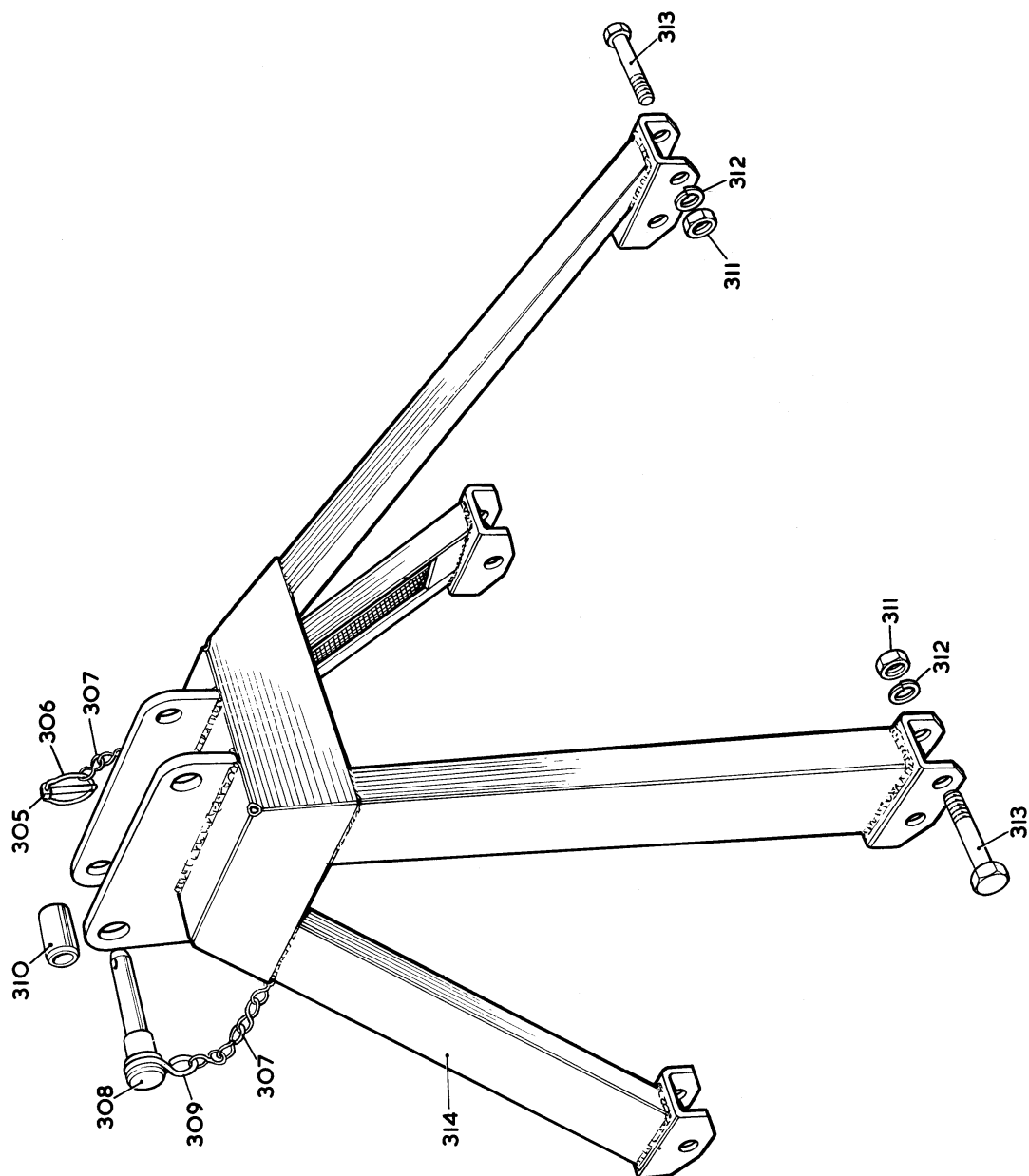
Illus No.	Part Number	Description	No. off	Bulletin	Bin No.	Illus No.	Part Number	Description	No. off	Bulletin	Bin No.
CRUMBLE ROLLER											
280	307212010	Nut M12 x 1.75 ...	4								
281	308120040	Spring washer 12mm dia. ...	4								
282	301212650	Bolt M12 x 1.75 x 65mm long	4								
283	650769	Tab washer ...	2								
284	330321	Roller arm bolt ...	2								
285	301416350	Setscrew M16 x 2.0 x 35mm long	2								
286	308160040	Spring washer 16mm dia. ...	2								
287	330322	Washer ...	2								
	330323	Roller arm assembly LH	1								
	330324	Roller arm assembly RH	1								
		comprising:-									
288	307212010	Nut M12 x 1.75 ...	4								
289	308120040	Spring washer 12mm dia. ...	4								
290	301212550	Bolt M12 x 1.75 x 55mm long	4								
291	254014492	Flange bearing RHP TSFT40	2								
292	330338	Roller arm ...	2								
	330305	Crumble roller assembly - 80" model	1								
	330425	Crumble roller assembly - 100" model	1								
		comprising:-									
293	307212010	Nut M12 x 1.75 ...	8								
294	308120040	Spring washer 12mm dia. ...	8								
295	301412350	Setscrew M12 x 1.75 x 35mm long	8								
296	330320	Crumroll axle ...	2								
297	208010990	Splitpin 4mm dia. x 40mm long	12								
298	330313	Roller - 80" model	6								
	330416	Roller - 100" model	6								
299	330309	Crumroll - 80" model	1								
	330413	Crumroll - 100" model	1								
300 - 304 not allocated											
									767	4.77	13

Howard HB 80, HB 100 – Parts List

TOPMAST ASSEMBLY

JACK ASSEMBLY

767		4.77	14
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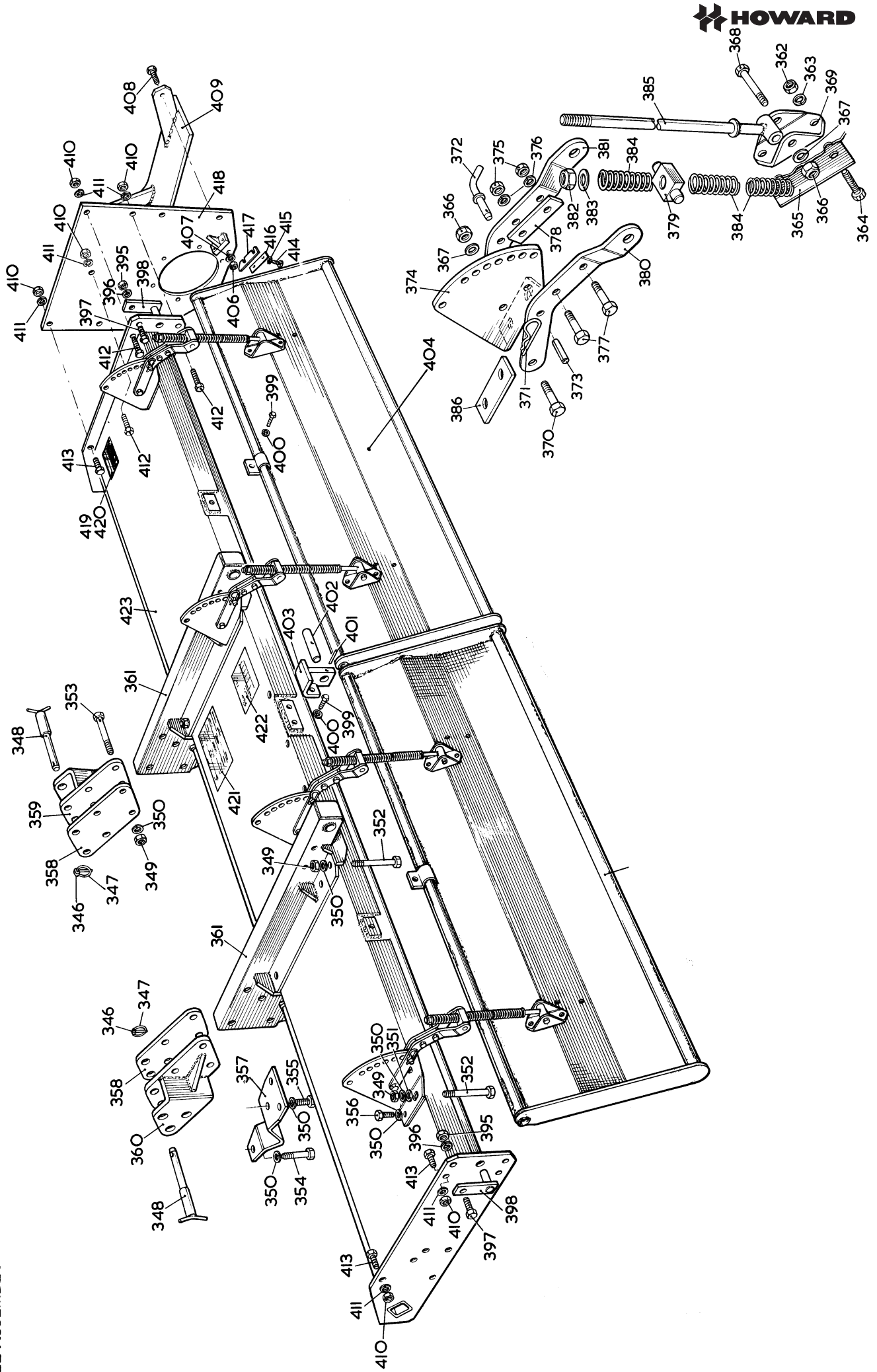
Description		Quantity	Unit
JACK ASSEMBLY			
Nut M12 x 1.75	...	...	...
Spring washer 12mm dia.	...	...	...
Bolt M12 x 1.75 x 70mm long	...	...	...
Clamp plate	...	...	...
Clip pin	...	...	...
Clip ring	...	...	...
Pin assembly comprising:—	...	...	...
Pin	...	...	...
Tension pin 8mm dia. x 80mm long	...	...	...
Jack support	...	...	...
Jack	...	...	...
Plastic insert 2" x 2"	...	...	...

<i>Bin No.</i>	
<i>Bulletin</i>	

Howard HB 80, HB 100 – Parts List

HULL ASSEMBLY

767	4.77	16
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Illus No.	Part Number	Description	No. off	Bulletin	Bin No.
HULL ASSEMBLY					
346	50934	Clip pin	2		
347	60495	Clip ring	2		
348	650781	Stepped mounting pin	2		
349	307216045	Self locking nut M16 x 2.0	16		
350	308160045	Spring washer 16mm dia.	24		
351	308160010	Flat washer 16mm dia.	4		
352	301616120	Bolt M16 x 2.0 x 120mm long	10		
353	301616115	Bolt M16 x 2.0 x 110mm long	6		
354	301216700	Bolt M16 x 2.0 x 70mm long	2		
355	301416450	Setscrew M16 x 2.0 x 45mm long	2		
356	301416350	Setscrew M16 x 2.0 x 35mm long	4		
357	650754	Bottom clamp plate	4		
358	650779	Mounting plate	2		
359	650775	Mounting bracket 'A'	1		
360	650776	Mounting bracket 'B'	1		
361	650735	Mounting arm	2		
362	307212040	Self locking nut M12 x 1.75	8		
363	308120040	Spring washer 12mm dia.	8		
364	301412350	Setscrew M12 x 1.75 x 35mm long	8		
365	650784	Backing plate	4		
		Adjustment assembly LH	2		
	330233	Adjustment assembly RH	2		
	330232	comprising:—	2		
		Nut M12 x 1.75 self locking	8		
366	307212045	Flat washer 12mm dia.	8		
367	308120015	Bolt M12 x 1.75 x 75mm long	4		
368	301212755	Support bracket	4		
369	650125	Bolt M12 x 1.75 x 40mm long	4		
370	301212405	Clip pin	4		
371	330237	Pin	4		
372	650113	Tension pin 13mm dia. x 30mm long	4		
373	208012865	Shield selector LH	2		
374	650127	Shield selector RH	2		
	650112	Adjusting arm sub assembly	4		
	650115	comprising:—	4		
		Nut M12 x 1.75	8		
375	307212015	Spring washer 12mm dia.	8		
376	308120045	Bolt M12 x 1.75 x 40mm long	8		
377	301212405	Spacer	4		
378	650119	Trunnion	4		
379	650118	Adjusting arm LH	4		
380	650116	Adjusting arm RH	4		
381	650117	Nut M16 x 2.0 self locking	4		
382	307216035	Flat washer 16mm dia.	4		
383	308160015	Spring - short	12		
384	650124	Spring bar	4		
385	650120	Spacer - outer shield selector	2		
386	330369	Nut M16 x 2.0	2		
387	394 not allocated.	Spring washer 16mm dia.	2		
395	307216010	Setscrew M16 x 2.0 x 35mm long	2		
396	308160040		2		
397	301416350		2		

767	4.77	17
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Howard HB 80, HB 100 - Parts List