



ROTAVATOR HA Series

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

CONTENTS

Crumble roller HA80 and HA100	22-23
Depth control wheel and skids	16-17
Depth control wheel — front mounted	20-21
Frames	12-13
Front toolbar	18-19
Numerical parts list	24-25
Parts bulletin record.	25
Quick hitch	20-21
Rotor assemblies	12-13
Rotor bearings	10-11
Safety clutch	4-5
Selectatilh* gearbox	6-7
Side drive.	10-11
Standard gearbox	8-9
Topmast	18-19
Trailing boards and supports	14-15
Transfers	23
Universal joint assemblies HA30—HA70	2-3
Universal joint assemblies HA80 and HA100.	4-5

When ordering spare parts, it is essential to state the serial number of the machine for which the part is required, the part number (NOT the illustration number) and the description. We cannot guarantee that correct parts will be supplied unless the correct machine number and part number is given. In the following parts list, all directions "left" or "right" are as viewed from the rear of the machine.

NOTE FOR DEALERS

The Bulletin column provides space to record the reference number of any Parts Bulletin issued concerning that part.

The Bin number column is for you to record the location of that item in the stores.

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

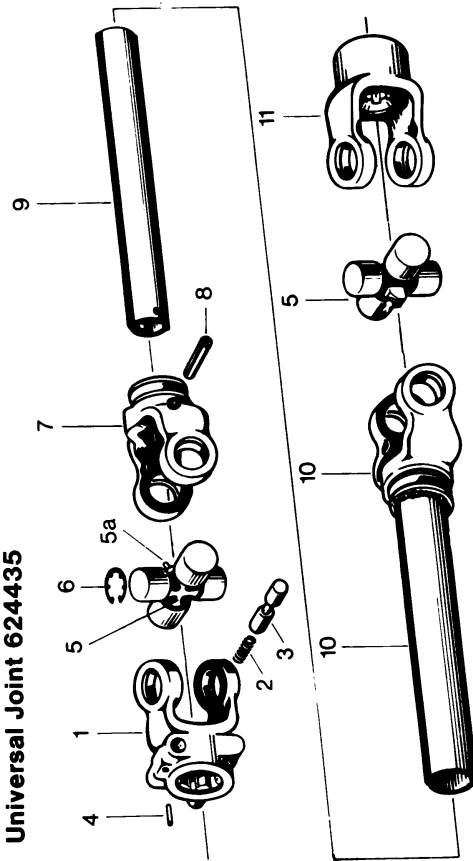
734	8.76	1
-----	------	---

Howard HA Series Parts List

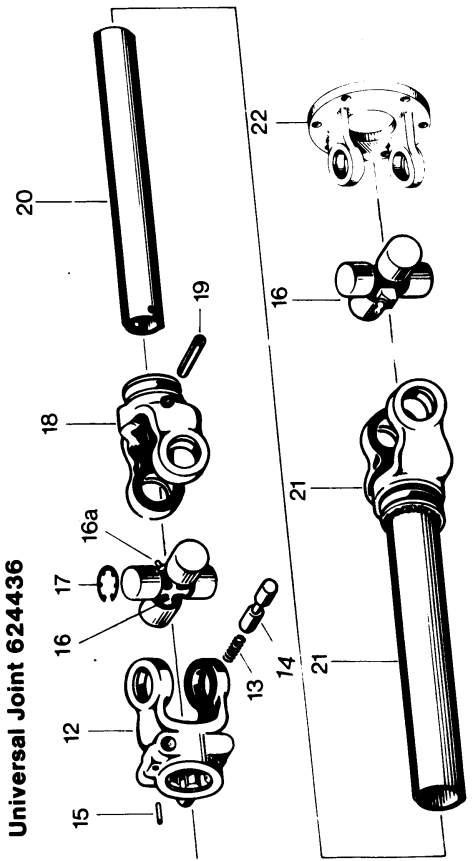
Universal joint assemblies for HA30 — HA70

734	8.76	2
-----	------	---

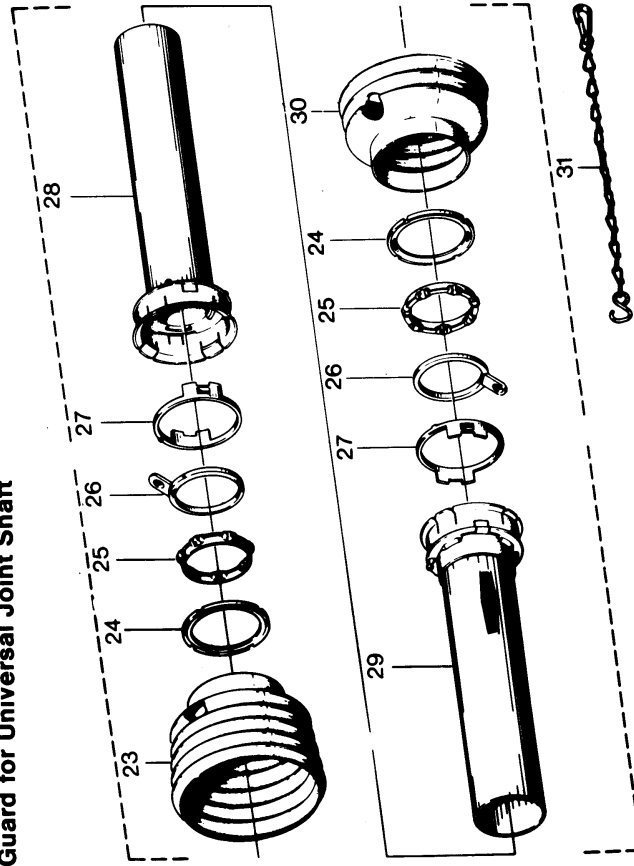
Universal Joint 624435



Universal Joint 624436



Guard for Universal Joint Shaft



UNIVERSAL JOINT ASSEMBLIES					
Illus. No.	Part Number	Description	No. Off	Bulletin	Bin No.
624435					
Universal Joint Assembly					
without clutch plate for HA30 — HA70					
comprising:—					
1	204013710	Tractor End Yoke	1		
2	204012840	Spring	2		
3	204012850	Sliding Pin	2		
4	208012940	Tension Pin	2		
5	204012990	Spider Assembly	2		
5A	202030830	Grease Nipple A8 DIN 71412	2		
6	204046010	Circlip	8		
7	204012670	Yoke	1		
8	208089370	Tension Pin	1		
9	204013680	Inner Shaft	1		
10	204013690	Outer Shaft with Yoke	1		
11	624425	Attachment Yoke	1		
Inner Guard Assembly					
23	204014240	comprising:	1		
24	204014250	Protecting Guard	1		
25	204046020	Guide Ring	1		
26	204046030	Ball Support	1		
27	204046040	Guard Ring	1		
28	204046050	Sliding Pin	1		
Inner Guard Length 370mm					
Outer Guard Assembly					
24	204014270	comprising:	1		
25	204046020	Guide Ring	1		
26	204046030	Ball Support	1		
27	204046040	Guard Ring	1		
29	204014280	Sliding Pin	1		
30	204014250	Yoke Guard	1		
31	204012790	Chain	1		
624436					
Universal Joint Assembly					
with clutch plate for HA30 — HA70					
comprising:—					
12	204013710	Tractor End Yoke	1		
13	204012840	Spring	2		
14	204012850	Sliding Pin	2		
15	204012940	Tension Pin	2		
16	204012990	Spider	2		
16A	202030830	Grease Nipple A8 DIN 71412	2		
17	204046010	Circlip	8		
18	204013670	Yoke	1		
19	208089370	Tension Pin	1		
20	204013680	Inner Shaft	1		
21	204013690	Outer Shaft with Yoke	1		
22	624424	Clutch Plate	1		

UNIVERSAL JOINT ASSEMBLIES					
Illus. No.	Part Number	Description	No. Off	Bulletin	Bin No.
624435					
Universal Joint Assembly					
without clutch plate for HA30 — HA70					
comprising:—					
23	204014250	Protecting Guard	1		
24	204046020	Guide Ring	1		
25	204046030	Ball Support	1		
26	204046040	Guard Ring	1		
27	204046050	Sliding Ring	1		
29	204014280	Outer Guard Length 370mm	1		
30	204014290	Protecting Guard	1		
31	204012790	Chain	1		
624436					
Universal Joint Assembly					
with clutch plate for HA30 — HA70					
comprising:—					
24	204046020	Guide Ring	1		
25	204046030	Ball Support	1		
26	204046040	Guard Ring	1		
27	204046050	Sliding Pin	1		
29	204014280	Outer Guard Length 370mm	1		
30	204014250	Yoke Guard	1		
31	204012790	Chain	1		
624436					
Universal Joint Assembly					
with clutch plate for HA30 — HA70					
comprising:—					
12	204013710	Tractor End Yoke	1		
13	204012840	Spring	2		
14	204012850	Sliding Pin	2		
15	204012940	Tension Pin	2		
16	204012990	Spider	2		
16A	202030830	Grease Nipple A8 DIN 71412	2		
17	204046010	Circlip	8		
18	204013670	Yoke	1		
19	208089370	Tension Pin	1		
20	204013680	Inner Shaft	1		
21	204013690	Outer Shaft with Yoke	1		
22	624424	Clutch Plate	1		

NOTE:
When ordering an Inner or Outer Guard Assembly please specify the length of the Guard Tube and the spare part number of the Protecting Guard.

NOTE:
When ordering an Inner or Outer Guard Assembly please specify the length of the Guard Tube and the spare part number of the Protecting Guard.

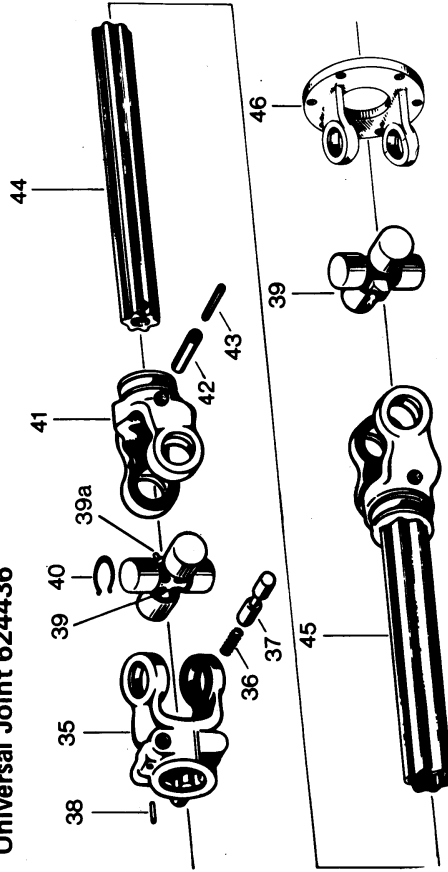
734	8.76	3
-----	------	---

Howard HA Series Parts List

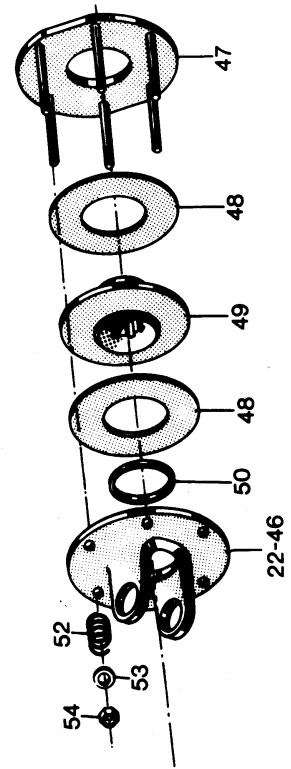
Universal joint assemblies for HA80 and HA100
Safety clutch

734	8.76	4
-----	------	---

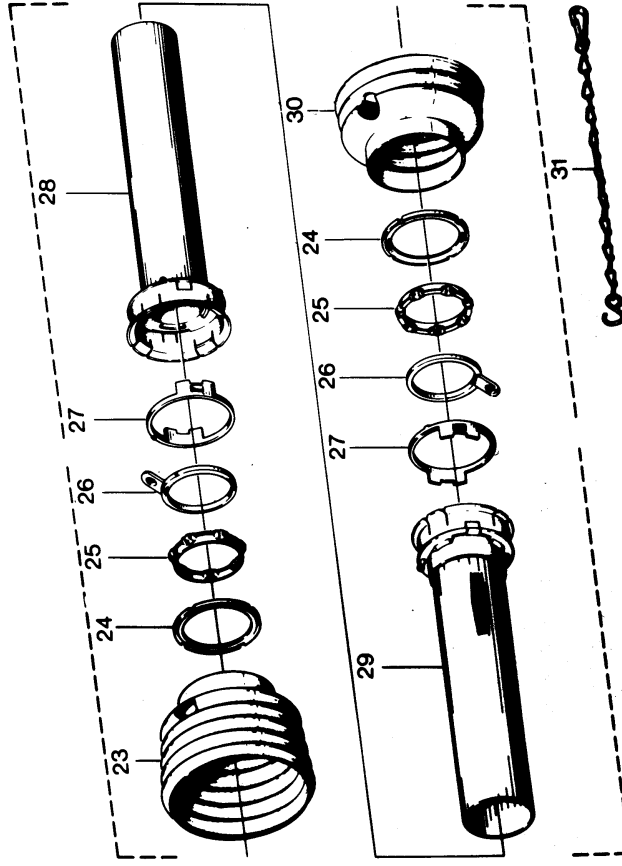
Universal Joint 624436



Safety Clutch



Guard for Universal Joint Shaft

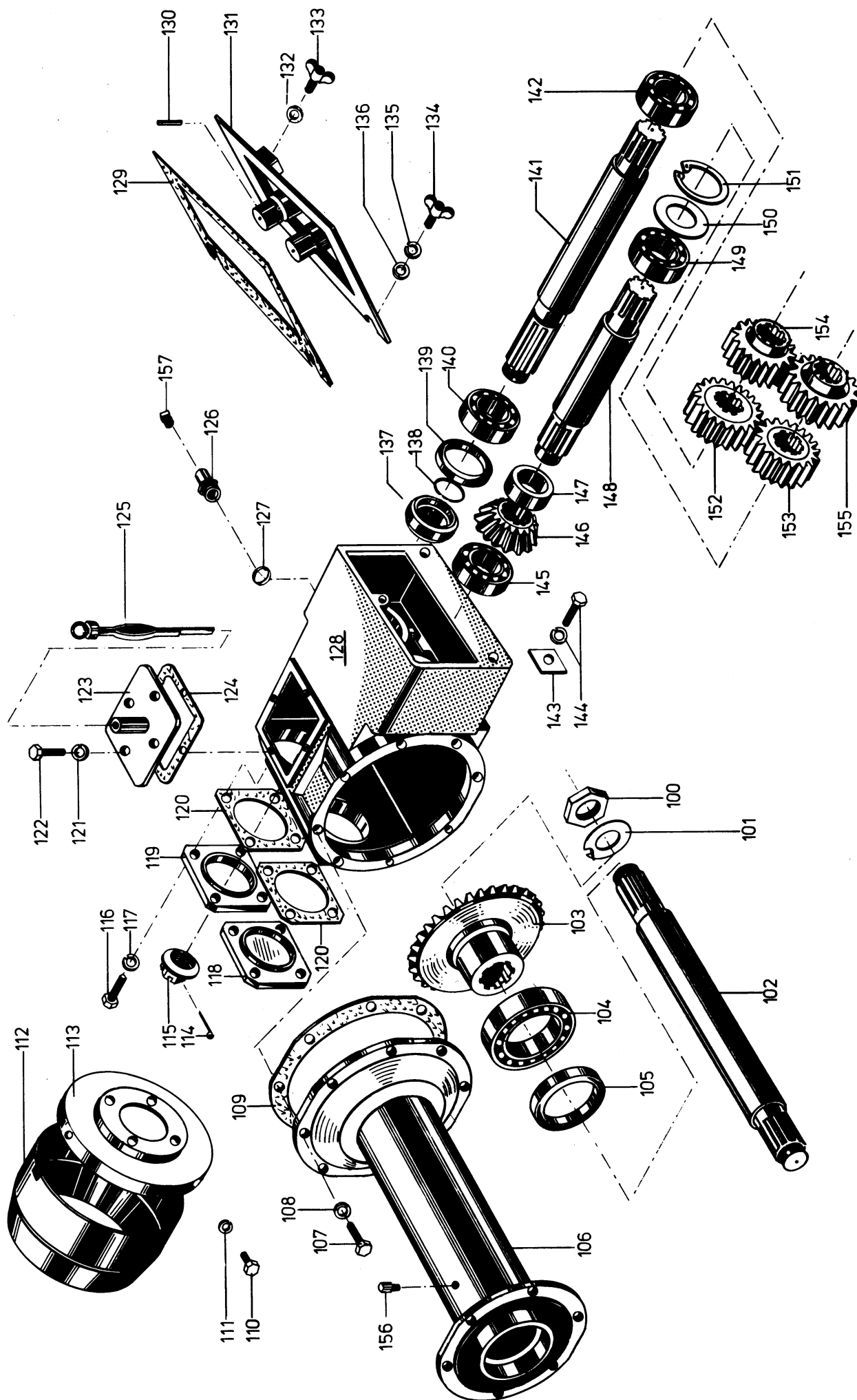


<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. Off</i>	<i>Bulletin</i>	<i>Bin No.</i>	<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. Off</i>	<i>Bulletin</i>	<i>Bin No.</i>
	624437	Universal Joint Assembly with clutch plate for HA80 and HA100 comprising:	1								
35	204013730	Tractor End Yoke	1								
36	204012840	Spring	2								
37	204012850	Sliding Pin	2								
38	204012940	Tension Pin	2								
39	204046060	Spider	2								
39A	202030770	Grease Nipple BA8 DIN 71412	2								
40	204046070	Circlip	8								
41	204013740	Yoke	1								
42	208089350	Tension Pin	1								
43	208089270	Tension Pin	1								
44	204013750	Inner Splined Shaft	1								
45	204012760	Outer Splined Shaft with Yoke	1								
46	624423	Clutch Plate	1								
	204014240	Inner Guard assembly comprising:	1								
23	204014300	Protecting Guard	1								
24	204046020	Guide Ring	1								
25	204046030	Ball Support	1								
26	204046040	Guard Ring	1								
27	204046050	Sliding Ring	1								
28	204014330	Inner Guard Length 335mm	1								
	204014270	Outer Guard Assembly comprising:									
24	204046020	Guide Ring	1								
25	204046030	Ball Support	1								
26	204046040	Guard Ring	1								
27	204046050	Sliding Ring	1								
29	204014310	Outer Guard Length 335mm	1								
30	204014320	Protecting Guard	1								
31	204012790	Chain	1								
NOTE:											
When ordering an Inner or Outer Guard Assembly please specify the length of the Guard Tube and the spare part number of the Protecting Guard.											
	624450	SAFETY CLUTCH Safety Clutch Assembly for Universal Joints 624436 and 624437 comprising:	1								
47	624418	Pressure Plate	1								
48	624421	Friction Disc	2								
49	624420	Flange Housing	1								
50	624422	Sleeve	1								
52	602	Spring	6								
53	308130010	Flat Washer A13 DIN 125	6								
54	307112010	Nut M 12 x 1.25 Din 934	6								
									734	8.76	5

Howard HA Series Parts List

Selectatilh gearbox

734	8.76	6
-----	------	---



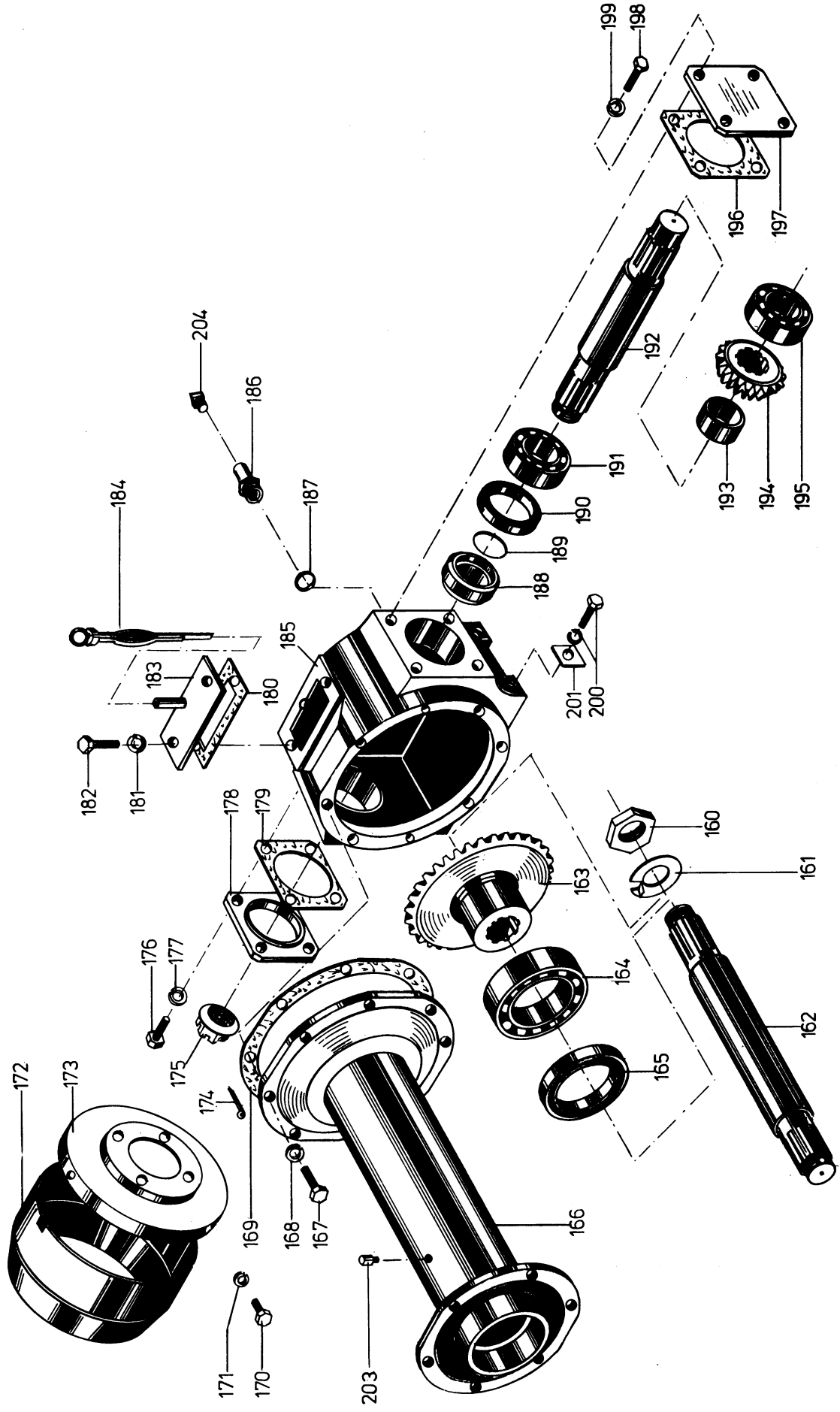
Illustr. Part Number		Description		No. Off		Bulletin		Bin No.	
SELECTATILTH GEARBOX									
Jackshaft Housing Assembly for machines with Selectatiltth gearbox comprising illustration numbers 100-109 and 156; 216-218.									
624020	100	Jackshaft Housing Assembly for HA30 and HA70G and for HA40 only up to serial No. 801 C 5801	...	...	...	...	...	...	...
625247	101	Jackshaft Housing Assembly for HA40 from serial No. 801 C 5802	...	...	...	...	...	...	...
624022	102	Jackshaft Housing Assembly for HA50	...	...	...	...	...	...	...
624023	103	Jackshaft Housing Assembly for HA60	...	...	...	...	...	...	...
624024	104	Jackshaft Housing Assembly for HA70	...	...	...	...	...	...	...
624025	105	Jackshaft Housing Assembly for HA80	...	...	...	...	...	...	...
624026	106	Jackshaft Housing Assembly for HA100	...	...	...	...	...	...	...
307136020	107	Special Nut M36 x 1.5 DIN 936	...	...	...	...	...	...	...
308370050	108	Tab Washer 37 DIN 432	...	...	...	...	...	...	...
624044	109	Jackshaft for HA30 and HA70G and for HA40 only up to serial No. 801 C 5801	...	...	...	...	...	...	...
625250	110	Jackshaft for HA40 from serial No. 801 C 5802	...	...	...	...	...	...	...
624046	111	Jackshaft for HA50	...	...	...	...	...	...	...
624047	112	Jackshaft for HA60	...	...	...	...	...	...	...
624048	113	Jackshaft for HA70	...	...	...	...	...	...	...
624049	114	Jackshaft for HA80	...	...	...	...	...	...	...
624050	115	Jackshaft for HA100	...	...	...	...	...	...	...
624051	116	Crownwheel	...	...	...	...	...	...	...
256011246	117	Bearing	...	...	...	...	...	...	...
268060082	118	Oilseal	...	...	...	...	...	...	...
624027	119	Jackshaft Housing HA30 and HA70G and for HA40 only up to serial No. 801 C 5801	...	...	...	...	...	...	...
625248	120	Jackshaft Housing for HA40 from serial no. 801 C 5802	...	...	...	...	...	...	...
624029	121	Jackshaft Housing for HA50	...	...	...	...	...	...	...
624030	122	Jackshaft Housing for HA60	...	...	...	...	...	...	...
624031	123	Jackshaft Housing for HA70	...	...	...	...	...	...	...
624032	124	Jackshaft Housing for HA80	...	...	...	...	...	...	...
624033	125	Jackshaft Housing for HA100	...	...	...	...	...	...	...
301410250	126	Setscrew M 10 x 25 DIN 933	...	...	...	...	...	...	...
308100040	127	Spring Washer B 10 DIN 127	...	...	...	...	...	...	...
624052	128	Sideplate Gasket	...	...	...	...	...	...	...
301408120	129	Setscrew M8 x 12 DIN 933	...	...	...	...	...	...	...
308080040	130	Spring Washer B 8 DIN 127	...	...	...	...	...	...	...
624340	131	Guard	...	...	...	...	...	...	...
624338	132	Cover	...	...	...	...	...	...	...
Selectatiltth Gearbox Assembly comprising illustration numbers 114-155 and 157.									
624064	133	Split Pin 5 x 50 DIN 94	...	...	...	...	...	...	...
208010860	134	Special Slotted Nut	...	...	...	...	...	...	...
624426	135	Special Bolt M10 x 25 DIN 933	...	...	...	...	...	...	...
301410250	136	Spring Washer B 10 DIN 127	...	...	...	...	...	...	...
308100040	137	Pinion Shaft Front Cover	...	...	...	...	...	...	...
624070	138	Pinion Shaft	...	...	...	...	...	...	...
Drive Shaft Front Cover									
624071	139	Gasket .5mm	...	...	...	...	...	...	...
624072	140	Gasket 1mm	...	...	...	...	...	...	...
308080040	141	Spring Washer B 8 DIN 127	...	...	...	...	...	...	...
301408200	142	Special Bolt M8 x 20 DIN 933	...	...	...	...	...	...	...
624081	143	Top Cover Plate	...	...	...	...	...	...	...
624084	144	Gasket	...	...	...	...	...	...	...
624085	145	Oil Dipstick	...	...	...	...	...	...	...
203031360	146	Plug CM26 x 1.5 DIN 7604	...	...	...	...	...	...	...
203038340	147	Gasket A26 x 31 DIN 7603	...	...	...	...	...	...	...
624058	148	Gearbox Housing	...	...	...	...	...	...	...
624079	149	Gasket	...	...	...	...	...	...	...
208012920	150	Tension Pin 7 x 40 DIN 7346	...	...	...	...	...	...	...
624074	151	Gearbox Cover	...	...	...	...	...	...	...
208012880	152	Tension Pin 2.5 x 16 DIN 7346	...	...	...	...	...	...	...
624080	153	Special Wing Screw	...	...	...	...	...	...	...
317410250	154	Wing Screw M10 x 25 DIN 316	...	...	...	...	...	...	...
308100040	155	Spring Washer B 10 DIN 127	...	...	...	...	...	...	...
10010010	156	Washer A 10.5 DIN 125	...	...	...	...	...	...	...
624073	157	Abutment Ring	...	...	...	...	...	...	...
202070470	158	'O' Ring 38-2	...	...	...	...	...	...	...
267250083	159	Oilseal	...	...	...	...	...	...	...
254080251	160	Bearing	...	...	...	...	...	...	...
624069	161	Drive Shaft	...	...	...	...	...	...	...
254080251	162	Bearing	...	...	...	...	...	...	...
624180	163	Tab Washer DIN 1541	...	...	...	...	...	...	...
301414350	164	Screw M 14 x 35 DIN 933	...	...	...	...	...	...	...
308140040	165	with Spring Washer B 14 DIN 127	...	...	...	...	...	...	...
253580231	166	Bearing	...	...	...	...	...	...	...
624066	167	Pinion	...	...	...	...	...	...	...
624067	168	Distance Ring	...	...	...	...	...	...	...
624068	169	Pinion Shaft	...	...	...	...	...	...	...
254080251	170	Bearing	...	...	...	...	...	...	...
203038330	171	Shim .5mm	...	...	...	...	...	...	...
203038710	172	Shim .1mm	...	...	...	...	...	...	...
203038870	173	Shim .2mm	...	...	...	...	...	...	...
208001320	174	Circlip 80 x 2.5 DIN 472	...	...	...	...	...	...	...
624062	175	Pick-Off Gear 18 Teeth	...	...	...	...	...	...	...
624061	176	Pick-Off Gear 17 Teeth	...	...	...	...	...	...	...
624060	177	Pick-Off Gear 16 Teeth	...	...	...	...	...	...	...
624063	178	Pick-Off Gear 19 Teeth	...	...	...	...	...	...	...
624444	179	Pick-Off Gear 12 Teeth	...	...	...	...	...	...	...
624445	180	Pick-Off Gear 23 Teeth	...	...	...	...	...	...	...
624446	181	Pick-Off Gear 13 Teeth	...	...	...	...	...	...	...
624447	182	Pick-Off Gear 22 Teeth	...	...	...	...	...	...	...
624448	183	Pick-Off Gear 14 Teeth	...	...	...	...	...	...	...
624449	184	Pick-Off Gear 21 Teeth	...	...	...	...	...	...	...
203032010	185	Pressure Relief Valve R ₁	...	...	...	...	...	...	...
203031040	186	Plug R 1/4"	...	...	...	...	...	...	...
								734	7

Howard HA Series Parts List

Howard HA Series Parts List

Standard gearbox

734	8.76	8
-----	------	---

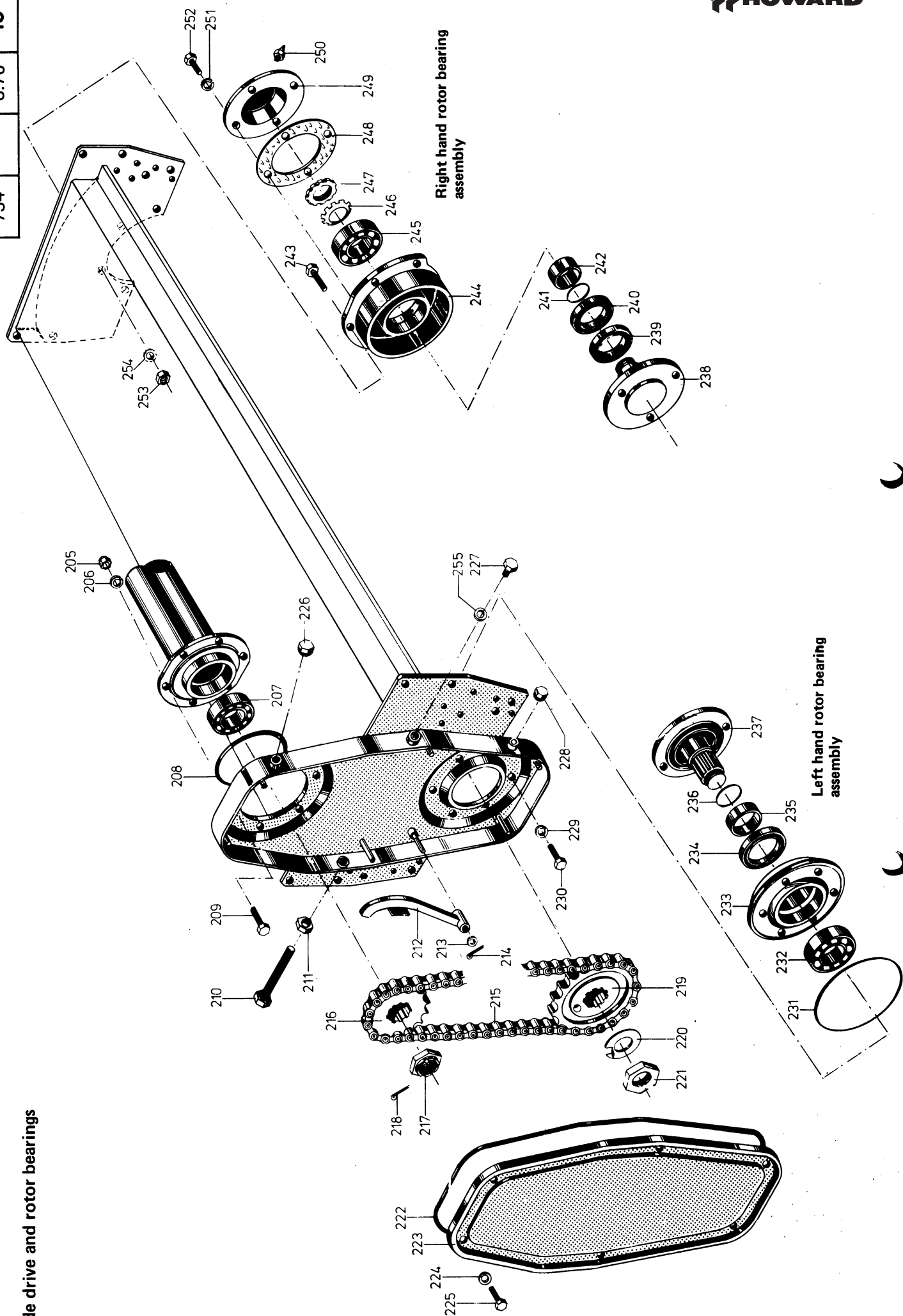


<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. Off</i>	<i>Bulletin</i>	<i>Bin No.</i>
STANDARD GEARBOX					
		Jackshaft Housing Assembly for machines with standard gearbox comprising illustration numbers 160 — 169 and 203, 216 — 218.			
624020		Jackshaft Housing Assembly for HA30 and HA70G and for HA40 only up to serial no. 801 C 5801.	1		
625247		Jackshaft Housing Assembly for HA40 from serial no. 801 C 5802	1		
624022		Jackshaft Housing Assembly for HA50	1		
624023		Jackshaft Housing Assembly for HA60	1		
624024		Jackshaft Housing Assembly for HA70	1		
624025		Jackshaft Housing Assembly for HA80	1		
624026		Jackshaft Housing Assembly for HA100	1		
160	307136020	Special Nut M 36 x 1.5 DIN 936	1		
161	308370050	Tab Washer DIN 432	1		
162	624044	Jackshaft for HA30 and HA70G and for HA40 only up to serial no. 801 C 5801	1		
625250		Jackshaft for HA50 from serial no. 801 C 5802	1		
624046		Jackshaft for HA60	1		
624047		Jackshaft for HA70	1		
624048		Jackshaft for HA80	1		
624049		Jackshaft for HA100	1		
624050		Crownwheel	1		
163	624051	Bearing	1		
164	256011246	Oilseal	1		
165	268060082	Jackshaft Housing for HA30 and for HA40 only up to serial no. 801 C 5801	1		
166	624027	Jackshaft Housing for HA40 from serial no. 801 C 5802	1		
625248		801 C 5802	1		
624029		Jackshaft Housing for HA50	1		
624030		Jackshaft Housing for HA60	1		
624031		Jackshaft Housing for HA70	1		
624032		Jackshaft Housing for HA80	1		
624033		Jackshaft Housing for HA100	1		
167	301410250	Setscrew M 10 x 25 DIN 933	8		
168	308100040	Spring Washer B10 DIN 127	8		
169	624052	Sideplate Gasket	1		
170	301408120	Setscrew M8 x 12 DIN 933	3		
171	308080040	Spring Washer B8 DIN 127	3		
172	624340	Guard	1		
173	624338	Cover	1		
624088		Standard Gearbox Assembly comprising illustration numbers 174—202 and 204.			
174	208010860	Split Pin 5 x 50 DIN 94	1		
175	624426	Special Slotted Nut	1		
176	301410250	Special Bolt M 10 x 25 DIN 933	4		
177	308100040	Spring Washer B10 DIN 127	4		
178	624071	Extension Shaft Cover (Front)	1		
179	624072	Gasket .5mm	as required min 1		
179	624360	Gasket 1mm	as required max 1		
Illustration numbers 174—202 and 204.					
180	624093	Gasket	1		
181	308080040	Spring Washer B8 DIN 127	2		
182	301408200	Special Bolt M 8 x 20 DIN 933	2		
183	624091	Top Cover Plate	1		
184	624085	Oil Dipstick	1		
185	624059	Gearbox Housing	1		
186	203031360	Plug CM26 x 1.5 DIN 7604	1		
187	203038340	Gasket A26 x 31 DIN 7603	1		
188	624073	Abutment Ring	1		
189	202070470	'O' Ring 38-2	1		
190	267250083	Oilseal	1		
191	254080251	Bearing	1		
192	624090	Extension Shaft	1		
193	624067	Distance Ring	1		
194	624066	Pinion	1		
195	253580231	Bearing	1		
196	624072	Gasket .5mm	as required min 1		
196	624360	Gasket 1mm	as required max 1		
197	624070	Extension Shaft Rear Cover	1		
198	301410250	Special Bolt M 10 x 25 DIN 933	4		
199	308100040	Spring Washer B 10 DIN 127	4		
200	301414350	Screw M 14 x 35 DIN 933	4		
201	308140040	with Spring Washer B 14 DIN 127	4		
201	624180	Tab Washer	4		
202	203038710	Shim .1mm	as required		
202	203038870	Shim .2mm	as required		
203	203032010	Pressure Relief Valve R $\frac{1}{8}$ "	1		
204	203031040	Plug R $\frac{1}{4}$ "	1		

Howard HA Series Parts List

Side drive and rotor bearings

734	8.76	10
-----	------	----

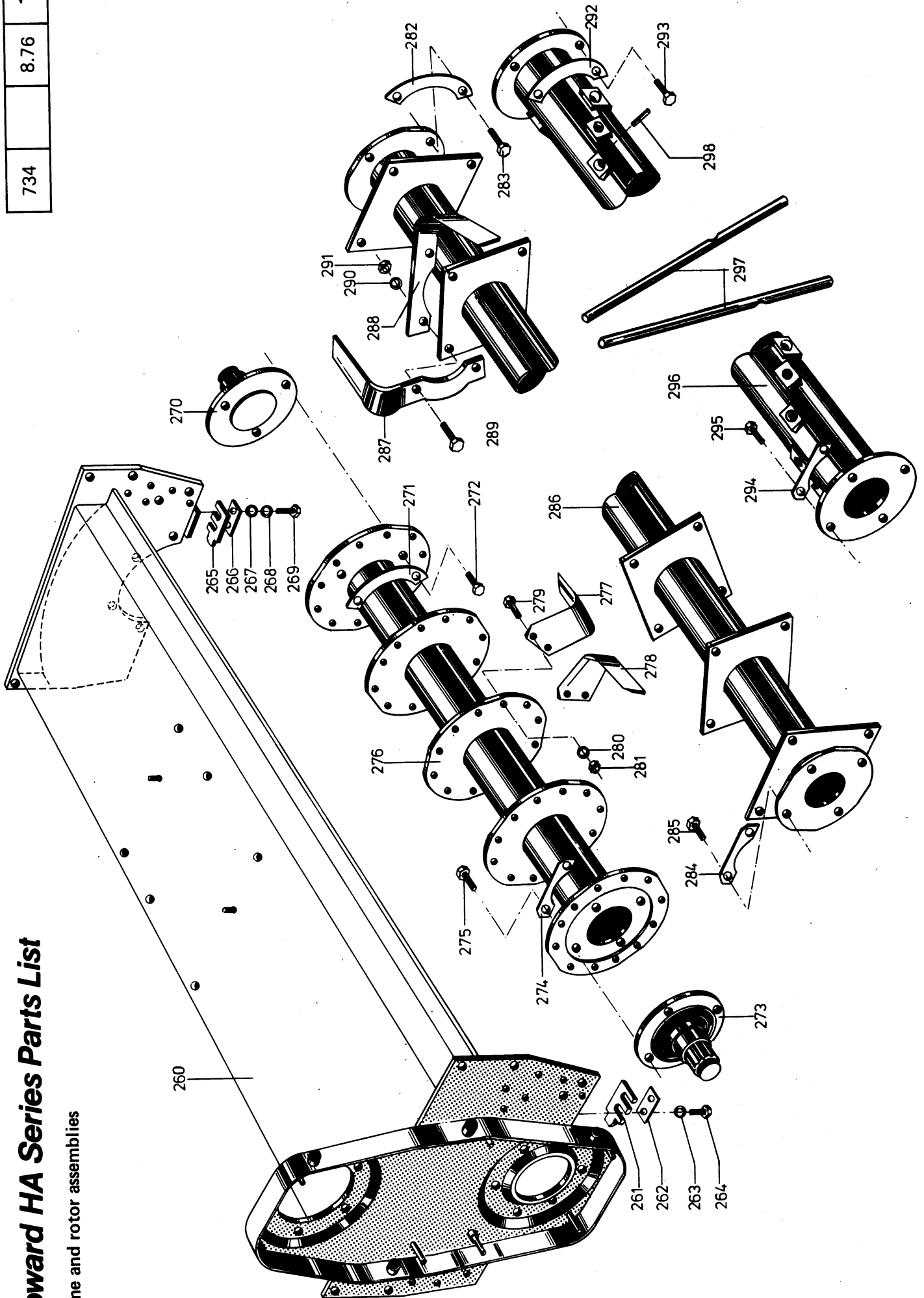


Illus. No.	Part Number	Description	No. Off	Bulletin	Bin No.
205	307210120	SIDE DRIVE			
206	308100040	Nut M 10 DIN 985	6		
207	308100040	Spring Washer B 10 DIN 127	6		
208	254585251	Ballbearing	1		
209	202025380	O' Ring 149-3	1		
210	301410250	Setcrew M 10 x 25 DIN 933	6		
211	301816120	Adjusting Screw M 16 x 120 DIN 933	1		
212	307216010	Locknut M 16 DIN 934	1		
213	624356	Chainskid	1		
214	308150010	Washer A 15 DIN 125	1		
215	208010970	Splitpin 4 x 25 DIN 94	1		
216	204002340	Chain	1		
217	624054	Jackshaft Sprocket 10 T for machines fitted with Standard Rotor	1		
218	624055	Jackshaft Sprocket 11 T for machines fitted with Cadet or Spike Rotors	1		
219	307136140	Special Nut M35 x 1.5 DIN 937	1		
220	208016170	Splitpin 6.3 x 63 DIN 94	1		
221	624015	Rotor Drive Sprocket 14 T for machines fitted with Standard Rotor	1		
222	624016	Rotor Drive Sprocket 13 T for machines fitted with Cadet or Spike Rotors	1		
223	308430050	Tab Washer 43 DIN 432	1		
224	307142180	Special Nut M42 x 1.5 DIN 936	1		
225	624362	*Gasket Up to machine serial	1		
226	624361	*Sidedrive Cover number 801 C 9183	1		
227	625875	*Gasket from machine serial	1		
228	625878	*Sidedrive Cover number 801 C 9184	1		
229	308080150	Special Washer	6		
230	301408160	Setcrew M8 x 16 DIN 933	6		
231	n.i.	Gear oil			
232	203031020	Oil Level Plug R $\frac{1}{2}$ "	1		
233	301416200	Setcrew M16 x 20 DIN 933	1		
234	203031010	Oil Level Plug R $\frac{1}{2}$ "	1		
*These items are fully interchangeable although it is advisable to fit the later seal with the later sidedrive cover.					
ROTOR BEARINGS					
L. H. Rotor Bearing Assembly					
comprising:					
229	308100040	Spring Washer B10 DIN 127	6		
230	301410200	Setcrew M 10 x 20 DIN 933	6		
231	202025360	O'Ring 179-3	1		
232	255512291	Ballbearing	1		
233	624012	Rotor Drive Shaft Housing	1		
234	268565162	Oilseal	1		
235	624013	Rotor Shaft Spacer	1		
236	202025370	O' Ring 55-2, 5	1		
237	624014	Rotor Drive Shaft	1		
R.H. Rotor Bearing Assembly					
comprising:					
238	624006	Stub Axle	1		
239	267250052	Oilseal	1		
240	267250083	Gasket	1		
241	202025350	O' Ring 35-2, 5	1		
242	624007	Rotor Shaft Spacer	1		
243	301410250	Setcrew M 10 x 25 DIN 933	4		
244	624002	Rotor Bearing Housing r.h. side	1		
245	253580211	Ballbearing	1		
246	253557011	Special Washer	1		
247	253552081	Special Nut	1		
248	624008	Gasket	1		
249	624009	End Cover	1		
250	202030760	Grease Nipple AM 6 DIN 71412	1		
251	308080040	Spring Washer B 8 DIN 127	4		
252	301408160	Setcrew M 8 x 16 DIN 933	4		
253	307210010	Nut M 10 DIN 934	4		
254	308110030	Special Washer 10,5 DIN 6797...	4		
255	202029220	Oilseal A 16 x 20 DIN 7603 Cu	1		
					734
					8.76
					11

Howard HA Series Parts List

Frame and rotor assemblies

734	8.76	12
-----	------	----

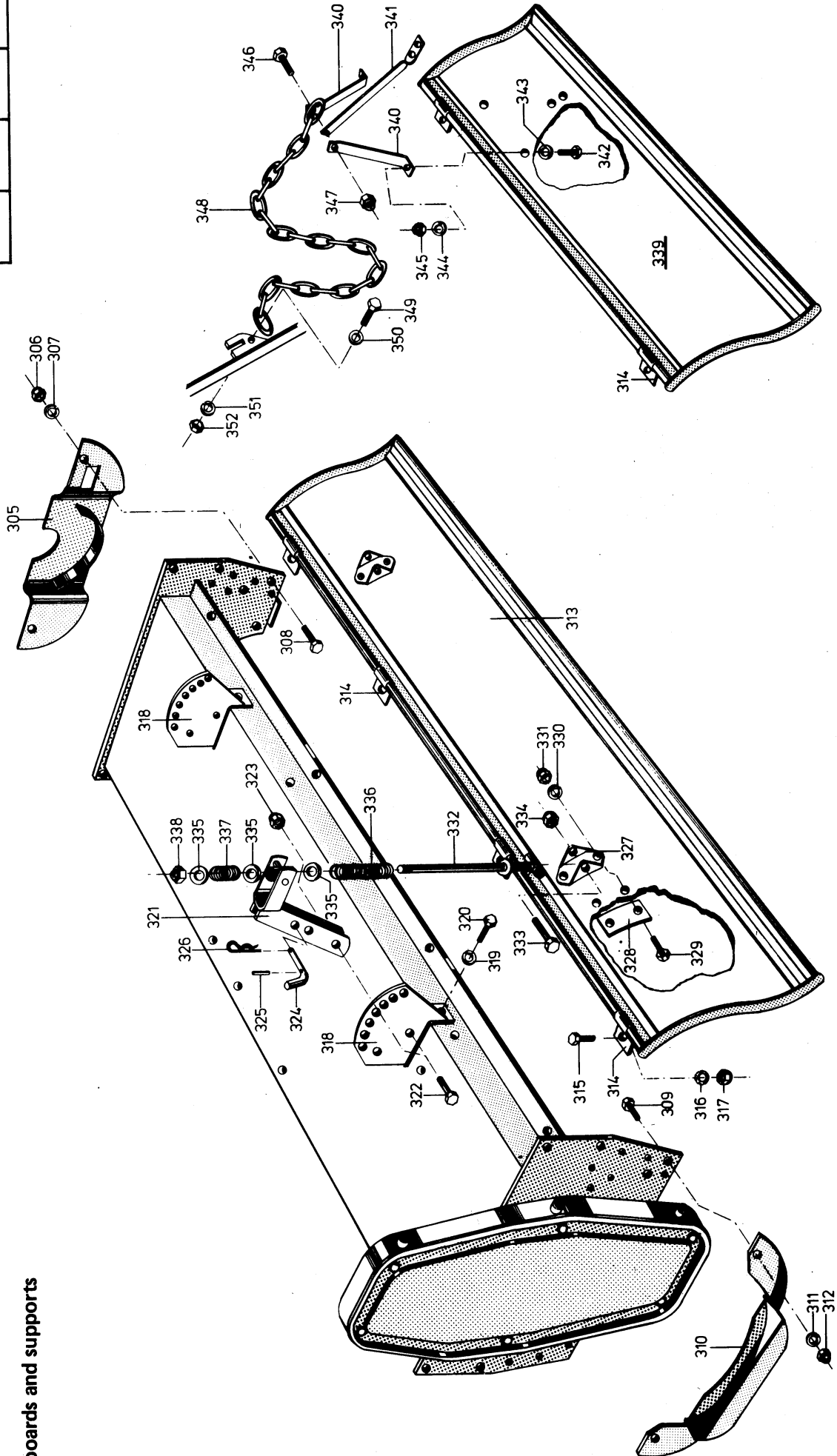


Howard		Howard	
Illus. No.	Part Number	Description	No. Off
260	624226	Frame for HA30 ...	1
	624227	Frame for HA40 up to serial No. 801 C 5801	1
	625251	Frame for HA40 from serial No. 801 C 5802	1
	624228	Frame for HA50 ...	1
	624229	Frame for HA60 ...	1
	624369	Frame for HA70G ...	1
	624230	Frame for HA70 ...	1
	624231	Frame for HA80 ...	1
	624232	Frame for HA100 ...	1
261	624283	Cutter Blade	1
262	624284	Backing Strip	1
263	308100040	Spring Washer B 10	1
264	301410250	DIN 127	2
		Setscrew M 10 x 25 for machines with Standard Rotor	2
265	624283	Cutter Blade	1
266	624284	Backing Strip	1
267	308110010	U-Washer A 10,5	1
		DIN 125	2
268	308100040	Spring Washer B 10	2
		DIN 127	2
269	301410250	Setscrew M 10 x 25	2
		DIN 933	2
270	624006	Stub Axle...	1
271	624204	Tab Washer	2
272	301316280	Setscrew M 16 x 1,5 x 28 DIN 961	3
273	624014	Rotor Drive Shaft	1
274	624203	Tab Washer	2
275	301316280	Setscrew M 16 x 1,5 x 28 DIN 961	4
ROTOR ASSEMBLIES			
Standard Rotor Assembly comprising illustration numbers 276-281			
276	625796	Standard Rotor Assembly for HA30	1
	625797	Standard Rotor Assembly for HA40	1
	625798	Standard Rotor Assembly for HA50	1
	625799	Standard Rotor Assembly for HA60	1
	625800	Standard Rotor Assembly for HA70	1
	625801	Standard Rotor Assembly for HA80	1
	624185	Standard Rotor for HA30	1
	624186	Standard Rotor for HA40	1
	624187	Standard Rotor for HA50	1
	624188	Standard Rotor for HA60	1
	624189	Standard Rotor for HA70	1
	624190	Standard Rotor for HA80	1
FRAMES			
		Frame for HA30 ...	1
		Frame for HA40 up to serial No. 801 C 5801	1
		Frame for HA40 from serial No. 801 C 5802	1
		Frame for HA50 ...	1
		Frame for HA60 ...	1
		Frame for HA70G ...	1
		Frame for HA70 ...	1
		Frame for HA80 ...	1
		Frame for HA100 ...	1
Standard Rotor Assembly comprising illustration numbers 282-291			
282	624204	Tab Washer	2
283	301316280	Setscrew M 16 x 1,5 x 28 DIN 961	3
284	624203	Tab Washer	2
285	301316280	Setscrew M 16 x 1,5 x 28 DIN 961	4
Cadet Rotor Assembly			
comprising illustration numbers 286-291			
286	625791	Cadet Rotor Assembly for HA70	1
	625792	Cadet Rotor Assembly for HA80	1
	625793	Cadet Rotor Assembly for HA100	1
286	624191	Cadet Rotor for HA70	1
	624192	Cadet Rotor for HA80	1
	624193	Cadet Rotor for HA100	1
Cadet Blades			
287	626094	Cadet Blades r.h.	20 22 28
288	626093	Cadet Blade, l.h.	20 22 28
289	624392	Blade Bolt	40 44 56
290	308110040	Spring Washer	40 44 56
291	624395	Nut	40 44 56
Spike Rotor			
292	624204	Tab Washer	2
293	301316280	Setscrew M 16 x 1,5 x 28 DIN 961	3
294	624203	Tab Washer	3
295	301316280	Setscrew M 16 x 1,5 x 28 DIN 961	4
Spike Rotor Assembly			
comprising illustration numbers 296-298			
296	624405	Spike Rotor Assembly for HA70	1
	624406	Spike Rotor Assembly for HA80	1
	624407	Spike Rotor Assembly for HA100	1
	624408	Spike Rotor for HA70	1
	624409	Spike Rotor for HA80	1
	624410	Spike Rotor for HA100	1
297	624415	Spike	37 46
298	208086830	Spirol Pin	37 46

Howard HA Series Parts List

Trailing boards and supports

734	8.76	14
-----	------	----



Illustr. Part Number		Description		No. Off		Bulletin		Bin No.	
TRAILING BOARDS AND SUPPORTS									
305	624364	Skid r.h.	...	...	1				
306	307210125	Nut, self-locking M 10 DIN 985 cadm.	...	...	2				
307	308100045	Spring Washer B 10 DIN 127 cadm.	...	...	1				
308	301410255	Bolt M 10 x 25 DIN 933 cadm.	...	...	2				
309	301410255	Bolt M 10 x 25 DIN 933 cadm.	...	...	2				
310	624342	Ground Skid	...	...	1				
311	308100045	Spring Washers B 10 DIN 127 cadm.	...	...	2				
312	307210125	Nut, self-locking M 10 DIN 985 cadm.	...	...	2				
Trailing Boards for H50—HA100									
313	624121	Trailing Board for HA50	...	...	1				
	624122	Trailing Board for HA60	...	...	1				
	624123	Trailing Board for HA70	...	...	1				
	624124	Trailing Board for HA80	...	...	1				
	624125	Trailing Board l.h. for HA100	...	...	1				
	624126	Trailing Board r.h. for HA100	...	...	1				
Trailing Board Hinges HA30—HA100									
314	624101	Trailing Board Hinge	...	...	...				
315	301410300	Bolt M 10 x 30 DIN 933	...	...	...				
316	308110030	Spring Washer DIN 6797	...	...	...				
317	307210120	Nut, self-locking DIN 985	...	...	...				
Trailing Board support assembly for HA50—HA100									
624129		Mounting Plate	...	...	...				
318	624130	Spring Washer B 12 DIN 127	...	...	...				
319	308120040	Bolt M 12 x 30 DIN 933	...	...	...				
320	301412300	Spring Bar link Arm	...	...	...				
321	624133	Bolt M 12 x 45 DIN 931	...	...	...				
322	301212450	Nut, self-locking M 12 DIN 985	...	...	...				
323	307212120	Pin	...	...	...				
324	624139	Tension Pin 3,5 x 24	...	...	...				
325	208012900	Pin RS 3712	...	...	...				
326	208014525	U-Guide Plate	...	...	...				
327	624140	Plate	...	...	...				
328	624141	Bolt M 12 x 30 DIN 933	...	...	...				
329	301412300	Spring Washer B 12 DIN 127	...	...	...				
330	308120040	Nut, self-locking M 12 DIN 985	...	...	...				
331	307212120	Spring Bar	...	...	...				
332	624142	Bolt M 12 x 70 DIN 931	...	...	...				
333	301212700	Nut, self-locking M 12 DIN 985	...	...	...				
334	307212120	Washer A 15 DIN 125	...	...	...				
335	308150010	Spring	...	...	...				
336	208051150	Spring	...	...	...				
337	208051160	Nut, self-locking M 14 DIN 985	...	...	...				
338	307214120								

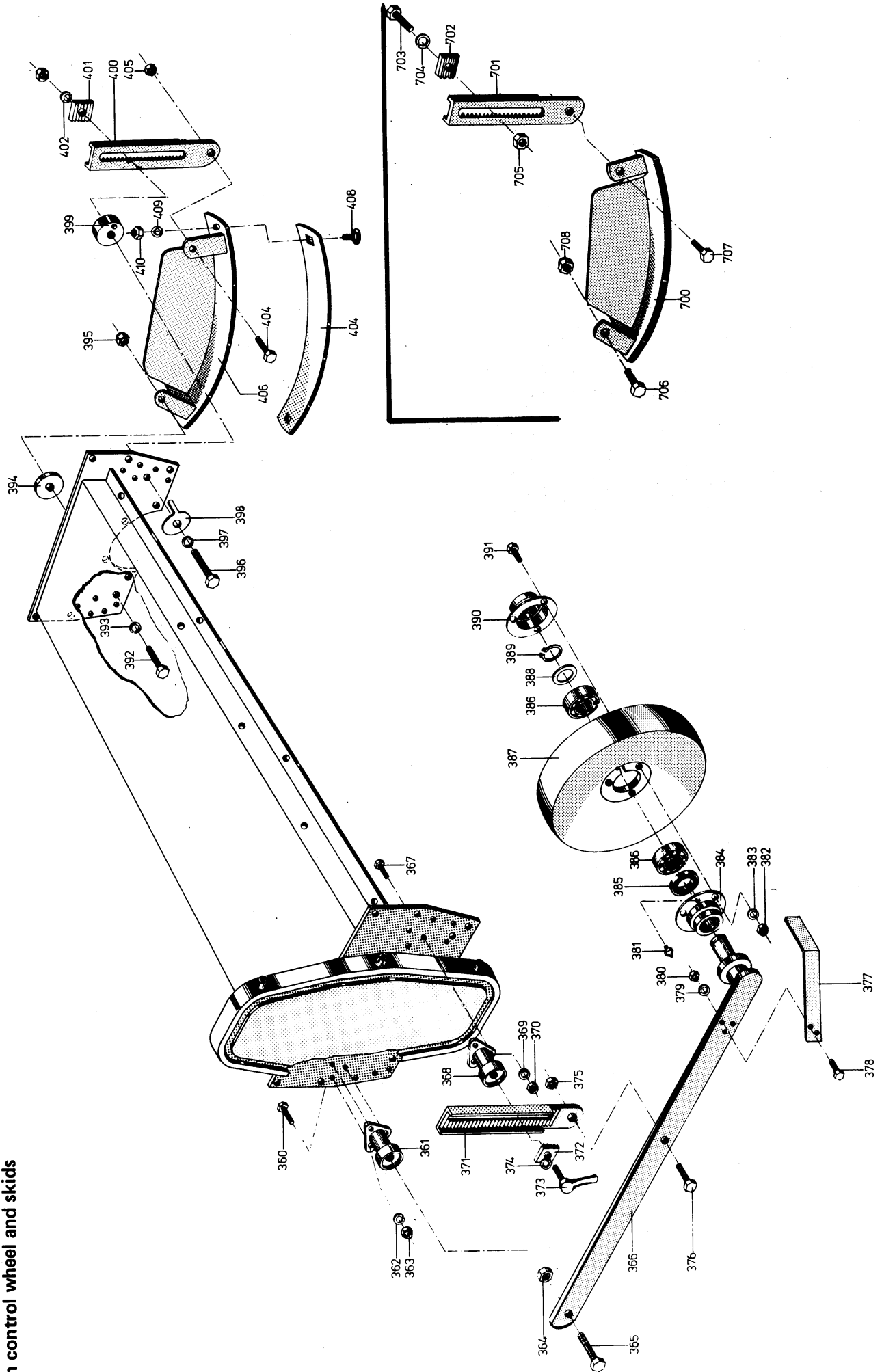
734		8.76	15
-----	--	------	----

Howard HA Series Parts List

Howard HA Series Parts List

Depth control wheel and skids

734	8.76	16
-----	------	----

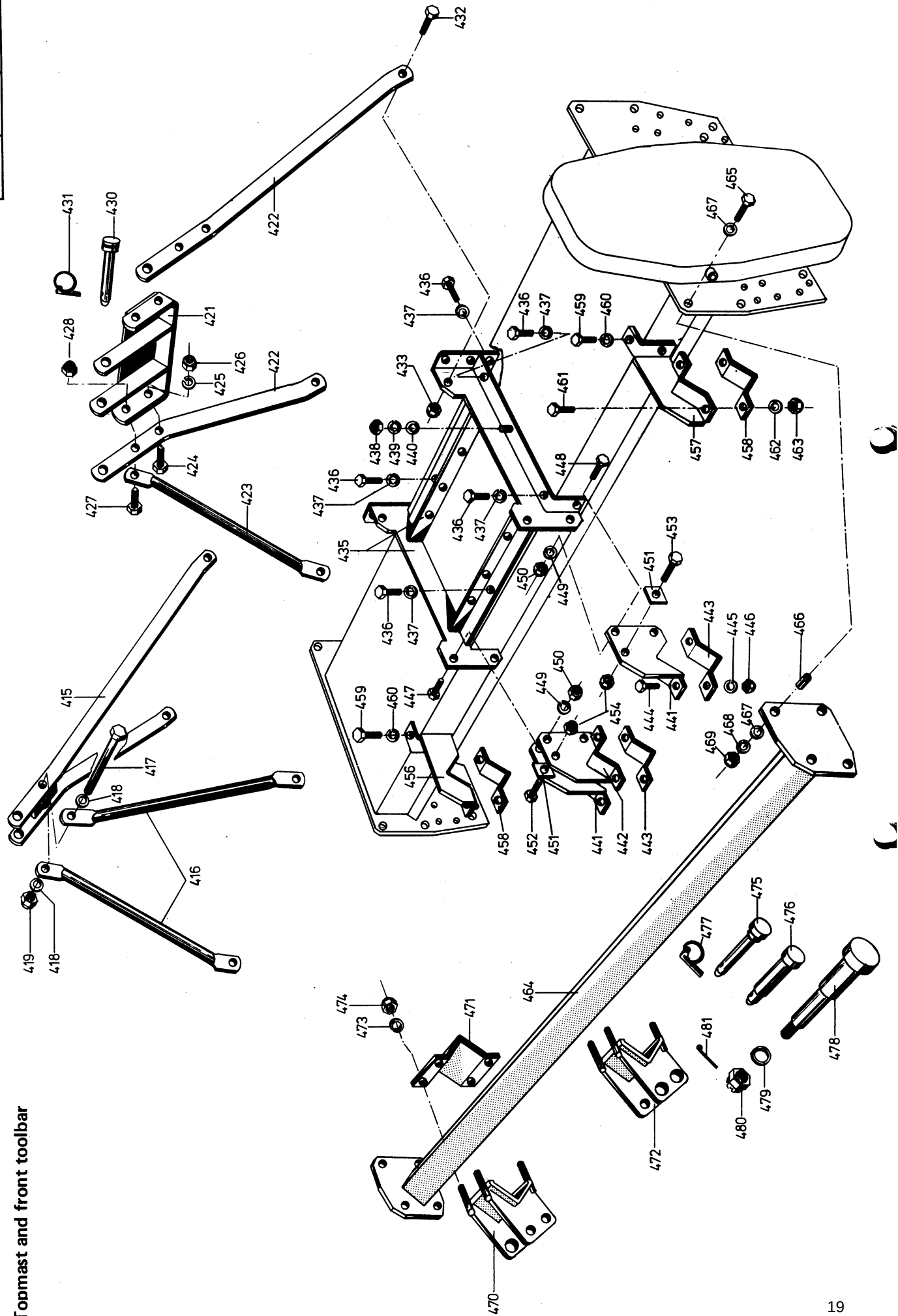


DEPTH CONTROL WHEEL AND SKIDS			DEPTH CONTROL SKID		
<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>
360	624220	Trailing Depth Control Wheel Assembly	408	319412300	Special Bolt M 12 x 30 DIN 608
361	301410305	Bolt M 10 x 30 DIN 933 cadm.	409	308120040	Spring Washer B 12 DIN 127
362	624221	Mounting Block Front	410	307212120	Nut, self-locking M 12 DIN 985
363	308100045	Spring Washer B 10 DIN 127 cadm.			
364	307210125	Nut, self-locking M 10 DIN 985 cadm.			
365	307220015	Nut M 20 DIN 934 cadm.			
366	301220655	Bolt M 20 x 65 DIN 931 cadm.			
367	624216	Wheel Arm			
368	301410305	Bolt M 10 x 30 DIN 933 cadm.			
369	624224	Mounting Block Rear			
370	308100045	Spring Washer B 10 DIN 127 cadm.			
371	307210125	Nut, self-locking M 10 DIN 985 cadm.			
372	624094	Adjusting Bar			
373	624095	Arresting Washer			
374	624096	Clamping Bolt			
375	308160045	Spring Washer B 16 DIN 127 cadm.			
376	307216015	Nut M 16 DIN 934 cadm.			
377	301216555	Bolt M 16 x 55 DIN 931 cadm.			
378	624219	Scraper			
379	301208350	Bolt M 8 x 35 DIN 931			
380	308080040	Spring Washer B 8 DIN 127			
381	307208010	Nut M 8 DIN 934			
382	202030760	Grease Nipple AM 6 DIN 71412			
383	307208120	Nut, self-locking M 8 DIN 985			
384	308080040	Spring Washer B 8 DIN 127			
385	624098	Inner Housing			
386	264735072	Oilseal			
387	252552155	Ballbearing			
388	624611	Depth Control Wheel			
389	203038350	Shim SS 25-45-2			
390	208002680	Circlip 25 x 1,2 DIN 471			
391	624099	Outer Housing			
	301408200	Bolt M 8 x 20 DIN 933			
	624346	Depth Control Skid			
		with Adjustment Assembly			
392	301416555	Bolt M 16 x 55 DIN 933 cadm.			
393	308160045	Spring Washer B 16 DIN 127 cadm.			
394	624350	Spacer			
395	307216125	Special Nut, self-locking M 16 DIN 985 cadm.			
396	301416750	Bolt M 16 x 90 DIN 933			
397	308160045	Spring Washer B 16 DIN 127 cadm.			
398	624439	Tab Washer			
399	624351	Spacer			
400	624094	Adjusting Bar			
401	624095	Arresting Washer			
402	308160045	Spring Washer B 16 DIN 127 cadm.			
403	307216010	Nut, M 16 DIN 934			
404	301416405	Bolt M 16 x 40 DIN 933 cadm.			
405	307216015	Nut M 12 DIN 934 cadm.			
406	624347	Skid			
407	624354	Sole Plate			

Howard HA Series Parts List

Topmast and front toolbar

734	8.76	18
-----	------	----



Illustr. Part Number		Description	No. Off		Bulletin	Bin No.
TOPMAST AND FRONT TOOLBAR ASSEMBLY						
415	624298	Topmast for HA30, HA70G and HA40 only up to serial number 801 C 5801	...	1		
415	624299	Topmast for HA80 and HA100	...	1		
416	624304	Tube support for HA30, HA40 and HA70G, HA80 and HA100	...	2		
417	301814120	Bolt M 14 x 120	...	1		
418	308150010	Spring Washer	...	2		
419	307214120	Self-locking nut M14	...	1		
		DIN 985	...			
Illustration numbers 421 to 428 for HA50, HA60, HA70 and HA40 only from serial number 801 C 5802						
421	624315	Topmast	...	1		
422	624316	Strut	...	2		
423	624323	Tube Support	...	2		
424	301414450	Bolt M 14 x 45 DIN 933	...	2		
425	308140040	Spring Washer B 14 DIN 127	...	2		
426	307214120	Nut, self-locking M 14 DIN 985	...	2		
427	301214500	Bolt M 14 x 50 DIN 931	...	2		
428	307214120	Nut self-locking M 14 DIN 985	...	2		
430	624306	Tie Bolt	...	1		
431	208014530	Clip Pin RS 3735 C	...	1		
432	301414400	Bolt M 14 x 40 DIN 933	...	2		
433	307214120	Nut self-locking M 14 DIN 985	...	2		
435	624285	Gearbox Frame	...	1		
436	301412300	Bolt M 12 x 30 DIN 933	...	10		
437	308120040	Spring Washer B 12 DIN 127	...	10		
438	307212120	Nut, self-locking M 12 DIN 985	...	2		
439	308120040	Spring Washer B 12 DIN 127	...	2		
440	308130010	Washer A 13 DIN 125	...	2		
441	624307	Support l.h.	...	...	...	...
442	624308	Support r.h.	...	...	...	...
443	624310	Clamp	...	...	...	...
444	301214500	Bolt M 14 x 50 DIN 931	...	...	...	...
445	308140040	Spring Washer B 14 DIN 127	...	...	...	...
446	307214120	Nut, self-locking M 14 DIN 985	...	...	...	...
447	301414450	Bolt M 14 x 45 DIN 933	...	...	...	...
448	301414400	Bolt M 14 x 40 DIN 933	...	...	...	...
449	308140040	Spring Washer B 14 DIN 127	...	...	...	...
450	307214120	Nut, self-locking M 14 DIN 985	...	...	...	...
451	624305	Square Washer	...	...	...	...
452	301414450	Bolt M 14 x 45 DIN 933	...	...	...	...
Illustration numbers 453 to 481 for HA50, HA60, HA70 and HA40 only from serial number 801 C 5802						
453	301414350	Bolt M 14 x 35 DIN 933	...	...	...	...
454	307214120	Nut self-locking M 14 DIN 985	...	...	...	...
456	624322	Support r.h.	...	...	...	...
457	624319	Support l.h.	...	...	...	...
458	624310	Clamp	...	...	...	...
459	301412300	Bolt M 12 x 30 DIN 933	...	...	...	...
460	308120040	Spring Washer B 12 DIN 127	...	...	...	...
461	301214500	Bolt M 14 x 50 DIN 931	...	...	...	...
462	308140040	Spring Washer B 14 DIN 127	...	...	...	...
463	307214120	Nut, self-locking M 14 DIN 985	...	...	...	...
464	624155	Toolbar for HA30	...	...	...	...
	624156	Toolbar for HA40	...	...	...	...
	624157	Toolbar for HA50	...	...	...	...
	624158	Toolbar for HA60	...	...	...	...
	624159	Toolbar for HA70	...	...	...	...
	624160	Toolbar for HA80	...	...	...	...
	624161	Toolbar for HA100	...	...	...	...
465	301412350	Bolt M 12 x 35 DIN 933	...	...	...	...
466	208012910	Tension Pin 16 x 14 DIN 7346	...	...	...	...
467	308130010	Washer A 13 DIN 125	...	...	...	...
468	308120040	Spring Washer B 12 DIN 127	...	...	...	...
469	307212120	Nut, self-locking M 12 DIN 985	...	...	...	...
470	624499	Mounting Bracket r.h.	...	...	...	...
471	624175	Clamp	...	...	...	...
472	624498	Mounting Bracket l.h.	...	...	...	...
473	308140040	Spring Washer B 14 DIN 127	...	...	...	...
474	307214120	Nut, self-locking M 14 DIN 985	...	...	...	...
475	624502	Mounting Pin Cat 1	...	...	...	...
476	624503	Mounting Pin Cat II	...	...	...	...
477	208014530	Clip Pin RS 3735 C	...	...	...	...
478	624560	Quick-Coupling Pin	...	...	...	...
479	308230010	Washer 23 DIN 125	...	...	...	...
480	307120140	Special Nut M 20 x 1,5 DIN 979	...	...	...	...
481	208010990	Split Pin 4 x 40 DIN 94	...	...	...	...

734

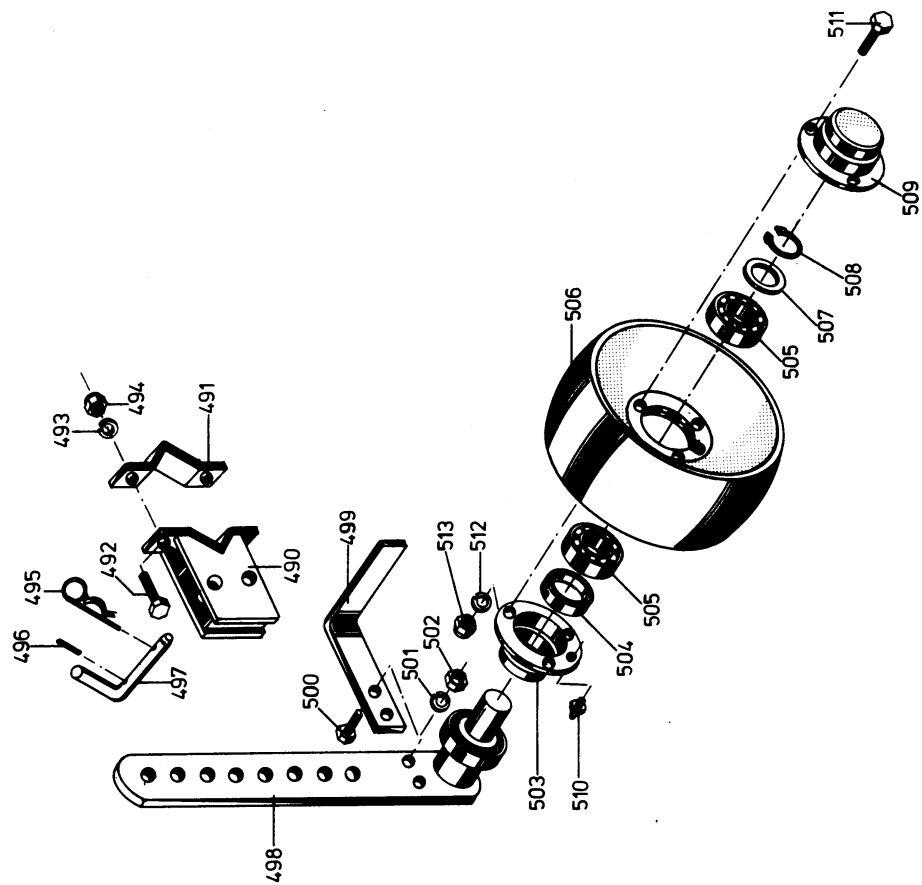
8.76

19

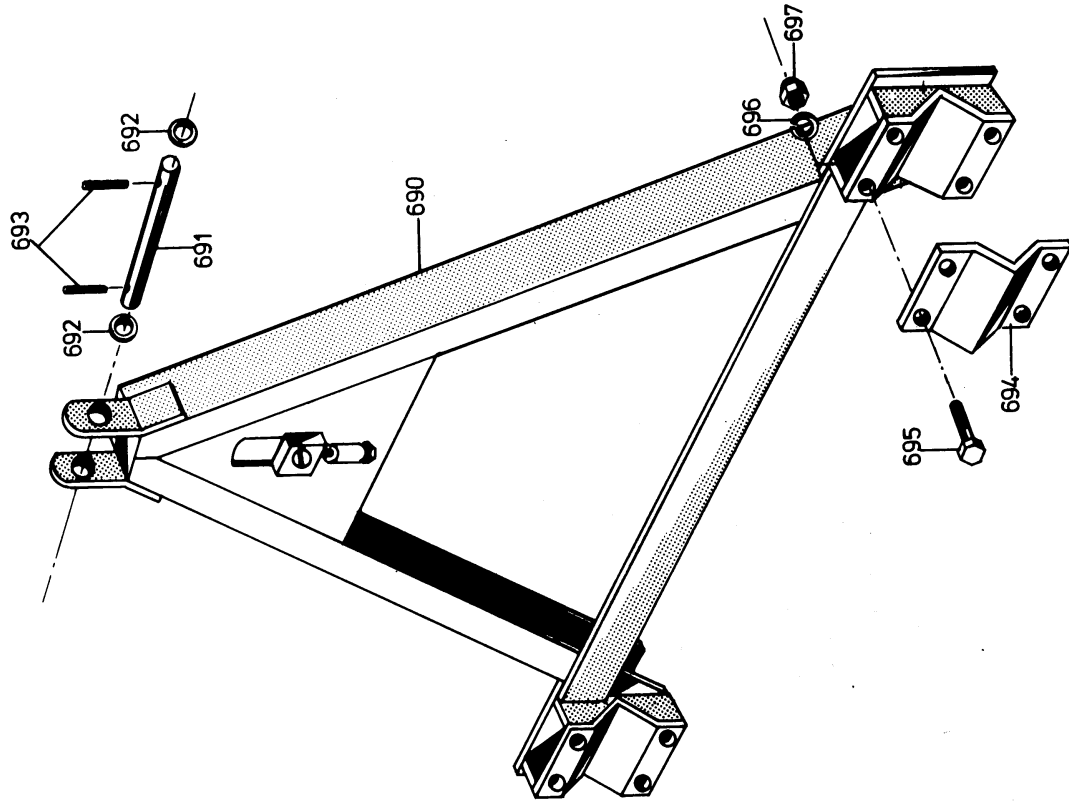
Howard HA Series Parts List

Howard HA Series Parts List

Front mounted depth control wheel



Quick hitch



734

8.76

20

Illus. Part Number
No.

Description		No. Off
FRONT MOUNTED DEPTH CONTROL WHEEL		
Front Mounted Depth Control Wheel Assembly comprising:		
624608	Mounting Bracket	2
490 624327	Clamp	2
491 624310	Bolt M 14 x 50 DIN 931	2
492 308140040	Spring Washer B 14 DIN 127	4
493 308140040	Nut, self-locking M 14 DIN 985	4
494 307214120	Clip Pin RS 3713	4
495 208014450	Tension Pin 5 x 28 DIN 1481	2
496 208012540	Pin	2
497 629977	Wheel Arm	2
498 624607	Scraper	2
499 624335	Bolt M 8 x 35 DIN 931	2
500 301208350	Spring Washer B 8 DIN 127	4
501 308080040	Nut M 8 DIN 934	4
502 307208010	Inner Housing	4
503 624098	Oilseal BA 35 x 47 x 7	2
504 264735072	Ballbearing 6205	2
505 252552155	Depth Control Wheel	4
506 624604	Shim SS 25 x 35 x 2	2
507 203038350	Circlip 25 x 1,2 DIN 471	2
508 208002680	Outer Housing	2
509 624099	Grease Nipple AM 6 DIN 71412	2
510 202030760	Bolt M 8 x 20 DIN 933	2
511 301408200	Spring Washer B 8 DIN 127	6
512 308080040	Nut, self-locking M 8 DIN 985	6
513 307208120		6

Bulletin	Bin No.

Illus. Part Number
No.

Description		No. Off
QUICK HITCH		
Quick Hitch Assembly comprising:		
624559	Quick Hitch	1
690 624552	Bolt	1
691 624558	Washer 18 DIN 125 cadm.	1
692 308190015	Tension Pin 5 x 28 DIN 1481	2
693 208012540	Clamp	2
694 624175	Bolt M 14 x 50 DIN 931 cadm.	2
695 301214505	Spring Washer B 14 DIN 127 cadm.	8
696 308140045	Nut, self-locking M 14 DIN 985 cadm.	8
697 307214125		8

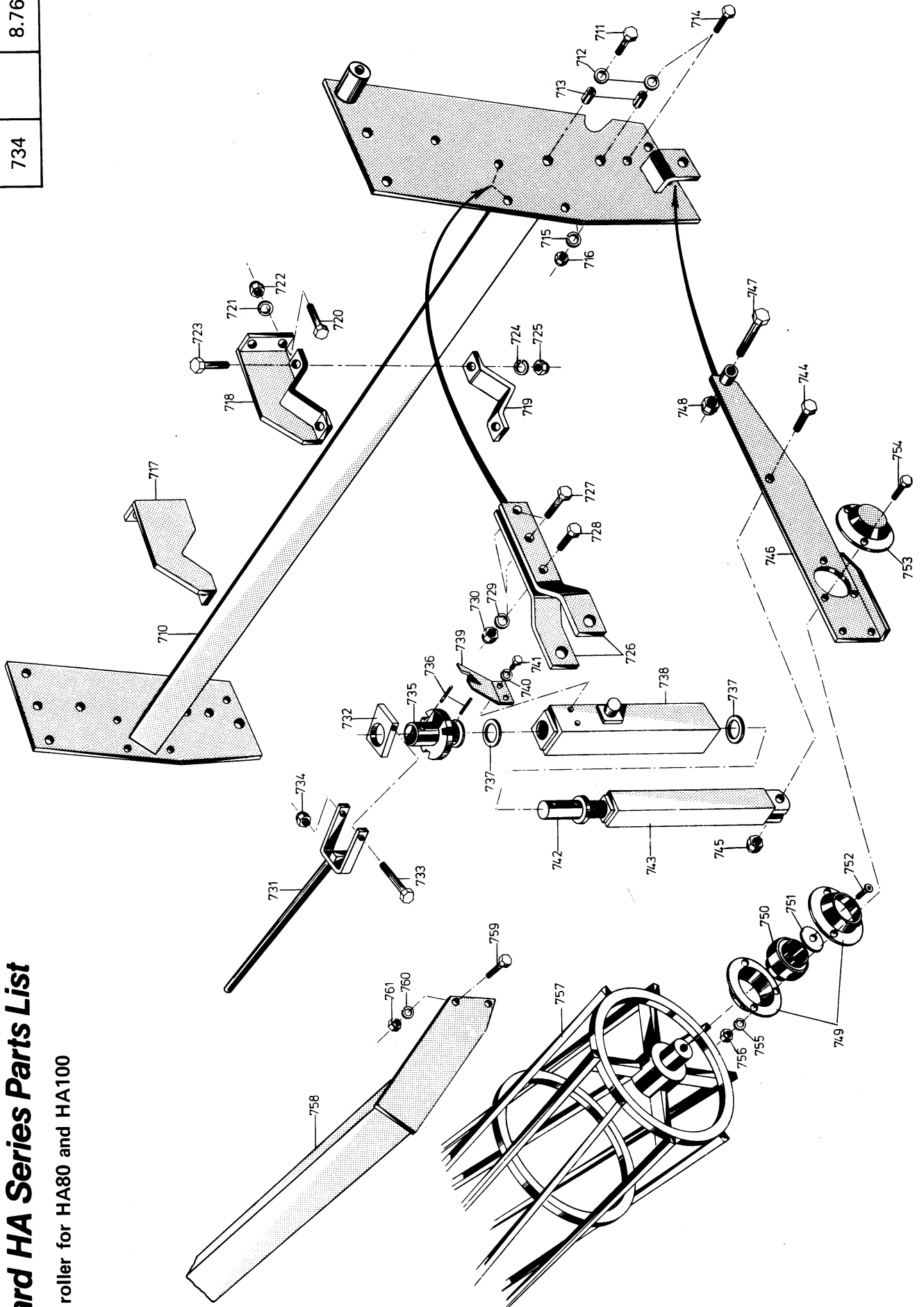
Bulletin	Bin No.
734	8.76
	21



734	8.76	22
-----	------	----

Howard HA Series Parts List

Crumble roller for HA80 and HA100



<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. Off</i>	<i>Bulletin</i>	<i>Bin No.</i>
CRUMBLE ROLLER FOR HA80 AND HA100					
710	625972	Rear Toolbar for HA80 ...	1		
710	625974	Rear Toolbar for HA100 ...	1		
711	301212505	Bolt M 12 x 50 DIN 931 cadm.	2		
712	308130015	Washer A 13 DIN 125 cadm.	4		
713	208012910	Tension Pin 16 x 14 DIN 7346	4		
714	301412405	Setcrew M 12 x 40 DIN 933 cadm.	6		
715	308120045	Spring Washer B 12 DIN 127 cadm.	8		
716	307212125	Nut, self-locking M 14 DIN 985 cadm.	8		
717	624491	Support l.h. ...	1		
718	624492	Support r.h. ...	1		
719	624310	Clamp ...	2		
720	301412405	Setcrew M 12 x 40 DIN 933 cadm.	4		
721	308120045	Spring Washer B 12 DIN 127 cadm.	4		
722	307212125	Nut, self-locking M 12 DIN 985	4		
723	301214505	Bolt M 14 x 50 DIN 931 cadm.	4		
724	308140045	Spring Washer B 14 DIN 127 cadm.	4		
725	307214125	Nut, self-locking M 14 DIN 985 cadm.	4		
726	625981	Spindle Clamp ...	4		
727	301212505	Bolt M 12 x 50 DIN 931 cadm.	4		
728	301412405	Setcrew M 12 x 40 DIN 933 cadm.	2		
729	308120045	Spring Washer B 12 DIN 127 cadm.	6		
730	307212125	Nut, self-locking M 12 DIN 985 cadm.	6		
Depth Control Spindle compl. comprising:					
623510		Handle ...	2		
731	623530	Handle Bracket ...	2		
732	623529	Bolt M 8 x 65 DIN 931 ...	2		
733	301208650	Nut, self-locking M 8 DIN 985	2		
734	307208120	Ratchet Housing ...	2		
735	623525	Tension Pin 6 x 32 DIN 1481	4		
736	208012420	Plastic Washer ...	4		
737	623524	Outer Spindle Tube ...	2		
738	623515	Arresting Spring ...	2		
739	624481	Spring Washer M 6 DIN 127	4		
740	308060040	Setcrew M 6 x 10 DIN 933	4		
741	301406100	Spindle ...	2		
742	623521	Spindle Tube ...	2		
743	623511		2		
744	301416505	Setcrew M 16 x 50 DIN 933 cadm.	2		
745	307216125	Nut, self-locking M 16 DIN 985 cadm.	2		
746	626058	Mounting Arm r.h. ...	1		
n.i.	626057	Mounting Arm l.h. ...	1		
747	301216755	Bolt M 16 x 75 DIN 931 cadm.	2		
748	307216125	Nut, self-locking M 16 DIN 985 cadm.	2		
749	253011261	Bearing Housing PFL 62	4		
750	253052371	Bearing ...	2		
751	625487	Washer ...	2		

<i>Illus. No.</i>	<i>Part Number</i>	<i>Description</i>	<i>No. Off</i>
752	305210300	Hexagon Socket Countersunk Head-screw M10 x 30 DIN 7991 ...	2
753	624826	End Cover ...	2
754	301410300	Setcrew M 10 x 30 DIN 933	6
755	308100040	Spring Washer B 10 DIN 127	6
756	307210010	Nut M 10 DIN 934	6
757	624963	Crumble Roller for HA80	1
757	624898	Crumble Roller for HA100	1
758	625474	Frame for HA80	1
758	625476	Frame for HA100	1
759	301414405	Setcrew M 14 x 40 DIN 933 cadm.	4
760	308140045	Spring Washer B 14 DIN 127 cadm.	4
761	307214045	Nut M 14 DIN 934 cadm.	4

TRANSFER LIST - NOT ILLUSTRATED

624379	Machine serial number plate	1
624380	Blade fitting instructions standard rotor-multi language	1
624381	Blade fitting instructions cadet rotor-multi language	1
624382	Gearbox oil level - German language	1
624383	Sidedrive oil level and chain adjustment - German language	1
624384	Universal joint warning - German language	1
624385	Rotor warning - multi language	1
624386	Selectatilh gearbox speeds - standard rotor	1
624387	Selectatilh gearbox speeds - spike rotor	1
624388	Howard Rotavator HA	1
624876	'H' Symbol	1
624877	Fitted to sidedrive cover from Howard machine serial number 801C 9184	1

<i>Bulletin</i>	<i>Bin No.</i>	<i>No. Off</i>
		734
		8.76
		23

Howard HA Series Numerical Parts List



734	8.76	24
-----	------	----

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.
602	50		624067	147,193		624188	276		625801	276	
9849	279		624068	148		624410	296		625875	222	
9900	278		624069	141		624415	297		625878	223	
61188	277		624070	118,197		624418	47		625972	710	
623510	281		624071	119,178		624420	49		625974	710	
623511	731		624072	120,179		624421	48		625981	726	
623515	743			196		624422	50		626057	N.I.	
623521	738		624073	137,188		624423	46		626058	746	
623525	742		624074	131		624424	22		626093	288	
623529	737		624079	129		624425	11		626094	287	
624001	735		624080	133		624426	115,175		626977	497	
624002	732		624081	123		624435	1-31		202025350	231	
624004	731		624084	124		624436	12,31		202025360	241	
624006	282		624085	125,184		624437	35,46		202025370	236	
624007	242		624088	174,202		624439	398		202025380	208	
624008	248			204		624444	153		202030760	250,381	
624009	249		624090	192		624445	152		202070470	138,189	
624011	292,237		624091	183		624446	152		203031020	226	
624012	233		624093	180		624447	152		203031030	226	
624013	235		624094	371,400		624448	153		203031040	157,204	
624014	237,273			701		624449	739		203031360	126,186	
624015	219		624095	372,401		624450	47,54		203032010	156,203	
624016	219,624		624096	373		624451	717		203038330	150	
624020			624098	384,503		624452	718		203038340	127,187	
624022			624101	390,509		624453	472		203038350	388,507	
624023			624119	314		624454	470		252552155	386,505	
624024			624121	339		624455	475		253011261	749	
624025			624122	339		624456	476		253062371	750	
624026			624123	313		624457	690		253552081	247	
624027			624124	313		624458	691		253557011	246	
624028			624125	313		624459	691		253580211	245	
624029			624126	313		624460	478		253580231	145,195	
624030			624127	313		624461	506		254080251	142,149	
624031			624128	313		624462	498		254585251	191	
624032			624129	313		624463	490		255512291	207	
624033			624130	318		624464	387		255512291	232	
624034			624131	321		624465	387		260011246	104,164	
624035			624132	324		624466	753		264735072	385,504	
624036			624133	324		624467	757		267250052	239	
624037			624134	327		624468	757		267250052	239	
624038			624135	327		624469	100,109		267250083	139,190	
624039			624136	328		624470	160,169		268060082	105,165	
624040			624137	328		624471	106,166		268551622	234	
624041			624138	332		624472	102,162		301208350	378,500	
624042			624139	340		624473	260		301208350	378,500	
624043			624140	341		624474	339		301208350	378,500	
624044			624141	341		624475	339		301210400	346	
624045			624142	348		624476	758		301212505	711,727	
624046			624143	348		624477	751		301212505	711,727	
624047			624144	348		624478	751		301212505	711,727	
624048			624145	348		624479	751		301212505	711,727	
624049			624146	348		624480	751		301212505	711,727	
624050			624147	348		624481	751		301212505	711,727	
624051			624148	348		624482	751		301212505	711,727	
624052			624149	348		624483	751		301212505	711,727	
624053			624150	348		624484	751		301212505	711,727	
624054			624151	348		624485	751		301212505	711,727	
624055			624152	348		624486	751		301212505	711,727	
624056			624153	348		624487	751		301212505	711,727	
624057			624154	348		624488	751		301212505	711,727	
624058			624155	348		624489	751		301212505	711,727	
624059			624156	348		624490	751		301212505	711,727	
624060			624157	348		624491	751		301212505	711,727	
624061			624158	348		624492	751		301212505	711,727	
624062			624159	348		624493	751		301212505	711,727	
624063			624160	348		624494	751		301212505	711,727	
624064			624161	348		624495	751		301212505	711,727	
624065			624162	348		624496	751		301212505	711,727	
624066			624163	348		624497	751		301212505	711,727	
			624164	348		624498	751		301212505	711,727	
			624165	348		624499	751		301212505	711,727	
			624166	348		624500	751		301212505	711,727	
			624167	348		624501	751		301212505	711,727	
			624168	348		624502	751		301212505	711,727	
			624169	348		624503	751		301212505	711,727	
			624170	348		624504	751		301212505	711,727	
			624171	348		624505	751		301212505	711,727	
			624172	348		624506	751		301212505	711,727	
			624173	348		624507	751		301212505	711,727	
			624174	348		624508	751		301212505	711,727	
			624175	348		624509	751		301212505	711,727	
			624176	348		624510	751		301212505	711,727	
			624177	348		624511	751		301212505	711,727	
			624178	348		624512	751		301212505	711,727	
			624179	348		624513	751		301212505	711,727	
			624180	348		624514	751		301212505	711,727	
			624181	348		624515	751		301212505	711,727	
			624182	348		624516	751		301212505	711,727	
			624183	348		624517	751		301212505	711,727	
			624184	348		624518	751		301212505	711,727	
			624185	348		624519	751		301212505	711,727	
			624186	348		624520	751		301212505	711,727	
			624187	348		624521	751		301212505	711,727	
						624522	751		301212505	711,727	
						624523	751		301212505	711,727	
						624524	751		301212505	711,727	
						624525	751		301212505	711,727	
						624526	751		301212505	711,727	
						624527	751		301212505	711,727	
						624528	751		301212505	711,727	
						624529	751		301212505	711,727	
						624530	751		301212505	711,727	
						624531	751		301212505	711,727	
						624532	751		301212505	711,727	
						624533	751		301212505	711,727	
						624534	751		301212505	711,727	
						624535	751		301212505	711,727	
						624536	751		301212505	711,727	
						624537	751		301212505	711,727	
						624538	751		301212505	711,727	
						624539	751		301212505	711,727	
						624540	751		301212505	711,727	
						624541	751		301212505	711,727	
						624542	751		301212505	711,727	
						624543	751		301212505	711,727	
						624544	751		301212505	711,727	
						624545	751		301212505	711,727	
						624546	751		301212505	711,727	
						624547	751		301212505	711,727	
						624548	751		301212505	711,727	
						624549	751		301212505	711,727	
						624550	751		301212505	711,727	
						624551	751		301212505	711,727	
						624552	751		301212505	711,727	
						624553	751		301212505	711,727	
						624554	751		301212505	711,727	
						624555	751		301212505	711,727	
						624556	751		301212505	711,7	

Part No.	Illus. or Item No.	Bin No.	Part No.	Illus. or Item No.	Bin No.
307214125	697,725		TRANSFER LIST		
307216010	211,403		624379	n.i.	
	705		624380	n.i.	
307216015	375,405		624381	n.i.	
307216120	708		624382	n.i.	
307216125	395,745		624383	n.i.	
	748		624384	n.i.	
307220015	364		624385	n.i.	
308060040	740		624386	n.i.	
308080040	111,121		624387	n.i.	
	171,251		624388	n.i.	
	379,383		624876	n.i.	
	512		624877	n.i.	
308080150	224				
308100040	108,117				
	135,168				
	177,181				
	199,206				
308100040	228,263				
	268,307				
	311,344				
	351,501				
	755				
308100045	362,369				
308110010	136,267				
	343,350				
308110030	254,316				
308110040	290				
308120040	319,330				
	409,460				
	468				
308120045	715,721				
	729				
308130010	53,467				
308130015	712				
308140040	144,200				
	425,462				
	473,493				
308140045	696,724				
	760				
308150010	213,335				
	418				
308160040	704				
308160045	374,393				
	397,402				
308190015	692				
308230010	479				
308370050	101,161				
308430050	220				
317410250	134				
319412300	408				

Howard HA Series Numerical Parts List

Bulletin number	Effective from machine serial number	Remarks

This section and the column headed 'Bulletin' and 'Bin No.' are intended for Dealers use only.

Parts Bulletin Record

734

8.76

25