

MICA
MASKINAKTIESELSKAB
5580 AARHUS - TLF. (09) 43 13 03

EMO-ANDEN SERIE III
Fra serie nr. 6334122
Til - - 6364776

E SERIES SPARE PARTS LIST

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. The serial number is stamped on the plate fixed to the inside of the Chaincase backplate (Illus. No. 124) above the shield, and again on the Staytube right hand mounting flange. We cannot guarantee to supply correct parts unless these numbers are quoted.



FROM THE WORLD'S LEADING MANUFACTURER OF ROTARY TILLAGE EQUIPMENT

HOWARD ROTAVATOR CO. LTD., WEST HORNDON, ESSEX

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THE QUEEN'S AWARD
TO INDUSTRY 1966

E SERIES PARTS LIST

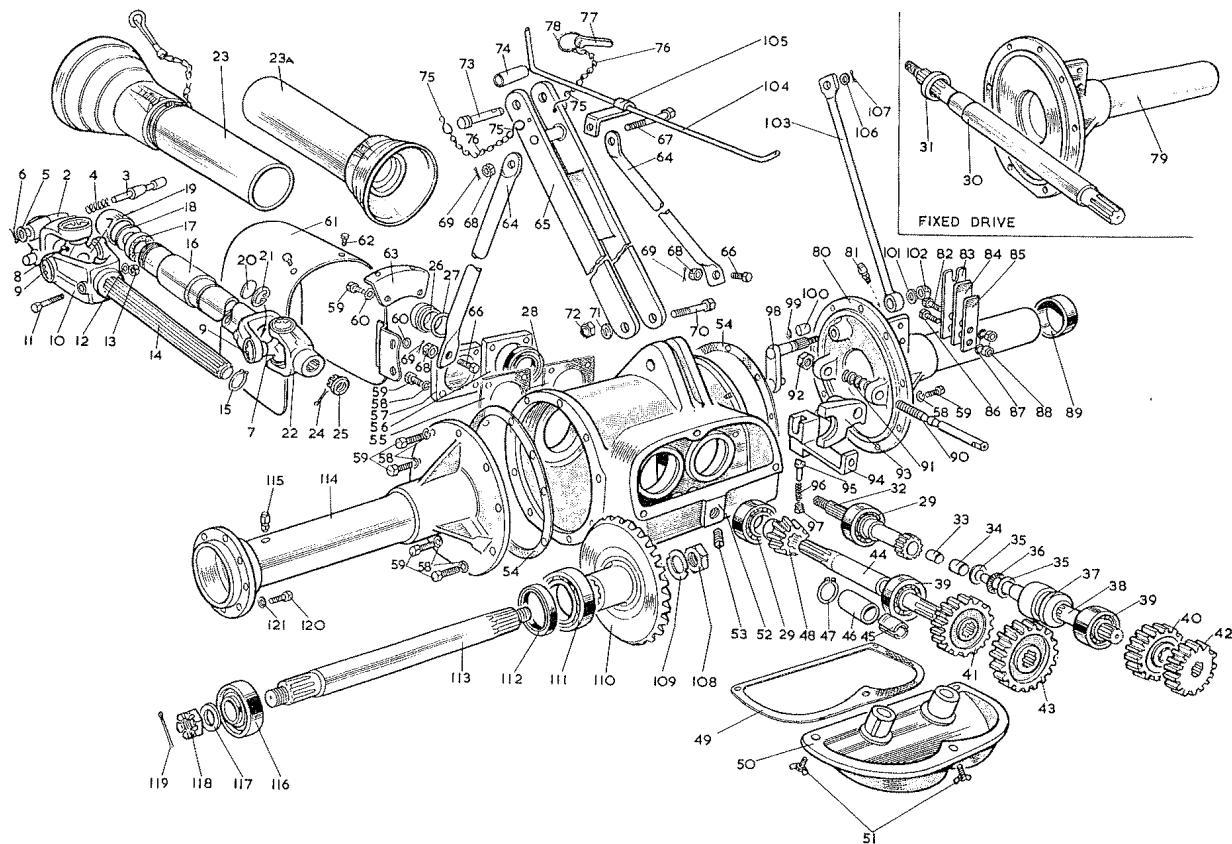


Diagram:-
Universal Joint, Gearbox, R. H. Sideplate
Jackshaft Assemblies

Illus. No.	Part No.	Description	No. off	Illus. No.	Part No.	Description	No. off
1	60954	Machine Number Plate	1	9	K.3.7.GB.19	Circlip	8
UNIVERSAL JOINT ASSEMBLY				41.82.002.1512	{ Yoke and Bar Shaft Assembly (comprising:-	1	
(67957	Universal Joint Assembly - Standard fitment		1	10	41.26.008	{ Yoke	1
(67959	Universal Joint Assembly - 1000 r.p.m. Tractors only comprising:-		1	11	6.73.GB.1160	{ Bolt	1
(K.3.4.GB.3458	{ P.T.O. Yoke Assembly (comprising:-	Standard fitment	1	12	6.75.GB.99.	{ Washer	1
2 K.3.4.GB.3441	{ Yoke		1	13	6.74.GB.11	{ Nut	1
3 94.GB.2747	{ Pin		2	14	00.93.02.1512	{ Splined Shaft	1
4 94.GB.2839	{ Spring		2	15	K.3.77.GB.49	{ Retainer Lockring	1
5 5.75.GB.59	{ Washer		2	16	41.61.003.0730	Yoke Tube and Sleeve Assembly	1
6 8.72.GB.69	{ Cotter		2	17	K.3.16.GB.123	Felt Washer	1
K.3.4.W.3878	{ P.T.O. Yoke Assembly (comprising:-	1000 r.p.m. Tractors only	1	18	K.3.15.GB.71	Washer	1
2 K.3.4.W.3861	{ Yoke		1	19	3.1/2.14.19	Dust Cap	1
3 00.08.01	{ Pin		2	20	K.3.68.GB.153	End Plug	1
4 00.12.00	{ Spring		2	21	K.3.7.GB.189	Circlip	1
5 00.33.04	{ Tension Pin		2	22	K.3.4.GB.3471	Attachment Yoke	1
7 3275	Spider Assembly		2	SN/B/18	Guard Assembly Complete	1	
8 94.GB.2204	Journal Lubricator		2	23AP.93-TF.2.1131	Outer Half Guard Assembly	1	
				23AAP.93-TM.2.1516	Inner Half Guard Assembly	1	
				GEARBOX ASSEMBLY			
				24	Splitpin 3/16" dia. x 2" long	1	
				25	65540 Special Nut	1	
				26	65539 Spacer	1	
				27	'O' Ring - Pioneer Ref.3-146. 1.5/8" i.d. x 1.7/8" o.d. x .139	1	

Illus. No.	Part No.	Description	No. off	Illus. No.	Part No.	Description	No. off
28		Oilseal - Pioneer Type 13P.300.212.50. 3"o.d. x 2.1/8"i.d. x 1/2" w.5	1	65	65562	Topmast	1
29		Bearing - Timkin Type TS. Cone 3779 - Cup 3720 26302/053	2	66	65966	Special Bolt - Tube Support to Staytube	2
30	67938	Extension Shaft } for Fixed Drive only	1	67	65965	Special Bolt - Tube Support to Topmast	1
31	67939	Abutment Ring	1			Flat Washer 5/8" dia.	2
+	66288	Extension Shaft Assembly comprising:-	1	68		Slotted Nut 5/8" UNF.	3
32 +	65541	Front Bearing Shaft	1	69		Splitpin 1/8" dia. x 1.3/8" long	3
33 +		Bush - Glacier No.3208 - 1"i.d. x 1.1/8"o.d. x 1" long	1	70		Bolt 3/4" UNF. x 4.1/4" long	1
34 +		Bush - Glacier No.4008 - 1.1/4"i.d. x 1.13/32"o.d. x 1" long	1	71		Shakeproof Washer 3/4" dia. External	1
35 +		Torrington Thrust Race - Ref.TRD.2031	2	72		Nut 3/4" UNF.	1
36 +		Torrington Thrust Bearing - Ref.NTA.2031	1	73	65566	Draw Pin	1
37 +	65542	Sliding Dog	1	74	65577	Sleeve	1
38 +	65543	Rear Extension Shaft	1	75	3912	Hook	3
39	251535/15	Bearing - Timkin Type TS. Cone 418 - Cup 414	2	76	3913	Chain	2
40	65575	Pick-off Gear 17 Teeth	1	77	50934	Clip Pin	1
41	65576	Pick-off Gear 18 Teeth	1	78	60495	Clip Ring	1
42	65571	Pick-off Gear 15 Teeth	1	NOTE:- Parts marked + are for Dog Clutch Drive only.			
43	65572	Pick-off Gear 20 Teeth	1	R. H. SIDEPLATE ASSEMBLY			
	65567	Pick-off Gear 12 Teeth	1	79	67941	R. H. Sideplate - for Fixed Drive only.	1
	65568	Pick-off Gear 23 Teeth	1	80 +	65588	R. H. Sideplate - for Dog Clutch Drive only.	1
	65569	Pick-off Gear 14 Teeth	1	81		Pressure Relief Valve 1/8" BSP. Tec. Type OA.6862	1
	65570	Pick-off Gear 21 Teeth	1	82		Bolt 1/2" UNF. x 2" long	1
	65573	Pick-off Gear 16 Teeth	1	83	65599	Rear Leaf Spring	1
	65574	Pick-off Gear 19 Teeth	1	84	65600	Centre Leaf Spring	1
	66205	Pick-off Gear 13 Teeth	1	85	65601	Front Leaf Spring	1
	66206	Pick-off Gear 22 Teeth	1	86		Bolt 1/2" UNF. x 1.1/2" long	1
44	65550	Pinion Shaft	1	87		Spring Washer 1/2" dia.	2
45	65549	Split Sleeve	1	88		Nut 1/2" UNF.	2
46	65548	Retaining Sleeve	1	89	68208	Tube Cap	1
47	Circlip*1.7/8" dia. External		1	90 +	65597	Slide Bar	1
48	65516	Pinion	1	91 +	61042	Dog Clutch Spring	1
49	65545	Cover Plate Gasket	1	92 +		Locknut 5/8" UNC.	1
50	65540A	Cover Plate 68963 = 58087	1	93 +	65509	Selector Fork	1
51	64808	Special Bolts	3	94 +	65598	Selector Block	1
52	65537	Gearbox	1	95 +	61045	Pawl	1
53		Plug 1/2" BSP. Square Head	1	96 +	61044	Pawl Spring	1
54	65544	Sideplate Gasket	3	97 +	61043	Adjuster	1
55	65552	Gasket .005	as req'd.	98 +	65592	Selector Arm	1
	65553	Gasket .010	as req'd.	99 +	202023/60 'O' Ring - Pioneer Ref. PO/07505610.		1
	65554	Gasket .020	as req'd.	100 +	61189	Collar	1
56	65538	Extension Shaft End Cover	1	101 +		Flat Washer 7/16" dia.	1
57	65555	Pinion Shaft End Cover	1	102 +		Nut 7/16" UNF. Philidas Ref.LUFI.	1
58		Spring Washer 1/2" dia.	22	103 +	65914	Lever	1
59		Bolt 1/2" UNC. x 1.1/4" long	26	+	65917	Selector Rod Assembly comprising:-	1
60		Shakeproof Washer 1/2" dia. External	4	104 +	65916	Selector Rod	1
61	65556	Cover	1	105 +	65915	Bracket	1
62		Setscrew 1/4" UNC. x 1/2" long, Hex. Head	2	106 +		Flat Washer 3/8" dia.	1
63	65559	Cover Bracket	1	107 +		Splitpin 3/32" dia. x 3/4" long	1
64	65936	Tube Support	2	NOTE:- Parts marked + are required for Dog Clutch Drive only.			

JACKSHAFT ASSEMBLY

108	22031	Special Nut	1
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E SERIES PARTS LIST

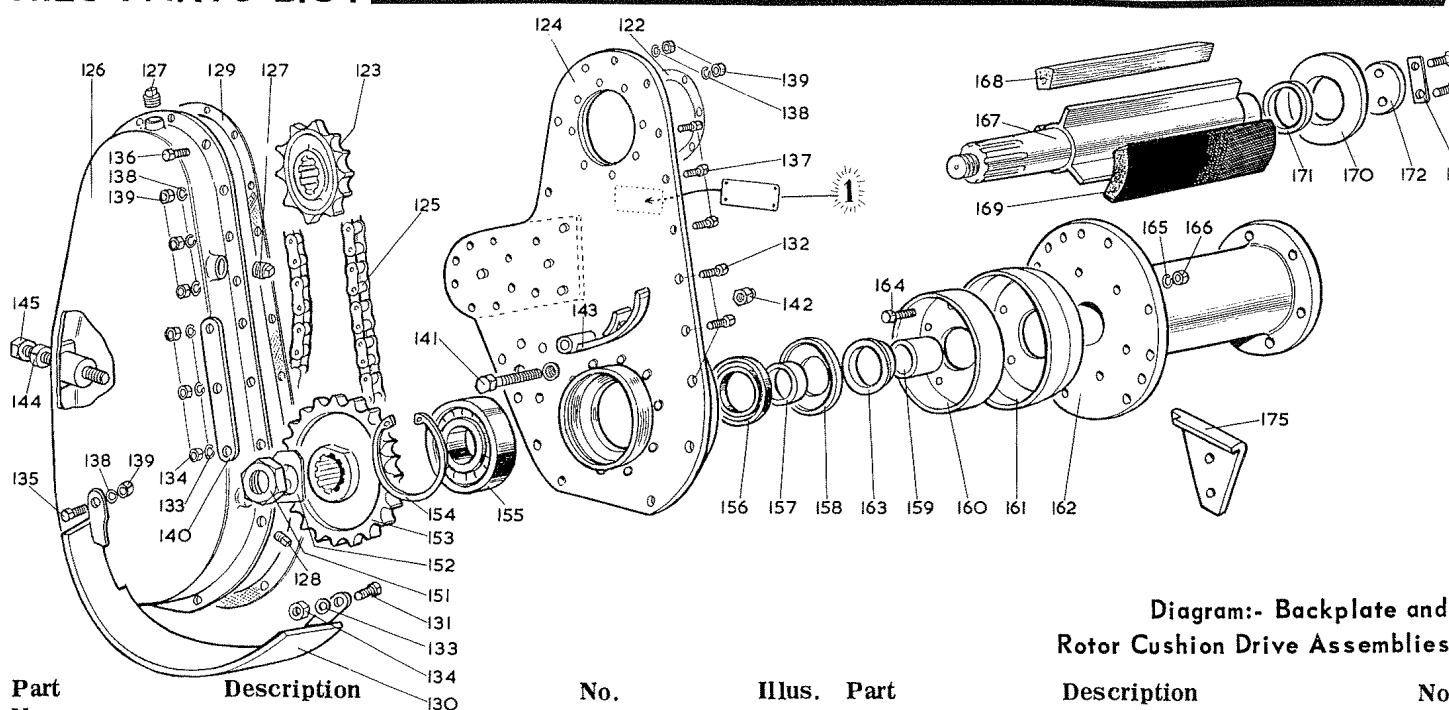


Diagram:- Backplate and Rotor Cushion Drive Assemblies

Illus. No.	Part No.	Description	No. off
109	22034	Tab Washer 650067	1
110	65515	Crownwheel	1
111	25254216	Bearing - Timkin Type TS. Cone 29585 - Cup 29520	1
112		- Oilseal - Pioneer Type 11P. 350.250.50 2.1/2" i.d. x 3.1/2" o.d. x 1/2" wide	1
113	65925	Jackshaft	1
114	65926	Jackshaft Housing	1
113	67954	Jackshaft	1
114	67955	Jackshaft Housing	1
113	65579	Jackshaft	1
114	65580	Jackshaft Housing	1
113	65775	Jackshaft	1
114	65774	Jackshaft Housing	1
115		Pressure Relief Valve 1/8" BSP. Tec. Type OA.6862	1
116	251942142	Bearing - Timkin Type TS. Cone 536 - Cup 532X.	1
117	48486	Special Washer	1
118	61079	Special Nut	1
119		Splitpin 1/8" dia. x 2" long	1
120		Bolt 3/8" UNF. x 1.1/4" long	8
121		Spring Washer 3/8" dia.	8

BACKPLATE ASSEMBLY

122	65967	Gasket	1
123	65584	Jackshaft Sprocket 11T.	1
124	65630	Backplate Rivet Assembly comprising:-	1
	65631	Backplate	1
	65635	Rotor Bearing Housing	1
		Rivet 3/8" dia. x 1" long, Pan Head	10
	65636	Dust Cover	1
	52878	Thickening Pad	1
		Rivet 3/8" dia. x 7/8" long, Pan Head	3

Illus. No.	Part No.	Description	No. off
125	54482	Chain Assembly - Morse comprising:-	1
	54471	Inner Link	19
	64472	Outer Link	Alternative 18
	54473	Connecting Link	fitments 1
125	60483	Chain Assembly - Reynolds 185977 - comprising:-	1
	60485	Inner Link	19
	60486	Outer Link	18
	60487	Connecting Link	1
126	61814	Chaincase	1
127		Oil Filler and Chain Tensioner Plug 3/4" BSP. Sq. Head	2
128		Oil Level Plug 1/8" BSP. Sq. Head	1
129	61816	Gasket	1
130	61818	Ground Skid	1
131		Bolt 1/2" UNF. x 1.1/4" long	1
132		Bolt 1/2" UNF. x 1.3/4" long	3
133		Shakeproof Washer 1/2" dia. Internal	4
134		Nut 1/2" UNF.	4
135		Bolt 3/8" UNF. x 1.1/2" long	3
136		Bolt 3/8" UNF. x 1" long	9
137		Bolt 3/8" UNF. x 1.1/4" long	3
138		Spring Washer 3/8" dia.	15
139		Nut 3/8" UNF.	15
140	61817	Stiffener	1
141		Pivot Bolt 5/8" UNF. x 3.1/4" long	1
142		Nut 5/8" UNF. Philidas Type QUFN.	1
143	24853	Chainskid	1
144		Locknut 3/4" BSW.	1
145	24833	Adjusting Screw	1
146 - 150		not allocated	

ROTOR CUSHION DRIVE ASSEMBLY

151	56801	Special Nut	1
152	65672	Tab Washer	1

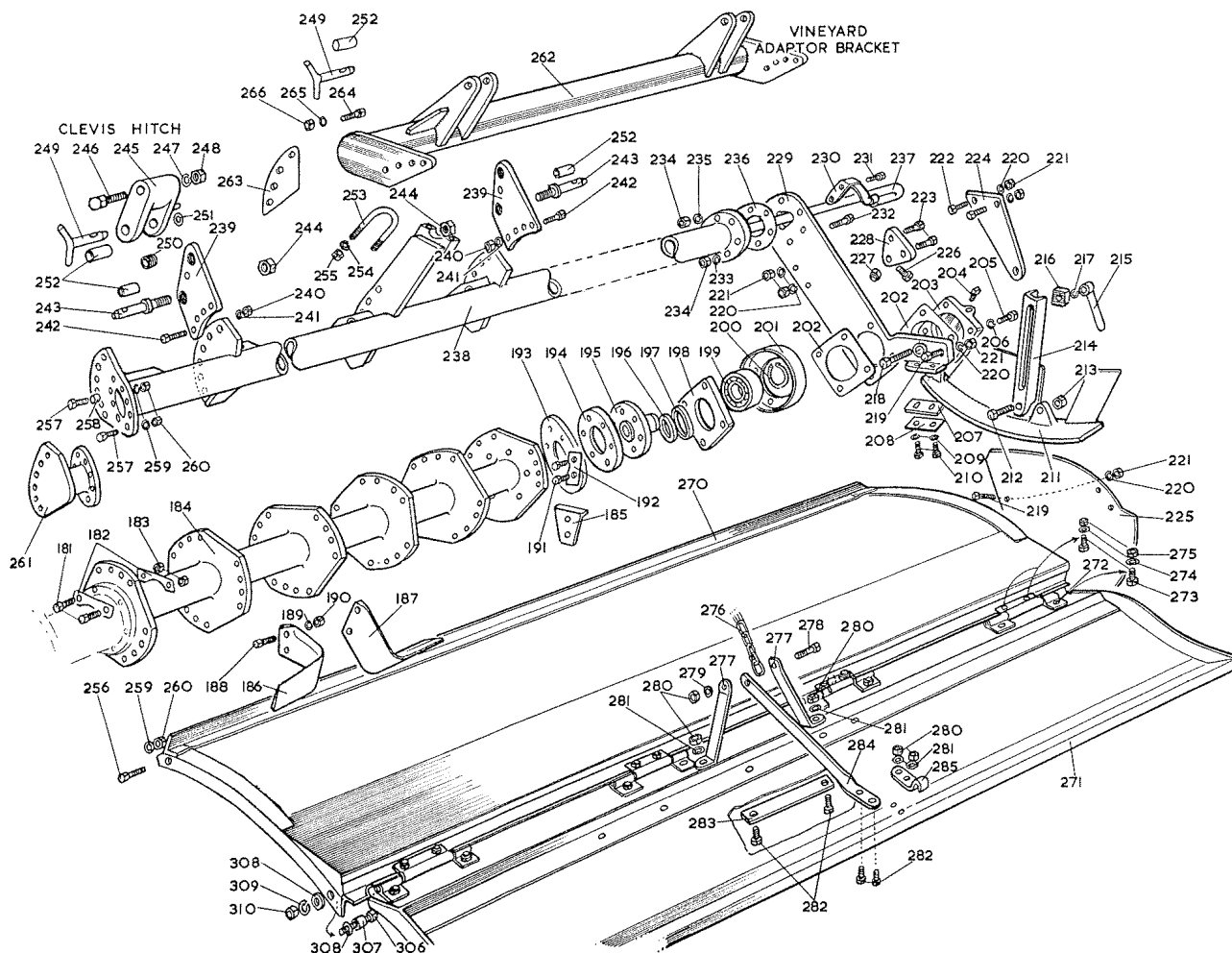


Diagram:- Rotor, Stub Axle, Support Arm, Staytube, Mounting Brackets, Shield Assemblies

Illus. No.	Part No.	Description	No. off
153	65671	Rotor Drive Sprocket	1
154		Circlip 5" dia. Internal <i>208001240</i>	1
155	BRM.2.1/4	Ballbearing 2.1/4" i.d. x 5" o.d. x 1.1/4" wide <i>252250121</i>	1
156	<i>263727651</i>	Oilseal - Superseal <i>795036</i> . 2.3/4" i.d. x 3.3/4" o.d. x 5/8" wide	1
157	67908	Rotor Shaft Spacer	1
158	67907	Small Dust Cover	1
159	67909	Spacer - Long	1
160	65692	Inner Dust Cover- 308 309 310	1
161	65693	Outer Dust Cover 308 309 310	1
	<u>65684</u>	(Rotor Drive Body Sub Assembly (comprising:-	1
162	65685	(Rotor Drive Body	1
163	65690	(Bush <i>UDGRET</i>	1
164		Bolt 5/16" UNC. x 1.1/4" long	6
165		Spring Washer 5/16" dia.	6
166		Nut 5/16" UNC.	6
167	65681	Rotor Drive Shaft	1
168	65673	Return Cushion	3
169	65691	Rubber Cushion	3
	65676	(End Flange Sub Assembly (comprising:-	1

Illus. No.	Part No.	Description	No. off
170	65677	(End Flange	1
171	65678	(Bush	1
172	65675	End Washer	1
173	65918	Tab Washer	1
174		Setscrew 1/2" UNC. x 1.1/4" long, Hex. Head	2
175	66869	Shearing Blade L.H.	1
176 - 180		not allocated	

ROTOR ASSEMBLY

181	3903	Special Bolt	6
182	65964	Tab Washer	6
183		Nut 1/2" UNF.	6
184	67912	Rotor - 40" Model	1
	67917	Rotor - 50" Model	1
	67919	Rotor - 60" Model	1
	67921	Rotor - 70" Model	1
185	66868	Shearing Blade R.H.	1
			40" 50" 60" 70"
186 + 63592	Universal Blade L.H.	} Power	12 15 18 21
187 + 63593	Universal Blade R.H.		12 15 18 21
+ 9930	Speed Blade L.H.	} Heavy Duty	12 15 18 21
+ 9931	Speed Blade R.H.		12 15 18 21

E SERIES PARTS LIST

Illus. No.	Part No.	Description	No. off
		40" 50" 60" 70"	
+	9948	Speed Blade L.H. }	12 15 18 21
+	9949	Speed Blade R.H. }	12 15 18 21
+	5978	Long Shank Blade L.H. } Power	12 15 18 21
+	5979	Long Shank Blade R.H. }	12 15 18 21
+	51587	Coffee Blade	12 15 18 21
188	3903	Blade Bolt	52 64 76 88
189		Spring Washer 1/2" dia.	52 64 76 88
190	52053	Special Nut	52 64 76 88

NOTE:- 3 Blades are fitted on End Flange of Cushion Drive. The Blade requirements as listed are for 6 Blade Rotor.
+ = Alternatives

HEAVY DUTY ROTOR ASSEMBLY - ALTERNATIVE FITMENT

67987	Rotor - 40" Model	1
67989	Rotor - 50" Model	1
67947	Rotor - 60" Model	1
67949	Rotor - 70" Model	1
	40" 50" 60" 70"	
+	9919 Universal Blade L.H.) Power	12 15 18 21
+	9920 Universal Blade R.H.)	12 15 18 21
+	9950 Speed Blade L.H.) Heavy	12 15 18 21
+	9951 Speed Blade R.H.) Duty	12 15 18 21
67556	Blade Bolt	48 60 72 84
	Shakeproof Washer 5/8" dia.	
	Internal	48 60 72 84
67557	Special High Nut	48 60 72 84

NOTE:- 3 Blades are fitted on End Flange of Cushion Drive. Shearing Blades - Illus. No's. 175 and 185 and 4 off each Illus. No's.
188 - 189 & 190 required.

ROTOR CUSHION DRIVE ASSEMBLY - for HEAVY DUTY ROTOR

All parts as Standard Cushion Drive except

67996	(Rotor Drive Body Sub Assembly (comprising:-	1
67981	(Rotor Drive Body	1
65690	(Bush	1

ROTOR STUB AXLE ASSEMBLY

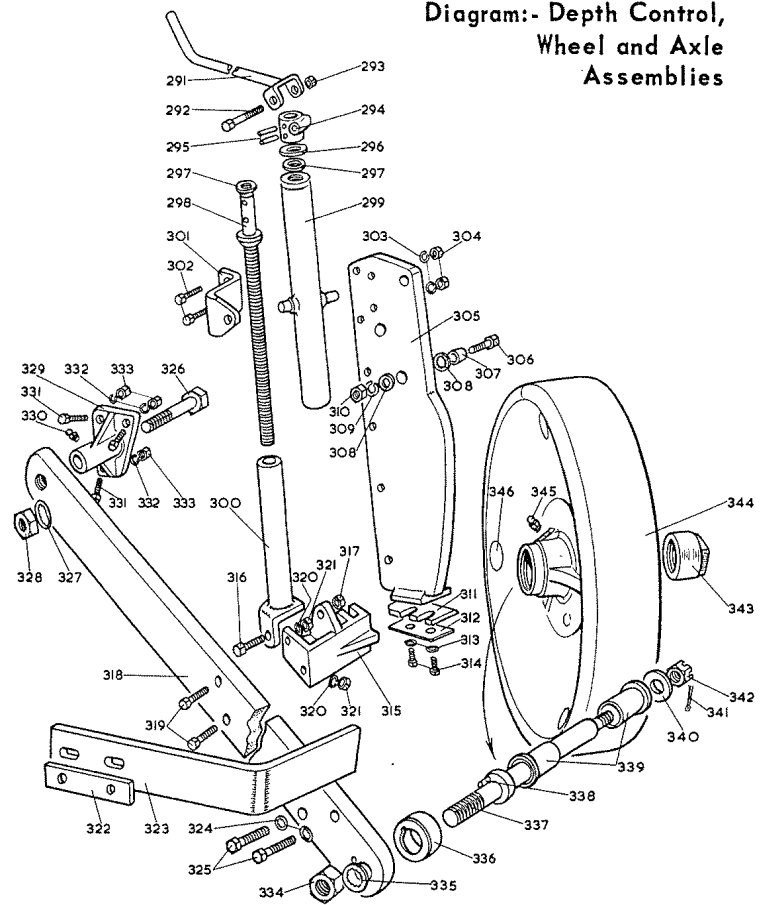
191	Bolt 1/2" UNC. x 1.1/8" long	6
192	65706 Tab Washer	3
193	66221 Dust Cover	1
194	65703 Inner Dust Cover	1
195	67930 Stub Axle	1
196	67932 Sleeve	1
197	263022043 Oilseal - Pioneer 13P. 300.225.38 - 3"o.d. x 2.1/4" i.d. x 3/8" wide	1
198	67931 Bearing Housing	1
199	BRM.1.5/8 Ballbearing 1.5/8" i.d. x 4"o.d. x 2.5/16" wide 251646091	1
200	208002120 Circlip 1.5/8" dia. External	1
201	65704 Outer Dust Cover = adv.D-210	1
202	57545 Packing Shim	As req'd.
203	57541 End Cover	1
204	Grease Nipple 1/8" BSP. Tec. NA.5704	1

Illus. No.	Part No.	Description	No. off
205		Bolt 1/2" UNF. x 1.1/2" long	
206		Shakeproof Washer 1/2" dia. Internal	
		SUPPORT ARM ASSEMBLY	
207	66223	R.H. Cutter Blade	
208	5807	Backing Strip	
209		Shakeproof Washer 3/8" dia. Internal	
210		Bolt 3/8" UNC. x 7/8" long	
211	5926	R.H. Skid - Standard fitment - Export only	
	67608	R.H. Skid - standard fitment - Home Market only	
	50881	R.H. Skid - Export only	
	67609	R.H. Skid - Home Market only	
	50689	Sole Plate - Standard fitment	
	53788	Sole Plate - Alternative fitment for soft ground.	Alternative fitment.
	G.922	Special Bolt	
		Spring Washer 7/16" dia.	
		Nut 7/16" BSF.	
212		Bolt, Adjusting Bar-Skid 1/2" UNF. x 1.1/4" long	
213		Locknut 1/2" UNF.	
214	50476	Adjusting Bar	
215	54228	Adjusting Bar Lever	
216	50477	Adjusting Stop	
217		Spring Washer 1/2" dia.	
218		Bolt 1/2" UNC. x 2.1/2" long	
219		Bolt, Support-Support Arm 1/2" UNF. x 1.1/2" long	
220		Spring Washer 1/2" dia.	
221		Nut 1/2" UNF.	
222		Bolt, Shield-Support 1/2" UNF. x 1.1/4" long	
223		Bolt, Pivot Lug-Support Arm 1/2" UNF. x 1.3/4" long	
224	65624	R.H. Shield Support - Export only	
225	67607	Side Shield	
219		Bolt 1/2" UNF. x 1.1/2" long	Home market only
220		Spring Washer 1/2" dia.	
221		Nut 1/2" UNF.	
226		Bolt, Pivot Lug-Skid 1/2" UNF. x 1.1/2" long	
227		Nut 1/2" UNF. Philidas Type NUFI.	
228	5927	Pivot Lug	
229	65621	Support Arm	
230	65626	(Spring Rivet Assembly (comprising:-	
	65627	(Spring	
	65628	(Spring Holder	
		(Rivet 1/8" dia. x 3/8" long, Round Head	
		STAYTUBE ASSEMBLY	
231		Bolt, Staytube - Support Arm 1/2" UNF. x 1.3/4" long	5
232		Bolt, Staytube-Support Arm-Shield 1/2" UNF. x 2.1/4" long	1
233		Spring Washer 1/2" dia.	4
234		Nut 1/2" UNF.	6
235		Shakeproof Washer 1/2" dia. Internal	2
236	66226	Spacer	As req'd.
237	3904A	Blade Setting Bar	1
238	65929	Staytube - 40" EMU.	1
	67961	Staytube - 50" EMU.	1
	67974	Staytube - 60" EMU.	1

E SERIES PARTS LIST

Illus. No.	Part No.	Description	No. off
	67979	Staytube - 70" EMU.	1
239	68070	Mounting Plate	2
240		Nut 5/8" UNF.	8
241		Spring Washer 5/8" dia.	8
242		Bolt, Mounting Plate 5/8" UNF. x 2.1/4" long	8
243	68071	Mounting Pin Standard	Alternatives: 2
	68072	Mounting Pin - Heavy Duty -	2
244	34800	Special Nut	2
245	65613	Clevis	2
246		Bolt 7/8" UNF. x 5" long	} Optional Extra 2
247		Spring Washer 7/8" dia.	
248		Nut 7/8" UNF.	
249	65616	Clevis Mounting Pin	
250	68074	Mounting Plate Sleeve	4
251		Flat Washer 7/8" dia.	2
252	54463	Sleeve - for Category 2 Tractors only 40" & 50" / 60" & 70"	2
253	65619	'U' Bolt	1
254		Spring Washer 5/8" dia.	2
255		Nut 5/8" UNF.	2
256		Bolt, Staytube-Backplate-Shield 1/2" UNF. x 2" long	1
256		Bolt, Staytube-Backplate-Shield-Extension Tube 1/2" UNF. x 2.1/2" long for 40" EMU. only	1
257		Bolt, Staytube - Backplate 1/2" UNF. x 1.3/4" long 50" = 6/ 60" + 70" =	7
		Bolt 5/8" UNF. x 2" long.	} 50 EMU.
		Spring Washer 5/8" dia.	
		Nut 5/8" UNF.	
257		Bolt, Staytube-Backplate-Extension Tube 1/2" UNF. x 2.1/4" long - 40" EMU. only	7
258	54288	Spacer - not required for 50" EMU.	1
259		Spring Washer 1/2" dia. 50" = 7	8
260		Nut 1/2" UNF. 50" = 7	8
261	65934	Extension Tube - for 40" EMU. only	1
MOUNTING BRACKETS - Optional extra for Vineyard Models			
262	67784	Mounting Bracket	1
263	67789	Shim	2
264		Bolt 5/8" UNF. x 2" long	} Ferguson 35, Dexta etc.
265		Spring Washer 5/8" dia.	
266		Nut 5/8" UNF.	
262	67750	Mounting Bracket	1
263	66289	Shim	2
264		Bolt 5/8" UNF. x 2" long	} David Brown 880
265		Spring Washer 5/8" dia.	
266		Nut 5/8" UNF.	
249	65616	Mounting Pin	2
267 - 269 not allocated.			
SHIELD ASSEMBLY			
270	53707	Shield 40" Model	1
	54252	Shield 50" Model	1
	54301	Shield 60" Model	1
	54359	Shield 70" Model	1
271	65939	Trailing Board 40" Model	1
	67963	Trailing Board 50" Model	1
	65638	Trailing Board 60" Model	1
	65737	Trailing Board 70" Model	1

Kat I
Kat II



Illus. No.	Part No.	Description	No. off
			40" Model
272	50724	Hinge	3 4
273		Bolt 1/2" UNF. x 1.1/4" long	12 16
274		Shakeproof Washer 1/2" dia. Internal	12 16
275		Nut 1/2" UNF.	12 16
276	65648	Chain	1
277	65644	Front Support	2
278		Bolt 3/8" UNC. x 1.3/4" long	1
279		Spring Washer 3/8" dia.	1
280		Nut 3/8" UNC.	5
281		Shakeproof Washer 3/8" dia. Internal	4
282		Bolt 3/8" UNC. x 1.1/4" long	4
283	65647	Stiffening Strip	1
284	65645	Centre Stay	1
285	65646	Hook	1
286 - 290	not allocated.		
DEPTH CONTROL ASSEMBLY			
291	3448	Handle	1
292		Bolt, Handle-Pivot Block 3/8" UNC. x 2.1/4" long	1
293		Locknut 3/8" UNC.	1
294	55481	Handle Block	1
295		Grover Pin 1/4" dia. x 1.1/4" long	2
296		Flat Washer 3/4" dia.	1
297	65650	Thrust Washer	2
298	65654	Screw	1
299	65657	Outer Tube	1
300	65651	Inner Tube	1
301	65661	Trunnion Support Cranked	1

E SERIES PARTS LIST

Illus. No.	Part No.	Description	No. off
302		Bolt 3/8" UNC. x 1.1/2" long	2
303		Spring Washer 3/8" dia.	2
304		Nut 3/8" UNC.	2
305	66219	Anchor Plate	1
306		Bolt, Anchor Plate-Shield 1/2" UNC. x 2" long	1
307 +	50994	Spacer	1
308		Flat Washer 1/2" dia.	As req'd.
309		Spring Washer 1/2" dia.	1
310		Nut 1/2" UNC.	1
311	66225	L.H. Cutter Blade	1
312	3678	Backing Strip	1
313		Shakeproof Washer 3/8" dia. Internal	2
314		Setscrew 3/8" UNC. x 3/4" long, Hex. Head	2
315	62503	Clevis Bracket	1
316		Bolt, Inner Tube-Clevis Bracket 5/8" UNC. x 1.1/2" long	1
317		Locknut 5/8" UNC.	1
318	65665	Wheel Arm	1
319		Bolt, Wheel Arm-Clevis Bracket 1/2" UNC. 2.1/4" long	2
320		Spring Washer 1/2" dia.	2
321		Nut 1/2" UNC.	2
322	66073	Plate	1
323	65664	Wheel Scraper	1
324		Shakeproof Washer 1/2" dia. Internal	2
325		Bolt, Wheel Scraper-Wheel Arm 1/2" UNC. x 1.1/2" long	2
326		Bolt 1" UNC. x 5.1/4" long, Cadmium Plated	1
327		Shakeproof Washer 1" dia. Internal	1
328		Locknut 1" UNC.	1
329	62833	Pivot Plate	1
330		Grease Nipple 1/4" BSF. Nubrex N.7/A.	1
331		Bolt, Pivot Plate-Backplate 1/2" UNC. x 1.1/2" long	3
332		Spring Washer 1/2" dia.	3
333		Nut 1/2" UNC.	3

NOTE:- + for spares supply 62843 Spacer plus 1/2" Flat Washer

AXLE ASSEMBLY

334		Nut 1" UNC.	1
335		Shakeproof Washer 1" dia. Internal	1
336	65667	Dust Cover	1
337	65668	Axle	1
338	3998	Nib	1
339	3701	Bush	2
340	3703	Washer	1
341		Splitpin 3/32" dia. x 1" long	1
342		Nut 1/2" Slotted <i>UNC</i>	1
343	3706	Cap	1
	52389	Depth Control Wheel Assembly comprising :-	1
344	51808	Depth Control Wheel	1
345		Grease Nipple 1/8" BSP. Tec. NA.5704	1
346	52441	Welsh Plug	3
347 -	350	not allocated	

ALTERNATIVE PARTS FOR DEPTH CONTROL SKID.

351	54496	Skid L.H.	1
352	50669	Sole Plate L.H.	1
	53788	Sole Plate - Alternative fitment for soft ground	1

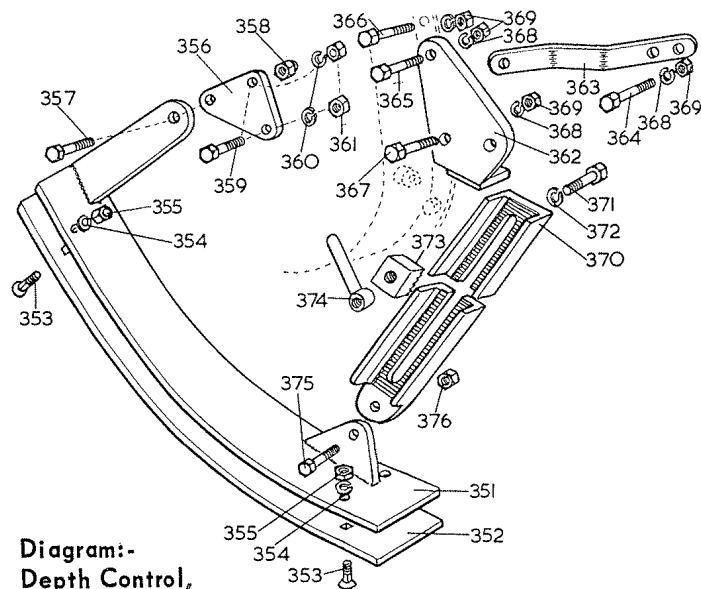


Diagram:-
Depth Control,
Skid Assembly

Illus. No.	Part No.	Description	No off
353	G.922	Special Bolt	4
354		Spring Washer 7/16" dia.	4
355		Nut 7/16" B.S.F.	4
356	5927	Pivot Lug	1
357		Bolt, Skid to Pivot Lug 1/2" UNF. x 1.1/2" long	1
358		Nut 1/2" UNF. Philidas type NUF1.	1
359		Bolt, Pivot Lug to Backplate 1/2" UNF. x 1.1/2" long	2
360		Spring Washer 1/2" dia.	2
361		Nut 1/2" UNF.	2
362	66423	Anchor Plate	1
363	53668	Shield Support L.H.	1
364		Bolt, Shield Support to Shield 1/2" UNF. x 1.1/4" long	1
365		Bolt, Anchor Plate, Shield Support to Backplate - 1/2" UNF. x 2" long	1
366		Bolt, Backplate to Chaincase 1/2" UNF. x 1.1/4" long	2
367		Bolt, Anchor Plate to Backplate 1/2" UNF. x 1.1/2" long	1
368		Spring Washer 1/2" dia.	5
369		Nut 1/2" UNF.	5
370	50476	Adjusting Bar	1
371		Bolt, Adjusting Bar to Anchor Plate 1/2" UNC. x 2.1/4" long	1
372		Spring Washer 1/2" dia. double coil	1
373	50477	Adjusting Stop	1
374	54228	Adjusting Bar Lever	1
375		Bolt, Adjusting Bar to Skid 1/2" UNF. x 1.1/4" long	1
376		Locknut 1/2" UNF.	1
377 -	410	not allocated	

CROP GUARDS - OPTIONAL EXTRA

66512	L.H. Crop Shield Assembly comprising:-		As req'd.
411	66518	L.H. Shield	1
413	66235	Clamp	2
414		Bolt 3/8" UNC. x 1.1/2" long	4
415		Spring Washer 3/8" dia.	4

E SERIES PARTS LIST

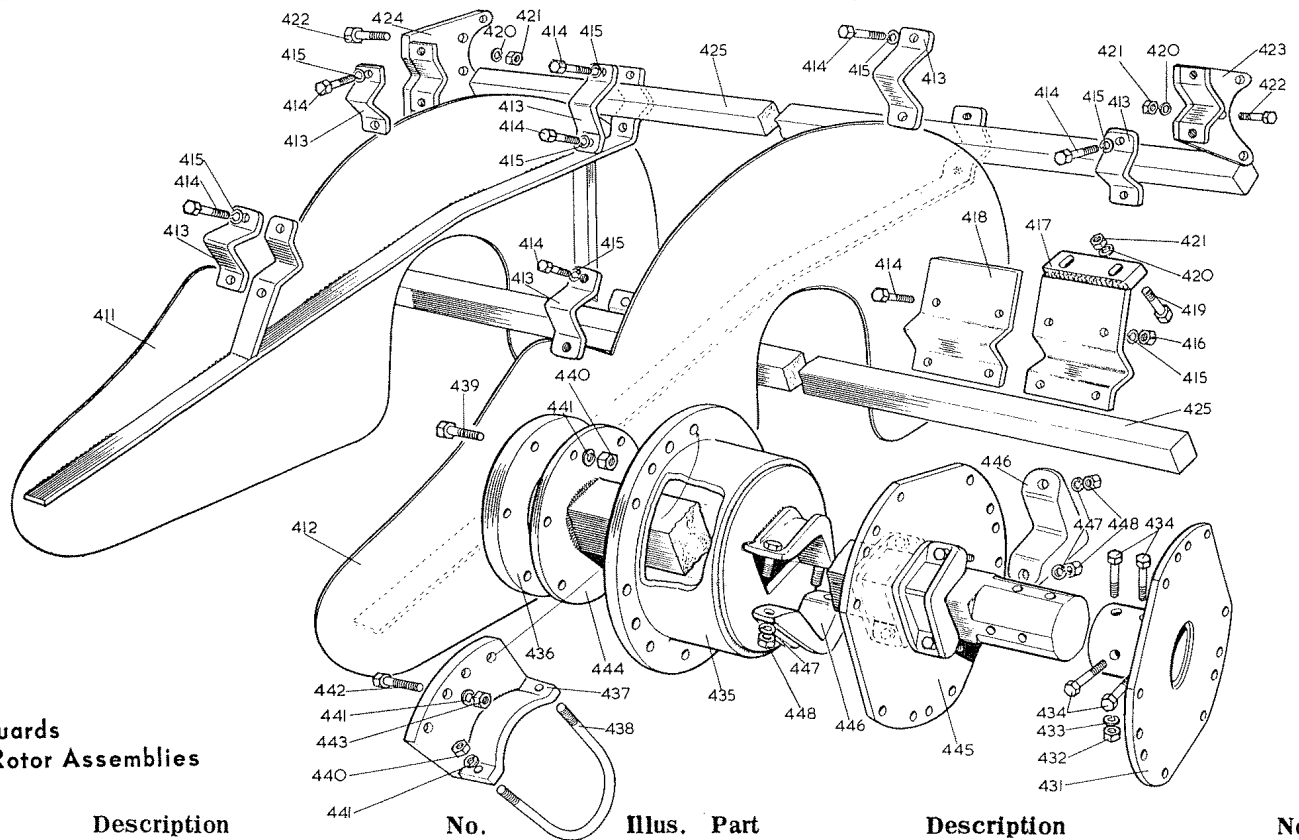


Diagram:- Crop Guards
and Slip Flange Rotor Assemblies

Illus. No.	Part No.	Description	No. off	Illus. No.	Part No.	Description	No. off
	66511	R.H. Crop Shield Assembly comprising:-	As req'd.	440		Nut 1/2" UNC.	8
412	66517	R.H. Shield	1	441		Spring Washer 1/2" dia.	12
413	66235	Clamp	2	442	50058	Special Bolt	4
414		Bolt 3/8" UNC. x 1.1/2" long	4	443	52053	Special Nut	4
415		Spring Washer 3/8" dia.	4	444	66461	Rotor Shaft 50" Model	1
416	66235	Clamp	2	66472		Rotor Shaft 60" Model	1
417		Bolt - Clamp 3/8" UNC. x 1.1/2" long	16	66479		Rotor Shaft 70" Model	1
418		Spring Washer 3/8" dia.	16			50" 60" 70"	
419		Nut 3/8" UNC.	12	445	67791	Centre Flange	3 4 5
420	66524	Bracket	3	446	67790	Clamp	7 9 11
421	66528	Clamp	3	447		Spring Washer 1/2" dia.	14 18 22
422		Bolt - Bracket to Shield 1/2" UNC. x 1.1/2" long	6	448		Nut 1/2" UNC.	14 18 22
423		Spring Washer 1/2" dia.	13	449 - 450		not allocated	
424		Nut 1/2" UNC.	13			PICKTINE ROTOR	
425		Bolt - Support Plate to Staytube 1/2" UNC. x 2.1/4" long	7	451	67923	Rotor 40" Model	1
426	66513	Support Plate R.H.	1	67927		Rotor 50" Model	1
427	66514	Support Plate L.H.	1	67928		Rotor 60" Model	1
428	66547	Support Bar 50" Model	2	67929		Rotor 70" Model	1
429	66548	Support Bar 60" Model	2			40" 50" 60" 70"	
430	66549	Support Bar 70" Model	2	452	51312	Picktime	24 27 33 39
431 - 430		not allocated		453	3906A	Lucerne Tine	24 27 33 39
				3721		Stone Blade	24 27 33 39
				455	50370	Special Bolt	48 54 66 78
				456		Spring Washer 1/2" dia.	48 54 66 78
				457	52053	Special Nut	48 54 66 78
				458 - 470		not allocated	
						30" EXTENSION KIT	
				471	67382	Staytube	1
				472		Bolt 1/2" UNF. x 1.3/4" long	5
				473		Bolt 1/2" UNF. x 2.1/2" long	1
				474		Spring Washer 1/2" dia.	6
				475		Nut 1/2" UNF.	6
				476	67933	Rotor	1
				68704		Clamp Flange	1
						Bolt 1/2" unc x 2 1/4" long	2
						Shakeproof Washer 1/2" DIA Internal.	2

E SERIES PARTS LIST

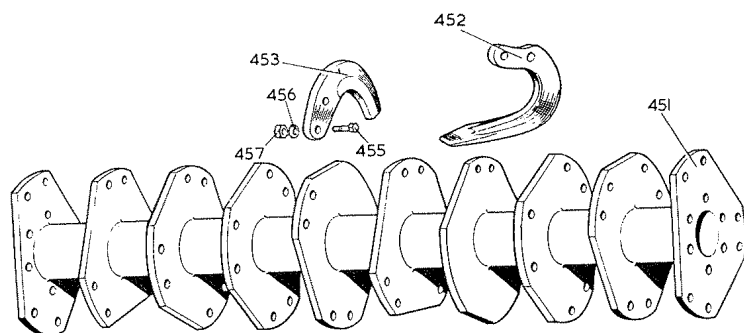


Diagram:- Picktime
Rotor Assembly

Illus. No.	Part No.	Description	No. off
477		Bolt 1/2" UNF. x 6" long	8
478		Spring Washer 1/2" dia.	6
479	52053	Special High Nut	6
480 +	63592	Universal Blade L.H. }	9
481 +	63593	Universal Blade R.H. }	9
480 +	9948	Speed Blade L.H. }	9
481 +	9949	Speed Blade R.H. }	9
480 +	9930	Speed Blade L.H.) Heavy	9
481 +	9931	Speed Blade R.H.) Duty	9
480 +	5978	Long Shank Blade L.H. }	9
481 +	5979	Long Shank Blade R.H. }	9
482	3903	Special Blade Bolt	36
483		Spring Washer 1/2" dia.	36
484	52053	Special High Nut	36
485	67387	Main Shield	1
486		Bolt 1/2" UNF. x 1.1/4" long	2
487		Spring Washer 1/2" dia.	2
488		Nut 1/2" UNF.	2
489	67388	Trailing Board	1
490		Bolt 3/8" UNF. x 1" long	3
491		Spring Washer 3/8" dia.	3
492		Nut 3/8" UNF.	3
493	50724	Hinge	2
494		Bolt 1/2" UNF. x 1.1/4" long	8
495		Shakeproof Washer 1/2" dia. Internal	8
496		Nut 1/2" UNF.	8
	50881	Sole Plate Skid - Export only	1
	67609	Sole Plate Skid - Home Market only	1
	50669	Sole Plate	1
	G.922	Bolt	4
		Spring Washer 7/16" dia.	4
		Nut 7/16" BSF.	4
497 - 500		Not allocated	
NOTE :- + = Alternatives			

CLUTCH ASSEMBLY - OPTIONAL EXTRA

501	Nut 1/2" UNF.	6
502	Flat Washer 1/2" dia.	6

Illus. No.	Part No.	Description
503	G.802	Spring
504	52726	Inner Cover
505	52744	Clutch Plate
506	52743	Friction Disc - Lipped
507	67239	Clutch Disc
508	52741	Friction Disc.
509	52742	Wearing Disc
510	52745	Pressure Plate
67958		Universal Joint Assembly - for use with Clutch Assembly Illus. No's. 2 to 21 inclusive.
67241		Special Bolt - required for End Covers Shake Proof Washer 1/2" DIA.

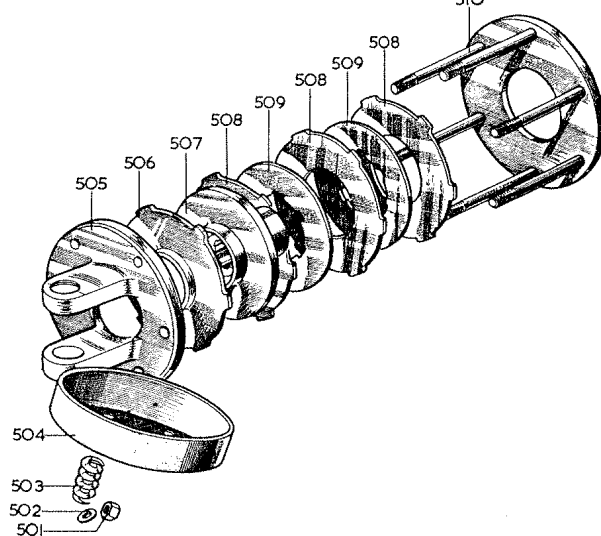


Diagram:-
Clutch Assembly

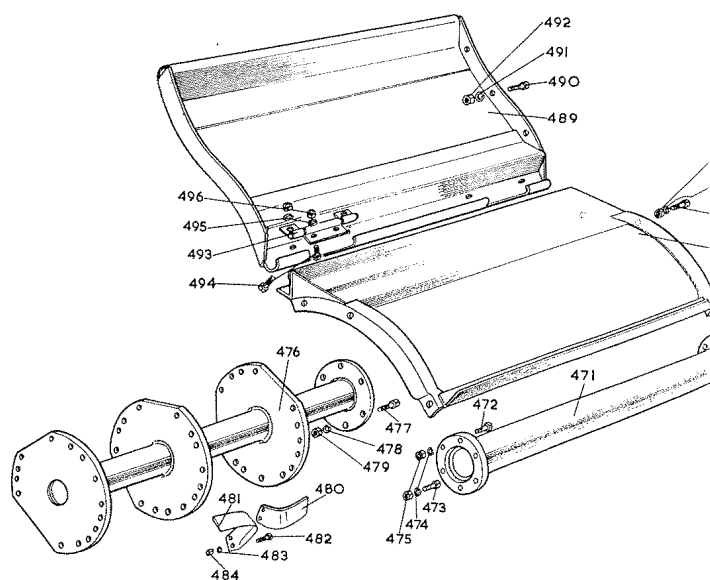


Diagram:- 30 Roto
Extension Kit Assembly