

Stanhay 985

Operators and Parts Manual

TO THE PURCHASER

Your new STANHAY 985 PRECISION SPACING DRILL is accurate and reliable for planting most types of seed. Given proper care and correct operation it will give you long and efficient service.

Widely diverse soil types and conditions make this Operators Manual merely a guide to improved machine performance. We suggest the inexperienced drill operator seeks assistance on mechanical problems from his Stanhay Webb dealer or distributor. Every effort has been made to include all relevant operational functions in this manual but no responsibility is accepted for errors or omissions. Even the most skilled operator should familiarise himself with the contents of this manual and refer regularly to the Operators Check List.

RECORD DETAILS OF YOUR MACHINE IN THE SPACE PROVIDED BELOW

Model : Stanhay 985 Precision Seed Drill
Serial No :
Date Purchased :

IMPORTANT NOTE

Transporting the drill

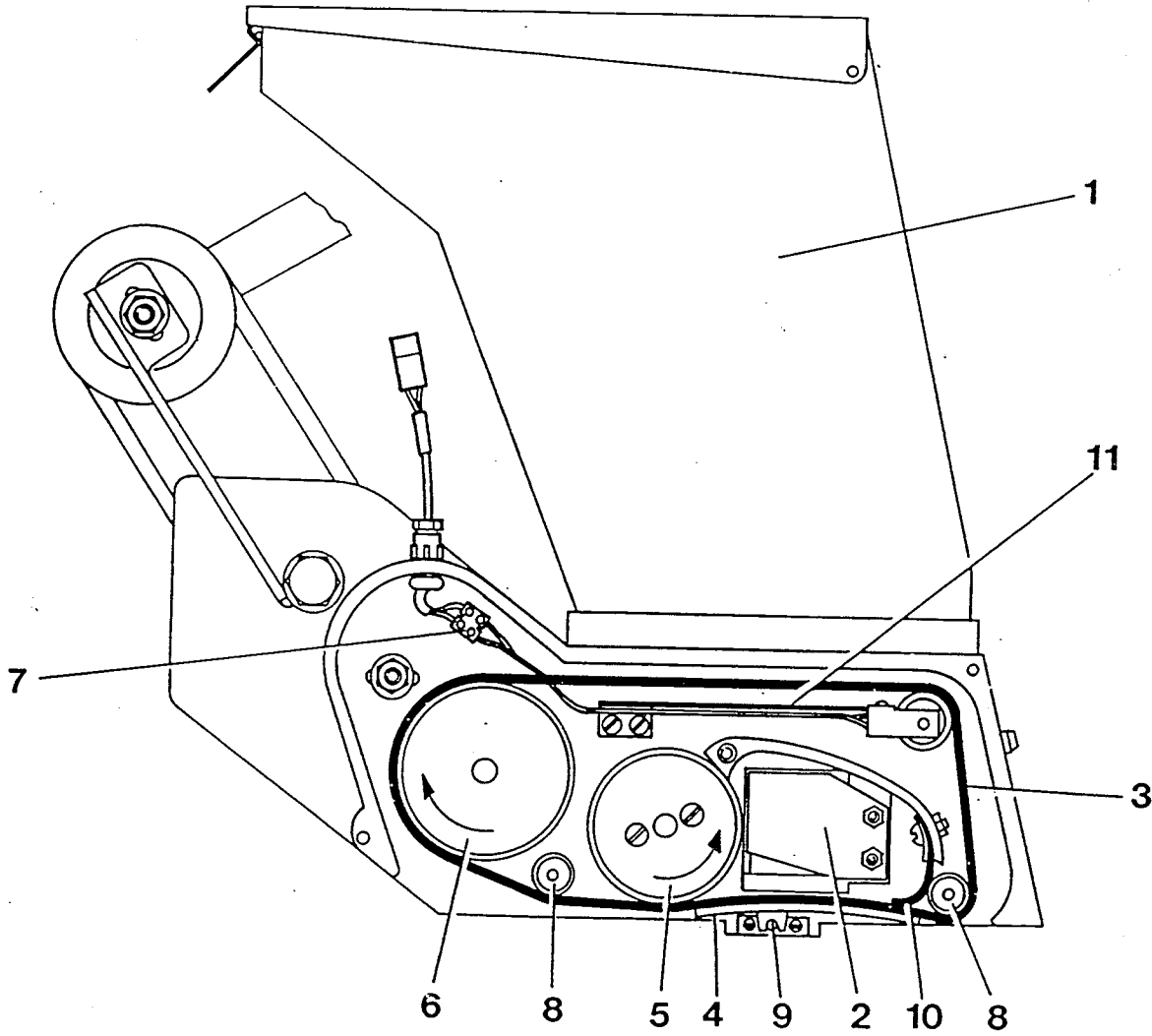
When transporting the seed drill on public roads, it is the responsibility of the operator to ensure prevailing Road Traffic Regulations are strictly adhered to.

ALL ENQUIRIES:

STANHAY WEBB LIMITED
Exning
Newmarket
Suffolk.
CB8 7HD
England.

Tel. : 0638 577206
Fax : 0638 578359

FIG. 1



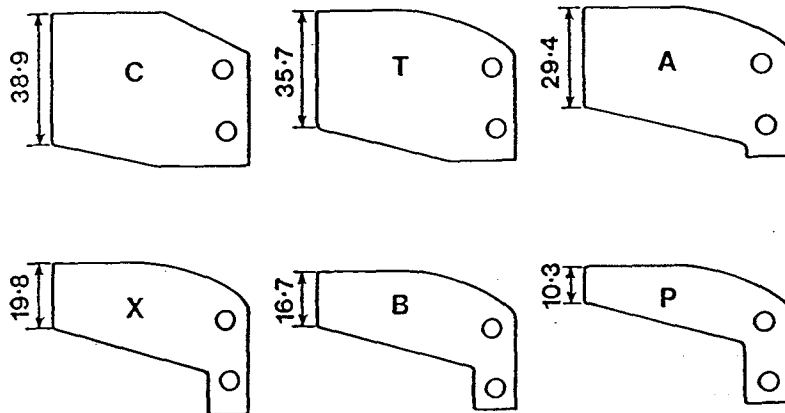
Hopper (Fig. 1 ref.1)

The hopper has a capacity of 6 litres (10.5 pints). One hopper is monitored electronically to give an audible and visual warning to the Operator when the seed level is low. The hopper lid is fitted with a rubber seal and held shut by means of a spring clip.

Seed Choke (Fig. 1 ref.2)

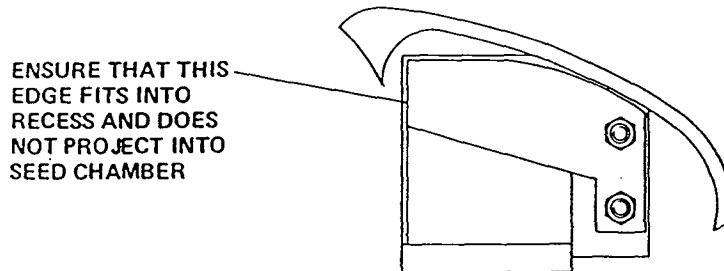
The purpose of the choke is to control the amount of seed in the seed chamber. For optimum performance the amount of seed should be such that when working at normal operating speed, the seed belt exposed in the seed chamber is JUST covered. If the chamber is allowed to become too full, there will be excessive wear on the repeller tyre and damage to the seed. If the choke restricts the inlet too much, the flow of seed will be interrupted. It is important therefore to fit the correct size, see Fig. 2 below and SEED SETTING GUIDE - pages 15-20. Chokes are stamped with an identification letter.

Fig.2



When fitting the choke, care must be taken that it fits flush into the recess provided, and does not project into the seed chamber, or it will trap seeds and may damage the repeller tyre. See Fig. 3.

Fig.3



Seed Belt (Fig.1 ref.3)

There are various types of seed belt available, and the selection depends on the size and type of seed to be planted, and the number of lines of seed to be metered from each unit.

Some pelleted seed has volatile chemicals on the pelleting material, which is contained by coating the pellet with a shiny polymer. This polymer reacts adversely with organic rubber, and to overcome potential problems, "Black" belts manufactured from a special synthetic material, should be used.

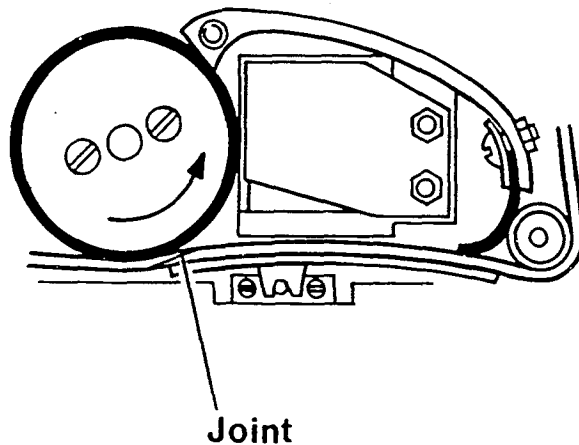
Belt Type:	Recommended for:	Do NOT use for:
Thin Plastic	Small seeds 1.0mm thick and less, e.g. natural carrot, lettuce etc.	
Plain Rubber	Small seeds 1.00mm - 3.00mm thick. (Seeds over 2.5mm thick require grooved spring base.)	Polymer coated seed
Ribbed Rubber	Seeds 3.0mm thick and greater. (Grooved spring base required)	Polymer coated seed
Plain "Black"	Polymer coated seeds as specified for Plain Rubber.	
Ribbed "Black"	Polymer coated seeds as specified for Ribbed Rubber.	

All belts can be punched with one, two or three lines of holes, to suit the required drilling pattern; the maximum number of holes in each line being determined by the hole size. (See chart - page 14, and Seed Setting Guide, pages 15 - 20.)

Rubber and "Black" Belts must be fitted with the canvas side inwards towards the seed.

Where Thin Plastic Belts are lap jointed they should be fitted as below.

Fig.4



Spring Base (Fig. 1 ref.4)

These may be plain or grooved depending on the seed belt and seed being planted. In general, plain bases are used with plain belts, and grooved bases with ribbed belts, although there are occasions when a base with a shallow groove or outlet, may be used with a plain belt.

Plain bases must always be used with thin plastic belts. The bases are marked on the underside with an identification letter followed by the suffix 2.

See SEED SETTING GUIDE (pages 15-20) and SPRING BASE LIST (page 7).

Make sure that the base is fitted the correct way round, i.e. with the short end towards the repeller wheel, and free to oscillate on the spring base pin with the unit cover plate tightly fitted.

Repeller Wheel (Fig.1 ref.5)

The function of the Repeller Wheel is to remove excess seed from the holes in the seed belt, and circulate the seed in the seed chamber.

There are 3 types of Repeller Tyre available (see Fig.5).

1. Black Tyre

General purpose tyre for single line drilling of conventional pellets (NOT polymer coated), and larger vegetable seeds. When 3 line drilling with this tyre, a higher seed rate is generally obtained through the centre row of holes in the seed belt, than the outer two rows.

2. Black Tyre - solid centre

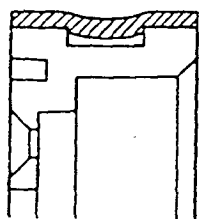
Synthetic rubber tyre for single and multi-line drilling ALL natural and coated vegetable seeds, giving equal seed rates on all 3 lines of seed when multi-line drilling. This tyre is also recommended for drilling single lines of very thin seeds, e.g. raw tomato, lettuce, parsnip etc., and seed such as raw onion and leek, which tends to stick in the holes in the seed belt.

Note: New Black tyres should be dusted with French Chalk prior to use.

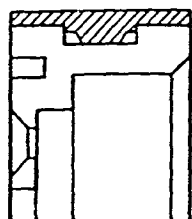
3. Brown Tyre

Specialist tyre for polymer coated sugar beet pellets. Because of the smooth surface of this tyre it is not recommended for small seeds, as it does not repel as effectively as the Black tyres.

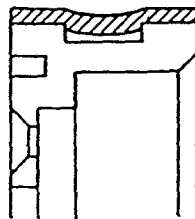
Fig.5



Black Tyre



Black Tyre
- solid centre



Brown Tyre

Belt Wheel (Fig.1 ref.6)

The belt wheel is fitted with a rubber tyre and drives the seed belt. It is important that the tyre is in good condition and not contaminated with seed dressing - particularly French Chalk - or seed belt slip may occur with subsequent loss of performance.

Seed Belt Monitor (Fig.1 ref.7)

When an electrical or electronic monitor is being used, the seed belt tensioner has a reed switch fitted to the Spring Arm, activated by a magnet inserted in the Tensioner Roller. For correct operation it is therefore most important that the roller rotates freely.

If any malfunction of the system is indicated, check that the ingress of dust or seed dressing has not seized the roller to its spindle.

Idler Rollers (Fig.1 ref.8)

These run on spindles screwed into the aluminium body casting, which are easily removed for cleaning or maintenance.

Spring Base Pin (Fig.1 ref.9)

There are 2 types of Spring Base Pin, viz.

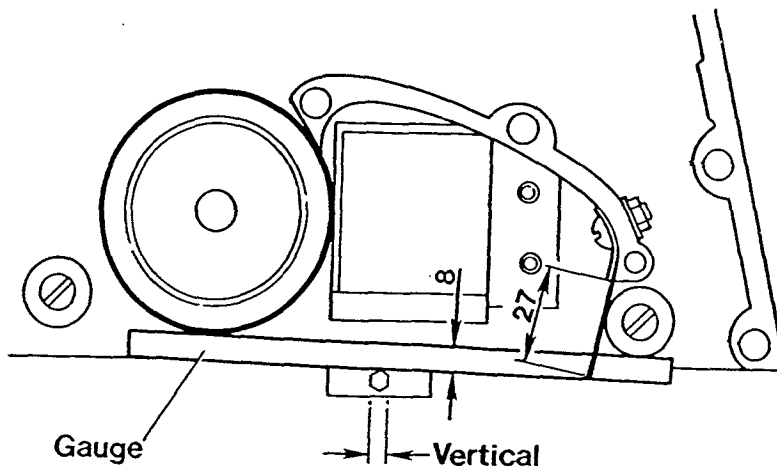
Type A: Screwed directly into a lug on the bottom of the aluminium body casting; and

Type B: Attached to the lug by means of a plate and 2 screws.

With both types of pin, it is important that they are adjusted correctly for optimum unit performance, and to ensure that all units deliver similar amounts of seed - particularly with small seeds such as raw carrot.

Type A The pin should be screwed tightly into the casting with the flats of the hexagon vertical. If necessary lightly tap the pin until it just makes contact with an 8mm thick gauge held firmly against the Repeller Wheel and Idler Roller as shown below.

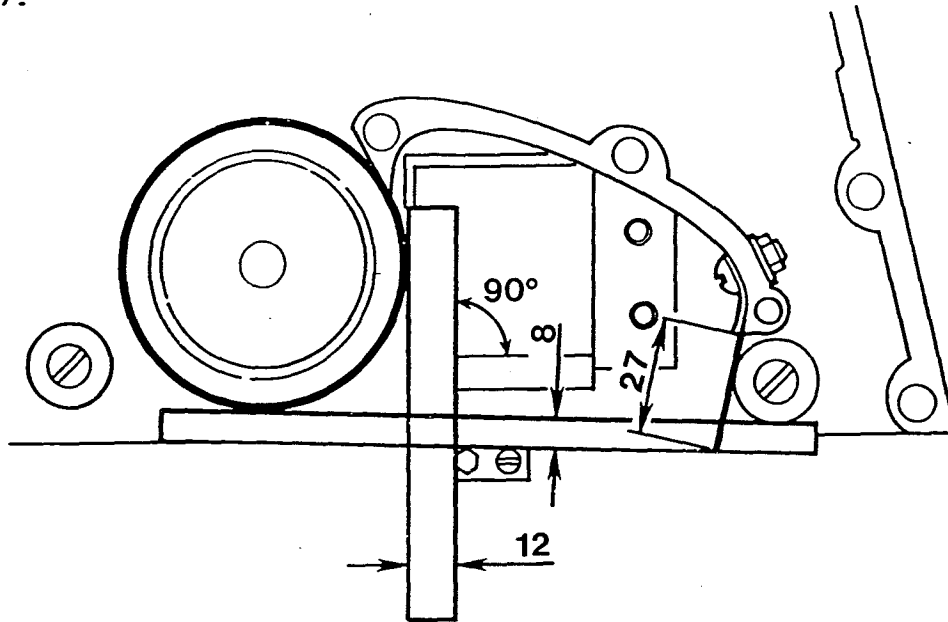
Fig.6



Type B The pin should be screwed tightly into the attachment plate, with the flats of the hexagon vertical.

Loosen the 2 fixing screws until the plate is just movable. Adjust the plate laterally until the flat of the hexagon pin makes contact with a 12mm thick gauge held vertically against the Repeller Wheel. Lightly tighten the fixing screws. Hold an 8mm thick gauge firmly against the Repeller Wheel and Idler Roller, and tap the attachment plate upwards until the Spring Base pin just makes contact as shown below. Firmly tighten fixing screws.

Fig.7.



Rubber Flap (Fig.1 ref.10)

The Rubber Flap forms the front of the seed chamber and serves to prevent seed contacting the Idler Roller and entering holes in the Seed Belt forward of the Spring Base. To function effectively it should be set with 27mm protruding below the Clamping Plate (see Figs. 6 and 7) and should move freely with the unit cover plate fitted.

Cover Plate

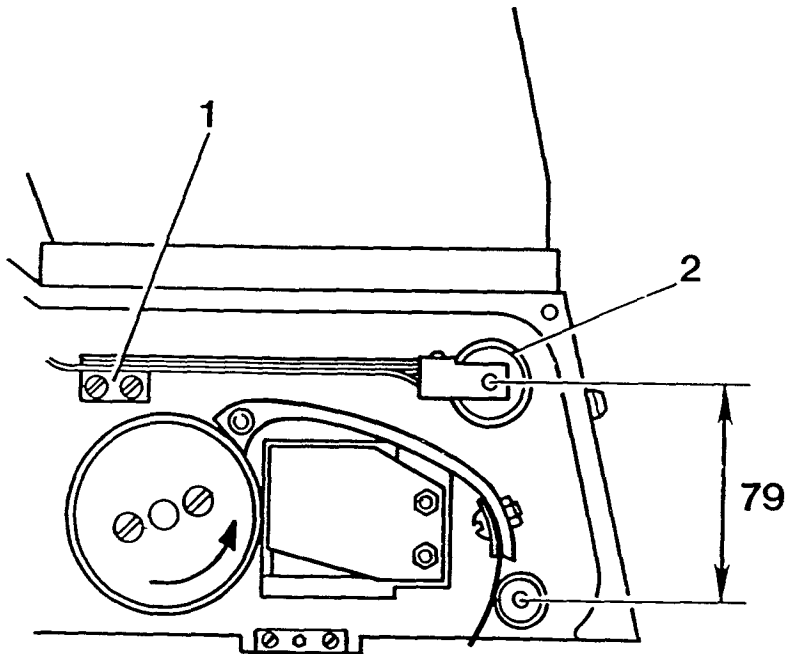
The Cover Plate locates over 2 dowels in the metering unit casting flange, and is secured by means of one wing nut. It is important that the Cover Plate is flat, particularly where it encloses the seed chamber. With the wing nut tightened, check that the Cover Plate is seated firmly against the flange over the seed chamber and against the heads of the Idler Roller Spindles.

Seed Belt Tensioner (Fig.1 ref.11)

For correct seed belt tensioning the distance between the centres of the Tensioner Roller and the Front Idler Roller should be 79mm with NO SEED BELT FITTED. If necessary these centres can be adjusted by slackening the 2 fixing screws in the attachment bracket (Item 1 Fig.8).

The Seed Belt Tensioner is also used to make the seed belt track correctly within the width of the metering unit. Bending the attachment bracket (Item 1 Fig.8) up, will cause the belt to run towards the cover plate and, bending down, towards the aluminium casting. Only a very small amount of movement is required and care must be taken not to cause damage to the bracket by over-bending, or damage to the electrical cable if a monitor is fitted.

Fig.8



SPRING BASE LIST

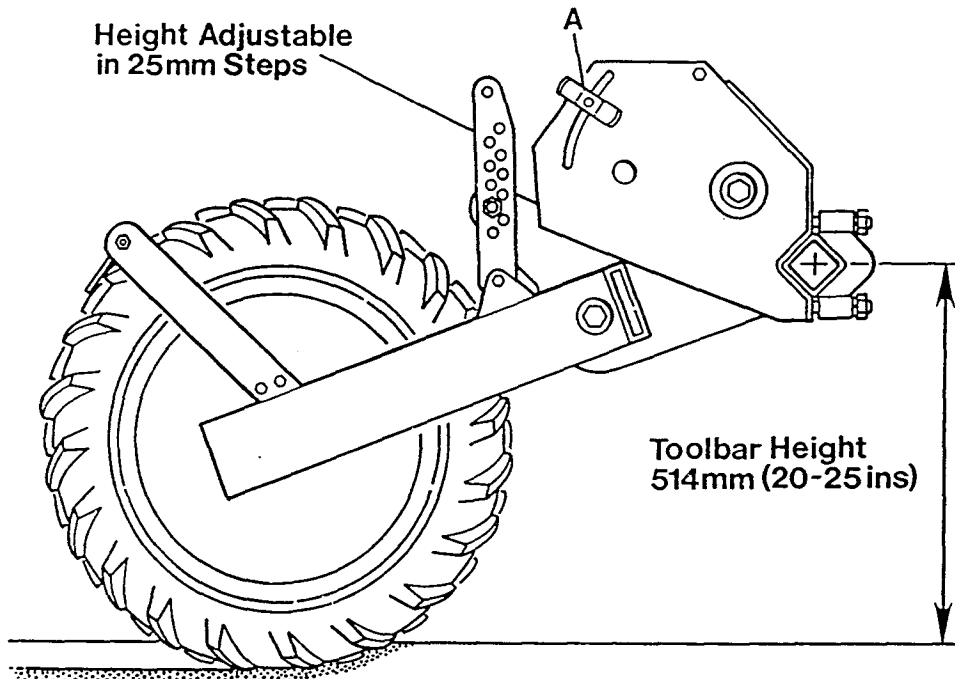
Base	Part No:	Description
A2	2810017	Plain - No Grooves.
B2 Single Groove B2 Triple Groove	2810018 2810046	5.0mm wide, 2.4mm deep, flat bottom. Vee groove, whole length of base. Slight radius at each end of groove
C2 Single Groove C2 Triple Groove	2810019 2810047	6.4mm dia. 2.4mm deep groove whole length of base. Slight radius at each end of groove.
D2 Single Groove D2 Double Groove	2810020 2810097	9.5mm wide, 3.2mm deep groove whole length of base. Outlet end cut back 5.6mm.
E2 Single Groove E2 Triple Groove	2810021 2810048	6.4mm dia. 1.2mm deep groove whole length of base. Slight radius at each end of groove.
F2 Single Groove F2 Triple Groove	2810022 2810049	4.8mm dia. 0.8mm deep groove at outlet, tapering to nothing over 38mm length. Slight radius at outlet.
G2 Single Groove G2 Double Groove G2 Triple Groove	2810023 2810042 2810050	4.8mm dia. 1.6mm deep groove at outlet tapering to nothing over 29mm length. Slight radius at outlet.
J2 Single Groove	2810024	19.1mm dia. 6.4mm deep groove whole length of base. Outlet end cut back 25.4mm at 19.1 dia. Thick base.
K2 Single Groove	2810025	19.4mm wide, 3.2mm deep groove whole length of base. Outlet end cut back 12.7mm. Thick base.
L2 Single Groove	2810026	19.4mm wide, 3.2mm deep groove whole length of base. Outlet end cut back 17.5mm. Thick base.
M2 Single Groove M2 Double Groove	2810027 2810043	9.5mm wide, 2.4mm deep groove whole length of base. Slight radius at each end of groove.
N2 Single Groove N2 Double Groove	2810028 2810210	9.5mm dia. 4.8mm deep groove whole length of base. Slight radius at each end of groove. Thick base.
P2 Single Groove	2810029	14.3mm wide, 3.2mm deep groove whole length of base. Outlet end cut back 9.5mm.
Q2 Single Groove	2810030	15.9mm wide, 3.2mm deep groove whole length of base. Outlet end cut back 12.7mm.
R2 Single Groove	2810031	17.5mm wide groove tapering to nothing over 57.2mm. Outlet end cut back 12.7mm. Thick base.
S2 Triple Groove	2810051	4.8mm dia., 1.6mm deep groove whole length of base. Slight radius at each end of groove.
T2 Single Groove	2810033	12.7mm dia., 5.6mm deep groove whole length of base. Outlet end cut back 6.4mm at 12.7mm dia. Thick base.
U2 Single Groove	2810034	12.7mm dia., 6.4mm deep groove whole length of base. Outlet end cut back 6.4mm at 12.7mm dia. Thick base.
V2 Single Groove	2810035	19.1mm dia., 6.4mm deep groove whole length of base. Outlet end cut back 15.9mm at 19.1mm dia. Thick base.
W2 Double Groove	2810044	4.8mm dia., 1.6mm deep groove at outlet, tapering to nothing over 22.2mm length.
X2 Single Groove	2810036	14.3mm wide, 3.2mm deep groove whole length of base. Slight radius at outlet end of groove. Thick base.
Y2 Single Groove	2810037	15.9mm wide, 4.0mm deep groove whole length of base. Slight radius at outlet end of groove. Thick base.
Z2 Triple Groove	2810052	4.8mm dia., 0.8mm deep groove whole length of base. Slight radius at each end of groove.
FC2 Single Groove FC2 Triple Groove	2810039 2810164	6.4mm dia., 3.2mm deep groove whole length of base. Slight radius at each end of groove.
HC2 Single Groove HC2 Triple Groove	2810040 2810135	5.3mm dia. groove, 3.2mm deep at entry, tapering to 1.9mm deep at outlet end.
YC2 Single Groove YC2 Triple Groove	2810041 2810099	7.0mm dia., 4.3mm deep groove whole length of base. Slight radius at each end of groove. Thick base.

SETTING SEED SPACING

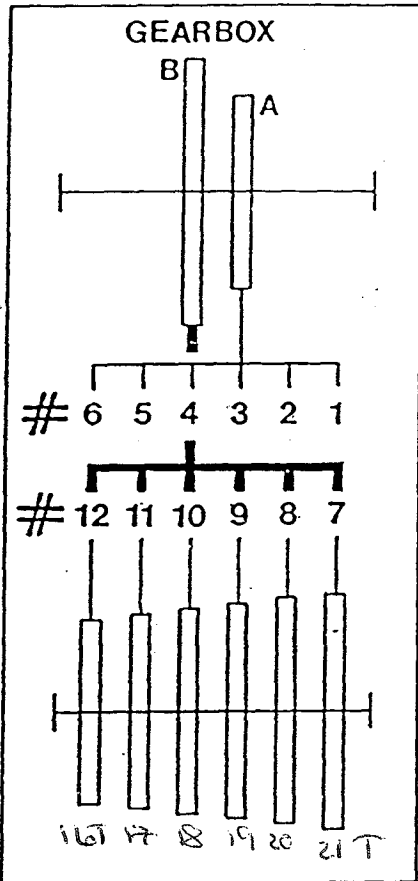
Seed spacing is varied by means of a chain drive gearbox incorporated within the main drive landwheel.

There are 6 primary drive sprockets, used in conjunction with sliding sprockets A and B, mounted on a pivoted layshaft.

TO SELECT GEAR, loosen the nuts A, and pivot the layshaft downwards to slacken the drive chain. Fit the drive chain over the appropriate drive sprocket and sliding sprocket, check that the chain is in line, and re-tension. Turn the landwheel by hand and check chain tension and drive.



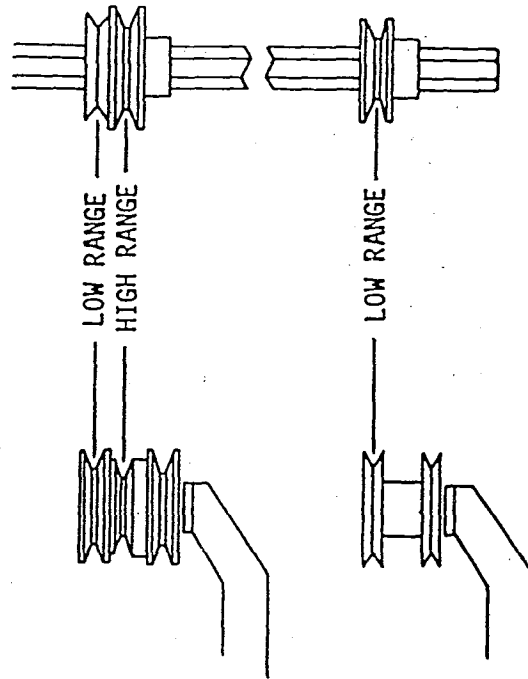
GEAR SETTINGS



Use sprocket A
for gears 1-6

Use sprocket B
for gears 7-12

KNEE JOINT PULLEYS



12 SPACING CHAIN DRIVE ADJUSTABLE HEIGHT LANDWHEEL

SEED SPACING CHART - MM
USING LOW RANGE KNEE JOINT PULLEYS

No. of holes in belt	GEAR SETTING #											
	1	2	3	4	5	6	7	8	9	10	11	12
144	16.0	16.8	17.8	18.8	19.8	21.1	22.6	23.9	25.1	26.4	27.9	29.7
120	19.3	20.3	21.3	22.6	23.9	25.4	27.2	28.7	30.2	31.8	33.5	35.8
112	20.6	21.6	22.9	24.1	25.4	27.2	29.2	30.7	32.3	34.0	36.1	38.4
96	24.1	25.4	26.7	28.2	29.7	31.8	34.0	35.8	37.6	39.6	42.2	44.7
90	25.7	26.5	28.4	30.0	31.8	33.8	36.3	38.1	40.1	42.4	45.0	47.8
72	32.3	33.8	35.6	37.6	39.6	42.2	45.5	47.8	50.3	52.8	56.1	59.7
60	38.6	40.4	42.7	45.0	47.8	50.5	54.4	57.2	60.2	63.5	67.3	71.4
56	41.4	43.4	45.7	48.3	51.1	54.4	58.4	61.2	64.5	68.1	72.1	76.7
48	48.3	50.5	53.3	56.1	59.4	63.2	68.1	71.4	75.2	79.5	84.1	89.4
45	51.3	54.1	56.9	59.9	63.5	67.6	72.6	76.2	80.3	84.8	89.7	95.3
40	57.9	60.7	64.0	67.6	71.4	75.9	81.8	85.9	90.4	95.3	100.8	107.2
36	64.3	67.6	71.1	74.9	79.5	84.3	90.7	95.3	100.3	105.9	112.3	119.1
32	72.4	75.9	80.0	84.3	89.4	95.0	102.1	107.2	112.8	119.1	126.2	134.1
30	77.2	81.0	85.3	89.9	95.3	101.3	109.0	114.3	120.4	127.0	134.6	143.0
28	82.6	86.9	91.4	96.5	102.1	108.5	116.6	122.4	129.0	136.1	144.3	153.2
24	96.5	101.3	106.7	112.5	119.1	126.5	136.1	143.0	150.6	158.8	168.1	178.8
20	115.6	121.4	127.8	134.9	143.0	152.1	163.3	171.5	180.6	190.8	201.9	214.4
18	128.5	134.9	142.0	149.9	158.8	168.7	181.4	190.8	200.7	211.8	224.3	238.3
16	144.5	151.9	159.8	168.7	178.6	189.7	204.2	214.4	225.8	238.3	252.2	268.2
15	154.2	162.1	170.4	179.8	190.5	202.4	217.7	228.9	240.8	254.3	269.2	286.0
14	165.4	173.5	182.6	192.8	204.2	216.9	233.4	245.1	258.1	272.3	288.3	306.3
12	192.8	202.4	213.1	225.0	238.3	253.0	272.3	286.0	301.0	317.8	336.6	357.4
10	231.4	243.1	255.8	270.0	285.8	303.8	326.6	343.2	361.2	381.3	403.9	429.0
9	257.0	270.0	284.2	300.0	317.5	337.3	363.0	381.3	401.3	423.7	448.6	476.8
8	289.3	303.8	319.8	337.3	357.4	379.7	408.4	429.0	451.6	476.5	504.7	536.2
6	385.6	404.9	426.2	449.8	476.3	506.0	544.3	572.0	602.0	635.5	672.8	715.0
5	462.8	485.9	511.6	539.8	571.5	607.3	653.3	686.3	722.4	762.5	807.5	858.0
4	578.4	607.3	639.3	674.9	714.5	759.2	816.6	857.8	903.0	953.3	1009.4	1072.4
1 Rev.	2313.9	2430.8	2557.8	2700.0	2857.5	3037.8	3266.4	3431.5	3611.9	3812.5	4038.6	4290.1
Forward Speed kph 75 rpm Unit	4.1	4.3	4.5	4.7	5.0	5.3	5.7	6.0	6.3	6.7	7.1	7.5
Forward Speed kph 60 rpm Unit	3.2	3.4	3.6	3.8	4.0	4.3	4.6	4.8	5.1	5.3	5.7	6.0

12 SPACING CHAIN DRIVE ADJUSTABLE HEIGHT LANDWHEEL

SEED SPACING CHART - MM
USING HIGH RANGE KNEE JOINT PULLEYS

No. of holes in belt	GEAR SETTING #											
	1	2	3	4	5	6	7	8	9	10	11	12
144	13.0	13.5	14.2	15.0	16.0	16.8	18.0	19.1	20.1	21.1	22.4	23.9
120	15.5	16.3	17.0	18.0	19.1	20.3	21.8	22.9	24.1	25.4	26.9	28.7
112	16.5	17.3	18.3	19.3	20.3	21.6	23.4	24.4	25.9	27.2	29.0	30.7
96	19.3	20.3	21.3	22.6	23.9	25.4	27.2	28.7	30.2	31.8	33.5	35.8
90	20.6	21.6	22.9	23.9	25.4	26.9	29.0	30.5	32.0	33.8	35.8	38.1
72	25.7	26.9	28.4	30.0	31.8	33.8	36.3	38.1	40.1	42.4	45.0	47.8
60	30.7	32.5	34.0	36.1	38.1	40.6	43.4	45.7	48.3	50.8	53.8	57.2
56	33.0	34.8	36.6	38.6	40.9	43.4	46.7	49.0	51.6	54.4	57.7	61.2
48	38.6	40.4	42.7	45.0	47.8	50.5	54.4	57.2	60.2	63.5	67.3	71.4
45	41.1	43.2	45.5	48.0	50.8	54.1	58.2	61.0	64.3	67.8	71.9	76.2
40	46.2	48.5	51.1	54.1	57.2	60.7	65.3	68.6	72.1	76.2	80.8	85.9
36	51.3	54.1	56.9	59.9	63.5	67.6	72.6	76.2	80.3	84.8	89.7	95.3
32	57.9	60.7	64.0	67.6	71.4	75.9	81.8	84.8	90.4	95.3	100.8	107.2
30	61.7	64.8	68.3	71.9	76.2	81.0	87.1	91.4	96.3	101.6	107.7	114.3
28	66.0	69.3	73.2	77.2	81.6	86.9	93.2	98.0	103.1	109.0	115.3	122.7
24	77.2	81.0	85.3	89.9	95.3	101.3	109.0	114.3	120.4	127.0	134.6	143.0
20	92.5	97.3	102.4	108.0	114.3	121.4	130.6	137.2	144.5	152.4	161.5	171.7
18	102.9	108.0	113.8	119.9	127.0	134.9	145.3	152.4	160.5	169.4	179.3	190.8
16	115.6	121.4	127.8	134.5	143.0	151.9	163.3	171.5	180.6	190.8	201.9	214.4
15	123.4	129.5	136.4	144.0	152.4	162.1	174.2	182.9	192.5	203.2	215.4	228.9
14	132.3	138.9	146.1	154.2	163.3	173.5	186.7	196.1	206.5	217.9	230.6	245.1
12	154.2	162.1	170.4	179.8	190.5	202.4	217.7	228.6	240.8	254.3	269.2	286.0
10	185.2	194.3	205.7	215.9	228.6	243.1	261.4	274.6	289.1	305.1	323.1	343.2
9	205.7	215.9	227.3	240.0	254.0	270.0	290.3	305.1	321.1	338.8	358.9	381.3
8	231.4	243.1	255.8	270.0	285.8	303.8	326.6	343.2	361.2	381.3	403.9	429.0
6	308.6	323.9	341.1	359.9	381.0	404.9	435.6	457.5	481.6	508.5	538.2	572.0
5	370.1	388.6	409.2	431.8	457.2	485.9	522.7	548.9	577.9	610.1	645.9	686.3
4	462.8	485.9	511.6	539.8	571.5	589.0	653.3	686.3	722.4	762.5	807.5	858.0
1 Rev.	1851.7	1943.1	2047.2	2159.0	2286.0	2430.8	2613.7	2745.7	2890.5	3050.5	3230.9	3431.5
Forward Speed kph 75 rpm Unit	3.2	3.4	3.5	3.8	4.0	4.3	4.6	4.8	5.1	5.3	5.7	6.0
Forward Speed kph 60 rpm Unit	2.6	2.7	2.9	3.1	3.2	3.4	3.7	3.9	4.0	4.3	4.5	4.8

12 SPACING CHAIN DRIVE ADJUSTABLE HEIGHT LANDWHEEL

SEED SPACING CHART - INCHES
USING LOW RANGE KNEE JOINT PULLEYS

No. of holes in belt	GEAR SETTING #											
	1	2	3	4	5	6	7	8	9	10	11	12
144	0.63	0.66	0.70	0.74	0.78	0.83	0.89	0.94	0.99	1.04	1.10	1.17
120	0.76	0.80	0.84	0.89	0.94	1.00	1.07	1.13	1.19	1.25	1.32	1.41
112	0.81	0.85	0.90	0.95	1.00	1.07	1.15	1.21	1.27	1.34	1.42	1.51
96	0.95	1.00	1.05	1.11	1.17	1.25	1.34	1.41	1.48	1.56	1.66	1.76
90	1.01	1.06	1.12	1.18	1.25	1.33	1.43	1.50	1.58	1.67	1.77	1.88
72	1.27	1.33	1.40	1.48	1.56	1.66	1.79	1.88	1.98	2.08	2.21	2.35
60	1.52	1.59	1.68	1.77	1.88	1.99	2.14	2.25	2.37	2.50	2.65	2.81
56	1.63	1.71	1.80	1.90	2.01	2.14	2.30	2.41	2.54	2.68	2.84	3.02
48	1.90	1.99	2.10	2.21	2.34	2.49	2.68	2.81	2.96	3.13	3.31	3.52
45	2.02	2.13	2.24	2.36	2.50	2.66	2.86	3.00	3.16	3.34	3.53	3.75
40	2.28	2.39	2.52	2.66	2.81	2.99	3.22	3.38	3.56	3.75	3.97	4.22
36	2.53	2.66	2.80	2.95	3.13	3.32	3.57	3.75	3.95	4.17	4.42	4.69
32	2.85	2.99	3.15	3.32	3.52	3.74	4.02	4.22	4.44	4.69	4.97	5.28
30	3.04	3.19	3.36	3.54	3.75	3.99	4.29	4.50	4.74	5.00	5.30	5.63
28	3.25	3.42	3.60	3.80	4.02	4.27	4.59	4.82	5.08	5.36	5.68	6.03
24	3.80	3.99	4.20	4.43	4.69	4.98	5.36	5.63	5.93	6.25	6.62	7.04
20	4.55	4.78	5.03	5.31	5.63	5.99	6.43	6.75	7.11	7.51	7.95	8.44
18	5.06	5.31	5.59	5.90	6.25	6.64	7.14	7.51	7.90	8.34	8.83	9.38
16	5.69	5.98	6.29	6.64	7.03	7.47	8.04	8.44	8.89	9.38	9.93	10.56
15	6.07	6.38	6.71	7.08	7.50	7.97	8.57	9.01	9.48	10.01	10.60	11.26
14	6.51	6.83	7.19	7.59	8.04	8.54	9.19	9.65	10.16	10.72	11.35	12.06
12	7.59	7.97	8.39	8.86	9.38	9.96	10.72	11.26	11.85	12.51	13.25	14.07
10	9.11	9.57	10.07	10.63	11.25	11.96	12.86	13.51	14.22	15.01	15.90	16.89
9	10.12	10.63	11.19	11.81	12.50	13.28	14.29	15.01	15.80	16.68	17.66	18.77
8	11.39	11.96	12.59	13.28	14.07	14.95	16.08	16.89	17.78	18.76	19.87	21.11
6	15.18	15.94	16.78	17.71	18.75	19.92	21.43	22.52	23.70	25.02	26.49	28.15
5	18.22	19.13	20.14	21.25	22.50	23.91	25.72	27.02	28.44	30.02	31.79	33.78
4	22.77	23.91	25.17	26.57	28.13	29.89	32.15	33.77	35.55	37.53	39.74	42.22
1 Rev.	91.1	95.7	100.7	106.3	112.5	119.6	128.6	135.1	142.2	150.1	159.0	168.9
Forward Speed mph 75 rpm Unit	2.5	2.6	2.8	2.9	3.1	3.3	3.6	3.7	3.9	4.2	4.4	4.7
Forward Speed mph 60 rpm Unit	2.0	2.1	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.3	3.5	3.7

12 SPACING CHAIN DRIVE ADJUSTABLE HEIGHT LANDWHEEL

**SEED SPACING CHART - INCHES
USING HIGH RANGE KNEE JOINT PULLEYS**

No. of holes in belt	G E A R S E T T I N G #											
	1	2	3	4	5	6	7	8	9	10	11	12
144	0.51	0.53	0.56	0.59	0.63	0.66	0.71	0.75	0.79	0.83	0.88	0.94
120	0.61	0.64	0.67	0.71	0.75	0.80	0.86	0.90	0.95	1.00	1.06	1.13
112	0.65	0.68	0.72	0.76	0.80	0.85	0.92	0.96	1.02	1.07	1.14	1.21
96	0.76	0.80	0.84	0.89	0.94	1.00	1.07	1.13	1.19	1.25	1.32	1.41
90	0.81	0.85	0.90	0.94	1.00	1.06	1.14	1.20	1.26	1.33	1.41	1.50
72	1.01	1.06	1.12	1.18	1.25	1.33	1.43	1.50	1.58	1.67	1.77	1.88
60	1.21	1.28	1.34	1.42	1.50	1.60	1.71	1.80	1.90	2.00	2.12	2.25
56	1.30	1.37	1.44	1.52	1.61	1.71	1.84	1.93	2.03	2.14	2.27	2.41
48	1.52	1.59	1.68	1.77	1.88	1.99	2.14	2.25	2.37	2.50	2.65	2.81
45	1.62	1.70	1.79	1.89	2.00	2.13	2.29	2.40	2.53	2.67	2.83	3.00
40	1.82	1.91	2.01	2.13	2.25	2.39	2.57	2.70	2.84	3.00	3.18	3.38
36	2.02	2.13	2.24	2.36	2.50	2.66	2.86	3.00	3.16	3.34	3.53	3.75
32	2.28	2.39	2.52	2.66	2.81	2.99	3.22	3.34	3.56	3.75	3.97	4.22
30	2.43	2.55	2.69	2.83	3.00	3.19	3.43	3.60	3.79	4.00	4.24	4.50
28	2.60	2.73	2.88	3.04	3.22	3.42	3.67	3.86	4.06	4.29	4.54	4.83
24	3.04	3.19	3.36	3.54	3.75	3.99	4.29	4.50	4.74	5.00	5.30	5.63
20	3.64	3.83	4.03	4.25	4.50	4.78	5.14	5.40	5.69	6.00	6.36	6.76
18	4.05	4.25	4.48	4.72	5.00	5.31	5.72	6.00	6.32	6.67	7.06	7.51
16	4.55	4.78	5.03	5.31	5.63	5.98	6.43	6.75	7.11	7.51	7.95	8.44
15	4.86	5.10	5.37	5.67	6.00	6.38	6.86	7.20	7.58	8.00	8.48	9.01
14	5.21	5.47	5.75	6.07	6.43	6.83	7.35	7.72	8.13	8.58	9.08	9.65
12	6.07	6.38	6.71	7.08	7.50	7.97	8.57	9.00	9.48	10.01	10.60	11.26
10	7.29	7.65	8.10	8.50	9.00	9.57	10.29	10.81	11.38	12.01	12.72	13.51
9	8.10	8.50	8.95	9.45	10.00	10.63	11.43	12.01	12.64	13.34	14.13	15.01
8	9.11	9.57	10.07	10.63	11.25	11.96	12.86	13.51	14.22	15.01	15.90	16.89
6	12.15	12.75	13.43	14.17	15.00	15.94	17.15	18.01	18.96	20.02	21.19	22.52
5	14.57	15.30	16.11	17.00	18.00	19.13	20.58	21.61	22.75	24.02	25.43	27.02
4	18.22	19.13	20.14	21.25	22.50	23.19	25.72	27.02	28.44	30.02	31.79	33.78
1 Rev.	72.9	76.5	80.6	85.0	90.0	95.7	102.9	108.1	113.8	120.1	127.2	135.1
Forward Speed mph 75 rpm Unit	2.0	2.1	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.3	3.5	3.7
Forward Speed mph 60 rpm Unit	1.6	1.7	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0

SEED SETTING

1. Refer to the **SEED SETTING GUIDE** (pages 15-20) to establish the recommended:-
 - a) Seed Belt and hole size.
 - b) Spring Base
 - c) Seed Choke
 - d) Repeller Tyre
 - e) Unit Speed
2. Refer to the **GEAR SETTING CHART(s)** (pages 10- 13) to determine the number of holes in the Seed Belt necessary to produce the required seed spacing, together with the appropriate Gear Setting.

These charts also indicate the Forward Speed associated with the recommended Unit Speed.

- Notes:**
- a) Charts show spacings obtained with either High or Low Range Knee Joint Pulleys.
 - b) Generally the fewer the holes in the Seed Belt, the better the seed spacing.
 - c) The maximum number of holes that can be punched in a Seed Belt is determined by the hole size. See Chart below.
 - d) The holes in the Seed Belt should be clean and free of fibres, which can be removed by singeing with a small flame. Too much heat will damage the belt and care must be taken during this operation.

Hole Size	Maximum number of holes	Hole Size	Maximum number of holes
6.5 and 7	144	21 to 24	48
8, 8.5 and 9	120	25 to 30	40
9.5 and 10	112	32	36
11	96	36	32
12 and 13	90	40	30
14 to 17	72	44	28
18 to 20	60	49	24

SEED SETTING GUIDE - GENERAL

Seed	Grade	Seed Belt	Hole Size	Spring Base	Choke	Repeller Tyre	Unit rpm	Remarks
Sugar Beet Plain Pellets	3.50 - 4.75mm	Ribbed Rubber or Ribbed Black	16.5	C2	A	Black or Brown	60	
Sugar Beet Polymer Coated Pellets	3.50 - 4.75mm	Ribbed Black	16.5	C2	A	Brown	60	
Sugar Beet, Red Beet Fodder Beet, Mangold Rubbed and Graded	3.50 - 4.75mm	Ribbed Rubber or Ribbed Black	16.0	B2	X	Black solid centre	75	A Black general purpose repeller tyre may be used, but will result in a deterioration in seed spacing and an increase in double seeds.
	4.00 - 4.50mm	Ribbed Rubber or Ribbed Black	16.0	C2	X	Black solid centre	75	
	3.50 - 4.00mm	Ribbed Rubber or Ribbed Black	15.0	C2	X	Black solid centre	75	
	3.00 - 3.50mm	Ribbed Rubber or Ribbed Black	14.0	S2	X	Black solid centre	75	
Sugar Beet Rubbed Ungraded	-	Ribbed Rubber or Ribbed Black	15.5	B2	X	Black solid centre	75	If number of doubles unacceptable use S2 Spring Base.
	-	Plain Rubber or Plain Black	14.5	E2	X	Black solid centre	75	
Sugar Beet, Red Beet, Fodder Beet, Mangold Natural	5.25 - 6.50mm or ungraded	Ribbed Rubber or Ribbed Black	20.0	D2	P	Black solid centre	75	The hole in the seed belt must be big enough to accept the largest seed.
Brassicae	1.50 - 1.75mm	Plain Rubber or Plain Black	7.0	A2	T	Black solid centre	60	A Black general purpose repeller tyre may be used, but will result in a deterioration in seed spacing and an increase in double seeds.
	1.75 - 2.00mm	Plain Rubber or Plain Black	8.0	A2	T	Black solid centre	60	
	2.00 - 2.25	Plain Rubber or Plain Black	8.5	A2	T	Black solid centre	60	
	2.25 - 2.50	Plain Rubber or Plain Black	9.5	A2	T	Black solid centre	60	
	Under 1.75	Plain Rubber or Plain Black	8.0	A2	T	Black solid centre	60	
	Over 1.75	Plain Rubber or Plain Black	8.5	A2	T	Black solid centre	60	
	Under 2.00	Plain Rubber or Plain Black	8.5	A2	T	Black solid centre	60	
	Over 2.00	Plain Rubber or Plain Black	9.0	A2	T	Black solid centre	60	
	Under 2.25	Plain Rubber or Plain Black	8.5	A2	T	Black solid centre	60	
	Over 2.25	Plain Rubber or Plain Black	9.5	A2	T	Black solid centre	60	
Carrot Pelletted	1.50 - 1.75	Plain Rubber or Plain Black	7.5	A2	T	Black or Black solid centre	60	If pellets are polymer coated, a Black seed belt, and a Black solid centre repeller tyre must be used.
	1.75 - 2.25	Plain Rubber or Plain Black	9.0	A2	T	Black or Black solid centre	60	
	2.00 - 2.50	Plain Rubber or Plain Black	10.0	A2	T	Black or Black solid centre	60	
	2.00 - 3.50	Plain Rubber or Plain Black	11.0	Z2	T	Black or Black solid centre	60	
	3.00 - 3.50	Ribbed Rubber or Ribbed Black	13.0	S2	A	Black or Black solid centre	60	
Carrot Raw or Coated * - see page 17	1.2 - 1.4	Thin Plastic	7.0	A2	T	Black solid centre	60	The hole sizes shown give approx. 2 seeds per station. Seed rates are reduced by increasing the unit speed towards 75 rpm.
	1.4 - 1.6	Thin Plastic	8.0	A2	T	Black solid centre	60	
	1.6 - 1.8	Thin Plastic	9.5	A2	T	Black solid centre	60	
	1.8 - 2.0	Thin Plastic	11.0	A2	T	Black solid centre	60	
	2.0 - 2.2	Thin Plastic	12.0	A2	T	Black solid centre	60	

Seeds vary: the above settings are a guide only.

SEED SETTING GUIDE - GENERAL

Seed	Grade	Seed Belt	Hole Size	Spring Base	Choke	Repeller Tyre	Unit rpm	Remarks
Celery - Mini Pellet	1.5 - 1.75	Plain Rubber or Plain Black	7.0	A2	T	Black or Black solid centre	60	If pellets are polymer coated, a plain Black Black seed belt, and a Black solid centre repeller tyre must be used.
Chicory (Endive) Pelletted	2.75 - 3.25	Ribbed Rubber or Ribbed Black	12.0	E2	A	Black or Black solid centre	60	If pellets are polymer coated, a Ribbed Black seed belt and a Black solid centre repeller tyre must be used.
Chicory (Endive) Raw or Coated	-	Thin Plastic	9.0	A2	C	Black solid centre	60	Test seed for more accurate selection.
Courgette	-	Ribbed Rubber or Ribbed Black	38.0 to 49.0	P2	P	Black	60	Test seed for hole size.
Cucumber	-	Plain Rubber or Plain Black	23.0	A2	A	Black	60	
Leek Pelletted	2.00 - 2.50	Plain Rubber or Plain Black	9.5	A2	T	Black	60	
	2.25 - 2.75	Plain Rubber or Plain Black	11.0	Z2	A	Black	60	
	3.00 - 4.00	Ribbed Rubber or Ribbed Black	14.5	S2	A	Black	60	
Leek Raw or Coated	1.75 - 2.00	Thin Plastic	8.0	A2	T	Black solid centre	60	If number of doubles unacceptable increase unit speed to 75 rpm
	1.75 - 2.50	Plain Rubber or Plain Black	8.25	A2	T	Black solid centre	60	
Lettuce Pelletted	Mini-Pellet	Plain Rubber or Plain Black	-	A2	T	Black	-	Test seed.
	3.00 - 3.5	Ribbed Rubber or Ribbed Black	13.0	S2	A	Black	60	
	Split Pill	Ribbed Rubber or Ribbed Black	14.0	C2	A	Black	60	
	4.0 - 4.75	Ribbed Rubber or Ribbed Black	16.0	C2	A	Black	60	
Lettuce Raw * - see page 17	-	Thin Plastic	9.5 or 10.0	A2	T	Black solid centre	75	2 or 3 seeds per hole.
Mustard White or Yellow	-	Plain Rubber or Plain Black	10.0	G2	T	Black solid centre	60	
Millet	-	Plain Rubber or Plain Black	12.0	F2	T	Black solid centre	60	
Onion Pelletted	2.75 - 3.25	Plain Rubber or Plain Black	11.5	Z2	A	Black	60	
	3.00 - 3.50	Ribbed Rubber or Ribbed Black	13.0	S2	A	Black	60	
	3.50 - 4.00	Ribbed Rubber or Ribbed Black	14.5	S2	A	Black	60	
	3.00 - 4.50	Ribbed Rubber or Ribbed Black	15.0	B2	A	Black	60	
Onion Raw	2.25 - 2.5	Plain Rubber or Plain Black	10.0	A2	T	Black solid centre	60	
Parsnip Pelletted	4.00 - 4.75	Ribbed Rubber or Ribbed Black	16.0	C2	A	Black	60	
	4.50 - 5.00	Ribbed Rubber or Ribbed Black	17.0	C2	A	Black	60	
	4.75 - 6.00	Ribbed Rubber or Ribbed Black	18.0	C2	X	Black	60	
	Over 6.00	Ribbed Rubber or Ribbed Black	20.0	M2	X	Black	60	
Parsnip Raw * - see page 17	4.25 - 4.50	Thin Plastic	17.0	A2	A	Black solid centre	60	2 seeds per hole.
	4.50 - 5.50	Thin Plastic	20.0	A2	A	Black solid centre	60	

seeds vary: the above settings are a guide only.

SEED SETTING GUIDE - GENERAL

Seed	Grade	Seed Belt	Hole Size	Spring Base	Choke	Repeller Tyre	Unit rpm	Remarks
Peas	-	Ribbed Rubber or Ribbed Black	25.0 to 36.0	P2 or T2	P	Black	60	Test seed for hole size.
Radish	2.25 - 2.50	Plain Rubber or Plain Black	10.5	A2	T	Black	60	
	2.50 - 2.75	Plain Rubber or Plain Black	11.0	Z2	T	Black	60	
	2.75 - 3.00	Plain Rubber or Plain Black	12.0	Z2	T	Black	60	
	Under 3.00	Plain Rubber or Plain Black	12.0	Z2	T	Black	60	
	Over 3.00	Plain Rubber or Plain Black	13.0	Z2	T	Black	60	
Sorghum	-	Ribbed Rubber or Ribbed Black	15.5	B2	A	Black	60	
Soya Bean	-	Ribbed Rubber or Ribbed Black	26.0	D2	X	Black	60	
Swede	1.75 - 2.00	Plain Rubber or Plain Black	8.0	A2	T	Black or Black solid centre	60	
Sweet Corn	-	Ribbed Rubber or Ribbed Black	28.0 to 40.0	P2 or T2	P	Black	60	Test seed for hole size.
Tomato * see below	-	Thin Plastic	12.5	A2	A	Black solid centre	60	2-4 seeds per hole
Turnip	1.50 - 1.75	Plain Rubber or Plain Black	7.0	A2	T	Black or Black solid centre	60	

* Note: Raw Lettuce, Carrot, Parsnip and Tomato seed.

If these seeds do not have a powder dressing, mix one part of French Chalk to every sixteen parts of seed by weight. This assists circulation of the seed and stops it picking up on the repeller wheel tyre.

Seeds vary: the above settings are a guide only.

SEED SETTING GUIDE - HERBS

Seed	Seed Belt	Hole Size	Spring Base	Choke	Repeller Tyre
Anise	Thin Plastic	9.0	A2	T	Black solid centre
Balm	Thin Plastic	7.5	A2	T	Black solid centre
Basil	Thin Plastic	7.5	A2	C	Black solid centre
Bush Basil	Thin Plastic	8.0	A2	T	Black solid centre
Borage	Ribbed Rubber	16.5	B2	X	Black
Caraway	Plain Rubber	16.0	A2	A	Black
Chervil	Thin Plastic	15.0	A2	A	Black solid centre
Chives	Thin Plastic	8.5	A2	C	Black solid centre
Coriander	Ribbed Rubber	15.5	HC2	A	Black
Cumin	Plain Rubber	15.0	A2	A	Black
Dill	Thin Plastic	10.5	A2	T	Black solid centre
Fennel	Plain Rubber	15-17	A2	A	Black solid centre
Fenugreek	Plain Black	14.0	Z2	A	Black
Garlic Chives	Ribbed Rubber	14.0	B2	A	Black
Marjoram	Thin Plastic	4.5	A2	C	Black solid centre
Parsley	Thin Plastic	8-11	A2	T	Black solid centre
Poppy	Thin Plastic	6.0	A2	C	Black solid centre
Rosemary	Thin Plastic	7.5	A2	T	Black solid centre
Sage	Plain Rubber	9.5	A2	T	Black
Salad Burnet	Ribbed Rubber	14.0	B2	A	Black
Sorrel	Thin Plastic	5.0	A2	C	Black solid centre
Summer Savory	Thin Plastic	4.0	A2	C	Black solid centre
Sweet Fennel	Plain Rubber	14.5	A2	T	Black
Thyme	Thin Plastic	4.5	A2	C	Black solid centre
Wild Celery	Thin Plastic	6.0	A2	C	Black solid centre

SEED SETTING GUIDE - NATURAL FLOWER SEED

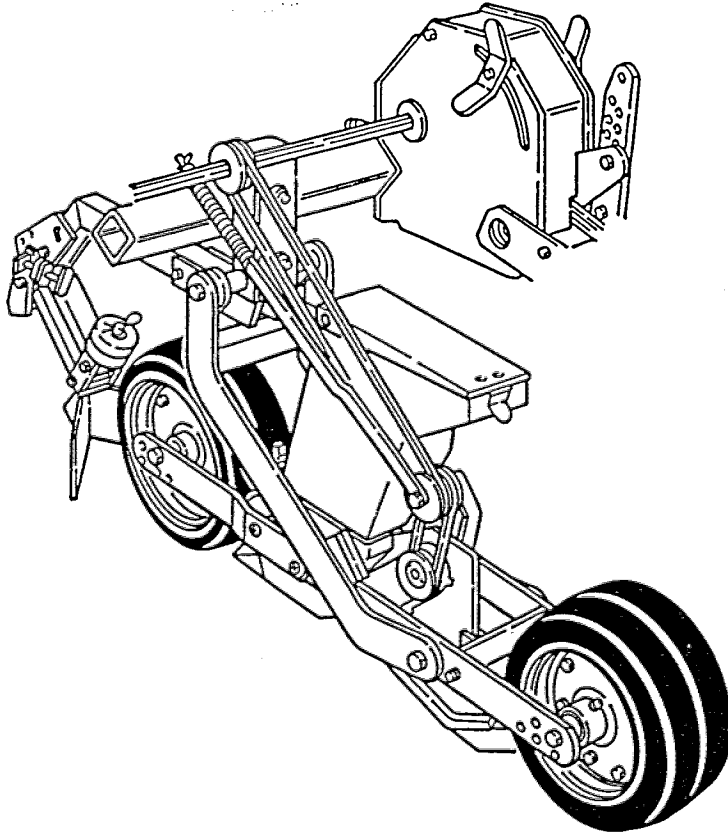
Seed	Seed Belt	Hole Size	Spring Base	Choke	Repeller Tyre
Agrostis Nebulos	Thin Plastic	5.0	A2	C	Black solid centre
Amaranthus gangeticus	Thin Plastic	4.5	A2	C	Black solid centre
Amaranthus lividus	Thin Plastic	4.5	A2	C	Black solid centre
Amaranthus paniculatus	Thin Plastic	4.5	A2	C	Black solid centre
Ambrosinia	Thin Plastic	4.0	A2	C	Black solid centre
Ammi Majus	Thin Plastic	7.5	A2	T	Black solid centre
Ammobium alarum	Thin Plastic	11.0	A2	T	Black solid centre
Anemone 1-2 cm	Ribbed Rubber	32.0	D2	P or nil	Black
Anemone 2-3 cm	Ribbed Rubber	38.0	U2	nil	Black
Anemone 3-4 cm	Ribbed Rubber	49.0	V2	nil	Black
Antirrhinum	Thin Plastic	4.0	A2	C	Black solid centre
Aster	Thin Plastic	13.0	A2	T	Black solid centre
Aster Matsumoto	Plain Rubber	10.0	A2	T	Black
Atriplex Hortensis	Thin Plastic	10.0	A2	T	Black solid centre
Bells of Ireland	Plain Rubber	14.0	A2	A	Black
Briza Maxima	Ribbed Rubber	24.0	M2	P	Black
Briza Minor	Plain Rubber	10.0	A2	T	Black
Bupleurum	Thin Plastic	10.0	A2	T	Black solid centre
Calendula	Plain Rubber	26.0	A2	X	Black
Canary Paniset Macrocheta	Thin Plastic	8.0	A2	C	Black solid centre
Carthamus	Ribbed Rubber	22.0	C2	X	Black
Chrysanthemum	Plain Rubber	13.5	A2	T	Black
Clarkia	Thin Plastic	6.0	A2	T	Black solid centre
Clary	Plain Rubber	9.0	A2	T	Black
Cornflower	Ribbed Rubber	14.0	S2	A	Black
Delphinium	Plain Rubber	10.0	A2	T	Black
Ergrostis	Thin Plastic	7.5	A2	C	Black solid centre
Freesia	Plain Rubber	12.5	Z2	A	Black
Genopodium Cristata	Thin Plastic	8.0	A2	T	Black solid centre
Godetia	Thin Plastic	5 or 6.0	A2	C	Black solid centre
Gypsophila	Thin Plastic	7.0	A2	C	Black solid centre
Helicrysum	Thin Plastic	9.5	A2	T	Black solid centre
Heliophila	Thin Plastic	7.5	A2	C	Black solid centre

SEED SETTING GUIDE - NATURAL FLOWER SEED

Seed	Seed Belt	Hole Size	Spring Base	Choke	Repeller Tyre
Larkspur	Plain Black	8.5	A2	T	Black
Lavatera	Plain Black	11.0	A2	T	Black
Lepidium Ruderale	Thin Plastic	5.0	A2	C	Black solid centre
Lepidium Satinum	Thin Plastic	9.0	A2	C	Black solid centre
Lepidium Bossige	Thin Plastic	7.0	A2	C	Black solid centre
Limonium Suworowii (Pink Pokers)	Thin Plastic	4.0	A2	C	Black solid centre
Lonas Inodora	Thin Plastic	5.0	A2	C	Black solid centre
Lonas	Thin Plastic	6.0	A2	C	Black solid centre
Lupin	Ribbed Rubber	24.0	D2	B	Black
Matricoria	Thin Plastic	6.0	A2	C	Black solid centre
Molucella	Plain Rubber	12.0	A2	T	Black
Mysotis	Thin Plastic	4.5	A2	C	Black solid centre
Nigella	Plain Rubber	9.5	A2	T	Black
Pansy	Thin Plastic	7.0	A2	C	Black solid centre
Phalaris (Canary Grass)	Thin Plastic	12.0	A2	T	Black solid centre
Phleum Pratense Timothee	Thin Plastic	6.0	A2	C	Black solid centre
Phlox	Plain Rubber	9.5	A2	T	Black
Phlox Drummondii	Plain Rubber	10.0	A2	T	Black
Polypogon	Thin Plastic	4.0	A2	C	Black solid centre
Poppy	Thin Plastic	5 or 6.0	A2	C	Black solid centre
Pyrethrum	Thin Plastic	13.0	A2	T	Black solid centre
Saponaria	Thin Plastic	12.5	A2	T	Black solid centre
Saponaria Vaccaria	Plain Rubber	13.0	A2	T	Black
Scabiosa	Ribbed Rubber	24.0	C2	X	Black
Setaria Italica	Thin Plastic	8.5	A2	T	Black solid centre
Silene	Thin Plastic	6.0	A2	C	Black solid centre
Sorghum Nigrum	Plain Black	14.0	Z2		Black
Statice	Thin Plastic	11.5	A2	T	Black solid centre
Statice Suworowii	Thin Plastic	4.5	A2	C	Black solid centre
Stock	Thin Plastic	11.0	A2	T	Black solid centre
Sunflower *	Ribbed Rubber	26 - 36.0	D or M2	P	Black
Sweet William	Thin Plastic	7.5	A2	C	Black solid centre
Triticum Durum	Ribbed Rubber	20.0	S2	A	Black
Xeranthemum **	Thin Plastic	14.0	A2	A	Black solid centre

* Samples of seed required.

** Mix with French Chalk.



Stanhay 985

Parts Manual

PARTS ENQUIRIES

Stanhay Webb Limited
Exning
Newmarket
Suffolk
CB8 7HD
England.

Tel: 0638 577206
Fax: 0638 578359

WHEN ORDERING PARTS PLEASE QUOTE THE FOLLOWING INFORMATION:

1. Model - STANHAY 985
2. Order number.
3. Part number and description.

PLEASE NOTE:

The parts listed are not necessarily supplied as unit items, they may be part of an assembly or be packed in quantities.

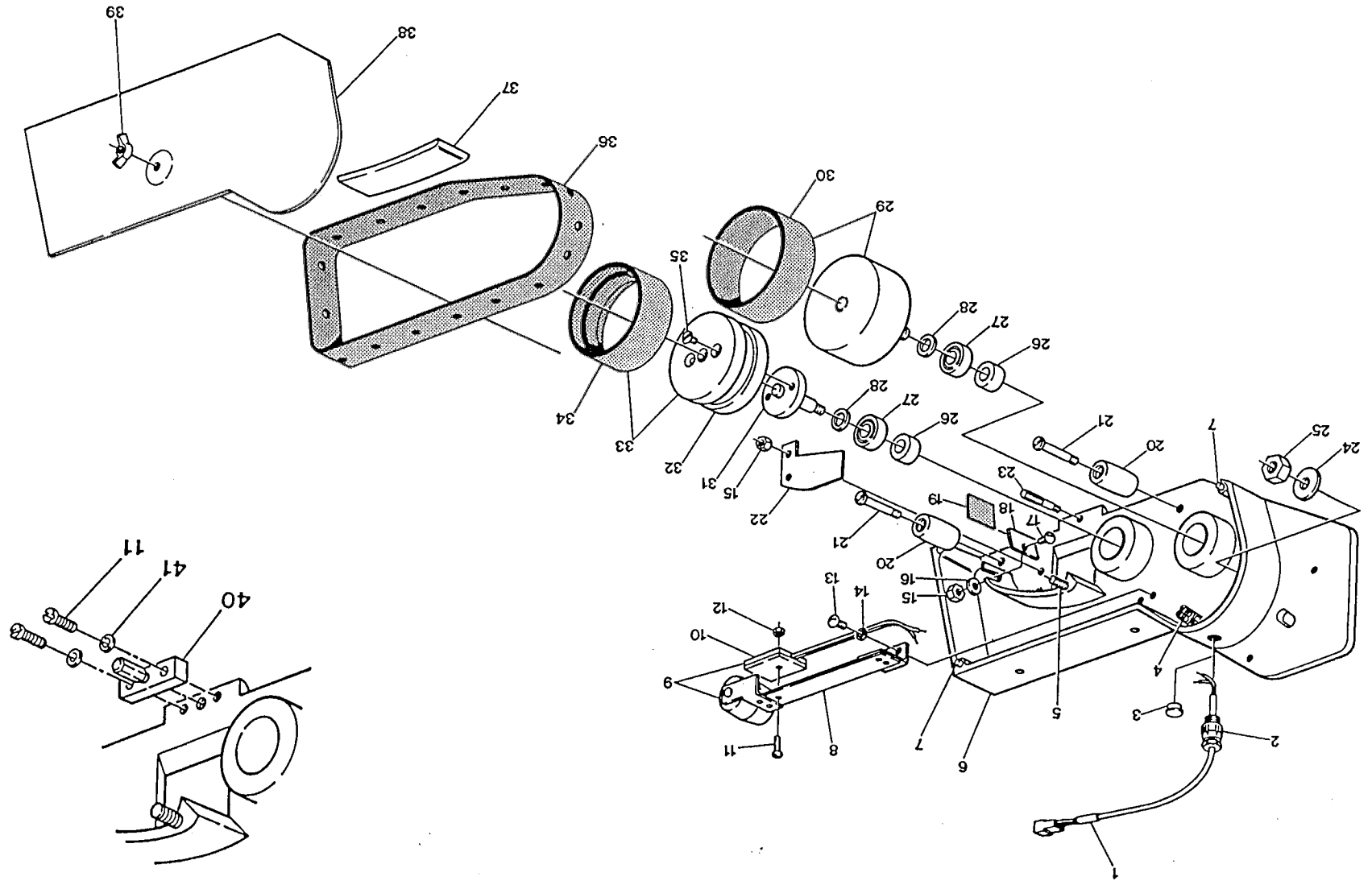
Some of the parts shown are optional extras and are not fitted as standard to new machines.

STANHAY 985

PARTS MANUAL

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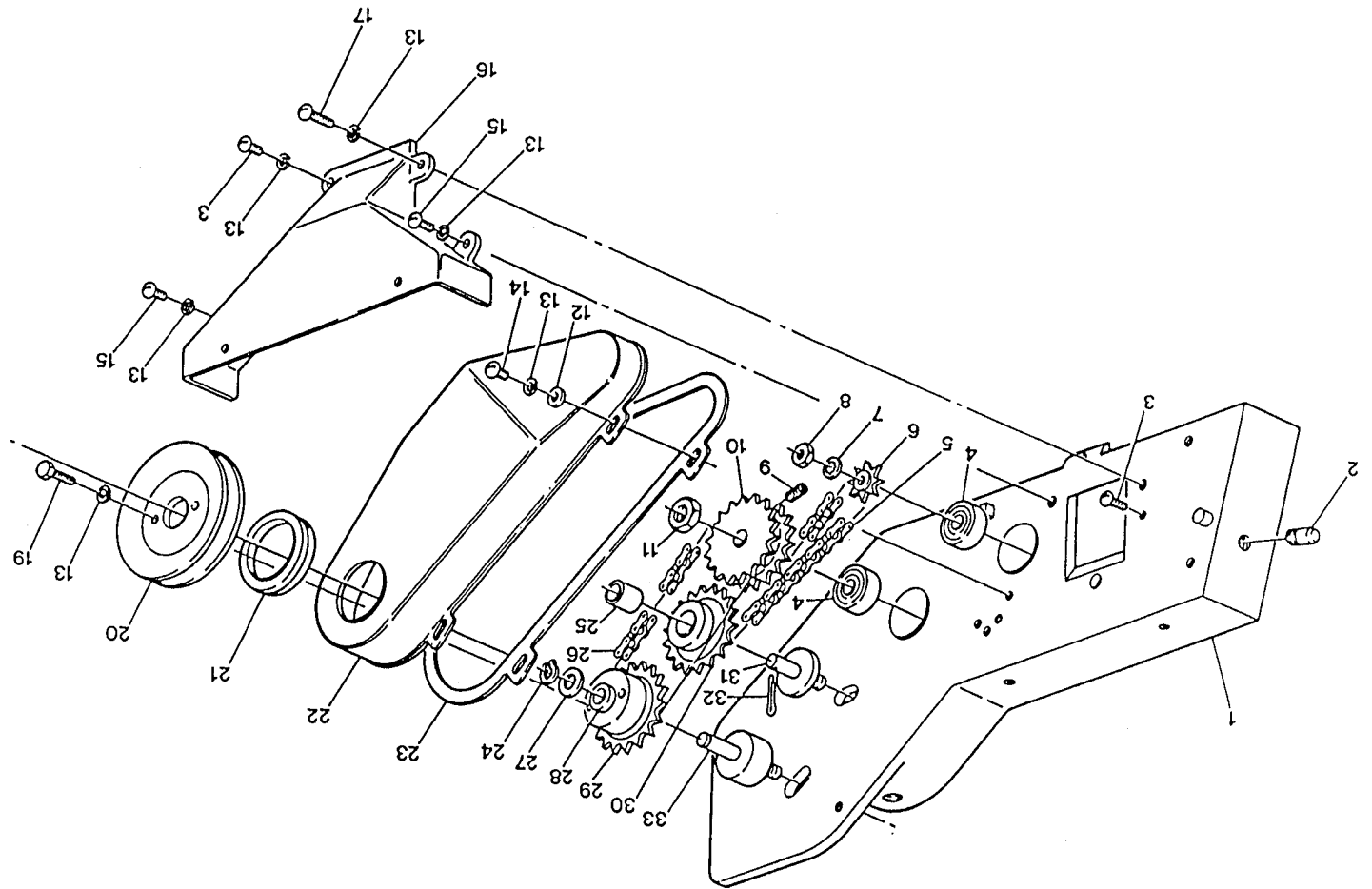


STANHAY 985

METERING UNIT - SEED BELT SIDE

Item No:	Part No:	Description:
1	5201040	Indicator Lead
2	5205004	Indicator Lead Gland
3	6402001	Protection Plug - above seed chamber flange
	6402031	Protection Plug - rear body flange - non electric drills only
4	5209051	Two way Connector
5	7000002	Seeder Body Stud
6	7702404	Seeder Body
7	7000003	Seeder Body Dowel
8	7702475	Belt Tensioner
9	7702476	Belt Tensioner & Reed Switch Assembly
10	5208050	Reed Switch c/w items 11 & 12
11	2335046	M3 x 12 Slotted Pan Head Screw
12	2303003	M3 Hexagon Nut
13	2318329	3/16 BSW x 3/8 Slotted Round Head Screw
14	2311213	M6 Spring Washer
15	2301015	3/16 BSW Hexagon Nut
16	2311132	M5 Flat Washer - large diameter
17	2318331	3/16 BSW x 1/2 Slotted Round Head Screw
18	6902110	Rubber Flap Clamp
19	6900011	Rubber Flap
20	*2810180	Fixed Roller - 8 Bore
21	*6902222	Fixed Roller Pin - 8 diameter
22	6900040	A-Choke
	6900041	B-Choke
	6900042	C-Choke
	6900043	P-Choke
	6900044	T-Choke
	6900045	X-Choke
23	6902238	Spring Base Pin (Hexagon)
24	2311090	M10 Flat Washer
25	2301018	3/8 BSW Hexagon Nut
26	6900016	Bearing Spacer
27	1901045	Ball Bearing
28	3220002	Spacing Shim - 0.13mm
	3220003	Spacing Shim - 0.25mm
29	7700006	Belt Wheel and Tyre - item 30
30	2820001	Belt Wheel Tyre
31	6902067	Repeller Spindle
32	2810174	Plastic Repeller Wheel
33	7702102	Standard (Black) Repeller Assembly
	7702453	Polymer (Brown) Repeller Assembly
	7703139	Black (Solid Centre) Repeller Assembly
34	2820002	Standard (Black) Tyre
	2830033	Polymer (Brown) Tyre
	2820042	Black Solid Centre Tyre
35	2333102	M5 x 8 Countersunk Head Screw
36		Seed Belt - state type required
37		Spring Base - state type required
38	7400002	Body Cover Plate
39	2301437	1/4 BSW Wing Nut
40	7703070	Spring Base Pin & Block Assembly
41	2311085	M3 Flat Washer

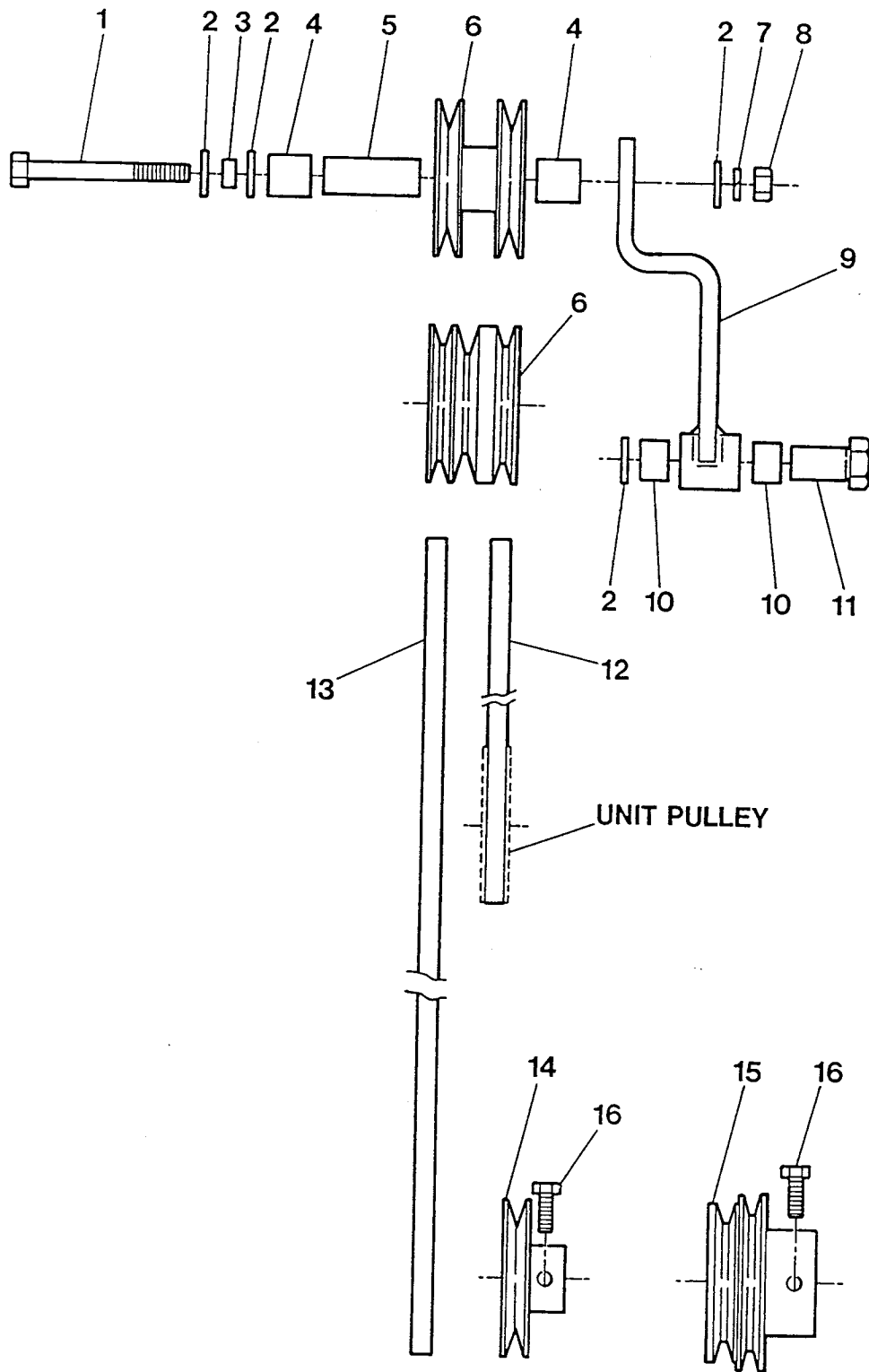
* We recommend that items 20 and 21 are purchased as sets.



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METERING UNIT - DRIVE SIDE

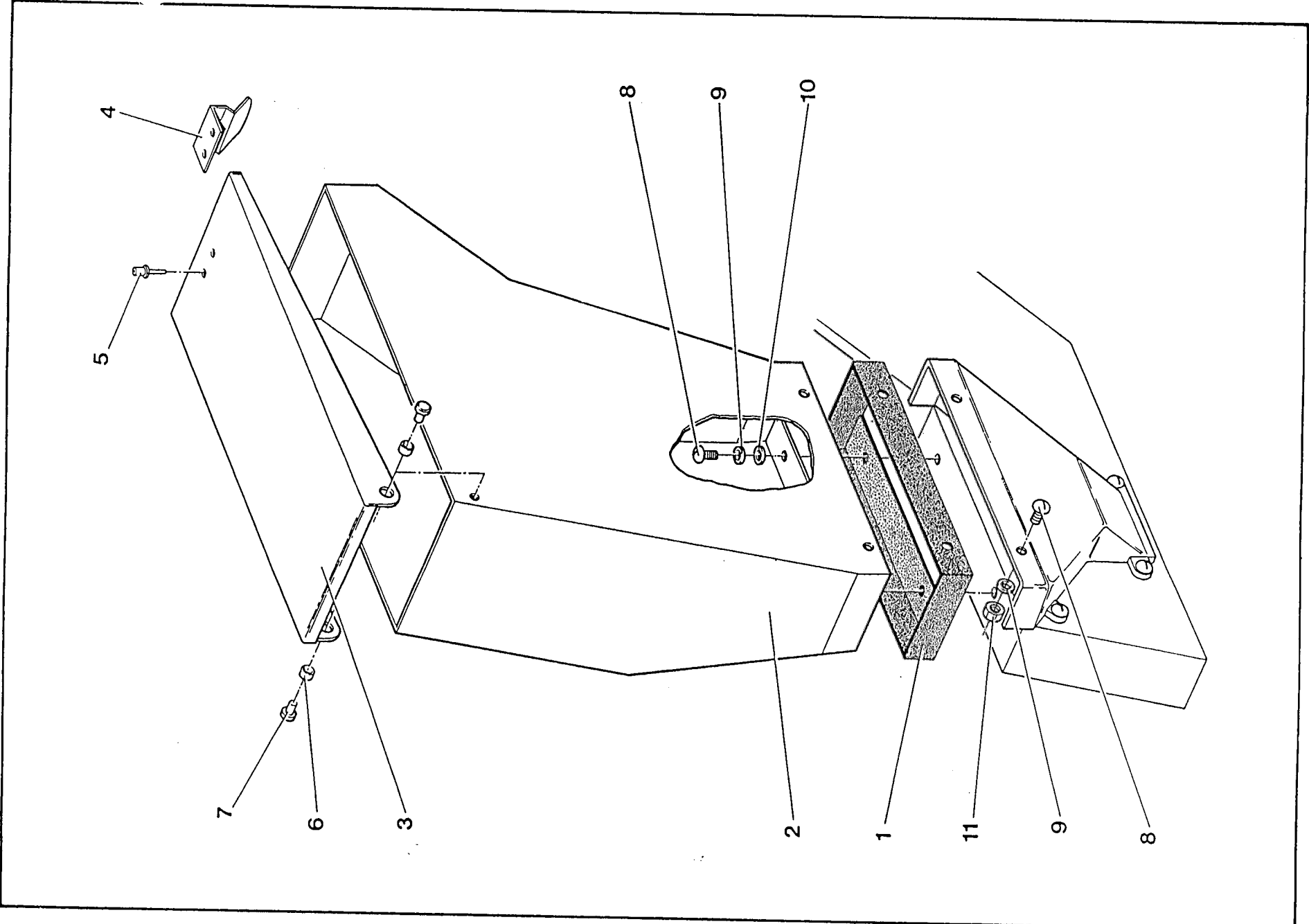
Item No:	Part No:	Description:
1	7702404	Seeder Body
2	7000004	Coulter Peg
3	2318331	3/16 BSW x 1/2 Slotted Round Head Screw
4	1901023	Ball Bearing
5	1801002	Chain - 48 pitches
6	1701014	Repeller Sprocket
7	2310506	1/4 Shakeproof Washer
8	2301161	1/4 BSF Hexagon Locknut
9	2260135	3/16 BSW x 5/16 in. Socket Set Screw
10	7700004	Belt Wheel Sprocket c/w item 9
11	2301163	3/8 BSF Hexagon Locknut
12	2310111	2BA Flat Washer
13	2311213	M5 Spring Washer
14	2318329	3/16 BSW x 3/8 Slotted Round Head Screw
15	2318330	3/16 BSW x 7/16 Slotted Round Head Screw
16	3000027	Seeder Chute
17	2318334	3/16 BSW x 3/4 Slotted Round Head Screw
18	2317003	V-belt
19	6902366	3/16 BSW x 3/4 Hexagon Head Screw
20	7400001	Driving Sprocket Pulley
21	4001001	V-ring Seal
22	3210008	Chaincase
23	3900001	Chaincase Gasket
24	2216046	Circlip
25	2001005	Oilite Bearing
26	1801001	Chain - 46 pitches
27	3220001	Spindle Shim
28	2001009	Oilite Bearing
29	7702101	Driving Sprocket c/w item 28
30	7702100	Idler Sprocket c/w item 25
31	6900006	Idler Sprocket Spindle
32	2214057	3/32 x 3/4 Split Pin
33	6900013	Driving Sprocket Spindle



STANHAY 985

METERING UNIT - KNEE JOINT & DRIVE

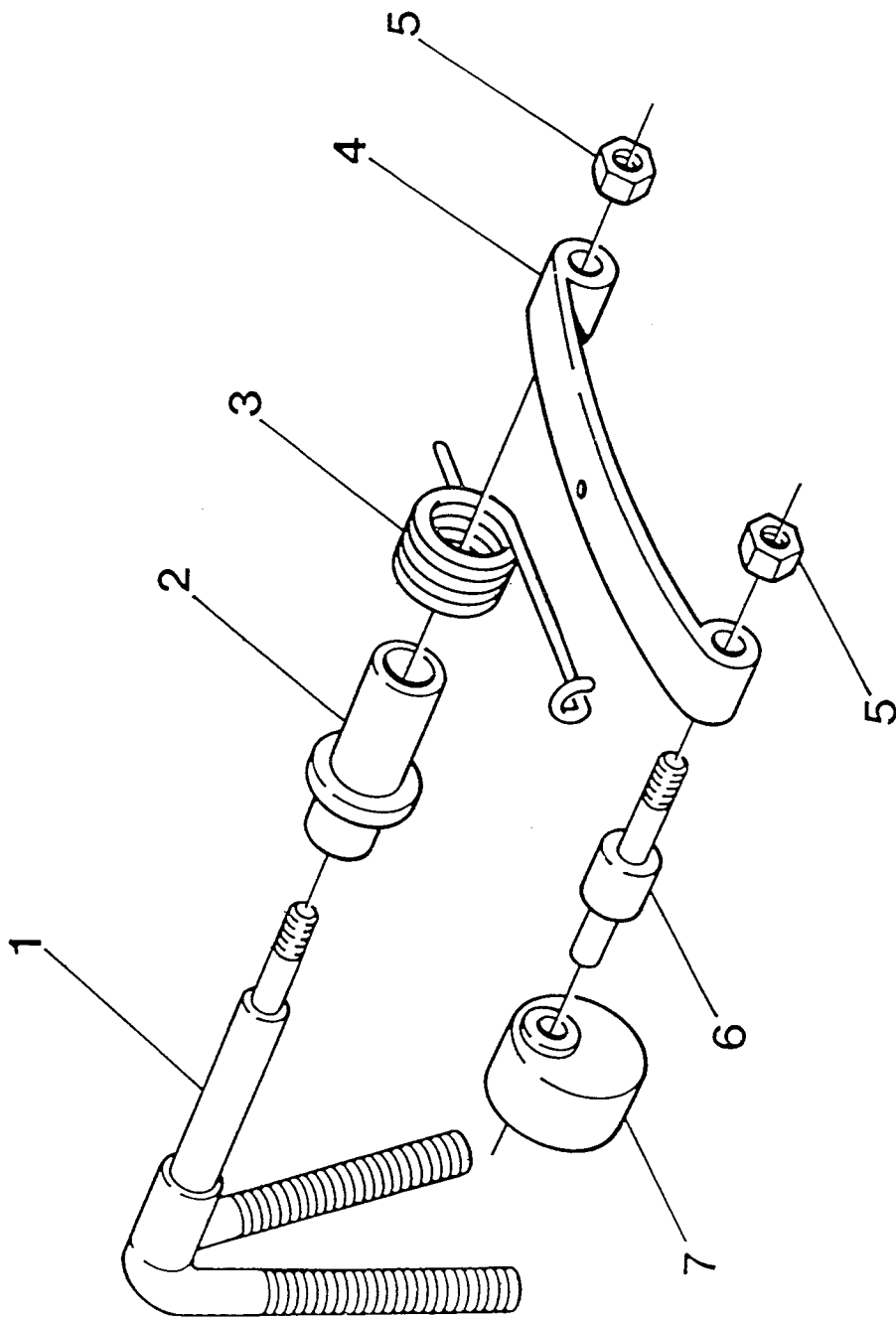
Item No:	Part No:	Description:
1	2306074	M10 x 80 Hexagon Head Bolt
2	2310090	M10 Flat Washer
3	7000022	Seeder Clamp Spacer
4	2001002	Oilite Bearing
5	6900021	Pulley Hub Spacer
6	7700010	Twin Pulley c/w item 4
	7700584	Triple Pulley c/w item 4
7	2311216	M10 Spring Washer
8	2303008	M10 Hexagon Nut
9	7000009	Knee Joint Arm c/w item 10
10	2001011	Oilite Bearing
11	6900020	Knee Joint Spindle
12	1308010	V-belt
13	1308055	V-belt
14	7700011	Single Shaft Pulley c/w item 16
15	7700845	Double Shaft Pulley c/w item 16
16	2308341	1/4 UNC x 3/4 Hexagon Head Screw



STANHAY 985

SEED HOPPER

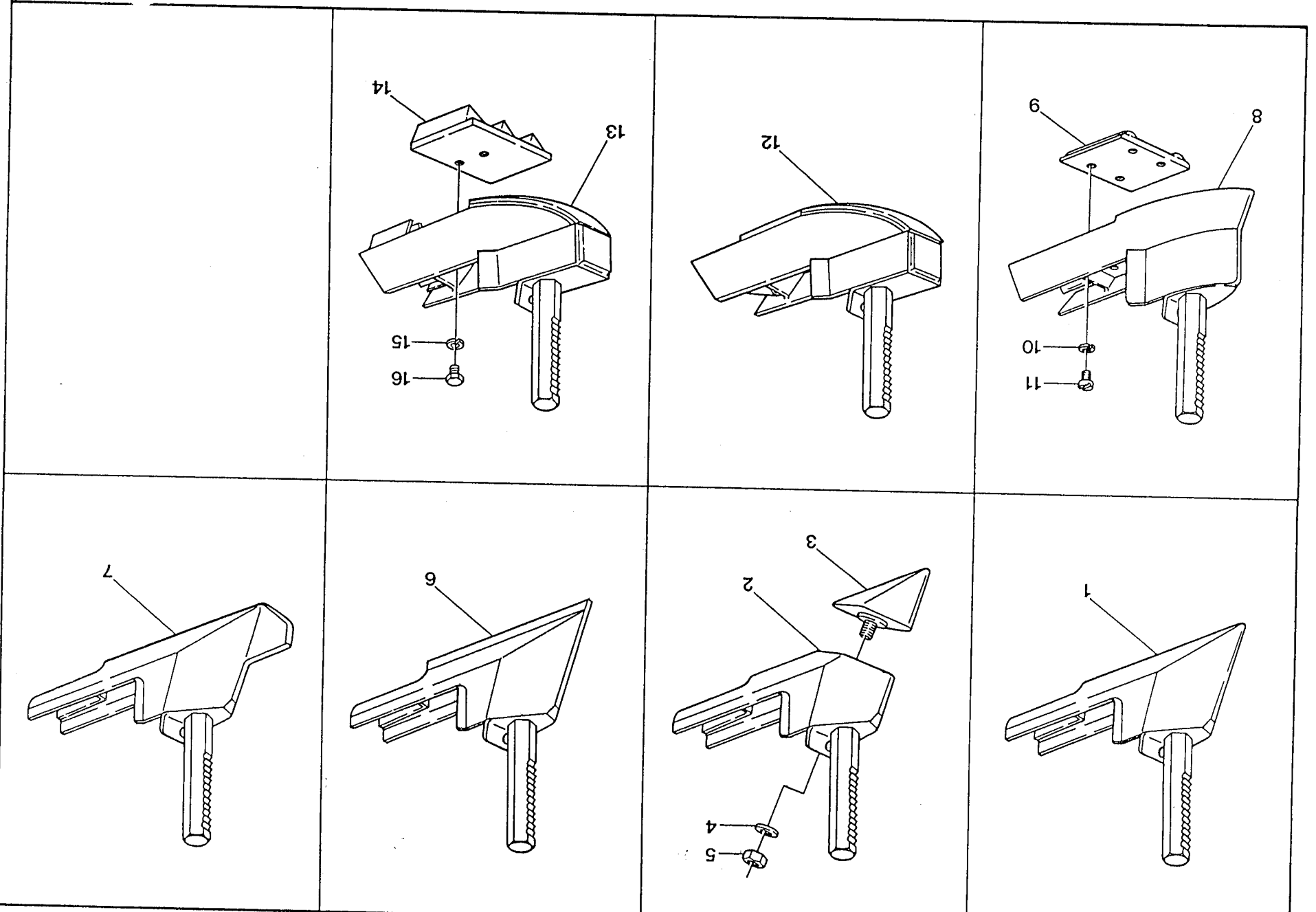
Item No:	Part No:	Description:
1	2820003	Chute Seal
2	7402144	Hopper - without monitor fixing
	7402335	Hopper - with monitor fixing
3	8002645	Hopper Lid Kit (items 4-7)
4	2705003	Lid Clp
5	2212562	Pop Rivet
6	6900018	Hinge Spacer
7	2212563	Pop Rivet
8	2318331	3/16 BSW x 1/2 Slotted Round Head Screw
9	2311213	M5 Spring Washer
10	2311132	M5 Flat Washer - large diameter
11	2301015	3/16 BSW Hexagon Nut



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AGITATOR

Item No:	Part No:	Description
1	7701097	Agitator
2	6900023	Agitator Bush
3	2703001	Agitator Torsion Spring
4	6900025	Agitator Arm
5	2301014	1/8 BSW Hexagon Nut
6	6900024	Agitator Eccentric Spindle
7	2810010	Agitator Eccentric
	KIT	
	8000007	Agitator Kit



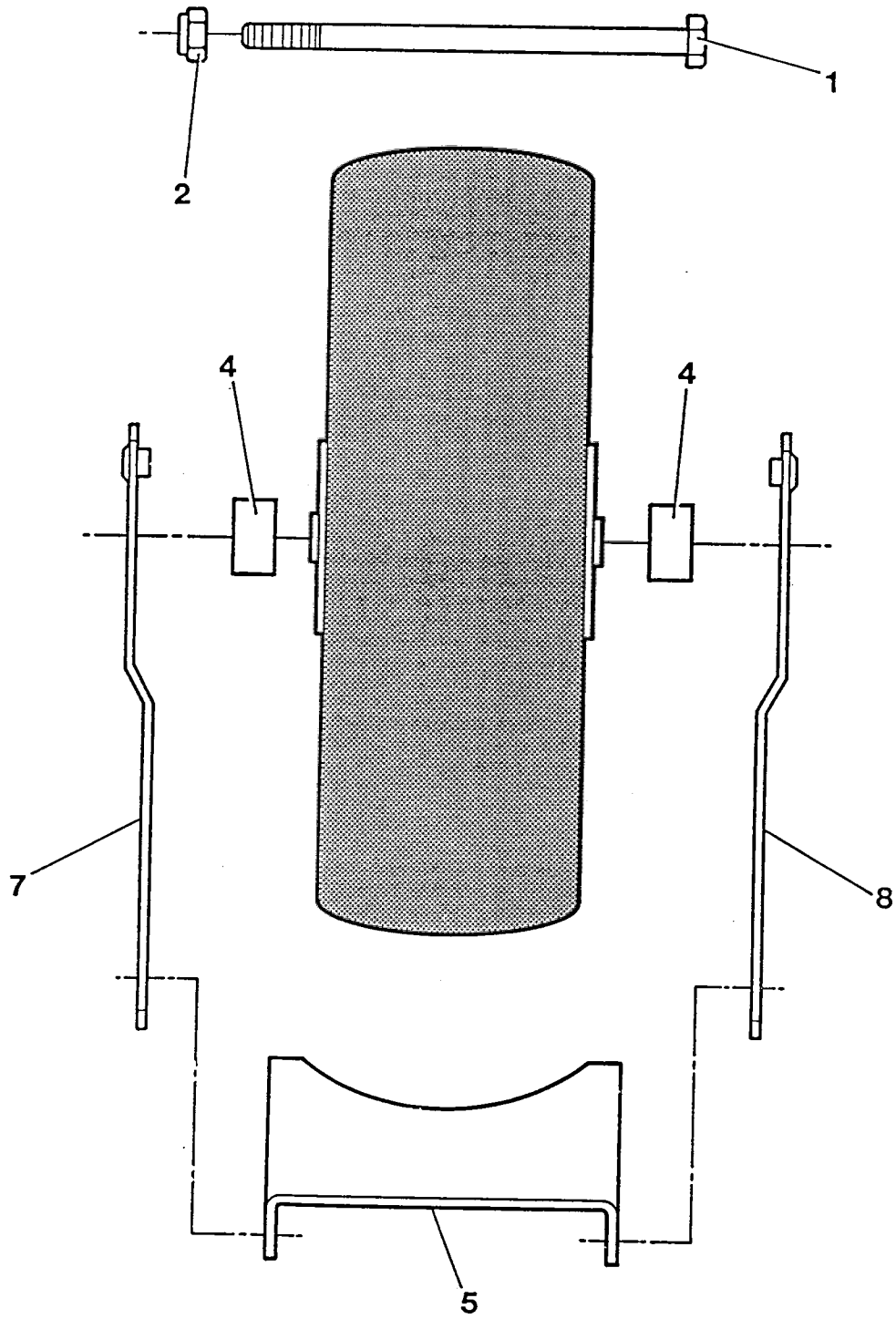
STANHAY 985

COULTERS

Item No:	Part No:	Description:
1	7400034	General Purpose Coultter - Steel
2	7702270	General Purpose Coultter - Ceramic
	7402318	Coultter - Ceramic - Body Only
3	8002157	Ceramic Tip c/w items 4, 5
4	2311090	M10 Flat Washer
5	2303008	M10 Hexagon Nut
6	7401059	Keeled Coultter - EXPORT
7	7402628	Curved Nose Coultter (no rear fin)
8	7700042	25mm x 3 rib Coultter Assembly
	7700044	50mm x 2 rib Coultter Assembly
	7700046	38mm x 3 rib Coultter Assembly
	7700048	76mm x 2 rib Coultter Assembly
9	8010040	25mm x 3 rib Coultter Base c/w items 10,11
	8010038	50mm x 2 rib Coultter Base c/w items 10,11
	8010041	38mm x 3 rib Coultter Base c/w items 10,11
	8010039	76mm x 2 rib Coultter Base c/w items 10,11
10	2310401	1/4 Spring Washer
11	2319360	1/4 BSW x 1/2 Slotted Cheese Head Screw
12	7402878	100mm Band Coultter
13	7702787	100mm x 3 rib Coultter Assembly
14	8010037	100mm x 3 rib Coultter Base c/w items 15,16
15	2311215	M8 Spring Washer
16	2309045	M8 x 12 Hexagon Head Screw

KITS

8002159	Ceramic Coultter (Box of 2)
8002158	Ceramic Coultter Tips (Box of 4)



STANHAY 985

ZERO PRESSURE WHEEL

(Will fit front or rear)

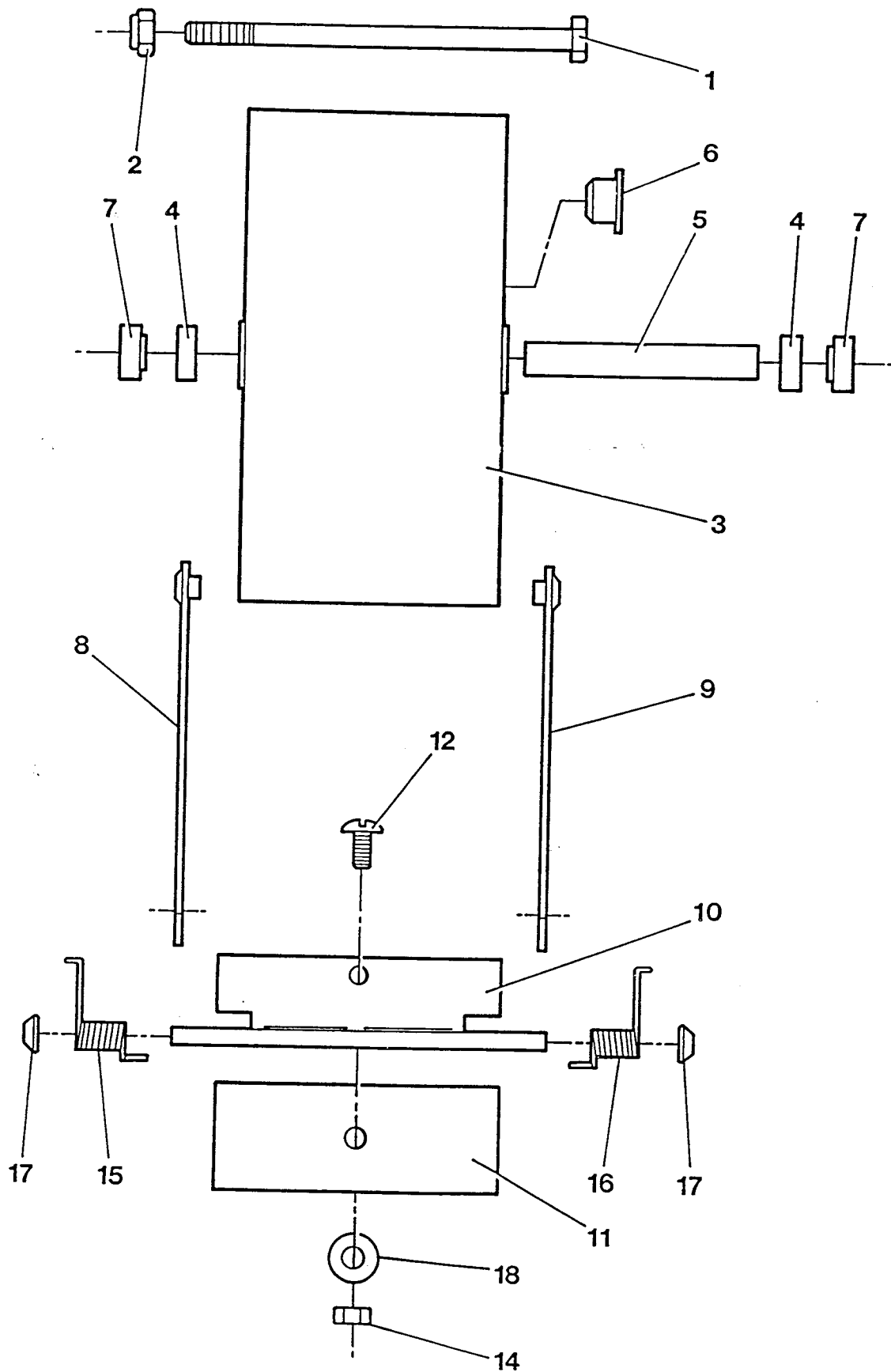
Item No:	Part No:	Description:
1	2306084	M10 x 180 Hexagon Head Bolt
2	2303109	M10 Nyloc Hexagon Nut - thin
3	5700145	Zero Pressure Wheel
	5700174	Zero Pressure Tyre
	5700173	Wheel Disc & Hub
	5700172	Wheel Disc
	5700176	Seal
	1901104	Ball Bearing
	2217003	Circlip
	2303007	M8 Hexagon Nut
	2309046	M8 x 16 Hexagon Head Screw
	2311215	M8 Spring Washer
	6401005	M6 Straight Greaser
4	6902058	Wheel Spacer
	KITS	
	8002656	Zero Pressure Wheel Kit (items 1-4) will fit front or rear

FRONT FITTING SCRAPER

2	2303109	M10 Nyloc Hexagon Nut - thin
5	6902657	Wheel Scraper
6	2377108	M10 x 35 Socket Button Head Screw
	KIT	
	8002674	Zero Pressure Wheel Scraper Kit (items 2,5,6)

REAR FITTING SCRAPER

2	2303109	M10 Nyloc Hexagon Nut
5	6902657	Wheel Scraper
6	2377104	M10 x 16 Socket Button Head Screw
7	7403247	Scraper Frame Side L/H
8	7403248	Scraper Frame Side R/H
	KIT	
	8002857	Zero Pressure Wheel Scraper Kit (items 2, 5-8)



STANHAY 985

120mm WIDE STAINLESS STEEL WHEEL

(Will fit front or rear)

Item No:	Part No:	Description:
1	2306084	M10 x 180 Hexagon Head Bolt
2	2303109	M10 Nyloc Hexagon Nut - thin
3	7702614	120 Wide Wheel c/w items 4,5,6
4	1901045	Ball Bearing
5	6902390	Bearing Spacer
6	2830001	Rubber Bung
7	6902620	Wheel Spacer
8	7403009	Scraper Frame Side L/H
9	7403010	Scraper Frame Side R/H
10	7403011	120 Scraper Plate
11	6902659	120 Scraper Blade
12	2390052	M8 x 16 Roofing Bolt
14	2303007	M8 Hexagon Nut
15	2703012	Scraper Spring L/H
16	2703013	Scraper Spring R/H
17	2211365	M8 Starlock Washer - Capped
18	2311089	M8 Flat Washer

KITS

8002661	120 Wide Wheel Kit (items 1,2,3,7)
8002665	120 Wheel Scraper Kit (items 8-18)
8002657	120 Wide Wheel & Scraper Kit (items 1,2,3, 7-18)

160mm WIDE STAINLESS STEEL WHEEL

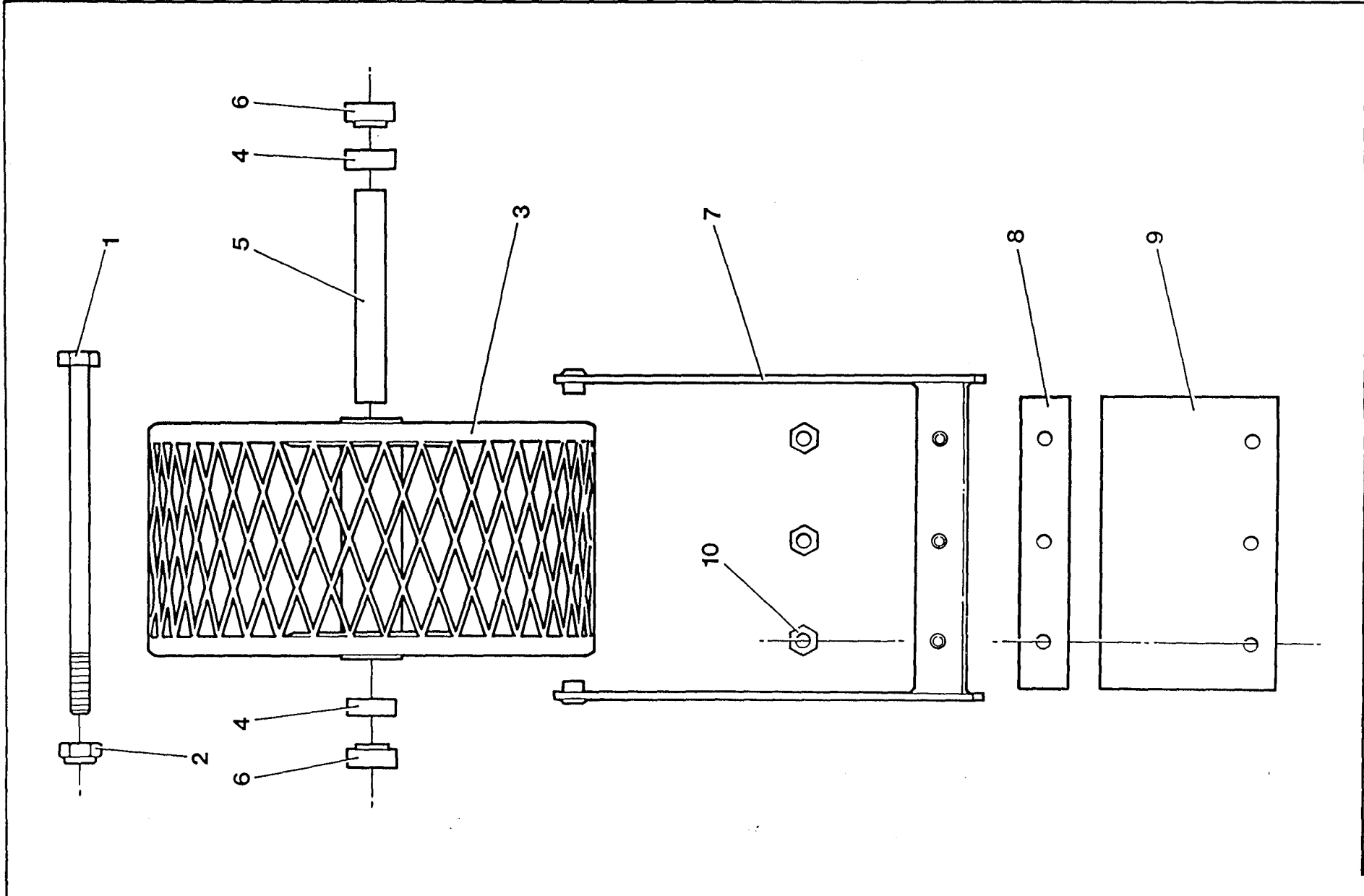
(Will fit front or rear)

Chassis must be fitted with rear extensions

1	7403008	160 Wheel Bolt
2	2303109	M10 Nyloc Hexagon Nut - thin
3	7702840	160 Wide Wheel c/w items 4,5,6
4	1901045	Ball Bearing
5	6902610	Bearing Spacer
6	2830001	Rubber Bung
7	2311112	M10 Flat Washer - thin (2 off per side)
8	7403009	Scraper Frame Side L/H
9	7403010	Scraper Frame Side R/H
10	7403012	160 Scraper Plate
11	6902660	160 Scraper Blade
12	2390052	M8 x 16 Roofing Bolt
14	2303007	M8 Hexagon Nut
15	2703012	Scraper Spring L/H
16	2703013	Scraper Spring R/H
17	2211365	M8 Starlock Washer - capped
18	2311089	M8 Flat Washer

KITS

8002662	160 Wide Wheel Kit (items 1,2,3,7)
8002666	160 Wheel Scraper Kit (items 8-18)
8002658	160 Wide Wheel & Scraper Kit (items 1,2,3, 7-18)



STANHAY 985

120mm WIDE CAGE WHEEL

Item No:	Part No:	Description:
1	2306084	M10 x 180 Hexagon Head Bolt
2	2303109	M10 Nyloc Hexagon Nut - thin
3	7702723	120 Cage Wheel c/w items 4 & 5
4	1901045	Ball Bearing
5	6902390	Bearing Spacer
6	6902620	Wheel Spacer
7	7402947	120 Cleaner Frame
8	6902608	120 Cleaner Clamp Plate
9	6902609	120 Cage Wheel Cleaner
10	2303091	M6 Nyloc Hexagon Nut

KITS

8002663	120 Cage Wheel Kit (items 1,2,3,6)
8002667	120 Cage Wheel Cleaner Kit (items 7-10)
8002659	120 Cage Wheel & Cleaner Kit (items 1,2,3,6, 7-10)

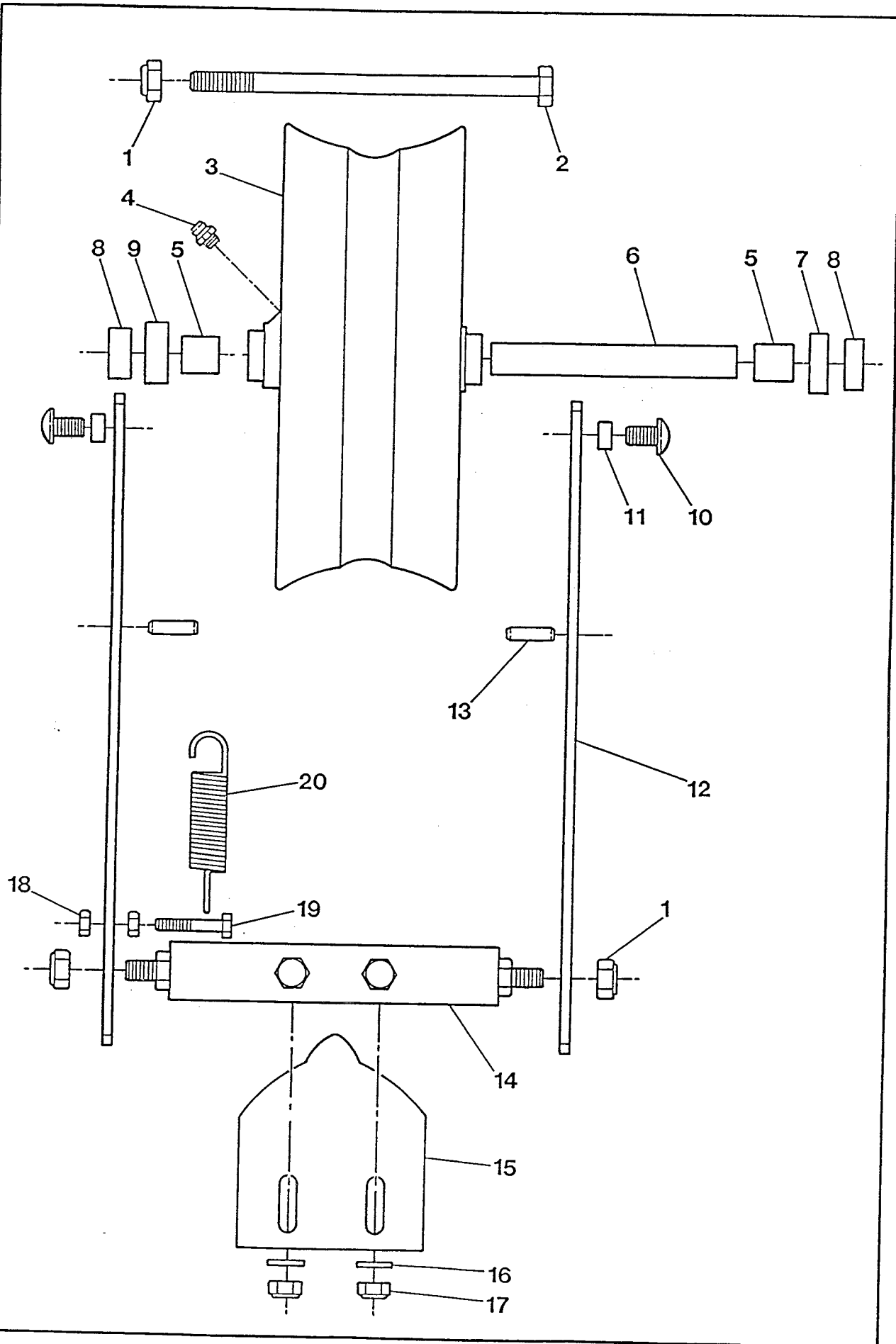
160mm WIDE CAGE WHEEL

Chassis must be fitted with rear extensions

1	7403008	160 Wheel Bolt
2	2303109	M10 Nyloc Hexagon Nut - thin
3	7702842	160 Cage Wheel c/w items 4 & 5
4	1901045	Ball Bearing
5	6902610	Bearing Spacer
6	2311112	M10 Flat Washer - thin (2 off per side)
7	7403019	160 Cleaner Frame
8	6902621	160 Cleaner Clamp Plate
9	6902622	160 Cage Wheel Cleaner
10	2303091	M6 Nyloc Hexagon Nut

KITS

8002664	160 Cage Wheel Kit (items 1,2,3,6)
8002668	160 Cage Wheel Cleaner Kit (items 7-10)
8002660	160 Cage Wheel & Cleaner Kit (items 1,2,3,6,7-10)



STANHAY 985

CONCAVE WHEEL

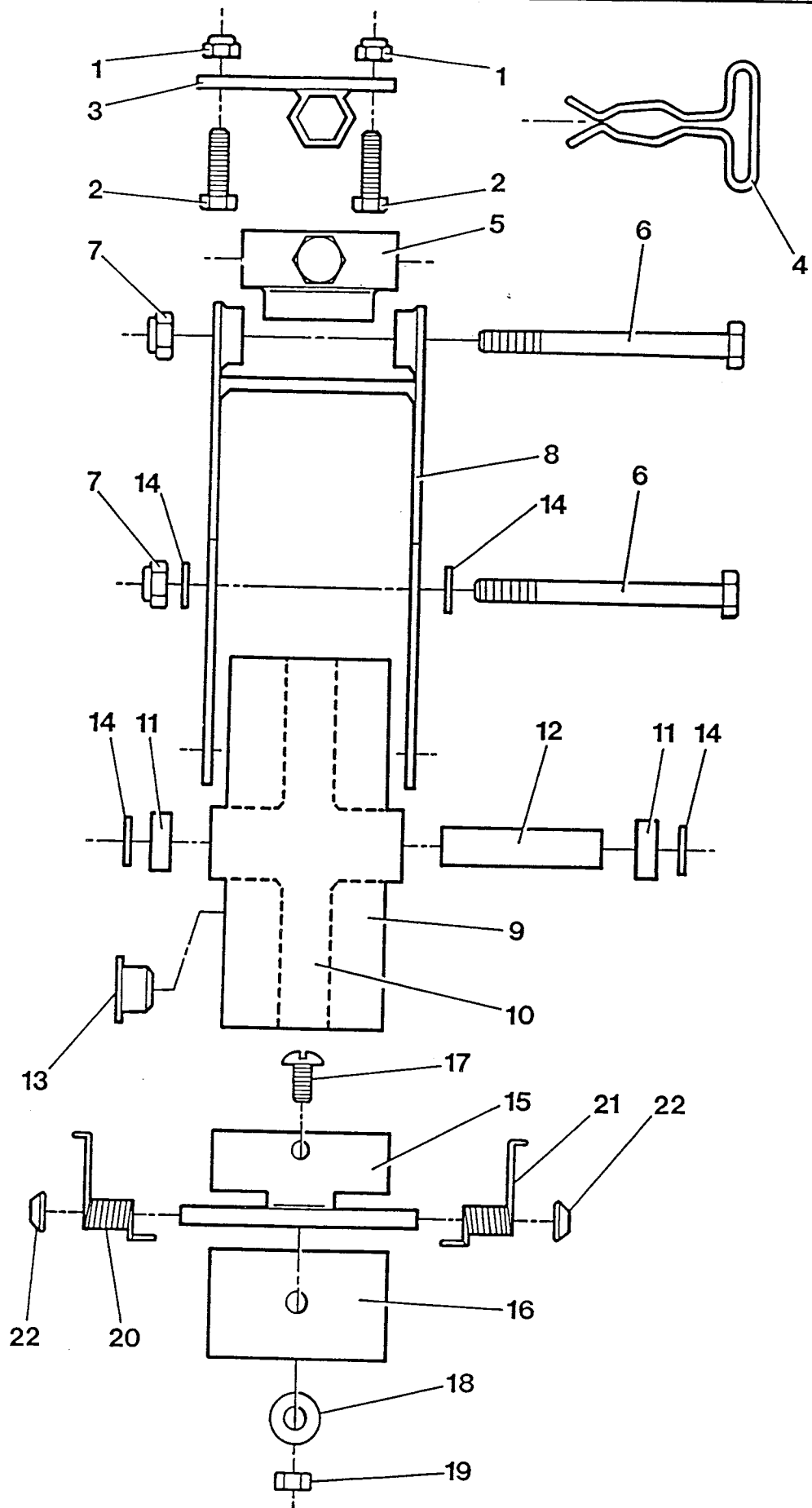
Item No:	Part No:	Description:
1	2303109	M10 Nyloc Hexagon Nut - thin
2	2306084	M10 x 180 Hexagon Head Bolt
3	7702473	Concave Wheel c/w items 4 & 5
4	6401006	M8 Straight Greaser
5	2001002	Oilite Bearing
6	6902016	Landwheel Spacer
7	3210032	Dust Cap
8	6902619	Wheel Spacer
9	6902091	Spacer Dust Cap
*10	2377104	M10 x 16 Socket Button Head Screw
**	2377108	M10 x 35 Socket Button Head Screw
11	6902658	Arm Coverer Spacer
12	6902820	Scraper Frame Side
13	2215298	6 x 24 Tension Pin
14	7403220	Scraper X-piece
15	6902221	Concave Wheel Scraper
16	2311089	M8 Flat Washer
17	2303092	M8 Nyloc Hexagon Nut
18	2303006	M6 Hexagon Nut
19	2306017	M6 x 35 Hexagon Head Bolt
20	2702002	Tension Spring

* Use on 'short' chassis

** Use on 'long' chassis

KITS

8002726	Concave Wheel Kit (items 1-9)
8002836	Concave Wheel Scraper Kit (items 10-20)
8002884	Concave Wheel & Scraper Kit (items 1-20)



STANHAY 985

SEED PRESS WHEEL

Item No:	Part No:	Description:
1	2303092	M8 Nyloc Hexagon Nut
2	2309049	M8 x 30 Hexagon Head Screw
3	7403018	P/W Stem Bracket
4	2705001	Coulter Clip
5	7403069	P/W Stem - 25/74
	7403060	P/W Stem - 94
	*2306077	M10 x 110 Hexagon Head Bolt
	**2306078	M10 x 120 Hexagon Head Bolt
	***2306079	M10 x 130 Hexagon Head Bolt
7	2303109	M10 Nyloc Hexagon Nut - thin
8	7403014	P/W Frame - 25/74
	7303059	P/W Frame - 94
9	7702919	74mm Press Wheel c/w items 11,12,13
	7702951	94mm Press Wheel c/w items 11,12,13
10	7702917	25mm Press Wheel c/w items 11,12,13
11	1901045	Ball Bearing
12	6902662	Bearing Spacer - 25/74
	6902685	Bearing Spacer - 94
13	2830001	Rubber Bung
14	2311090	M10 Flat Washer
15	7403013	P/W Scraper Plate - 25/74
	7403062	P/W Scraper Plate - 94
16	6902661	P/W Scraper Blade - 25/74
	6902686	P/W Scaper Blade - 94
17	2390052	M8 x 16 Roofing Bolt
18	2311089	M8 Flat Washer
19	2303007	M8 Hexagon Nut
20	2703012	Scraper Spring L/H
21	2703013	Scraper Spring R/H
22	2211365	M8 Starlock Washer - capped

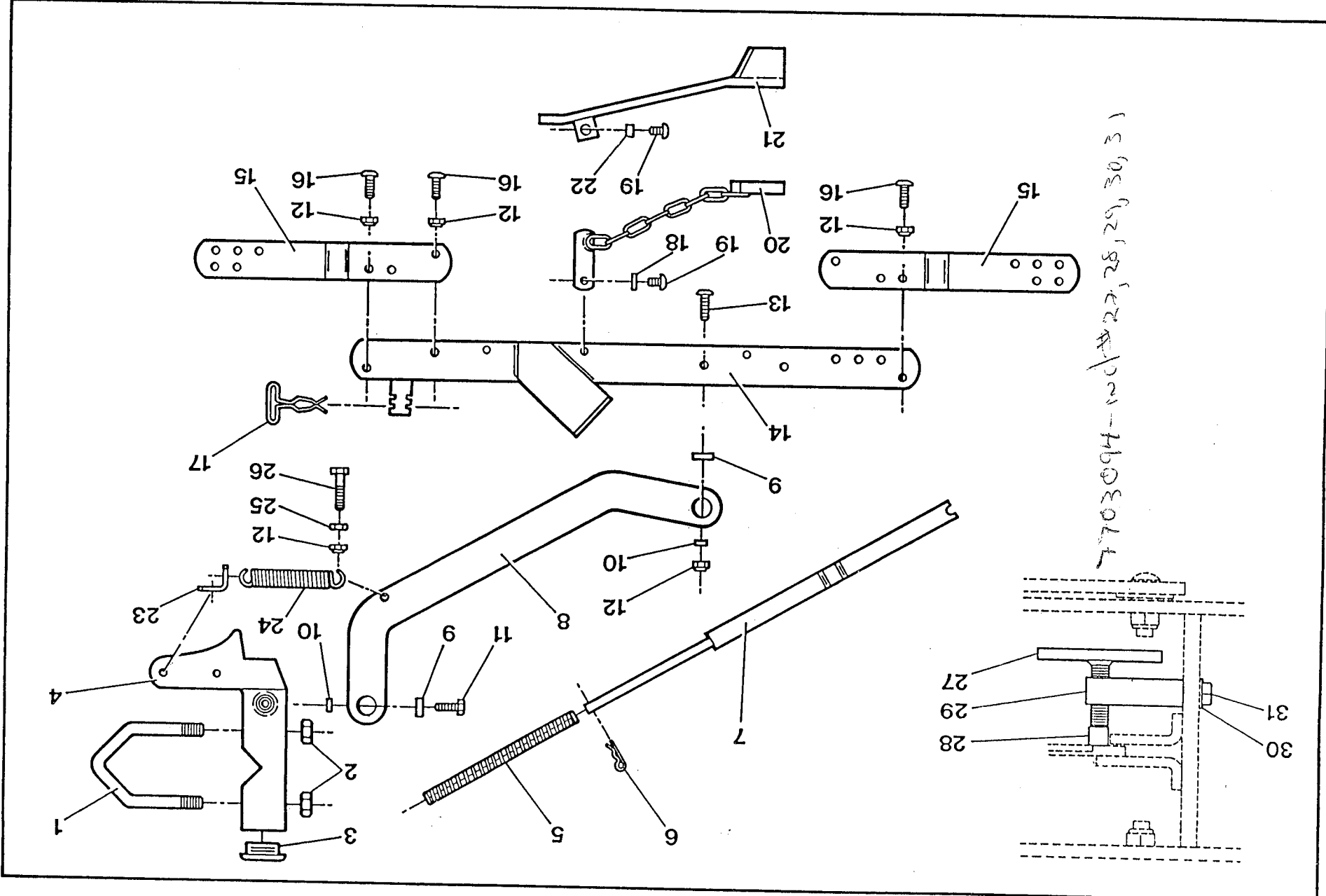
* at pivot)
** at wheel centre) - 25/74 Press Wheel
*** at pivot & wheel centre - 94 Press Wheel

NOT ILLUSTRATED

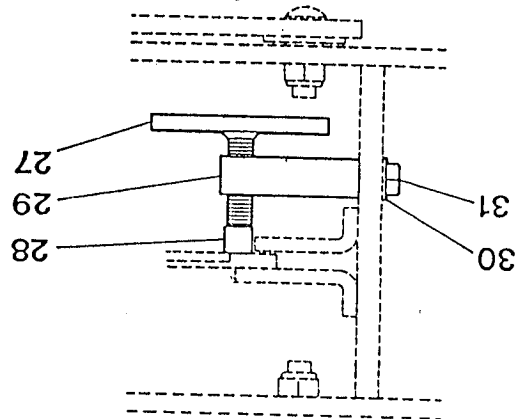
7403063 Press Wheel Weight Frame - 25/74
7403064 Press Wheel Weight Frame - 94
2303166 M10 Wing Nut

ASSEMBLIES

7702960 25mm Press Wheel & Weight Frame
7702961 74mm Press Wheel & Weight Frame
7702955 94mm Press Wheel & Weight Frame



7703094-w/27, 28, 29, 30, 31



STANHAY 985

CHASSIS

Item No:	Part No:	Description:
1	8002125	7001093 U-Bolt c/w item 2
2	2303010	M16 Hexagon Nut
3	6402015	Plastic Plug
4	7402844	Chassis Stem
5	2701001	Knee Joint Spring
6	2316033	R-clip
7	7400007	Spring Rod
8	7702914	Chassis Arms c/w item 9
9	1901045	Ball Bearing
10	6902090	Pivot Spacer
11	2309404	M10 x 30 Hexagon Head Screw - Esloc 'A'
12	2303109	M10 Nyloc Hexgon Nut - thin
13	2377108	M10 x 35 Socket Button Head Screw
14	7403005	Chassis
*15	6902655	Chassis Extension L/H
	6902656	Chassis Extension R/H
16	2377107	M10 x 30 Socket Button Head Screw
17	2705001	Coulter Clip
18	2311090	M10 Flat Washer
19	2377104	M10 x 16 Socket Button Head Screw
20	7403049	Drag Coverer
21	7403055	Arm Coverer L/H - long - multi line
	7403007	Arm Coverer R/H - short - multi line
	7403226	Arm Coverer L/H - long - single line
	7403227	Arm Coverer R/H - short - single line
22	6902658	Arm Coverer Spacer
23	6902752	Chassis Spring Bracket
24	2702027	Tension Spring
25	2303008	M10 Hexagon Nut
26	2306068	M10 x 50 Hexagon Head Bolt
27	7403051	Unit Clamp Screw
28	6902683	Clamp Screw Anvil
**29	6902797	Clamp Screw Post - 55mm long
	6902682	Clamp Screw Post - 60mm long
30	2311089	M8 Flat Washer
31	2309048	M8 x 25 Hexagon Head Screw

7703094 }
 }
 }
 }

Note: Coverer blade length: 50mm - multi line
 95mm - single line

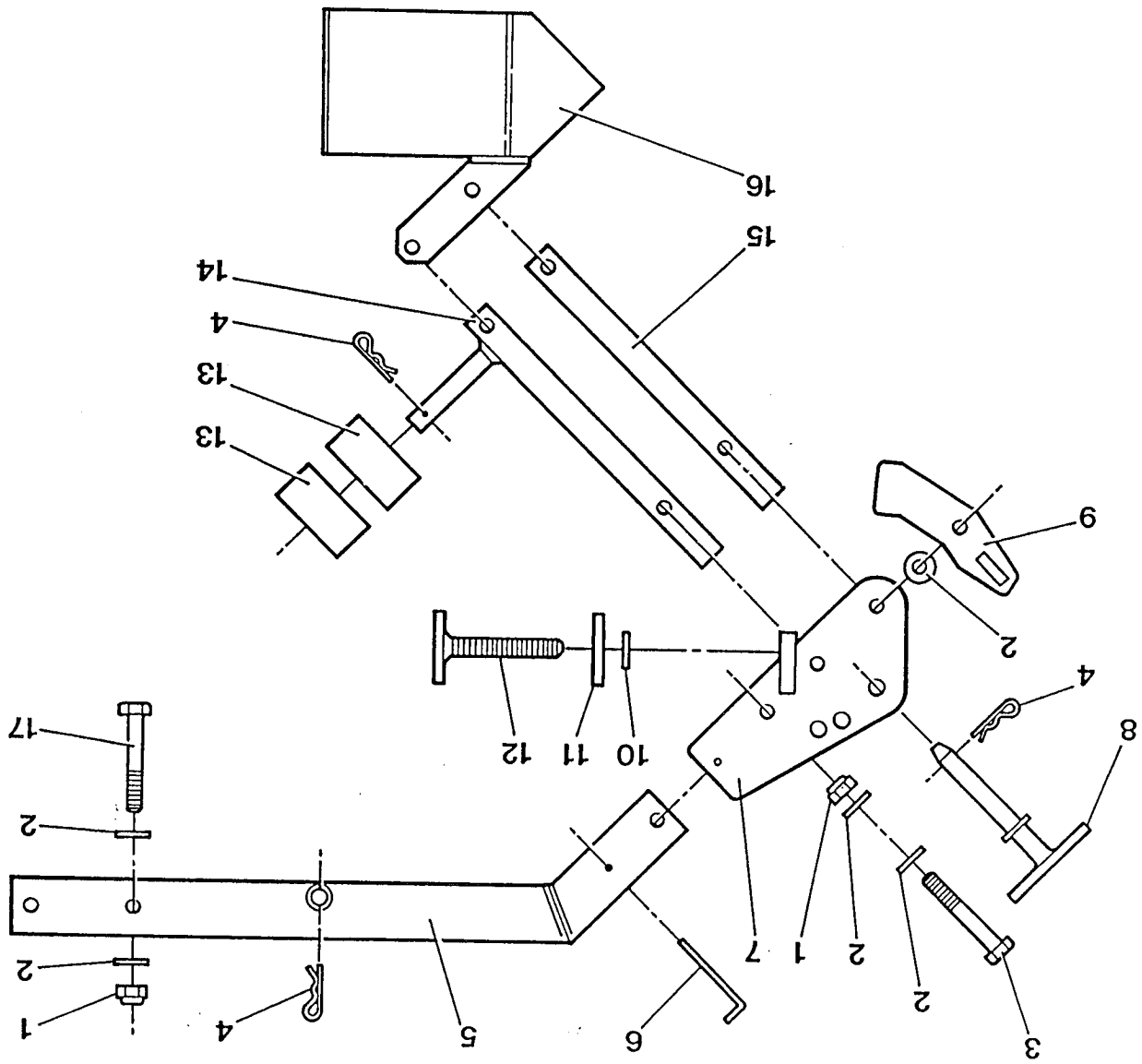
* L/H Extension is described when fitted to rear of chassis with 120 wide wheels (i.e with offset inwards).

KITS

8002669	Drag Coverer
8002720	Arm Coverer L/H - long - multi line
8002719	Arm Coverer R/H - short - multi line
8002756	Pair Staggered Arm Coverers - multi line
8002843	Arm Coverer Kit L/H - long - single line
8002844	Arm Coverer Kit R/H - short - single line
8002845	Pair Staggered Arm Coverers - single line
8002782	Chassis Arm Spring Kit
**7703094	Unit Clamp Screw Assy (55 Post)
**7702957	Unit Clamp Screw Assy (60 Post)

** 55mm Post used on Chassis with unequal length unit guide plates.

** 60mm Post used on Chassis with equal length unit guide plates.



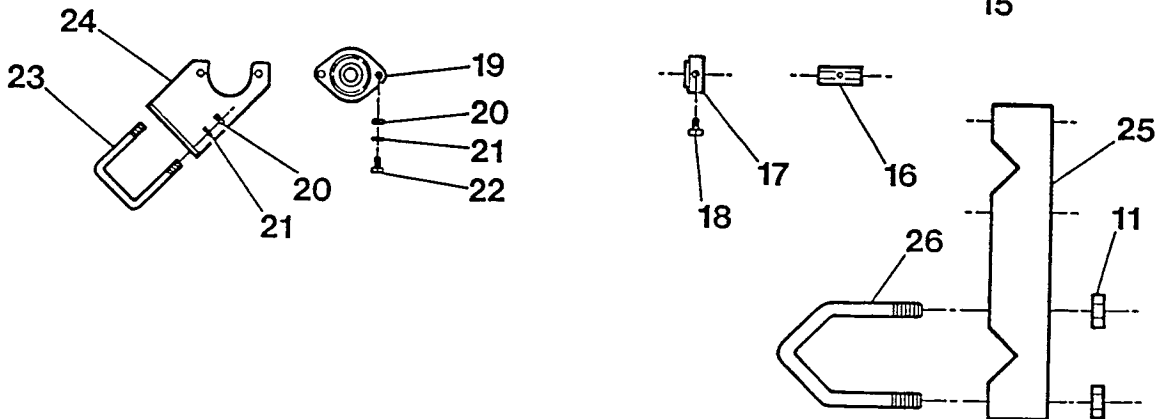
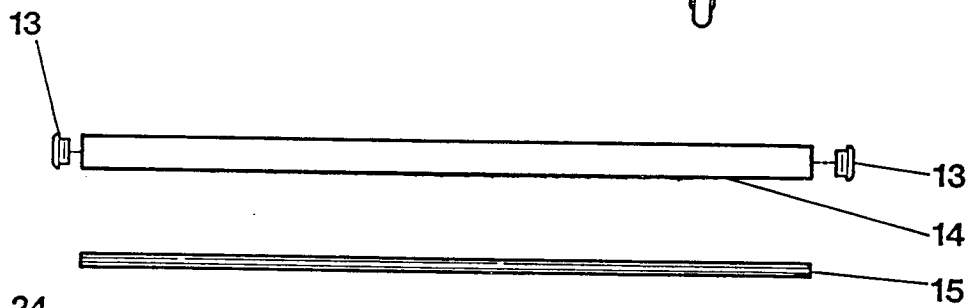
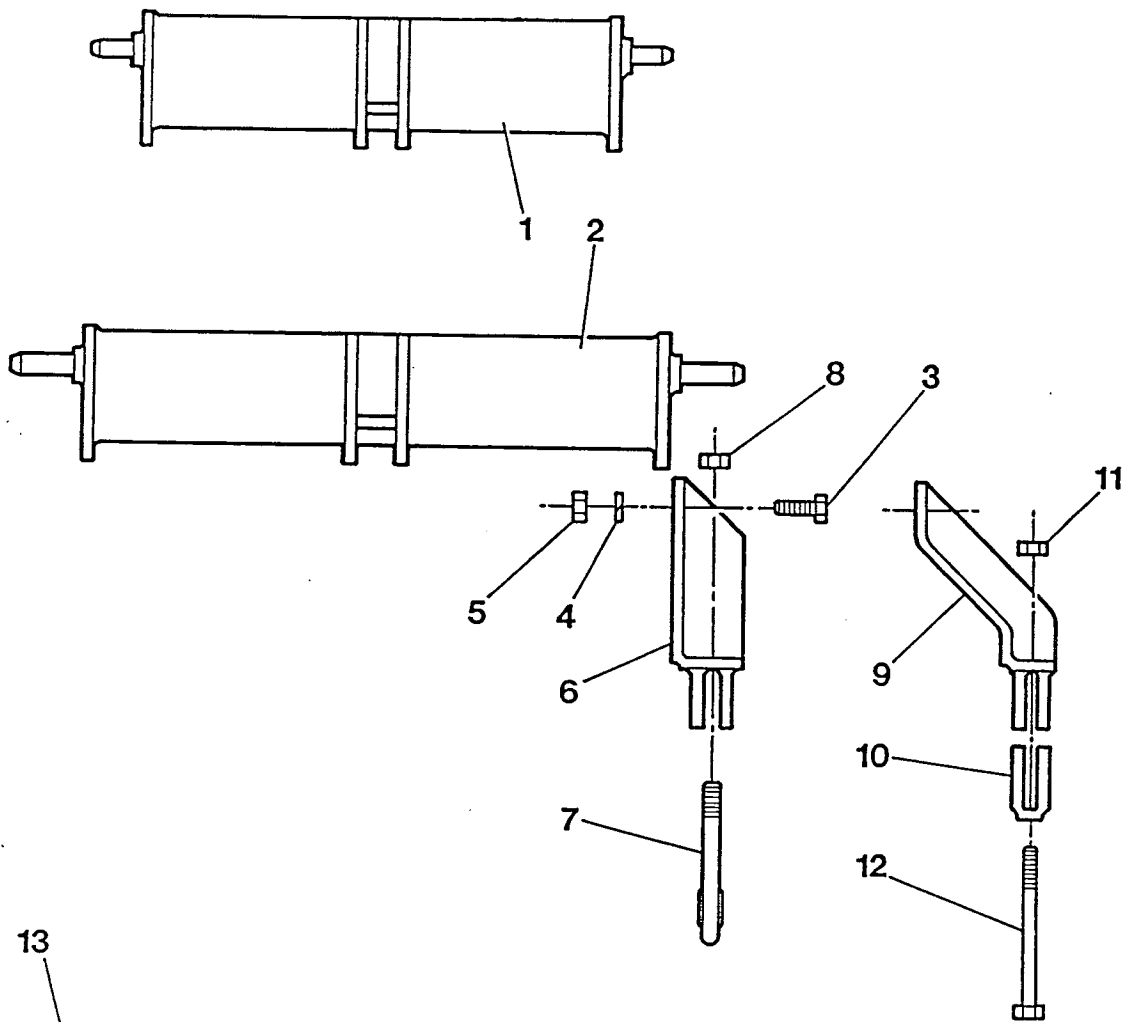
STANHAY 985

CLOD DEFLECTOR

Item No:	Part No:	Description:
1	2303109	M10 Nyloc Hexagon Nut - thin
2	2311112	M10 Flat Washer - thin
3	2306072	M10 x 70 Hexagon Head Bolt
4	2316033	R-clip
5	7403004	Deflector Stem
6	6902240	Shear Pin
7	7402479	Link Bracket
8	7402238	Support Pin
9	7403001	Adjuster Arm
10	2311091	M12 Flat Washer
11	6902654	Locking Plate
12	7403002	Adjuster Screw
13	3000445	Ballast Weight
14	7402856	Upper Link
15	6902212	Lower Link
16	7402480	Deflector Blade
17	2306074	M10 x 80 Hexagon Head Bolt

ASSEMBLY

7702913	Clod Deflector (items 1-16)
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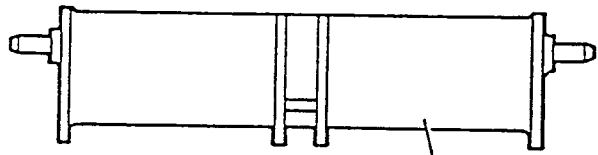
STANHAY 985

HEADSTOCK, TOOLBARS, SHAFTS, ETC.

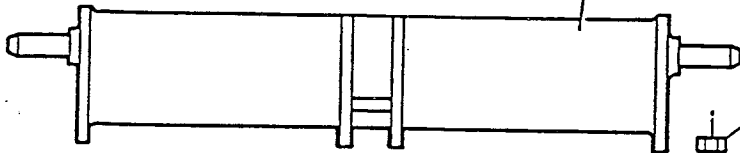
Item No:	Part No:	Description:	
1	7403040	Cat. 1 Headstock	
2	7403031	Cat. 2 Headstock	
3	2309108	M20 x 50 Hexagon Head Screw	
4	2311219	M20 Spring Washer	
5	2303011	M20 Hexagon Nut	
*6	7402025	Headstock Bracket (M16 U-bolt)	
	7403032	Headstock Bracket (M20 U-bolt)	
*7	8002127	7002005 U-bolt (M16) c/w item 8	
	8002134	7403029 U-bolt (M20) c/w item 8	
*8	2303010	M16 Hexagon Nut	
	2303011	M20 Hexagon Nut	
9	7402268	Headstock Bracket - cranked	
10	7402232	Headstock Bracket Cap	
11	2303010	M16 Hexagon Nut	
12	2306146	M16 x 200 Hexagon Head Bolt	
13	6402015	Plastic Plug	
**14	7701112	2.30M Toolbar	
	7701113	2.90M Toolbar	
	7702193	3.30M Toolbar	
	7701115	3.80M Toolbar	Single Box Type
	7701116	4.30M Toolbar	
	7702272	4.80M Toolbar	
	7701117	5.40M Toolbar	
	7403126	1.50M Toolbar	
	7402903	1.65M Toolbar	
	7403125	1.80M Toolbar	
	7402984	2.00M Toolbar	
	7403050	2.15M Toolbar	
	7402901	2.30M Toolbar	Double Box Type
	7403087	2.50M Toolbar	
	7402967	2.90M Toolbar	
	7402991	3.30M Toolbar	
	7402906	3.80M Toolbar	
	7402907	4.30M Toolbar	
**15	6902105	1.50M Shaft	
	6902175	1.65M Shaft	
	6902321	1.80M Shaft	
	6902469	2.00M Shaft	
	6902322	2.15M Shaft	
	7000067	2.30M Shaft	
	6902704	2.50M Shaft	
	7000068	2.90M Shaft	
	6902103	3.30M Shaft	
	7000070	3.80M Shaft	
	7000071	4.30M Shaft	

* Both types have been supplied. Please state type required.

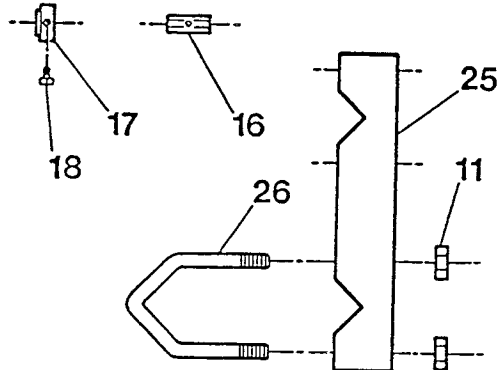
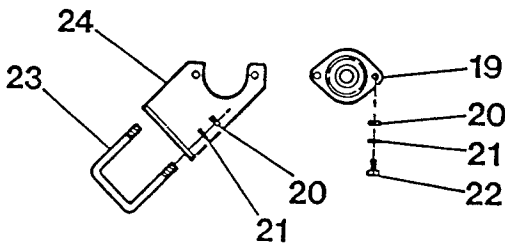
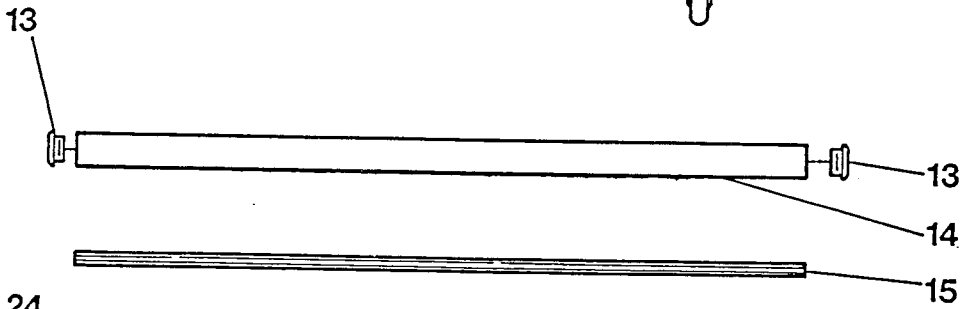
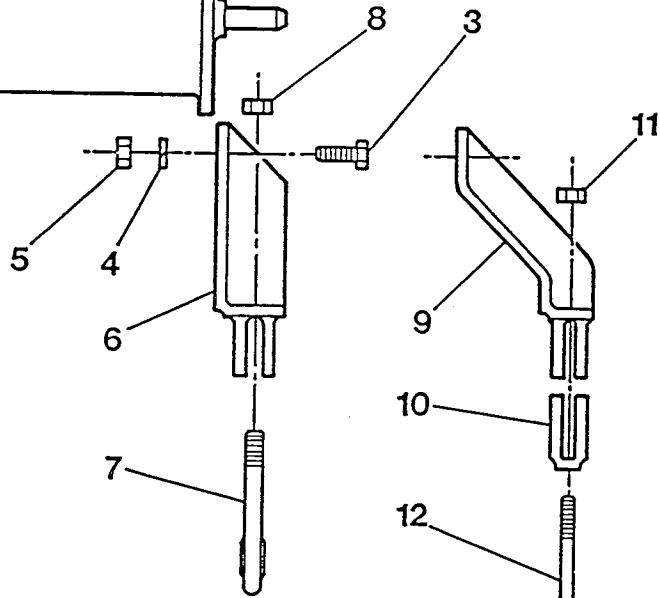
** Some special drill configurations may be fitted with different lengths. Please state length required.



1



2



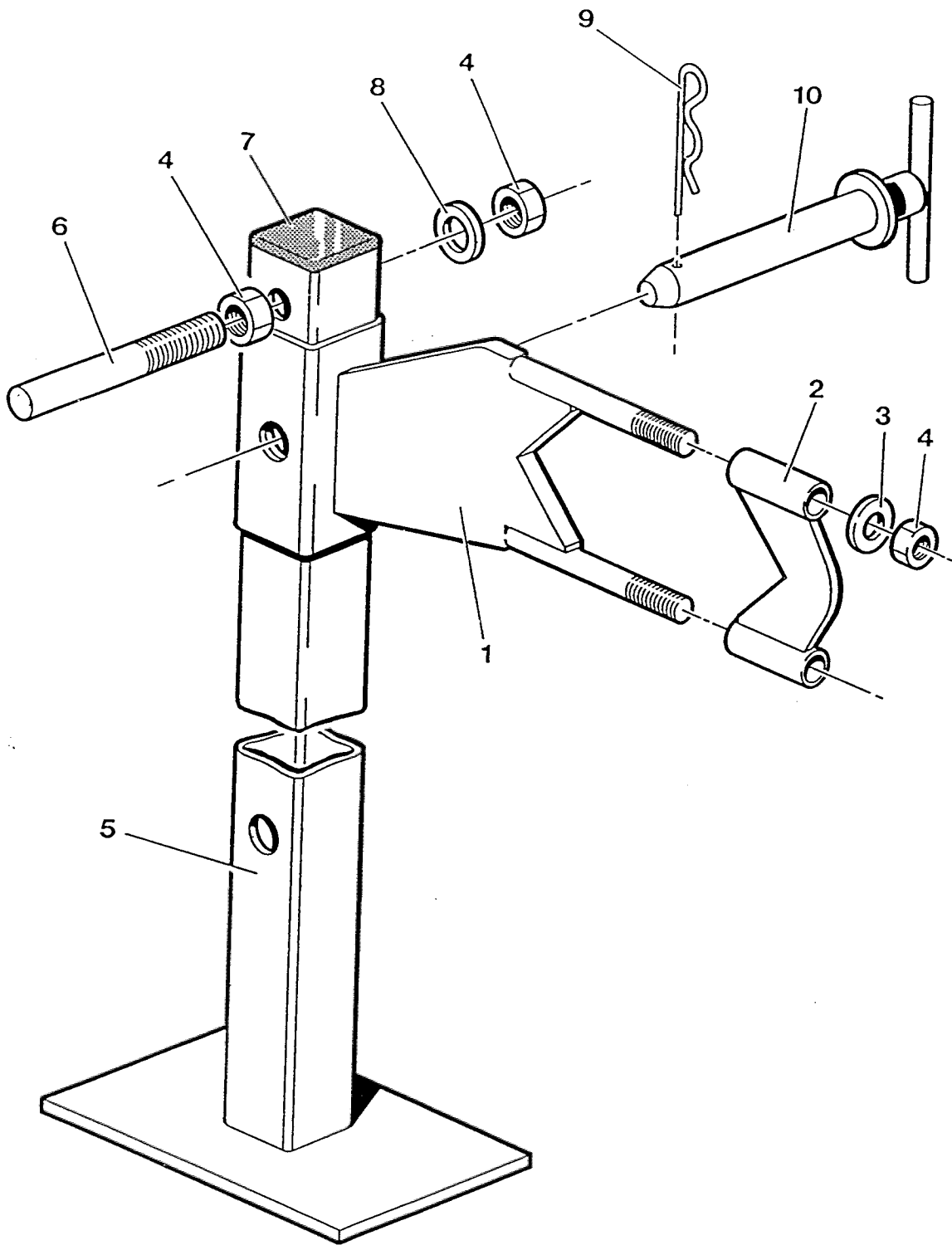
STANHAY 985

HEADSTOCK, TOOLBARS, SHAFTS ETC.

Item No:	Part No:	Description:
16	7700089	Muff Coupling (to join two shafts)
17	6902352	Locking Collar
18	2309061	M10 x 20 Hexagon Head Screw
19	8010027	1905025 Ball Bearing c/w items 20-22
20	2303007	M8 Hexagon Nut
21	2311215	M8 Spring Washer
22	2309048	M8 x 25 Hexagon Head Screw
23	8002126	7001098 U-bolt c/w items 20,21
24	7400070	Bearing Bracket
25	7403132	Joining Member (200 centres)
26	8002125	7001093 U-bolt c/w item 11

KITS

8002705	Cat.1 Headstock & Straight Bracket Kit (items 1, 3-8)
8002706	Cat.1 Headstock & Cranked Bracket Kit (items 1, 3-5, 9-12)
8002678	Cat.2 Headstock & Straight Bracket Kit (items 2-8)
8002679	Cat.2 Headstock & Cranked Bracket Kit (items 2-5, 9-12)
8002677	Straight Bracket Kit (items 3-8)
8002713	Cranked Bracket Kit (items 3-5, 9-12)
8002781	Joining Member (200 centres) (items 25,26)
7700996	Bearing Bracket (items 19-24)



STANHAY 985

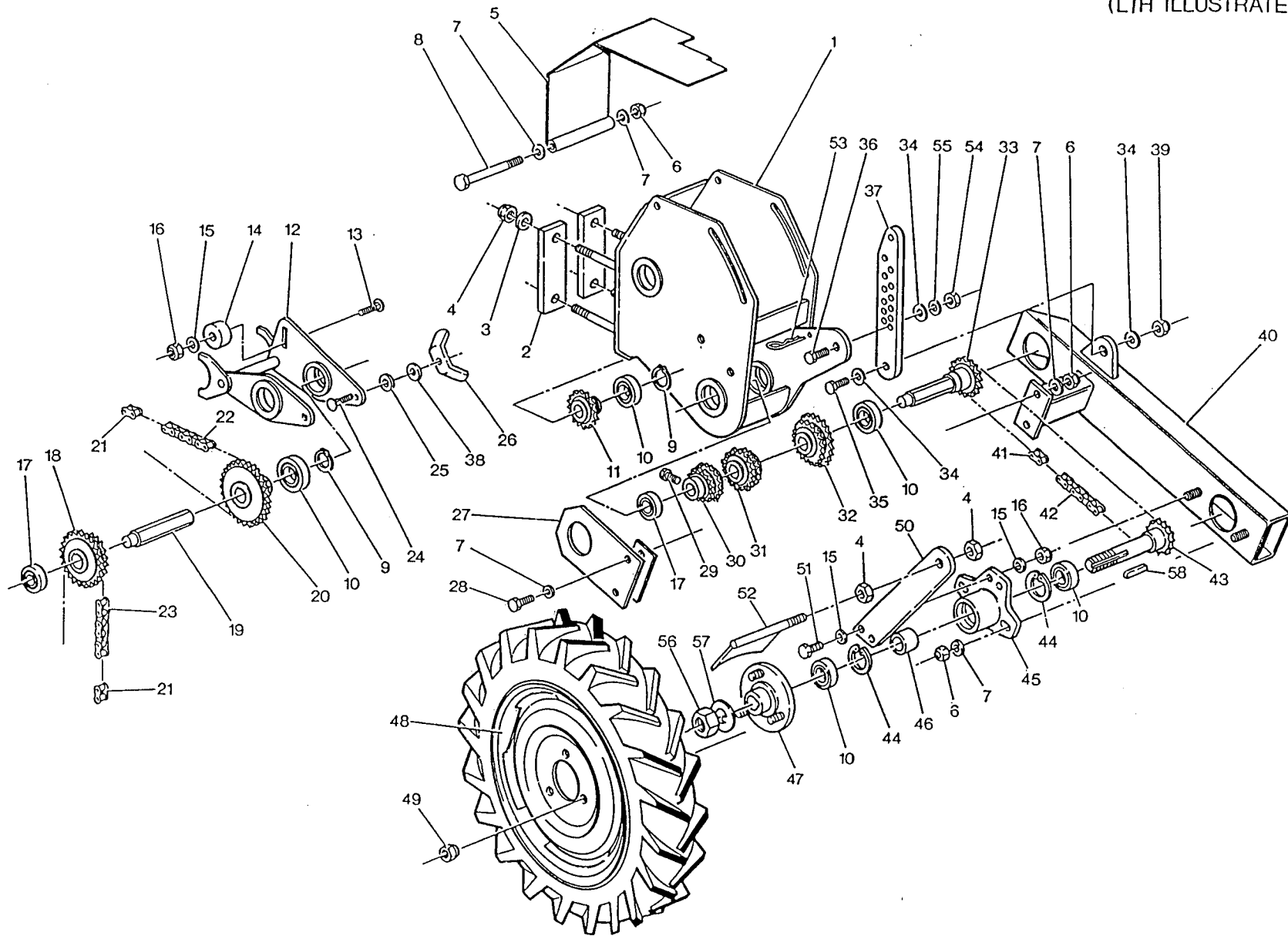
PARKING STAND

Item No:	Part No:	Description:
1	7402247	Parking Stand Bracket - Toolbar
2	7400709	Half Clamp
3	2311091	M12 Flat Washer
4	2303009	M12 Hexagon Nut
5	7402141	Parking Stand
6	6902100	Stand Handle
7	6402018	Plastic Plug
8	2311217	M12 Spring Washer
9	2316033	R-Clip
10	7402238	Support Pin

ASSEMBLY

7702095	Parking Stand - Toolbar (items 1-10)
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(L/H ILLUSTRATED)



4.0 -16 TYRES

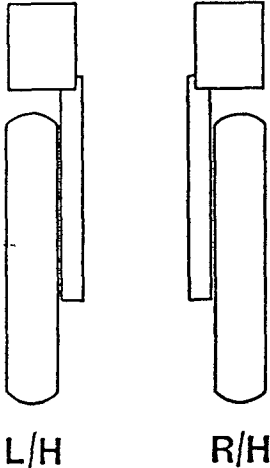
STANHAY 985

MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

SINGLE WHEEL TYPE

4.00-16 TYRE - ROUND WHEEL SPINDLE

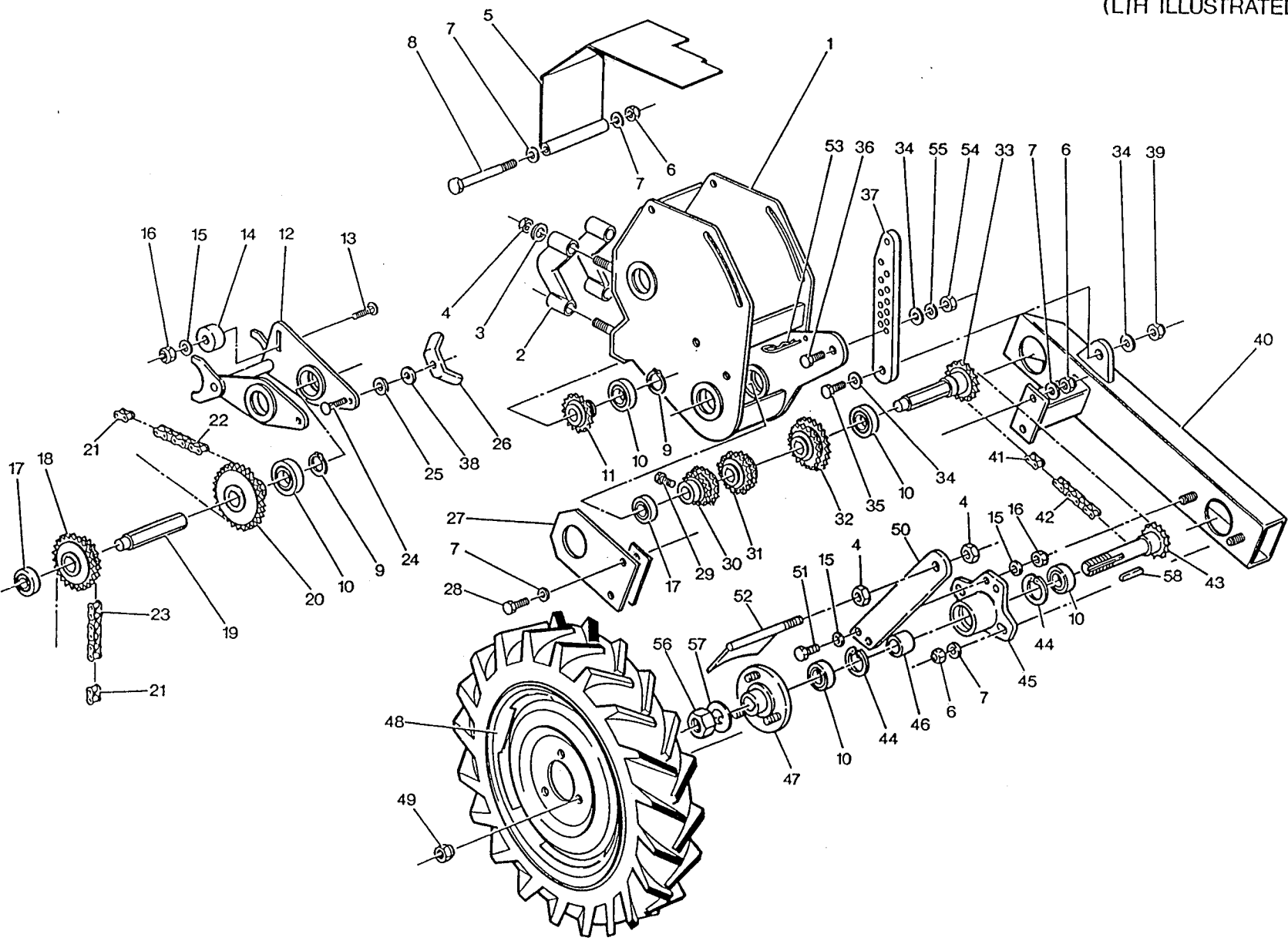
WHEEL TYPES



Note: L/H and R/H wheels may be fitted on either side of drill outfits.

Item No:	Part No:	Description:
1	7402719	Gearbox Body L/H
	7402720	Gearbox Body R/H
2	7402662	Clamp Half
3	2311092	M16 Flat Washer
4	2303010	M16 Hexagon Nut
5	7402445	Gearbox Lid L/H
	7402860	Gearbox Lid R/H
6	2303109	M10 Nyloc Hexagon Nut - thin
7	2311090	M10 Flat Washer
8	2306082	M10 x 160 Hexagon Head Bolt
9	2217009	Circlip
10	1901051	Ball Bearing
11	7402709	17T Driven Sprocket
	6902326	Shaft Support (non driving wheels only)
12	7402687	Adjuster Frame
13	2306466	M8 x 40 Coach Bolt
14	6902235	Output Drive Jockey
15	2311089	M8 Flat Washer
16	2303092	M8 Nyloc Hexagon Nut
17	1901049	Ball Bearing
18	7703060	17/24T Sliding Sprocket
19	6902234	Output Shaft
20	7402441	30T Output Sprocket
21	1807018	Connecting Link (for items 22 & 23)
22	1807038	Chain - 46 pitches
23	1807030	Chain - 53 pitches

(L/H ILLUSTRATED)



4.00-16 TYRES

STANHAY 985

MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

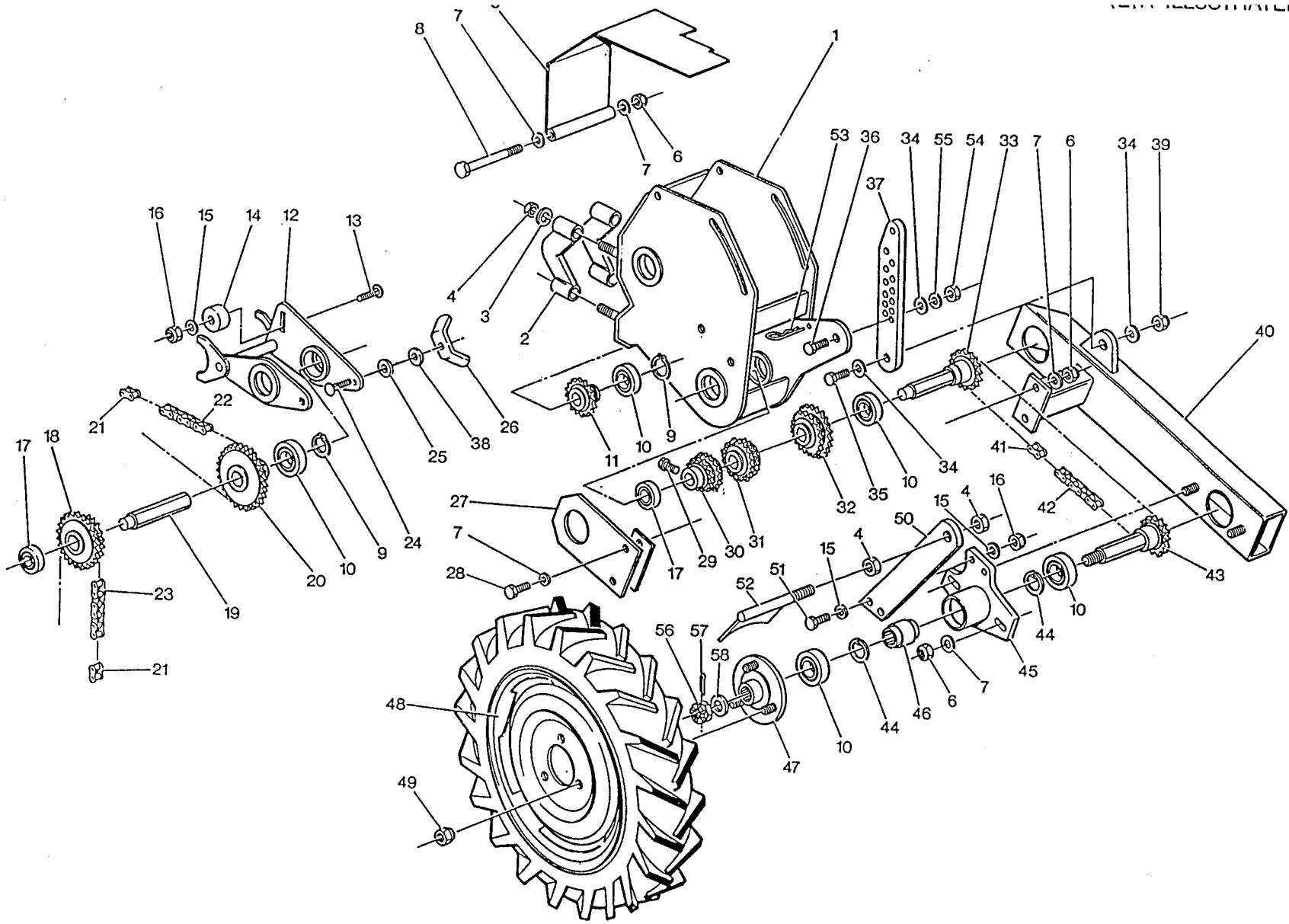
SINGLE WHEEL TYPE

4.00-16 TYRE - ROUND WHEEL SPINDLE

Item No:	Part No:	Description:
24	2306488	M10 x 30 Coach Bolt
25	6902236	Quadrant Washer
26	6902742	Adjuster Frame Nut
27	6902229	Arm Pivot Plate
	6902325	Plate Packing (for adjustment)
28	2309063	M10 x 30 Hexagon Head Screw
29	2309061	M10 x 20 Hexagon Head Screw
30	1707083	16/17T Sprocket
31	1707084	18/19T Sprocket
32	1707085	20/21T Sprocket
33	7402467	16T Input Shaft
34	2311091	M12 Flat Washer
35	2306097	M12 x 45 Hexagon Head Bolt
36	2306097	M12 x 45 Hexagon Head Bolt
37	6902230	Wheel Strut
38	2311370	M10 Flat Washer - Extra Large
39	2303094	M12 Nyloc Hexagon Nut
40	7402434	Wheel Arm
41	1808065	Connecting Link
42	1808066	Chain - 87 pitches
43	7403158	16T Wheel Spindle
44	2217208	Circlip
45	3000657	Landwheel Hub
46	6902673	Bearing Spacer - landwheel
47	7703048	Wheel Centre c/w studs
	5700339	Wheel Stud
48	5700336	Landwheel L/H (c/w tyre & tube)
	5700337	Landwheel R/H (c/w tyre & tube)
	5700333	Wheel
	5700334	Tyre
	5700335	Tube
49	5700340	Wheel Nut
50	6902239	Scraper Arm
51	2309049	M8 x 30 Hexagon Head Screw
52	7402446	Landwheel Scraper
53	2316033	R-clip
54	2303009	M12 Hexagon Nut
55	2311217	M12 Spring Washer
56	2303013	M30 Hexagon Nut
57	6902759	Tab Washer - Landwheel
58	6413059	Key - Wheel Centre

ASSEMBLIES

7703055	Single Landwheel L/H) Drill and
7703056	Single Landwheel R/H) Granyl Drive
7703049	Single Landwheel L/H)
7703050	Single Landwheel R/H) Granyl Drive



4.00-16 TYRES

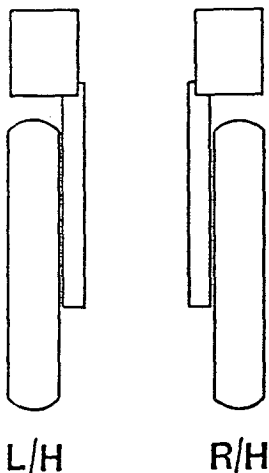
STANHAY 985

MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

SINGLE WHEEL TYPE

4.00-16 TYRE - HEXAGON WHEEL SPINDLE

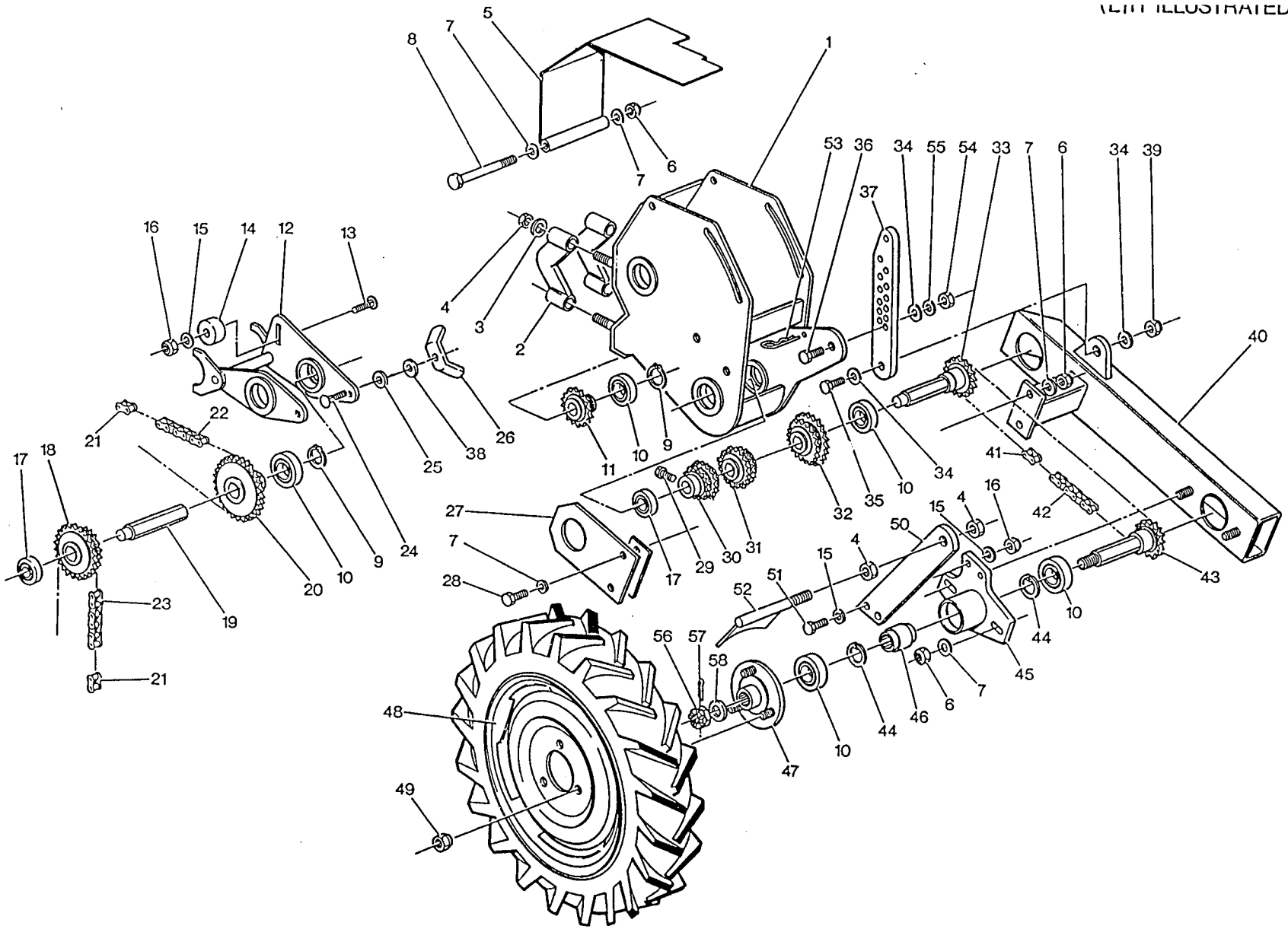
WHEEL TYPES



Note: L/H and R/H wheels may be fitted on either side of drill outfits.

Item No:	Part No:	Description:
1	7402719	Gearbox Body L/H
	7402720	Gearbox Body R/H
2	7402662	Clamp Half
3	2311092	M16 Flat Washer
4	2303010	M16 Hexagon Nut
5	7402445	Gearbox Lid L/H
	7402860	Gearbox Lid R/H
6	2303109	M10 Nyloc Hexagon Nut - thin
7	2311090	M10 Flat Washer
8	2306082	M10 x 160 Hexagon Head Bolt
9	2217009	Circlip
10	1901051	Ball Bearing
11	7402709	17T Driven Sprocket
	6902326	Shaft Support (non driving wheels only)
12	7402687	Adjuster Frame
13	2306466	M8 x 40 Coach Bolt
14	6902235	Output Drive Jockey
15	2311089	M8 Flat Washer
16	2303092	M8 Nyloc Hexagon Nut
17	1901049	Ball Bearing
18	1707086	17/24T Sliding Sprocket
19	6902234	Output Shaft
20	7402441	30T Output Sprocket
21	1807018	Connecting Link (for items 22 & 23)
22	1807038	Chain - 46 pitches
23	1807030	Chain - 53 pitches

(LIFT ILLUSTRATED)



4.00-16 TYRES

STANHAY 985

MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

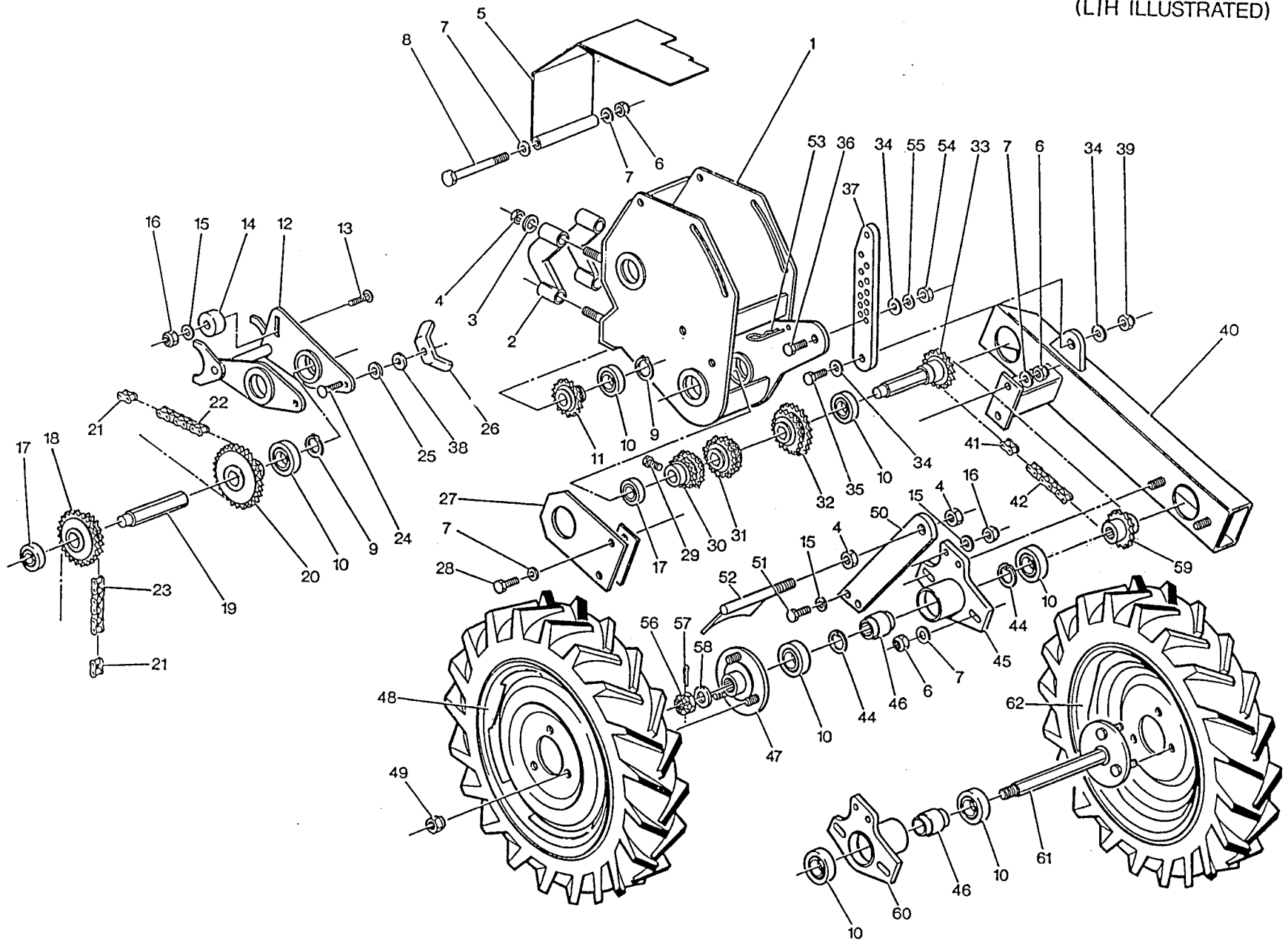
SINGLE WHEEL TYPE

4.00-16 TYRE - HEXAGON WHEEL SPINDLE

Item No:	Part No:	Description:
24	2306488	M10 x 30 Coach Bolt
25	6902236	Quadrant Washer
26	6902742	Adjuster Frame Nut
27	6902229	Arm Pivot Plate
	6902325	Plate Packing (for adjustment)
28	2309063	M10 x 30 Hexagon Head Screw
29	2309061	M10 x 20 Hexagon Head Screw
30	1707083	16/17T Sprocket
31	1707084	18/19T Sprocket
32	1707085	20/21T Sprocket
33	7402467	16T Input Shaft
34	2311091	M12 Flat Washer
35	2306097	M12 x 45 Hexagon Head Bolt
36	2306097	M12 x 45 Hexagon Head Bolt
37	6902230	Wheel Strut
38	2311370	M10 Flat Washer - Extra Large
39	2303094	M12 Nyloc Hexagon Nut
40	7402434	Wheel Arm
41	1808065	Connecting Link
42	1808066	Chain - 87 pitches
*43	7402493	16T Wheel Spindle
44	2217208	Circlip
45	3000657	Landwheel Hub
46	6902272	Bearing Spacer - landwheel
*47	7702682	Wheel Centre c/w studs
	5700339	Wheel Stud
48	5700336	Landwheel L/H (c/w tyre & tube)
	5700337	Landwheel R/H (c/w tyre & tube)
	5700333	Wheel
	5700334	Tyre
	5700335	Tube
49	5700340	Wheel Nut
50	6902239	Scraper Arm
51	2309049	M8 x 30 Hexagon Head Screw
52	7402446	Landwheel Scraper
53	2316033	R-clip
54	2303009	M12 Hexagon Nut
55	2311217	M12 Spring Washer
56	2303078	M20 Hexagon Slotted Nut
57	2215587	4 x 40 Split Pin
58	2311093	M20 Flat Washer

* These items are no longer available. Please order Kit 8002804.
This converts wheel hub to later round spindle type. See page 37.

(L/H ILLUSTRATED)



4.00-16 TYRES

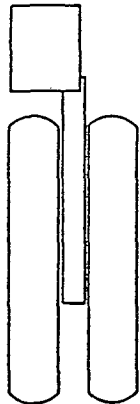
STANHAY 985

MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

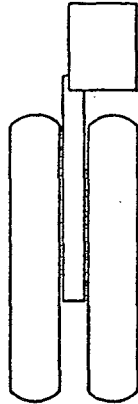
DUAL WHEEL TYPE

4.00-16 TYRE

WHEEL TYPES



L/H Dual

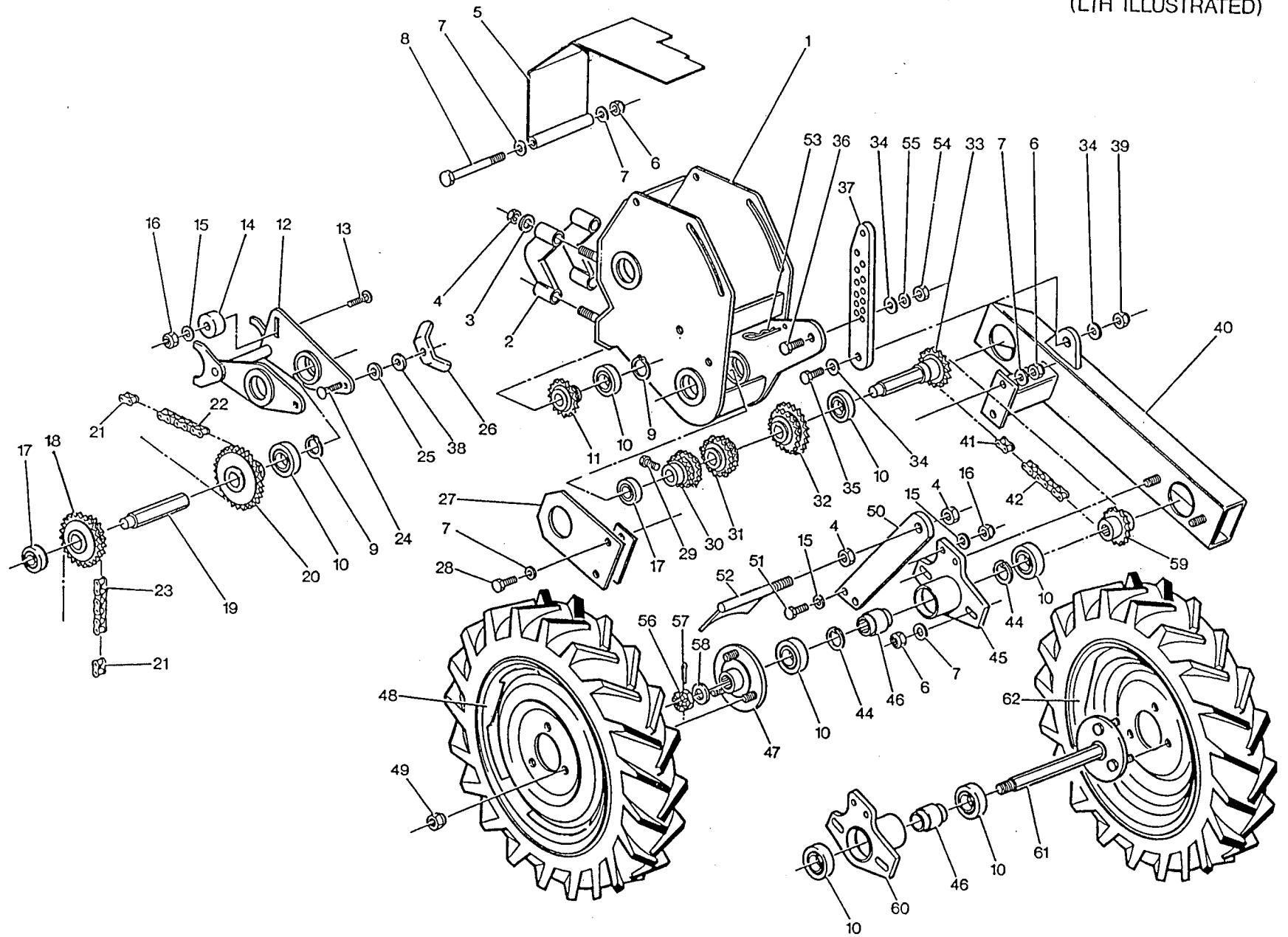


R/H Dual

Note: L/H and R/H wheels may be fitted on either side of drill outfits.

Item No:	Part No:	Description:
1	7402719	Gearbox Body L/H
	7402720	Gearbox Body R/H
2	7402662	Clamp Half
3	2311092	M16 Flat Washer
4	2303010	M16 Hexagon Nut
5	7402445	Gearbox Lid L/H
	7402860	Gearbox Lid R/H
6	2303109	M10 Nyloc Hexagon Nut - thin
7	2311090	M10 Flat Washer
8	2306082	M10 x 160 Hexagon Head Bolt
9	2217009	Circlip
10	1901051	Ball Bearing
11	7402709	17T Driven Sprocket
	6902326	Shaft Support (non driving wheels only)
12	7402687	Adjuster Frame
13	2306466	M8 x 40 Coach Bolt
14	6902235	Output Drive Jockey
15	2311089	M8 Flat Washer
16	2303092	M8 Nyloc Hexagon Nut
17	1901049	Ball Bearing
18	7703060	17/24T Sliding Sprocket
19	6902234	Output Shaft
20	7402441	30T Output Sprocket
21	1807018	Connecting Link (for items 22 & 23)
22	1807038	Chain - 46 pitches
23	1807030	Chain - 53 pitches

(L/H ILLUSTRATED)



4.00-16 TYRES

STANHAY 985

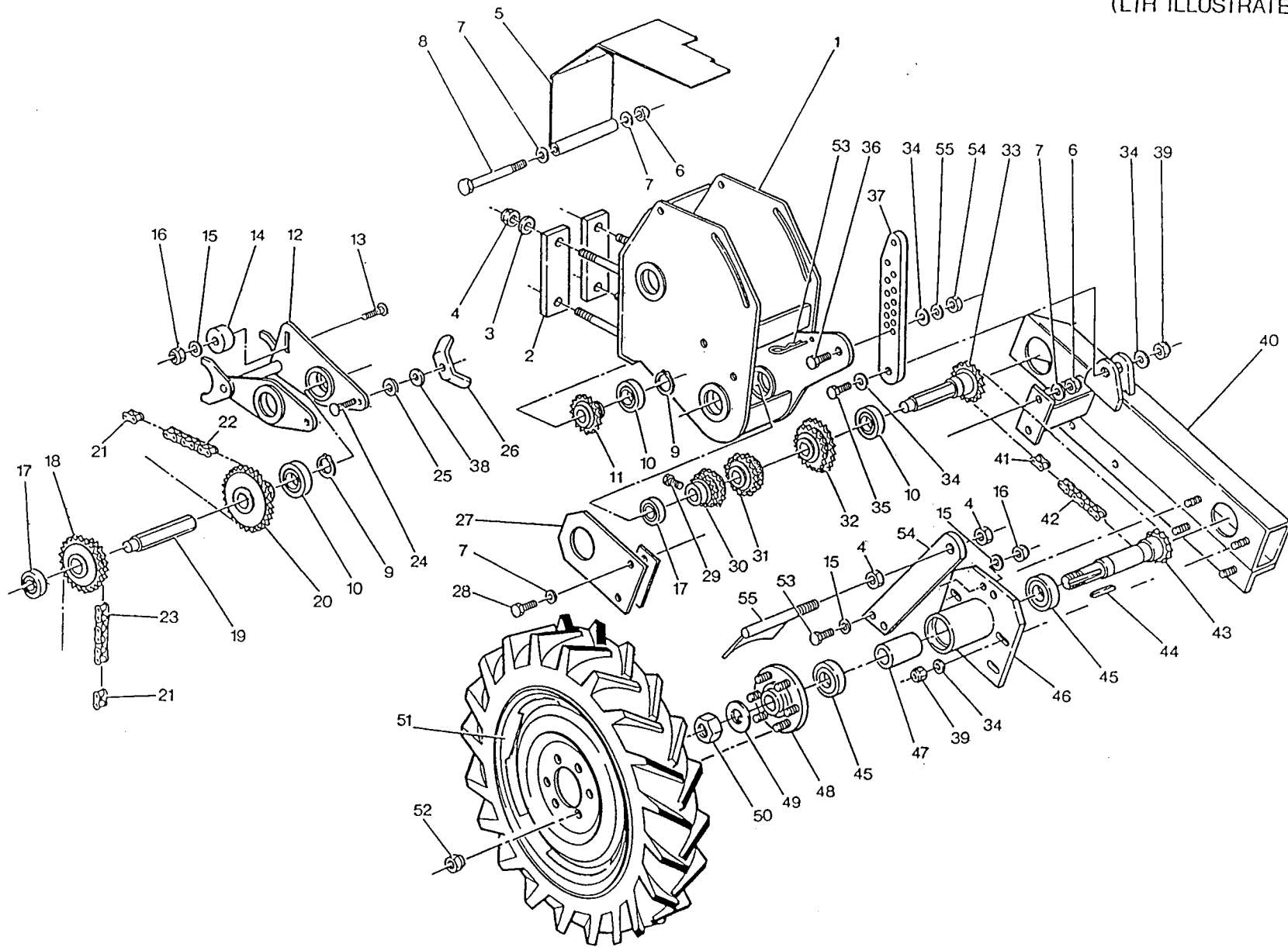
MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

DUAL WHEEL TYPE

4.00-16 TYRE

Item No:	Part No:	Description:
24	2306488	M10 x 30 Coach Bolt
25	6902236	Quadrant Washer
26	6902742	Adjuster Frame Nut
27	6902229	Arm Pivot Plate
	6902325	Plate Packing (for adjustment)
28	2309063	M10 x 30 Hexagon Head Screw
29	2309061	M10 x 20 Hexagon Head Screw
30	1707083	16/17T Sprocket
31	1707084	18/19T Sprocket
32	1707085	20/21T Sprocket
33	7402467	16T Input Shaft
34	2311091	M12 Flat Washer
35	2306097	M12 x 45 Hexagon Head Bolt
36	2306097	M12 x 45 Hexagon Head Bolt
37	6902230	Wheel Strut
38	2311370	M10 Flat Washer - Extra Large
39	2303094	M12 Nyloc Hexagon Nut
40	7402497	Wheel Arm
41	1808065	Connecting Link
42	1808066	Chain - 87 pitches
44	2217208	Circlip
45	3000657	Landwheel Hub
46	6902272	Bearing Spacer - landwheel
47	7702682	Wheel Centre c/w studs
	5700339	Wheel Stud
48	5700336	Landwheel L/H (c/w tyre & tube)
	5700333	Wheel
	5700334	Tyre
	5700335	Tube
49	5700340	Wheel Nut
50	7402622	Scraper Arm/Stone Ejector
51	2309049	M8 x 30 Hexagon Head Screw
52	7402562	Landwheel Scraper L/H
	7402563	Landwheel Scraper R/H
53	2316033	R-clip
54	2303009	M12 Hexagon Nut
55	2311217	M12 Spring Washer
56	2303078	M20 Hexagon Slotted Nut
57	2215587	4 x 40 Split Pin
58	2311093	M20 Flat Washer
59	7402495	16T Wheel Sprocket
60	3000657	Landwheel Hub
61	7702683	Wheel Spindle c/w studs
62	5700337	Landwheel R/H (c/w tyre & tube)

(LIH ILLUSTRATED)



6.00-16 TYRES

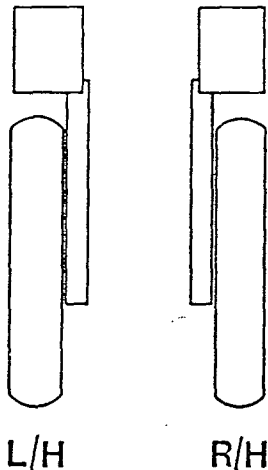
STANHAY 985

MASTER LANDWHEEL/GEARBOX 60 x 60 TOOLBAR

SINGLE WHEEL TYPE

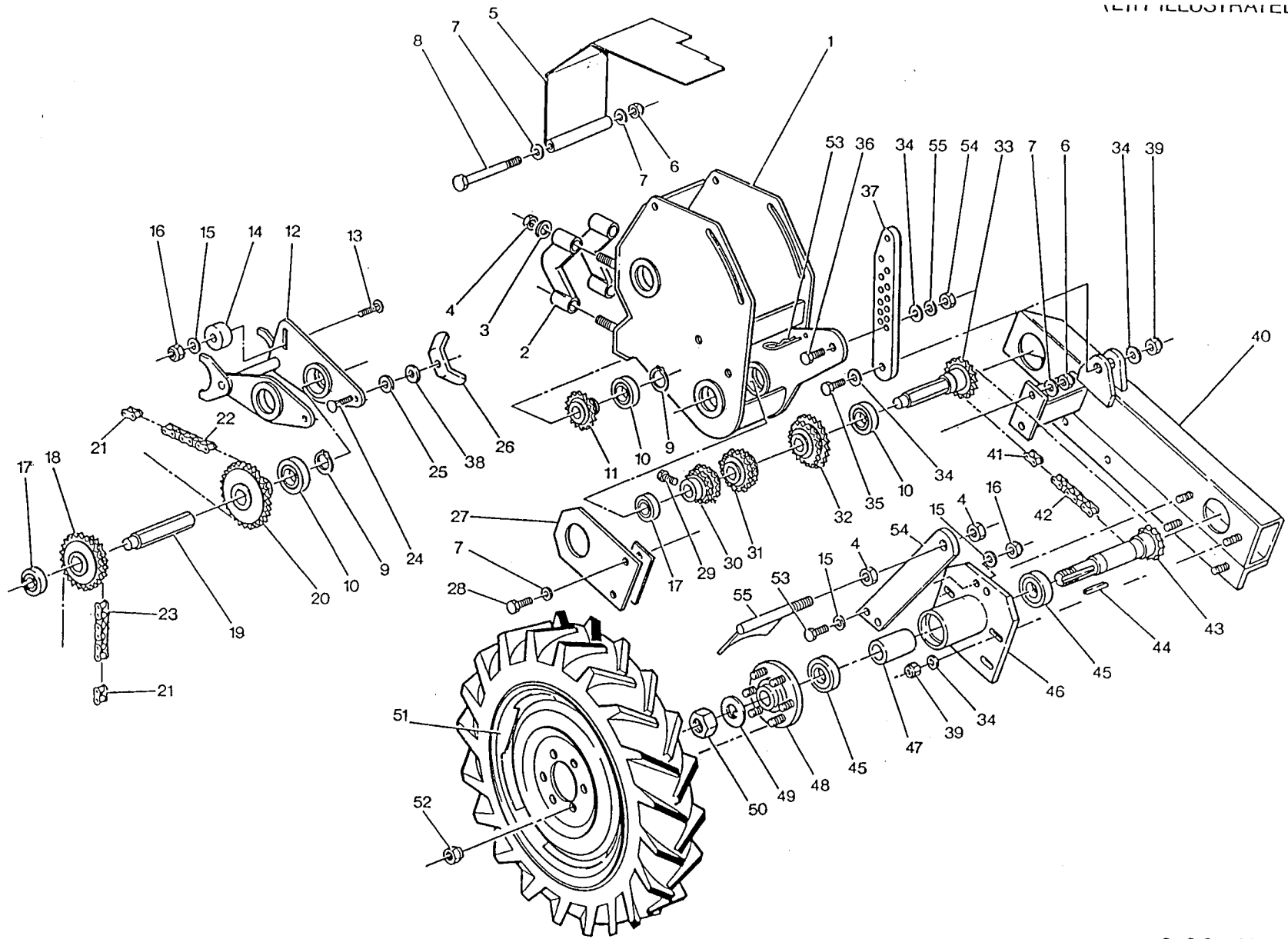
6.00-16 TYRE

WHEEL TYPES



Note: L/H and R/H wheels may be fitted on either side of drill outfits.

Item No:	Part No:	Description:
1	7402719	Gearbox Body L/H
	7402720	Gearbox Body R/H
2	7402662	Clamp Half
3	2311092	M16 Flat Washer
4	2303010	M16 Hexagon Nut
5	7402445	Gearbox Lid L/H
	7402860	Gearbox Lid R/H
6	2303109	M10 Nyloc Hexagon Nut - thin
7	2311090	M10 Flat Washer
8	2306082	M10 x 160 Hexagon Head Bolt
9	2217009	Circlip
10	1901051	Ball Bearing
11	7402709	17T Driven Sprocket
	6902326	Shaft Support (non driving wheels only)
12	7402687	Adjuster Frame
13	2306466	M8 x 40 Coach Bolt
14	6902235	Output Drive Jockey
15	2311089	M8 Flat Washer
16	2303092	M8 Nyloc Hexagon Nut
17	1901049	Ball Bearing
18	7703060	17/24T Sliding Sprocket
	1707090	13/30T Sliding Sprocket
	1707057	11T Sliding Sprocket
19	6902234	Output Shaft
20	7402441	30T Output Sprocket
21	1807018	Connecting Link (for items 22 & 23)
22	1807038	Chain - 46 pitches
23	1807030	Chain - 53 pitches



6.00-16 TYRES

STANHAY 985

MASTER LANDWHEEL/GEARBOX - 60 x 60 TOOLBAR

SINGLE WHEEL TYPE

6.00-16 TYRE

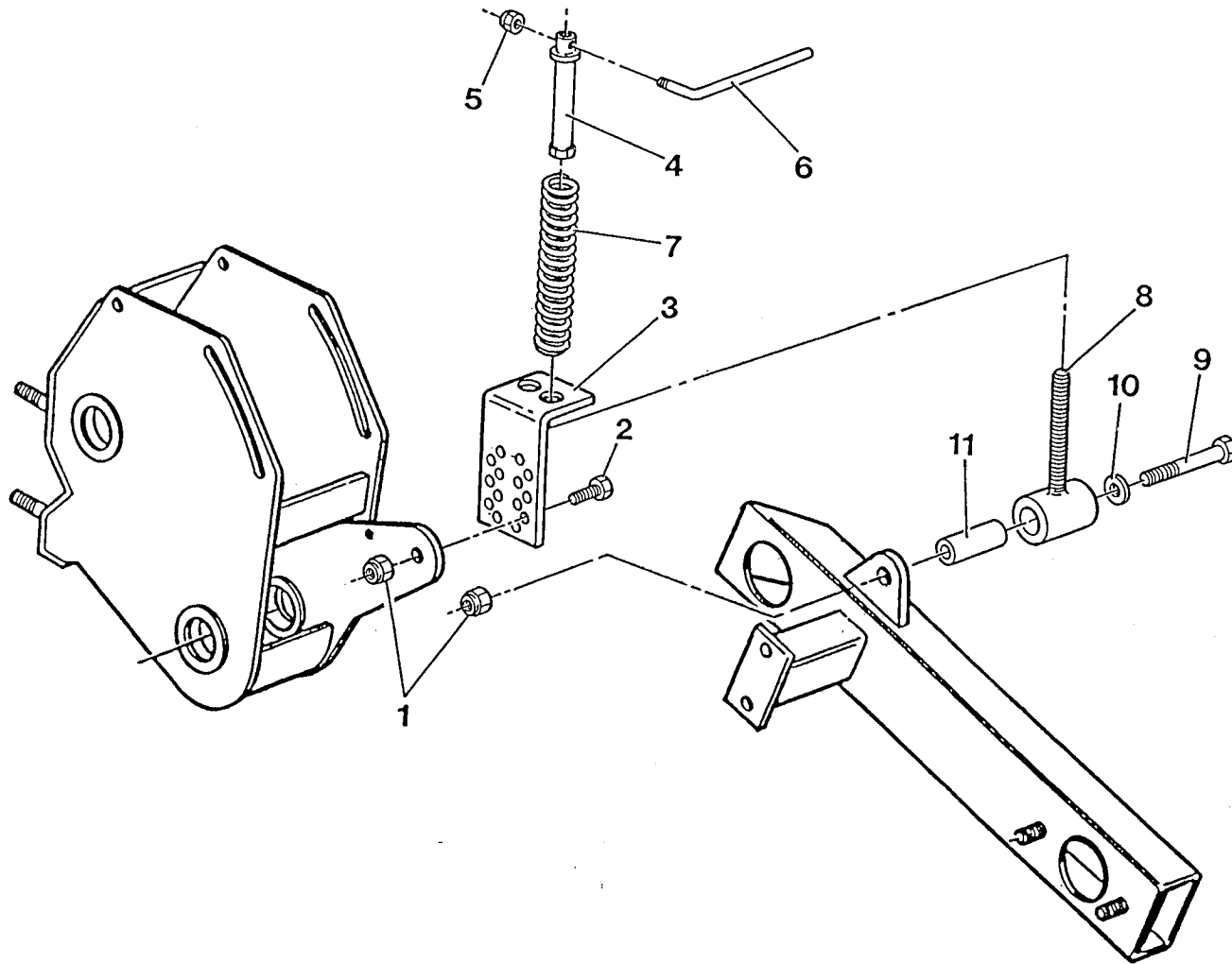
Item No:	Part No:	Description:
24	2306488	M10 x 30 Coach Bolt
25	6902236	Quadrant Washer
26	6902742	Adjuster Frame Nut
27	6902229	Arm Pivot Plate
	6902325	Plate Packing (for adjustment)
28	2309063	M10 x 30 Hexagon Head Screw
29	2309061	M10 x 20 Hexagon Head Screw
30	1707083	16/17T Sprocket
31	1707084	18/19T Sprocket
32	1707085	20/21T Sprocket
33	7403044	14T Input Shaft
34	2311091	M12 Flat Washer
35	2306097	M12 x 45 Hexagon Head Bolt
36	2306097	M12 x 45 Hexagon Head Bolt
37	6902230	Wheel Strut
38	2311370	M10 Flat Washer - Extra Large
39	2303094	M12 Nyloc Hexagon Nut
40	7403042	Wheel Arm L/H
	7403043	Wheel Arm R/H
41	1808065	Connecting Link
42	1808071	Chain - 95 pitches
*43	7403217	16T Wheel Spindle
44	6413059	Key - Wheel Centre
45	1901053	Ball Bearing
46	7403154	Wheel Hub
47	6902758	Bearing Spacer - LWHD
*48	7703133	Wheel Centre c/w Studs
	5700371	Wheel Stud
49	6902759	Tab Washer - Landwheel
50	2303013	M30 Hexagon Nut
51	5700377	Wheel L/H (c/w tyre & tube)
	5700378	Wheel R/H (c/w tyre & tube)
*	5700379	Wheel - 6 Stud
	5700356	Tyre (6.00-16)
	5700357	Tube
52	5700372	Wheel Nut
53	2309049	M8 x 30 Hexagon Head Screw
54	6902674	Scraper Arm
55	7403046	Landwheel Scraper

ASSEMBLIES

7702934	Single Landwheel L/H) Drill and
7702935	Single Landwheel R/H) Granyl Drive
7702928	Single Landwheel L/H)
7702929	Single Landwheel R/H) Granyl Drive

Note: 4 Stud Landwheel no longer available. If parts marked * are required, it is necessary to convert to 6 Stud Landwheel.

(L/H ILLUSTRATED)



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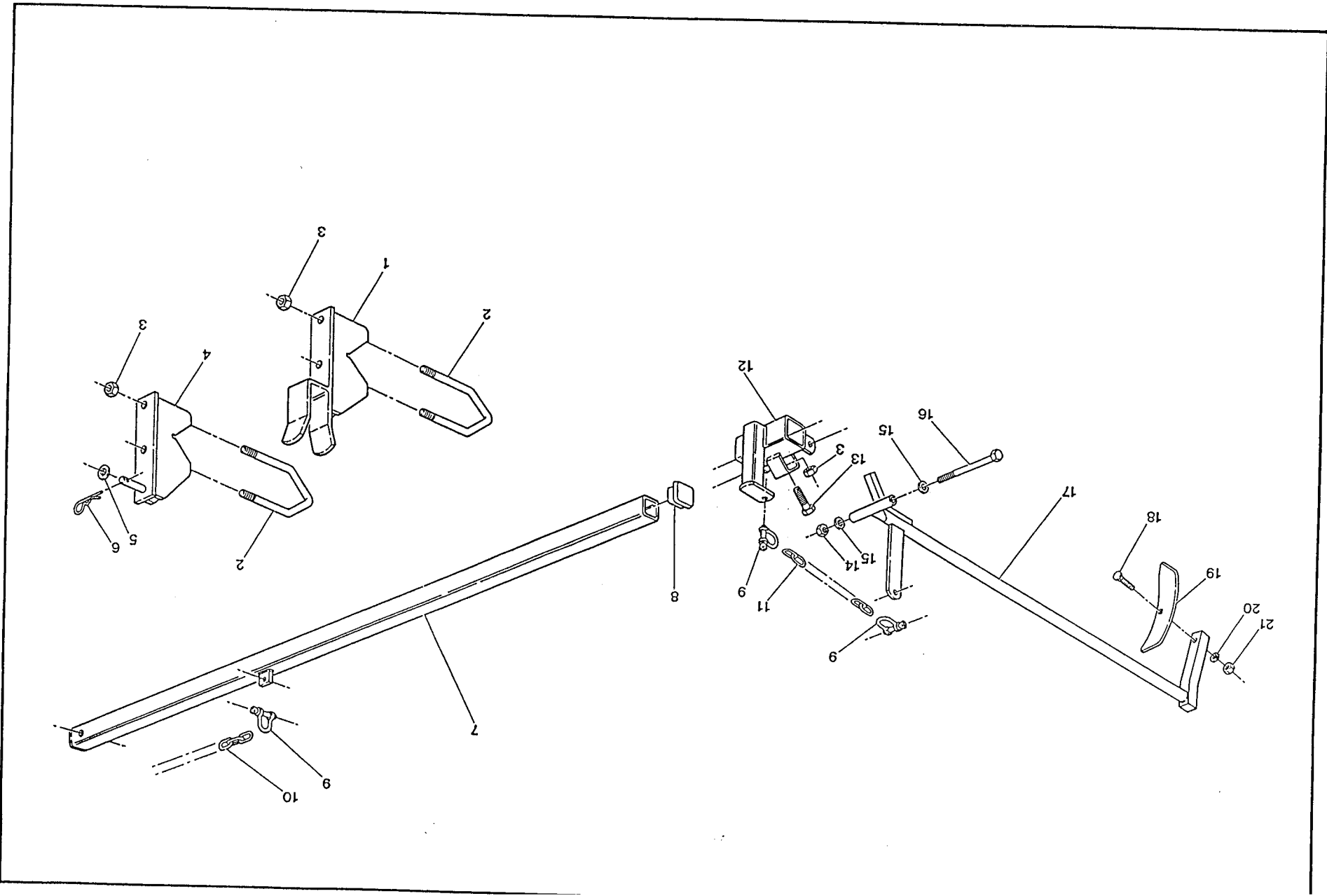
MASTER LANDWHEEL/GEARBOX

SPRING LOADING CONVERSION

Item No:	Part No:	Description:
1	2303094	M12 Nyloc Hexagon Nut
2	2306097	M12 x 45 Hexagon Head Bolt
3	6902689	Spring Loading Arm
4	7402838	Spring Locator
5	2303044	M10 Hexagon Locknut
6	6902536	Spring Tensioner Handle
7	2701056	Compression Spring
8	7402837	Pivot Arm/Spring Adjuster
9	2306105	M12 x 90 Hexagon Head Bolt
10	2311091	M12 Flat Washer
11	6902537	Pivot Bush

KIT

8002538 MLD Spring Loading Kit
(Note: Will fit L/H and R/H Master Landwheels)



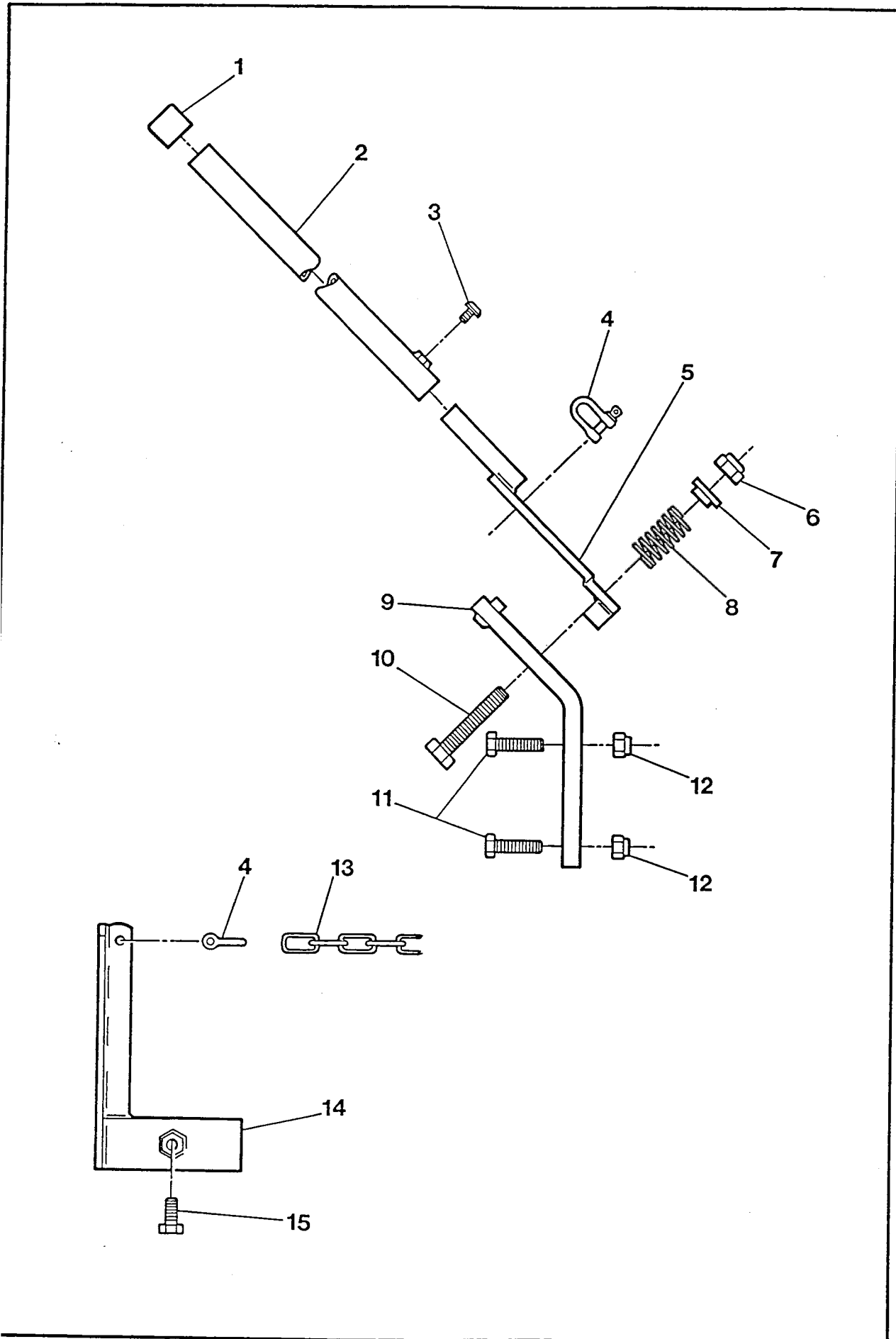
STANHAY 985

MANUAL MARKERS

Item No:	Part No:	Description:
1	7402293	Marker Beam Guide
2	8002127	7002005 U-Bolt c/w item 3
3	2303010	M16 Hexagon Nut
4	7402292	Marker Beam Hinge
5	2311092	M16 Flat Washer
6	2316033	R-clip
7	7400825	1.37M Marker Beam
8	6402018	Plastic Plug
9	6408002	1/4 D-shackle
10	6900985	Connecting Chain
11	6902599	Marker Arm Chain - 8 links
12	7402521	Marker Arm Bracket
13	2306128	M16 x 50 Hexagon Head Bolt
14	2303094	M12 Nyloc Hexagon Nut
15	2311091	M12 Flat Washer
16	2306109	M12 x 130 Hexagon Head Bolt
17	7402522	Marker Arm
18	2306489	M10 x 40 Coach Bolt
19	6000002	Tine
20	2311216	M10 Spring Washer
21	2303008	M10 Hexagon Nut

KITS

7702230	Marker Beam Guide (items 1,2)
7702229	Marker Beam Hinge (items 2,4,5,6)
7702834	Marker Arm & Bracket (items 3,9, 11-21)
8002112	Pair of 1.37M Manual Markers



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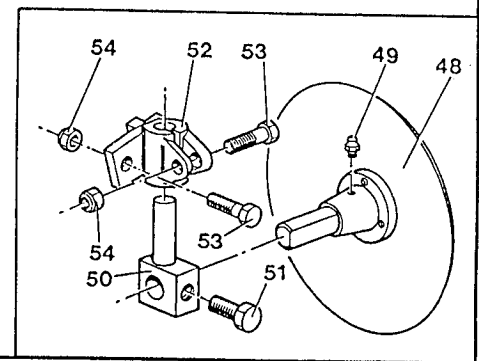
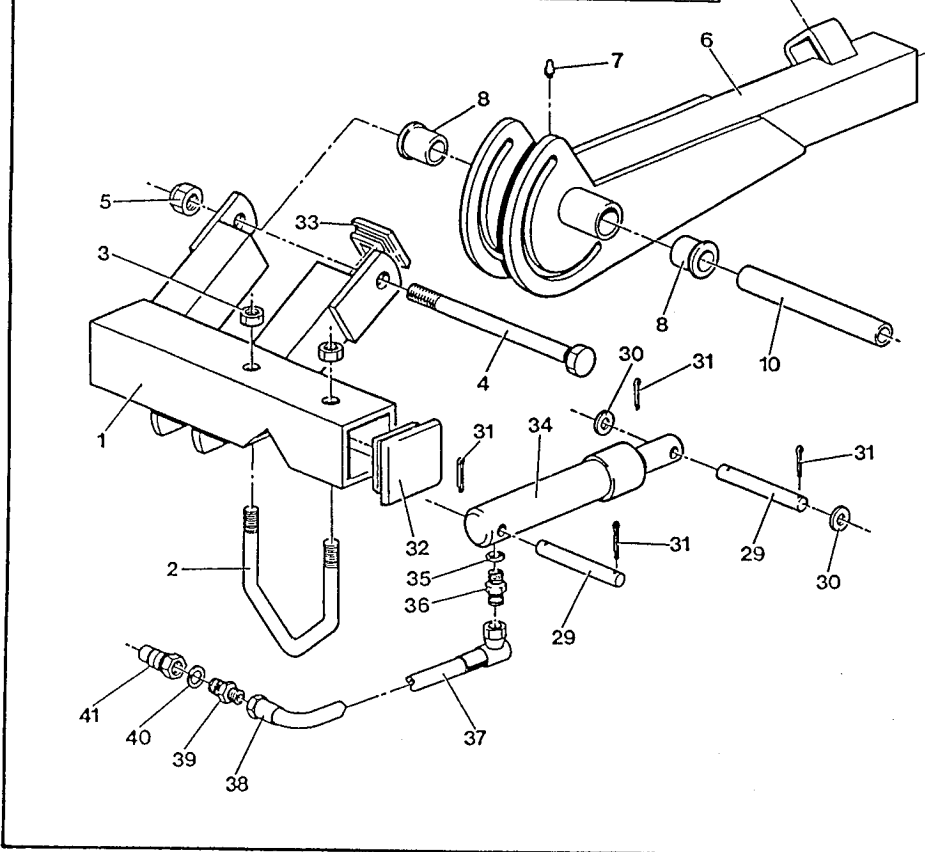
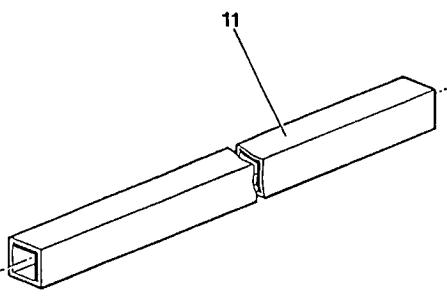
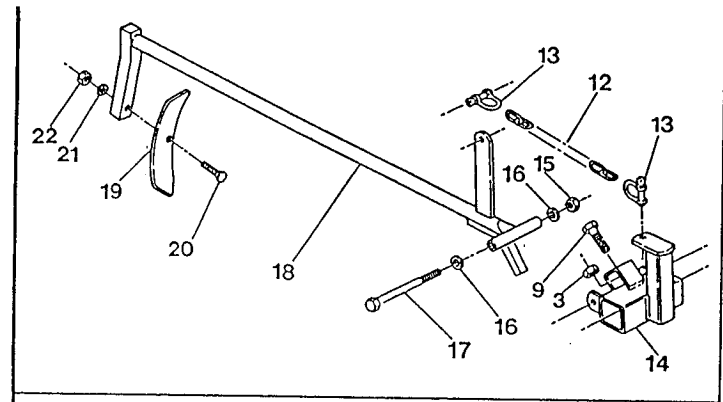
MANUAL MARKER

CHANGE-OVER KIT

Item No:	Part No:	Description
1	6403011	Plastic Ferrule
2	7403034	Marker Lever
3	2377079	M8 x 12 Socket Button Head Screw
4	6408002	1/4 D-shackle
5	7403034	Marker Handle
6	2303095	M16 Nyloc Hexagon Nut
7	2810209	Spring Cap
8	2701050	Compression Spring
9	7403033	Marker Handle Pivot Bracket
10	2306134	M16 x 80 Hexagon Head Bolt
11	2306097	M12 x 45 Hexagon Head Bolt
12	2303094	M12 Nyloc Hexagon Nut
13	6900985	Connecting Chain
14	7702864	Marker Beam Lifter c/w item 15
15	2309077	M12 x 25 Hexagon Head Screw

ASSEMBLIES & KITS

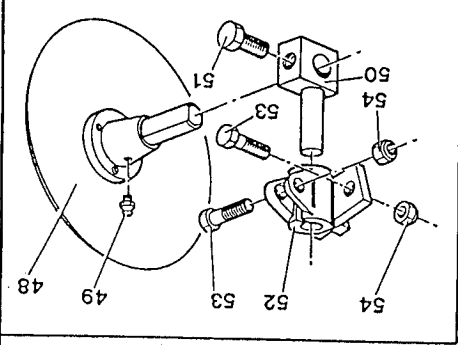
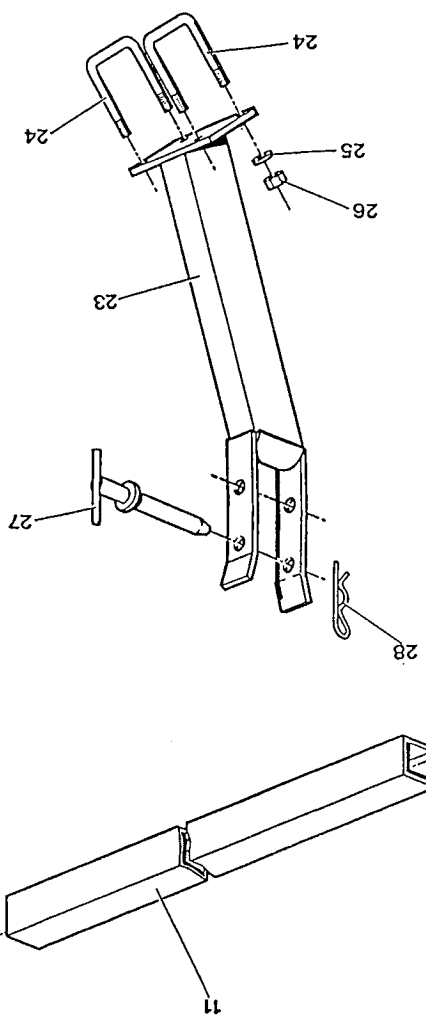
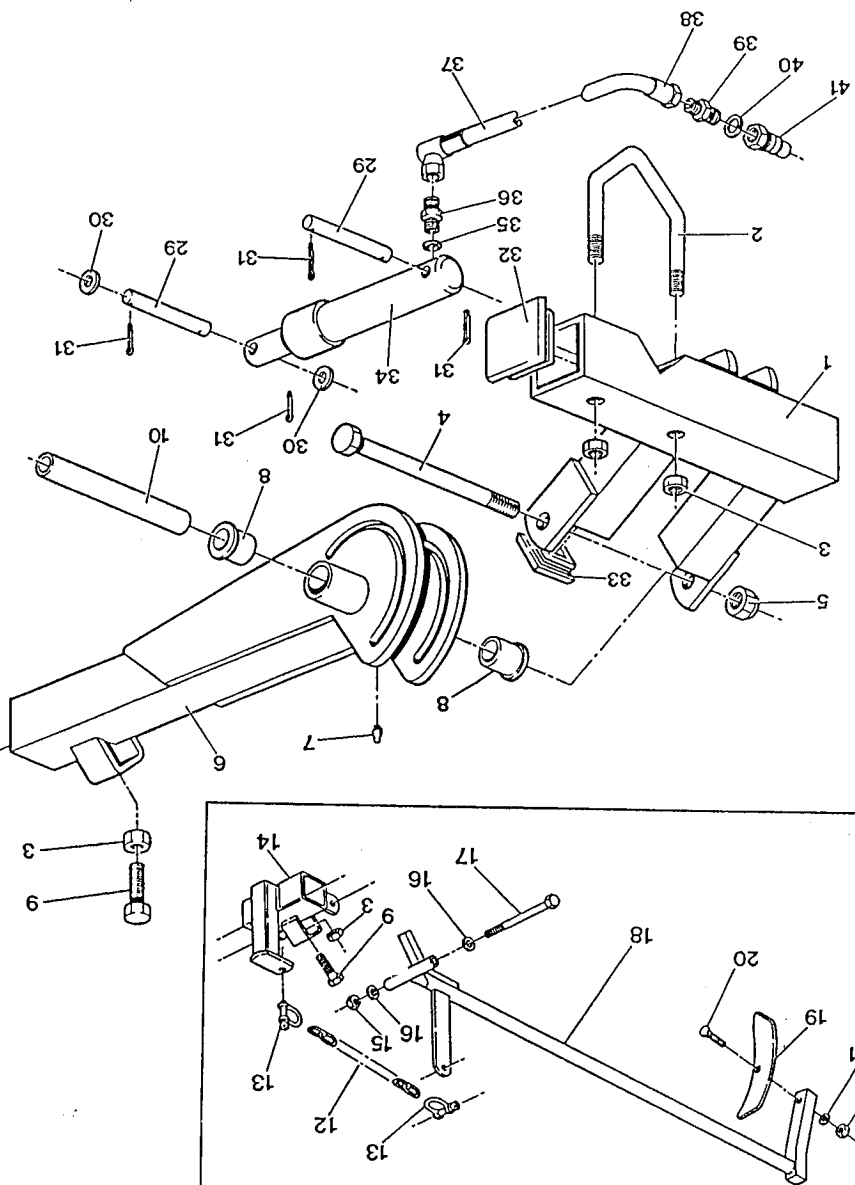
7702925	Marker Lever & Pivot (items 1-12)
8002686	Marker Change-Over Kit complete



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HYDRAULIC MARKERS

Item No:	Part No:	Description:
1	7702225	Marker Attachment Bracket R/H c/w items 32 & 33
	7702226	Marker Attachment Bracket L/H c/w items 32 & 33
2	8002125	7001093 U-bolt c/w item 3
3	2303010	M16 Hexagon Nut
4	2306146	M16 x 200 Hexagon Head Bolt
5	2303095	M16 Nyloc Hexagon Nut
6	7702125	Marker Beam c/w Items 7 & 8
7	6401006	M8 Straight Greaser
8	2002011	Oilite Bearing
9	2306128	M16 x 50 Hexagon Head Bolt
10	6940005	Marker Pivot Spindle
11	6902072	3M Beam Extension
12	6902599	Marker Arm Chain - 8 links
13	6408002	1/4 D-shackle
14	7402521	Marker Arm Bracket
15	2303094	M12 Nyloc Hexagon Nut
16	2311091	M12 Flat Washer
17	2306109	M12 x 130 Hexagon Head Bolt
18	7402522	Marker Arm
19	6000002	Tine
20	2306489	M10 x 40 Coach Bolt
21	2311216	M10 Spring Washer
22	2303008	M10 Hexagon Nut
23	7402237	Marker Support
24	8002126	7001098 U-Bolt c/w items 25,26
25	2311215	M8 Spring Washer
26	2303007	M8 Hexagon Nut
27	7402238	Support Pin
28	2316033	R-Clip
29	6902223	Ram Pin - Body
	6902224	Ram Pin - Rod
30	2311136	M12 Flat Washer - Large Diameter
31	2215566	3.2 x 25 Split Pin
32	6402015	Plastic Plug
33	6402018	Plastic Plug
34	4105029	Marker Ram
35	4003003	Dowty Bonded Washer - 1/4 BSP
36	7702200	1-Way Restrictor - 1/4 BSP
37	4106114	Hydraulic Hose
38	4107091	Re-Usable Coupling - 1/4 BSP Straight
39	4107109	Adaptor 1/4 - 1/2 BSP
40	4003007	Dowty Bonded Washer - 1/2 BSP
41	4107100	Breakaway Probe - Male - 1/2 BSP



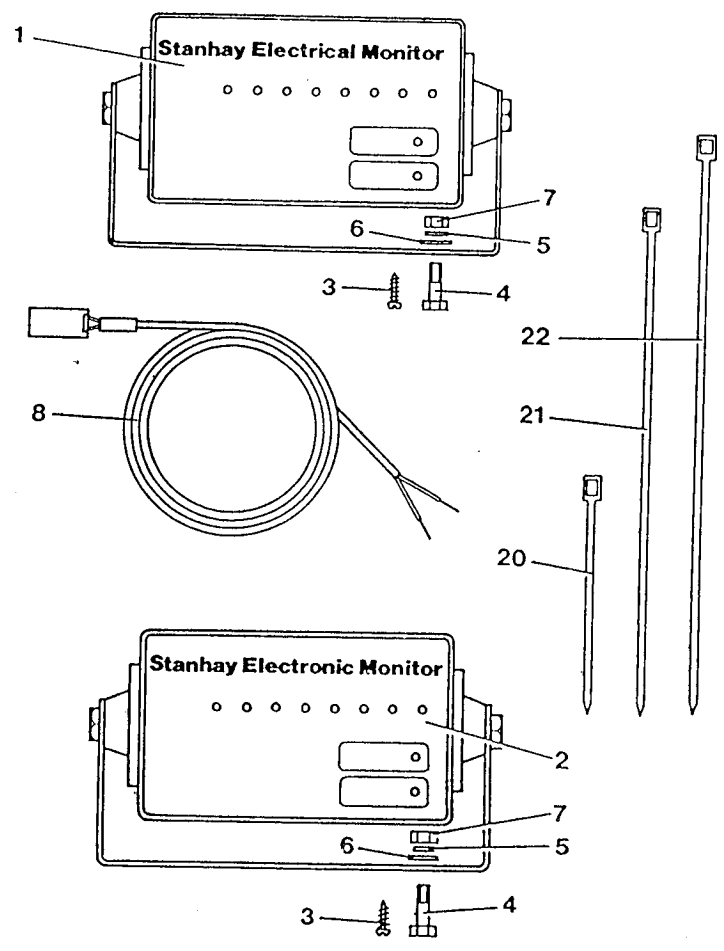
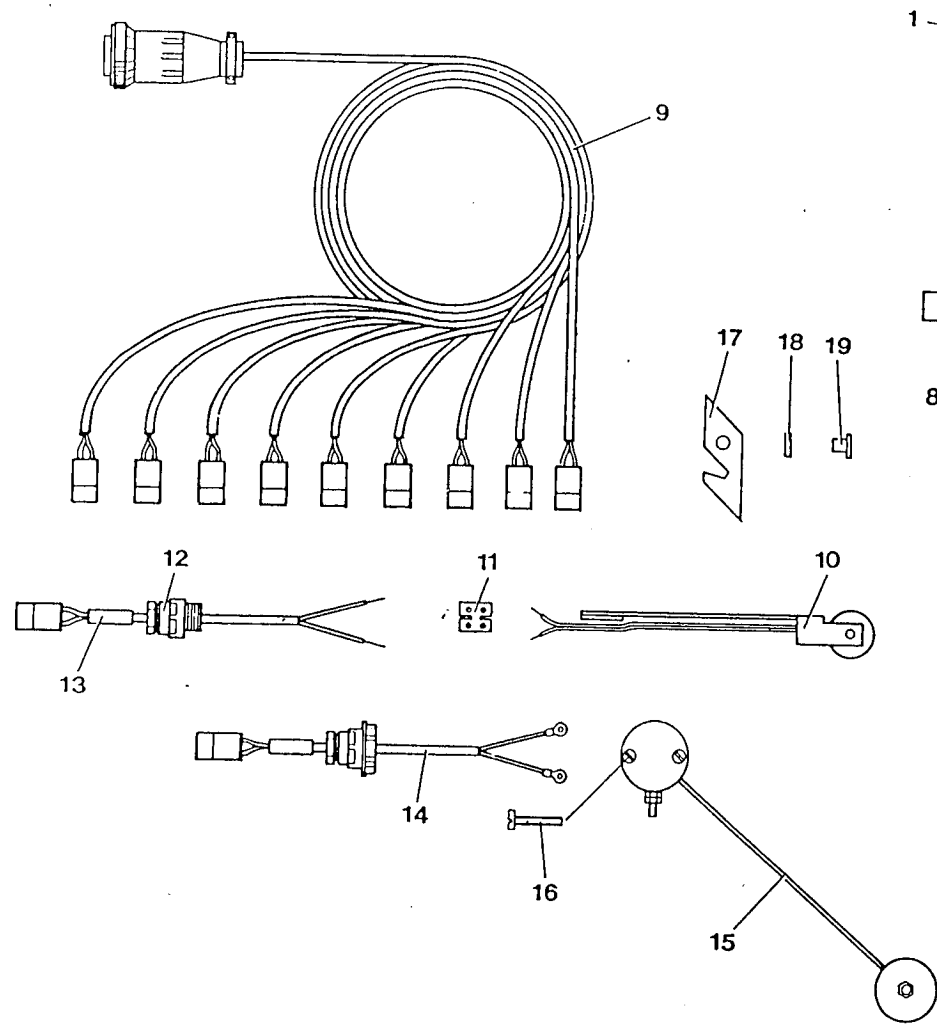
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HYDRAULIC MARKERS

Item No:	Part No:	Description:
DISC MARKER CONVERSION		
48	7700731	Disc Marker Assembly c/w item 43
49	6401003	1/4 BSF Straight Greaser
50	7402359	Disc Stem
51	2309077	M12 x 25 Hexagon Head Screw
52	7402314	Disc Clamp Bracket R.H.
	7402315	Disc Clamp Bracket L.H.
53	2306066	M10 x 40 Hexagon Head Screw
54	2303109	M10 Nyloc Hexagon Nut - Thin

KITS

7702834	Marker Arm & Bracket (items 3,9, 12-22)
7702194	Marker Support (items 23-28)
7702263	Disc Marker & Brackets R/H (items 48-54)
7702264	Disc Marker & Brackets L/H (items 48-54)
8014767	Seal Kit for item 34
8002049	Pair of 3M Hydraulic Markers



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ELECTRICAL MONITORING SYSTEM

Item No:	Part No:	Description:
1	5301008	8 row Light Box c/w item 8
	5301010	16 row Light Box c/w item 8
2	5301023	4 row Electronic Box c/w item 8
	5301024	5 row Electronic Box c/w item 8
	5301025	6 row Electronic Box c/w item 8
	5301026	7 row Electronic Box c/w item 8
	5301027	8 row Electronic Box c/w item 8
	5301028	9 row Electronic Box c/w item 8
	5301029	10 row Electronic Box c/w item 8
	5301030	12 row Electronic Box c/w item 8
	5301031	15 row Electronic Box c/w item 8
3	2385052	No.8 x 8 Pan Head Self-Tapping Screw
4	2309034	M6 x 20 Hexagon Head Screw
5	2311214	M6 Spring Washer
6	2311088	M6 Flat Washer
7	2303006	M6 Hexagon Nut
8	5201039	Power Supply Lead
9	5201052	4 row Loom
	5201059	6 row Loom
	5201060	8 row Loom
10	7702476	Belt Tensioner & Reed Switch Assembly
	5208050	Reed Switch (bolt-on) c/w Screw & Nut
11	5209051	2-way Connector
12	5205004	Indicator Lead Gland
13	5201040	Indicator Lead
14	5201041	Hopper Monitor Lead
15	7702043	Hopper Monitor (Cranked Arm)
16	2219288	5BA x 1 Slotted Cheese Head Screw - Brass
	2201706	5BA Hexagon Nut - Brass
17	7000038	Monitor Arm Catch
18	6900037	Arm Catch Spacer
19	2212559	Pop Rivet
20	5215044	Cable Tie
21	5215045	Cable Tie
22	5215046	Cable Tie

NOT SHOWN ON ILLUSTRATION

5201049	Power Supply Adaptor Lead (to power 2 boxes)
5201045	Extension Lead (Light Box to Loom)
5201046	Extension Lead (Loom to Metering Unit)
5201061	Unit/Loom Repair Kit (8 rows)
5203022	Loom Plug Kit (14 pin)
*5306004	1-8 row Electronic Conversion Kit
*5306005	9-16 row Electronic Conversion Kit
5306007	8 row Electrical Fascia Board
5306008	16 row Electrical Fascia Board
5306009	8 row Electronic Fascia Board
5306010	16 row Electronic Fascia Board

* State number of rows required.

