

### IMPORTANT

Before using the Merry Tiller please read SECTION 1 and 2 of this booklet and the engine booklet. Maintenance Instructions are given in SECTION 3.

MANUFACTURED BY

### LSELEY ENGINEERIN WITTON

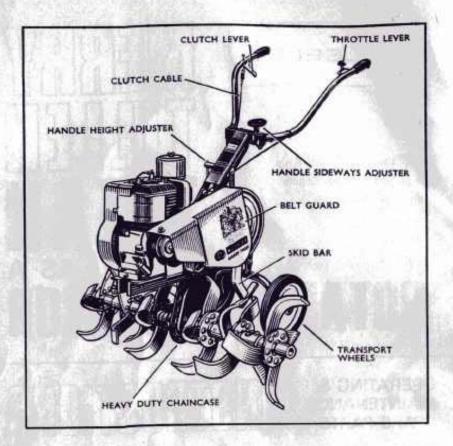
BIRMINGHAM Telephone. 021-327 4821 (7 fines)

# **Wolseley Merry Tiller** Titan **Cultivator Tiller** Rotavator

Manual – Operating & Maintenance Instructions-Spare Parts List

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The Terms RIGHT or LEFT used in this booklet and with all Merry Tiller equipment are determined from the position of the operator standing at the rear of the machine facing forward. All rotors and wheels are marked with Red Paint for Left Hand and Green Paint for Right Hand.

### SECTION 1 BEFORE USE

### **Preparing the Engine Unit**

With each Merry Tiller Titan there is an instruction book for the engine unit. Please refer to this before starting.

Remember that there is no oil in the engine sump nor in the Merry Tiller chaincase when the machine is new.

The engine unit is a four stroke petrol engine and NO QIL should be put in the petrol tank.

The Briggs & Stratton engine is fitted with a manual choke.

For throttle adjustment see page 7.

### Preparing the Machine for Use

The Transmission Chaincase should receive 2 pints of SAE 30 or SAE 20W-30 detergent oil as recommended for the engine unit.

### To Fill

Remove the oil filler plug. Tilt the machine on to its left side and pour in the oil. Replace the filler plug.

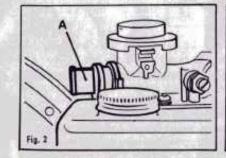
### SECTION 2 USE

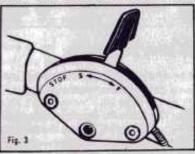
### IMPORTANT

### To Start the Engine

Ensure clutch is in released position before attempting to start the engine.

- 1. Pull out choke 'A' on carburettor. (See Fig. 2)
- 2. Push throttle lever forward into fast running position marked 'F'. (See Fig. 3)
- Pull the starter cord evenly and without jerking. Allow the cord to return steadily avoiding 'springing back' which can damage the starter mechanism.





3

#### Running

Once the engine starts, push choke 'A' in by hand. Engine speed can be reduced by pulling the throttle lever back towards 'S' and increased by pushing the lever towards 'F'. For general use set the throttle in the mid-position (as illustrated page 3).

### To Stop the Engine

Move throttle lever into the 'Stop' position.

#### Remember

To release the clutch before attempting to start the engine.

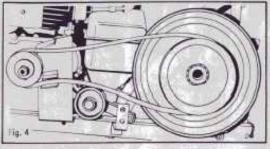
To use the correct length belt (see below).

To pull the starter cord evenly and allow it to return without springing back, as this can damage the starter.

To lift the clutch lever slowly when commencing work.

#### **Two Speed Control**

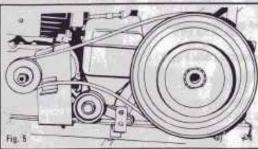
The Merry Tiller Titan is supplied with two belts, A41 and A48.



### For Cultivation

Use the A41 Vee Belt driving from the 3" engine pulley to the 6" Drive Polley.

For Rotor Speeds see page 9.



#### For Other Applications

The A48 Belt should be used for SLOW Speed applications such as:--Ploughing, Sickle Mowing

Use 2" engine pulley driving to 10" Drive pulley

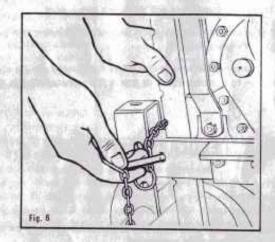
### **Operating Suggestions**

When at the area to be cultivated, remove the transport wheels or turn them upside down on the hitch casting.

Select the rotors for your particular job and attach them to the rotor shaft with the pins and spring clips provided. Always insert the pins so that the head leads forward at the top, this will ensure the spring remains closed.

In rough conditions the wheels can be used to steady the machine in use but these wheels should never be used as a depth control. The position of the operator in relation to the machine is important and when using the Titan at its set depth the operator's arms should be almost straight.

Set the depth required on the rear skid for comfortable control. Further adjustment for correct positioning can be obtained by adjusting the handles for height when the machine is at its set depth. The control of the Titan as a cultivator is achieved by pushing the rear skid into the ground and then raising the clutch lever to start the rotors turning. Press down on the handles until the required depth is obtained and then use only sufficient pressure to maintain the machine at the depth. To dig more deeply apply more pressure to the handles thus causing the skid to penetrate more deeply and thus the rotors will dig deeper.



### **Further Operating Suggestions**

To control the depth of tilling, the Merry Tiller must be operated with both the proper throttle speed an - correct up and down pressu in the handles. Raising up means going forward, as by so doing the skid bar is allowed to come out of the soil.

Pushing down means slowing the machine as the skid is pushed further into the soil. At the same time the machine will dig deeper.

When you are first learning to use the Titan, it is not unlikely that it will tend to buck or move from side to side. This will soon be overcome with use. To acquire the knack of letting the machine do the work without effort on the part of the operator, we offer the following suggestions:--

- 1. Concentrate on keeping your arms relaxed.
- When working across a slope turn the front of the machine slightly uphill to stop any tendency for the machine to run downhill.

- For best results operate at reduced throttle settings when the ground is very hard or rough.
- Do not hurry the job—proceed at a slow walk—thus giving the machine time to do its work.
- It is advisable to re-adjust the height of the rear skid to maintain the correct height of the hancles after the Tiller has dug down to its correct depth.
- 6. The rear wheels may be used to steady the machine if required.
- It is better to release the clutch lever and go over the ground again if the machine starts to run away, rather than straining to hold it back (which should not be necessary).
- Cultivate only when it is suitable to do so. Frozen or waterlogged ground, if cultivated, can cause poor soil moisture movement.
- Cultivate at a different depth each season to prevent the possibility of "panning" in the sub soil.
- Do not cultivate on the Icw speed as this will not only be slow but may cause damage to the chaincase or rotors if an obstruction is met.

### SECTION 3 REGULAR MAINTENANCE

#### Engine

Refer to the engine manual. In very dusty conditions it may be necessary to change the oil more often than suggested.

Remember that the engine unit depends upon a flow of air over the cylinder head and barrel for efficient cooling. Do not allow dirt or trash to build up in the cooling fins or behind the metal cowls.

### **Fitting Throttle Control and Adjustment**

If the existing throttle cable has broken at the engine end, it can be used again.

If a new cable and control is required, fit as follows :---

Release bolts and nuts at the control on handlebar, remove the air filter and release the cable clamp and cable at the engine and withdraw.

Place in position the new control lever , insert the bolts and attach nuts and tighten.

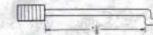
## Throttle Control Adjustment

### IMPORTANT

Do not attempt to adjust throttle control with the engine running.

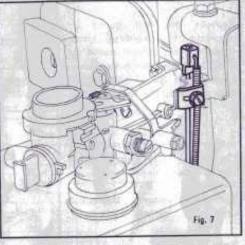
With the throttle lever pushed fully forward i.e. past 'Fast' running position, bend the inner core of the throttle cable at right angles 1§" from the outer cable end. Next bend cable at

right angles again as shown below.



Feed cable between petrol tank bracket and the rear of the blower housing. Fit clamp in place over the outer cable and lightly tighten clamp screw. Insert inner cable through the nut on the end of the vertical throttle link rod. (See Fig. 7.) Adjust the outer cable in the

clamp until approximately 1 protrudes above the top of



the clamp. Pull the throttle control lever into the 'STOP' position and, if setting is correct, the cut-out mechanism on the carburettor will operate. If the cut-out does not operate, draw the outer cable down through the clamp until the cut-out operates. If the cut-out operates before the throttle lever is in the 'STOP' position push outer cable up through the clamp to adjust. When the correct setting and operation is obtained tighten clamp screw.

Refit the air filter.

#### **Transmission** Case

On the right hand side of the case just above the engine mount is an oil level plug. This should be removed from time to time to make sure that the oil level in the chaincase is maintained and if necessary a small amount of oil added to maintain the cuantity of 2 pints in the case.

It is most important that the level of oil in this case should not be allowed to drop.

#### **Clutch Adjustment**

The clutch should engage when the lever is raised about two-thirds. When disengaged the belt should be completely slack and not binding. Always use the correct belt. The Merry Tiller has a special belt with a low length tolerance variation and non-rubberised case. A rubber cased belt may cause creeping forward of the machine.

IMPORTANT: DO NOT ATTEMPT TO ADJUST THE CLUTCH WITH THE ENGINE RUNNING.

### **Initial Adjustment**

The clutch cable provided has a standard length with adjusting links at the lever end. Connect the control spring to link 5 as illustrated before adjusting the clutch.

Remove the belt guard by releasing the holding knob Undo the adjustment nut A so that the clutch wire is slack. Loosen nut 8. This locks the idler arm in relation to the spindle.

Adjust the idler arm in relation to the spindle to take up some of the belt slack.

Re-tighten nut B.

Sufficiently screw up the nut A until correct setting is obtained.

### **Belt Slippage**

Always use the correct belt, this can only be obtained from your dealer. As above, do not use a rubber covered belt.

Belts will tend to slip as the pulleys wear and also if oil leaks onto the belt.

### **Oil Seals**

On the chaincase input shaft (top) the oil seal can be easily replaced having removed the pulley and key.

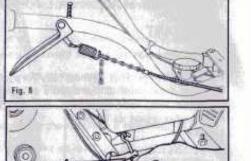
Prise out the oil seal with a screwdriver and before fitting the new seal make sure the keyway is clean and smooth.

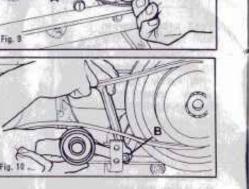
Tap the new seal in position and refit the pulley.

Always tighten the grub screw.

### **General Hints**

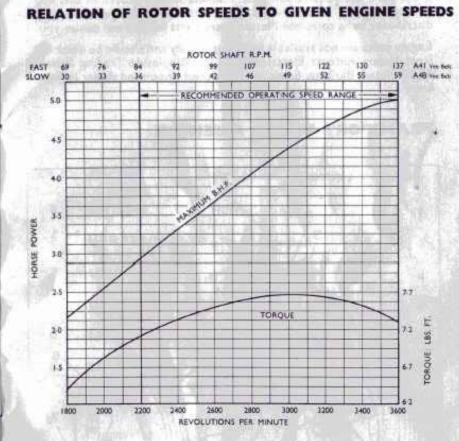
- When storing the Merry Tiller for long periods make sure that the engine unit is stored as per the instructions.
- 2. Make sure all nuts and bolts are tight before and after use.
- 3. Do not carry out adjustments with the engine running.
- 4. The life of the machine will be improved if it is kept clean.
- It is advisable to have your Merry Tiller checked and overhauled periodically by the authorised distributor in your area, whose name and address, if not known, can be obtained from the factory.





### SECTION 4 GENERAL SPECIFICATION

Alle reacting energy substants ration which there rate as the Photothe reactions and Distributes is an even being providential to a dot interactions, substantial



All machines are fitted with recoil starters, three stage reduction chaincases with oil bath lubrication. Final drive is by heavy duty rotor shaft. Constructed with heavy gauge angle steel mounts, cast steel hitch assembly and heavy gauge steel tube handles.

Merry Tiller Titan with Briggs and Stratton Engine Engine power is 5 h.p. at 3,600 r.p.m. (American rating) Engine capacity is 206 c.c. or approx 12.57 cu. ins. Tank capacity is 5 pints of petrol (not Petrol/Oil Mixture)

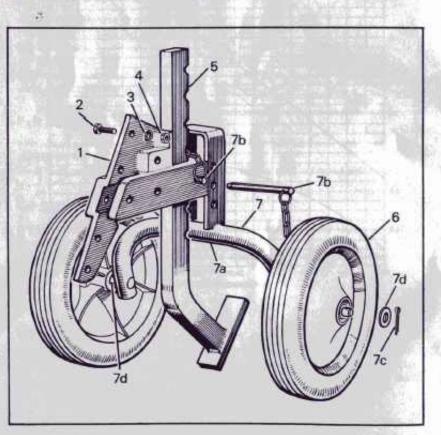
### SECTION 5 SPARE PARTS

When ordering spare parts make sure that you quote the Model Part Number and Description as this will help your distributor to supply the correct part quickly.

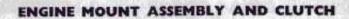
If the part you require for your machine is not quoted in this list, perhaps due to changes which have occurred in design, then your distributor has a complete Master Spare Parts list and can advise you.

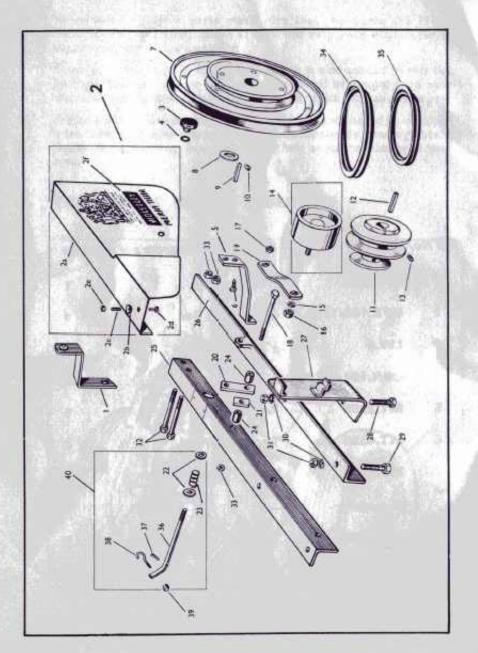
Engine parts are not available from this factory and should be obtained from Messrs Autocar Electrical Co. Ltd., Rippleside Trading Estate, Ripple Road, Barking, Essex, or from their appointed dealer in your area.

### TRANSPORT WHEEL ASSEMBLY

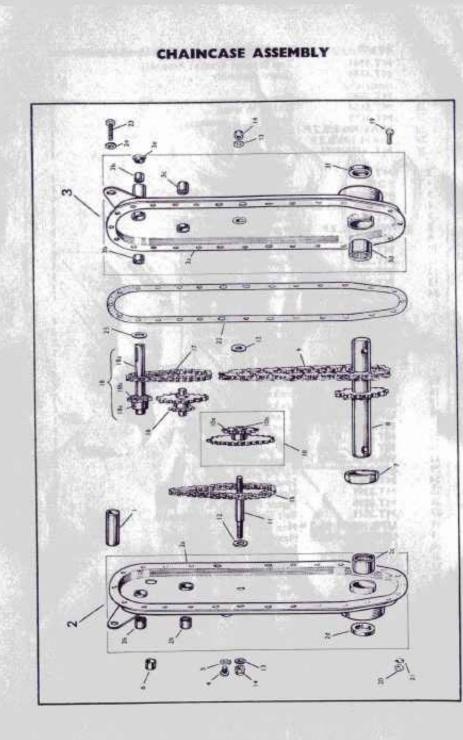


Item No.	Part No.	Part Name Quantity per Machine	
1	MT.3248	Hitch Casting 1	
2	UFB.104/16/R.ZP	1" x 1" Hex Bolt 4	
3	LW.4	4" Spring Washer 4	
4	UFN.104/S.ZP	≟" Hex Nut 4	
5	MT.2295	Rear Skid 1	
6	MT.4328	Transport Wheel 2	
7	MT.3605	Wheel Frame Assembly 1	
	comprising:-		
7a	MT.2290	Transport Wheel Arch 1	
7b	MT.2506	Hitch Pin Assembly 2	
7c	MT.1561	Split Pin	
7d	W.8/S/L.L/ZP	Washer	



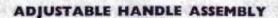


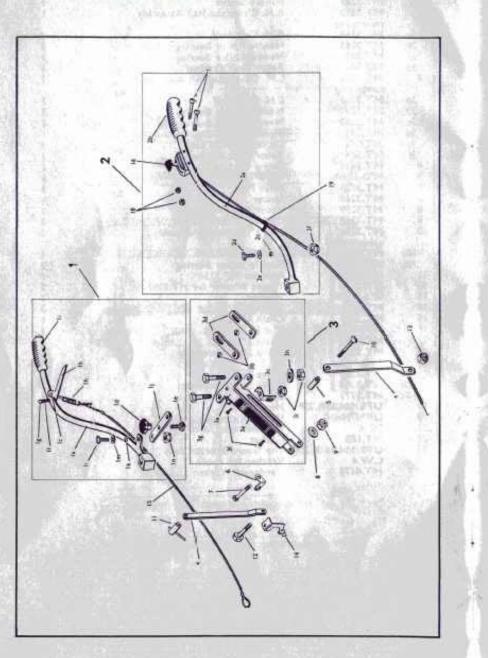
tem No.	Part No.	Part Name		Qu	antity	per Machin
1	MT.3541	Top Support Bracke	r Ares	1.		1.000.000
2	MT.4256	Guard Assembly				
10/10/10	comprising	dual d Pasembly				**
2a	MT.3540	Guard				
Zb	MT.3164					
20	MT.3170	Dished Washer	++1			Sec. 1.
and the second second		Spring		10.00	1.4.4	
24	2BAS/700/8/S.ZP	Screw				10
Ze	28AN/100/S.ZP		See		1442	
25	MT. 4176/4181	Transfers	10	ine.		
100	prost person in the					
3	MT.3168	Plastic Knob	6.45	1942	124.4	
4	FD/5	Fan Disc Washer	.1.			
5	MT.3620	Lower Support Brad	ket			
6	WS/105/10/R.ZP	Guard Bracket Scre			- 229	1.5.2.5.3
7	MT.3514	Transmission Case F			12	1 C 1 Sec. 2
8	WI0/S/SL.ZP					
9	MT.375	Washer Key	11000-		100.0	1.11
10	MT.3307			14.8		244100
ii	MT.3515	Grub Screw Double Engine Pulle Key Grub Screw		1.1		1. ** C
12		Kow	1	1.4.4.		
	MT. 2925	Ney	++	Stri	1.151	1 At
13	MT.3091	The second s				4. 11
14	MT.3598	Idler Bearing Assem	oly	Delet-	+ + 1	44.
	comprising	Participation and a second				
	MT.3592	Idler Wheel	18.00	Thereis - 1	18.85	
51011	MT.3593	Idler Wheel Spindle	19 - ·			245 (1)
Not	MT.3594	Needle Bearing	lan.	TROL	144	
Shown	MT.3595	Circlip				
	MT.3596	Oil Seal		1.4		1.000
	MT.3599	End Cover	1000	1.1	1.1	
15	W6/S/SL.ZP					
16	MT.2857	Washer	Sec.	100	100	10
17	MT 2021	Locknut				**
18	LIEB/105/48/55 70	Guard Bracket Bolt	100		14.4.1	
19	MT.3635	Idian Arm	27		100	
20	MT.2962	Idler Arm	100	200		1
		Chaincase Support I		and the second sec	144.5	
21	MT.2961	Chaincase Support I		1.8.8	det al	1.44
22	W6/S/SL.ZP	Washer			1.44	-
23	MT.3644	Spring	(e.t.)		144	
24	MT.3367	Spacer	18 A.		44.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
25	MT.3391	Motor Mount R.H.	16-	ins.		
26	MT.3295	Motor Mount L.H.		100	1.4	100
27	MT.3511	Belt Guide Bracket	Assen	nbly	1993	120
28	UFB/105/28/SS.ZP			-	125	
29	UFB/105/24/SS.ZP					0010
30	LW.5	and the second		COLUMN TWO IS NOT	1.50	
31	UFN/105/5.ZP			14.40	19.9	
32	UFB/105/44/SS.ZP			14.4	14.4	1.44
33	MT.2857	a contract of the second se		110	-	1. A.A
33		March Physics & arts	÷.			44
	MT.3371	Vee Belt A.48	**		14.45	2210
35	MT.2992	Vee Belt A.41	4.4			
36	MT.3643	Idler Arm Spindle		100	188.4	1.1
37	B.764				÷.	See. 18.
38	MT.3637	Hook Bolt		441	24	1
39	MT.3645	Grooved Nut.				DADES
40	MT.3744	Clutch Idler Spindle	Asser	nbly	1.	



em No.	Part No.	Part Name	16.7.8	Quantity	per Maci	hine
1	MT.3297	Handle Spacer	C			1
2	MT.3253	R.H. Chaincase Half As	ssembl	y		1
	comprising	Schulture and an and a start way	S THERE Y	10	LANE .	
20	MT.3264	R.H. Case Half			1.12	1
25	MT.3263	Needle Roller Bearing				2
20	MT.343	Needle Roller Bearing				1
2d	MT.344	Rotor Shaft Oil Seal				1
3	MT.3252	L.H. Chaincase Half As				1
- 98 - 19	comprising	CONTRACTOR AND	10000	10.00		12
30	MT.3261	L.H. Case Half	8 13			1
35	MT.3262	Needle Roller Bearing				2
30	MT.3263	Needle Roller Bearing				Ĩ
30	MT.343	Needle Roller Bearing			1.	1
3e	MT.342	Drive Shaft Oil Seal			1.2	1
31	MT.344	Rotor Shaft Oil Seal				1
4	MT.3438	Screw Oil Level		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12	
6	WD.104A	Fibre Washer			2	- 11
5	MT.3735	Filler Plug			- 35.0	10.0
7	MT.3260	Spacer.			12	1.1
6	MT.3259	Rotor Shaft Assembly				1.54
8 9	MT.3267	Chain 2" Pitch			1.2	
10	MT.3256	4" x #" Sprocket Asse	mbly			1.1
10		A X I phoeser wase	mory -	11 : 222	55	
10.	comprising	Sprocket	A			1.1
10a 10b	MT.3280 MT.3281	Needle Roller Bearing	26.23	Sec. 12	**	ż
11	MT.3257	Axle for MT 3256		S	**	î
12	MT.3258	Thrust Washer for MI	73057	5 - <u>R</u>	- <del>1</del> 200	ż
13		AA/	1.3231	**	19 a	2
14	W.6/S/SH	A SHORE CONTRACTOR	and the second			2
	MT.2931	Locknut		11	21 1	1
15	MT.3266	Chain 4" Pitch	23		100	1.1
16	MT.3255	a" x a" Sprocket	8. T. W		++	100
17	MT.3265	Chain #" Pitch				- 35
18	MT.3254	Drive Shaft Assembly	81. 7	1 ( P.F.)	1.4.4	. 85
10.	comprising	man and and an				
180	MT.3283	Drive Shaft	5. 4		44	1
185	MT.3284	Drive Shaft Sprocket	115.2	52 H	1. 282.3	1
180	MT.3779	Spirol Pin	111111	ALC: URANI SI	1.85	1
19	UFS/104/8/R.Z.P	Hex Screw			6. 67	20
20	UFN/104/A	Hex Nut				21
21	FD.4	Washer		5 ( * F		20
22	MT.105	Gasket				
23	UFS/104/10/R.ZP	Top Guard Bracket B	olt			17.
24	L.W.4 MT.4175	Washer for above .	t. 18		±*:	
		Hardened Washer	6 6			100 C 100

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Item No.	Part No.	Part Name	1.1414	Q	uantity	per Mac	hine
1	MT.3527 comprising	R.H. Handle Assen					1
10	MT.3531	R.H. Handle Weld	Assem	bly	1000		1
15	MT.3311	Clutch Lever	rissein		1	10000	1.4
le	MT.3329	Clutch Lever River				**	- i
id	MT 2309	Clamping Knob					1
le	MT.3529					E MARY	10.0
îř	MT.3058	Locking Bolt	(#4, 1)				1
11000	MT.3330	Clutch Catch Sprin	g	**	14		
1g	MT.152	Clutch Catch Rive Clutch Control Sp			1.50	1.44	
Ih		Clutch Control sp	ring	++	17	4.4	1.1
H.	MT.3294	Handle Grip	+ +	**	- 28.	1 44 1	1.1
11	MT 3543	Upper Cross Bar			1.4	1.44	2.4
lk	MT.2634	Spacing Collar Lon	g	4.4		14.8	1
11	UFS/106/16/SS.ZF						
lm	W6/SS.H/ZP	Washer	111	1.1	4.4		1
_1n	MT.2931	Locknut	10.50	6.4		1.44	1
2	MT.3528	Handle Assembly L	.H.	**	1.4		1
00-1-1-1	comprising						
20	MT.3533	Handle Weld Asse	mbly L	H.			1
26	MT.3294	Handle Grip				1.5316	1
20	MT.2634	Spacing Collar Lon	g		1000	1857	1
20	UFS/106 16/SS.ZP	Bolt	•	1.1		1000	1
2e	W6/S.S.H/ZP	Washer	12		822	100	1
2f	MT.2931	Locknut	65		9955	122	- i
3	MT.3606	Handle Mounting E	racket	Asse	mbly	1000	1
	comprising		machee				1.11
30	MT 3552	Handle Mounting B	Iracket				1
36	MT.3554	Spacing Collar Sho			12.	**	ż
30	MT 3887	Cable Guide					î
30	MT.3545	Locking Plate	1.				2
30	MT.4173	Nameplate Titan			1981	**	î
3f	WD.139		12			1.44.20	
		Nameplate Screws			1.00	1.441	2
3g	UFB/106/40/SS.ZP	Hex Bolt	÷.		1280	1.00	2
3h	W6/S/SH/ZP	Washer			20	1.000	1
31	MT.2931	Locknut			12	1	2
4 5	MT.3544	Stay	14.4		1.8.81		2
6	MT.3616	mbarret in in	**	3 · · ·			1
	MT.3765	Cable Guide		34.2	1.000	12200	1
7	UFB/108/56/SB.ZF		10.00	44			1
8	W8 S SH.ZP	Washer	4.6		144	1211	1
9	MT.3332	Locknut	See. 1	144	144	Sec. 1	1
10	MT.3530	Cup Square Bolt	and an	144.00	1.1.1		1
11	MT.3061	Clamping Nut Asse	mbly		5.4		1
12	UFB/106/32/55.ZP	Bolt	and the second		199	4.83	1
13	MT.2931	Locknut	222	1000	1.0	1996	1
14	MT.4091	Throttle Control B	racket	100		0.01	1
15	MT.3982	Clutch Cable Assen	ibly		100		1
16	MT.4148	Throttle Lever and			1.24	1935	1
17	2BAS/600/28/S.ZP	A REAL PROPERTY OF A REAL PROPER		10	1.		2
18	28AN/100/S.ZP	Nut					2
19	KK.683	Cable Grip Rubber	1.12	**	100	244	ź
					0.4.8	144000	

As manufacturers Wolseley Engineering Limited hope that you will be satisfied with the performance of your Merry Tiller Titan.

In order to make your gardening easier and give you more time for relaxation we would draw your attention to the items below which can give you all year round use for your machine

MT.3678	Plough Attachment
MT.2737	Heavy Duty Toolbar
	Rotary Grasscutter
MT.3757	36" Sickle Mower
MT.2173	Load Carrier
MT.2390	Canvas Cover
MT.3575	Vee Plex Pulley (Required for all power driven tools)
MT.2618	P.T.O. Attachment (to which can be added the range of Tarpen Flex Equipment)
MT.2466	Bulldozer Blade (Also available for front mounting)
MT.2978	Yard Scraper
MT.3003	Rake Attachment
MT.4262	Reverse Drive Attachment

## This is a free download from:

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