AG ATTACHMENTS LIMITED

FIELDMASTER®

• PREMIUM FARM EQUIPMENT •

Topper Mower, Parks Mower

Models: TM, PM, OM, PMM Mini



OWNERS/OPERATORS MANUAL

AND SPARE PARTS LIST

Introduction

Your FIELDMASTER mower has been designed to do a range of work to your satisfaction. This list of instructions covers the basic requirement for maintenance and will ensure good service if carried out.

Please read the whole of this manual and familiarise yourself and/or any other operators that may be required to operate this machine before attempting to

(a) fit the machine to the tractor, (b) carry out any adjustments, (c) operate the machine.

General Safety Precautions

*¶ Preventing accidents is the responsibility of every equipment operator.

STOP MACHINE

CAUTION

- BEFORE DISMOUNTING FROM TRACTOR
- MAKING ANY ADJUSTMENT TO MACHINE
- CLEARING ANY BLOCKAGE OR OBSTACLE

WARNING

Keep children and spectators clear – ejected material can fly some distance. Inspect machine regularly for damaged blades or wear – replace any damage before continued use.

- DO NOT allow persons to operate machine without proper INSTRUCTIONS in the use of the machine.
- (DO NOT USE FOR PURPOSES OTHER THAN FOR WHICH THE MACHINE IS DESIGNED).
- In adjustments and operating factors recommended for particular uses.
- In maintenance of safety guards and all factors of machine servicing for safe operation. - A

IMPORTANT

safe speed to operate machine taking to account particular site and use.





IMPO

Lubrication is cheap maintenance – adhere to recommended servicing schedule.

Check and tighten all bolts on your machine after the first few hours of operation.

Fitting to the Tractor

Ensure tractor linkage is level – adjust. Drop arm wind handle to enable machine to lift evenly and sit evenly on ground.
Top link bracket should be in floating position after selecting preferred cutting height (on roller or wheels). Precise cutting height can be varied using roller or wheel adjustments.
Check driveshaft length to ensure shaft does not "bottom" when machine is raised, (shafts can be shortened by cutting male and female tube). At any position, the telescoping tubes must be at least 1/3 engaged.
Set stop on hydraulic quadrant to prevent over lifting machine and damaging driveshaft on machine front edge when in raised position or excessive PTO angle.
Adjust linkage sway chains to prevent unnecessary machine side movement.
Before the initial start up of the machine, check gearbox oil level, belt adjustment is correct and all bolts are tight.

The Telescopic Drive Shaft

After hitching up, the telescopic drive shaft can be attached. Careful attention should be given because only correct fitting of this unit can give the best service.

Check the driveshaft length to ensure shaft does not "bottom out" when machine is raised or lowered.

There is a wide range of tractors and the horizontal distance between the power take off shaft and the drawbar varies considerably. A specific instruction for each would require extensive research. However, taking for example the minimum and maximum conditions, safe working lengths of the drive shaft are given as follows:

At any position, the driveshaft tubes must be engaged together by at least 1/3 of the length of the telescoping tubes.

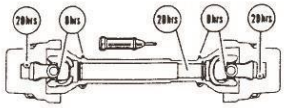
Should your driveshaft need shortening, simply remove the plastic safety covers and cut the steel tubing to the required length with a saw, remove any rough edges or burrs, then refit the safety covers.

Ensure that both splined yokes are securely fastened to the splined shaft on both the tractor and the mower.

Operation Hints

1. Set cutting height high for initial cut in any area where obstacles are unknown.
2. Machines operate best at 540 PTO delivery.
   (a) Let rotor speed reach this speed before commencing tractor forward.
   (b) Achieve suitable ground speed with tractor gears rather than using throttle continuously.
3. Anti-scalp saucers can be fitted to centre or all spindles – recommended in undulating conditions – will increase blade and belt life in addition to preventing scalping.
4. Roller models are generally recommended for safety reasons (roller performs completed discharge barrier) and also enables mowing over kerbs or garden edges saving manual trimming.
5. During operation of the machine, the weight of the mower should be carried on the rear roller and lower link arms of the tractor. The top link toggle should be able to float at all times to allow the mower to follow the contour of the ground.
6. Only use the top link toggle in 'fixed' or 'rigid' position during transport of the mower. Failure to fix the top link toggle in rigid position during transport will result in severe deck, frame or chassis cracking.

Lubrication and Maintenance



Driveshaft

Grease driveshaft on new machine prior to commencing work, and daily when in use. The sliding shaft in the tubes must be fully pulled apart to correctly lubricate with grease. Failure to lubricate the tubes will 'lock' the telescoping tubes during use.

Gearbox

Check oil level before using and check daily to oil level plug (or instant check sight glass if equipped). Use SAE 90 EP oil. Drain oil after first 50 hours of use, thereafter every 80 hours.

Spindles

It is recommended that you use your dealer to service spindle for bearing replacement (this is a precision part requiring the right equipment and 'know-how' for correct servicing).

Blades

Blades cut best if kept sharp (do not over grind or heat blade otherwise blade temper could be impaired affecting both blade life and wear).

Note: When replacing blades use only genuine Fieldmaster blades and bolts.

Genuine Fieldmaster spares are fitted for safety and longer life (use of non-genuine parts invalidates your warranty). Keep a spare set of blades and mounting bolts on hand for immediate servicing when required.

Belts

Use only genuine Fieldmaster supplied deep groove belts (these belts have been selected carefully to transmit more efficiently and last longer). Check belts frequently for retention after initial 'run in' period of 6 – 10 hours, thereafter weekly. Do not over tension belts (belt slippage is more likely caused by insufficient PTO revs than incorrect tensions).

Belt drive is tensioned by sliding gearbox using draw-bolt for tensioning. Release the four gearbox mount plate bolts and tension until belt deflects 20mm in centre using thumb pressure. (Important: Ensure the four gearbox mount plate bolts are retightened securely).

For 270/300 4-spindle models gearbox is fixed – Tension belts by adjusting M12 x 100 tensioner bolts attached to tensioner pullies on left & right side under belt covers.

Roller

Grease daily (2-3 pumps only). Do not over grease. Fieldmaster recommends high quality grease containing molybdenum disulphide. Cartridges are available from Spare Parts Department.

Washing Your Machine

Keeping your machine clean will enhance the appearance and minimise the potential of grass acids to cause rusting.

Avoid using high pressure water around top of spindles and underside of pulleys.

After hosing always run machine up to operating revs to remove the water residue before dismounting the machine or placing into storage.

Greasing machine after washing is a recommended habit as this prevents water penetration and makes the machine ready for instant



Contact your local Fieldmaster dealer for all services required.
Always quote model & serial numbers when ordering parts.

Routine servicing IMPORTANT!

Like all machinery and motorcars, your 5000 series mower must be routinely serviced & checked as follows.

After the first 10-15 hours of use; check all gearbox mounting bolts, A-Frame bolts, skid and or roller or wheel mounting bolts, check flail and cutter bolts are tight. These will tend to "bed in" after the 1st 10-15 hours and must be checked. Check all oil levels, driveshaft grease, universal joints, and roller and wheel bearings. Check main hub nut (holding flail/blade carrier to gearbox) is tightened as this is a taper spline shaft that also takes some "bedding-in" and must be tightened. Remove belt covers and check belts are tensioned correctly (see above).

At the end of the mowing season; we request that you call your Fieldmaster agent to have an "out of season service". This will repeat all of the above service checks along with replacement of blade tips, blade sharpening, balance check, check and or replace any worn roller bearings, wheel bearings and ensure the machine is running correctly ready for the next season.

FAILURE TO ATTED TO SERVICING AS SHOWN ABOVE WILL ONLY CAUSE PREMATURE FAILURE OF SOME

3 COMPONENTS. THIS TYPE OF FAILURE IS NOT COVERED BY WARRANTY. **IMPORTANT NOTES:**

CORRECT SET-UP OF 'FLOATING TOP LINK' SLOT / CONNECTION TO TRACTOR:

1. Once the machine is connected to the tractor, set the tractor and machine down on flat ground (preferably concrete)
2. Lift the lower link arms slightly to just take the weight of the front of the machine (i.e. the front of the skids would be 5mm off the ground). If machine fitted with front wheels or rollers these should be set to just run on the ground.
3. Set the lower link draft arms of the tractor at this position so they cannot go lower than this, and ensure they can float. (I.e. not fixed)
4. At this point, set the top link into the centre of the top link slot (not the hole) 5. Ensure the fixed top link hole is only ever used during transport of the machine.

Following this correct procedure will ensure:

-A good even cutting finish
-Reduce the possibility of scalping or digging in
-Extended wearing life of the side skids
-Machine construction is relieved of undue stresses

Failure to set up as above can result in serious damage to the machine caused by tractor weight transferring to headstock and chassis which is NOT covered by the warranty.

Before commencing work you will want to adjust the height of the cut. With your FIELDMASTER MOWER Series here are numerous cutting heights to achieve the optimum desired length of cut to prevent scalping and give an even and accurate cut. N.B. Machine is designed / factory set with correct 'lean-in' angle (blade tip lower at front than rear)for efficient cutting and discharge.

Simple adjustment is carried out by removing the bolts on the side of the skids and relocating them once the skids have been raised or lowered.

There are three basic ways to adjust the height of the cut:

1. By adjusting the skids in relation to mowing deck;
2. By adjusting the rear roller or wheels in relation to the mowing deck and skids; (if fitted)
3. By adjusting both the roller assembly or wheels separately (if fitted) in relation to the mowing deck to give a wide range of roller-to-skids positioning in conjunction with altering the height of cut.

It is important to set your FIELDMASTER MOWER up correctly for mowing according to the ground conditions.

Firstly, in the optimum flat field mowing the Fl ELDMASTER should be used on the roller only with the skids approximately one inch higher above the roller to give stability on any slight unevenness and to avoid any undue lateral roll of the FIELDMASTER at higher speeds.

Secondly, where mowing is not in so perfect a condition, it is important that the skids are set at approximately the same height as the roller when fitted.

Thirdly, in more extreme undulations and rougher ground it is best to have the roller (where fitted) about one inch above the skids.
These three setting positions for three different types of mowing applications have proved to be the most satisfactory.

There are other points which could be mentioned, such as wet conditions where it's important that the roller takes most of the weight of the machine rather than the skid to avoid skid marks and also in very dry conditions if the ground is reasonable skid wear can be reduced with more pressure on the roller. However, individual conditions and varying operators will find success sometimes in the varying of these conditions. A finer adjustment can be achieved by lengthening or shortening the tractor top link arm.

It is important that the top link arm is adjusted so that the skid runners are running parallel with the ground. This will automatically give the mowing deck approximately 3/4" (19mm) 'lead-in' required for good mowing. This check should be made with tractor and mower on level surfaces with mower in cutting position.
The best cutting performance will be gained when a RPM speed of 540 RPM is maintained.

100500HD King Spindle



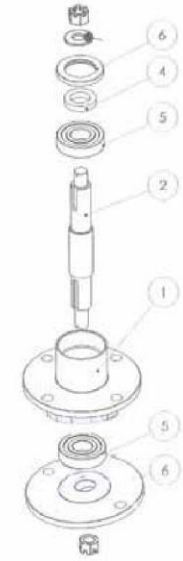
IDENTIFY BY:
RED HOUSING, RED PULLEYS

ITEM	PART NO	DESCRIPTION
1	802784	Double Lip Oil Seal
2	770405	Blade Carrier
3	71348	Hardened Washer
4	367	Castlenut M20
5	100501	Housing (Red)
6	100521	Rint Nut
7	100522	Dust Cover
8	100523	Upper Spacer
9	100552HD	Spindle Shaft
10	2540	Ball Bearing
11	100524	Circlip
1 - 11	100500	Complete Spindle assembly

Used on Fieldmaster HD Park Mowers 5000 series mowers from 2011 onwards



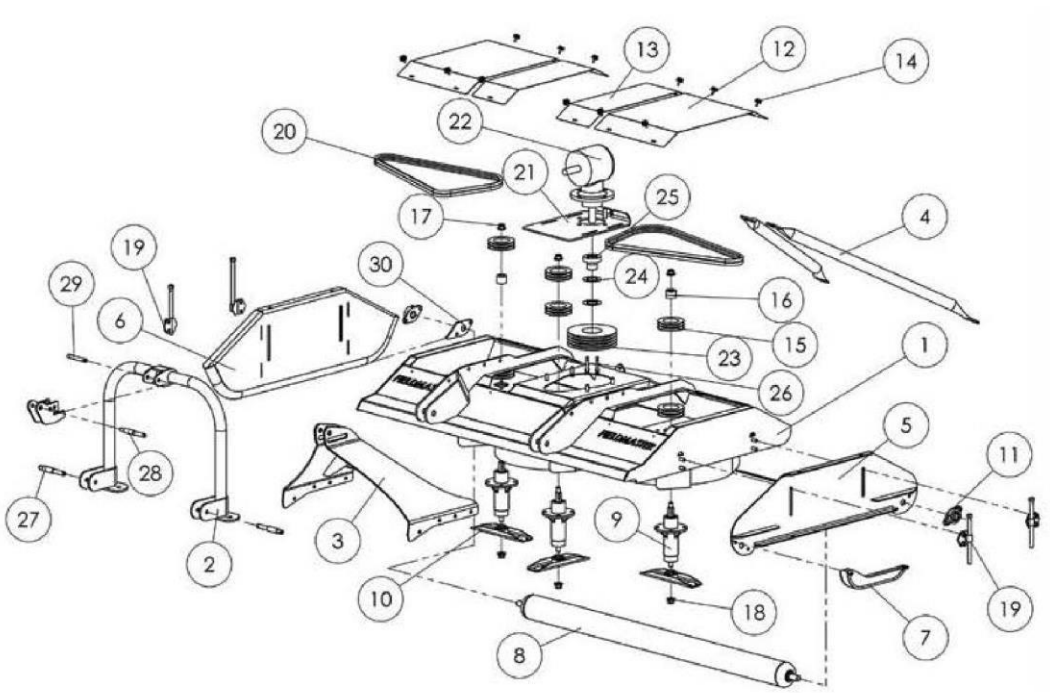
100250 Minipark Mower Spindle



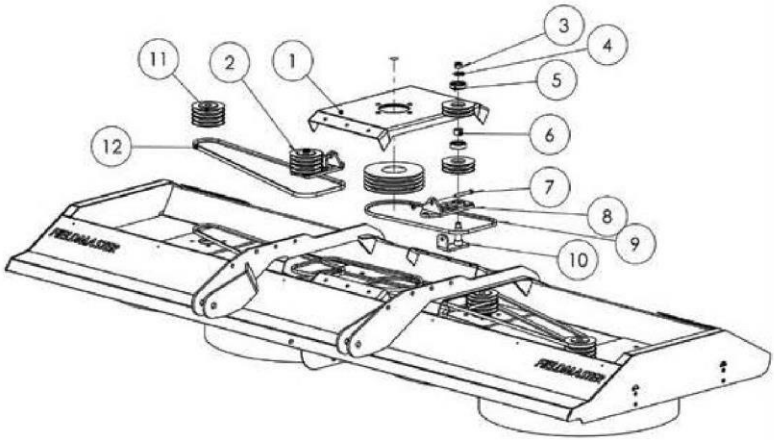
ITEM	PART NO	DESCRIPTION
	100250	Complete Assembly
1	2559	Spindle Housing
2	100252	Spindle Shaft Only
3	100251	Spindle Base Plate
		Lower Spindle Key
	370	Base Plate Locknut
4	100253	Spacer
5	2540	Bearing - Sealed
6	2551	Oil Seal - Top
N/S	5040.01	Pulley H.D. Washer
	368	Spindle/Pulley Castlenut

Toppers & Roller Mowers

OM / TM / PM 5000 Series



4 Spindle TM/PM Idler / Tensioner Pulley Detail



ITEM	PART NO	DESCRIPTION
1	180.01	Main Deck 180
	210.01	Main Deck 210
	240.01	Main Deck 240
	270.01	Main Deck 270
	300.01	Main Deck 300
2	1878.01*	"A" Frame/ Headstock (Pipe)
3	54030	"A" Frame/ Headstock MKII
4	75*	Rear Stay
5	725119	Park Mower LH Skid
	725120	Park Mower RH Skid
6	725000	Topper Skid (LH & RH)
N/S	981193	Topper Skid Wear Plates, Weld On
7	725200	Front Skid Shoe (Bolt On)
8	905008	Front or Rear Roller PM/TM180
	905001	Front or Rear Roller PM/TM210
	905004	Front or Rear Roller PM/TM240
	905007	Front or Rear Roller PM/TM270
	905003	Front or Rear Roller PM/TM300
9	100500HD	Spindle Assembly (see page 41)
	FST	Spindle Mounting bolt/nut
10	770405	Blade Carrier 240-300
	770406	Short blade carrier (180-210)
11	1199A	Roller Bearing Housing
	1199B	Roller Bearing Only
	1199*	Roller Bearing and Housing
	1199C*	Roller Bearing Cover
12- 13	501806	Belt Cover Panel 180
	502106	Belt Cover Panel 210
	502406	Belt Cover Panel 240
	502706	Belt Cover Panel 270
	503006	Belt Cover Panel 300
	17092	PM/TM Belt Cover Small Inner

ITEM	PART NO	DESCRIPTION
13	910912	Skid Adjusting Screw
14	8751611	Belt Cover Thumb Screw
15	120016	6"X 4 Groove Spindle Pulley
16	NLA	Pulley Spacer bush (use 120016)
17	367B	Pulley Retaining Nut (Conelock)
18	367B	Blade Retaining Nut (Conelock)
19	910912	TM Skid Adjusting Plate and 11"bolt
	910916	PM Skid Adjusting Plate and 9"bolt
N/S	910913	Skid Bolt Lock Tab Plate
20	2718	Vee Belt - 180 (4x)
	2728	Vee Belt - 210 (4x)
	2725	Vee Belt - 240 (4x)
	1515	Vee Belt - 270 (4x)
21	500906	Gearbox Mount Plate
N/S	981114	Gearbox / Belt Tensioner Threaded Lug
22	1.265	Main Drive Gearbox (Separate Page For Parts)
23	120023A	Main Drive Pulley, (275mm)
24		Spacer/s for Hub/Pulley
25	981109.J2	Drive Pulley Hub
26	FST	Gearbox Pulley Mounting Bolts
27	5044	Lower Link Dual Cat Pin
28	10041	Top Link Pin-GM/TM A-frame
N/S	1731*	Toplink Toggle (MKI)
29	5074	Toggle Pivot Pin
30	424005	GM/TM Roller Bracket - bolt on RH
	424006	GM/TM Roller Bracket - bolt on LH
	1199A	Roller Bearing Housing
	1199B	Roller Bearing only
N/S	5603	Lynch Pin

*Obsolete Part No longer Avalaible

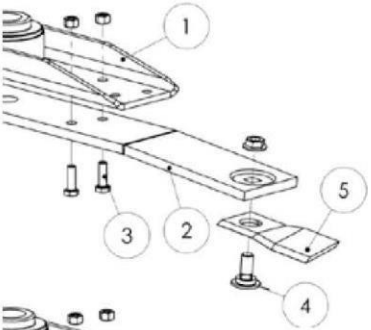
270 & 300 4 Spindle Models

ITEM	PART NO	DESCRIPTION	QTY
1	20054013	Gearbox Mount Bridge (Part of Main Deck)	1
2	120018	Tensioner Pulley 2 Grove (x2)	4
3	367B	Locknut	2
4	FST	Washer M20 Flat	2
5	2540	Tensioner Pulley Bearing	4
6	120020	Tensioner Pulley Spacer	2
N/S	2206	Internal Circlip	4

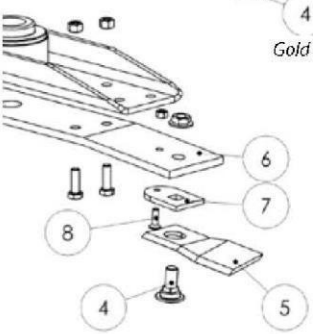
ITEM	PART NO	DESCRIPTION	QTY
7	981114	PM/TM Short Tensioner Screw Set	2
8	120019.01	Tensioner Guide Plate	2
9	2717	Vee Belt (inner spindles) Model 300	4
9/a	1519	Vee Belt (inner spindles) model 270	4
10	120019.01	PM/TM Tensioner Body	4
11	120016	Spindle Pulley 4V (yellow)	4
12	2960	Vee Belt (outer spindles) Model 300	4
12/a	2708	Vee Belt (outer spindles) Model 270	4

*Obsolete Part No longer Avalaible

Tips, Blades & Carriers (5000 Series)



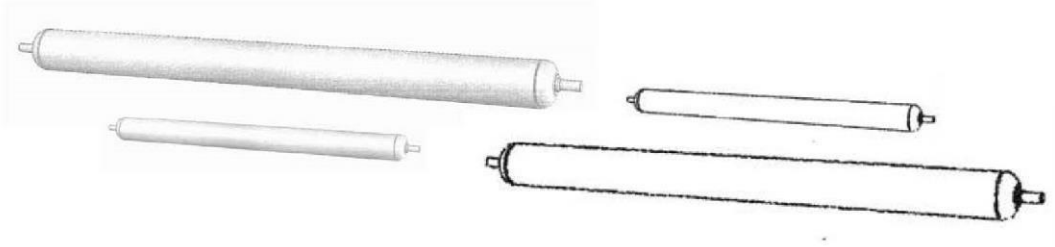
Gold Tip blades



Old style Gold Tip blades with adaptor. (Plate 7)

ITEM	PART NO	DESCRIPTION
1	770405	Blade Carrier with hub
	770406	Blade Carrier with hub (180 only)
2	156146	Blade Beam - 180 (480mm o/a)
	156157	Blade Beam - 210/WM340 (535mm o/a)
	156169	Blade Beam - 240 (640mm o/a)
	900171	Blade Beam - 270 (755mm o/a)
	121161	Blade Beam - 300 (605mm o/a)
	300	Blade Beam - M600/PMM150 Minipark mower
	310	Blade Beam - M700/PMM180 Minipark mower
3	22006	Beam Mounting Bolt (pack of 8)
4	2365	Gold Tip Flail Bolt & Nut
5	2365.01	Gold Tip Flail
6		Now use later model (item 2)
7	2364	Gold Tip Flail Adaptor Plate
8	2365.03	Countersink Mounting Bolt/Nut
N/S	1560.J2	Stepped Cutterbar - 210
N/S	900245	Stepped Cutterbar - 240
N/S	900705	Stepped Cutterbar - 270
N/S	121009	Stepped Cutterbar - 300

Rollers for Mowers & Toppers



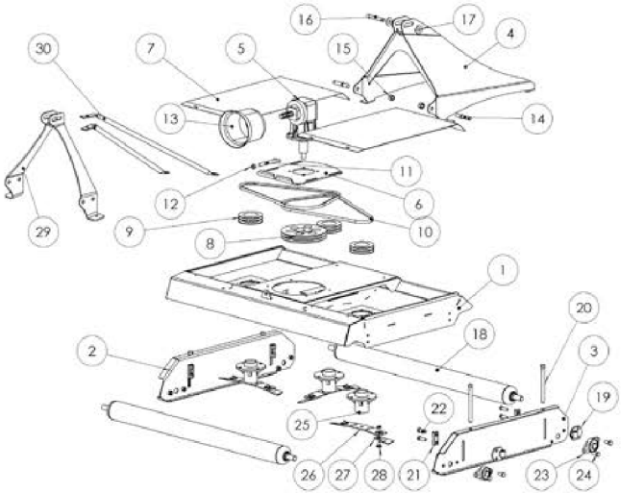
We have a huge range of rollers available ex stock to suit roller mowers, (100, 150, 200 diameters).
To order rollers, please specify:

a))D of roller tube
b) overall length (including stubs)
c) length of stubs
d) diameter of stub axles

Ordering Code example:

R	150	1880	100
	diameter mm o (a)	/a length mm s tub (b)	length mm (c)	stub diameter (d)

PMM Minipark Mower M600/M700 - M1500/MP1800



ITEM	PART NO	DESCRIPTION
1	600.01	Main Deck MP 1500 (M600)
1	700.01	Main Deck MP 1800 (M700)
2	64003	Skid RH
3	54002	Skid LH
4		Series 5000 A frame
5a	1.235	Gearbox (Base Mount) 40h p
5b	1.265	H.D Gearbox (Base Mount) 75hp
5c	2020190015	Gearbox (Side Mount) BY-PY
6	981100	Gearbox Mount
7a	981144	Outer Belt Cover (1500/600)
7b	981145	Outer Belt Cover Set (1800/700)
7c	8751611	Belt Cover Thumb Screw/ Bolt
8	33.001	Gearbox Pulley 2V
8b	981110	Gearbox Pulley hub (HD Model)
9a	2773	Spindle Pulley 2V
9b	2692	Spindle/ Pulley Key
10	2729	Vee Belt (600/150)
10	2730	Vee Belt (700/180)
11	981114	Belt Tensioner Bolt
13	21901	P.T.O. Cone
14	5042	Lower Link Pin

ITEM	PART NO	DESCRIPTION
16	5040	Top Link Pin
17	FST	H.D. Pin Washer
18a	905005MS	Front or Rear Roller MP1500 (M600)
18b	905008MS	Front or Rear Roller MP1800 (M700)
19		Screw Housing (use 910916 set)
20	910916	Adjuster Screw and housing set
23a	1199B	Roller Bearing Only
23b	1199A	Roller Bearing Housing
23c	1199C*	Roller Bearing Cover
24	FST	Roller Bearing bolt/nut
25	100250	Spindle Assembly - see page 19
26a	300	Flail tip Carrier 1500 /M600
26b	310	Flail tip Carrier 1800 /M700
26c	2398	Cutterbar - 500mm M600/MP1500
26d	2398.05	Cutterbar - 590mm M700/MP1800
26e	22006	Cutterbar Mounting Bolts (pack 8)
27	2365.01	Flail tip
28	2365	Flail bolt & nut
29a	64011	A-Frame
29b	1878.01*	H.D.A. Frame (Pipe)
30	691200*	Rear Stays

*Obsolete Part No longer Avalaible

NOTES

NOTES

WARRANTY

The manufacturer's obligation under this warranty is limited to correcting without charge at its factory or by one of its authorised Dealers, with the manufacturer's approval, any parts thereof, within 12 months from date of purchase by the original user, and which upon examination shall disclose to the manufacturer's satisfaction to have been originally defective.

Correction of such defect by repair to, or supplying of replacements of defective parts, shall constitute fulfillment of all obligations to the original user: Manufacturer shall not be liable for loss, damage, or expense directly or indirectly from the use of its product or from any other cause. Defective parts must be returned freight paid each way by the purchaser to the manufacturer.

This warranty shall not apply to any parts which must be replaced because of normal wear, or which have been subject to misuse, negligence or accident or which have been repaired or altered outside of the manufacturer's factory, unless authorised by the manufacture. This warranty should not be construed as a free service period during the warranty period.

FIELDMASTER®

• PREMIUM FARM EQUIPMENT •

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