

Landmaster L88 SUPER

Operating Instructions

LANDMASTER ROTARY CULTIVATOR

IMPORTANT! STUDY THIS BOOK AND THE ENGINE MAKERS' LITERATURE AND ATTEND TO PRELIMINARY SERVICING OF THE ENGINE AND MACHINE BEFORE USING FOR THE FIRST TIME.

INTRODUCTION

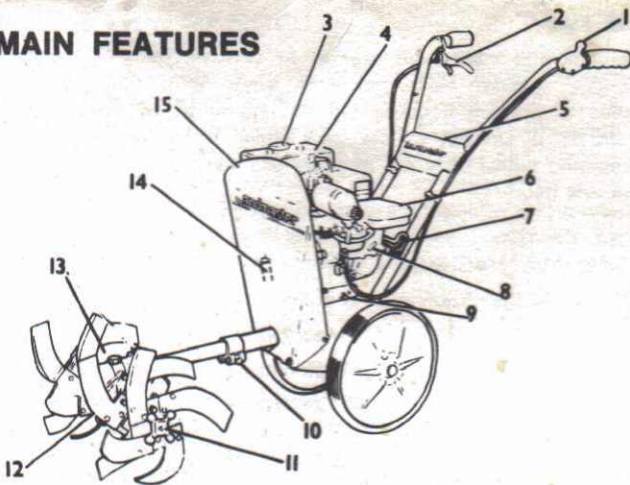
This Landmaster machine has been designed to combine the best features of the long-tried and proved smaller domestic range of Landmaster machines.

This advanced machine is powered by a tough reliable engine, carefully selected to give satisfactory performance for the wide range of tasks of which the machine is capable, with economy and long life characteristics for the owner who observes a few simple rules of operation and care.

This is the ideal machine for those with moderate sized gardens who seek to take the heavy physical work out of Flower, Vegetable and Grass cultivation routines.

No tools are needed to adapt the machine—attachments are available for digging, hoeing, weeding, ridging, lawn conditioning, grass mowing and hedge trimming—all these can be fitted by the novice in minutes who will then possess the Key to a whole series of different power gardening techniques.

MAIN FEATURES



Key:

- 1 Throttle Lever
- 2 Clutch Lever
- 3 Fuel Tank
- 4 Shorting strip and spark plug
- 5 Tool head box spanner behind crossbar
- 6 Air Cleaner
- 7 Recoil Starter
- 8 Choke Lever
- 9 Sump Drain Plug
- 10 Tool head clamp
- 11 Tool head clamp nut
- 12 Tool head oil lever plug
- 13 Tool head oil filler plug
- 14 Engine oil filler/level plug
- 15 Stone Guard

The new owner should familiarise himself with all the main engine features and maintenance points. These, together with other useful information will be found in the engine makers' literature.

The power unit is a 3 h.p. 4-stroke engine run on ordinary 'commercial' grade petrol, and started by means of a conventional 'recoil' type starter of proved design.

The fuel tank has a 5 pint (2.840 litre) capacity.

The engine speed control, or throttle lever, is conveniently located on the handlebars and has clearly marked settings. A choke lever is positioned below the engine air filter.

The clutch mechanism conveys drive from the engine pulley to the drive shaft pulley. When the clutch lever is in the down (disengaged) position, the engine is 'free-running'. When the clutch lever is in the raised (engaged) position, power is transmitted to the fitted attachment, i.e., rotor blades, spin weeder, etc. The clutch lever incorporates a ratchet trigger to hold the lever in the drive position.

Engine lubrication is from an oil-ump which is filled through a combined dipstick/filler plug. Oil is drained through a plug in the engine base.

A simple removable drive shaft transmits drive from the engine to the attached implement. Implements are mounted in the engine drive tube and retained by the toolhead clamp bolt. Tighten using the box spanner located behind the handlebar crossbar.

This Landmaster model complies fully with the U.K. Government's current Agricultural Safety Regulations.



SLASHER BLADE ASSEMBLIES

Used for general tilling of average soils and deeper digging duties.



HOE BLADE ASSEMBLIES

Used for weed clearing and general light-duty soil aeration and shallow digging.



PICK-TINE ASSEMBLIES

Used for the initial breaking/hardground, heavy soils and virgin land.



SPIN WEEDER

Used for weeding and soil aeration close to roots—in flower borders and under bushes.

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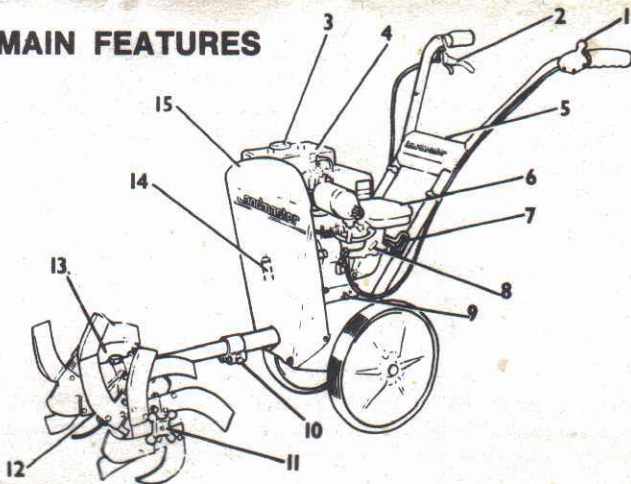
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OPERATING TECHNIQUES

Width of cultivation will be determined by the density and moisture content of the soil and the particular task required. Generally, narrow rotor widths and slasher blades are best for all deep rotary digging, and work in extremes of wet and heavy ground. Wide rotors are more suitable for shallow digging and general weed clearance work.

Pick Tine blades are recommended for the initial breaking-up of virgin ground and in hard, dry conditions.

Hoeing and seed bed preparation are carried out with the square-footed hoe blades. For inter-row hoeing between narrowly spaced crops, special 7" (18 cm) wide inward-facing rotor blades are used—see Spares List. To prevent damage to standing crops and to check side-scatter of soil, **rotor hoods and side guards are available** in various widths—your dealer will gladly supply details on request.

OPERATION

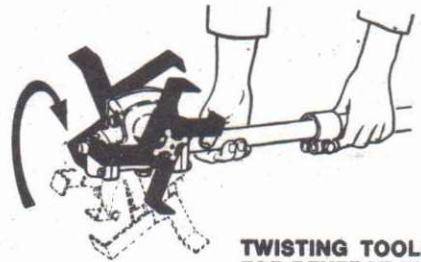
The throttle setting to suit the particular task will be found from experience, but it should be adjusted so that the earth is not thrown or scattered excessively. A slight upward lift on the handlebars will encourage the blades to dig themselves into the earth. At about 3" depth, swing the rotor from side to side digging a 'swath' of ground as the machine moves forward. There

is no need to push the machine—the rotating blades should provide sufficient forward traction.

There is ample power to do all normal work in one pass but in soil conditions where this is not possible, make repeated passes at progressively deeper cuts to reach the required depth of cultivation. On steep slopes, always work in uphill or downhill directions to prevent overturning.



Reverse digging—to erase foot and wheel marks on previously cultivated ground and to produce a smooth unmarred seed bed surface, 'reverse' digging should be practised. The tool-head, complete with blades, is simply turned upside down and the ground is re-dug at a shallow depth, with the operator walking backwards.



TWISTING TOOLHEAD FOR REVERSE DIGGING

Spin Weeding—is practised in a similar way as described above—with the tool being swung from side to side as the operator walks backwards. It is an ideal tool for working close around plant roots, under low bushes and in close planted herbaceous borders.

WEED ERADICATION

Deep rooted perennial weeds such as Twitch, Couch, Nettles and Convolvulus, etc., can be checked and eventually killed by repeated Rotary Cultivating affected ground areas. The blades will chop the weed root which will die back each time it is cut, so that root-stem pieces become progressively smaller until re-growth ceases. This repetitive working is especially effective in hot, dry conditions, when the eradication process is speeded up by the action of the sun drying out and killing root-pieces lying on or near the soil surface.

Annual weeds should be 'turned-in' before the seeds are allowed to ripen. The blades generally leave weed seeds close to the surface where they germinate quickly. Thus, within a few days after cultivating, a secondary flush of light surface growth will appear and this is then eradicated by further rotary cultivation passes to incorporate the growth as a green manure into the previously tilled soil—thereby adding nitrogen and humus.

An excessive top growth of heavy weed, tares, bramble, etc., is sometimes best treated by controlled surface burning. This will produce potash nutriment for subsequent incorporation in the ground.

ANCILLARY RANGE

It will be appreciated that the true work-potential of your basic machine can only be fully exploited if as many attachments as possible are put to work for you. It is not being used to its maximum advantage to stand idle between, say, digging seasons, while all other gardening tasks continue to be done manually. The following attachments are all quickly and easily fitted to your machine, and your Landmaster Dealer will be pleased to describe their capabilities and features more fully

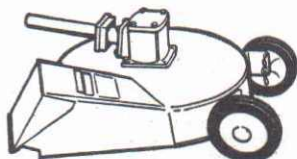
LAWN RAKE

Lawn scarifying during the growing season prevents the accumulation of excess dead grass fibre, and in conjunction with regular mowing helps to eliminate weeds and moss, stimulates fine grass growth and generally assists surface soil and root aeration.



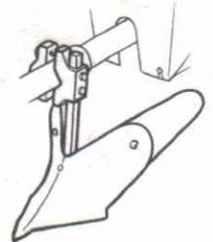
16" ROTARY MOWER

This implement incorporates its own gearbox. Height of cut adjustment is by front wheel settings. A safety stone guard for the grass outlet chute is supplied fitted and a large grass collection bag is available as an optional extra.



RIDGER and SINGLE WHEEL CONVERSION

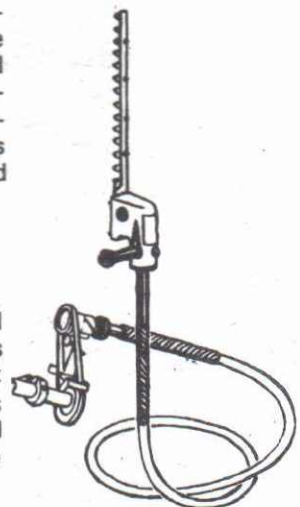
The Ridger is used on previously cultivated ground, this is a very useful tool for all ridging, trenching, furrowing, draining and earthing-up operations. It is mounted behind the tool head using one or two pairs of blades, in very light soil hoe blades give more forward propulsion specially when only one pair of blades is used.



It is necessary to convert the machine by mounting one of the machine wheels immediately below the engine, an additional short axle and 2 spacers is required for this conversion. (See Page 4). Using the machine fitted with one wheel allows working down very narrow rows and the splitting back of a ridge.

FLEXIBLE DRIVE

A Power-Take-off (P.T.O.) Speed increaser and flexible drive shaft is available as proprietary equipment by a specialist manufacturer. Various tools such as hedge trimmer and chain saw can then be used with the machine.



MAINTENANCE

LUBRICANTS.

Engine SAE30 - See Engine manufacturers instructions
Gearbox SAE90

We recommend that all major servicing be carried out by your Landmaster Service Agent.

ENGINE

The following maintenance information includes only the briefest engine data, and **it is essential that the engine makers' literature be studied** for complete details on engine adjustments, maintenance and care and attention.

Important: On a new engine, drain and renew the engine oil after the first 2 hours of operation—thereafter drain and renew every 20 hours.

Always drain the engine sump when the oil is warm—i.e., immediately after use. Save this old oil for use as an anti-rust coating of tools, etc.

Keep the engine clean! Always clear the cylinder fins and blower housing of soil and trash to prevent overheating. Clean the vicinity of oil filler and drain plugs before removing.

Spark Plug: Remove and inspect monthly. Wash thoroughly in petrol and clean off any carbon deposits from the electrode with a wire brush. (Preferably sand-blast at your local garage.) Adjust electrode gap to 0.030" (0.8mm). Do not over-tighten when re-fitting.

Air Filter: Clean the element monthly—more frequently in dry dusty operating conditions. Detach the cover and withdraw the foam element. Wash the element in clean petrol or paraffin/kerosene and dry thoroughly. Re-oil it with three tablespoons of engine oil and squeeze to distribute throughout. Refit and replace the cover. **Never run the engine without an air filter, with a badly fitting air filter or with a badly dirt ingrained element.**

	EVERY 5 HOURS OR WEEKLY	EVERY 20 HOURS OR MONTHLY
THE MACHINE	Check oil level in sump. Spanner-check nuts and bolts. Clean the engine. If in storage, crank the engine a few times.	Drain and refill engine sump. Oil throttle and clutch cables, toolhead clamp bolt, wheel axles, front tube assembly bearings, jockey pulley and pivot bearings. Clean air filter element. Check spark plug gap.
THE TOOLHEAD	Check Woodruff Keys. Spanner-check nuts and bolts.	Top-up the oil level.
ATTACHMENTS	Re-oil wheel hubs. Spanner-check nuts and bolts.	Top-up attachment gearboxes. Examine all blades and knife edges.

Vee Belt: As the belt loses its "newness" it may stretch slightly and cause undue slipping when working on load. Correct belt tension can be obtained by adjustment of the screwed barrel on the clutch cable, loosen the locknut to turn, then re-tighten the locknut. Additional adjustment can be made on the cable stop at the bottom of the clutch inner cable. When correctly adjusted the toolhead should stop turning just before the clutch lever is in its lowest position when released.

THE MACHINE

Clean all surfaces after use with a soft brush and wipe over with an oily rag.

Once a month, lightly oil the throttle lever and clutch cable ends and add a few drops to the wheel bushes and the toolhead clamp bolt. Remove the 2BA screw A2424 located at the rear of the front tube assembly oil lightly with 3 or 4 drops of oil. It is important to replace the screw. Oil the felt seals each side of the jockey pulley and the jockey pulley pivot arm bearing A3266. Remove any implement or attachment before storage leaving the toolhead clamp bolt semi-tightened. Store in a dry place.

ATTACHMENTS

Toolhead: Check the oil level monthly. Hold horizontal and remove top filler plug and front level plug. Top up until oil overflows through front plug hole.

Periodically examine the Woodruff Keys in the driving blocks each side of the toolhead. These Keys are intended to 'shear' in overload conditions and they should be renewed (a spare key is included in the Tool Kit), if found broken or distorted.

General: Check for excessive wear on blades and earth moving parts. Replace if excessively worn.

WINTER STORAGE

Drain the engine sump, flush out with flushing oil and refill with clean engine oil.

Drain all fuel from fuel tank, and run the engine, if possible, until it stops from lack of fuel. Absorb remaining fuel in the tank and carburettor with a lint-free rag. Remove spark plug, pour a little engine oil into plug hole and crank the engine to distribute the oil over the cylinder walls. Replace spark plug. Remove all dirt and dust and wipe over all surfaces with an oily rag. Drain and refill toolhead and attachment gearboxes. Resharpener any damaged blades and order replacement parts if necessary. Lubricate all moving parts. Cover the machine and store in a dry place. At weekly intervals, turn the engine over slowly a few times to lubricate the cylinder and piston.

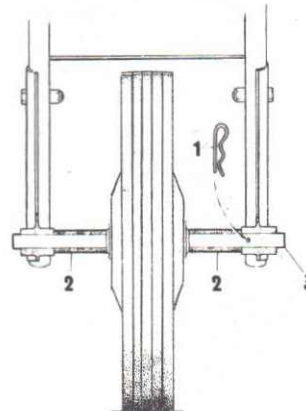
NOTE: It is good practice to have a regular annual examination or overhaul carried out by your local Landmaster Service Agent. This is by way of an 'insurance' to save both time and inconvenience from mechanical trouble, and is best done during the winter months ready for the forthcoming growing season.

SINGLE WHEEL CONVERSION.

Parts

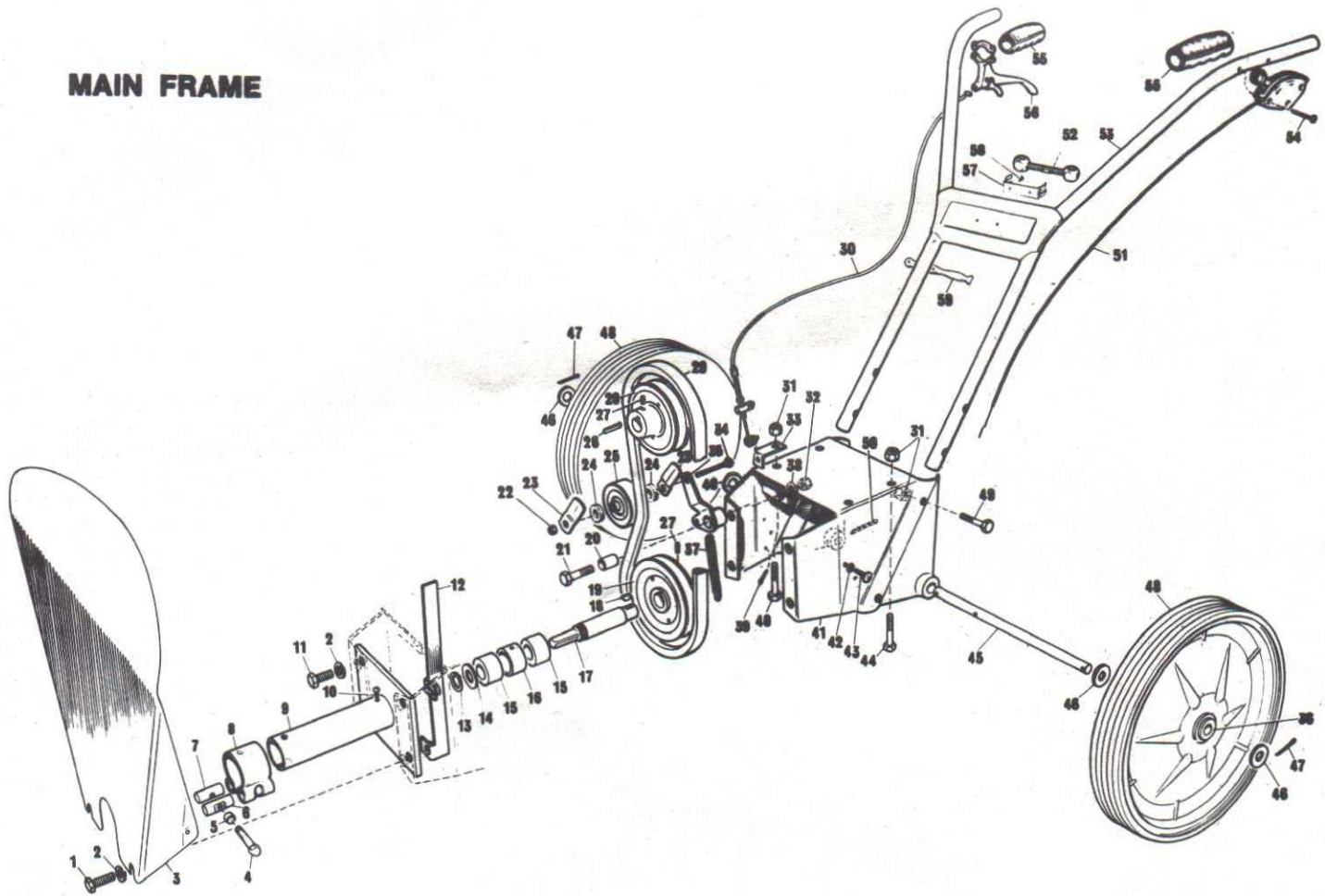
1. F1046 Spring Clip 2 off
2. F4038 Spacer 2 off
3. F4037 Axle 1 off

Remove 2 split pins from the axle item 39 and 47 (see opposite page). Remove one wheel and 2 washers item 46, withdraw the axle and other wheel complete. Fit the short axle item 3 through the main frame with a single wheel in the centre between the 2 spacers item 2 as shown in the illustration. Ensure that the hole in the axle is on the same side as the hole in the main frame axle housing, use the spring clip item 1 to secure the axle. A spare spring clip is also supplied, when replacing the 2 wheels use the 2 spring clips in place of the split pins previously removed.



ASSEMBLY WHEN ONE WHEEL USED

MAIN FRAME

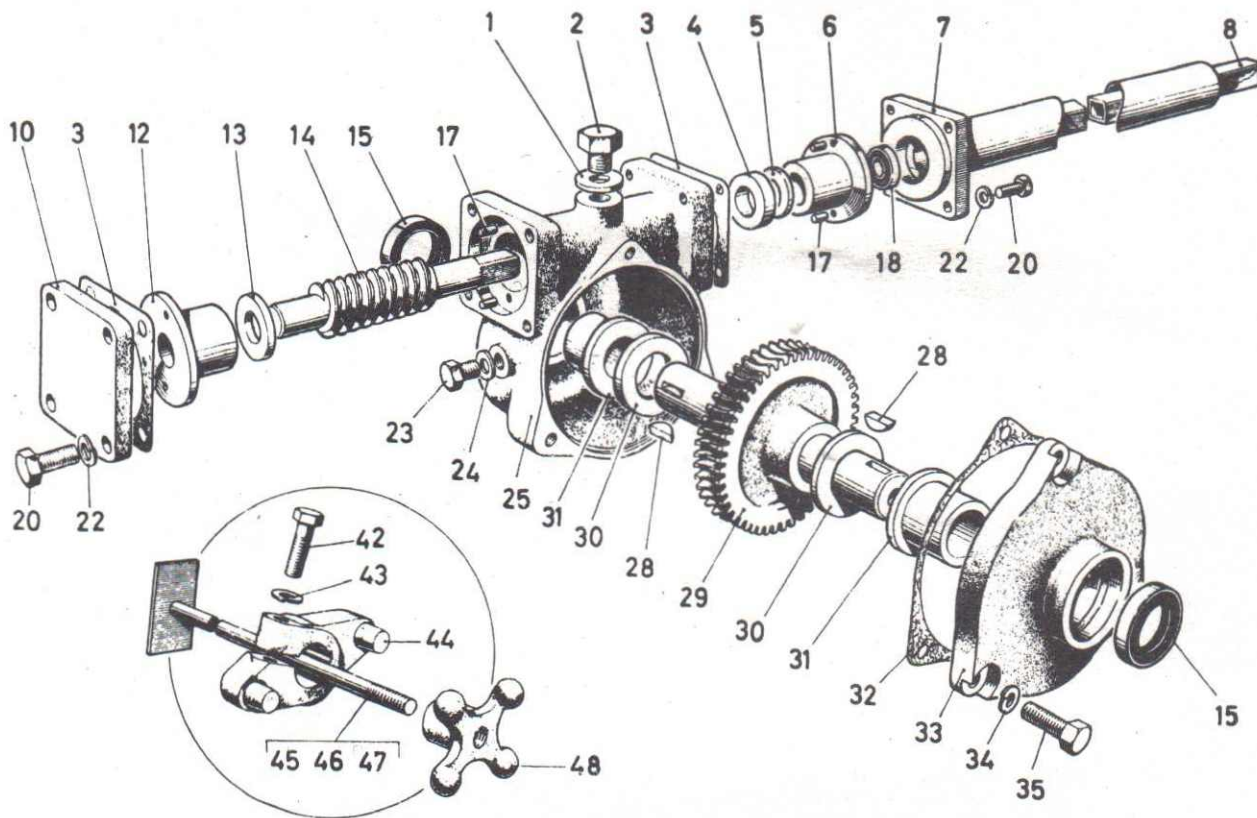


SPARE PARTS LIST

Illus. No.	Part No.	Description	Qty.	Illus. No.	Part No.	Description	Qty.
1	A.1732	Setscrew 3/8" UNF x 1" Long Hex. Head.	2	33.	F.4016	Cable Bracket	1
2.	A.9	Spring washer 3/8" SC. F.S. ...	4	34.	A.2840	Bolt 1/4" UNF x 1 5/8" long hex head	1
3.	F.4017	Stone guard	1	35.	F.4007	Jockey Pulley arm	1
4.	A.2130	Bolt 3/8" UNF x 2" long hex. head.	1	36.	A.3333	Wheel Bush	4
5.	F.4033	Spacer	1	37.	V.1057	Spring	1
6.	F.1095	Pin	1	38.	A.170	Plain washer 3/8" ID x 3/4" O/D x 15 s.w.g.	1
7.	F.4029	Pin tapped 3/8" UNF	1	39.	A.2156	Split pin 1/8" dia x 1/2" long	1
8.	F.1094	Clamp	1	40.	A.2175	Bolt 5/16" UNF x 1 1/4" long hex. head	1
9.	F.4012	Front tube assembly	1	41.	F.4001	Main Frame Assembly	1
10.	A.2424	Setscrew 2 BA x 5/16" long Round head setscrew	1	42.	A.3321	Washer 1/2" external tooth shakeproof	2
11.	A.1563	Setscrew 3/8" UNF x 3/4" long hex. head	2	43.	A.1248	Setscrew 2BA x 1/2" long mushroom head	2
12.	F.4022	Belt Former	1	44.	A.1905	Bolt 5/16" UNF x 1 1/2" long hex. head	3
13.	A.2015	Seager Circlip 3/4" external ...	1	45.	F.4025	Wheel axle	1
14.	F.4041	Plain washer 3/4" i/D x 1 3/16" O.D. 16 s.w.g.	1	46.	A.2792	Plain washer 1/2" I/D x 1" O/D x 16 s.w.g.	4
15.	A.3318	Oilite bearing GH 5 x 3/4" long	2	47.	A.1866	Split pin 1/8" x 1" long	2
16.	F.4026	Spacer 1 1/4" O/D x 14 s.w.g. ...	1	48.	A.3168	Wheel Hughes LB 12 RW - nylon bushed	2
17.	F.4015	Drive shaft	1	49.	A.1905	Bolt 5/16" UNF x 1 1/2" long hex. head	4
18.	A.1375	Woodruff Key No. 505	1	50.	A.1724	Split pin 1/8" x 1 1/2" long ...	1
19.	F.4010	Pulley	1	51.	A.3225	Throttle cable assembly	1
20.	A.3266	Oilite bearing type FCT 57 x 7/8" long	1	52.	A.3240	Universal spanner.	1
21.	A.2021	Bolt 3/8" UNF x 1 1/2" long hex. head	1	53.	F.4003	Handlebar assembly	1
22.	B.1582	Nut 1/2" UNF Nyloc 'T' type	1	54.	A.3265	Screw No. 10 x 1" long slotted pan head self tapping.	2
23.	G.5140	Jockey pulley side plate	2	55.	A.3303	Handgrips 7/8" dia.	2
24.	ML.1546	Felt washer	2	56.	A.1918	Clutch lever 1" trigger type	1
25.	ML.1020	Jockey pulley	1	57.	F.4011	Clip for box spanner	1
26.	A.1599	Key 3/16" x 3/16" x 1" long ...	1	58.	A.2218	Pop rivet	2
27.	A.2147	Socket head grub screw 5/16" x 5/16" long UNC	2	59.	A.2422	Cable clip	2
28.	V.1067	Engine pulley	1	(Not illus.)	A.2157	Engine - Briggs & Stratton Model No.80302 3 h.p.	1
29.	A.2448	Fenner Vee Belt	1	(Not illus.)	F.4043	Belt stop	1
30.	F.4034	Clutch cable assembly	1				
31.	B.1583	Nut 5/16" UNF Nyloc 'T' type	8				
32.	B.1584	Nut 3/8" Nyloc 'T' type	1				

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TOOL HEAD ASSEMBLY

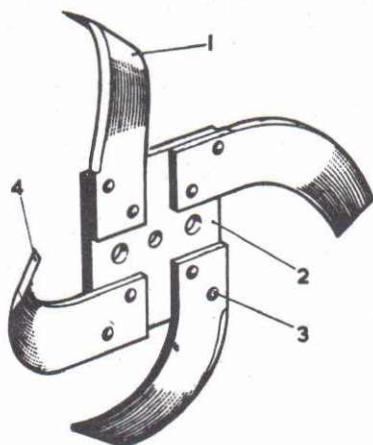


SPARE PARTS LIST

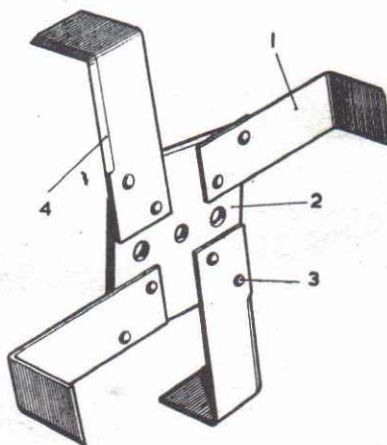
Illus. No.	Part No.	Description	Qty.	Illus. No.	Part No.	Description	Qty.
1	A253	1/4" Fibre Washer	1	34	A49	1/4" S.C.F.S. Spring Washer	3
3	ED27	Gearbox Gasket	2	35	A1469	1/4" B.S.W. x 3/8" Bolt	3
3	27	Gearbox Gasket	2			TOOL CLAMPING ASSEMBLY - INSET	
4	F1057	Spacer Washer	1	42	A299	5/8" B.S.F. x 1 1/4" Bolt	2
5	A2163	Glacier D.U.08 Thrust Washer	1	43	A100	1/4" S.C.F.S. Spring Washer	2
6	F1056	Worm Bearing (Rear)	1	44	GM31	Driving Block	2
7	ED350	Gearbox Mounting Tube Sub-Assembly	1	†45	ED53	Tool Clamp Spindle (7" & 12" wide rotors)	1
8	F4023	Drive Shaft	1	46	ED193	Tool Clamp Spindle (18" wide rotors)	1
10	ED481	End Plate	1	47	ED195	Tool Clamp Spindle (24" wide rotors)	1
12	ED10	Worm Bearing (Front)	1	*48	ED207	Tool Clamp Nut	1
13	ED87	Worm Washer	1			* On 7" wide rotor with inward facing blades, Item No. 48 is replaced by a Nyloc Nut (Part No. B59).	
14	ED351	Worm	1			† Item No. 45 (Spindle) is used with the Spin Weeder and Lawn Rake.	
15	A1361	Oil-Seal 13P/13708725	2			Note: When fitting a rotor hood item no. 10 is replaced by a fixing bracket supplied with the hood.	
17	A1367	Dowel 1/8" dia. x 3/4" long	4				
18	A1901	Oil-Seal W.13106225 R.4	1				
20	A2061	1/4" B.S.W. x 3/4" Set Screw	8				
22	A100	1/4" S.C.F.S. Spring Washer	8				
23	A1368	5/8" B.S.W. x 3/4" Set Screw	1				
24	A1369	1/4" Fibre Washer	1				
25	ED11	Gearbox	1				
28	A1375	Woodruff Key No. 505	2				
29	ED88	Worm Shaft Assembly	1				
30	ED89	Worm Wheel Washer	2				
31	ED15	Bush	2				
32	ED28	Cover Gasket	1				
33	ED12	Gearbox Cover	1				
				(Not illus.)	F1048	Assembly of gearbox	1

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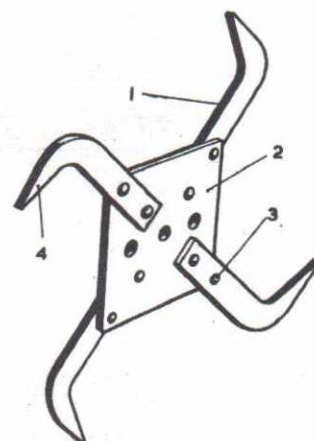
CULTIVATING TOOLS



SLASHER BLADE ASSEMBLY



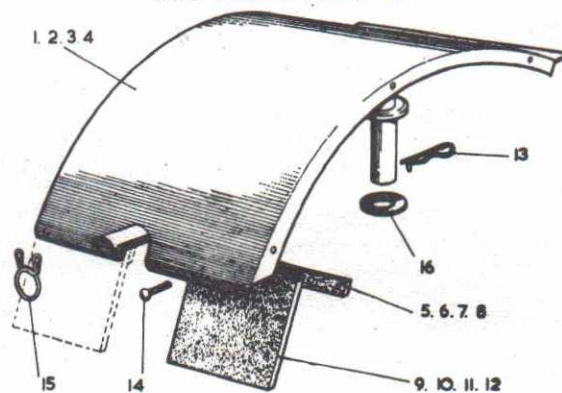
HOE BLADE ASSEMBLY



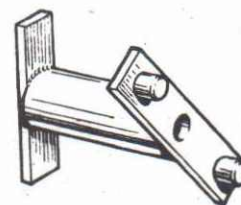
PICK TINE ASSEMBLY



SPIN WEEDER



ROTOR HOOD ASSEMBLY



BLADE SPACER ASSEMBLY

Note:

Each hood is supplied with a special bracket GM37 this replaces the standard gearbox end plate ED481.

SPARE PARTS LIST

Illus. No.	Part No.	Description	Qty.	Illus. No.	Part No.	Description	Qty.
SLASHER BLADE ASSEMBLY							
1	L1081	Tine, Right Hand	2	—	ED281	BLADE SPACER ASSEMBLY	
2	GM30	Tool Plate	1			Blade Spacer Assembly ...	2 or 4
3	A1482	$\frac{1}{2}$ " x $\frac{1}{8}$ " long Snap-Head Rivet	8	ROTOR HOOD ASSEMBLY			
4	L1080	Tine, Left Hand	2	1	ED289	Rotor Hood Assembly, 7" ...	1
—	L1082	Complete Slasher Blade Assembly		2	CUB57	Rotor Hood Assembly, 12" ...	1
		Left Hand		3	ED291	Rotor Hood Assembly, 18" ...	1
—	L1083	Complete Slasher Blade Assembly		4	ED296	Rotor Hood Assembly, 24" ...	1
		Right Hand		5	ED188	Clamping Plate for 7" Hood ...	2
HOE BLADE ASSEMBLY							
1	ED3	Hoe Blade, Right Hand	2	6	ED100	Clamping Plate for 12" Hood ..	2
2	GM30	Tool Plate	1	7	ED184	Clamping Plate for 18" Hood ..	2
3	A1376	$\frac{1}{2}$ " x $\frac{1}{2}$ " Snap-Head Rivet	8	8	ED180	Clamping Plate for 24" Hood ..	2
4	ED4	Hoe Blade, Left Hand	2	9	ED187	Rear Flap for 7" Hood	2
—	ED256	Complete Hoe Blade Assembly		10	ED99	Rear Flap for 12" Hood	2
		Left Hand		11	ED183	Rear Flap for 18" Hood	2
—	ED257	Complete Hoe Blade Assembly		12	ED179	Rear Flap for 24" Hood	2
		Right Hand		13	ED222	Spring Pin	1
PICK TINE ASSEMBLY							
1	ED111	Tine, Right Hand	2	14	A1055	Bifurcated Rivet, Type 6	—
2	GM30	Tool Plate	1	15	34/76	Rotor Hood Spring Clip	1
3	A1376	$\frac{1}{2}$ " x $\frac{1}{2}$ " long Snap-Head Rivet	8	16	34/81	Rubber Washer	1
4	ED110	Tine, Left Hand	2	SPIN WEEDER			
—	ED258	Complete Pick Tine Assembly		—	CUB78	Complete Spin Weeder	—

WHEN ORDERING SPARE PARTS, ALWAYS QUOTE MACHINE SERIAL NUMBER, SPARE PART NUMBER, FULL DESCRIPTION AND QUANTITY

FAULT FINDING TABLE

As previously explained, detailed engine data will be found in the Engine Makers' literature but the most common general difficulties can be checked against the following points.

We strongly advise that all major servicing be carried out by your local Landmaster Service Agent. If in doubt consult your supplier.

FAULT	LOOK FOR	TO REMEDY
<p>ENGINE WILL NOT START OR RUNS ERRATICALLY</p>	<p>Sump oil level too low. Plug lead damaged and shorting to earth. Dirty Spark Plug electrodes. Dirty Magneto Points. Fuel Cock 'Off'. Fuel Tank empty. Old petrol in tank. Faulty Ignition Timing. Blocked Fuel Pipe. Dirt in Carburettor causing blockage. Damaged Cylinder Gasket. Dirty Air Filter. Blocked Exhaust Silencer. Water in fuel. Carburettor and Cylinder Bolts loose. Sticking Throttle Linkage.</p>	<p>Top-up to correct level. Dry any moisture, re-make ends or renew. Clean, adjust gap. Clean, adjust gap—renew if necessary. Switch 'ON'. Refill. Drain, refill with fresh petrol. Refer to Landmaster Service Agent. Remove and clean. Dismantle, flush thoroughly, blow clean jet and needle holes. Renew. Also clean carbon deposits from head and piston. Clean and re-lubricate element. Clear any blockage—remove and tap out dirt. Drain and refill. Check and tighten. Check or renew throttle cable, lever and linkage.</p>
<p>NO DRIVE TO TOOLS</p>	<p>Sheared Woodruff Keys in Toolhead. Damaged Driving Blocks. Loose Tool Clamp Bolt. Seized Toolhead. Drive Shaft not engaging engine Crankshaft and/or Toolhead. Damaged/worn Drive Shaft. Loose Vee belt pulleys. Vee belt off pulley. Vee belt stretched.</p>	<p>Remove Driving Blocks and renew Keys. Renew. Tighten Hand Nut. See your Landmaster Service Agent. Refit correctly. Check that correct one is used. Renew. Refit—tighten grub screw. Refit. Adjust clutch cable-barrel.</p>
<p>BROKEN STARTER CORD</p>		<p>Remove housing, push cord back through hole, knot the end and re-wind cord on to spring pulley. Refit cover.</p>

Landmaster Limited

Factories, Home and Export Sales, Spares and Service

STERTE ROAD POOLE DORSET BH15 2AF ENGLAND

Telephone Poole 5141

Telex 41224



A member of the Firth Cleveland Group

