INSTRUCTIONS

MIST TERME HAUTE, IND.

For Using Your GRAVELY Parts And Price List

INTRODUCTION

The aim in making up this Parts and Price List Book has been to present simply and as clearly as possible parts of the GRAVELY Tractor and each attachment in the order that they are assembled or disassembled. In most cases each photograph consists of an entire assembly; in other cases however, to avoid jamming together and causing confusion in identifying and ordering parts, the complete assembly may appear in several photographs. For example: The tractor itself-the motor, the chassis, and wheel assembly, all appear in different photographs. This has been done for your convenience in clearly selecting the part or parts that you need.

At the top of each photograph there appears the plate identification, a letter of the alphabet. Also, the name of the plate is given. For example: The first photograph is Plate A--Motor & Pin Plate Assembly. Directly beneath the photograph, and in some cases beside, is the Parts and Price List. Where two or more photographs appear on the same page, the plate letter and identification will head the Parts and Price List.

Each part appearing in a photograph has been given a number, referred to as the PHOTO NO. in the Parts and Price List. As nearly as possible, the parts are shown and numbered in the order of their assembly. Ordinarily the number appears directly beneath the part, but where ever it does not, it will be found beside or at the top enclosed in a circle with an arrow pointing to the part it designates. In other cases a number may appear with a broken circle partially enclosing a part. Some photographs may have two or more parts designated by the same number—bolts, muts, washers, etc.—in this case they are the same, used in different places of the assembly. In some photographs, space did not permit numbering of the duplicate parts; however, this is rare and if you should discover the part you need has no number, there will appear on the same plate an identical part with a part number. That number should be used in identifying your part in the Parts and Frice List.

HOW TO FIND A PART

Here is the procedure for you to follow in identifying and ordering a replacement part. (As an example we are using the Muffler--this will aid you in tracing the part or parts that you need.):

FIRST Select the correct photograph, which in this case is the first one, Plate A, Motor & Pin Plate Assembly. SECOND Find the part that you need. In our example it is the Muffler.

THIRD Determine the correct photo number of your part. Directly beneath the Muffler is the number 24.

FOURTH Now we choose the correct Parts and Price List. (Because Plate A is the only photograph on the page we know that the Parts and Price List appearing directly beneath is the correct one.)

FIFTH In the first column marked PHOTO NO., find number 24.

SIXTH To the right of the first column is the column marked PART NO., PHOTO NO. 24 is part number L 816.

SEVENTH The third column marked DESCRIP-TION serves as a check for you in identifying the part that you need. You see there the word Muffler, the part that we resided.

EIGHT The fourth and last column markeds PRICE gives the price of your part. In the case of the Muffler, the price gives is \$3.85.

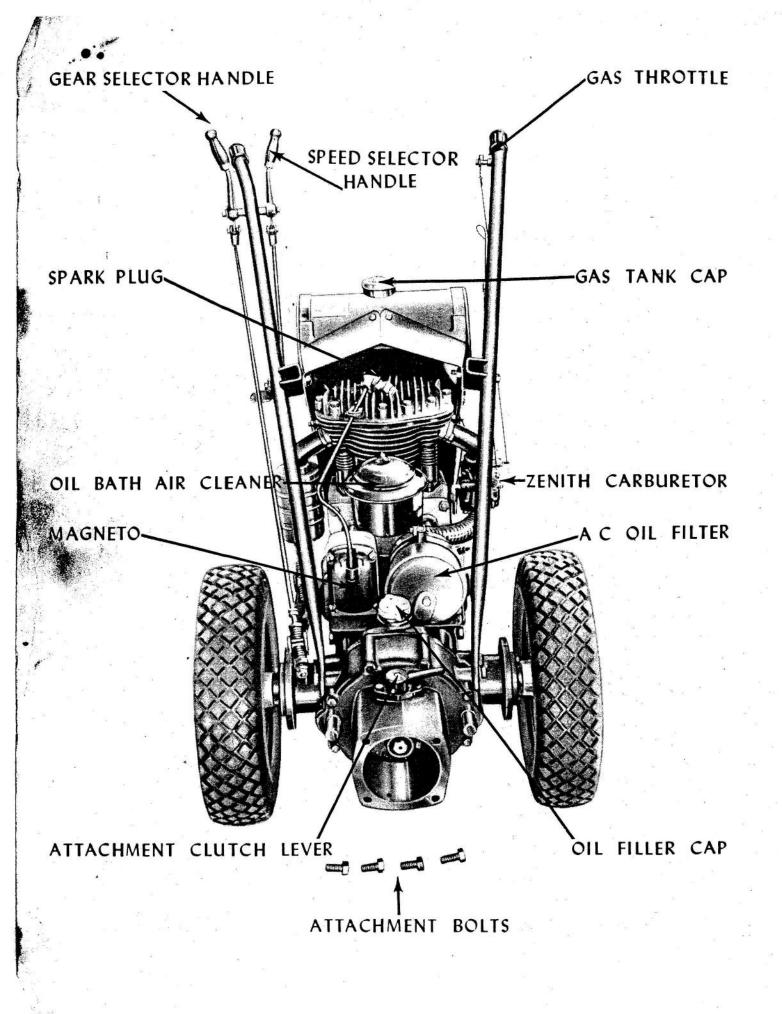
HOW TO ORDER A PART

All prices are F. O. B. Dunbar, West Virginia. If your part is slightly more than what appears in the price column of the Parts and Price List it is because shipping charges have been added.

initials NS appearing in the PHOTO NO. column stanf for NOT SHOWN. It was not possible to photograph some parts, however those parts are listed. If you cannot find your part on the plate refer to the Parts and Price List under the initials NS in the PHOTO NO. column. You can identify your part in the DESCRIPTION column.

This is important: Your repair parts are ordered directly from your dealer. The only information that he needs is the PART NO. and the quantity needed. For prompt delivery order by PART NO. and quantity only. This will eliminate any possibility of mistakes, and it will also save your valuable time. Unless otherwise stated, all prices in the Parts and Price List are for Single Units.

All Prices f.o.b. Dunbar, W.Va.-Prices Subject To Change Without Notice



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November 30, 1949

THIS SUPERSEDES ALL OTHER PARTS & PRICE LISTS

ISSUED PRIOR TO THIS DATE

Printed in U. S. A.

For GRAVELY TRACTORS, Serial No. 47593 to ----

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OPERATING INSTRUCTIONS FOR THE MODEL L GRAVELY TRACTOR

FILL THE TANK WITH GASOLINE

Your engine will give you good results if you use a good gasoline. We recommend Mobilgas Regular for best results. To fill the tank, merely take off the cap and pour in the gasoline. Tank capacity is about two gallons, and should run you about 8 hours under normal working conditions. We do not recommend any Hi-Test gasoline.

FILL WITH OIL

Remove Filler Cap on the Chassis Top and pour in about five pints of good grade of motor oil. We recommend: For summer use, Mobiloil AF (SAE 40). In winter, Mobiloil Arctic (SAE 20). This lubricates both the motor and final drive as well. Realize the importance of always keeping oil up to the proper level. To check this, have your machine setting completely level. Notice on the right-hand side of the Chassis a Try Cock Valve. Loosen this Valve. If oil runs out, you have an ample supply.

When using your tractor on extremely steep hills be positive that a full five pints are in it so as to give an ample supply when the machine is tilted at an angle.

CRANKING MOTOR

You must attach one of the attachments before attempting to start the motor.

Wind the Strap clockwise around the Fan Pulley, which is on the rear of the engine. Before spinning be sure both Clutch Levers on the right Handle are each in the middle, or neutral, position

The Magneto on the motor is equipped with an Impulse Coupling. This means easier starting. A good spark can be produced without the necessity of too fast a spin. GET A GOOD FIRM GRIP ON THE STARTING STRAP HANDLE WHEN CRANKING AND DON'T LET LOOSE. Experiment with the easiest method for you to crank. Some users find by backing the motor so that it will be off compression that they can crank much easier. Others prefer to spin faster. Use whichever method seems easiest to you.

SELECTING SPEEDS

You have two forward and two reverse speeds. TO GO FORWARD IN LOW GEAR, push left hand Clutch Dever (on right handle) as far forward as it will go. Then, pull right-hand Lever as far backward and downward as it will go. Your machine is now moving forward in low speed. TO CHANGE TO HIGH, simply pull left-hand Lever only as far backward and downward as it will go. TO REVERSE, push right-hand Lever forward. Then, select low and high speed with left hand lever same as for forward travel.

- REMEMBER: 1. Left-hand lever is selector, high and low travel speed.
 - Right-hand lever is for forward and reverse.

TRANSMISSION CLUTCH

A double-acting cone type Clutch is used. To take up for wear, simply tighten nuts on ends of Clutch Rods. After first using and wearing in, this might be necessary, but after that adjustment nothing should be needed for some time. Clutch will give ample warning by tendency to slip under load. Unless that happens do not tamper with it.

ATTACHING TOOLS

All Power Attachments (and most others as well) are bolted directly on front of Tractor by means of the four bolts. The cultivating toolholder, snow plow, etc., are not power driven and do not require any clutch or meshing of gears.

When attaching power attachments make sure that the THROW OUT LEVER IS IN THE OUT POSITION.

POWER ATTACHMENT CLUTCHES

Each Power Attachment has an individual safety slip clutch, which is adjusted by us and which should be just tight enough to stall engine. If this becomes loose take up tension springs.

POWER ATTACHMENT THROWOUT LEVER

This is used to free Power Attachments when going to and from a job, etc. Always idle motor and have control levers in the neutral position when putting attachments in gear.

A method which will prevent raking the gears when you are putting attachments in gear is as follows:

Idle motor. Then, be sure the speed selector is in the neutral position. Use the other lever, and begin to put the tractor in reverse--use care, ease it into gear until the Tractor Engine begins to "pull down" and/or the tractor begins to barely creep backwards. Then put the attachment in gear. You will find that this will prevent any raking and will add many months of life to your Attachment Clutch.

OILING INSTRUCTIONS

When the Tractor is new the motor oil should be changed after the first 15 to 20 hours of running. After breaking in this changing should be according to usage. Working conditions as well as hours of running determine this. You should check oil as to the body and the amount of sediment in it and change accordingly. We would say it would be a good habit to form to change oil after every 50 hours of running.

The Oil Filter should be renewed once a season. This too is dependent upon usage.

TO CHANGE OIL

Remove the Drain Plug on bottom of Chassis and allow oil to drain. IT IS WISE TO FLUSH OUT BY PRESSURE WHEN THIS IS DONE. Replace the Plug before refilling.

VALVE TOP OIL

When the motor is new and being run in, use Mobil Upperlube valve top oil mixed with the gasoline according to instructions found with such oil. IT IS ALSO WISE TO USE THIS BEFORE THE MACHINE IS STORED AWAY FOR ANY LENGTH OF TIME AND THERE IS A POSSIBILITY OF PARTS RUSTING.

THINGS TO DO TO AVOID TROUBLE

This is possibly the most important part of the instruction book. Unless the user reads and follows out the points which follow we cannot be responsible in case of trouble. The proverbial "ounce of prevention" truly applies to machinery of this type.

CHECKING OIL PUMP

The first and every time you start the motor make sure the oil pump is working. Remove the Filler Cap to see if a good steady stream is coming forth. IF IT ISN'T DO NOT OPERATE THE MOTOR ANY LONGER UNTIL THIS IS REMEDIED.

REMEDIES: 1. Check for Air leaks around Intake Oil Line and connections connecting from the motor to the chassis.

2. Check Oil Line: to make sure it isn't stopped up. Many times an obstruction is found in Oil Strainer Body. To clean this body, remove 6 Axle Housing Bolts on left side of tractor and pull out axle housing. Then you can get into the chassis to see the Oil Strainer Body. Without removing, make sure that oil screen on bottom of oil strainer body inasn't clogged up. If it is clogged the strainer body must be removed. This is done by first loosening the intake oil strainer nut. Then the oil strainer body can be worked out the left side of the ctor.

In cases where lack of oil has caused your motor to burn out a bearing or connecting rod, when you replace these BE SURE AND CHECK THIS CLOGGING OF OIL. If that has caused your first trouble, even replacing new parts will not be the remedy.

DO NOT RUN MOTOR AT FULL SPEED UNTIL IT HAS BEEN RUN FOR AT LEAST A WEEK.

HAVE A REGULAR PERIOD TO GO OVER THE ENTIRE MACHINE AND TIGHTEN NUTS AND BOLTS THAT WILL BECOME LOOSE.

CHECK OFTEN FOR WEAR ON PARTS AND GET NEW ONES BEFORE OLD ONES BECOME WEAK AND BREAK. Such a breakage is liable to cause damage to other parts.

AIR CLEANER

Because of the abrasive effect of dust on all moving parts of the engine, and its effect on carbon deposits in the cylinder, it is of the utmost importance that you keep your Air Cleaner in place and see that all connections are tight. WE CANNOT MAKE OUR GUARANTEE VALID UNLESS THESE INSTRUCTIONS CONCERNING THE AIR CLEANER ARE STRICTLY ADHERED TO.

Instructions as to the amount of oil to be used with your Air Cleaner are on the Air Cleaner itself. Be sure to check the Air Cleaner after each day's use to see that it contains the proper amount of oil.

It is a good idea to clean your Air Cleaner itself frequently before adding fresh oil. Remember that should your Air Cleaner become clogged from dirt or dust, you are doing the same thing as running your tractor without any protection at all.

When the Tractor is used under dusty or similar conditions you should regularly clean the outside of the motor too, removing all waste that clings around the cylinder fins especially.

THINGS TO DO IN CASE OF TROUBLE

ENGINE HARD TO START: This may be due to any of the following: Improper carburetor adjustment; faulty ignition; interrupter contacts too wide; spark plug dirty; or points improperly spaced. Store the machine in a warm dry place in winter.

ENGINE FLOODED: If when cranking engine you notice a vapor coming from the exhaust, more particularly when it is hot, it is due to excess gasoline and it will not start until this excess is eliminated from the cylinder. Open the Vent on the Manifold Return U and allow the machine to set for a few minutes. It should start without any trouble.

ENGINE OVERHEATS: This may be due to insufficient oil supply; improper carburetor adjustment; magneto timing to engine too late; cylinder fins clogged; fan not working properly; excessive carbon in cylinder, etc.

ENGINE LOSES POWER: If the compression is poor, with a resultant loss of power, it may be remedied by the following: Reseat valves if leaking. Check Valve Tappets and adjust if necessary. Be sure the Piston Rings are not stuck in the grooves. If the compression loss is due to worn piston and rings, it will be necessary to replace these with new ones. If the cylinder is badly worn, it will be advisable to send it back to the factory to have it rebored and fitted with new and oversize piston and rings.

ENGINE STOPS SUDDENLY: If engine has been running nicely and stops suddenly, first see that you have gasoline in the tank. Remove spark plug and lay it on top of cylinder with cable connected. If you have a good spark, disconnect gasoline line from carburetor and see that gas flows freely. It may be possible there is dirt in the carburetor, or the lines may be plugged.

TIMING L MODEL ENGINE

To time magneto points, remove Cylinder Head and set the magneto coupling so that the impulse kicks off when the Piston reaches top dead center on compression stroke. To determine the compression stroke, crank engine slowly until Piston travels upward with both valves closed.

(The usual cause for timing to be off is by the coupling nut slipping on the Impulse Coupling of the Magneto. To set, back up the Coupling Nut. Then, lightly tap the Coupling with a hammer to loosen so that you can move the Magneto Timing.)

CHECKING ADJUSTMENT

Spark Plug Points should be cleaned and checked for clearance and set with a gap of .030. Valves should be checked for carbon or other like material that might get into the seats and cause leakage. Also, valves should be given .008" clearance between Valve Stem and Valve Plunger.

CARE OF TIRES

Always keep 35 to 40 pound pressure in the tires. Lower Pressure might possibly allow slippage on the rim thereby pinching and damaging the valve inlet ruining the tire inner tube.

Remember that these tires, whether ground-grip or all-weather type, have an inner tube and should thus be treated exactly like your automobile tire. Should trouble develop, remove the wheel by taking out the six rim bolts and repair the tire just as you would that of an automobile.

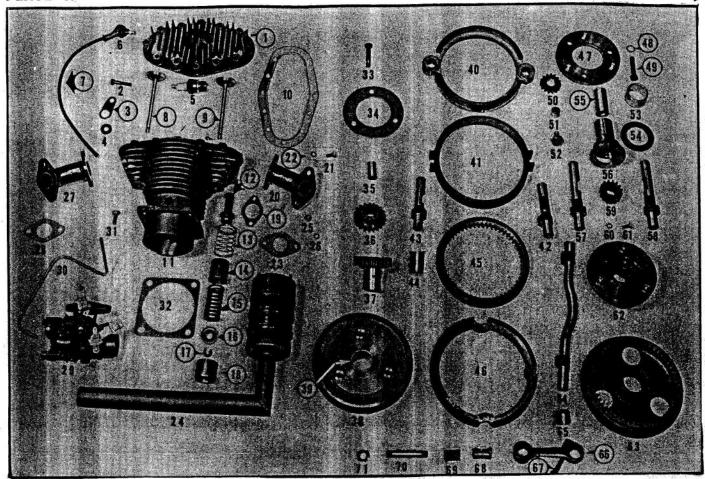
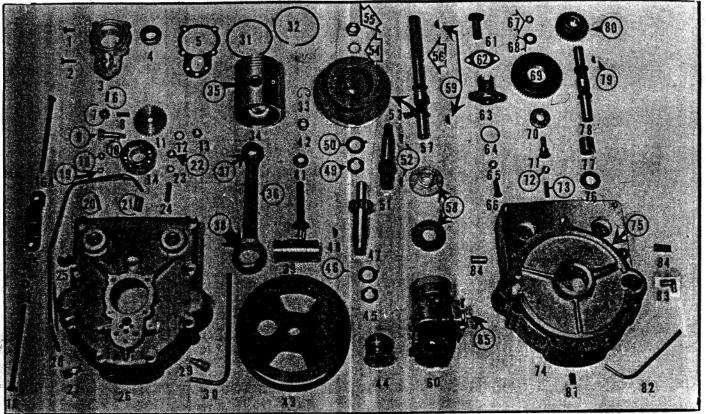


PHOTO		DESCRIPTION	PRICE	PHOTO NO.	PART NO.	DESCRIPTION	PRICE
1	5734	Cylinder Head	6.58	37	L 511	Sun Gear	4.70
2 3	154-S	Cylinder Head Bolt	.04	38	L 506	Rear Pin Plate	3.63
3	L 826	Cable Bracket	.11	39	L 535	Rear Pin Plate Bushing	.44
4	L 827	Rubber Grommet	.03	40	L 502	Rear Spacer	3.77
5 6 7	1709	Spark Plug	.66	41	L 503	Clutch Cup	2.75
6		Spark Plug Nipple	.22	42		Clutch Slide Rod, Short	1.45
7	1731	Magneto Cable, Complete	.33	43	L 711-L	Clutch Slide Rod, Short	1.45
8 9	L 311-N	Valve, Intake	.66	44	L 714	Slide Rod Bushing	. 39
9		Valve, Exhaust	.77	45		Internal Gear	3.10
10	5735	Cylinder Head Gasket	.53	46		Gear Cup	2.71
11		Cylinder	18.54	47		Front Pin Spacer	2.40
12	5737	Valve Guide	.77	48	305-W		.01
13		Sleeve Spring	.14		724 290	B to a second to the second	
14	L 315	Upper Spring Sleeve	.20	49	L 516-R	Spacer Bolt, Right Hand	.15
15	L 312	Valve Spring	.11	50-		Reverse Idler	1.17
16	5741	Valve Spring Cap	.11	51		Reverse Idler Bushing	.12
17	5742	Valve Spring Cap Key	.06	52	L 542	Reverse Idler Bolt	.11
18	L 316	Valve Spring Cap Valve Spring Cap Key Lower Spring Sleeve Manifold Gasket	.20	53	L 532	Quill Bearing	.47
19	L 407-B	Manifold Gasket	.03	54		Front Thrust Plate	.53
20&27	L 301-A	Manifold, Intake and Exhaust	1.31	55		Pinion Shaft Bearing	.24
21	164-S	Manifold Bolt	.02	56	L 536	Pin Plate Quill	3.03
22	303-W	Manifold Bolt Lock Washer	.01	57		Clutch Slide Rod, Long	1.55
23	L 301-M	Muffler Gasket	.04	58		Clutch Slide Rod, Long	1.55
24	L 816	Muffler	3.85	59	L 510	Sun Pinion	1.40
25		Muffler Securing Nut	.02	60	303-W	Quill Securing Bolt Washer	.02
26	303-W	Muffler Sec. Nut Lock Washer	.01	61	165-S	Quill Securing Bolt	.02
28	L 301-B	Zenith Carburetor Gasket	.04	62	L 505	Front Pin Plate	2.92
29	L 806-Z	Carburetor-Zenith	10.64	63	L 537&8	Reverse Cone Assembly	6.97
30	L 706	Gas Tube (Carburetor)	. 17	64	L 712	Clutch Actuating Shaft	2.27
31	126-S	Carburetor Bolt	.04	65	L 713	Actuating Shaft Bushing	.19
32	L 317	Cylinder Bottom Gasket	.04	66	L 715	Actuating Shaft Lever	1.02
33		Spacer Bolt, Left Hand	.15	67	109-S	Actuating Lever Clamp Bolt	.03
NS		Spacer Lock Washer, Left Hand	.02	68	L 723	Clutch Rod Pivot	.24
34		Pin Spacer	.33	69	L 729	Clutch Spring	.11
35	L 514	Orbit Gear Pin	.19	70	L 730	Spring Sleeve	.24
36		Orbit Gear	2.46	71	210-N	Clutch Spring Sleeve Nut	.03



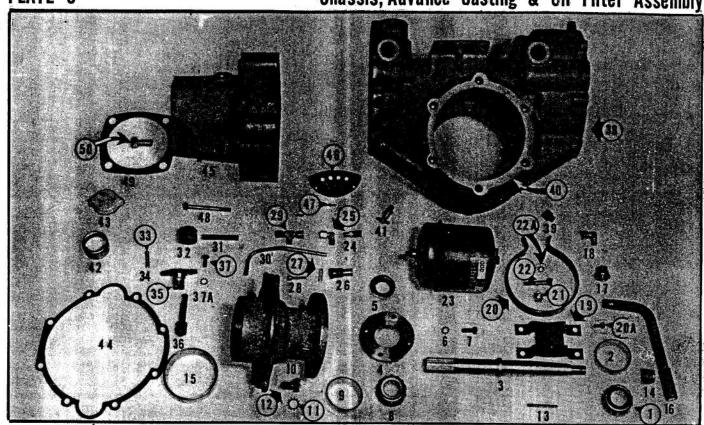
2	108-S	Bearing Cap Bolt Short	00	1			
2	108-S		.02	1		Piston .020 With Pin	4.95
7	L 103	Bearing Cap Bolt Long	.07	ı		Piston .025 With Pin	4.95
4		Bearing Cap Bolt Snort Bearing Cap Bolt Long Bearing And Pump Cap	2.75			Piston .030 With Pin	4.95
	L 126-A	Bearing Cap Double Seal	.77	35	5763	Piston Pin	.91
5	L 125	Bearing Cap Gasket	.02	36	L-306	Connecting Rod Complete	2.73
6	L 124	Bearing Cap Dowell	.04	37	L 306-A	Connecting Rod Bushing Small	.36
7	L 422	Oil Pump Idle Gear Idle Gear Stud	.77	38		Connecting Rod Bushing Large	.72
8	L 423	Idle Gear Stud	.10	39	L 105	Crank Pin	2.22
9	L 421	Oil Pump Master Gear	1.94	40	L 106	Spreader Bolt Spreader Bolt Washer Spreader Bolt Nut	.60
	507-K	Oil Pump Master Gear Key	.02	41	L 107	Spreader Bolt Washer	.31
11	L 419-A	Oil Pump Drive Gear	1.21	42	210-N	Spreader Bolt Nut	.03
12	305-W	Oil Pump Master Gear Lk. Wshr.	.01	43	L-104	Fly Wheel	4.84
13	215-N	Oil Pump Master Gear Nut	.02	44	L 114	Drive Pinion Bearing Fly Wheel Nut	1.65
		Timing Pinion Bearing	3.09	45	L 112	Fly Wheel Nut	.11
	L 224	Fan Housing Bracket	•50	46	L 113	Fly Wheel Nut Lock	.04
	L 116	Crank Case Bolt, Long Crank Case Bolt, Short Fan Housing Bolt Nut	.14	47	L 109	Prive Pinion Shaft Drive Pinion Shaft Key Fly Wheel Nut Fly Wheel Nut Lock Timing Pinion Shaft Fly Wheel Key Fan Drive Pulley	4.26
	L 117	Crank Case Bolt, Short	.14	:48	504-K	Drive Pinion Shaft Key	.02
	205-N	Fan Housing Bolt Nut	•03	49	L 112	Fly Wheel Nut	•11
	202-N	Plunger Guide Stud Nut Plunger Guide Lock Washer	.02		L 113	Fly Wheel Nut Lock	.04
	303-W	Plunger Guide Lock Washer	•01	51	L 110	Timing Pinion Shaft	3.39
20	L 405	Plunger Guide Stud	.10	52	504-K	Fly Wheel Key Fan Drive Pulley Fan Drive Pulley Nut Lock	.02
21	L 420-A	Oil Pump Bearing Bushing	.25	53	0140	Fan Drive Pulley	5.11
22	206-N	Cylinder Stud Bolt Nut	.02	54	309-W	Fan Drive Pulley Nut Lock	.02
23	305-W	Cylinder Stud Bolt Lock Washer	.01	55	218-N	Fan Drive Pulley Nut	.08
24	L 303	Cylinder Stud Bolt	.10	56	r 810	Magneto Shaft Extension	.54
25	L 411	Expansion Plug	.08	57	L 402	DANGUS COM DIGIT C	1.87
	L 101	Outer Crankcase	14.85	58	L 809	Magneto Coupling Complete	2.73
27	L 707	Pump Discharge Connection	.15	1		Magneto Fiber Coupling	1.50
28	L 813-B	Pump Discharge Line	.17	59	503-K	Magneto Shaft Extension Key	
29	L 814-A	Pump Supply Connection	.28			(Also Exhaust Cam Shaft Key)	.02
30		Pump Supply Line	.17	60	L 808	Magneto	28.14
31	5758	Oil Rings (Repairs) (o.s.)	.32	61	L 404	Valve Plunger Valve Plunger Gasket Valve Plunger Guide	.77
	1200022	Oil Rings (Std.)	.32	62	L 407-A	Valve Plunger Gasket	.03
32	5757	Compression Ring (Repairs)(o.s	.) .32	63	L 403	Valve Plunger Guide	1.37
		Compression Ring (Std.)	.32	64	L 319	Sleeve Gasket	.03
33	15-17-0-5-4-2-404-404-41	Piston Pin Lock	.01	65	L 409	Tappett Lock Nut	.08
34	5762	Piston Std. With Pin	4.95	66	L 408	Tappett Screws	.11
				67	220-N	Bearing Stud Nut	.02
		Piston .010 With Pin	4.95	68	403-W	Bearing Stud Nut Wasner	.01
NS	802-A	Piston .015 With Pin Drive Pinion Shaft Set Screw	4.95 .10	NS	803-A	Inner Crank Case Set Screw	.10

PLATE B PARTS & PRICE LIST CONTINUED

PHOTO	PART		N N	PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE	NO.	NO.	DESCRIPTION	PRICE
69	L 415	Idler Gear	2.18	80	L 413	Cam Shaft Gear	1.02
, 70	L 416	Idler Gear Bearing	1.49	81	701-P	Crank Case Drain Plug	.05
71	L 417	Bearing Stud	.29	82		Motor Supply Line	.17
72	215-N	Crank Case Stud Nut	.02	83		90° Oil Line Elbow	
73 74*	L 118	Crank Case Stud Bolt	.10	NS	L 814-E		.25
	r 105	Inner Crank Case	13.75	84	L 120	Crank Case Dowell	.14
75	L 210	Chassis Rear Gasket	.08	85	190-S	Magne to Bolt	.15
76	L 412	Cam Shaft Oil Seal	.47	NS	5784	Drive Pulley Pin	.04
77	L 410	Cam Shaft Bearing Bushing	.24	3423000		terminal approvation to the contract of the co	.06
78	L 401	Intake Cam Shaft	1.93	*	Inner an	d Outer Crankcase Assembly	sold as a
.79	503-K	Cam Shaft Gear Key	.02	THE 88	unit. T	otal price: \$28.60	*

PLATE C

Chassis, Advance Casting & Oil Filter Assembly



1000		N. 经基本公司 (1)	ン		the state of	11	
PHOTO	PART	*		PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE	NO.	NO.	DESCRIPTION	PRICE
1&8	L 610	Axle Bearing (Cone)	1.64	30	L 813-D	Filter Discharge Line	.17
2&9		Axle Bearing (Cup)	1.08	31	L 732	Shipper Shaft Lever	.10
3	L 611	Axle	2.48	32	L 733	Locator Body	.53
4	L 204-A	Bearing Cap	.87	33	1809	Locator Ball	.02
4 5 6	L 221	Bearing Cap Oil Seal, Double	.91	34	L 815-D	Locator Spring .025"	.11
6	304-W	Bearing Cap Lock Washer	.01	35	L 734	Shipper Shaft Guide	.87
7	126-S	Bearing Cap Bolt	.04	36	L 545	Shipper Shaft	1.35
10	L 203-A	Axle Housing	9.39	37	164-S	Shipper Shaft Guide Bolt	.02
11	308-W	Axle Housing Bolt Lock Washer	.01	37-A	303-W	Shipper Shaft Blt. Lk. Wshr.	.01
12	122-S	Axle Housing Bolt	.08	38	L 201	Chassis Casting	29.72
13	L 615	Axle Key	.04	39	705-P	Chassis Drain Plug	.06
14	219-N/	Axle Nut	•18		L 219	(.005) Bearing Cap Shim (ea.)	.09
15	L 609	Differential Bearing (Cup)	1.59			(Set of 6)	54
16	F 855	Oil Strainer Body	•58		5.00	(.020) Bearing Cap Shim (ea.)	.12
17	L 823	Oil Strainer Nut	•36			(Set of 2)	.24
18	L 814-F	Pump Supply Elbow	•35	40	L 220	(.005) Axle Housing Shim (ea.)	.17
19	L 828	Filter Bracket	•53			(Set of 6)	1.02
20	L 829	Oil Filter Mounting Band	.20			(.020) Axle Housing Shim (ea.)	.22
20-A	165-S	Filter Bracket Bolt	.02			(Set of 2)	.44
21	201-N	Filter Band Nut	.02	41	L 214	Oil Level Try Cock	•39
22	149-S	Filter Band Bolt	.06	42	r 511	Chassis Oil Filter Neck	.15
22-A	303-W	Filter Band Washer	.01	43	L 212	Chassis Oil Filter Cap	.62
23	L 812	Oil Filter	2.75	44	T. 503	Chassis Front Gasket	.08
24	L 707	Tube Connector	.15	45	r 505	Advance Casting	8.09
25	L 814-D	Motor Supply Elbow	.27	46	L 202-Y	Baffle Plate	.87
26	L 815-A	Relief Valve Body	•53 ·	47		Baffle Plate Rivet	.01
27		Relief Valve Spring	•09	48	L 207	Advance Casting Bolt	.12
28		Relief Valve	.40	49	5056	Attachment Gasket	.07
29	L 814-C	Discharge Line Tee	•38	50	160-S	Attachment Bolt	•08

Internal Chassis & Worm Gear Assembly

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PL	A.	E		U
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11. 15				333

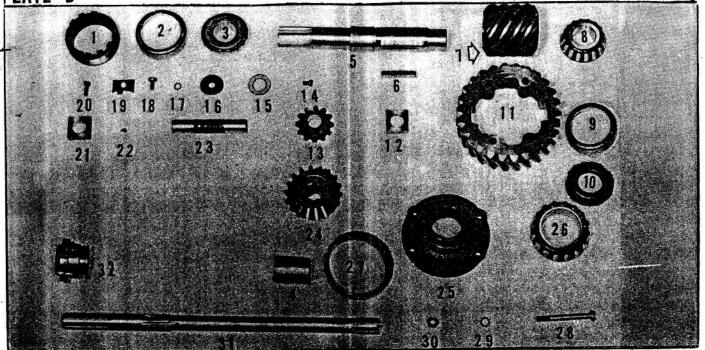


PHOTO NO.	PART NO.	DESCRIPTION	PRICE
1	L 507	Bearing Adjusting Nut	1.21.
2&9	L 522	Worm Shaft Bearing (Cone)	2.01
3&8	2 022	Norm Shaft Bearing (Cup)	1.19
	L 547	Worm Shaft Spacer	.30
4 5 6	L 521	Worm Shaft	3.58
6	L 608	Worm Key	.04
7	L 601	Worm	9.80
10	L 519	Rear Thrust Plate	.53
11	L 602	Worm Gear	20.44
12		Driving Block (With Keyway)	.91
13	L 603	Bevel Pinion	2.65
14	107-S	Lock Screw	.06
	L 735	Clutch Act. Shaft Oil Seal	.03
15 16 17	L 736	Oil Seal Washer	.03
17	303-W	Actuating Shaft Lock Washer	.01
18	165-S	Actuating Shaft Securing Screen	100000000000000000000000000000000000000

	PERSONAL PROPERTY.		March March Comme
PHOTO			PDTOR
NO.	NO.	DESCRIPTION	PRICE
19	L 523	Adjusting Nut Lock	.04
19	107-5	Gear Cup Screw	.06
NS	303-W	Gear Cup Screw Lock Washer	.01
21	L 607	Driving Block	.83
22	501-K	Pinion Pin Key	.02
23	L 605	Pinion Pin	.77
24	L 604	Bevel Gear	4.49
'25	L 205	Differential Housing	1.94
26	L 609	Differential Bearing (Cone)	2.97
27		Differential Bearing (Cup)	1.59
28	L 206	Differential Housing Bolt	.12
29	304-W	Differential Housing Blt. Lk.	
23	001-N	Washer	.01
30	204-N	Differential Housing Nut	.02
31	L 543	Pinion Shaft	3.03
32	L 544	Clutch Dog	3.39.

PLATE E

Fan Assembly

	Contraction of the Contraction o	Recorded and the second	and the second section of	SEPERIOR CONTRACT
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PHOTO NO.	PART NO.	DESCRIPTION	PRICE
L	L 805	Fan Blade	.58
3		Fan Blade Assembly Complete	1.94
XS	5138	Fan Blade Rivet	.01
	5137	Fan Shaft	.44
4	305-W	Fan Nut Lock Washer	.01
5	206-N	Fan Securing Nut	.02
3 4 5 7	5133	Fan Bearing Race Retainer	1.05
7	L 830	Fan Retainer Adjusting Washer	.17
В	5134	Fan Bearing Lock Nut	.25
Э	5165	Fan Bearing Spacer	.06
10	5139	Fan Ball Bearing	1.42
11	L 802	Fan Pulley	1.11
12	401-W	Fan Pulley Jam Nut Washer	.01
13	204-N	Fan Pulley Jam Nut	.02
14	5163	Fan Belt	.93

PLATE E-1

Return U Assembly

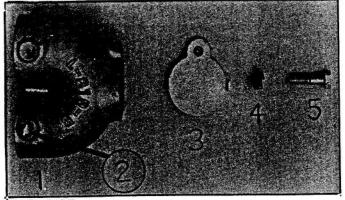


PHOTO NO.	PART NO.	DESCRIPTION	PRICE
1	L 819-B	Manifold Return Casting	1.45
2	101-8	Return U Securing Screw	.02
1 2 3	L 819-B1	Manifold Return Casting Vent Cover	.05
4		Manifold Return Casting Vent Cover Spring	.02
5	L 819-B3	Manifold Return Casting Vent Cover Screw	.03

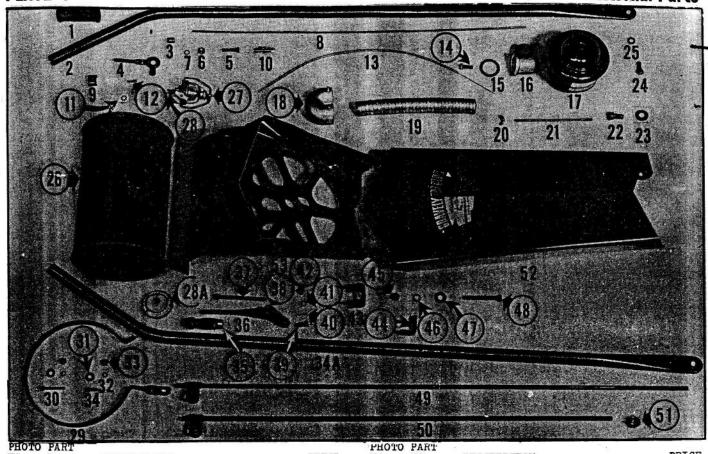


PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE
1	5125	Driving Handle Grip	.55
2	L 724-L	Initing Dandla Taff	1.90
3	L 741	Throttle Lever Hub Throttle Lever Throttle Lever Pivot Bolt Pivot Bolt Nut	.06
4	L 740	Throttle Lever	.19
5	154-S	Throttle Lever Pivot Bolt	.04
6	214-N	Pivot Bolt Nut	.02
7	401-W	Pivot Bolt Washer	.01
8	L 737	Throttle Wire	.08
9	L 739	Throttle Guide Clamp Washer	.08
10	L 738	Throttle Wire Guide	.02
11	Not Used		(1.75 (T) (T))
12	102-S	Guide Clamp Securing Screw	.02
13	L 729-A		.11
	L 729-B	Choke Wire Guide	.13
14	101-8	Air Filter Bracket Lock Screw	.02
15	L 819-G	Gasket	.08
16	L 819-C	Air Filter Bracket	1.69
17	L 817-A	Donaldson Oil Bath Air Cleaner	4.24
19	L 819	Air Filter Manifold	.44
20	L 819-F	Air Filter Manifold Wing Nut Air Filter Bolt	.07
21	L 819-E	Air Filter Bolt	.10
22	T 019-D	WIL LITCAL DISCRAC DOLC	.10
23	L 821	Hood Spacer	.04
24	111-8	Driving Handle Securing Bolt	.05
25	305-W	Driving Handle Sec. Blt. Lk. Wsh	r01
26	L 701	Tank	6.0C
27	L. 705	Gas Strainer Complete	1.38

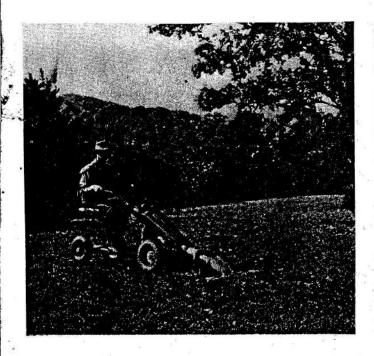
PLATE F-1 Safety Clutch & Starting Strap



PHOTO PART
NO. NO. DESCRIPTION PRICE
1 SC 30 Dog Plate 4.4C

		一种的样格的表现	
PHOTO	PART		1755466
NO.	NO.	DESCRIPTION	PRICE
28	L 814-E	Gas Filter Nipple	.14
28-A	2505	Tank Cap	.3E
29	5164	Tank Band	.29
30	149-S	Tank Band Bolt Long	.06
31	401-W	Tank Band Bolt Washer	.01
32	303-W	Tank Band Bolt Lock Washer	.01
33	201-N	Tank Band Bolt Nut	.02
34	107-S	Tank Band Bolt, Short	.06
34A	L 724-R	Driving Handle, Right	1.90
30	9167	Hand Lever Grip	.20
36	L 716	Clutch Hand Lever	-63
NS	L 716	Speed Selector Lever	.63
37	L 718	Hand Lever Pivot Bolt	.17
38	L 717	Hand Lever Pivot	.53
39	L 722	Clutch Rod Clevis Pin	.15
40	602-C	Clevis Cotter Pin	.01
41	401-W	Hand Lever Pivot Bolt Washer	.01
42	204-N	Hand Lever Pivot Bolt Nut	.02
43	L 728	Driving Handle Bracket	.10
44	L 742	Clutch Rod Brace	.15
45	205-N	Drive Handle Bracket Bolt Nut	.03
46	305-W	Drive Handle Brkt.Blt.Lk, Wshr.	
47	403-W	Drive Handle Brkt.Blt.Flat Wsh	r01
48	131-S	Drive Handle Rear Bolt	.09
49		Clutch Rod, Long	.86
50	L 720-S	Clutch Rod, Short	.83
51	220-N	Clutch Rod Adjusting Nut	.02
52	L 820	Hood	1.65
53	L 222	Fan Housing	3.49
PLAT	E F-I	SAFETY CLUTCH & STARTING	STRAP

PLATI		SAFETY CLUTCH & STARTING	STRAP
PHOTO NO	PART NO.	DESCRIPTION	PRICE
2		Friction Washer	.21
2	SC 34		1.16
3	SC 33	Drive Plate Keyway	1.10
NS	SC 33-S	Drive Plate, Spline, Rotary	
		Mower & Power Brush	1.16
4	SC- 32	Back Plate	.61
5	SC 37	Spring Bolt	.12
6	SC .35	Spring	.12
			.02
7	215-N	Spring Bolt Nut	• • •
ns	232-N	Spring Bolt Lock Nut, Sickle Mower Only	.10



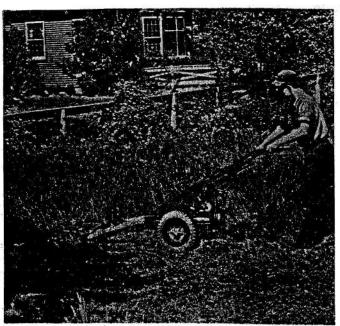
SICKLE MOWER

LUBRICATION: DON'T FORGET TO OIL THE MOWER BEFORE USING! NOTICE THE TWO OIL PLUGS FOUND ON TOP OF THE GEAR HOUSING OF THE DRIVE MECHANISM. REMOVE THE LOWER PLUG, THE ONE TOWARD THE SICKLE BAR, AND FILL WITH ABOUT ONE-HALF PINT OF MOBILUBE C (SAE 140 GEAR OIL) OR ITS EQUIVALENT. ALWAYS KEEP WELL LUBRICATED. NEVER USE HEAVY GREASE. IF GEAR OIL IS NOT AVAILABLE USE THE HEAVIEST GRADE OF MOTOR OIL OBTAINABLE. REMOVE THE UPPER PLUG, THE ONE NEXT TO THE TRACTOR, AND CHECK THIS ALSO. IT SHOULD BE ABOUT HALF FULL OF MOBILGREASE NO. 2 OR ITS EQUIVALENT.

Skids can be purchased from your dealer. For most of your work you will not find it necessary to use these. With them you can further regulate the cut. If four are used put directly under the first and fifth guard from either end. The Guard Bolts are removed and the Skid Bolts put in the vacant holes, using the same Guard Nuts. One small Adjusting Spacer is furnished with each Skid. One or more of these can be used, and which further regulates the depth of height of the cut.

A patented and highly important feature found on the GRAVELY Mower is the SWIVEL ACTION OF THE CUTTER BAR. On the upper part of the two Crank Housing castings you will find four nuts and bolts. The first two on either side, and closer to the tractor proper, effect the swivel. With these nuts tight, the bar is held rigid. But, loosen them and you will have the SWIVEL ACTION. For mowing level ground the bar swivel can be tight. But for hillsides it should be loosened to allow the bar to follow the slope of the ground while the tractor remains upright. DON'T HAVE THE SWIVEL LOOSE ENOUGH TO TURN WITHOUT SOME PRESSURE. It should be just tight enough to hold its position until lowered, when its own weight should cause it to tilt according to the slope of the ground.

Best results are secured by operating at an easy walking speed. DON'T RACE YOUR MOTOR. If you get into grass that you cannot cut without racing the motor, SHARPEN THE KNIVES. Racing is hard on the machine and makes you more likely to break something in case you hang in wire or anything that the knives won't cut. At a moderate speed you can cut from three to four acres per day, and if your motor does stall you will not do any damage beyond a nick in the knife.



SUGGESTIONS FOR SECURING THE BEST MOWING RESULTS

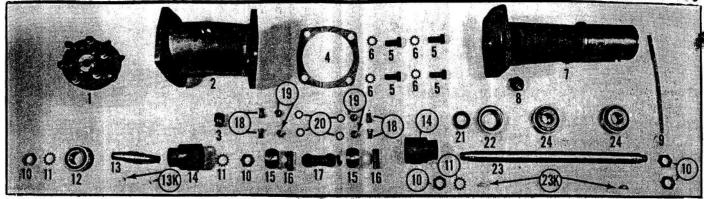
A SHARP SICKLE. Any kind of a dull, gapped sicklebar will cut coarse weeds and bushes, but when you get into fine grass you will have trouble if your knives are dull. Keep them sharp. To remove the cutting knife complete to sharpen for instance, remove the Knife Bracket Screws and slip the blade out on either side. ALWAYS KEEP THESE SCREWS REAL TIGHT. If they are even a little loose there is danger of stripping the threads. Sharpen the knives often. They will hold an edge longer, will not nick so easily and will cut equally as well if ground at an angle of 45 degrees, or about the same as scissors are ground. (A small Hand Sickle Grinder with a proper curved wheel, will pay for itself time and again in better mowing results).

See that the knife bar is straight and the points of the knives are in line so that the Sickle-bar will lay flat on the guards.

Keep the guards in alignment. If one guard gets knocked up and the other down it will not cut fine grass. Use a light hammer and knock the guards up or down until the knives on the Sickle-bar lay flat in contact with the shearing edges of the guards. Make sure that all the guard bolts are drawn tight.

Adjust the clips that hold the sickle-bar closely, but do not allow them to bind. The knife should slide back and forth easily with the pressure of finger and thumb. It is not necessary to lubricate the knife as the grass will furnish lubrication, but a few drops of machine oil on the sections will help to prevent rust and sometimes make for easier running.

If these few directions are followed your Mower will last almost indefinitely. Keep out of wire, iron, rocks, tin cans, and so on. If the GRAVELY Mower is kept properly adjusted and sharpened it does its work so easily that mowing becomes a pleasure instead of one of the dreaded jobs. It will mow anything from wire grass to locust sprouts, and will do it cleaner, better and easier than any mowing machine built.



PHO TO	PART		-
NO.	NO.	DESCRIPTION PR	ICE
1		Slip Clutch Complete 8	.15
2	3197	Universal Housing 6	.15
3	702-P	Universal Housing Plug	.06
4 5	5056		.07
5	160-S	Universal Housing Conn. Bolt	.08
6	308-W	Universal Housing Conn. Lk. Wshr.	.01
7	3107	Drive Column 7	.62
8	703-P	Drive Column Plug	.09
9	3173	Swivel Cork Seal	.03
10	1304		.12
11	309-W	Stud Shaft Lock Washer	.02
		(Also Crank Shaft Lk. Wshr.)	
12	3197-G	Stud Shaft Bearing 3	.10
13	3197-F		.44
13-K	504-K	Stud Shaft Key	.02
14	3197-A		.90
15	3197-B	Center Ring	.32
16	3197-D	Pivot Pin	.46
17	3197-C		.23
18	3197-E		.12
19	231-N		.12
20	305-W		.01
21	L 126		•56
22	3151		.04
23	3142-A		.91
23-K	504-K		.02
24	3147	Crank Shaft Bearing Assy. (Cone & Cup) 2.	62

PLATE I

Wheel Assembly

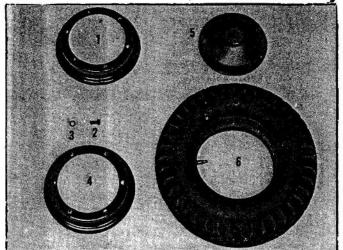


PHOTO	PART NO.	DESCRIPTION	PRICE
1	L 616-A	Inner Wheel Disc	1.09
S	121-8	Hub Screw	.08
3	305-W	Hub Screw Lock Washer	.01
4	L 616-A	Outer Wheel Disc	1.09
5	L 614-B	Wheel Hub	3 41
5	L 616	Tire And Tube (Price on re	quest)

PLATE H Sickle Mower Head Assembly

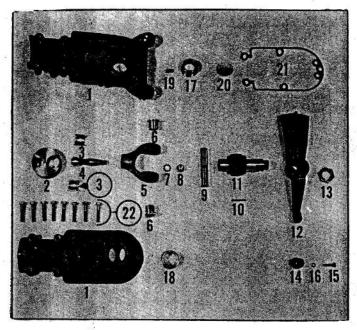


PHOTO			
NO.	NO.	DESCRIPTION	PRICE
1	3114 &		
-	3115	Crank Housing Assy.	12.39
2	3143-A		1.67
3	3145	Ball Stud Bearing	1.17
4	3144	Crank Yoke Ball Stud	2.44
** 5	3116	Crank Yoke	2.93
5	3178	Knuckle Pin Bearing	.35
7	308-W	Ball Stud Washer	.01
		Ball Stud Nut	.03
9	3176		1.45
10		Knuckle Pin Lock Rivet	.01
			4.35
		Actuating Lever Shaft	3.09
12		Knife Actuating Lever	.15
13	3181	Actuating Lever Nut	
14	3182	Actuating Lever Wearing Tip	.97
15	3154	Wearing Tip Bolt	.05
16	303-W	Wearing Tip Lock Washer	.01
17	3180	Lever Shaft Bearing (Slotted)	.45
18	3180	Lever Shaft Bearing	.45
19	3184	Crank Housing Dowell	.04
20	3198	Crank Housing Expansion Plug	.06
21	3191	Crank Housing Gasket	.12
22	124-S	Crank Housing Bolt	.0.5
NS	305-W	Crank Housing Bolt Lock Washer	.01

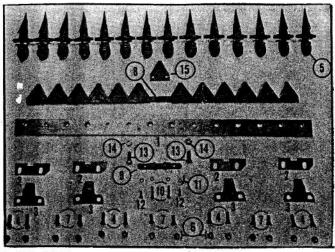


PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE
1	3301	Guard Bar	3.3C
2	3311	Wearing Plate	.19
3 4	3309	Knife Clip	.19
4	3304	Guard Bolt, Through Clip, Long	.06
5	3302	Guard	.62
6	3312	Guard Bolt Nut	.03
7	3303	Guard Bolt, Short	.06
8	3305	Knife Back	1.64
9	3510-B	Knife Drive Bracket 3"	1.23
10	M 514	Knife Drive Brkt. Bolt, Long	.06
11		Knife Drive Brkt. Lock Nut	.06
12		Knife Drive Brkt. Bolt, Short	
13	152-S	Guard Bar Securing Bolt	.09
14	211-N		.05
15	3206A		
NS		Center Section ea.	.09
NS	3206C	Left Hand Section ea.	.09
NS	3213	Skid Spacer	.08
NS	3306	Knife Complete With Bracket	4.24
NS	3307	Knife Rivets, .Ol Each, Per Lb.	.29
NS	3300		
ns	3211	Skid	.20
ns	3212		•06
NS	3312	Skid Bolt Nut	.03
DI 47	T 1	Skid Complete	39
PLA	C L	Power Tak	e uii'

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è	PHOTO		ART O.	DESCRIPTION			PRICE	
	1	A	339	Stands	1	Pr.	1.92	
	2	A	120	Bearing Housing			3.96	
	7	A	337	Take Off Shoft			2.52	

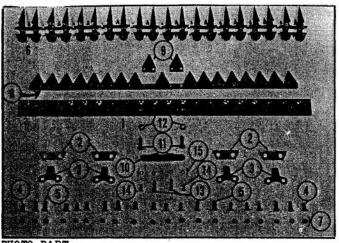


PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE
12	3501	Guard Bar	3.30
2	3504	Wearing Plate	.19
3	3503	Clip	.19
4	147-S	Guard Bolt, Short	.06
4 5		Guard Bolt, Long	.06
6	3502-A		.96
7	3509		.04
	3505		1.64
9		Knife Sec. Each .09, Box of 25	
VALUE OF THE PARTY	3510-A		1.23
īī	160-S		.08
	Not Use		.00
13	M 514		.06
100 TO 10	M 515	Knife Drive Brkt. Bolt, Short	.05
15	233-N		.06
NS	3500	2" Sickle Bar Complete	
NS	3507		
NS	3511	Knife Rivet, Each .Ol, Per Lb.	
70000			
ns	3506B	Bracket Section ea.	.09

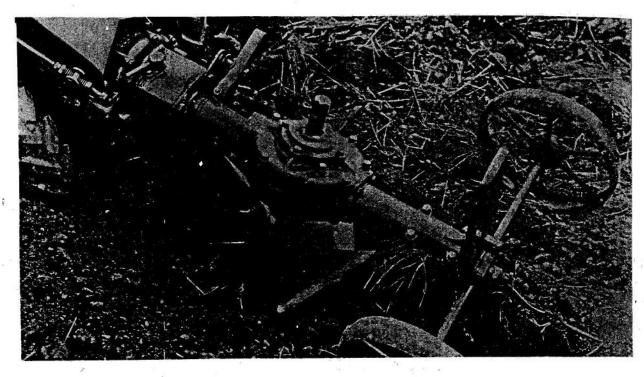
2 1/2 Inch Sickle Bar

		- 1/ - Illon Gloing Dui	
PHOTO	PART		
NO.	NO.	DESCRIPTION PRICE	
*	3600	22" Sickle Bar Comp. With Brkt. 18.15	
	3601	Guard Bar 3.30	
	3602	Guard .62	
	3603	Clip .19	
	3604	Wearing Plate .19	
	3605	Knife Back 1.64	
	3606	Knife Sec. Each .09, Box of 25 1.70	
	3607	Knife Complete with Bracket 4.24	
	3610	Knife Drive Bracket .47	
	152-8	Guard Bar Securing Bolt .09	
	211-N	Guard Bar Securing Bolt Nut .05	
	311-W	Knife Drive Bracket Washer .01	
	4014-A	Knife Drive Bracket Screw, Short .05	
	4014-B	Knife Drive Bracket Screw, Long .07	
	201-N	Bracket Screw Lock Nut .02	

Skid Complete (With Spacer 3213 @ .08) .39

#21 Inch Sickle Bar not shown in photograph.

PLATE	L	POWER TAKE OFF
PHOTO		DESCRIPTION PRICE
NO.	NO.	
4	A 338	Shaft Bearing 2.62
4 5 6	A 430	Pulley Key .04
6		Pulley 4" x 4" Face
•		(Other Sizes on Request 2.94
7	1304	Shaft Nut .12
8	504-K	Power Take Off Shaft Key .02
9	309-W	
NS	152-8	Mounting Screw .09



USING THE ROTARY PLOW

DEPTH OF CUT: Govern the depth of cut first by inserting the cotter pin into the Rotor Shaft. The higher up on the shaft you insert the pin the farther down will go the blades and the deeper the furrow. Then, make your final depth adjustment by sliding the wheel bracket clamp screw up or down on the wheel bracket. The lower you set it, the deeper you will plow.

WIDTH OF CUT: Adjust the width of the cut by the position of the wheel bracket in relation to the depth wheel that rides in the furrow. The closer over to the depth wheel you move the wheel bracket the narrower will be the cut. The wider the distance between the depth wheel and the wheel bracket the wider the cut will be.

SIDE DRAG: Sometimes there will seem to be an excessive side drag either to the right or left when plowing. This side drag is controlled by the angle of the Rotor Shaft. The more nearly perpendicular the Rotor Shaft, the greater is the tendency to the left. The more nearly horizontal, the greater tendency to the right. The angle of the Rotor Shaft is controlled by the sliding bracket clamp which is located on the casting next to where the plow fastens on to the tractor. After a few trials you will be able to quickly adjust the plow so that it will require little effort to plow a straight furrow.

DIRT SHIELD: The Dirt Shield is attached to the outer gear housing by the dirt shield braces. Remove the two outer bolts from the gear housing and attach the braces. By bending these braces, you can put the shield in a position to throw the dirt in any manner desired.

LUBRICATION: Notice the oil plug found on top of the gear housing of your plow. This is the only necessary lubrication point. For proper lubrication, you should first drain out the old oil. Then, fill with about one and one-half pints of MOBILUBE C (SAE 140 Gear Oil). GEARED WHEELS: If, when using the tractor with the rubber-tired wheels, it does not have quite enough traction, or the speed is too fast (be sure to use it awhile before deciding this) it is possible to remove the rubber wheels and insert instead gear reduction wheels. These also have more weight, which means greater traction.

PLOWING: In plowing your ground, you run your furrows exactly the same as you would with a turn plow. The greatest difference will be that your ground is completely pulverized instead of just turned over with the hardest work yet to be done.

When using the Tractor with the Sickle Mower, you will quickly decide that it is the easiest machine to handle you have ever operated. However, in using the Rotary Plow, you might at first say just the opposite. But, take our word for it that after you achieve the best adjustments for the job to be done, and have become familiar with the plow, it is just as easy to use as the mower.

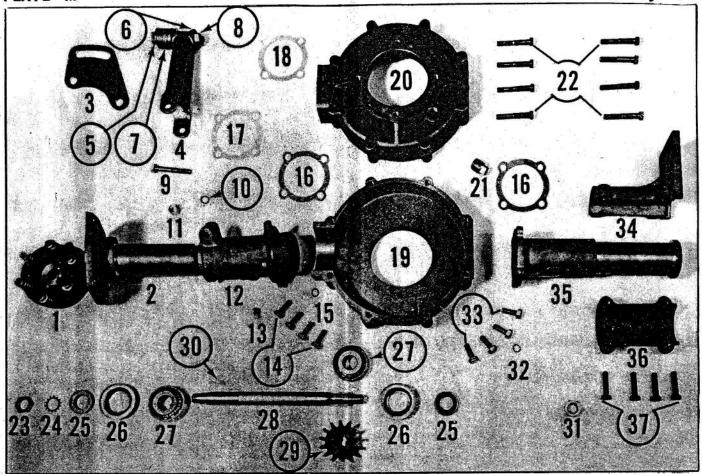
INSTRUCTIONS FOR MOUNTING GEARED WHEELS ON STANDARD TRACTOR

To remove the Standard Wheels, take off the Hub Cap, Wheel, Nut and Cotter Pin. Screw on Knocker furnished with the Wheel Set. Strike several hard blows with a medium heavy hammer until Wheel is loosened. After lifting off Wheel, install Pinion. Then, place completely assembled Geared Wheel on axle housing.

For the next step, take the four, one-half inch cap screws furnished with your wheel, and run them through from the back side of the Axle Housing into the Mounting Plate on your wheel. This will fasten the wheel on securely.

Should you wish to change the position of the wheels, it will be necessary for you to change the position of the axle housing on the Tractor Chassis.

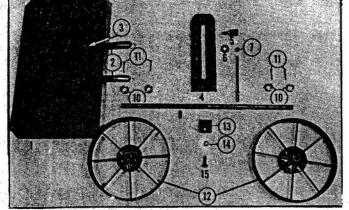
If your Tractor has Rubber-tired Wheels, and you do not get quite enough traction, we can furnish you with a set of tire chains which will tend to increase the Traction. However, the rubber tires with chains are not equal in traction to the Geared Wheels.



,		74 - A.V		OF THE
	PHOTO NO.	NO.	DESCRIPTION	PRICE
	NO.	NO.	DESCRIPTION	THIOL
	1		Slip Clutch Complete	8.15
	2	M 101	Drive Shaft Housing	4.03
	3	A 301	Adjusting Bracket	.36
	4	A 302	Adjusting Handle	.36
	5	172-8	Adjusting Bolt	.14
	6	3213	Adjusting Spacer	.08
	7	410-W	Adjusting Bolt Washer	·OT
	8	211-N	Adjusting Bolt Nut	.05
	9	151-S	Adjusting Handle Bolt	•06
	10	305-W	Adjusting Handle Blt. Lk. Wshr.	
	11	205-N	Adjusting Handle Bolt Nut	.03
	12	M 102	Swivel Casting	3.03
	13	701-P	Swivel Casting Drain Plug	.05
	14	112-8	Swivel Casting Securing Bolt	.05
	15	305-W	Swivel Casting Sec. Blt. Lk. Wshr.	
	16	M 326	Gear Housing Gasket	.05
	17&18	M 139	Bearing Adjusting Shims	
			.005 Bearing Adj. Shim	.07
			.020 Bearing Adj. Shim	.15
		5330	Upper & Lower Gear Housing Set	
	21	702-P	Bevel Gear Housing Plug	•06
	22	151-S	Gear Housing Bolt	.06
	23	1304	Safety Clutch Nut	.12
	24	309-W	Pinion Drive Shaft Lk. Wshr.	.02
	25	L 126	Drive Shaft Oil Seal	.56
		3151	Drive Shaft Oil Seal Retainer	.08
	27	3147	Pinion Drive Shaft Bearing	2.62
	28	M 308	Pinion Drive Shaft	1.21
	29	5309-S	Bevel Pinion Gear	2.86
	30	504-K	Bevel Pinion Gear Woodruff Key	.02
	31	227-N	Pinion Drive Shaft Nut	.18
6	32	305-W	Gear Housing Ext.Blt.Lk. Wshr.	.01
,	33	112-S	Gear Housing Extension Bolt	.05
1	34	5326	Wheel Bracket Swivel	1.79
	35	5331	Gear Housing Extension	4.83
	36	5328	Wheel Bracket Cap	1.25
	37	137-S	Wheel Bracket Swivel Bolt	.04

PLATE N

Rotary Plow



PHO	TO PART		
NO.	The second secon	DESCRIPTION	PRICE
1	5324	Dirt Shield	1.07
2	2703	Dirt Shield Brace	.19
3	121-5	Dirt Shield Brace Bolt	.04
NS	305-W	Brace Bolt Lock Washer	.01
NS	205-N	Dirt Shield Brace Bolt Nut	.03
4	5303	Wheel Bracket	1.98
6	410-W	Wheel Bracket Clamp Screw Washe	r .01
6	5325	Wheel Bracket Clamp	.40
7 8	(This	part is not shown, supersedes	
8	Photo	Numbers 5, 7, and 8)	
9	5311	Depth Wheel Axle	1.09
10	A 374	Axle Thrust Collar	.19
11	603-C	Axle Thrust Collar Cotter Pin	.01
12	5327	Depth Wheel	2.46
13	5304	Axle Clamp	.55
14	308-W	Axle Clamp Bolt Lock Washer	.01
15	152-8	Axle Clamp Bolt	.09

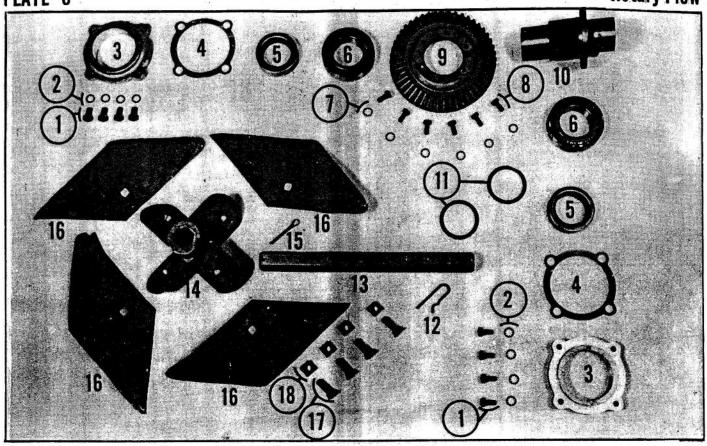


PHOTO	PART	
NO.	NO.	DESCRIPTION PRICE
1	121-5	Housing Bearing Cap Bolt .04
2	305-W	Housing Bearing Cap Blt Lk Wshr .01
3	5308	Housing Bearing Cap 1.96
4	5317	Bearing Adjustment Shims
		.005 Bearing Adjusting Shims .05
1920	<u> </u>	.020 Bearing Adjusting Shims .25
5	5318-A	Gear Housing Oil Seal 1.39
6	2208	Bevel Gear Hub Bearing Comp. 5.21
7	305-W	Bevel Gear Lock Washer .01
8	121-8	Bevel Gear Bolt .04

		- 1 A D	11:1-1-
18		1/2"x 1-1/2"No. 3 Plow Bolt N	ut .02
17		1/2" x 1-1/2"No. 3 Plow Bolt	.08
16	5322	Rotor Spade Cutter	1.21
15	604-C	Rotor Axle Cotter Pin	.02
14	5312	Rotor Spider Hub	3.77
13	5310	Rotor Axle	1.69
12	5310-C	Rotor Axle Depth Adj. Pin	.06
11	5413	Bevel Gear Hub Adjusting Shim	.05
10	5306	Bevel Gear Hub	5.71
9	5315	Bevel Gear	2.95
NO.	NO.	DESCRIPTION	PRICE
PhoTo	PART	989 September 2019 Se	

PLATE P Extension Axle

PHOTO	PART	*	
NO.	NO.	DESCRIPTION	PRICE
1	L 203-B	Extension Housing	4.41
2	L 203-C	Extension Housing Gasket	.03
3 4 5	L 611-A	Extension Axle	3.18
4	L 610	Bearing Complete (Cup & Cone)	2.72
5	L 204-A	Bearing Cap	.87
6	L 221	Bearing Cap Oil Seal	.91
7	126-S	Bearing Cap Bolt	.04
8	304-W	Bearing Cap Lock Washer	.01
9	173-S	Extension Housing Bolt	.09
10	208-N	Extension Housing Nut	.03
NS	308-W	Extension Housing Blt. Lk. Wshi	01

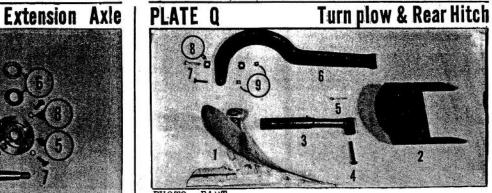


PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE
1		Turn Plow Only	15.00
1 2 3	A 418	Rear Hitch	5.50
3	A 419	Rear Hitch Swivel	2.75
4	A 418-E	Rear Hitch Swivel Pin	.15
5	603-C	Rear Hitch Swivel Pin Cotter	
-		Key	.01
6	A 102	Plow Beam	4.50
7*	-	3/8" x 2 1/2" Plow Bolt	
8#		Plow Beam Corrugated Adj. Ws.	ar.
9*		3/8"Standard Plow Bolt Nut	
10*		3/8"x 2"Plow Bolt	
		Turn Plow Hitch & Beam Comp.	9.00
*Ore	der these	by name. Prices on request	

PLATE R

Gear Reduction Wheels

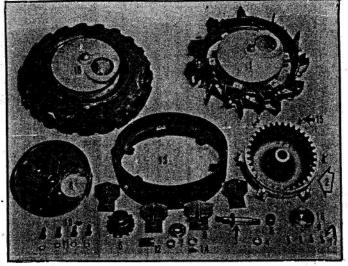


PHOTO			PRICE
NO.	NO.	DESCRIPTION	- PRICE
1		Cleated Geared Wheel Complet	e 35.00
2	L 902	Spider Gear	15.66
3	H 354	Auxillary Axle	4.05
4	222-N	Axle Securing Nut	.12
.5	L 904	Axle Pinion	3.84
6	L 908	Needle Bearing	.69
7	H 358	Bearing	2.04
8	L 901-A	Mounting Plate	8.88
9	2206	Cleat, Cast	.33
10	112-5	Cleat Bolts (For 2206)	.05
11	305-W	Cleat Bolt Lock Washer	.01
12	L 914	Wheel Knocker	.30
13	L 903	Rims	17.79
14	219-N	Bearing Nut	.18
15	111-8	Rim Bolt	.05
NS	305-W	Rim Bolt Lock Washer	.01
16	H 129	Geared Wheel Hub Cap	1.47
17	178-S	Hub Cap Bolt	.08
ns	152-8	Mounting Bolt	.09
ns	308-W	Mounting Bolt Lock Washer	.01
NS	L 907	Cleat, Angle Iron	.21
NS	111-S	Cleat Bolt (For L 907)	.05
18		Rubber Tired Geared Wheel Co	mp.40.00
NS	L 915	Wheel Rim	4.26
NS	L 916	Wheel Rim Bolt	.08
	L 917	Tire With Tube	12.60
		Tire Only	10.50
		Tube Only	2.10
NS	H 128-A	Geared Wheel Hub	15.78
NS	H 129-A	Geared Wheel Hub Cap	1.47
NS	189-S	Hub Cap Screw	.08
NS	152-S	Mounting Bolt	.09
NS	308-W	Mounting Bolt Lock Washer	.01

Note: Photo numbers as follows refer to parts which are the same for both cleated geared wheels and rubber tired wheels: 3, 4, 5, 6, 7, 8, 12, 14.

MODEL L ATTACHMENT ASSEMBLIES

QUANTITY	DESCRIPTION	PRICE
1	Sickle Mower Universal Assy.	
-	Complete, Less Safety Clutch	22.23
n.	Safety Clutch	8.15
·ī	Sulky Hitch	6.27
ว้	Snow Plow Hitch	17.56
1 1 1 1 Pr.	Cart Hitch	6.15
t	Wing Unit Power Take-Off Assy.	12.30
1 Pr.	Wing Unit Universals Complete	32.74
	3" Sickle Mower Guard Ledger	
	Plates (Ea09) Box of 25	1.70
	3" Sickle Mower Guard Ledger	
	Plate Rivets (Ea01) Per Pound	.29
	2" Sickle Mower Guard Ledger	15 152
	Plates (Ea09) Box of 25	1.70

PLATE S

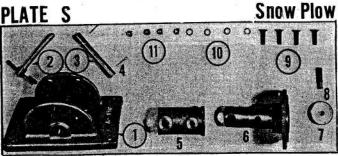
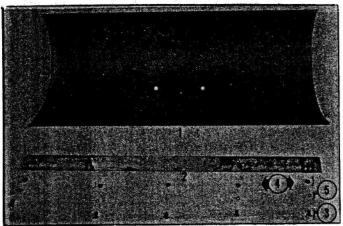


PHOTO NO.	PART NO.	DESCRIPTION	PRICE
1	A 119	Bracket	7.26
2	A 343	Adjusting Bolt and Handle	.75
3	A 332	Knuckle Pin	.75
4	606-C	Cotter Pin	.01
5	A 122	Swivel Casting	3.64
6	M 101	Mounting Stud	4.03
7&8	A 344	Thrust Plug and Pin	.90
	176-8	Bracket Screw and Blade Bolt	.12
10	305-W	Blade Bolt Lock Washer	.01
ii	205-N	Blade Bolt Nut	.03

PLATE T

Snow Plow Blade Assembly



QUANTI	TY	DESCRIPTION 2" Sickle Mower Guard Ledger Plate Rivets (Ea01) Per Pound	PRICE
5	304-W		
4	214-N	Wearing Strip Nut	.01
3	141-S	Wearing Strip Bolt	.02
2	A 334		.05
<u>_</u>		Wearing Strip	4.73
7	A 313	Snow Plow Blade	24.10
PHOTO NO.	PART NO.	DESCRIPTION	PRICE

MODEL L ASSEMBLIES

QUANTITY	DESCRIPTION	PRICE
1	Motor Complete	125.00
ī	Oil Pump Assembly Complete	8.65
ī	Air Cleaner with Fittings	
_	For Change Over *	8.26
1	Carburetor with Fittings For	
	Change Over *	12.80
1	Cylinder Assembly Complete	
-	With Piston And Rings	29.00
1	Fan And Bearing Assy. Comp.	8.18
î	Flywheel Assembly Complete	25.21
1 Set	Motor Gasket	1.11
ī	Magneto Coil	7.50
1 Set	Magneto Points	1.50
ī	Magneto Condensor	1.75
ī	Front Pin Plate Assembly	22.59
î	Rear Pin Plate Assembly	17.06
î	Shipper Shaft Assembly Complete	3.04

From models manufactured prior to 1938.

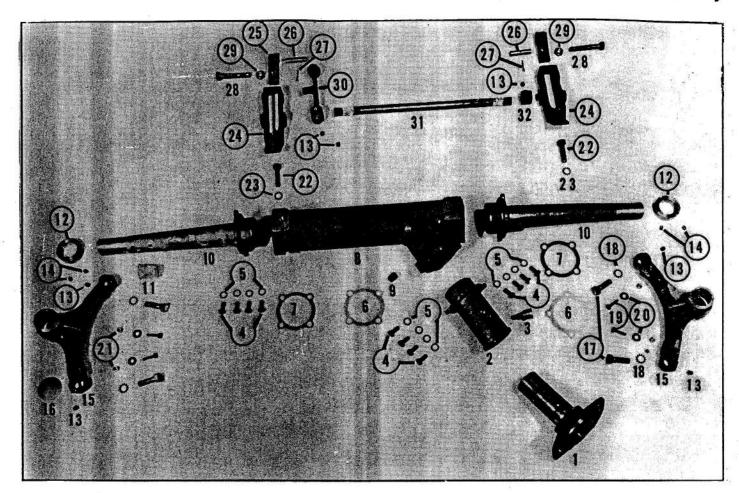


PHOTO	PART		*
NO.	NO.	DESCRIPTION	PRICE
1	M 101	Drive Shaft Housing	4.03
	M 102		3.03
2 3 4 5	M 321		.14
4	121-8		.04
5	305-W	Gear Housing Lock Washer	.01
6	M 139	Gear Housing Shims	
		.005 Housing Adj. Shim	.07
		.020 Housing Adj. Shim	.15
7	M 326	Gear Housing Gasket	.03
8	A 115	Gear Housing	13.31
9	705-P	Gear Housing Plug	.06
10	M 104	Cross Tube	3.39
11	M 332	Cross Tube Plug	.03
12	S 321	Adj. Cross Tube Bracket Spacer	.60
13	801-A	Cross Tube Brkt. Allen Set Scr.	ew .14
	801-A	Swivel Bracket Allen Set Screw	
14	802-A	Thrust Collar Set Screw	.10
15	S 103	Cross Tube Bracket	5.17
16	S 320	Cross Tube Bracket Plug	.03
17	173-S	Tie Rod Cap Screw	.09
18	308-W	Tie Rod Cap Screw Lock Washer	.01
19	177-S	Hex Head Screw	.03
20	401-W	1/4" Flat Washer	.01
21	201-N	Brush Clip Bolt Nut	.02
22	171-8	Lift Bracket Bolt	•08
23	308-W	Lift Bracket Bolt Lock Washer	.01
24	S 106	Lift Bracket	3.11
25	\$ 107	Lift Block	.67
26	S 314	Pivot Pin	.39
27	606-C	Pivot Pin Cotter Key	.01
28	172-S		.14
29	211-N	Adjusting Bolt Nut	.05
30	S 108	Lift Lever	1.17
31	S 304		1.54
32	M 133	Lift Rod Thrust Collar	.24

PLATE V Power Brush Drive Gears

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PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE
1	S 302	Cross Shaft	2.85
1-K	503-K	Cross Shaft Woodruff Key	.02
1-K2	504-K	Bevel Gear Woodruff Key	,02
2	3147	Bearing Assy. (Cone and Cup)	2.62
2-A	M 379	Cross Shaft Outer Bearing	2.95
3	3151	Oil Seal Retainer	.04
4	L 126	Oil Seal	.56
5	A 331	Bevel Gear	3.87
6	219-N	Caster Nut	.18
7	A 330-S	Bevel Pinion (Splined)	8.39
8	3181	Bevel Pinion Adjusting Nut	.15
9	SC 33-S		1.16
10	1304	Drive Shaft Nut	.12
11	218-N	Sprocket Nut	.08
12	M 303	11 Tooth Sprocket	2.11
13	S 309	Drive Chain	5.12

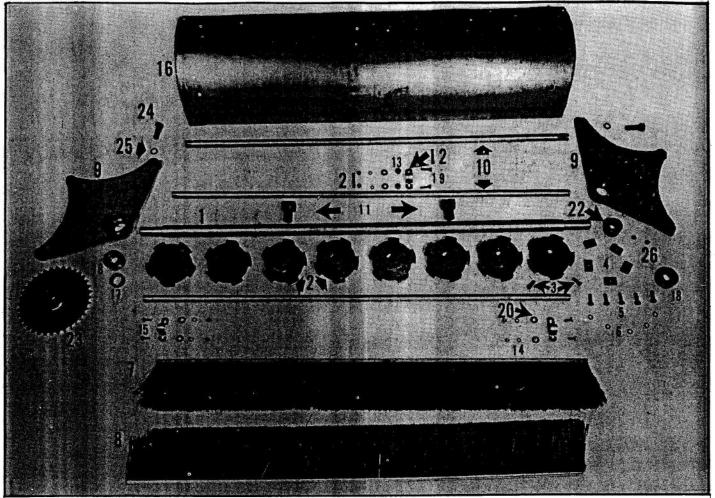


PHOTO NO.	PART NO.	DESCRIPTION	PRICE
1	S 303	Brush Shaft	3.92
	S 101	Brush Spider	2.18
3	801-A	3/8" Spider Set Screw	.14
2 3 4 5 6	S 102	Spider Wedge	.12
5	154-S	Spider Wedge Screw	.04
	304-W	Spider Wedge Screw Lk. Wshr.	.01
7	S 319	Bristle Strip (Coarse)	5.45
8	S 319	Bristle Strip (Fine)	4.60
9	A 116	End Casting	5.21
10	S 301	Tie Rod	1.56
11	M 112	Turn Buckle Tee	.61
12	S 316	Brush Clip	.22
13	214-N	Brush Clip Spacer Nut	.02
14	303-W	Brush Clip Bolt Lock Washer	.01
15	164-S	Brush Clip Bolt	.02
16	S 307	Brush Guard	1.17
17	S 305	Spacing Collar	•68
18	A 338	Brush Shaft Bearing	2.62
19	177-S	Hex Head Screw	.03
20	401-W	1/4" Flat Washer	.01
21	201-N	Brush Clip Bolt Nut	.02
22	S 306	Brush Shaft Thrust Collar	.71
23	\$ 308	36 Tooth Sprocket	4.11
24	173-S	Tie Rod Securing Screw	.09
25	308-W	Tie Rod Sec. Screw Lk. Wshr.	
26	801-A	End Casting Allen Set Screw	.14

SPECIAL INSTRUCTIONS

There are assemblies that are not included in this Parts and Price List Book. These include the Gover-

PLATE X Power Brush Caster Assembly

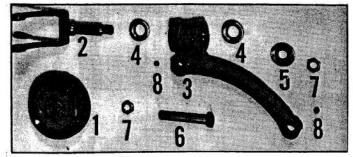


PHOTO			
NO.	NO.	DESCRIPTION	PRICE
1	S 109	Caster Wheel	3.20
2	S 105	Swivel Fork	2.77
3	S 104	Swivel Bracket	3.15
4	A 340	Caster Swivel Bearing	.97
2 3 4 5 6	S 315	Dust Washer	.75
6	S 318	Caster Axle	.60
7	218-N	Sprocket Nut	.08
8	801-A	Cross Tube Bracket Allen Set	
		Screw	.14

nor, Carburetor, and Magneto. Special instructions are available for these and can be obtained by requesting them directly from your dealer.

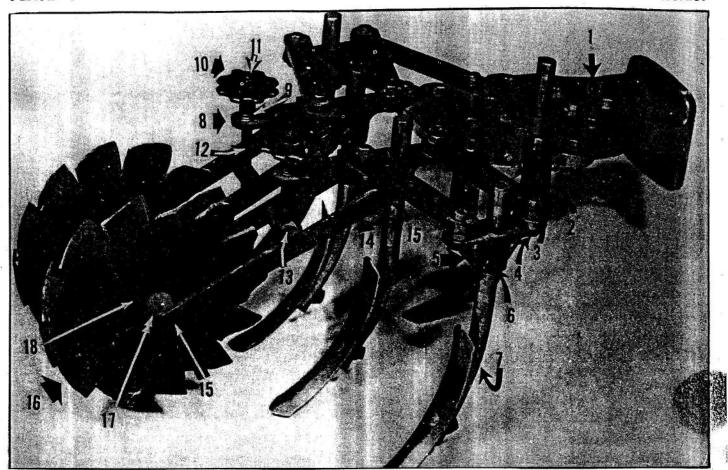


PLATE Z

Riding Sulky

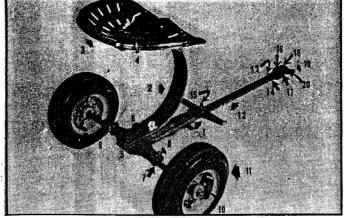


PHOTO	PART		
NO.	NO.	DESCRIPTION	PRICE
ĺ	A 104	Sulky Frame	4.86 1
2	A 303	Seat Spring	3.30
3	A 443-	12 Steel Seat	1.80
4	180-S	Seat Bolt	.07
NS	211-N	Seat Bolt Nut	•05
NS	308-W	Seat Bolt Nut Lock Washer	.01
5	152-S	Spring Bolt	.09
6	211-N	Spring Bolt Nut	•05.
7	A 311	Axle U Bolt	.18
8	214-N	U Bolt Nut	.02
NS	304-W	U Bolt Nut Lock Washer	.01
9	A 310	Axle	2.82
10	219-N	Axle Nut	.18
ii	A 320	Wheel Complete (Each)	11.20
12	A 309	Draw Bar	1.26
13	149-5	Draw Bar Bolt	.06

· ·			
PHOTO	PART		
NQ.	NO.	DESCRIPTION	PRICE
1	5055	Front Tool Holder Frame	6.05
2 3 4	2708	Parallel Bar	.34
3	112-5	Parallel Bar Ext. Bolt	.05
4	205-N	Parallel Bar Bolt Nut	.03
5	2710	Shank Holder	.89
3	2725	Shank Clamp Bolt	.18
SK.	2726	Shank Clamp Nut	.15
NS	602-C	Shank Clamp Bolt Key	.01
7	2712	Tool Shank	.49
NS	2712-A		.49
8	2709	Depth Wheel Bracket	1.82
9	2723	Depth Screw Friction Spring	.20
10	2721	Depth Adj. Knob	.24
11	205-N	Depth Adj. Knob Lock Nut	.03
12	2720	Depth Adj. Screw	.31
NS	403-W	Depth Adj. Screw Washer	•01
13	2724	Depth Adj. Nut	.36
14	2718	Depth Wheel Link	.36
15	2719	Depth Wheel Link Spacer	.18
16	2715	Depth Wheel	1.09
17	2716	Depth Wheel Hub	.72
18	2717	Depth Wheel Rivet	.01
NS	124-S	Screw	.05
NS	205-N	Nut	•03
	400 00	D D D 11 W 1	.02
14	201-N	Draw Bar Bolt Nut	.01
NS	303-W	Draw Bar Bolt Nut Lock Washer	.04
15	126-S	Frame And Draw Bar Cap Screw	1.41
16	A 106	Clevis	.84
17	A 307	Swivel Stud	.02
18	220-N	Pivot Stud Nut	.03
NS	210-N	Pivot Bolt Nut	.03
NS	308-W	Pivot Bolt Nut Lock Washer	.84
NS	A 306	Pivot Bolt	
19	A 304	Bracket	.45
20	1641	Alemite Fitting	09
NS	3197-E	Pivot Stud	.12
NS	305-W	Pivot Stud Bolt Lock Washer	.01
NS	A 305	Pivot Bushing	1.05
NS	L 116	Long Crank Case Attaching Bolt	.14

ROTARY MOWER OPERATING INSTRUCTIONS

A good lawn deserves the best of mowers. Your lawn, no matter how well turfed, or how green and firm, will not be lovely if your mowing is streaked and uneven.

The GRAVELY Rotary Mower Attachment turns your GRAVELY Tractor into the finest mower you can buy. Precision machining, and long testing and development in the field have had one purpose in mind--to give you a lawn mower that will do a professional job on your lawn, with the minimum of care and adjustment.

The GRAVELY Rotary Mower will not streak or scalp your lawn--instead, it will give you a clean, even mowing job every time.

To get the best results with your Mower, read these instructions carefully. The adjustments are simple, but they must be made correctly to insure a good job. The care of your Mower is very important also. Follow these instructions, and your Rotary Mower will last you for many years.

ATTACHING

The GRAVELY Rotary Mower (30 inch center unit) is attached to the Tractor by the use of four bolts in the same manner as all other power attachments.

LUBRICATION

The Swivel Casting (Plate AA Photo No. 8) is equipped with an Alemite Fitting (Plate AA Photo No. 11). It is easily located on the right hand side of the Swivel Casting on the Assembled Unit.

This fitting should be lubricated as needed. A simple rule is to lubricate it before you start your mowing. Use Mobilgrease No. 2.

The Gear Housing (Plate AA Photo No. 17) is found at the center of the Mower. Once a year, remove the Strut (Plate AA Photo No. 25) and drain all the old oil. Replace the Strut, and remove the Gear Housing Plug (Plate AA Photo No. 44) and the Oil Level Pipe Plug on the front of the Strut. (The Oil Level Pipe Plug is not shown, it was added after the photograph was made). Fill the Gear Housing through the Gear Housing Plug hole until oil runs out, or is level with, the bottom of the Oil Level Pipe Plug hole. Use Mobiloil (SAE 140 Gear Oil.) Never use more oil than is needed to fill the Gear Housing to the bottom of the Oil Level Pipe Plug hole. Too much oil will cause overheating and consequent damage to the gears. Be sure to replace both the Gear Housing Plug and the Oil Level Pipe Plug before you start mowing. The position of the Reel Bearing Alemite Fitting is indicated on (Plate BB Photo No. 20). These angle fittings (shown as straight fittings on the plate) should be given a shot of Mobilgrease No. 2 as needed.

There are four alemite fittings on the spacers holding the Rollers in their proper position of the Roller Bar type of reel. Use Mobilgrease No. 2 in these fittings also, and grease as needed to insure free rolling of the Wooden Rollers.

All other bearings and bushings are life lubricated at the factory.

REEL ADJUSTMENT

The Bed Knife Bar should set up close enough to the reel so that it is touching lightly along its entire length. To test this adjustment, use a piece of paper at different points on the Bed Knife, turning the reel with your hand. If the knife cuts the paper cleanly at each point along the Bed Knife Bar, the Reel is in proper adjustment. If the Knife does not cut the paper cleanly, adjustment is made by tightening or loosening the Reel Adjusting Screw (Plate BB Photo 21). To adjust, loosen the Locking Nut (Plate BB Photo No. 22) and turn the screw either left or right. Tightening the screw (turning to the right) will move the reel away from the Bed Knife Bar, loosening the screw will allow it to press firmer against the Bed Knife Bar.

For example, suppose that you are facing the reel, and have tested the cut. You have found that the reel is light on the left side, too heavy on the right. Loosen the lock nut on the left Adjusting Screw, loosen the screw slightly. Then loosen the lock nut on the right, and tighten the right Adjusting Screw lightly. Lock the nuts again. This should give you the proper adjustment all along the reel.

Occasionally the castings will warp very slightly. This condition is common to most castings, unless they have been "seasoned" a long time. To correct this warping, merely reverse lap your reel as described in instructions on REVERSE LAPPING OF THE REEL.

INSTALLATION OF V-BELTS

To install the V-Belts, loosen the Height Adjusting Screw Lock Nut, releasing the Height Adjusting Screw. Then turn the Height Adjusting Screw until it releases the Reel Assembly from the Strut. Raise the Mower slightly and swing the reel backwards (toward the Tractor) until the belts are loose on the rulley. Remove the old belts and replace with the new belts. After the new belts are in place, return Mower to normal position, replace the Height Adjusting Screw and re-adjust the mowing height.

ADJUSTMENT OF V-BELTS

Your mower is equipped with a special V-Belt Adjusting Bolt (Plate BB Photo No. 50). The V-Belts should have one inch of play in them. That is, without forcing, but with firm pressure on one side of the V-Belt, (halfway from each pulley) it should give one inch.

To tighten turn the Belt Adjusting Bolt (Plate BB Photo No. 50) clockwise, to loosen turn the Belt Adjusting Bolt counter-clockwise. When tightening, if the Belt Adjusting Bolt is turned as far as it will go and the belts do not tighten, the belts should be replaced.

REVERSE LAPPING OF THE REEL

The 1949 Rotary Mower has a specially designed reverse.

for lapping the Reel against the Bed Knife. This will eliminate, in many cases, grinding of the Reel. It is advisable to lap the reel in whenever the reel is adjusted against the Bed Knife Bar.

To lap the Reel, loosen the bolt (Plate AA Photo No. 28) on the front of the Gear Housing. This bolt is off center. To reverse the reel, slowly roll the reel back and forth with the hand, pushing the bolt to the opposite side of the housing. This engages the reverse. When it is engaged, tighten the bolt.

Then apply a 60 grit lapping compound to the reel with a paint brush with the attachment running at normal speed. Allow the reel to lap in reverse until the reel makes good contact with the Bed Knife Bar along its entire length.

To put the reel back in forward gear, use the same

procedure as described above, except that you push the bolt to the right.

ADJUSTING THE HEIGHT OF CUT

Cutting height is adjusted by means of the Height Adjusting Screw (Plate AA Photo No. 42), Height Adjusting Screw Nut (Plate AA Photo No. 41), and the Height Adjusting Screw Lock Nut (Plate AA Photo No. 43).

Loosen the Height Adjusting Screw Lock Nut, and turn the Height Adjusting Screw to the right to raise the height of cut, and to the left to lower the height of the cut. When the adjustment suits your requirements, lock the Height Adjusting Screw Lock Nut to hold the adjustment, and you are ready to mow.

GANG MOWER OPERATING INSTRUCTIONS

Large mowing areas deserve the same care and treatment that you give your smaller areas. By attaching two 25 inch Gang Mowing Units to your GRAVELY Rotary Mower, your large lawns can be mowed in a minimum of time. There is no streaking and no scalping with the Gang Units. Like the Rotary Mower, they have Swivel Action which allows them to follow the contour of the ground. They do not depend upon traction for power—they are completely power driven from the tractor.

With the Gang Mowing Units attached to your Rotary Mower, you mow a swath 72 inches in width--and the mowing is done cleanly and evenly.

ASSEMBLY OF GANG MOWING UNITS

Three of the Attaching Units come to you already assembled. These are: the Power Take Off (the Wing Bracket with the Wing Drive Pulleys); the Universal Drive Assembly (the Spacer Shaft, the Universal Disc, the Locking Ring, etc.); and the Leader (attached to the Gang Mowing Unit Tie Rod.)

POWER TAKE OFF

To install the Power Take Off the Center Unit must first be detached from the tractor. This is done so that the Wing Bracket can be fitted to the Swivel Casting on the Center Drive Assembly. Follow these steps closely to install the Power Take Off:

- 1. Detach the Center Unit from the Tractor. Remove the bolt from the Drive Shaft (Plate AA Photo No. 1) and take the Safety Slip Clutch off. Next, remove the Drive Shaft Housing (Plate AA Photo No. 5).
- 2. Loosen the Wing Bracket Nut (Plate CC Photo No. 25) on the Wing Bracket (Plate CC Photo 17). Place the Wing Bracket Securing Key (Plate CC Photo No. 23) in the keyway underneath the Swivel Casting. Fit the Wing Bracket on the machined area of the Swivel Casting (Plate AA Photo No. 8) with the Pulley Assembly in a downward position, and with the Wing Bracket Securing Key in a position so it will fit into the Keyway on the inside ring of the Wing Bracket.

3. Replace the Drive Shaft Housing, the Safety Slip Clutch, and the Drive Shaft Bolt.

This completes the installation of the Power Take Off Assembly. The Center Unit is ready to be attached to the Tractor.

DRIVE PULLEYS AND BELTS

Notice the openings in the Drive Column Housings (Plate AA Photo No. 18) on either side of the Gear Housing (Plate AA Photo No. 17) on the Center Unit. The Inner Wing Drive Pulleys are installed here by:

- 1. Loosen the Height Adjusting Screw Lock Nut (Plate AA Photo No. 43) on the Center Unit. This releases the Height Adjusting Screw (Plate AA Photo No. 42). Turn the Height Adjusting Screw until it releases the Reel Assembly from the Strut (Plate AA Photo No. 25). Lift up on the Drive Column Housing so that the Reel Assembly clears the ground and is free to move. Swing the Reel Assembly backwards, or towards the tractor, until the Drive Belts can be easily removed.
- 2. Remove the Outer Cross Shaft Bearing Retainer Cap Screws (Plate AA Photo No. 35) from the Outer Cross Shaft Retainer (Plate AA Photo No. 35) on the Drive Column Housing (Plate AA Photo No. 18). Pull the Cross Shaft (Plate AA Photo No. 31) out just enough to insert the Inner Wing Drive Pulley (Splined) (Plate CC Photo No. 26) into the opening on the Drive Column Housing. Fit the Inner Wing Drive Pulley with the Wing Drive Belt (Plate CC Photo No. 27) around it to the Splined end of the Cross Shaft.
- 3. Replace the Cross Shaft. Replace the Bearing Cap and Bearing Cap Screws. Replace the Drive Belts on the Outer Drive Pulley, and attach the Height Adjusting Screw to the Strut. (For Height Adjustment refer to Rotary Mower Instructions.)
- 4. Fit the Wing Drive V-Belt to the Wing Drive Pulley (Plate CC Photo No. 22) on the Power Take Off Assembly.

ATTACHING THE LEADER TO THE CENTER UNIT

- 1. Place the Leader Swivel Pivot Stud (Plate CC Photo No. 43) through the Leader Pivot (the side with the Alemite Fitting) (Plate CC Photo No. 41). Also place the Leader Pivot Spacer (Plate CC Photo No. 42) onto the Leader Swivel Pivot Stud.
- 2. Remove the top Tie Rod Bolt (Plate BB Photo No. 32) from the Center Unit. Attach in its place the Leader Swivel Pivot Stud (with the Leader Pivot and the Leader Pivot Spacer).
- 3. Attach the Leader Swivel (Plate CC Photo No. 29) to the Leader Pivot (Plate CC Photo No. 41). Secure together with the Leader Pin (Plate CC Photo No. 33).

ATTACHING UNIVERSAL DRIVE ASSEMBLY TO GANG MOWING UNIT

To fit the Gang Mowing Unit to the Universal Drive Assembly:

- 1. Loosen the Wing Spider Set Screws (Plate CC Photo No. 12) on the Wing Spider (Plate CC Photo No. 11).
- 2. Slip the Wing Spider of the Universal Drive Assembly on the shaft of the Gang Unit Reel (Plate DD Photo No. 21) and tighten the Wing Spider Set Screws.

ATTACHING UNIVERSAL DRIVE ASSEMBLY TO POWER TAKE OFF ASSEMBLY

The next step is to attach the Universal Drive Assembly to the Power Take Off. This is done by:

- 41. Examine each end of the Universal Drive Assembly. Notice the Locking Ring (Plate CC Photo No. 5) on the Spacer Shaft (Plate CC Photo No. 9). The Locking Ring is held in place by the Locking Spring (Plate CC Photo No. 4). Press the Locking Ring on the Universal Assembly back from the end of the Spacer Shaft as far as it will go.
- 2. Place the Locking Ring over the end of the Universal Drive Shaft so that the Locking Balls (Plate CC Photo No. 3) are in line with the holes on the Universal Drive Shaft (Plate CC Photo No. 19). Release the Locking Ring and the Universal Drive Assembly locks to the Universal Drive Shaft.

ADJUSTMENTS

WING DRIVE V-BELTS

These belts running from the Inner Wing Drive Pulleys to the Wing Drive Pulleys are adjusted by moving the Wing Bracket on the Swivel Casting of the Center Unit. To tighten the Belts move the Wing Bracket toward the Attachment Flange on the Drive Shaft Housing, to loosen move the Wing Bracket away from the Attachment Flange.

Proper adjustment of the V-Belts is reached by:

1. Applying firm pressure to the top of the

Belt halfway between the two pulleys.

- 2. If properly adjusted the Belts will give one inch without forcing. If the Belts are too loose or too tight, adjust the Wing Bracket until the Belts, when pressure is applied, will give an inch.
- 3. When proper adjustment is reached, tighten the Wing Bracket Nut (Plate CC Photo No. 25) on the Wing Bracket.

It is very important that these belts be properly adjusted at all times.

LEADER

To get the best results from your Gang Mowing Units it is essential that the Leader be adjusted properly. When the Leader has been attached to the Center Unit and the Universal Assembly has been connected to the Power Take Off, the Gang Mowing Unit should be paralel with the Center Unit. If it is not, make the following adjustment:

Loosen the Leader Adjusting Bracket Thrust Collar Set Screws (Plate CC Photo No. 40) on the Leader Adjusting Bracket Thrust Collar (Plate CC Photo No. 39). This allows the Leader to move freely on the Gang Mowing Unit Tie Rod (Plate DD Photo No. 25). The Leader Adjusting Bracket (Plate CC Photo No. 36) is moved by tapping lightly with a hammer.

Move the Gang Mowing Unit so that it is parallel with the Center Unit. Place the Thrust Collars against the arms of the Leader, secure the Leader in position by tightening the Thrust Collar Set Screws.

Remember -- a Gang Mowing Unit that is not running parallel with the Center Unit will not operate properly.

MOWING HEIGHT

The Mowing Height for the Gang Mowing Units should be adjusted to the same height of the Center Unit. To make this adjustment:

- 1. Locate the Wing Height Adjusting Screw (Plate CC Photo No. 37) and the Wing Height Adjusting Lock Nut (Plate CC Photo No. 38) on the Leader Adjusting Bracket (Plate CC Photo No. 36).
- 2. Loosen the Wing Height Adjusting Lock Nut.
- 3. To increase the Mowing Height turn the Wing Height Adjusting Screw clock-wise. To decrease the Mowing Height turn the Wing Height Adjusting Screw counter-clockwise.
- 4. When the Gang Unit is adjusted to the desired Mowing Height, lock the Wing Height Adjusting Screw by tightening the Wing Height Adjusting Lock Nut.

LUBRICATION

REEL

(Same as for Center Unit)

ROLLER

(Same as for Center Unit)

LEADER

There are two points of lubrication on the Leader Assembly. One is the Alemite Fitting on the Leader Swivel (Plate CC Photo No. 31), the other is the Alemite Fitting on the Leader Pivot (Plate CC Photo No. NS). These should be lubricated as needed with Mobilgrease No. 2

WING DRIVE SHAFT

The Wing Drive Shaft Bearings are permanently sealed in oil and therefore require no lubrication.

REVERSE LAPPING OF THE GANG REEL

Sharpen the Gang Mowing Unit Reels at the same time the Center Unit Reel is sharpened. By reversing the Center Unit Reel (as described in the Rotary Mower Instructions) the Gang Mowing Unit Reels are also reversed. They are sharpened in the same manner as the Center Unit Reel.

TRANSPORTING THE GANG MOWING UNITS

Taking the Mowers from one job to another does not require completely detaching the Gang Units from the Center Unit.

Remove the Locking Ring on the Universal Drive Assembly from the Power Take Off. This is done by pressing the Locking Ring away from the Power Take Off. This frees the Locking Balls and allows the Universal Drive Assembly to slip away from the Power Take Off. Follow this procedure for both Gang Mowing Units.

With the Universal Assemblies detached, lift up on the Unit, turn it so that the loose Universal Assembly will be at the front of the Center Unit. Place it on the Center Unit so that the Roller Bar on the Gang Mowing Unit will rest on the Drive Column Housing. Follow this procedure for both Gang Mowing Units and the mowers are ready to be transported.

PLATE AA

Rotary Mower Drive Assembly

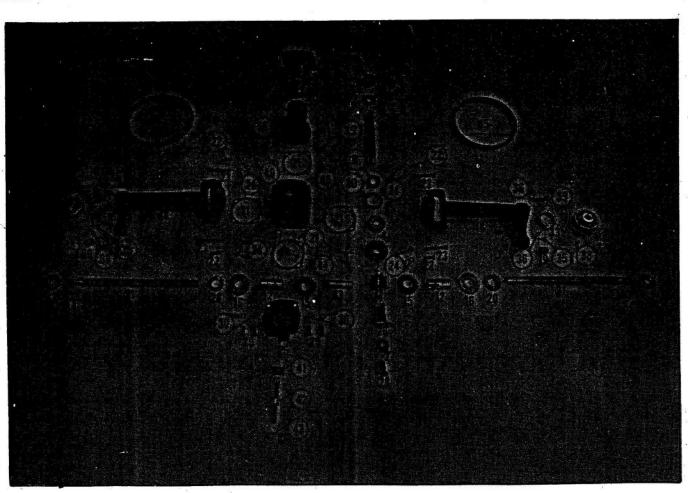
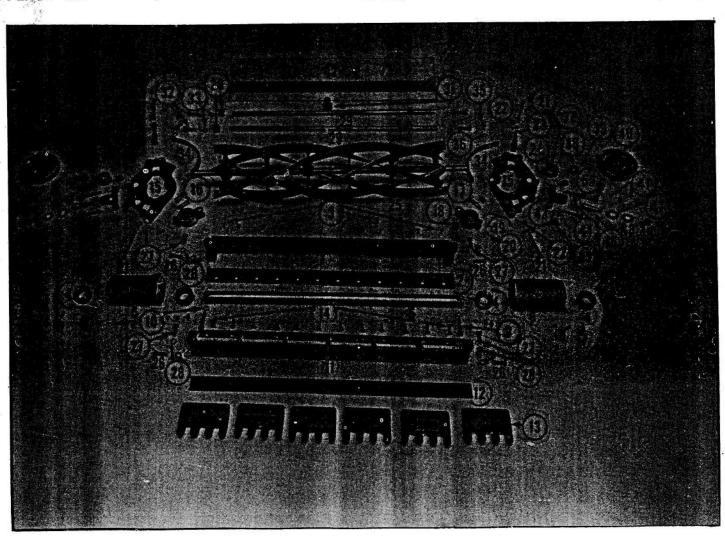


PHOTO NO.	PART NO.	DESCRIPTION	PRICE	PHO TO	PART NO.	DESCRIPTION	PRICE
	W 445	Drive Shaft	2.08	24	305-W	Gear Housing Bolt, Lock Washer	.01
1	M 445		5.52	25	M 153	Strut	2.41
2 3	M 440	Bevel Gear	.02	NS	701-P	Strut Oil Level Plug	.05
3	M 489	Bevel Gear Rivet	1.08	26	M 164	Shifting Fork	2.11
4	L 610	Drive Shaft Bearing Cone	1.64	27	410-W	Shifting Fork Bolt Flat Washer	.01
_	M 478	Drive Shaft Bearing Cup	4.03	28	152-S	Shifting Fork Bolt	.09
5	M 150	Drive Shaft Housing		29	110-8	Strut Bolt	.05
6	M 459	Outer Drive Shaft Bearing Seal	2.62	30	305-W	Strut Bolt Lock Washer	.01
7	3147	Drive Shaft Bearing Complete	3.99	31	M 446	Cross Shaft	1.50
8	M 151	Swivel Casting		32	M 323	Outer Cross Shaft Bearing	2.75
	M 460	Inner Drive Shaft Bearing Seal	1.00	33	M 158	Outer Cross Shaft Brg. Retainer	
* 10	M 443	Inner Drive Shaft Bearing	3.60	34	504-K	[일하다 15 전:	.02
		Spacer	.17	35	177-S	Outer Cross Shaft Brg. Retainer	
11	M 480	Swivel Casting Alemite Fitting	.09	33	1//-5	Cap Screw	.03
12	M 439	Driving Socket	1.50	36	303-W	Outer Cross Shaft Brg. Retainer	
13	M 485	Cross Tube	.60	36	303-M	Cap Screw Lock Washer	.01
14	M 438	Driving Dog	3,60	7.5	¥ 3.77	Outer Drive Pulley (3")	.99
15	M 441	Bevel Pinion	4.95	37	M 137		.14
16	M 458	Inner Cross Shaft Bearing	3.25	38	801-A	Outer Drive Pulley Set Screw	.05
17	M 152	Gear Housing	6.50	39	110-S		
18	M 156	Drive Column Housing	5.15	40	305-W	Gear Housing Bolt Lock Washer	.01
19	M 502	Pivot Stud Bearing Bushing	.18	.41	M 356	Height Adjusting Screw Nut	.28
20	M 465	Cross Shaft Bearing Seal	.90	42	M 352	Height Adjusting Screw	.45
21	M 488	Gear Housing Gasket	.04	43	211-N	Height Adjusting Screw Lk. Nut	.05
22	110-8	Gear Housing Bolt, Short	.05	44	702-P		.06
23	192-S	Gear Housing Bolt, Long	.09	NS 45	701-P M 475	Oil Level Pipe Plug Drive Belt	.05 .80

*This is to be discontinued September 1.

PLATE BB

Rotary Mower Center Unit Reel Assembly



Page 28

PHOTO	PART NO.	DESCRIPTION	PRICE	PHOTO NO.	PART NO.	DESCRIPTION	PRICE
1 2 3 4	175-S M 513	Bed Knife Bar, Roller Type Bed Knife Steel 30", Roller Type Bed Knife Screw Roller Thrust Collar	1.90 .01 .70	25 26 27 28 29 30	M 339 112-S 111-S 305-W M 508 M 510	Reel Bed Knife Bar Bolt, Long Bed Knife Bar Bolt, Short Bed Knife Bar Bolt Lock Washer Long Tie Rod . Tie Rod Adjusting Nut	32.84 .05 .05 .01 1.20
4 5 6 7 8 9 10	M 506 M 448 M 480 801-A 124-S 305-W M 121	Long Roller Bar Roller, Wood Roller Alemite Fitting Roller Thrust Collar Set Screw Roller Bar Bolt Roller Bar Bolt Lock Washer Bed Knife Bar, Skid Type	05	31 32 33 34 35 36	M 112-A 173-S 308-W M 512 121-S 305-W M 379	Turn Buckle Tee Tie Rod Bolt Tie Rod Bolt Lock Washer Skid Skid Bolt Skid Bolt Lock Washer Reel Bearing	.61 .09 .01 .45 .04 .01 2.95
12 13 14 15 16 17	M 353 M 123 141-S M 172 M 359 M 360	Bed Knife Steel 30", Skid Type Bed Knife Bar Skid Bed Knife Bar Skid Bolt End Casting Pivot Bushing Pivot Pin Reel Bearing Housing	3,28 .73 .05 4,90 .15 .20 2,12	37 38 39 40 41 42 43	M 362 504-K M 428 801-A M 470 M 159	Pulley Spacer Pulley Locking Key (Woodruff) Reel Drive Pulley (5") Pulley Set Screw- Reel Guard Vee Belt Adjusting Bracket	.15 .02 1.45 .14 .90
18 19 20 21 22 23	M 120 607-C 6013 M 351 220-N M 511	Pivot Cotter Pin Reel Bearing Hsg. Alemite Fitting Reel Adjusting Screw Reel Adjusting Screw Lock Nut Reel Adjusting Spring Thimble	.01 .12 .18 .02 .30	44 45 46 47 48 49	151-S 228-N M 500 M 501 410-W 208-N	Vee Belt Adjusting Bracket Bol Vee Belt Adj. Bracket Bolt Elastic Stop Nut Pivot Stud Pivot Stud Thrust Collar Thrust Collar Flat Washer Pivot Stud Securing Nut	.14 .45 .07 .01
24	2723	Reel Adjusting Spring		50	185-S	Belt Adjusting Bolt	.05

PLATE CC

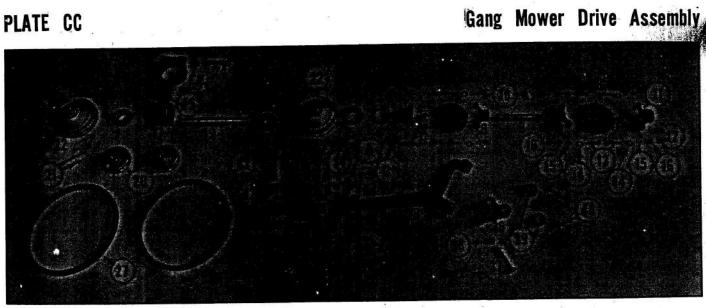
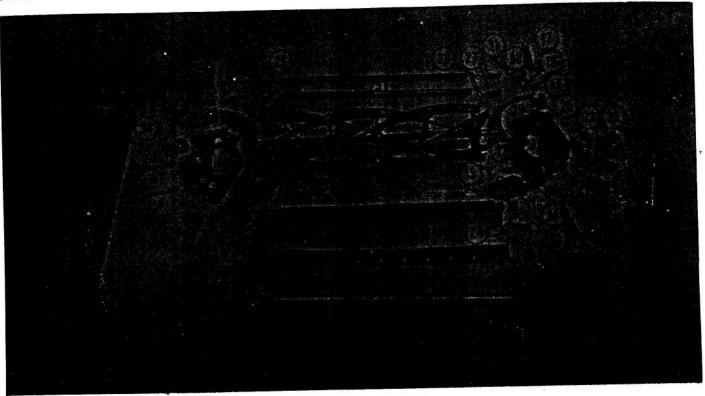


PHOTO NO.	PART NO.	DESCRIPTION	PRICE	PHOTO NO.	PART NO.	DESCRIPTION PRICE
1	M 343-A	Take Off Spider	2.40	15	303-W	Universal Disc Lock Washer .01
2		Short Core Plug	.20	16	201-N	Universal Disc Nut .02
3		Locking Ball	.03	17	M 154	Wing Bracket 4.50
3 4		Locking Spring	.15	18	M 457	Wing Drive Shaft Bearing 2.95
5		Locking Ring	1.20	19	M 435	Universal Drive Shaft 2.90
6		Locking Ring Stop	.03	20	504-K	Wing Drive Pulley Key (Woodruff) .02
7		Universal Disc	.66	21	801-A	Wing Drive Pulley Set Screw .14
8		Center Spider	1.95	22	M 155	Wing Drive Pulley (5") 2.75
9		Spacer Shaft	.95	23	508-K	Wing Bracket Securing Key
		Spacer Shaft Rivet	.03	(97)(5)(ACCOUNT OF THE	(Woodruff) .02
10			2.40	24	184-8	Wing Bracket Bolt .13
11		Wing Spider	.14	25	220-N	Wing Bracket Nut .02
12	801-A	Wing Spider Set Screw			M 430	Inner Wing Drive Pulley (5")
13 14	193-S 401-W	Universal Disc Bolt Universal Disc Flat Washer	.03	26	п 430	(Splined) i.10

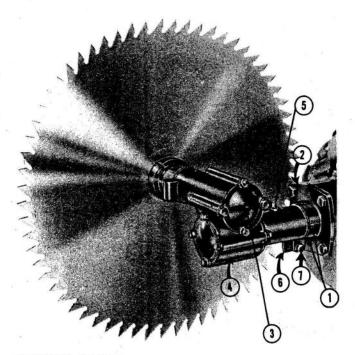
PHOTO	PART NO.	DESCRIPTION	PRICE	PHOTO NO.	PART NO.	DESCRIPTION	RICE
27 28	M 475 M 128	Wing Drive Vee Belt Leader Leader Swivel	.80 2.40 1.35	37 38 39	124-S 205-N M 133	Wing Height Adjusting Screw Wing Height Adjusting Lock Nut Leader Adjusting Bracket Thrust Collar	.05
29 30 31	M 127 M 348 1641	Leader Swivel Stud Leader Swivel Alemite Fitting	.60	40	801-A	Leader Adjusting Bracket Thrust Collar Set Screw	.14
32 33 34 35 36	M 505 M 349 M 383 202-N M 129	Leader Pin Chain Leader Pin Leader Clamp Bolt Leader Clamp Bolt Nut Leader Adjusting Bracket	.06 .60 .10 .02	41 NS 42 43	M 126 1641 M 487 M 486	Leader Pivot Leader Pivot Alemite Fitting Leader Pivot Spacer Leader Swivel Pivot Stud	.73 .06 .19

PLATE DD

Gang Mower Reel Assembly



	7. 100		60				
PHOTO	PART NO.	DESCRIPTION	PRICE	PHOTO NO.	PART .	DESCRIPTION	PRICE
NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	M 135	Bed Knife Bar (25") Bed Knife Steel (25") Bed Knife Screw Roller Thrust Collar Roller Bar (25") Roller, Wood Roller Alemite Fitting Roller Thrust Collar Set Screw Roller Bar Bolt Roller Bar Bolt Roller Bar Bolt Lock Washer End Casting Pivot Bushing Reel Bearing Housing Pivot Pin Pivot Cotter Pin Reel Bearing Housing Alemite Fitting Reel Adjusting Screw	9.30 1.60 .01 .70 1.35 1.20 .09 .14 .05 .01 4.90 .15 2.12 .20	20 21 22 23 24 25 26 27 28 29 30 31 32 33 NS	M 343-I M 340-I 112-S 111-S 305-W M 509 M 510 173-S 308-W M 512 121-S 305-W M 379 M 361 801-A	Real Adjusting Spring	.15 29.55 .05 .05 .01 1.00 .12 .09 .01 .45 .01 2.95 .60
17 18	220-N M 511	Reel Adjusting Lock Nut Reel Adjusting Thimble	.02	36 37	137-S 228-N	Reel Guard Nut	.14



ROTARY SAW

The GRAVELY Rotary Saw Attachment is a power driven circular type saw for the GRAVELY Tractor. It is portable, and capable of cutting and felling timber more than 18 inches thick.

The Blade is of Silver Steel, Grade A, the finest money can buy. It is a high speed Saw Blade, which means that it will last longer, hold the cutting edge longer, and will not warp, wobble or crack.

It is file temper for easy sharpening in the field. The Blade is 26 inches in diameter. The saw has two positions, horizontal and vertical.

ATTACHING

The GRAVELY Rotary Saw is attached to the GRAVELY TRACTOR by four bolts, in the same manner as all other GRAVELY Power Attachments.

When you fit the Drive Shaft Housing (Photo No. 2) to the tractor, be sure that one of the keyways (Photo No. 1) is underneath and one on the right side as you face the tractor from the front.

LUBRICATION

The saw must be in the horizontal position when you lubricate it. This will make the Gear Housing Cap (Photo No. 3) on the Spiral Gear Housing (Photo No. 4) level. Remove this Cap by loosening the four bolts. Fill to one-third full of Mobilube C (SAE 140 Gear Oil). Replace the Gear Housing Cap and Bolts.

The only other point of lubrication is the Pipe Plug (Photo No. 5) on the Swivel Casting. This should receive a little Mobilgrease No. 2 occasionally, to lubricate the Swivel.

Periodically remove the Gear Housing Cap and check the oil. It is wise to do this every day before you start to work.

CARE OF THE SAW BLADE

When your saw is not in use, store it in a dry place. Coat the blade with a rust preventive when you store it, otherwise the rust will pit the Saw Blade, reducing its efficiency. A good coating when storing the Blade for any length of time is Mobilgrease No. 2.

Be sure the Blade is dry, then coat it thickly with the Mobilgrease No. 2.

If you use your Saw a great deal, eventually you will have to have it sharpened and set. We recommend that you take your Saw Blade to your GRAVELY Dealer. If he is not set up to sharpen and set your Saw, he can recommend a Saw Sharpening establishment where you can be assured of good work.

Simple rules to save your Saw Blade and increase its life are: 1. Keep it out of dirt and rocks. 2. Give your Saw a rest once in a while. Sawing gets your Saw Blade hot, and you should let it cool down occasionally. 3. Keep it free from rust, stored out of the weather.

CHANGING SAW POSITION

When the Saw Blade is locked in position, only the flat side of the Index Key (Photo No. 6) is visible. To change position of the Blade, loosen the Clamp Bolt (Photo No. 7) and turn the Index Key until the entire rounded edge shows. The Blade is now unlocked and free to move to the other position.

CAUTION

Always have the Attachment either blocked or held firmly when you are changing from one position to the other. Because the Attachment, when the Index Key is released, will swing freely unless you have a firm grip on it. Keep it under control or you may hurt yourself or cause the Saw to be damaged.

When you have the Index Key and the Keyway in the Drive Shaft Housing lined up, turn the Index Key until only the flat side shows, and the Saw is locked. Then TIGHTEN THE CLAMP BOLT TO LOCK THE INDEX KEY, AND ALSO LOCK THE HOUSING TO THE SWIVEL SO THE SAW HOUSING WILL NOT VIBRATE.

SAW SPEED

Maximum efficiency of the Saw is attained when it is rotating at approximately 1400 RPM. This means that when sawing, the engine should be operating close to wide open in high gear.

ENGAGING THE SAW

Start the tractor motor and set the throttle at idling speed. Engage the Saw by means of the Attachment Clutch Lever on the Advance (front) Casting on the tractor.

FELLING TIMBER

The Saw Blade is used in the horizontal position. Maneuver the Tractor so that the side of the Saw Blade will make contact with the timber to be felled.

The Wheels of the tractor will act as a pivot. Have only the attachment in gear, and then use the handles as levers and engage the Saw with the timber.

When pressure is applied to the Tractor handles, one wheel will move slightly while the other wheel remains stationary.

That is, the wheel nearest the timber will remain stationary, while the other wheel will move. Sometimes you may find that this works best if a block of wood or a stone is placed to "chock" the wheel nearest the tree.

If contact is made too swiftly, you will bind the blade. Make the contact slowly and gradually, let the Saw eat its way through the timber, do not attempt to force it through. If the Saw begins to slow down, back it out a little to allow it to attain its speed again and then re-apply your light but steady pres-

sure.

Do not move the tractor handles up and down, or you will bind the Saw.

You can cut timber up to eight or nine inches in diameter in one cut. However, you should have either a helper to guide the tree, or a heavy pole or rope to keep the tree from falling toward you while you are felling, or you will bind the blade. Caution should be used whenever you are felling timber of any size:

Timber larger than nine inches is felled by making several cuts, depending on the size of the timber. If it is a very large tree, it may be necessary to make a cut on all four sides, although ordinarily a cut on each side of the timber is all that is necessary.

Remember that to fell a tree in a given direction, the cut on that side must be lower. On a large tree, it is sometimes best to make two cuts on one side of the timber, about three inches apart. Then take an axe and knock out the wood between the cuts. Then when the cut is made on the other side of the tree, the tree will fall in the direction of the notch.

Be careful, watch for Kick-Backs (a Kick-Back is the tree butt kicking back toward you when the tree is falling. This is rare, but should be watched for.) Also be careful in windy weather that a sudden gust of wind doesn't change the direction of fall.

* TRIMMING

To trim, place the Saw Blade in the Vertical Position.

The best procedure is to push down on the tractor handles, thus raising the Saw up, over the work. Then raise the tractor handles gradually, letting the Saw work down through the wood. This same precedure is used when sawing the trimmed timber into lengths.

CLEARING LAND

The Saw has proved very effective in clearing land of brush and saplings. The Saw must be in the horizontal position, of course.

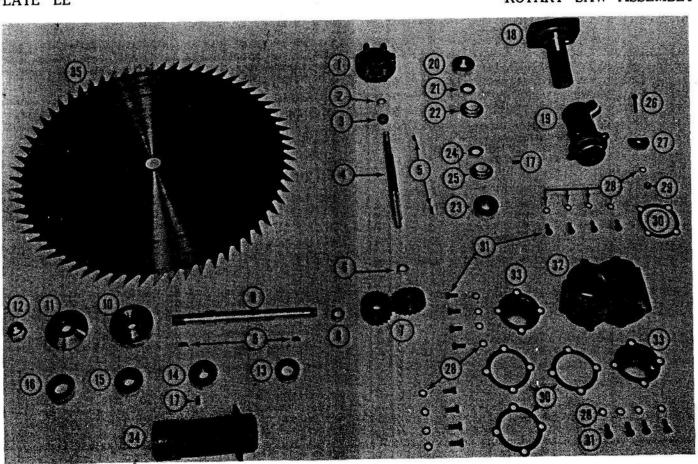
The best procedure is to cut an initial path around the area to be cleared. This will be the slowest part of your job, because the Saw is not as wide as the tractor wheels. It will be necessary to cut slowly until you have this initial path cleared. After that, it is simply a matter of walking behind the tractor as the Saw does the work.

You should make sure that the brush and other material falls away from the area in which you will cut the next time. This can be done conveniently if you have another man to help you. If not, you will find it best to move the brush to the right, away from your next cut, as you go along.

By lowering or raising the tractor handles you regulate the distance from the ground that you cut the brush and saplings. You should be sure, however, that the stumps of the saplings are cut close to the ground, not more than four inches above the ground. This is so the chassis will clear the stumps.

PLATE EE

ROTARY SAW ASSEMBLY



PLAT	E EE	ROTARY SAW	ASSEMBLY				
PHOTO	PART			18	M 101-S	Drive Shaft Housing	4.03
NO.	NO.	DESCRIPTION	PRICE	19	M 102-S	Swivel Casting	3.03
	955			20	3147	Bearing Cone & Cup	2000
1		Slip Clutch Complete	8.15	21	L 126	Oil Seal	2.62
2	1304	Drive Shaft Nut	.12	22	3151	011 Seal Retainer	.56
3	309-W	Lockwasher	.02	23	3147	Bearing Cone & Cup	.04
4	M 308	Drive Shaft, Tapered	1.21	24	L 126	011 Seal	2.62
5	504-K	Woodruff Key		25	3151		.56
6	227-N	Drive Shaft Lock Nut	.02			Oil Seal Retainer	.04
7	M 318	Spiral Gear	.18	26	124-8	Clamp Bolt	.05
ė	229-N		3.30	27	A 451	Index Key	.80
8	A 447	Saw Arbor Lock Nut	.22	28	305-W	Lockwashers	.01
10	A 448	Saw Arbor	4.20	. 29	205-N	Clamp Bolt Nut	.03
		Inner Collar	1.90	30	M 326	Gear Housing Gaskets	.05
11	A 449	Outer Collar	1.65	31	121-S	Gear Housing Bolt	.04
12	230-N	Saw Collar Lock Nut	.45	32	M 103	Gear Housing	8.40
13	M 459	Oil Seal	.90	33	M 306	Gear Housing Cap	.35
14	3147	Bearing Cone & Cup	2.62	34	A 137	Saw Arbor Housing	3.90
15	A 454	Bearing Cone & Cup	2.62	35	A 453	High Speed Saw Blade	30.00
16	A 452	Oil Seal	1.50	NS	M 139	Housing Adj. Shims .005"	.07
17	701-P	Pipe Plug	.05	NS	M 139	Housing Adj. Shims .020"	.15

VISO FARM IMPLEMENT CO.

124 PARIS AVE.

WEST TERRE HAUTE, IND.

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