

INSTRUCTIONS
FOR SETTING UP AND OPERATING THE
McCORMICK-DEERING
No. 7 and Big 7 Mowers

No. 7 Vertical Lift, $4\frac{1}{2}$ and 5 Ft.

No. 7 Regular Lift, $4\frac{1}{2}$ and 5 Ft.

Big 7 Regular Lift, $4\frac{1}{2}$, 5, 6 and 7 Ft.

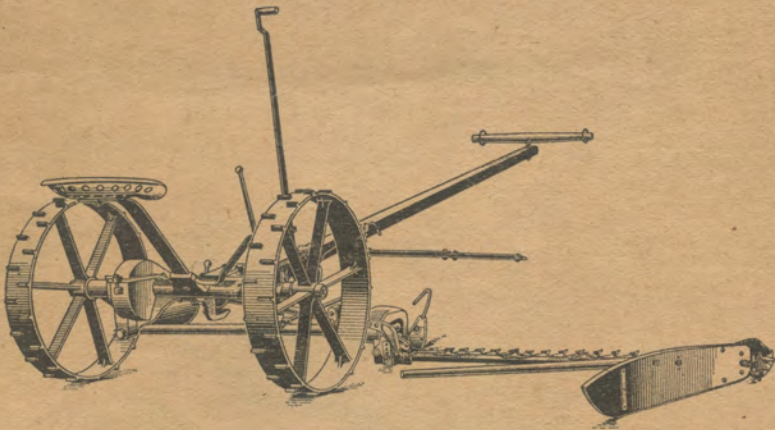


Illustration No. 1

WITH LIST AND ILLUSTRATIONS OF REPAIR PARTS

MANUFACTURED BY

INTERNATIONAL HARVESTER COMPANY
(INCORPORATED)

606 So. MICHIGAN AVE.

CHICAGO, U. S. A.

INSTRUCTIONS FOR SETTING UP

Remove all wires and arrange parts conveniently.

Oil all bearings and moving parts as you proceed and see that they work freely.

All bolts must be used in the holes in which they are found or in parts to which they are attached, unless otherwise shown.

Shaded portions in the illustrations show parts to be assembled; these must be placed on machine in the order numbered.

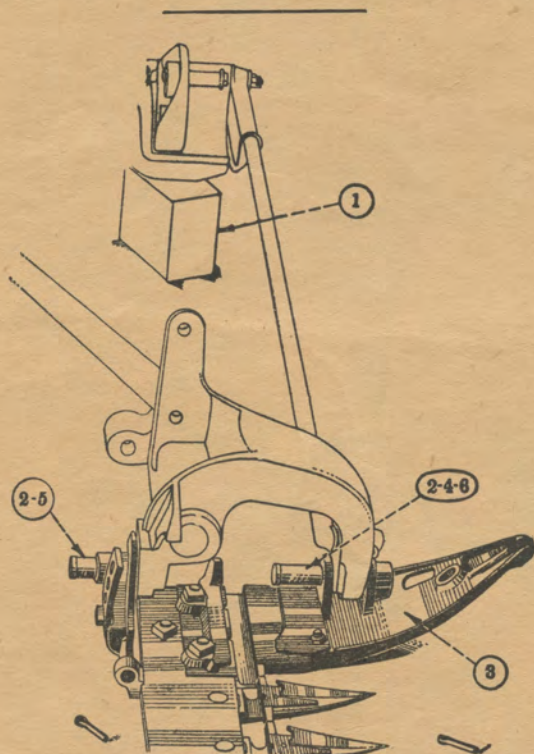


Illustration No. 2—Attaching cutter bar (inner shoe and hinge pins).

1. Prop up frame so crankshaft is level.
2. Remove hinge pins from inner shoe; scrape off the paint and oil them.
3. Connect inner shoe to shoe-hinge.
4. Replace front pin first, *but do not drive it in all the way.*
5. Replace rear pin and secure with cotter.
6. Drive front pin to place and secure with cotter.

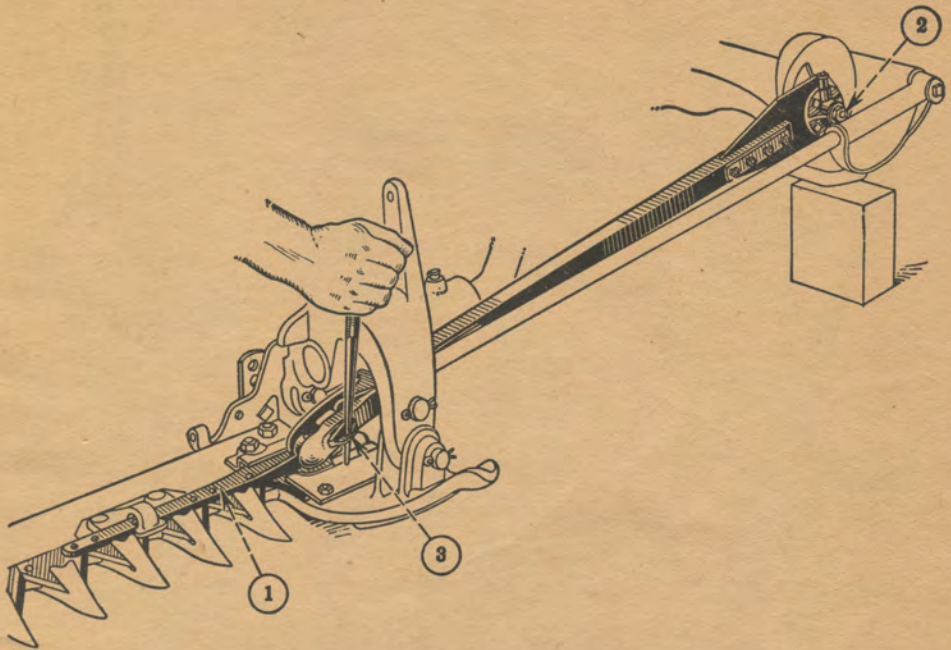


Illustration No. 3—Connecting pitman and knife.

1. Put knife in place, oil and move back and forth until it runs freely.
2. Attach pitman to wrist pin.
3. Attach pitman to knife head.

The knife head connection of this pitman is entirely automatic. As fast as any wear develops, it is immediately taken up by the spring pressure *without any attention* on the operator's part. This pitman may be easily and quickly attached to or removed from knife head without a wrench.

To attach pitman:—Press fork handle between straps and hold over knife head ball as shown *in illustration No. 3A*. Press pitman down until straps partly close on ball, then fold handle back against pitman.



Illustration No. 3A



Illustration No. 3B

To remove pitman:—Turn fork handle away from pitman with punch and then press on outer end of handle with foot. (See illustrations Nos. 3B and 3C.)



Illustration No. 3C

NOTE: Main wheel has been removed to show the tilting lever, quadrant, etc., more clearly.

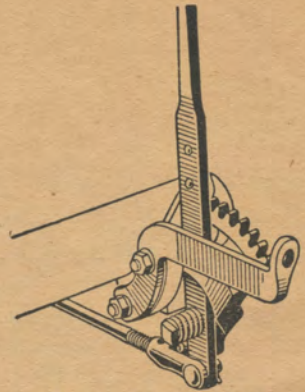


Illustration No. 4A
Rear view.

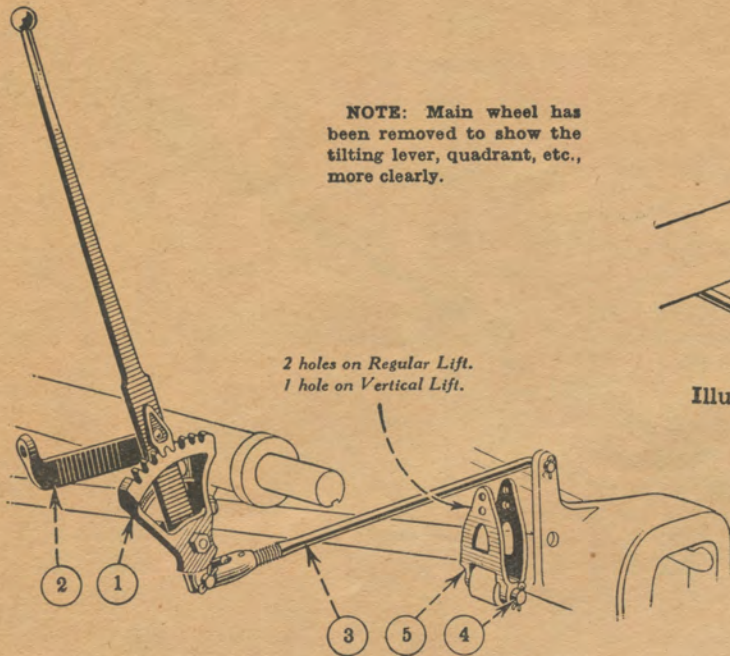
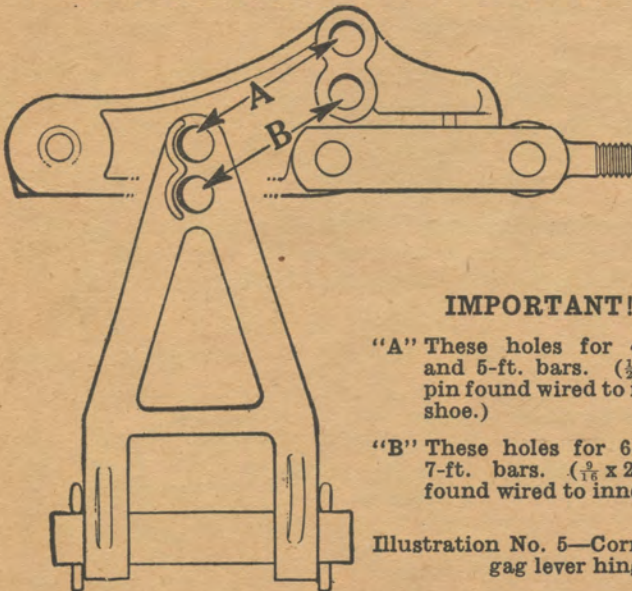


Illustration No. 4
Method of assembling tilting lever and quadrant; gag lever hinge.

1. Attach tilting lever quadrant (complete with tilting lever) to right side of lug on main frame.
2. Attach lifting spring connection, rear, to left side of lug on main frame.
3. Hook tilting rod into shoe hinge and secure to tilting lever by pin found in casting.
4. Remove gag hinge pin from gag lever hinge, scrape off the paint, and oil the pin.
5. Connect gag lever hinge to lug on inner shoe hinge by pin removed from hinge.

Attach at the same time.



IMPORTANT!

“A” These holes for 4½-ft. and 5-ft. bars. ($\frac{3}{8} \times 2\frac{3}{4}$ ” pin found wired to inner shoe.)

“B” These holes for 6-ft. and 7-ft. bars. ($\frac{9}{16} \times 2\frac{1}{8}$ ” pin found wired to inner shoe.)

Illustration No. 5—Correct method of assembling gag lever hinge and gag lever.

Regular Lift and Vertical Lift

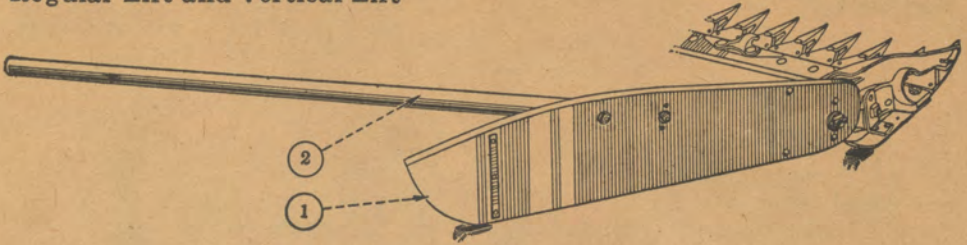
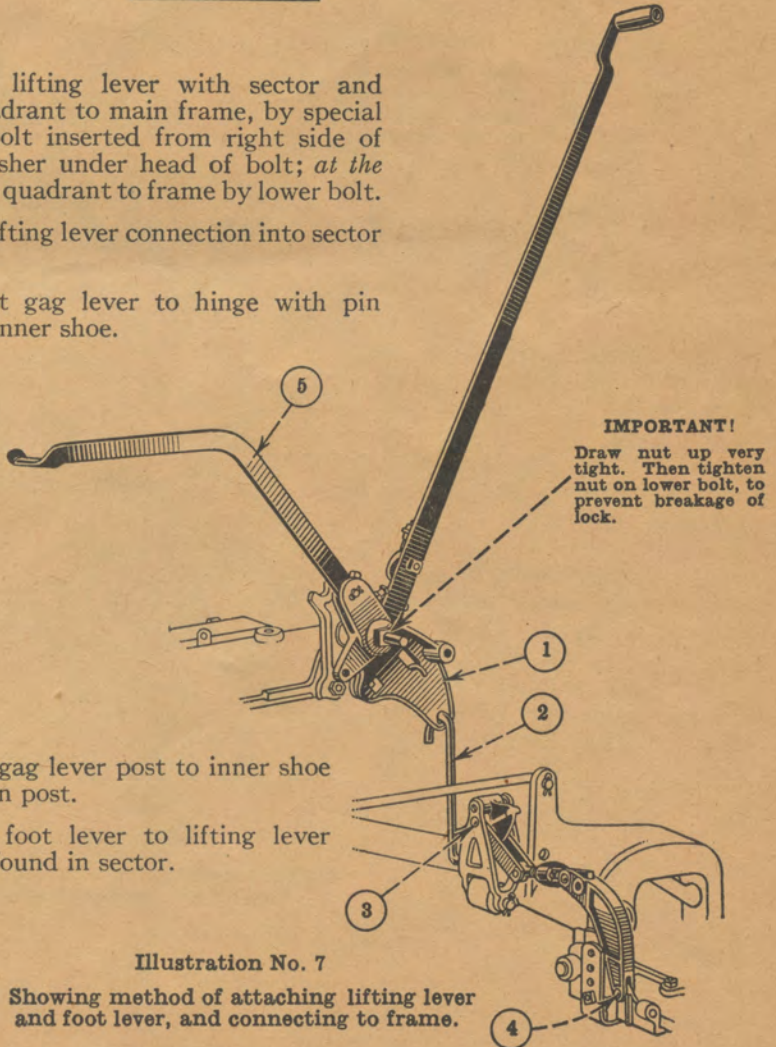


Illustration No. 6

1. Attach grass board to outer shoe.
2. Attach grass stick to *inner side* of grass board.

Regular Lift

1. Attach lifting lever with sector and lifting lever quadrant to main frame, by special shank-headed bolt inserted from right side of sector, with washer under head of bolt; *at the same time* secure quadrant to frame by lower bolt.
2. Hook lifting lever connection into sector from right side.
3. Connect gag lever to hinge with pin found wired to inner shoe.



4. Attach gag lever post to inner shoe with pin found in post.
5. Attach foot lever to lifting lever sector with pin found in sector.

Illustration No. 7

Showing method of attaching lifting lever and foot lever, and connecting to frame.

Vertical Lift

1. Attach lifting lever with sector and lifting lever quadrant to main frame, by special shank-headed bolt inserted from right side of sector, with large washer under head of bolt; *at the same time* secure quadrant to frame by lower bolt.

IMPORTANT!

Draw nut up very tight. Then tighten nut on lower bolt, to prevent breakage of lock.

2. Hook lifting lever connection into sector from right side.

3. Connect gag lever to hinge with pin found wired to inner shoe.

4. Attach gag lever post to inner shoe with pin found in post.

5. Attach foot lever to lifting lever sector with pin found in sector.

6. Slide shipper cam bar through cam bar pivot and attach to lifting lever sector.

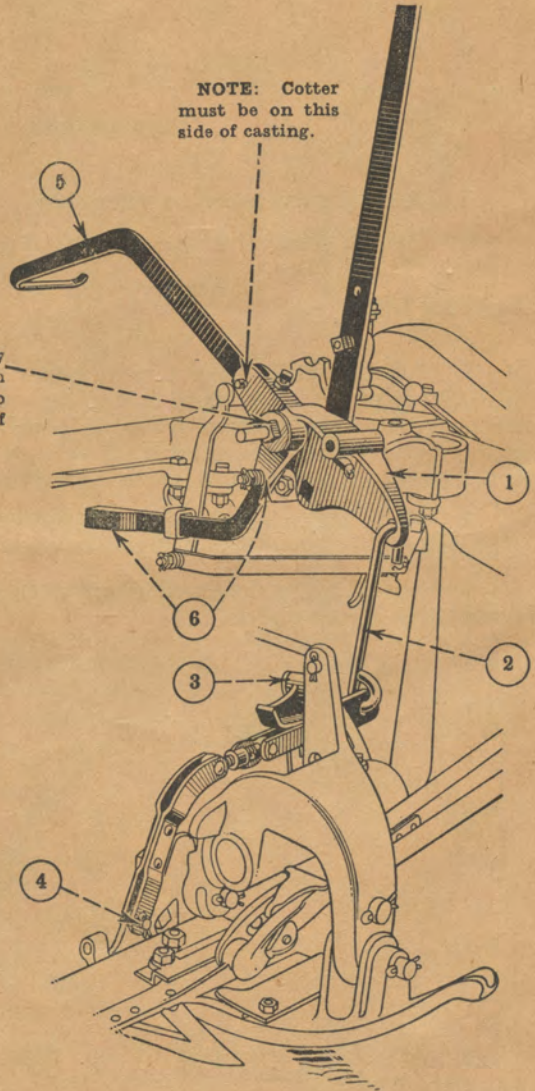


Illustration No. 8

Showing method of attaching lifting lever and foot lever, and connecting to frame.

Regular Lift

NOTE:

Main wheel has been removed to show lifting spring, etc., more clearly.

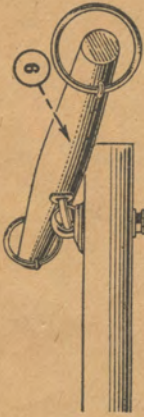
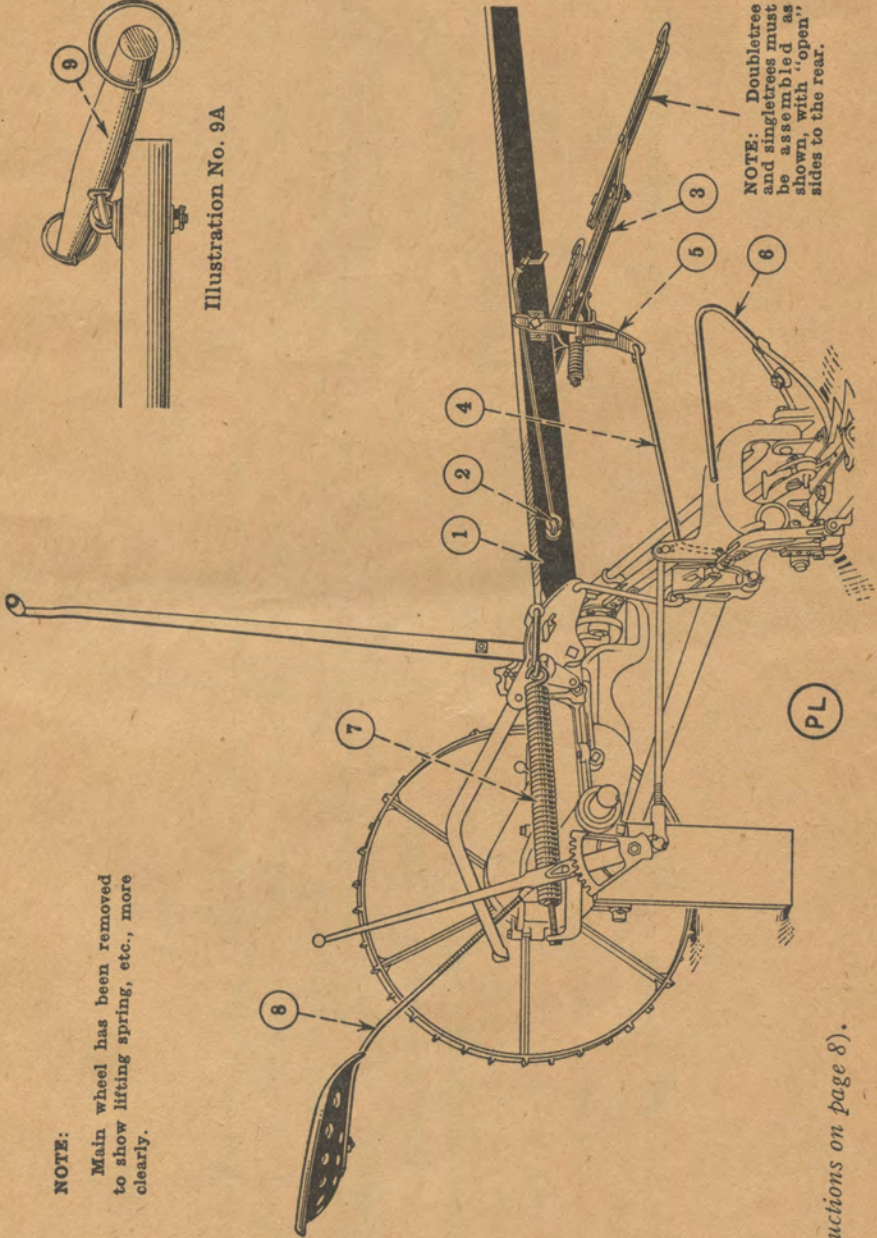


Illustration No. 9A



NOTE: Doubletree and singletrees must be assembled as shown, with "open" sides to the rear.

Illustration No. 9

Attaching seat spring, tongue, lifting spring, etc.

(See instructions on page 8).

Regular Lift and Vertical Lift

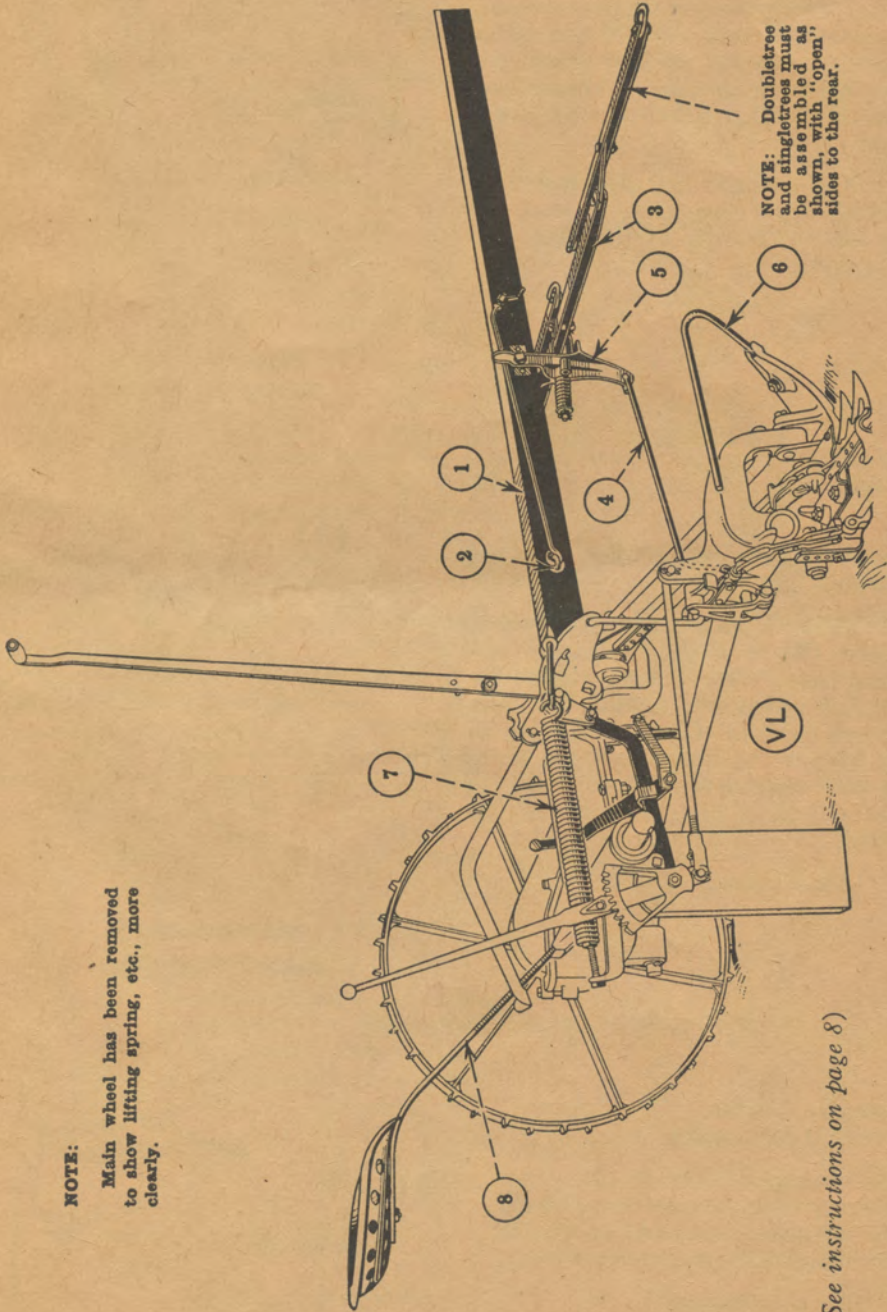
(See illustrations Nos. 9 and 10)

1. Attach tongue to tongue socket with three $\frac{1}{16}$ x $4\frac{5}{8}$ " machine bolts found in tool box; put large $1\frac{3}{4}$ " x 12 Ga. washers under heads of bolts.
2. Attach cutter bar stay rod to tongue.
3. Attach doubletree with singletrees to draft bracket.
4. Hook curved end of draft rod into shoe hinge and hook front end into draft bracket.
5. Attach draft bracket to tongue.
6. Attach inner shoe fender rod to shoe.
7. Raise bar until latch pawl engages rear notch in quadrant. Hook lifting spring on hook and attach rear end to lifting spring connection, rear. Tighten spring until cutter bar rests lightly upon the ground and raises easily. Tension of spring should be such that cutter bar will float easily along the ground with just enough weight to hold it steady.
8. Attach seat spring with seat to seat socket in frame with $\frac{5}{8}$ x $1\frac{5}{8}$ " machine bolt found in tool box.
9. Attach neckyoke to front end of tongue. (See illustration No. 9A.)

Vertical Lift

NOTE:

Main wheel has been removed to show lifting spring, etc., more clearly.



NOTE: Doubletree and singletrees must be assembled as shown, with "open" sides to the rear.

(See instructions on page 8)

Illustration No. 10
Attaching seat spring, tongue, lifting spring, etc.

Vertical Lift

When lever (A) is turned to the rear, the stop (B) is brought directly over coupling bar. When cutter bar is raised by lifting lever to first notch in quadrant, the knife continues to run. When cutter bar is raised beyond the first notch, the knife stops automatically. When raised to second notch, the cutter bar folds vertically.

The adjustment bolt (C) should be regulated, when necessary, so that the cutter bar will be held firmly when in a vertical position.

(See illustration No. 11)

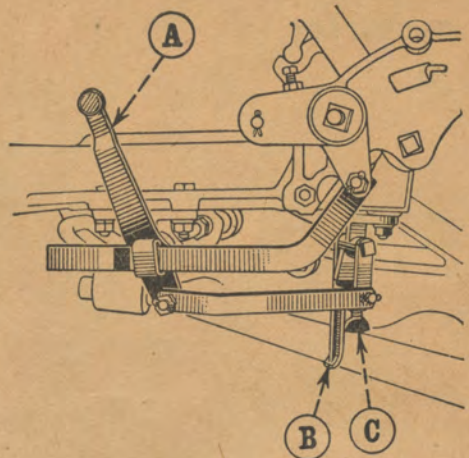


Illustration No. 11
Vertical lift position.

To Convert Vertical Lift to Regular Lift

When lever (A) is turned forward, the stop (B) is withdrawn from the coupling bar. When raising the cutter bar to first notch in quadrant, the knife continues to run. When cutter bar is raised beyond the first notch, the knife stops automatically. When raised to second notch, a high regular lift is obtained.

(See illustration No. 12)

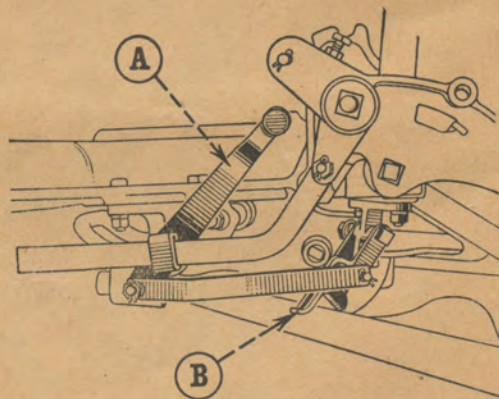


Illustration No. 12
Regular lift position.

Automatic Clutch (Vertical Lift only)

If automatic clutch does not operate correctly, it may be regulated by the adjusting nuts (A) on clutch shifter rod directly under the tool box.

(See illustration No. 13)

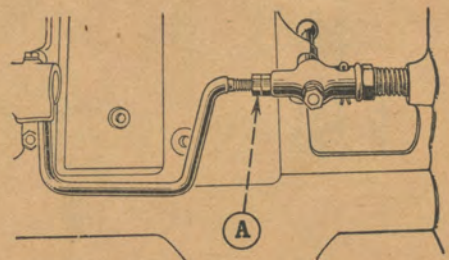


Illustration No. 13

OILING

Keep your machine clean, and oil freely all bearings and moving parts.

Note: In localities where the soil is sandy or full of grit, knife guides, wearing plates, and knife clips should not be oiled; in other localities, where these conditions do not exist, oil frequently.

Important: The gears of this mower must be run in oil!

Before using the machine, remove plug from gear case cover and pour four quarts of motor oil (S.A.E. 20) into gear case. This will bring the oil level above the top of crankshaft when the pole is at working height. Maintain this level by adding fresh oil as needed. **Note:** Use square wrench, as furnished, to remove drain plug from bottom of gear case.

Never use heavy transmission oil. The main axle, crankshaft, gears, clutch, etc., are all oiled automatically from gear case.

After the first filling of gear case, the mower should not be run more than 40 to 50 hours, when the oil should be drained, removing at the same time from bottom of case any sediment which may have collected due to wear. Then refill with new oil to proper level. Replenish at intervals, as needed, to maintain proper oil level. After the initial oil has been replaced, one filling should last an entire season or longer, except in cases where mowers cut considerable acreage annually. In these cases, oil should be drained completely and replaced by fresh oil every 800 acres.

Oil pitman box and lower end frequently.

Oil at least once a day:

Clutch shifter.

Shoe hinge pins and bearings.

Joints for lifting mechanism, also gag lever and cam.

Lever bearing and pivots.

Shoe hinge on coupling bar.

INSTRUCTIONS FOR ADJUSTING AND OPERATING

See that your machine is properly set up, adjusted and oiled as instructed, before going into the field.

Be sure that all nuts and set screws are tight. Spread all cotters to keep them from falling out.

Tongue. Front end of tongue should be 31 inches from the ground when horses are hitched to mower. (See illustration No. 16.)

Knife clips should be set to hold sections down against ledger plates on guards, but must allow knife to run freely.

Keep the cutting apparatus in perfect condition. Always have knife sharp. There should be perfect shearing between sections and ledger plates, that is, the tip of every section should lie smoothly on ledger plate. Sometimes, in rough cutting, knife may be bent. It is then necessary to remove knife and straighten same. *The knife may be straightened by squinting along the edge, noting where it has been bent and pounding same on a flat block with a hammer, then again lining it up with the eye and giving it a light tap where necessary until same is perfectly straight.* Replace knife and see that it slides freely. The steel wearing plates are designed to hold knife sections in a correct cutting position. If, after long service, they become worn enough to allow the points of the sections to rise from ledger plates, they should be replaced by new wearing plates.

Gear Case

(See illustration No. 14)

1. Periodical examinations should be made to see that tapered bolts securing pawl holder to axle are tight. This should be done by tapping the head of the bolt lightly, and drawing the nut tight.

2. Should it be necessary at any time to adjust mesh of bevel gear and pinion for closer mesh, this can be done by loosening the hexagon nut on bevel gear shaft (indicated at 2) and screwing shaft clockwise, or in right-hand direction.

Care should be taken not to get mesh of gears too tight, or deep enough to cause noise or heavy draft.

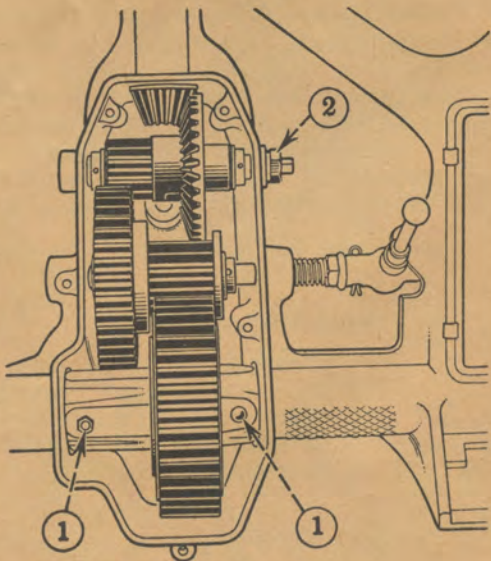


Illustration No. 14
Gear case assembly.

To throw mower into gear, shift clutch shifter toward rear.

To throw mower out of gear, shift clutch shifter forward.

Gag link adjustment. If outer end of bar sags behind the inner end in raising, shorten the adjustment; if outer end is too light, especially on short bars, lengthen the adjustment.

(Vertical Lift only)—Adjust coupling bar stop to hold bar vertically, when lifting lever latch pawl is in the rear notch on lifting lever quadrant.

Latch pawl on lifting lever is adjustable to take up wear. Lower round portion on pawl, when in engagement with notch in quadrant, should be about in line with front edge of lever. (See illustration No. 15.) *Bolts must be kept tight.*

Latch pawl releases itself by starting lever forward.

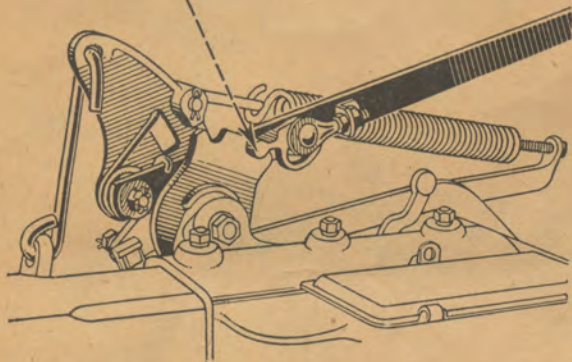


Illustration No. 15

Showing lifting lever and latch pawl, etc.

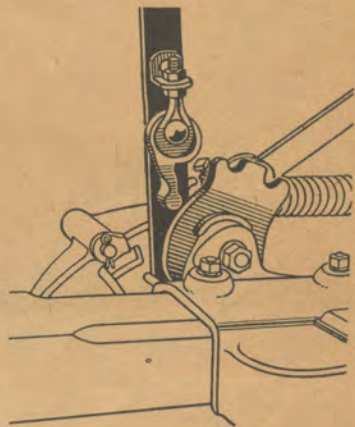


Illustration No. 15A

To tilt guards, use tilting lever (near right wheel).

To regulate height of cut, raise or lower soles under inner and outer shoes; cutter bar should be the same height at both ends. In rough ground, shoe soles should be adjusted and front of bar tilted up enough to keep knife out of ground.

In cutting very close to the ground, adjust height of cut and tilt cutter bar forward. However, this should be done only in down grass and smooth ground; otherwise, knife may be injured.

Do not hammer or bend down the lips of guards. This practice will only result in choking knife and causing mower to run hard.

Excessive draft is usually due to the following:

A dull knife.

Poor lubrication.

Non-alignment of cutter bar.

Poor adjustment of cutter bar parts.

For passing over stones, stumps, etc., and for turning corners, cutter bar can be raised high enough for ordinary conditions by means of foot lever; both inner and outer ends of bar are thus raised at the same time. Cutter bar can also be raised by means of the hand lifting lever. (See illustrations Nos. 17 and 18.)

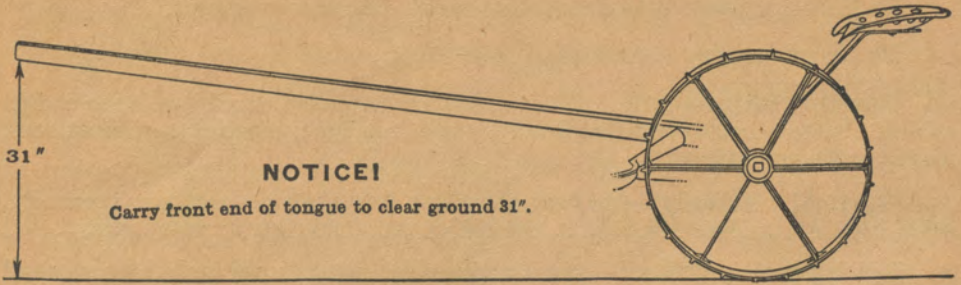


Illustration No. 16

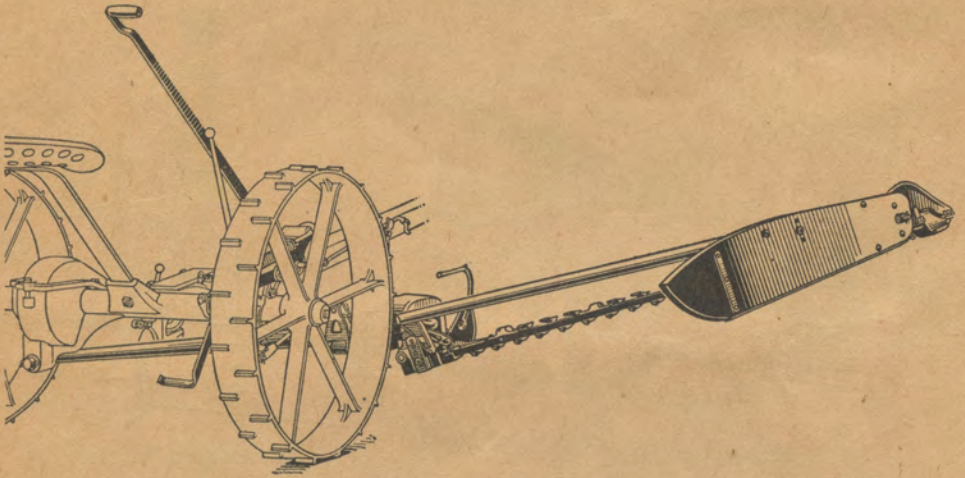


Illustration No. 17
Bar suspended in low position.

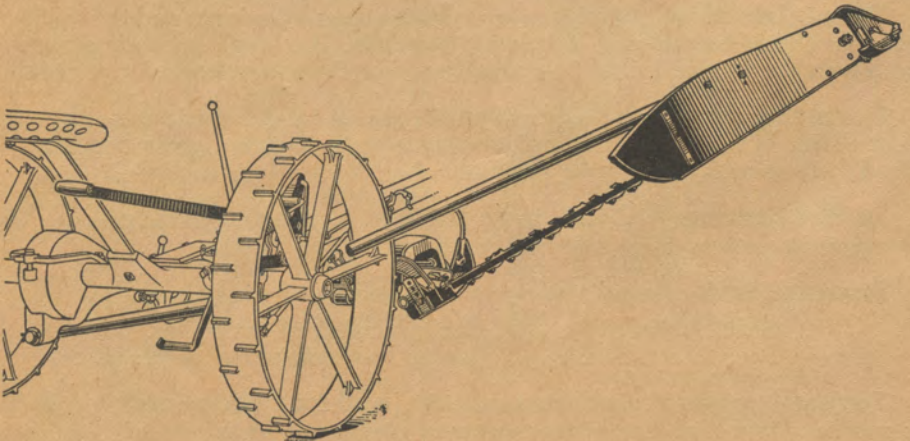


Illustration No. 18
Bar suspended in high position (Regular Lift only).

To fold cutter bar for transporting, see that the pitman wrist pin is at highest or lowest point (if this is not done, breakage of pitman or knife head may result); then raise cutter bar to an upright position with hand lever and foot lever (pull hand lever down to last notch in quadrant). Insert hold-up rod through hole in cutter bar and secure with nut. (See illustration No. 19.)

Regular Lift. Be sure mower is out of gear before folding the cutter bar. (On the Vertical Lift Mower, the clutch is disengaged automatically.)



Illustration No. 19
Bar folded.

Lifting spring. If cutter bar is too light upon the ground, slacken lifting spring; if too heavy, tighten spring. This is done by adjusting the bolt in lifting spring. The lifting spring, when properly adjusted, reduces the friction of cutter bar on the ground, thus lessening the tendency toward side draft; the weight is also taken off the frame and transferred to the main wheels, giving the maximum traction.

Grass board. Connection of grass board may be tightened to any extent, or board may be made rigid, if preferred. To lay a good swath, the position of grass stick may be changed by using the various holes in grass board. For tall grass, raise rear end of stick; for short grass, lower rear end. (See illustration No. 6.)

☞ **Thoroughly acquaint yourself with the foregoing rules and instructions, and you will be well repaid in the quality of the work and the durability of your machine.**

LIST OF REPAIR PARTS

NAME OR DESCRIPTION	Cat. No. and Mower used on	
	Regular Lift	Vertical Lift
Neckyoke, complete, 34½" long.....	B 570	B 570
Main wheel pawl.....	DA 500	DA 500
Tool box cover latch.....	D 2283	D 2283
Tool box hinge.....	D 2284	D 2284
Tongue wearing plate, complete.....	D 2381	D 2381
Outer shoe sole.....	D 2961	D 2961
Oil can.....	H 156	H 156
Punch.....	HX 722	HX 722
Cold chisel.....	H 758M	H 758M
"S" wrench.....	HE 911	HE 911
Horned nut, ½" (on Q503).....	L 64	L 64
Wrist pin.....	M 90M	M 90M
Wrist pin nut.....	M 91½	M 91½
Knife head.....	MA 139	MA 139
Horned nut, 7/16" (on Q1199).....	M 151M	M 151M
Horned nut, 3/8" (on Q820).....	M 152M	M 152M
Grass stick plate.....	MA 256	MA 256
Outer shoe sole bracket.....	MA 257	MA 257
Outer shoe sole.....	M 259	M 259
Grass stick.....	M 328M	M 328M
Ledger plate for outer shoe.....	M 330	M 330
Knife, 4½ ft., MA139 head, 18 MB333 sections.....	MB 331	MB 331
Knife, 5 ft., MA139 head, 20 MB333 sections.....	MB 332	MB 332
Smooth section.....	MB 333	MB 333
Knife, 6 ft., MA139 head, 24 MB333 sections (Big 7).....	MB 408	.....
Knife, 7 ft., MA139 head, 28 MB333 sections (Big 7).....	MB 409	.....
Inner shoe sole.....	MB 465	MB 465
Knife wearing plate.....	MA 468	MA 468
Cutter bar stay rod nut.....	MA 487	MA 487
Seat.....	MB 488	MB 488
Seat spring.....	M 489	M 489
Neckyoke staple.....	M 587C	M 587C
Fender rod for inner shoe.....	M 666	M 666
Inner shoe pin.....	MA 683	MA 683
Outer shoe.....	ME 729	ME 729
Guard.....	MD 989	MD 989
Guard ledger plate, serrated.....	MA 990	MA 990
Knife clip.....	M 1000	M 1000
Knife clip (high arch).....	MD 1000	MD 1000
Cutter bar, 4½ ft., plain.....	MC 1004	MC 1004
Cutter bar, 5 ft., plain.....	MC 1005	MC 1005
Cutter bar, 6 ft., plain (Big 7).....	MC 1006	.....
Cutter bar, 7 ft., plain (Big 7).....	MC 1007	.....
Grass board, complete.....	MA 1050	MA 1050
Grass board, plain.....	M 1051	M 1051
Tongue eye-bolt washer.....	M 1101	M 1101
Tilting connection adjustment.....	MA 1221	MA 1221
Knife head cap, front.....	MA 1239	MA 1239
Wearing plate under knife head cap, front.....	MA 1263	MA 1263
Flywheel shield.....	MA 1401	MA 1401
Gag lever hinge.....	MC 1402	.....
Lifting lever latch pawl.....	M 1403	M 1403
Lifting lever latch pawl pivot.....	MB 1404	MB 1404
Gag lever.....	MA 1417	.....
Gag lever post.....	MA 1418	.....
Gag lever post adjustment.....	M 1423	.....
Lifting spring plug.....	M 1425	M 1425
Lifting lever handle.....	M 1426	M 1426
Gag hinge pin, ¾ x 4½".....	M 1439	M 1439
Tilting rod.....	MC 1442	MC 1442
Latch pawl adjustment clip.....	M 1445	M 1445

ORDER REPAIRS EARLY

NAME OR DESCRIPTION	Cat. No. and Mower used on	
	Regular Lift	Vertical Lift
Foot lever.....	M 1447	M 1447
Gag post adjustment eye-bolt.....	M 1449	.....
Gag link.....	M 1450	M 1450
Pitman plunger.....	MA 1573	MA 1573
Pitman strap, front.....	MA 1577	MA 1577
Pitman strap, rear.....	M 1578	M 1578
Pitman latch fork.....	MC 1579	MC 1579
Pitman plate washer.....	M 1581	M 1581
Pitman box.....	MC 2077	MC 2077
Pitman box bushing.....	M 2078	M 2078
Bevel gear pinion, 13 teeth.....	M 2209	M 2209
Clutch shipper.....	MA 2215	MA 2215
Flywheel shaft bushing, rear.....	M 2217	M 2217
Flywheel.....	MA 2222	MA 2222
Tilting lever lock.....	MA 2226	MA 2226
Tilting lever detent.....	M 2227	M 2227
Coupling bar stop pivot.....	M 2256	M 2256
Pipe plug in gear cover.....	M 2261	M 2261
Coupling bar stop.....	.....	M 2271
Gag link adjustment.....	.....	M 2272
Gag lever.....	.....	M 2273
Gag lever hinge.....	.....	M 2274
Inner shoe.....	M 2284	M 2284
Main frame.....	M 2290	M 2290
Gear cover.....	M 2291	M 2291
Main gear, 40 teeth.....	M 2296	M 2296
Main gear pinion, 12 teeth.....	M 2297	M 2297
Pawl holder, right.....	M 2299	M 2299
Pawl holder, left.....	M 2337	M 2337
Main wheel roller bearing spacer.....	M 2338	M 2338
Lifting lever lock.....	M 2366	M 2366
Intermediate gear, 38 teeth.....	M 2367	M 2367
Bevel gear, 33 teeth.....	M 2368	M 2368
Knife head cap, rear.....	MA 2370	MA 2370
Main wheel hub cap.....	M 2374	M 2374
Main wheel, 32" diam., 4½" face (cross lugs), 4½ ft. and 5 ft. (No. 7 only) (regular).....	M 2375	M 2375
Main wheel, 32" diam., 4½" face (scalloped center rim), 4½ ft. and 5 ft. (No. 7 only) (special).....	M 2376	M 2376
Main wheel, 32" diam., 5½" face (cross lugs), 4½ ft., 5 ft., 6 ft. and 7 ft. (Big 7 only) (regular).....	M 2377	.....
Main wheel, 32" diam., 5½" face (scalloped center rim), 4½ ft., 5 ft., 6 ft. and 7 ft. (Big 7 only) (special).....	M 2378	.....
Inner shoe hinge.....	M 9034	M 9034
Lifting lever sector.....	M 9035	M 9035
Coupling bar stop lever.....	.....	MA 9105
Clutch cam bracket.....	.....	M 9106
Shipper rod cam bar pivot.....	.....	M 9107
Spring draft bracket.....	MA 9118	MA 9118
Bevel gear collar.....	MA 9142	MA 9142
Shipper rod cam bar pivot stud.....	.....	M 19246
Lifting spring hook.....	M 19255	M 19255
Lifting spring connection.....	M 19257	M 19257
Lifting link.....	MA 19259	MA 19259
Clutch shipper rod.....	.....	M 19260
Coupling bar stop bolt.....	.....	M 19539
Neckyoke ring.....	M 22100	M 22100
Pitman box connection stiffener.....	M 22221	M 22221
Pitman box connection.....	M 22222	M 22222
Coupling bar.....	MA 22400	MA 22400
Coupling bar brace.....	M 22401	M 22401
Flywheel shaft, 1½ x 12¾".....	M 22404	M 22404
Automatic pitman, complete (41" long).....	MA 22407	MA 22407

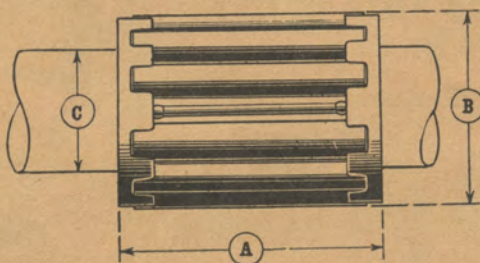
ORDER REPAIRS EARLY

NAME OR DESCRIPTION	Cat. No. and Mower used on	
	Regular Lift	Vertical Lift
Clutch shipper handle	MA 22411	MA 22411
Lifting lever sector bolt	MA 22413	MA 22413
Tool box cover	M 22417	M 22417
Shipper rod cam		MA 22419
Automatic pitman, plain	M 22420	M 22420
Tilting lever	MA 22421	MA 22421
Clutch shipper roller	MA 22424	MA 22424
Draft rod	MA 22432	MA 22432
Oil retainer on main axle (for 1 $\frac{9}{16}$ " shaft)	M 22439	M 22439
Oil retainer on flywheel shaft (for 1 $\frac{1}{8}$ " shaft)	M 22440	M 22440
Cutter bar stay rod, complete	M 22447	M 22447
Flywheel shaft bushing, front	M 22551	M 22551
Grooved pin, $\frac{7}{16}$ x 3" (on main axle, short)	M 22555	M 22555
Doubletree clevis	M 22557	M 22557
Shipper rod cam bar		M 22561
Tilting rod, complete (set to 23 $\frac{1}{16}$ " centers)	M 22562	M 22562
Oil cup in pitman box	M 22563	M 22563
Oil cup in inner shoe hinge	M 22564	M 22564
Main axle, long, 1 $\frac{1}{16}$ x 38 $\frac{1}{16}$ "	M 22584	M 22584
Main axle, short, 1 $\frac{9}{16}$ x 13 $\frac{1}{16}$ "	M 22585	M 22585
Main axle roller bearing race, left	M 22588	M 22588
Main axle roller bearing race, right and center	M 22589	M 22589
Gag post, complete		M 22636
Tongue	M 22638	M 22638
Gag post adjustment eye-bolt		M 22639
Coupling bar stop adjustment bar		M 22645
Lifting lever	M 22746	M 22746
Cutter bar, 4 $\frac{1}{2}$ ft., complete	M 22748	M 22748
Cutter bar, 5 ft., complete	M 22749	M 22749
Cutter bar, 6 ft., complete (Big 7)	M 22750	
Cutter bar, 7 ft., complete (Big 7)	M 22751	
Pitman box, complete	MA 22775	MA 22775
Bevel gear shaft, $\frac{1}{2}$ x 9 $\frac{11}{16}$ "	M 22791	M 22791
Clutch gear shaft, $\frac{3}{4}$ x 13 $\frac{1}{16}$ "	M 22792	M 22792
Gear thrust washer	M 22793	M 22793
Spring draft bracket clip	M 22859	M 22859
Wearing plate under knife head cap, rear	M 22863	M 22863
Drain plug wrench	M 22945	M 22945
Swivel casting for neckyoke eye-bolt	PG 94	PG 94
Seat washer	Q 217	Q 217
Neckyoke eye-bolt washer	Q 223	Q 223
Singletree hook, right	ST 1025	ST 1025
Singletree strap	ST 1027	ST 1027
Singletree hook, left	ST 1035	ST 1035
Singletree, 26 $\frac{1}{2}$ " long	ST 1040	ST 1040
Doubletree, 36" long	ST 1045	ST 1045
Neckyoke eye-bolt, complete	Z 1181	Z 1181
Monkey wrench, 8"	4E	4E
SPRINGS		
Grass board spring, 1 $\frac{1}{16}$ x 1 $\frac{1}{2}$ ", 5 $\frac{3}{4}$ coils	M 1015	M 1015
Draft spring, 1 $\frac{5}{16}$ x 3 $\frac{1}{4}$ ", 8 coils	MB 1299	MB 1299
Lifting spring, 1 $\frac{1}{16}$ x 12 $\frac{1}{16}$ ", 40 coils	M 1430	M 1430
Lifting lever spring, 2 $\frac{5}{16}$ x $\frac{5}{8}$ ", 1 $\frac{1}{2}$ coils	M 1457	M 1457
Pitman plunger spring, $\frac{5}{8}$ x 5 $\frac{3}{8}$ ", 24 $\frac{1}{2}$ coils	M 1574	M 1574
Clutch shipper spring, 1 $\frac{1}{8}$ x 2 $\frac{3}{4}$ ", 8 $\frac{1}{2}$ coils	MA 22649	MA 22649
Lifting lever sector spring, $\frac{1}{16}$ x 1 $\frac{1}{16}$ ", 5 $\frac{1}{2}$ coils		V 620
Pawl spring, $\frac{1}{16}$ x 2 $\frac{1}{2}$ ", 12 coils	No. 76DS	No. 76DS
BOLTS		
Outer shoe bolt, $\frac{7}{16}$ x 1 $\frac{1}{2}$ "	A 200A	A 200A
Guard bolt, short, $\frac{7}{16}$ x 1 $\frac{1}{2}$ "	A 200A	A 200A
Outer shoe sole bolt, $\frac{1}{2}$ x 1 $\frac{1}{8}$ "	D 266	D 266
Inner shoe bolt, long, $\frac{1}{2}$ x 2 $\frac{3}{16}$ "	MA 325	MA 325
Inner shoe bolt, short, $\frac{1}{2}$ x 1 $\frac{1}{8}$ "	MD 325	MD 325

ORDER REPAIRS EARLY

NAME OR DESCRIPTION	Cat. No. and Mower used on			
	Regular Lift		Vertical Lift	
BOLTS—Continued				
Grass board bolt, $\frac{1}{2} \times 2\frac{7}{16}$ "	M	326 $\frac{1}{2}$	M	326 $\frac{1}{2}$
Grass stick bolt, $\frac{5}{16} \times 2\frac{1}{4}$ "	M	328 $\frac{1}{2}$	M	328 $\frac{1}{2}$
Seat bolt, $\frac{1}{2} \times 1\frac{1}{8}$ "	M	488 $\frac{1}{2}$	M	488 $\frac{1}{2}$
Guard bolt, long, $\frac{7}{16} \times 1\frac{3}{8}$ "	M	806	M	806
Draft spring bolt, $\frac{1}{2} \times 5\frac{1}{2}$ "	M	19261	M	19261
Draft bracket bolt, $\frac{1}{2} \times 6\frac{1}{4}$ "	Q	503	Q	503
Lifting lever sector bolt, $\frac{7}{16} \times 2\frac{1}{4}$ "			Q	605
Coupling bar stop lever bolt, $\frac{7}{16} \times 2"$			Q	611
Knife head cap (front) bolt, $\frac{3}{8} \times 1\frac{3}{8}$ "	Q	701	Q	701
Lifting lever hinge bolt, $\frac{3}{8} \times 1\frac{1}{2}$ "	Q	820	Q	820
Coupling bar stop pivot bolt, $\frac{7}{16} \times 1\frac{9}{16}$ "	Q	1115	Q	1115
Flywheel shield bolt, $\frac{7}{16} \times 9\frac{1}{2}$ "	Q	1199	Q	1199
Tilting lever lock bolt, $\frac{7}{16} \times 2\frac{1}{4}$ "	Q	1321	Q	1321
Lifting spring bolt, $\frac{1}{2} \times 4\frac{1}{8}$ "	Q	2079	Q	2079
PINS				
Tapered pin, $\frac{5}{8} \times 3\frac{7}{8}$ "	F	43	F	43
Foot lever hinge pin, $\frac{7}{16} \times 1\frac{1}{8}$ "	L	387 $\frac{1}{2}$	L	387 $\frac{1}{2}$
Inner shoe and gag lever post pin	M	780 $\frac{1}{2}$		
Inner shoe and gag post pin, $\frac{7}{16} \times 1\frac{1}{8}$ "			M	906
Grooved pin, $\frac{1}{2} \times 1\frac{1}{2}$ "	M	22787	M	22787
Doubletree clevis pin, $\frac{1}{2} \times 2"$	PG	141	PG	141
Tilting connection adjustment pin, $\frac{9}{16} \times 1\frac{1}{4}$ "	Q	566	Q	566
Gag lever pin, $\frac{1}{2} \times 2\frac{3}{4}$ " (4 $\frac{1}{2}$ ft. and 5 ft.)	Q	814	Q	814
Gag lever pin, $\frac{9}{16} \times 2\frac{1}{8}$ " (6 ft. and 7 ft.)	Q	919		

ROLLER BEARINGS



Catalog Number	WHERE USED	Outside Dimensions		Size of Shaft "C"	End Ring (Catalog Number)
		Length "A"	Diameter "B"		
M 22731	Main wheel roller bearing, left	2 $\frac{1}{4}$ "	2 $\frac{5}{16}$ "	1 $\frac{9}{16}$ "	M2267
M 22734	Main wheel roller bearing, right and center	2 $\frac{1}{4}$ "	2 $\frac{3}{16}$ "	1 $\frac{9}{16}$ "	M2298

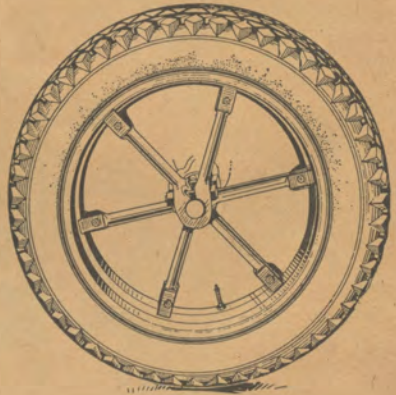
ORDER REPAIRS EARLY

NAME OR DESCRIPTION	Cat. No. and Mower used on	
	Regular Lift	Vertical Lift
WEED BAR (Special)		
Smooth section.....	M 333½	M 333½
Serrated section.....	M 333½S	M 333½S
Knife clip.....	MA 812	MA 812
Knife clip (high arch).....	MB 812	MB 812
Knife head.....	MA 999	MA 999
Knife, 3 ft., with MA999 head, 12-M 333½ sections.....	MA 1075	MA 1075
Sickle, 3 ft., with MA999 head, 12-M 333½S sections....	MA 1075S	MA 1075S
Knife, 3½ ft., with MA999 head, 14-M 333½ sections....	MA 1076	MA 1076
Sickle, 3½ ft., with MA999 head, 14-M 333½S sections...	MA 1076S	MA 1076S
Knife, 4 ft., with MA999 head, 16-M 333½ sections.....	MA 1077	MA 1077
Sickle, 4 ft., with MA999 head, 16-M 333½S sections....	MA 1077S	MA 1077S
Knife, 4½ ft., with MA999 head, 18-M 333½ sections....	MA 1079	MA 1079
Sickle, 4½ ft., with MA999 head, 18-M 333½S sections...	MA 1079S	MA 1079S
Knife, 5 ft., with MA999 head, 20-M 333½ sections.....	MA 1080	MA 1080
Sickle, 5 ft., with MA999 head, 20-M 333½S sections....	MA 1080S	MA 1080S
Knife, 6 ft., with MA999 head, 24-M 333½ sections (Big 7)	MA 1081	.....
Sickle, 6 ft., with MA999 head, 24-M 333½S sections (Big 7).....	MA 1081S	.....
Knife, 7 ft., with MA999 head, 28-M 333½ sections (Big 7)	MA 1082	.....
Sickle, 7 ft., with MA999 head, 28-M 333½S sections (Big 7).....	MA 1082S	.....
Guard.....	M 2041	M 2041
Inner guard.....	M 2042	M 2042
Outer guard.....	M 2043	M 2043
Cutter bar, 3 ft., complete.....	M 22572	M 22572
Cutter bar, 3½ ft., complete.....	M 22573	M 22573
Cutter bar, 4 ft., complete.....	M 22574	M 22574
Cutter bar, 4½ ft., complete.....	M 22575	M 22575
Cutter bar, 5 ft., complete.....	M 22576	M 22576
Cutter bar, 6 ft., complete (Big 7).....	M 22577	.....
Cutter bar, 7 ft., complete (Big 7).....	M 22578	.....

MAIN WHEEL
WITH PNEUMATIC BALLOON TIRE
(5.25-21)

(M22825, Complete)

(Special)



NAME OR DESCRIPTION	Cat. No. and Mower used on	
	Regular Lift	Vertical Lift
Main wheel spider.....	M 2386	M 2386
Main wheel sand cap.....	M 22826	M 22826
Main wheel rim lug.....	M 22827	M 22827
Main wheel drop center rim.....	M 22828	M 22828

ORDER REPAIRS EARLY

M 151 M M 152 M

L 64

MA 487

M 91 1/2

M 330

DA 500

M 90 M

MA 257

MB 333



MA 468



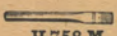
MA 990



MA 683



MA 256



H 758 M

M 587 C



MA 1221



M 1101



MD 1000



MA 1239



HE 911



MA 1263



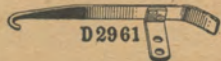
MC 1402



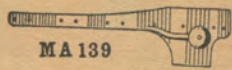
MD 989



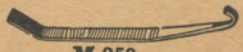
M 1000



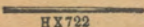
D 2961



MA 139



M 259



H X 722



B 570



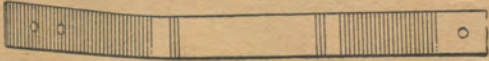
MA 1401



M 328 M



M 666



M 489



W E 729



MB 465



H 156



MB 488

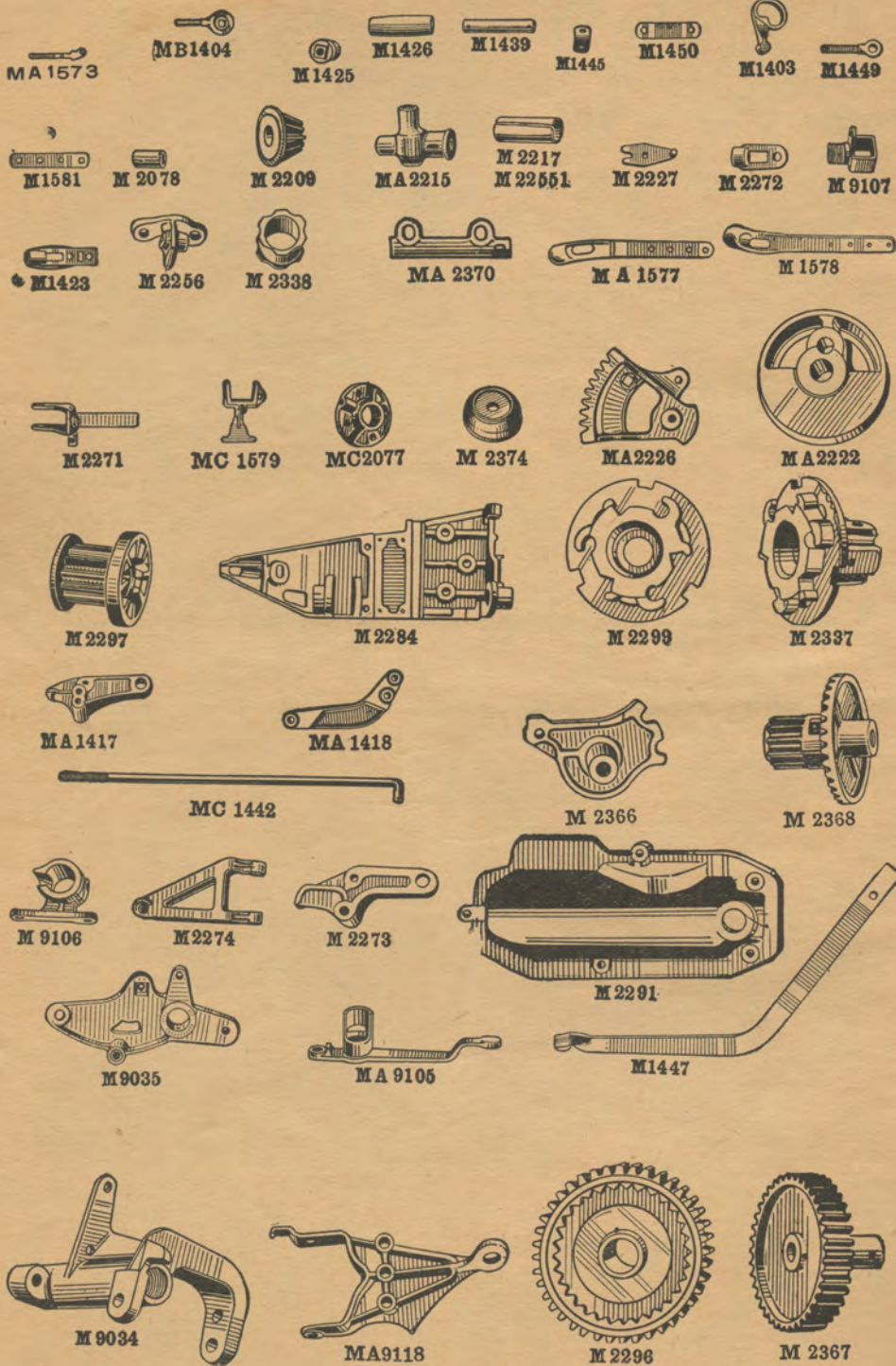



MA 1050




M 1051

Don't order parts from the illustrations only; refer to the list also.



 Don't order parts from the illustrations only; refer to the list also.



MA 22424



M22563



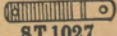
Q 217




Q 223



PG 94



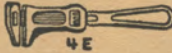
ST 1027



MA 22413



M 22557



4 E



ST 1025 M 22639



ST 1035



M 22440



MA 9142



M 22100



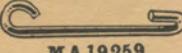
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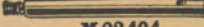
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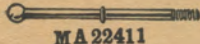
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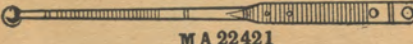
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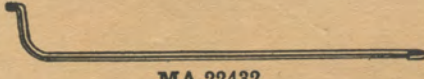
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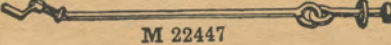
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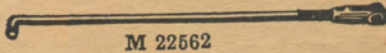
MA 22421



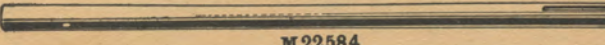
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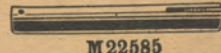
M 22447




M 22562



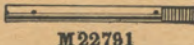
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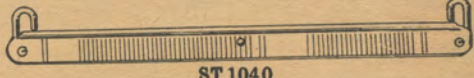
M 22585



Z 1181



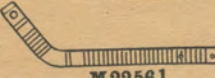
M 22791



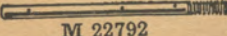
ST 1040



M 22746



M 22561



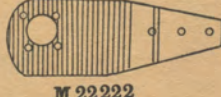
M 22792



M 22589



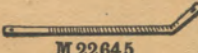
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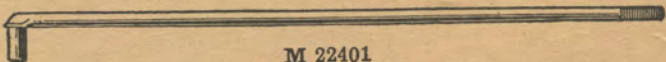
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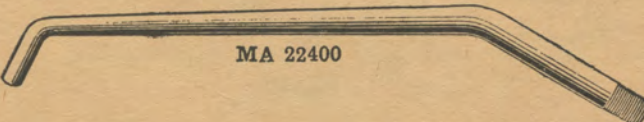
ST 1045




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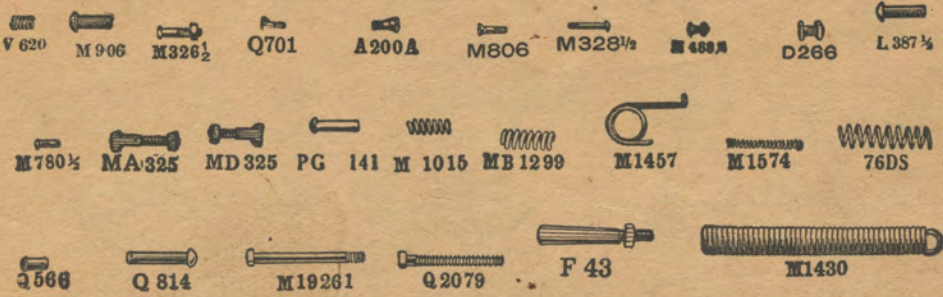
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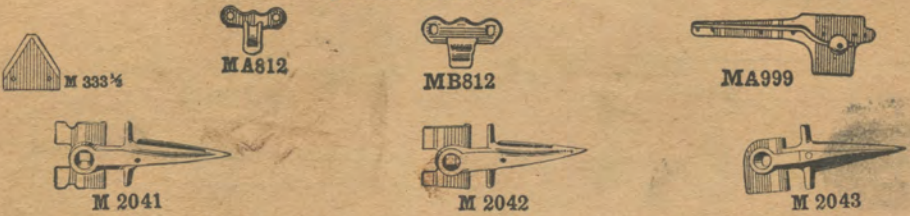
MA 22400

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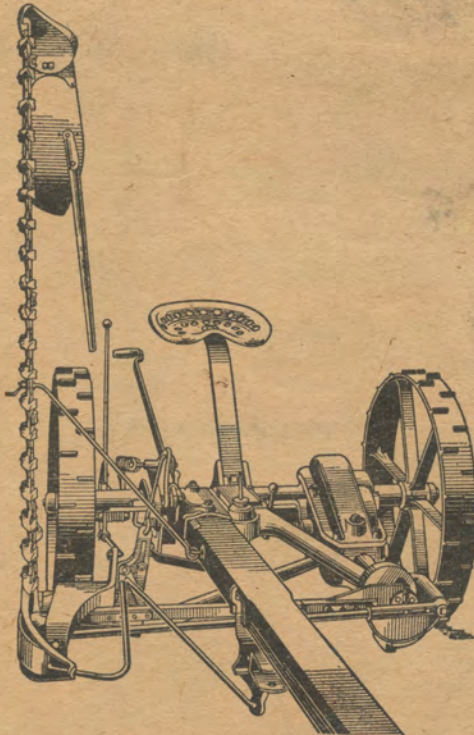
SPRINGS, BOLTS AND PINS



WEED BAR (Special)



Don't order parts from the illustrations only; refer to the list also.



No. 7 Vertical Lift Mower.

M 330
MA 990