

EQUIPMENT BOOK



WILLYS-OVERLAND

Before You Open Your Book!

Willys-Overland Motors has achieved a unique position in the automotive industry. Not only does this Company produce utility passenger vehicles, but it is playing a strong part in the nation's industrial and agricultural economy. This is due in part to the adaptability of the Universal 'Jeep' to an increasing variety of tough jobs, and to the continued expansion of its usefulness by present 'Jeep' owners. Because of this varied utility of the Universal 'Jeep', many attachments have been designed for specific jobs. In the interest of users and potential users of the 'Jeep', it was felt necessary to inaugurate some approval system for these implements in order to protect the 'Jeep' from damage due to misuse. However, this approval should not be construed as a warranty of the equipment.

Our Willys-Overland Engineering Department conducts exhaustive tests on each piece of equipment submitted for use with the 'Jeep'. This Equipment Book contains all the equipment and implements that have been submitted for approval and have been tested as working satisfactorily with the 'Jeep'. Additional implements will be added as approved, and supplements covering this equipment will be issued to all owners of the Equipment Book.

The Equipment Book can serve several functions as a sales tool:

1. It lists under one cover all of the acceptable implements and attachments for use with the Universal 'Jeep' thus giving a prospective customer a chance to make a selection to find the implement most suited to his needs, together with an FOB selling price for comparison.
2. It can be used by the salesman to increase his prospect file, since in many cases it may suggest new uses for the Universal 'Jeep' and other Willys-Overland products.

This first copy of the Equipment Book will be sent to all distributors and dealers and charged to their parts account; gratis to all advertisers. Additional copies may be ordered through the Sales Promotion Department, Willys-Overland Motors, Toledo 1, Ohio, at the rate of \$3.00 for each additional copy. Since supplements will be issued from time to time, it is imperative that mailing instructions be given for each order so that the supplements will reach the user of the book and be inserted to bring it up-to-date.



General Sales Manager,
WILLYS-OVERLAND MOTORS, TOLEDO, OHIO

The Equipment Book provides you with a vital tool for increasing your volume of Jeep and Jeep truck sales. Use it constantly and keep it up to date.

CHARLES S. DENNISON
Sales Promotion Manager

The 'Jeep' in AGRICULTURE



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The information in this manual relative to special equipment manufactured for use with Willys-Overland products has been furnished by the manufacturers of such special equipment. While Willys-Overland has attempted to check closely the accuracy of such information, it is to be definitely understood that Willys-Overland does not assume any responsibility or liability for the design, material, workmanship, or successful operation of any of such special equipment or the accuracy of such information; nor does Willys-Overland assume any responsibility or liability with respect to the infringement of any patents or trademarks arising out of the sale or use of any of the special equipment listed herein.

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- OVER -

BELT HORSE POWER TESTS

H. P.	Crank shaft speed R.P.M.	Fuel Consumption			Water used Gal. per hour	Temp. Deg. F.		Barometer Inches of Mercury
		Gal. per hour	H.P. hr. per gal.	Lb. per H.P. hour		Cooling med.	Air	
TEST B and TEST C—100% MAXIMUM LOAD—TWO HOURS								
28.43	1998	3.678	7.73	0.791	0.00	195	74	28.940
*TEST D—ONE HOUR <i>(Maximum Torque 3894 lbs. Most efficient load tested)</i>								
25.46	2003	2.582	9.86	0.620	0.00	195	69	28.940
TEST E—VARYING LOAD—TWO HOURS (20 minute runs; last line average)								
25.51	2001	2.600	9.81	0.623	- - -	190	67	- - - -
2.12	2251	1.387	1.79	3.425	- - -	149	67	- - - -
13.79	2046	1.844	7.48	0.818	- - -	164	66	- - - -
25.40	1741	3.071	8.27	0.739	- - -	179	64	- - - -
7.10	2216	1.472	4.82	1.268	- - -	155	64	- - - -
20.03	2099	2.227	8.99	0.680	- - -	174	64	- - - -
15.66	2059	2.067	7.58	0.807	0.00	168	65	28.955

DRAWBAR HORSE POWER TESTS

H.P.	Draw bar pull Lbs.	Speed miles per hr.	Crank shaft speed R.P.M.	Slip of drive wheels %	Fuel Consumption			Water used Gal. per hr.	Temp. Deg. F.		Barometer Inches of Mercury
					Gal. per hour	Hp.-hr. per Gal.	Lb. per Hp.-hr.		Cooling med.	Air	
TEST F and TEST G—100% MAXIMUM LOAD—											
24.32	2148	4.25	2002	5.46	Not Recorded			195	73	28.950	
25.71	1220	7.90	2002	2.44	" "			190	70	28.950	
25.94	909	10.70	2003	2.02	" "			185	70	28.950	
25.50	775	12.34	2001	1.77	" "			176	48	28.800	
23.48	454	19.39	1990	0.89	" "			176	48	28.810	
*TEST H—TEN HOURS— 1st GEAR											
19.15	1676	4.28	2000	4.50	2.209	8.67	0.705	0.01	179	60	28.844
TEST J—OPERATING MAXIMUM LOAD— 1st GEAR											
21.40	2145	3.74	1995	16.80	Not Recorded			178	62	28.700	

TIRES, WHEELS and WEIGHT

		Tests F, G & H		Test J	
Rear Wheel: (each)	Type and Weight	Pressed Steel	Pressed Steel	Pressed Steel	Pressed Steel
	Liquid Ballast	None	None	None	None
	Added Cast Iron	None	None	None	None
Rear Tires:	No., Size and Ply	2 7.00-15 4 ply		2 7.00-15 4 ply	
	Type of Tread	All Service		All Service	
	Make	Goodyear		Goodyear	
	Air Pressure	22 lb		20 lb	
	Front Wheel: (each)	Type and Weight	Pressed Steel	Pressed Steel	Pressed Steel
Front Tires:	Liquid Ballast	None		None	
	Added Cast Iron	359 lb **		None	
	No., Size and Ply	2 7.00-15 4 ply		2 7.00-15 4 ply	
Front Wheel:	Type of Tread	All Service		All Service	
	Make	Goodyear		Goodyear	
	Air Pressure	22 lb		20 lb	
	Height of Drawbar	13 1/2 inches		13 inches	
Static Weight:	Rear End	1406 lb		1406 lb	
	Front End	1956 lb		1238 lb	
Total Weight as Tested (With operator)	3537 lb		2819 lb		

* Formerly called RATED LOAD, see horsepower summary.

** Weight added to front of frame.

* Plenty reserve hp. when operated at 2600 r.p.m. 2000 r.p.m. gives maximum motor torque.

FUEL, OIL and TIME Fuel: Gasoline; octane 74 (octane rating taken from oil company's typical inspection data); weight per gallon 6.116 lb. Oil: SAE 20-20-W; to motor 3.905 gal; drained from motor 0.591 gal. Total time motor was operated 37 hours.

SPECIFICATIONS Type standard; Serial No. 108196; Drive enclosed gear, 4 wheel drive. Tread Width: Rear 48 1/4"; Front 48 1/4". Wheel Base 80 3/32". Hydraulic Lift Control yes. Advertised speeds, mph: First 4.6; Second 8.2; Third 11.2; Fourth 12.9; Fifth 20.2; Sixth 31.3; Reverse 3.4 and 8.2. Be. Pulley: Diam 8"; Face 8"; RPM 1714; Belt Speed 3599 fpm. Clutch: Make Atwood; Type dry, single plate; Operated by foot pedal. Seat upholstered automotive type seat. Brakes: Make Bendix; Type hydraulic, internal expanding; Location in each of 4 wheels; Gear Reduction (brake drum to wheels) 1 to 1: Operated by foot pedals; Locked by foot pedal; Can be locked, emergency brake can be locked by handle under dash. Equalization yes.

ENGINE Make own; Serial No. J226916; Type 4 cylinder vertical; Head I; Mounting crankshaft lengthwise; Lubrication pressure; Bore and Stroke 3 1/8" x 4 3/8"; Rated RPM 2000; Compression Ratio 6.48:1. Port Diameter Valve Inlet 1.343"; Exhaust 1.281". Governor: Make Novi; Type centrifugal, variable speed. Carburetor: Make Carter; Model W-0-6365-A; Size 1". Starter Auto-Lite. Generator Auto-Lite. Distributor and Coil Auto-Lite. Battery Auto-Lite. Air Cleaner: Make Donaldson; Type oil washed wire screen, Oil Filter: Make Purolator; Type replaceable paper element. Cooling medium temperature control: Thermostat.

REPAIRS AND ADJUSTMENTS A small amount of oil leaked from transmission drive during test.

REMARKS All test results were determined from observed data and without allowances, additions, or deductions. Tests B and F were made with carburetor set for 100% maximum belt horsepower and data from these tests were used in determining the horsepower to be developed in tests D and H, respectively. Tests C, D, E, G, H and J were made with the same carburetor setting.

HORSEPOWER SUMMARY

	Draw-bar	Belt
1. Sea level (calculated) maximum horsepower (based on 60° F. and 29.92" Hg.)	25.45	29.79
2. Observed maximum horsepower (tests F & B)	24.32	28.43
3. Seventy-five per cent of calculated maximum drawbar horsepower and eighty-five per cent of calculated maximum belt horsepower (formerly ASAE and SAE ratings)	19.09	25.32

We, the undersigned, certify that this is a true and correct report of official tractor test No. 432.

L. F. Larsen
Engineer in Charge

C. W. St...
F. D. Y...
L. W. Hurlbut
Board of Tractor
Test Engineers

TURNER
Stationary
HAY BALERS

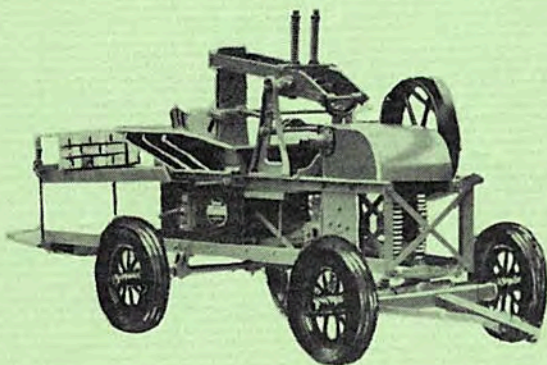


TURNER
Manufacturing Co.
Statesville, N. C., U. S. A.

★ *Easily Jeep-powered, with a model to fit any hay baling job!*

Economical, trouble-free, low cost balers!

These are TURNER'S stationary Balers, with a size and model to fit all baling needs. TURNER was the first to get away from horse drawn balers. Ready now, are three sizes and standard four-wheel or special two-wheel models, with either belt or power take-off power transmission.



MODELS

- 14 x 18 Standard**
(- with 4 steel wheels)
- 16 x 18 Standard**
(- with 4 steel wheels)
- 16 x 18 Backgeared**
(- with 4 steel wheels)
- 16 x 18 - 2 wheel**
- 17 x 20 - Standard and 2 wheel**

TURNER 14 x 18 Balers

This is TURNER'S most famous Baler, a plain bearing baler with or without self feed. Feed opening is 14" x 22", capacity 8 to 10 tons per 10 hour run, of 60 to 70 pound bales. Weight 1900 pounds. Small twin gears impart more power with less wear; has automatic self tramper, improved block dropper. Will do all kinds of baling.



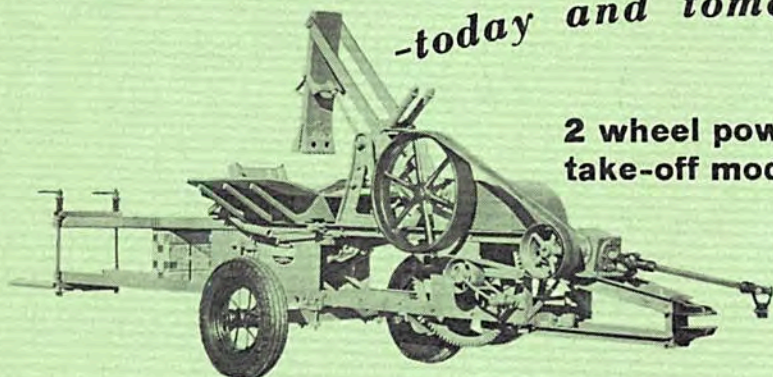
TURNER Hay Balers

Turner Manufacturing Company
Statesville, N. C., U. S. A.

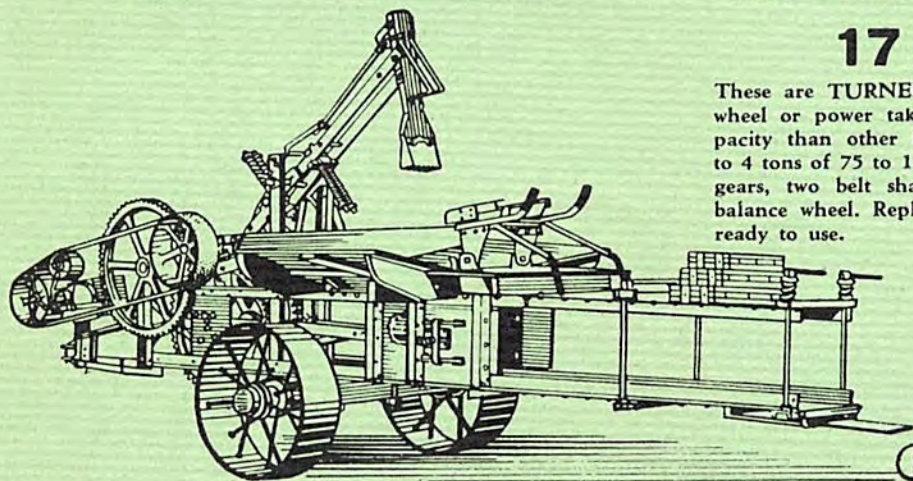
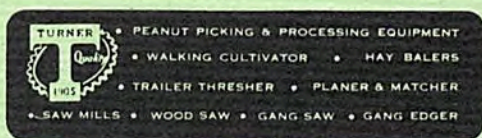
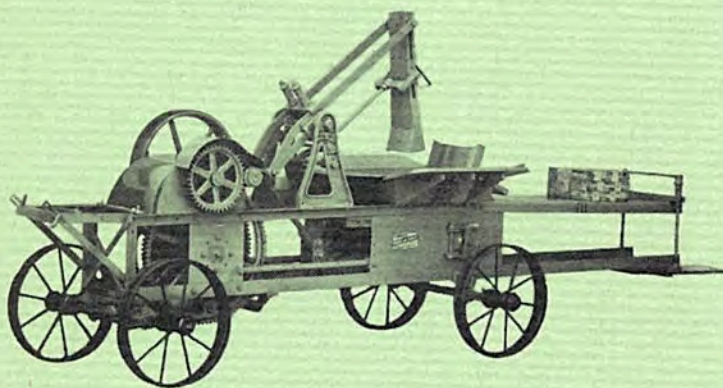
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FOR BALING PROFIT

-today and tomorrow!



2 wheel power take-off model



TURNER — Hay Balers

16 x 18 models

2 Wheel

The TURNER two-wheel baler is unusually adaptable to the baling job. It can be quickly towed and a Jeep furnishes smooth, steady baling power, either for stack baling or for baling while the baler is pulled through the field. Can be equipped with power take-off or pulley for belt transmission.

Standard

This baler can be had with either dust-proof plain or roller bearings. Feed opening is 16 x 22. Bale weight adjustable from 65 to 100 lbs. Alemite lubrication. Cast iron twin driving gears provide extra power and durability. Perforated steel bottom of baling chamber is removable.

4 Wheel - backgeared

Shown is the TURNER 16 x 18 roller bearing backgeared baler with tramper, built for extra heavy duty baling. Bales up to 14 tons per day of 75 to 85 pound bales. Weight of baler complete is 2500 pounds. Especially favored for custom baling.

17 x 20 Models

These are TURNER'S extra heavy power balers, in either 4 wheel or power take-off models, with more strength and capacity than other balers of comparable weight. Bales 2-1/2 to 4 tons of 75 to 125 lb. bales per hour. Has two intermediate gears, two belt shaft pinions meshing with them and one balance wheel. Replaceable bushings. Weight 4200 lbs. comes ready to use.

TURNER
Manufacturing Co.

STATESVILLE, N. C., U. S. A.

Add 80% More

FLOOR LOADING SPACE ON YOUR JEEP with a **DENCO BODY EXTENSION!**



**ONLY
10 minutes
TO INSTALL A DENCO
EXTENSION BODY**

The Denco Body Extension pioneered the folding collapsible Extension Body for Jeeps. It was introduced to permit the carrying of bulkier loads and longer materials. Actually it adds more than 80% of floor loading space by adding more than 7 cubic feet of extra capacity to the Jeep. It can be installed in less than 10 minutes. The tailgate is removed and attached to the rear of the Extension. The Extension is then attached to the body of the Jeep using the tail gate hinges and two clamps that are part of the Extension. Two bolts tighten it to the Body and two support rods attached to the draw bar complete the installation. There are no holes to drill, no cutting or fitting required.

DESIGNED AND MANUFACTURED BY

DENCO PRODUCTS, INC.

640 National City Bank Building
CLEVELAND 14, OHIO

Features OF THE DENCO **BODY EXTENSION**

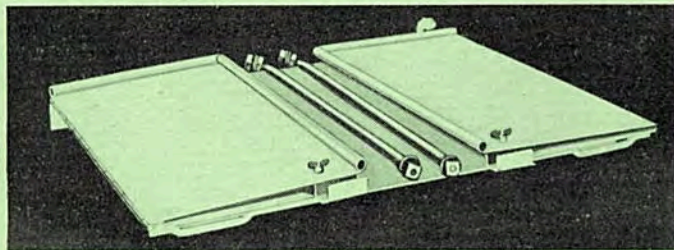
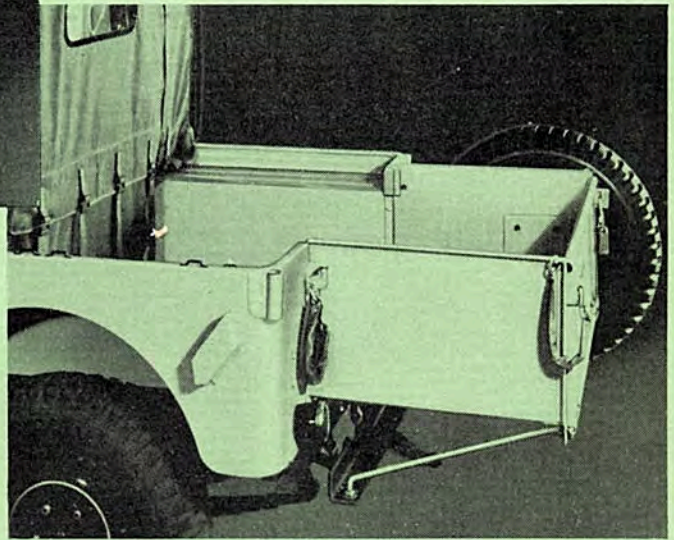


Protects Spare Tire

Installation of a Denco Body Extension supplies an important safety location for the extra tire and wheel by moving them from the body of the Jeep to a protected position on the side of the Extension Body. Being inside the outside line of the Jeep they are protected against side swiping in traffic or parking. (See opposite photo.)

Strong—Can Carry Over 600 Pounds!

The Denco Extension was designed to provide strong rugged service and lasting qualities. The floor and sides are made of high tensile steel. The hinges are an integral part of the sides and floor. Each unit has a prime coat of quality paint.



Folds Flat For Storage

Denco is proud to have introduced the folding collapsible Extension Body. This feature saves tremendous space in the distributor's and dealer's store room, in shipping and for the Jeep operator should he desire to remove the extension. (See opposite photo.)

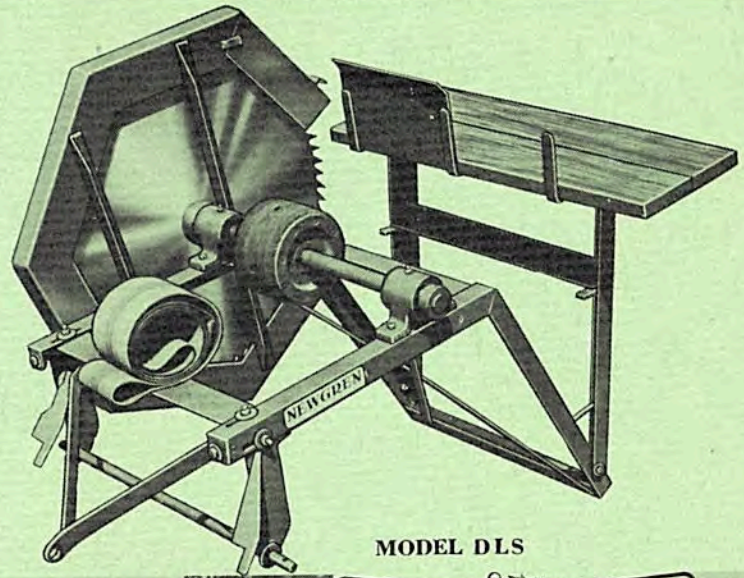
DESIGNED AND MANUFACTURED BY

DENCO PRODUCTS, INC. 640 National City Bank Building
CLEVELAND 14, OHIO

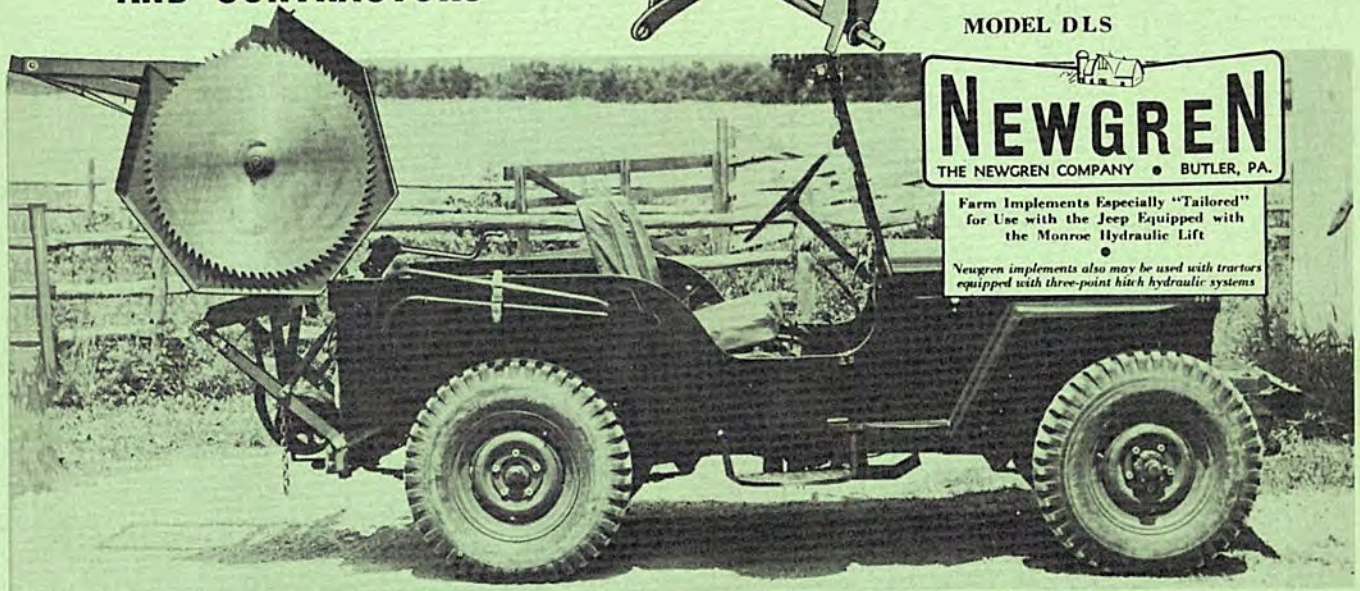
NEWGREN LIFT-TYPE BUZZ SAW

SAWING MADE EASIER MADE FASTER

-FOR BOTH FARMERS AND CONTRACTORS



MODEL DLS



THE JEEP GETS IT TO THE JOB FASTER, TOO

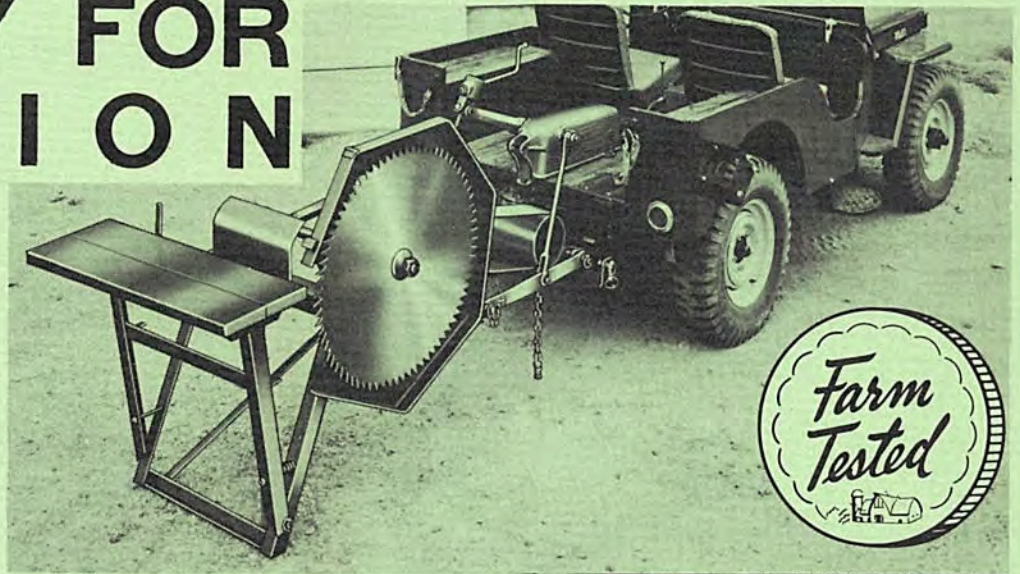
The Newgren Lift-Type Buzz Saw will operate anywhere the rugged, four-wheel-drive Jeep will travel. Raised to transport position by the Monroe Hydraulic Lift, this tool is completely portable, easily lowered to operating position where it requires no braces for steadiness, and gives you the capacity to cut cordwood, fence

posts, tree limbs, railroad ties or other wood up to approximately 12 inches in diameter. With a steel laced belt connected to the Jeep power take-off at the rear, the saw gives even, vibration-free cutting efficiency. Protection to the operator is afforded by a heavy steel blade guard that extends around the saw edge.

Newgren Also Offers a Standard Buzz Saw (Model BM-S) for Jeeps Not Equipped with Hydraulic Lifts. Similar Construction Except for Lift Connections and Lift Advantages.

THE NEWGREN COMPANY • BUTLER, PA.

READY FOR ACTION



- AND THEN →

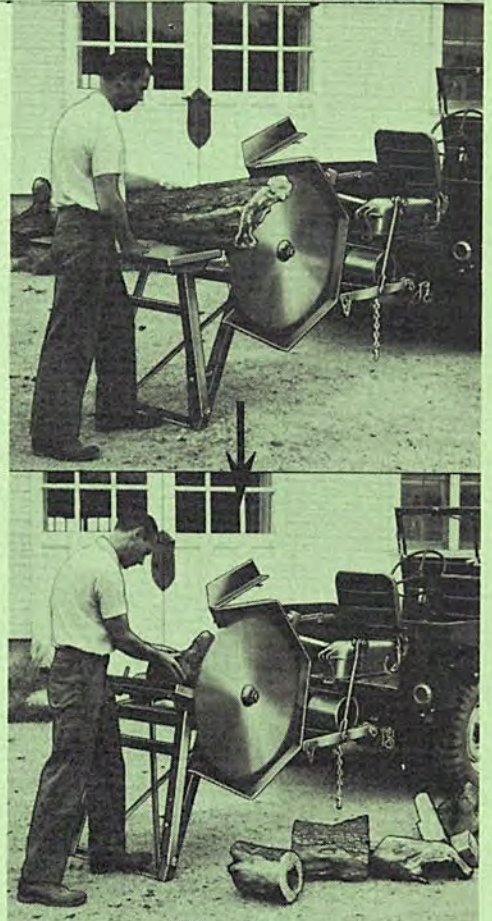
With just a few minutes to attach the Newgren saw to the Jeep power take-off and hydraulic lift, the saw is ready for operation. The Jeep governor is opened to the desired speed—generally three-quarters open—and the wood is placed on a convenient table in position for cutting. Holding the wood firmly against the table back shield, the entire table simply pushes forward, causing the wood to engage the teeth of the saw. No pressure on the wood is required, and when the cut is made, a spring returns the table to its first position.

SAFETY PRECAUTIONS

A few safety precautions should be remembered by any operator. Don't stand directly in line with blade. Never leave saw unattended. Never reach across saw. Don't wear gloves with large cuffs or loose clothing. Keep the operation in a clear area and don't allow cut pieces to pile up under saw blade. Close Jeep throttle to idling position and stop saw from turning before lifting to transport position with lift. Don't try to offset a dull saw blade with greater feeding pressure. Sharpen the blade and set the teeth.

SPECIFICATIONS—Saw blade diameter 28 to 32 inches. Cutting capacity, approximately 12 inches. Steel laced belt with adjustable frame belt tightener. Pulley, 7½ in. diameter with 5 in. face. Zerk lubrication. Shipping weight, 185 lbs. Automatic return spring on table.

The Newgren Company reserves the right to change specifications and design without incurring obligation.

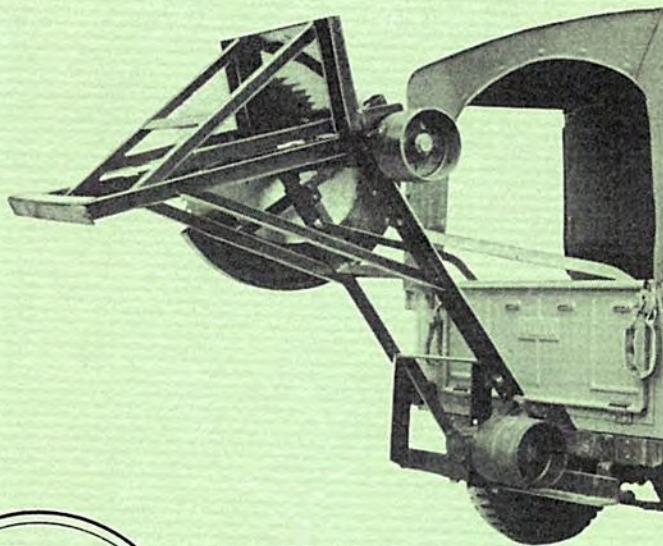


THE NEWGREN COMPANY

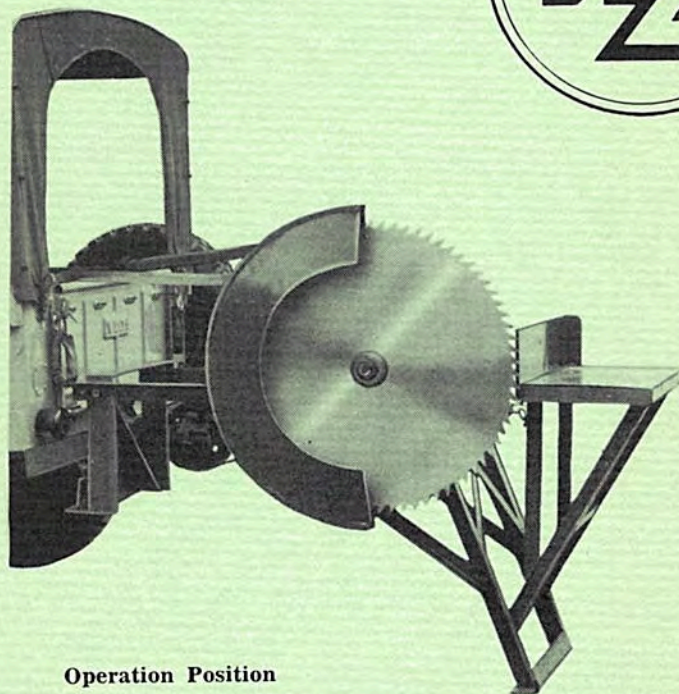
Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

H & Z COMBINATION CORDWOOD SAW

Presenting
Read value
On cordwood saws
For farmers who
Intend to get
The profit out of
Sawing wood



Transport Position



Operation Position

Portable or stationary
Rigid welded construction
Operated with ease
Fine quality blade
Instantly attached (to Jeep)
Tilt table can't clog
Safe and efficient

HERTZLER & ZOOK PRODUCTS **Belleville, Penna.**

H & Z COMBINATION CORDWOOD SAW

The H & Z combination cordwood saw is built with all the "know how" of over fifty years of manufacturing experience. The comments and criticisms representing thousands of satisfied users have controlled the design and construction of this superior saw.

Especially adapted for use with the 'Jeep', The H & Z Combination Cordwood Saw is already serving many, many 'Jeep' owners, paying for itself quickly through earnings or savings. Every 'Jeep' owner should consider what this important implement can do for him.

Every 'Jeep' equipped with the power take-off can carry a cordwood saw directly to the woodlot; thus, a savings in time and handling. No need to bring cumbersome logs to the saw.

Take advantage of cordwood to cut costs and bring in profits.

**READILY
CONVERTED
FOR
STATIONARY
USE**



**ALL
NECESSARY
CONVERSION
PARTS
INCLUDED**

Stationary Position

SPECIFICATIONS

MANDREL: Carbon steel, 36"x1 7/16", 1 3/8" arbor.

BEARINGS: Solid, safety type bearings, babbitt lined, equipped with Zerk fittings.

SAW BLADE: High quality, 30" circular blade, 10 gauge, 76 teeth supplied as standard equipment.

TABLE: Steel, tilting table, won't clog with saw dust, 12 1/2"x28" surface.

PULLEY: 8" cast iron pulley with 6" crown face.

FRAME: Welded angle iron, heavily braced, can be simply converted for portable or stationary use.

BELT: 5"-4 ply high quality black rubber belting supplied as standard equipment.

HITCH: Welded strip steel construction, amply braced, bolts securely to 'Jeep' draw bar.

Instructions with each saw for setup and operation

HERTZLER & ZOOK PRODUCTS

Belleville, Penna.

FORM 148-W

NEWGREN ROW-CROP CULTIVATOR

Model No.
RRC-C8

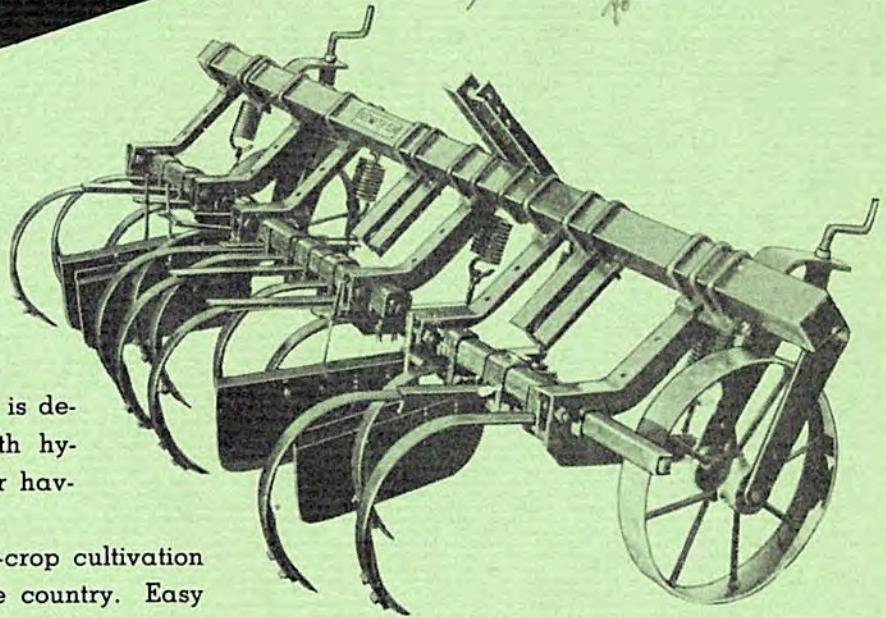
The Newgren Row-Crop Cultivator is designed for the Jeep equipped with hydraulic linkage system and tractor having three point hydraulic hitch.

This unit meets almost all row-crop cultivation requirements in all sections of the country. Easy adjustment in the field is made for all crops from 18 inch beet rows to 42 inch corn rows. Each gang is controlled by two coil springs as well as having a set screw adjustment to raise or lower the gangs independently. This flexibility assures a real cultivating job under any soil condition. The cultivator can be shifted so it can then be used as a light Field Cultivator or drag. The hydraulic control lever at the driver's seat raises or lowers the cultivator for depth adjustment. The two wheels at each end of the cultivator frame provide stability of the cultivator on hillsides, keeping cultivator in correct position in the rows. Wheels are made adjustable to give maximum depth.

Main frame construction of square steel tubing

FOR USE WITH THE JEEP EQUIPPED WITH MONROE HYDRAULIC LIFT OR SIMILAR SYSTEMS, OR TRACTORS HAVING THREE POINT HITCH AND HYDRAULIC LINKAGE SYSTEMS.

*See farm & Tractor Dept. Co.
4-row cult. in Midwest
holder for Jeep.*



gives a maximum of strength and yet is light in weight to make handling and attaching easy. The alloy spring steel teeth have been scientifically tempered to avoid breaking or bending out of shape. Long wearing shovels are furnished as standard equipment and may be interchanged with any standard shovel or sweeps.

Operating the row-crop cultivator is very simple. A guide fastened to the front bumper, extending outward along the Jeep's side, is adjusted over the crop row on the driver's side. Jeep side mirror may also be used in checking cultivator at rear.

THE NEWGREN COMPANY

Equipment Tailored For The Jeep

730 Phillips Avenue

Toledo 12, Ohio

WILLYS-OVERLAND EQUIPMENT BOOK



Jeep shown above cultivating corn with the Newgren Row-Crop Cultivator.



◀ Front view of Jeep showing Row-Crop Cultivator using row guide attached to front bumper.

SPECIFICATIONS

Standard Width—8' 4" wide. Extends to 9' 4" with available extension bars.

Shipping Weight—395 lbs.

Clearance—Ample clearance for working crops up to 20 inches.

Teeth—17 spring teeth of high grade alloy steel equipped with 2" reversible shovels. Standard sweeps and shovel also available.

Row Width—3 26" to 32" rows or 2 42" rows or less can be cultivated with standard equipment.

Application—Directly to linkage system arms on Jeep or tractor. Brackets can also be furnished for attaching cultivator to any cultivating type tractor.

When ordering, specify type of Jeep hydraulic lift or name of tractor used on.

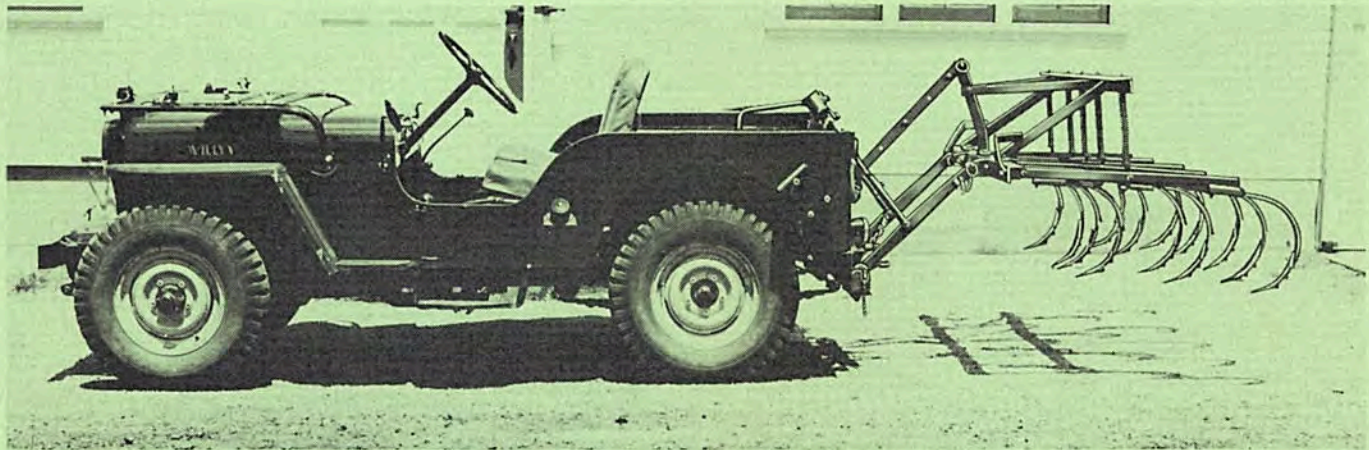
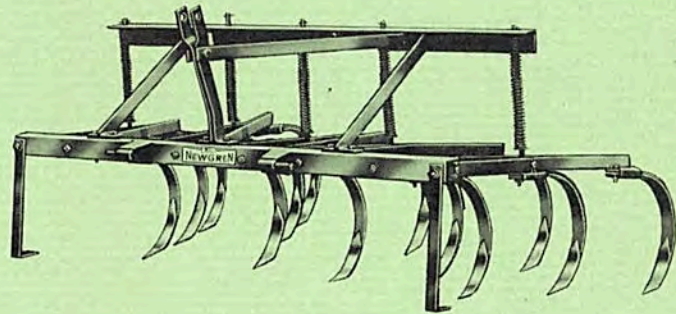
NEWGREN FIELD AND PASTURE CULTIVATOR

A LOW-COST TILLAGE TOOL with 60-SECOND LIFT ATTACHMENT for **SPRING-TO-FALL UTILITY**



Farm Implements Especially "Tailored" for Use with the Jeep Equipped with the Monroe Hydraulic Lift

Newgren implements also may be used with tractors equipped with three-point hitch hydraulic systems



THROUGHOUT THE FARM . . . "TAILORED FOR THE JOB"

In combination with the sure-footedness of the four-wheel-drive Jeep and the touch control and down pressure of the Monroe Hydraulic Lift, this "tailored" Newgren cultivator is just the implement for a wide range of farm tasks—from soil preparation in the spring to working over stubble in the fall.

You can attach it to the Monroe Lift or detach it in 60 seconds. You have the full advantage of the adjustable down pressure of the lift for good penetration. You can use

this cultivator for breaking hard, dry soil . . . for preparing seed beds . . . for pasture cultivation . . . for working around fruit trees in the orchard. In the summer, it's an effective weed killer in summer fallow and other fields. You can maneuver in close corners, close to trees and along fence rows.

Here is a low-cost tool you can't afford to be without. A demonstration with the Monroe Lift-equipped Jeep will show you why.

THE NEWGREN COMPANY • BUTLER, PA.

FOUR OF MANY FARM USES



BREAKING HARD, DRY SOIL



PREPARING A SEED BED



PASTURE CULTIVATION



VINEYARDS AND ORCHARDS

USES 5 TO ALL 13 TEETH— As many as eight of the 13 forged and tempered spring teeth may be removed for deep tillage in dry, hard summer soil. Excellent results may be obtained with five teeth or nine teeth, for example, or any number up to the full 13, depending on soil conditions and the job to be done. Teeth are built to stand a maximum of strain and lift pressure without bending or breaking and shovels are long wearing and double-pointed. Wide selection of shovels available.

The cultivator itself is of rugged all-steel construction for years of service, and individual gangs assure a thorough cultivation job in practically every type of soil. Folding supports prevent implement from tipping over when detached. Weight, 280 pounds.

The Newgren Company reserves the right to change specifications and design without incurring obligation.

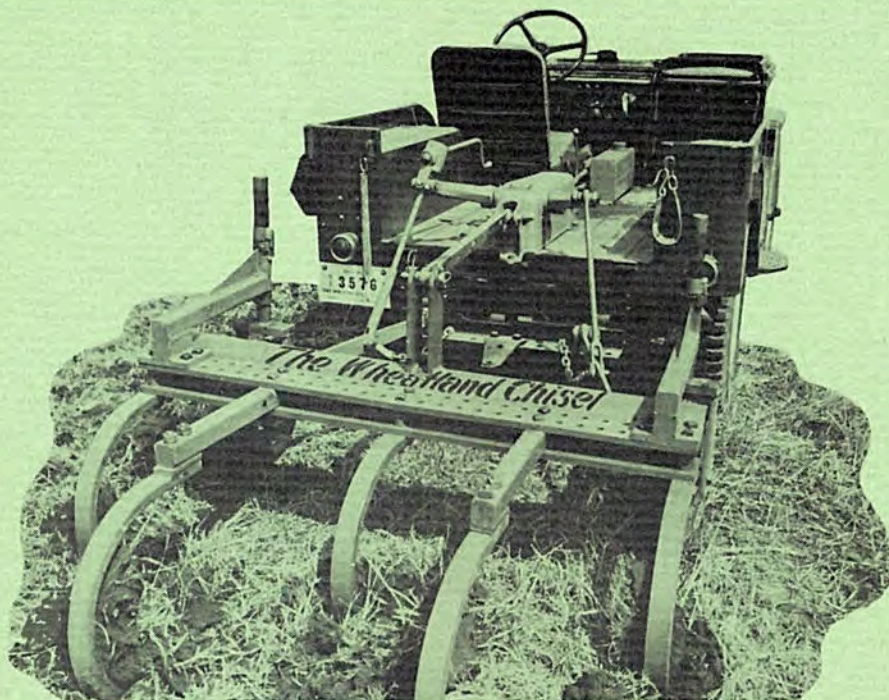
THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

The Wheatland Chisel

A VERSATILE NEW JEEP-DRAWN CHISEL



ALL-PURPOSE IMPLEMENT — The jeep-drawn Wheatland Chisel works equally well with chisels, spikes or sweeps in any type soil. A complete unit, designed and built especially for varied types of farming.

EASY OPERATION — Hooking and unhooking the Wheatland Chisel to and from the Jeep's power-lift is only a 10-minute job... only three pins to handle in each operation. Extremely high lift lets you move from one point to another without unhooking and rehooking for each move. Extra standard 2-inch tool bar is available for use with all standard tool bar attachments from 2 to 2½ inches.

ACCURATE CONTROL—Push-button power-lift control raises and lowers the Wheatland Chisel instantly. Points are fitted so that adjustment to proper row widths and depths is quick and easy.

STURDY CONSTRUCTION — The Wheatland Chisel is manufactured of high-carbon, cold-rolled steels only, with tubular-welded construction. Pneumatic tires on wheels. Axles equipped with heavy duty Timken bearings.

McCLUNEY & BROWN
MANUFACTURING COMPANY

205 MORNINGSIDE DRIVE

FORT WORTH, TEXAS

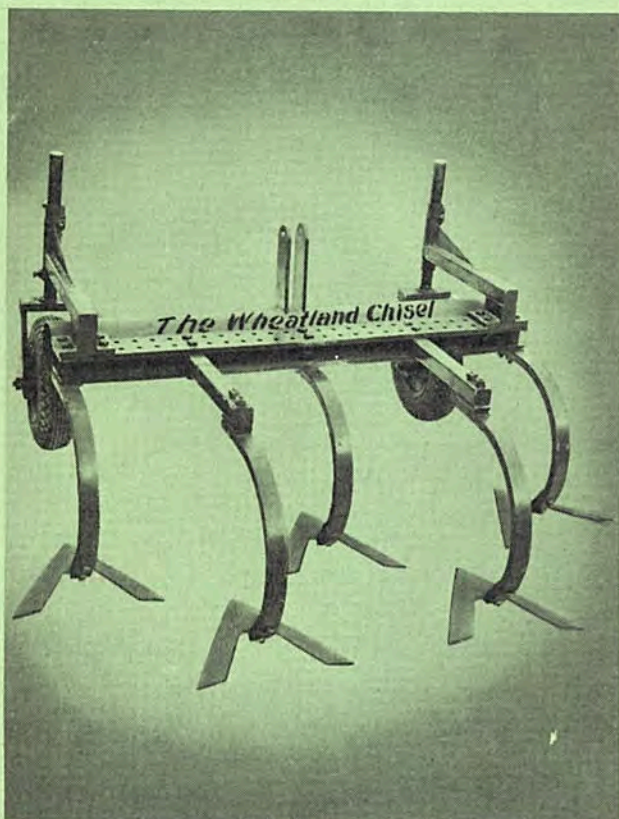
WILLYS-OVERLAND EQUIPMENT BOOK

POWER - LIFT OR DRAG TYPE

The power-lift model of the Wheatland Chisel is designed for use with the Jeep's Monroe Hydraulic lift, or similar systems, and for use with tractors having a 3-point hitch or hydraulic linkage system.

The drag-type model is of the same material and general design, with a patented hitch that enables the operator to level while in operation.

WHEN ORDERING, SPECIFY THE TYPE OF JEEP HYDRAULIC SYSTEM YOU ARE USING, OR THE NAME OF THE TRACTOR YOU OWN.



205 MORNINGSIDE DRIVE

SPECIFICATIONS

8-FOOT MODEL

8 ft. Frame width: 85 $\frac{3}{4}$ " • Cuts 100" of soil with standard 16" sweeps • Trash clearance between Chisel points and frame—20 inches • Equipped with 7 shanks and points (more shanks may be used) • Gauge wheels have 4" x 8" tires • Wheels equipped with grease-sealed heavy duty Timken bearings • High-carbon, cold-rolled steel, tubular welded • Main beam drilled at 2" intervals so any number of shanks or attachments may be used.

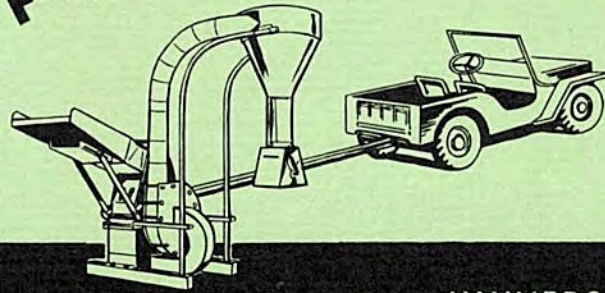
6-FOOT MODEL

Same specifications as the 8-foot model above, with these exceptions:
Frame width: 57 $\frac{3}{4}$ " • Cuts 72" of soil with standard 16" sweeps • Equipped with 5 shanks and points (more shanks may be used).

McCLUNEY & BROWN
MANUFACTURING COMPANY

FORT WORTH, TEXAS

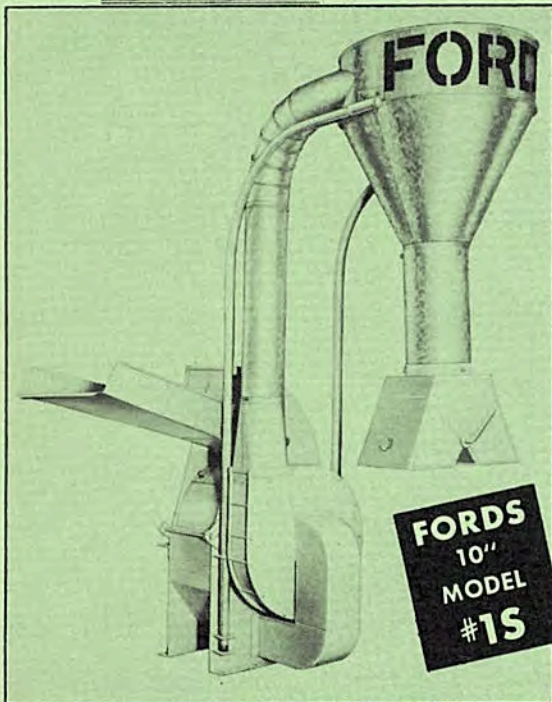
A HONEY OF A COMBINATION



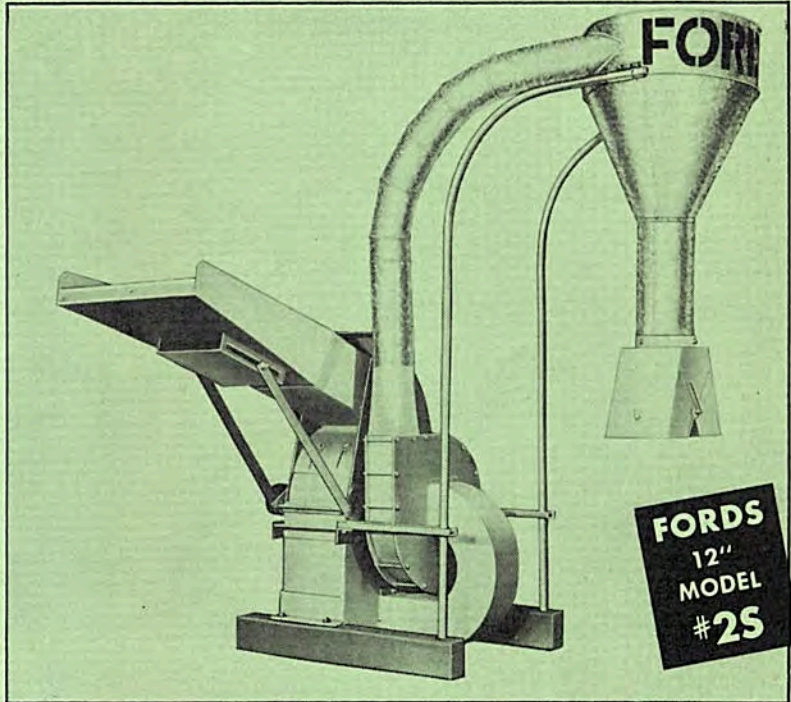
A FORDS HAMMERMILL

powered by the

UNIVERSAL 'Jeep'



FORDS 10" MODEL #15



FORDS 12" MODEL #25

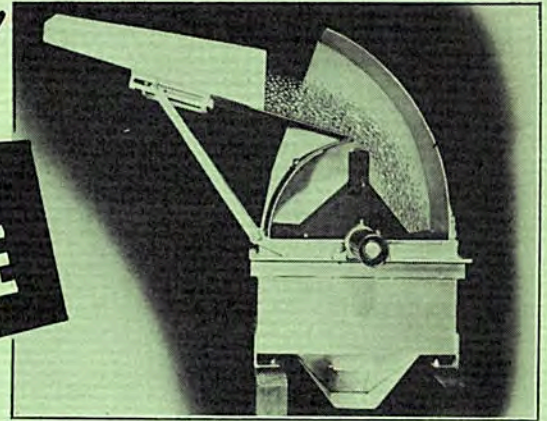
- CUTS FEED COSTS!
- GRIND MORE FEED WITH LESS POWER!
- SAVE VALUABLE GRAINS FOR MARKETING!
- SAVE TIME!
- SAVE MILLING COSTS!
- INCREASE LIVESTOCK CONSUMPTION OF LOW COST ROUGHAGE!
- ELIMINATE GROUND FEED STORAGE PROBLEMS!

Only **FORDS HAMMERMILLS** *have the.....*

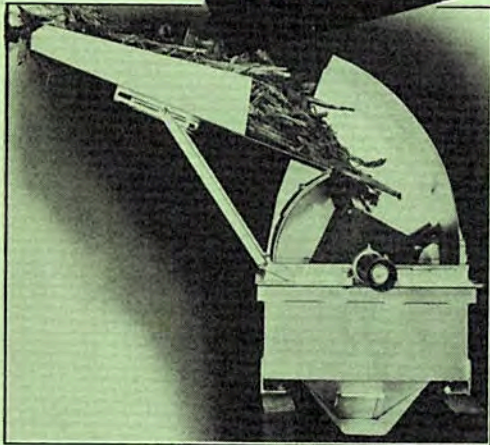
For Orders Outside Territorial U. S. A. Send Inquiries to WILLYS-OVERLAND EXPORT Corp., Toledo 1, Ohio.

Exclusive, Patented

**Adjustable
BAFFLE PLATE**



Adjustable Hopper Baffle Plate in Forward Position for Feeding Small Grains and Ear Corn.



Adjustable Hopper Baffle Plate Drawn Back for Feeding Roughage.

This sensational feature, exclusive with **FORDS** hammer mills, means perfect grinding of *all* sizes of material in *one* mill! With the baffle plate in forward position, the end of the feed hopper is centered directly above the center of the rotor. This permits faster, better grinding of small grains and ear corn because it eliminates the rolling of grain in the top of the mill, prevents it from throwing back and helps maintain proper grinding speed.

For grinding roughage, the adjustable baffle plate is drawn back. In this position the roughage feeds directly into the hammers. This is the easiest and best way of feeding light, bulky material because the hammers carry it right through the mill. That's why **FORDS** mills give both good grinding and large capacity with low power requirements.

SPECIFICATIONS

	Model #15	Model #25
Recommended Tractor Power	15 to 30 H. P.	15 to 30 H. P.
Mill Speed Under Load	2200-2800 RPM	2200-2800 RPM
Shipping Weight	325 lbs.	500 lbs.
Dust Collector Height— Wagon Box	129"	150"
Dust Collector Height— Bagger Height	87"	101"
Throat	10" wide, 13" high	12" wide, 13" high
Hammer Sweep	20½"	20½"
Inside Mill Dimensions	10" wide, 21" dia.	12" wide, 21½" dia.
Screen Area	334 sq. in.	397 sq. in.
Pipe (Heavy Gauge)	6" dia.	6" dia.
Bearings (Self-aligning)	Heavy Duty	Heavy Duty
Shaft (Cold rolled steel)	1½" dia.	1½" dia.
Standard Pulley (Neverslip)	4" dia.	4" dia.

MILL CAPACITY

	Model No. 25, 12" Mill*		
	FINE	MEDIUM	COARSE
Small Grain	800 to 2000 lbs.	2500 to 4000 lbs.	Liberal
Ear Corn	1200 to 2500 lbs.	3000 to 5000 lbs.	Increase
Shelled Corn	1500 to 2500 lbs.	3500 to 5500 lbs.	Assured
Corn Fodder	1000 to 2000 lbs.	2500 to 3000 lbs.	For
Hay	1000 to 2500 lbs.	2500 to 3500 lbs.	Coarse
Soybeans	1500 to 2500 lbs.	3000 to 5500 lbs.	Grinding

Capacity depends upon: (1) feeding, (2) speed of hammer, (3) horsepower, (4) fineness desired, (5) condition of material.

*Slightly less capacity with Model No. 15, 10" Mill.

The FORDS Line... *First with Farmers for 37 Years*

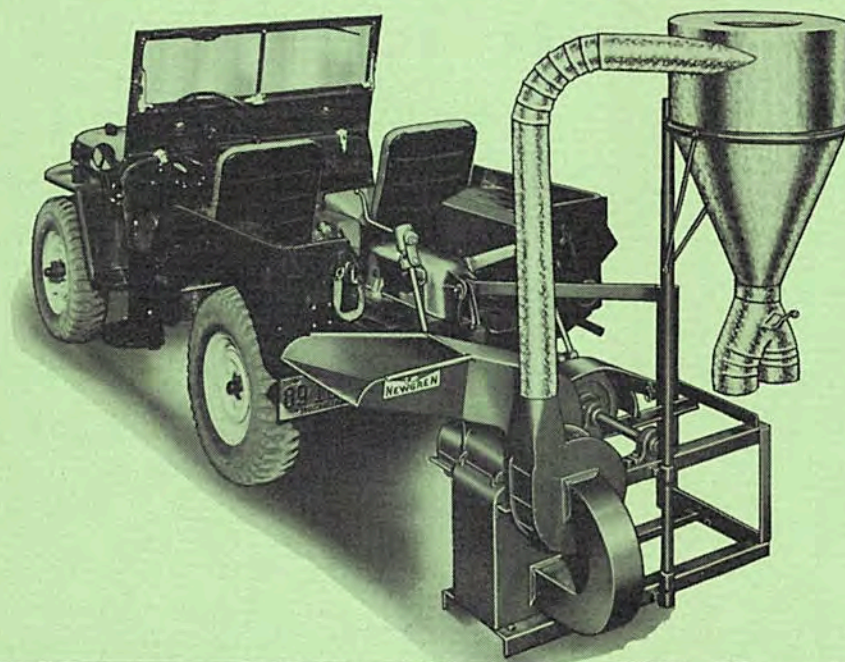


MYERS-SHERMAN CO.

STREATOR 1, ILLINOIS

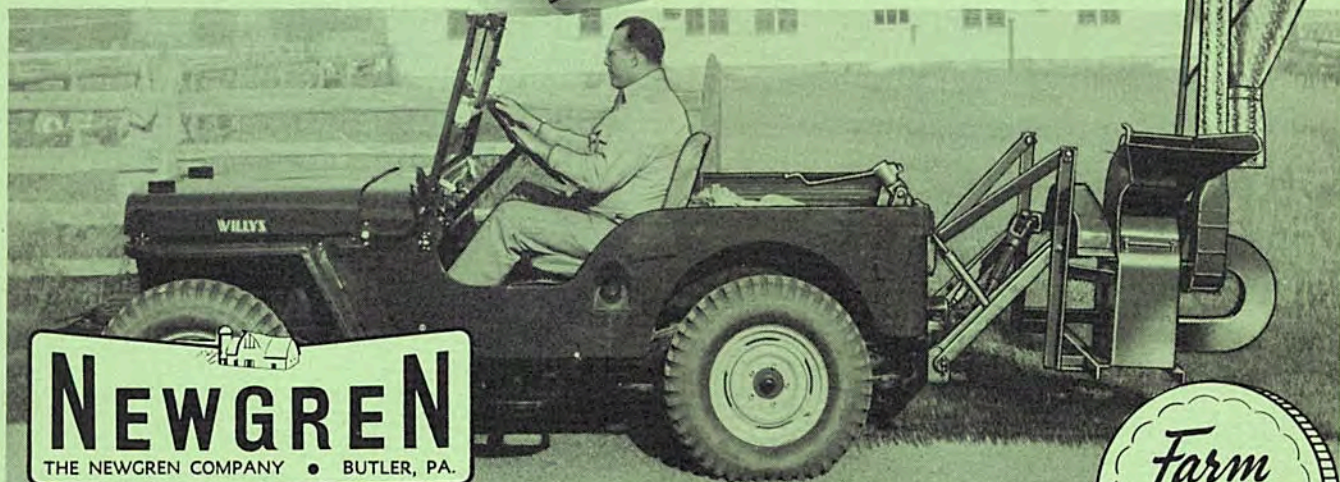
NEWGREN "PORTO-MILL" FEED GRINDER

**NEW ROTARY FEED MILL WITH
JEEP AND MONROE LIFT GIVES
FRESH GROUND FEED "On-the-Spot" AS IT'S NEEDED**



This valuable addition to the Newgren line of farm-tested equipment gives the farmer the means of grinding his own feed, anywhere on his farm without a long, unwieldy belt, at maximum speed and at minimum expense. The Newgren "Porto-Mill" feed grinder is attached to the arms of the Monroe Hydraulic Lift on the Jeep, and to the Jeep power take-off. Thus, it can be raised for fast transportation to and from the place on the farm where the feed is to be ground, and quickly attached or detached from the Jeep.

In addition to the Porto-Mill, Newgren offers the "Porto-Mill Drive," a specially designed structural steel framework that attaches to the Monroe Lift.



NEWGREN
THE NEWGREN COMPANY • BUTLER, PA.

Farm Implements Especially "Tailored" for Use with the Jeep Equipped with the Monroe Hydraulic Lift

Newgren implements also may be used with tractors equipped with three-point hitch hydraulic systems

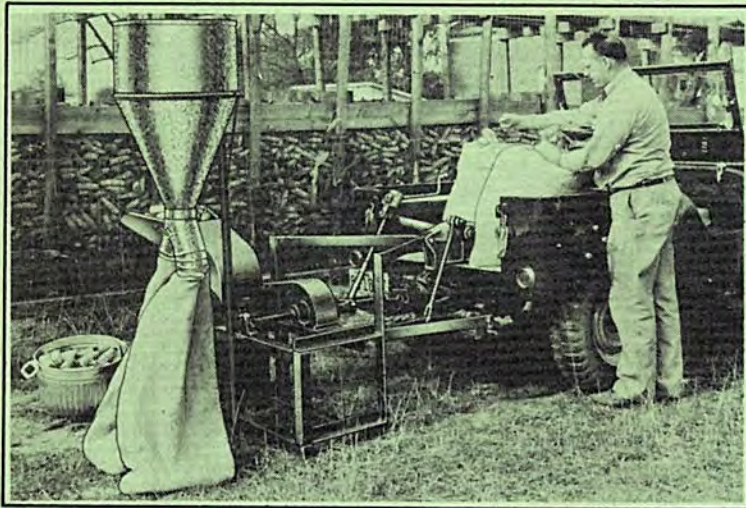
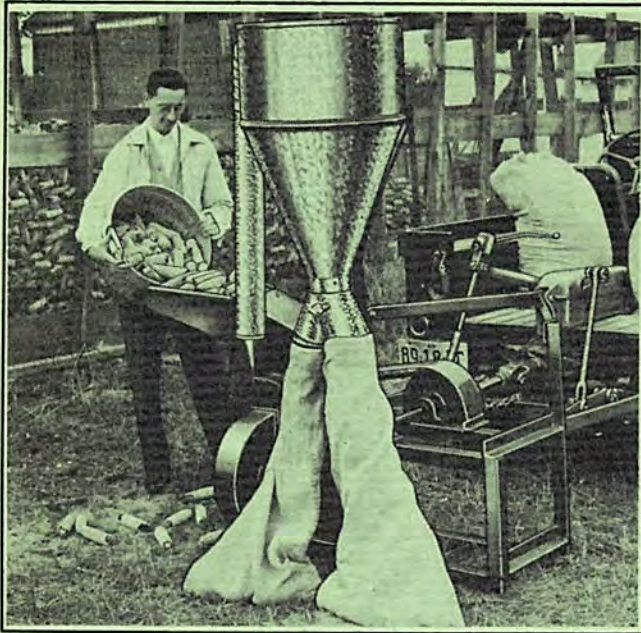
PORTO-MILL MODEL NO. MHS-8

PORTO-MILL DRIVE MODEL NO. MHL-8



THE NEWGREN COMPANY • BUTLER, PA.

ALL-AROUND-THE-FARM PORTABILITY WITH LARGER CAPACITIES, HIGHER SPEEDS TO CUT FEED COSTS



The Newgren Company reserves the right to change specifications and design without incurring obligation.

POWERED BY THE JEEP ENGINE

The only power needed for the Newgren Porto-Mill is the Jeep engine itself. A simple connection with the Jeep power take-off, and you have ample, easily-regulated power for any feed grinding requirement. All kinds of grain, cob corn, alfalfa, hay or roughage may be ground at small cost, giving the farmer fresh feed and therefore better feed for stock and chickens—without loss of time in grinding.

SPECIFICATIONS IN BRIEF

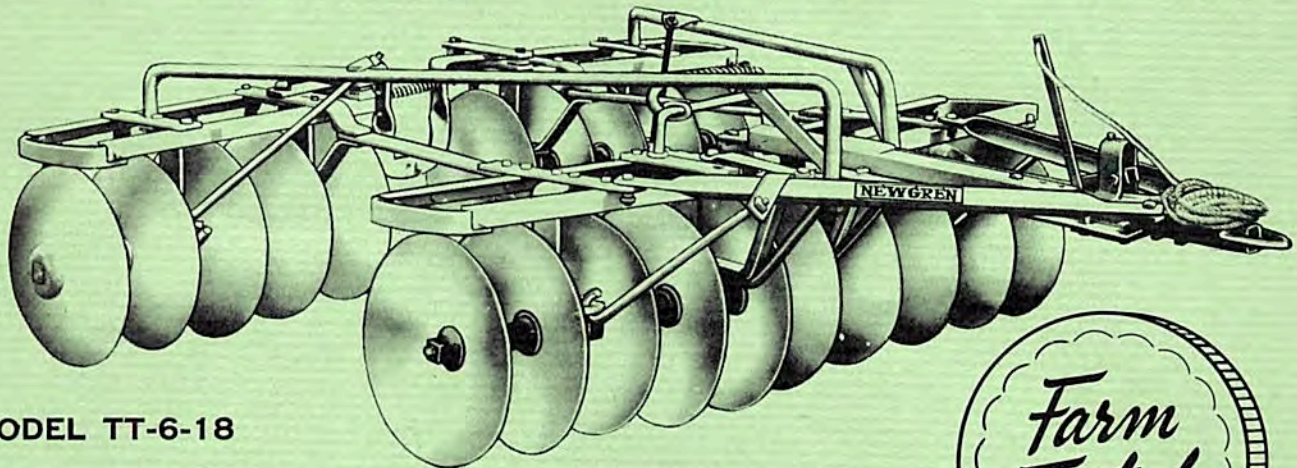
Sturdy sheet steel housing, welded throughout. 16 balanced, reversible swinging hammers. Precision balanced chrome-moly axle shaft mounted on two self-aligned, dustproof ball bearings. $\frac{3}{8}$ -inch screen standard equipment. Other screens— $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ or $\frac{3}{4}$ inch—available at extra cost. Extra screen clearance eliminates clogging. Operates at approximately 3,500 r.p.m. Chute and hood built to accommodate any material from small grains and ear corn to roughage. Long life fan forces ground grain in the air stream to the dust collector, high lofts or into bins that can be 50 to 100 feet distant.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

NEWGREN PULL-TYPE TANDEM DISC HARROW
EASILY HANDLED BY THE JEEP FOR
DISCING THAT PAYS



MODEL TT-6-18



Farmers can do an outstanding job of discing with any one of the four model sizes offered in this Newgren pull-type tandem disc harrow, especially designed and farm-tested for use with the Jeep. Here is a tool that is heavy enough to give excellent penetration, yet light enough for easy maneuvering with the Jeep, and simple enough in its sturdy construction to keep maintenance costs at a minimum. For working in any type of soil that requires discing, and for a perfect job on straightaways or turns, you'll find the Newgren harrow an implement that pays real dividends.



Farm Implements
 Especially "Tailored"
 For Use With the Jeep

FOUR SIZES AVAILABLE

MODEL TT-6-18
 6 ft., 18 in. Blades
 Weight, 950 lbs.

(Shown in photographs)

MODEL TT-7-18
 7 ft., 18 in. Blades
 Weight, 1,100 lbs.

MODEL TT-6-16
 6 ft., 16 in. Blades
 Weight, 900 lbs.

MODEL TT-7-16
 7 ft., 16 in. Blades
 Weight, 1,050 lbs.

THE NEWGREN COMPANY • BUTLER, PA.

For Orders Outside Territorial U. S. A. Send Inquiries to WILLYS-OVERLAND EXPORT Corp., Toledo 1, Ohio.

TRANSPORTING



CROSS-WORKING

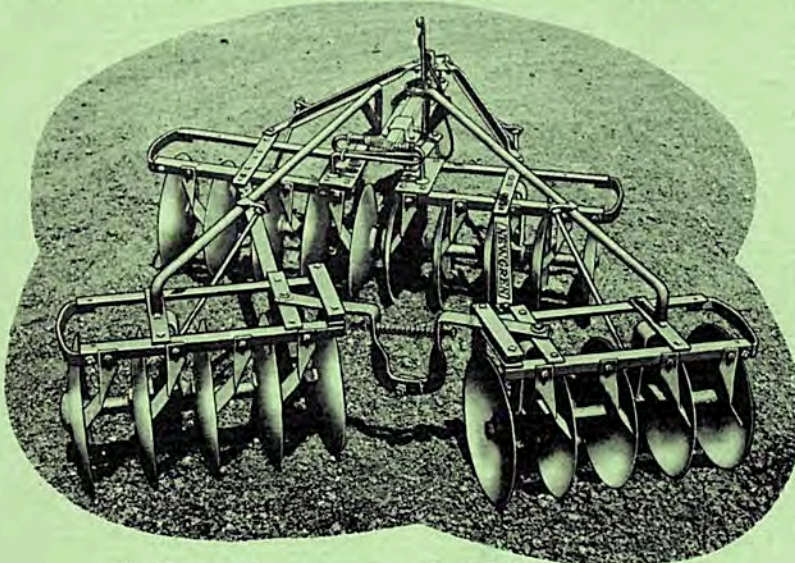


**NO CROWDING
AROUND CORNERS**

As shown in the photograph at the left, the rear gangs of the Newgren disc harrow cut around the corners without crowding or piling dirt, and without an increase in draft. Angling of the implement is made quickly and easily. An easy pull on the control rope and you drive ahead to angle the gangs. Or, you can straighten the gangs by pulling the rope and backing the Jeep.

Disc blades are electric heat treated with scrapers on both front and rear gangs. Spools are heavy steel. Welded construction is used throughout.

ADDED FEATURES—Frames of heavy high carbon steel. Large bearings are four-piece, oil impregnated hardwood and are quick removable. Oversize $1\frac{1}{8}$ in. axle shafts eliminate undue wear. Alemite fittings provided for fast lubrication.



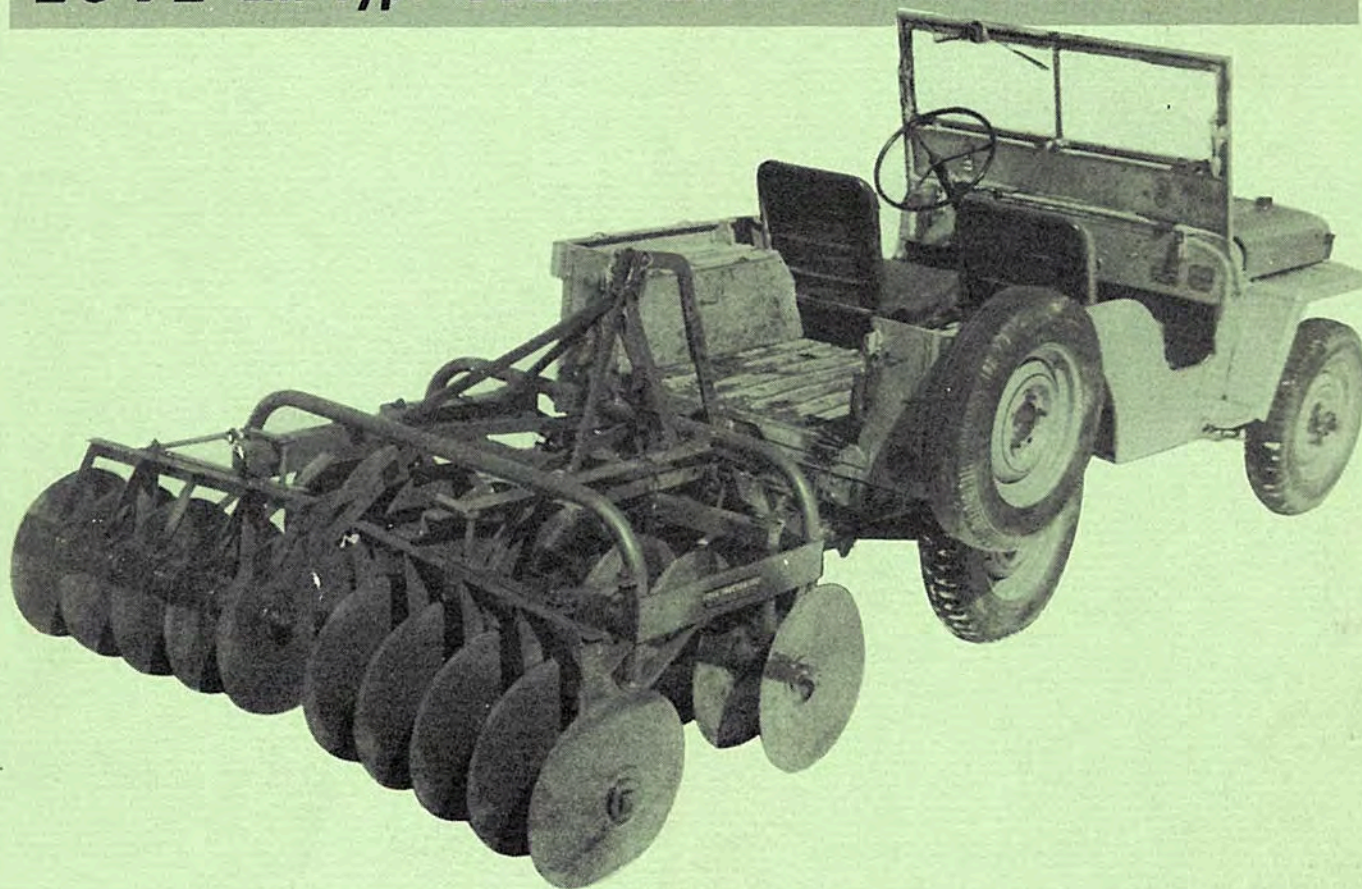
The Newgren Company reserves the right to change specifications and design without incurring obligation.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

LOVE Lift-Type **TANDEM DISC HARROW**



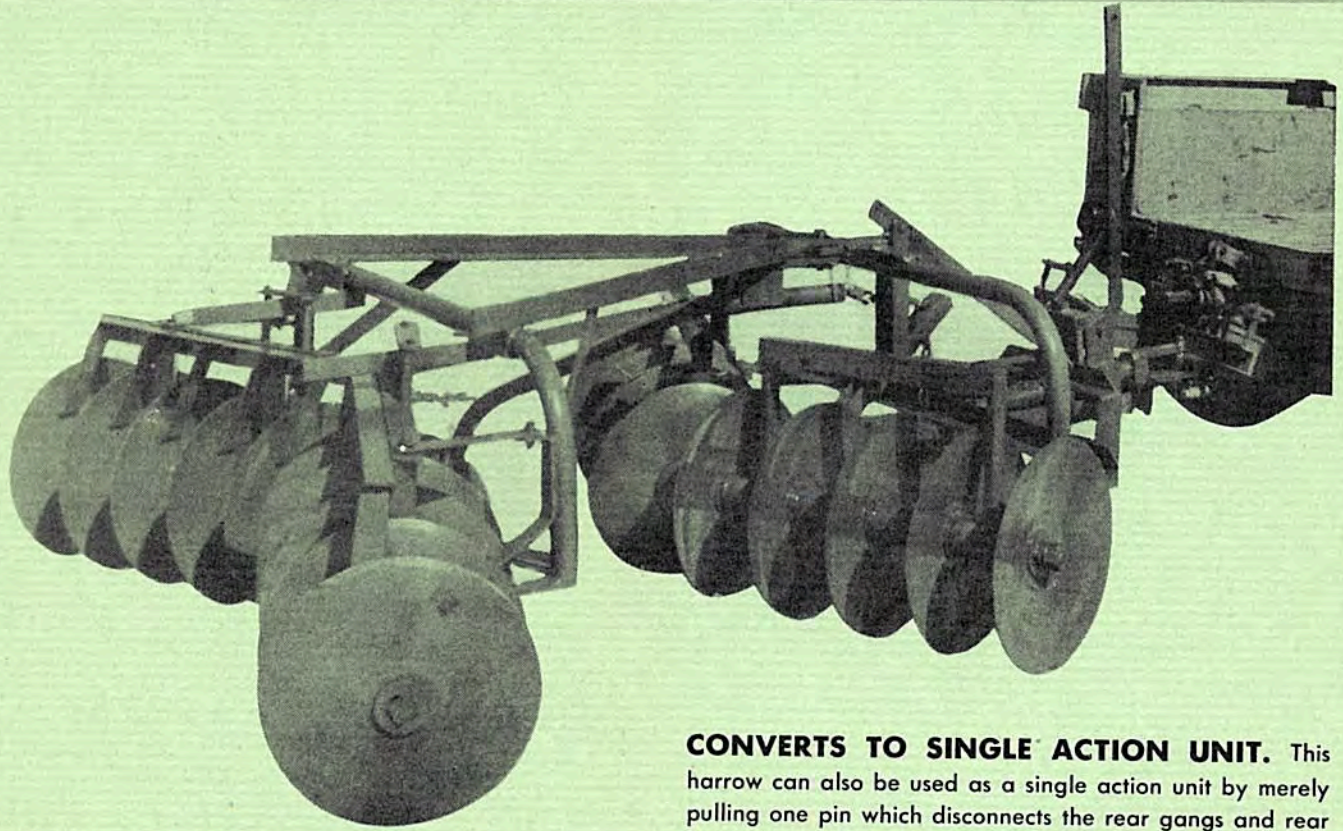
The patented Love lift-type tandem disc harrow attaches to all standard three-point type hydraulic linkage systems. Lifts completely off the ground for turning-backing-transporting. Modern, all steel welded construction, together with $7\frac{5}{8}$ inch wide blade spacing makes this an ideal unit for high speed operation with a 'Jeep.' Gangs are flexible to follow the contour of the ground. Angle of cut is easily adjustable by hand lever.

The Love lift-type tandem disc harrow can be supplied in 3 sizes as follows:

SIZE	CUTTING WIDTH INCHES	NO. OF BLADES	SIZE AXLES OR GANG BOLTS		SIZE BLADES IN INCHES	AND	APPROXIMATE SHIP WEIGHT
5 ft.	66	16	$\frac{7}{8}$ in.	$1\frac{1}{8}$ in.	16"—590 lbs.	18"—635 lbs.	20"—700 lbs.
6½ ft.	80	20	$\frac{7}{8}$ in.	$1\frac{1}{8}$ in.	16"—635 lbs.	18"—690 lbs.	20"—770 lbs.
8 ft.	97	24	$\frac{7}{8}$ in.	$1\frac{1}{8}$ in.	16"—700 lbs.	18"—760 lbs.	20"—860 lbs.

LOVE TRACTOR, INCORPORATED Eau Claire, Mich.

LOVE Draw-Bar Pull-Type Tandem **DISC HARROW**



CONSTRUCTION FEATURES. This all-steel, welded tandem disc-harrow is designed to do every type of discing job without loss of time for change-overs or setting. Exceptionally sturdy frame members of re-rolled steel angle iron and tubular tool bar stock welded together, with all stress-carrying joints braced for extra rigidity.

EXTRA LONG BEARING. More than 7 inches of oil impregnated hard maple bearings give extra bearing surface—more protection against dust and grit. Revolving on seamless high carbon steel spools, they do not grind out quickly like rough iron castings. Each bearing is lubricated by an Alemite high pressure fitting.

CONVERTS TO SINGLE ACTION UNIT. This harrow can also be used as a single action unit by merely pulling one pin which disconnects the rear gangs and rear frame assembly.

INDEPENDENT REAR GANG ADJUSTMENT. The rear gangs can be adjusted to cut more or less than the front gangs, without the use of wrenches or tools.

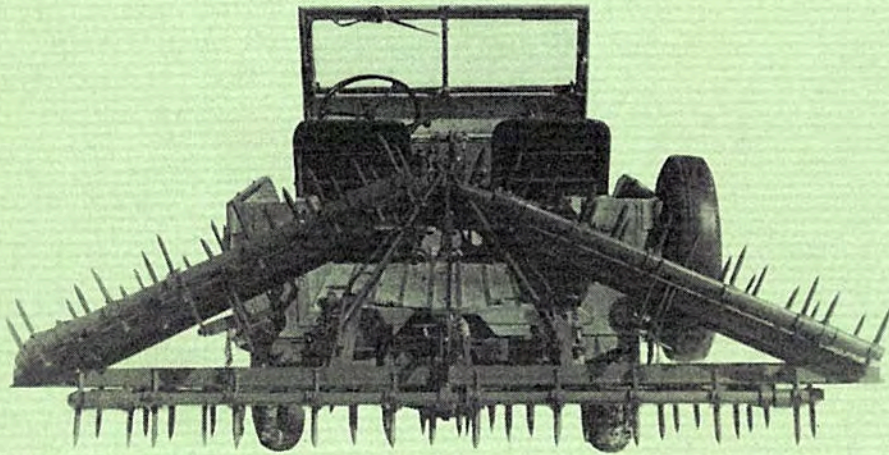
MAKE ANGLE SETTINGS FROM SEAT. Angle of cut is changed by backing 'Jeep' against automatic push-lever on draw-bar assembly. Setting is made without leaving seat.

The Love draw-bar pull-type tandem disc harrow can be supplied in 4 sizes as follows:

SIZE	CUTTING WIDTH INCHES	NO. OF BLADES	SIZE BLADES IN INCHES			SIZE OF AXLES OR GANG BOLTS		APPROXIMATE SHIP WEIGHT
5 ft.	66	16	16	18	20	7/8 in.	1 1/8 in.	596 lbs.
6 1/2 ft.	80	20	16	18	20	7/8 in.	1 1/8 in.	660 lbs.
8 ft.	97	24	16	18	20	7/8 in.	1 1/8 in.	720 lbs.
9 ft.	112	28	16	18	20	7/8 in.	1 1/8 in.	850 lbs.

LOVE TRACTOR, INCORPORATED Eau Claire, Mich.

LOVE SPIKE TOOTH HARROWS

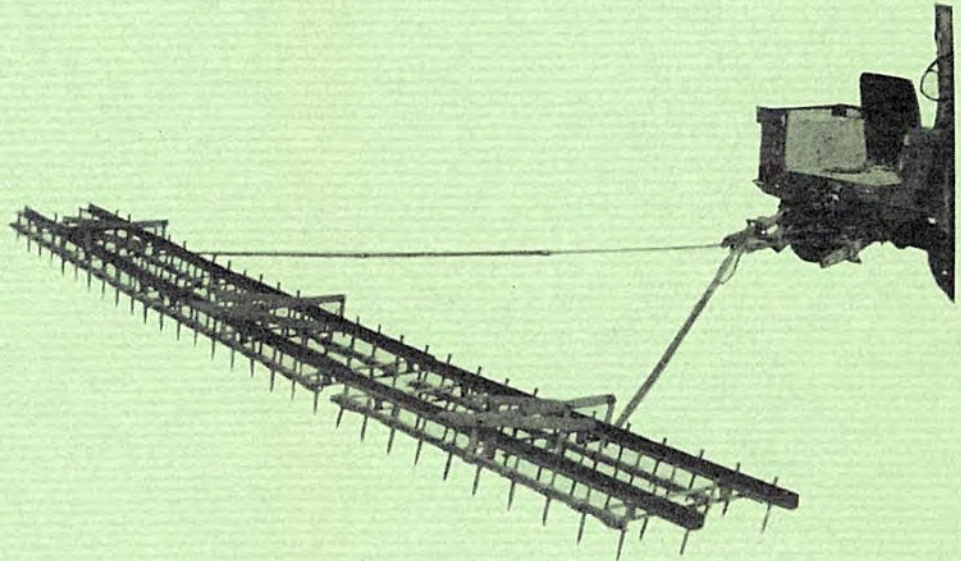


LIFT TYPE

This 15' flexible three-section 88-tooth harrow folds to a width of 8' for transporting through gates. This rugged, 435 pound unit is easily handled by all standard three-point-type hydraulic linkage systems. More flexibility can be obtained, if desired, by using the patented floating link hitch.

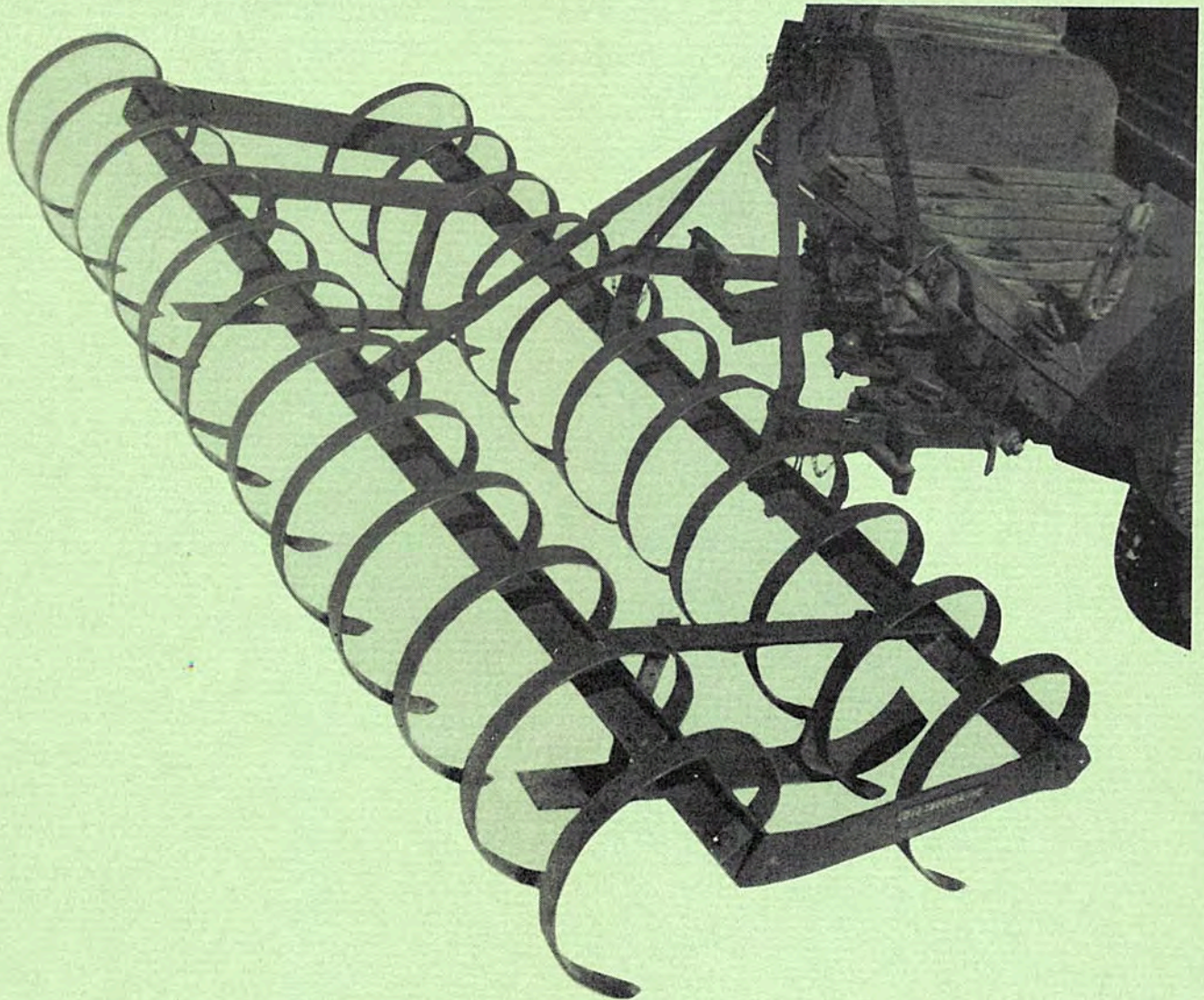
PULL TYPE

This draw-bar pull-type harrow has all of the rugged, all steel welded construction and modern features described above. This unit is available in a 15'-88 tooth model, a 24'-120 tooth model and a 31'-168 tooth model.



LOVE TRACTOR, INCORPORATED Eau Claire, Mich.

LOVE *Lift-Type* **SPRING TOOTH HARROW**



This flexible, lift-type spring tooth harrow is available in a 9'-23 tooth model or a 5'6"-15 tooth model.

Modern 2-bar design gives exceptional trash clearance and freedom from clogging. Teeth are permanently set at best cutting angle. Depth of cut is controlled by 2 adjustable runners. Teeth are made from toughest chrome-nickel alloy so that unit can be used for deep tilling operations. Teeth are drilled for standard replaceable points.

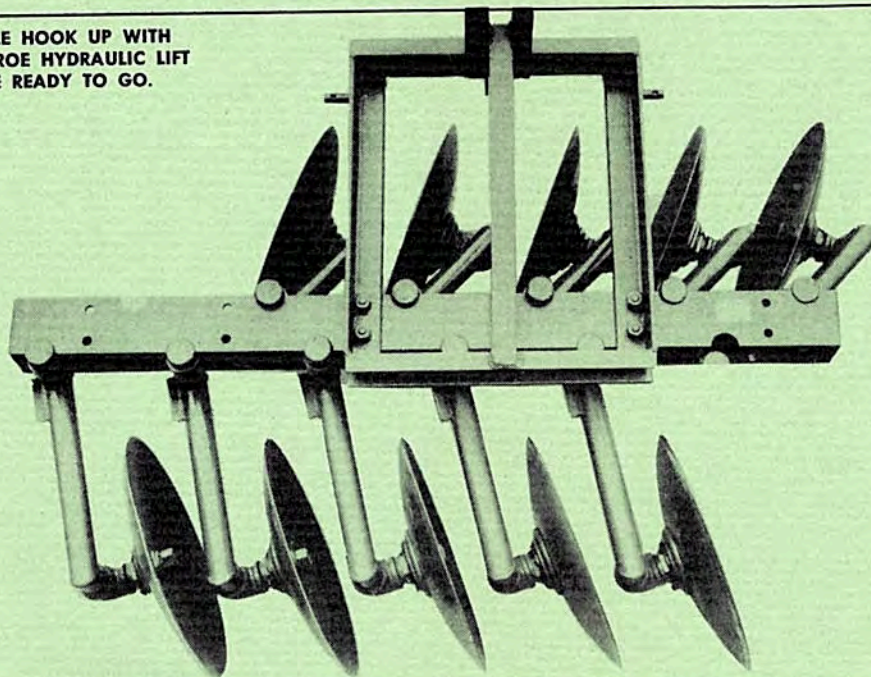
LOVE TRACTOR, INCORPORATED Eau Claire, Mich.

McMAHON

Lift Type **DISC HARROW**

**PROVIDES A DISC PLOW ACTION WITH A DISC HARROW RESULT.
MAXIMUM PENETRATION WITH 22" X 8 GA. DISC BLADES—
HAS BEEN MARKETED & PROVEN WITH WILLYS UNIVERSAL JEEPS.
— IMMEDIATE DELIVERY FROM STOCK, NO DELAY.**

**SIMPLE HOOK UP WITH
MONROE HYDRAULIC LIFT
MADE READY TO GO.**



VIEW LOOKING DOWN ON TOP OF McMAHON LIFT TYPE DISC HARROW

- Eliminates Plow Sole
- Automatically Levels Out Land
- Easy to Raise and to Back into Corners
- Easy to Convey on Highways
- Penetration by Finger-Tip Control
- Can be Offset
- Can be Hooked Up to Lift in One Minute
- Made in 4-Foot and 5-Foot Sizes for Jeeps
- Disc Blades Are Adjustable
- Built to Do the Job

ORDERS TO BE SENT TO

McMAHON MANUFACTURING CO., INC.

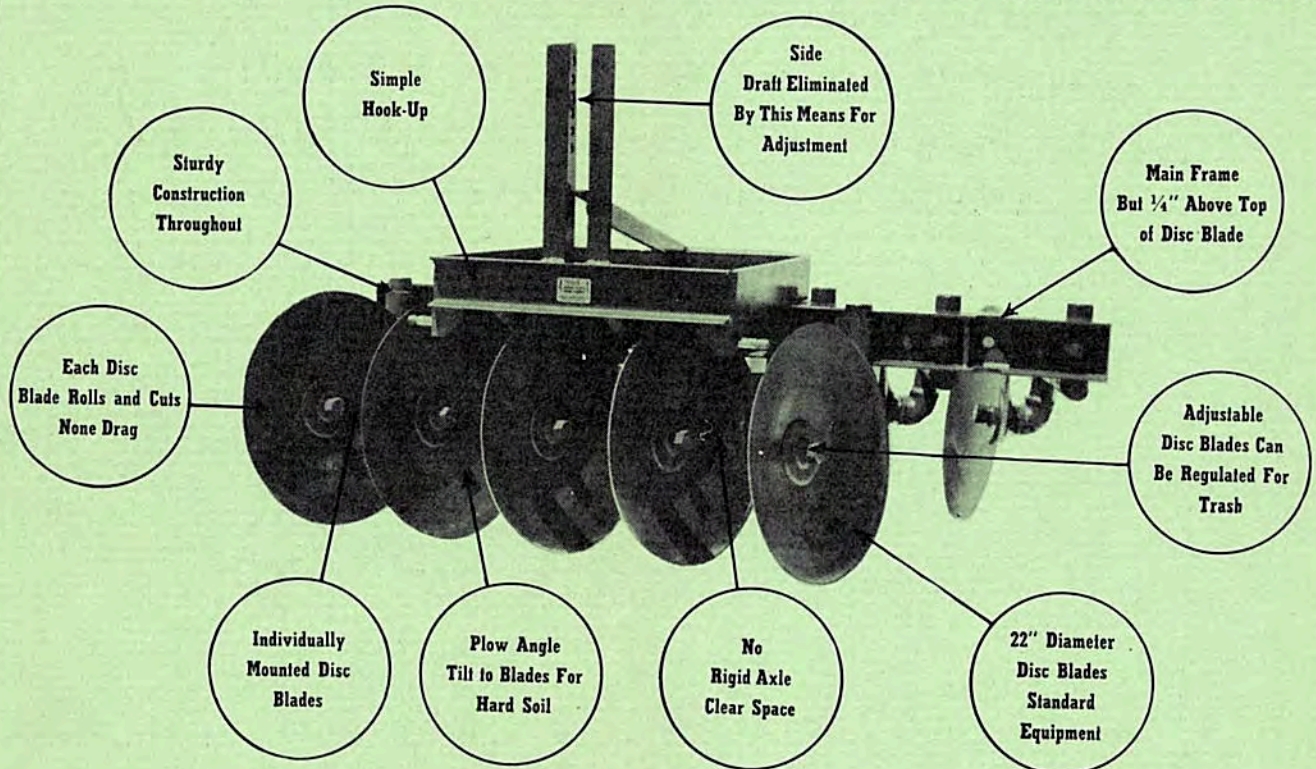
MAIN OFFICE AND WORKS: RIVERSIDE, CALIF., U.S.A.

P. O. Box 803

McMAHON

Lift Type **DISC HARROW**

FOR WILLYS UNIVERSAL JEEP WITH MONROE HYDRAULIC LIFT



- Sturdy Construction Throughout
- Simple Hook-Up
- Side Draft Eliminated By This Means For Adjustment
- Main Frame But 1/4" Above Top of Disc Blade
- Adjustable Disc Blades Can Be Regulated For Trash
- Each Disc Blade Rolls and Cuts None Drag
- Individually Mounted Disc Blades
- Plow Angle Tilt to Blades For Hard Soil
- No Rigid Axle Clear Space
- 22" Diameter Disc Blades Standard Equipment

Closest-Up Hitch of Any Lift Type Disc Made

Least Load On Tractor

Construction--

The construction of the McMahon Disc employs the successful application of well known and approved engineering principles. Each disc blade, instead of being mounted on a rigid axle with other blades, is individually attached to a central bar with a heavy tubular bracket fitted with dust-proof bearing. Each disc blade ROLLS and CUTS independent of the others. NONE DRAG. This FREE ACTION, FREE CUTTING, FREE ROLLING greatly reduces the power needed; it reduces the weight ordinarily required and permits POSITIVE CONTROL with hydraulic lift and hookup. The close-up hitch, hydraulic lift and hookup affords even, controlled penetration at any depth with least power.

Can Make Right or Left Hand Turn in Soil

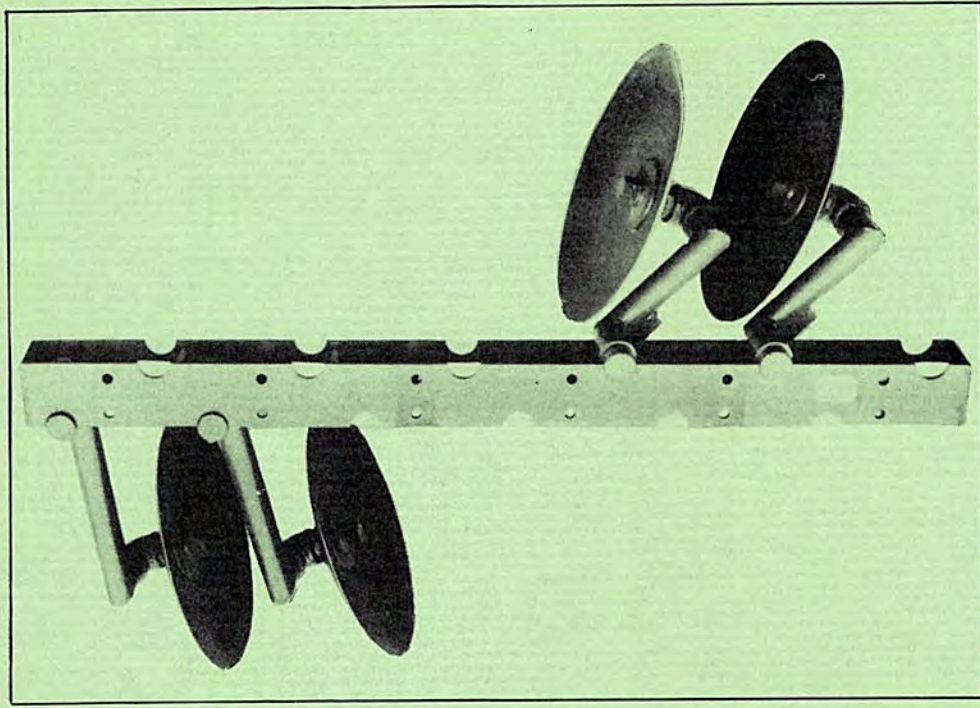
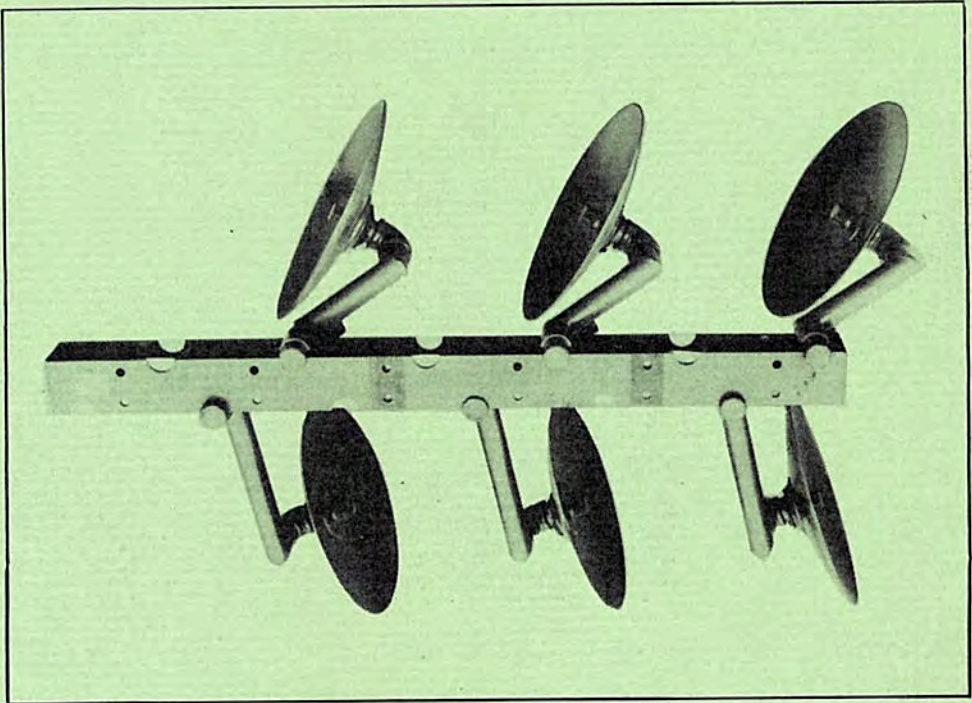
You Can Weave In and Out With It

For Hard Soil and Heavy Duty Work

McMAHON

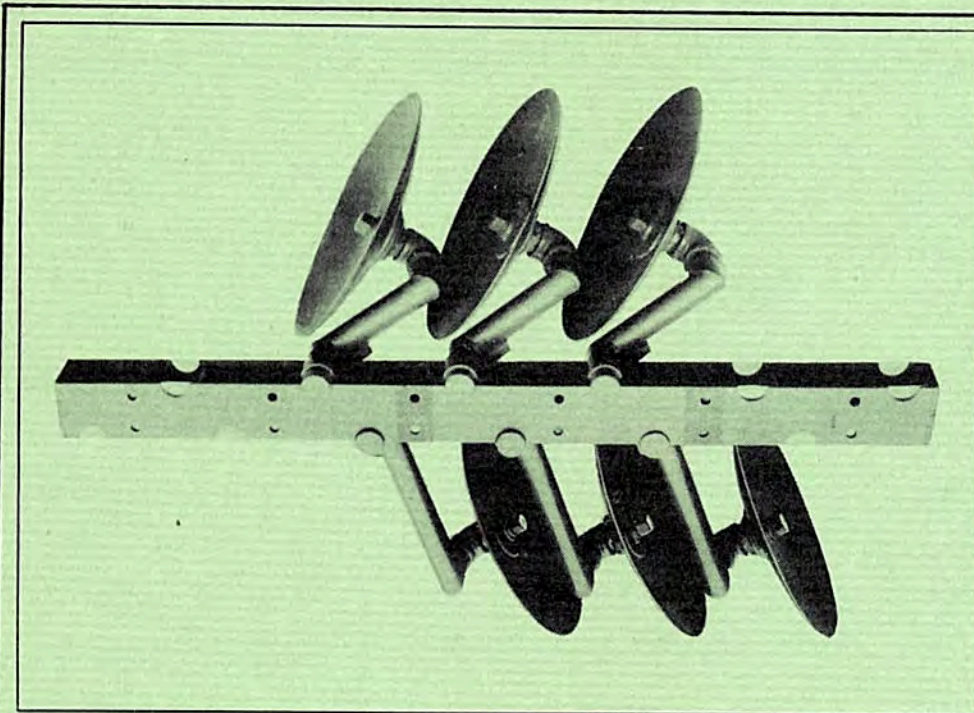
Lift Type **DISC HARROW**

Picture shows the conversion of the McMahon Disc Harrow into the Disc Furrower or Middle-buster. The McMahon Disc is widely used in wheat stubble cultivation because each McMahon Disc blade is free to roll and cut, none drag. This new feature is due to the individual mounting of each McMahon blade.



Picture shows the disc blade arrangement of a McMahon Disc Harrow converted into a Disc Ridger or Border-Maker. The height of the ridge or border is regulated by what angles you adjust the blades to.

WILLYS-OVERLAND EQUIPMENT BOOK



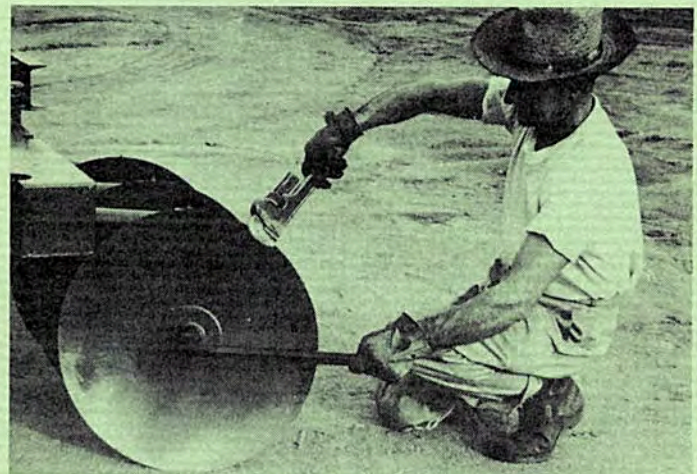
Picture showing arrangement of disc blades for a Lift-type Disc Ditcher. This simple conversion from the disc harrow is quickly made by simply removing a few disc blade units from the original disc harrow blade setup. In making any of these conversions you do not have to remove the hitch. The hitch is removed in these pictures merely for a clearer photo of the conversion shown.

**Four Disc Implements
at a Price of One Disc Harrow**

**4 TOOLS IN 1
HARROW-DITCHER
RIDGER-FURROWER**

U.S. Pat. No. 2335156 Nov. 23-43 Other Pats. Pend. & Issued
Canadian Pat. No. 436813 Sept. 10, 1946

Picture at right shows the suggested method of tightening a disc blade onto its stub shaft, or removing a disc blade. Simply hold the outer edge of a disc blade by a stilson wrench as shown and turn the nut by the wrench provided. The front gang disc blade shafts have left hand threads and the rear gang disc blade shafts have right hand threads. These right and left hand threads serve to keep the disc blades secure on their shafts at all times.



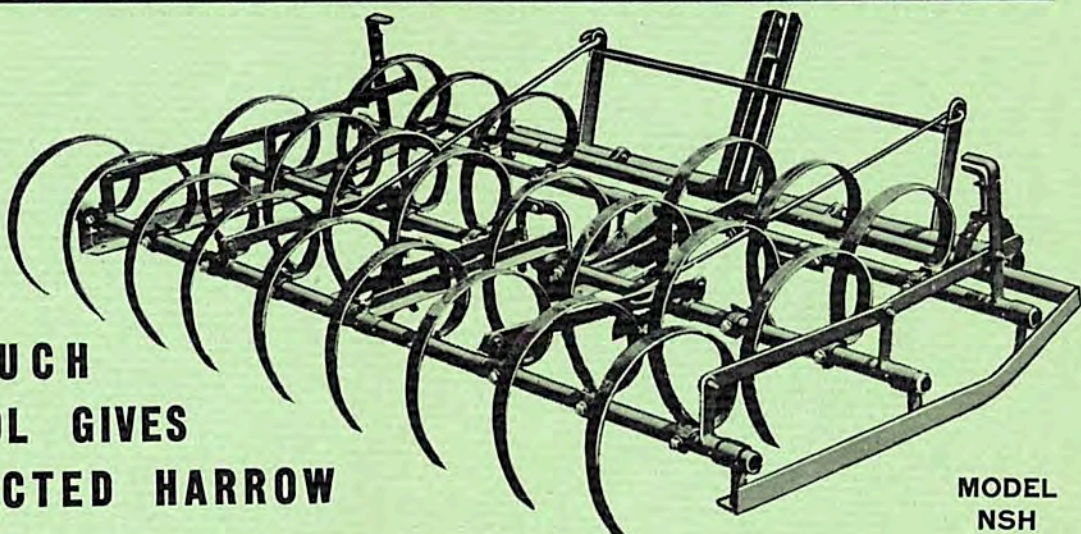
ORDERS TO BE SENT TO

McMAHON MANUFACTURING CO., INC.

MAIN OFFICE AND WORKS: RIVERSIDE, CALIF., U.S.A.

P. O. Box 803

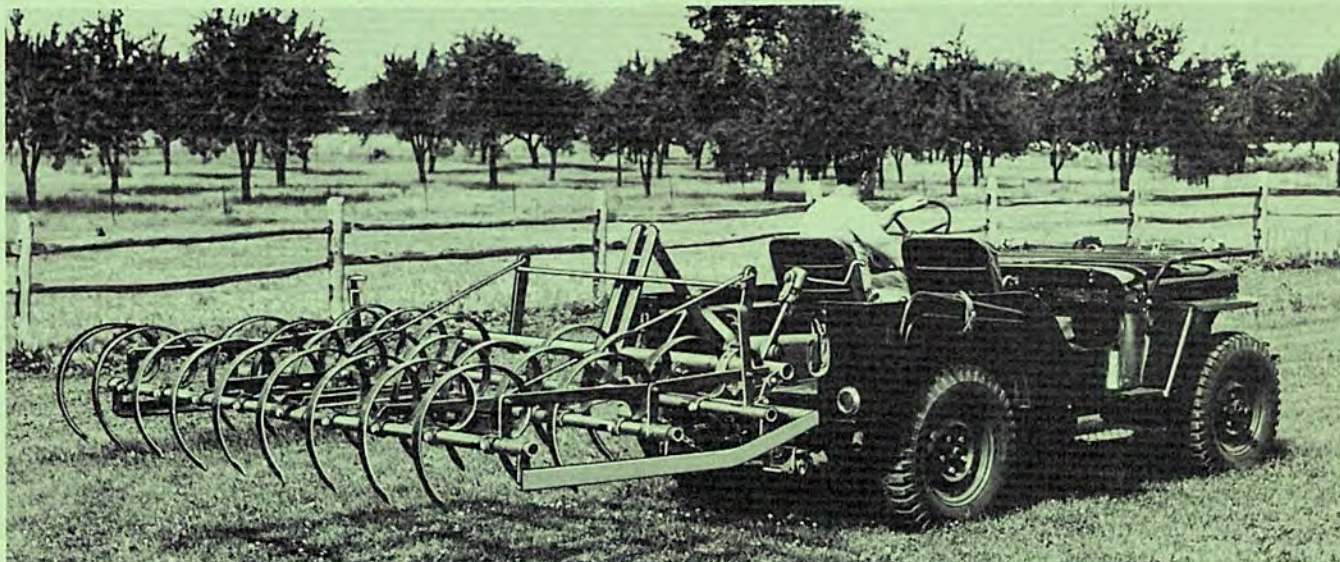
NEWGREN SPRING-TOOTH HARROW



FINGER-TOUCH
LIFT CONTROL GIVES
THIS PERFECTED HARROW

MODEL
NSH

WIDER USEFULNESS THAN EVER



Farm Implements Especially "Tailored"
for Use with the Jeep Equipped with
the Monroe Hydraulic Lift

Newgren implements also may be used with tractors
equipped with three-point hitch hydraulic systems

8 1/2 FEET WIDE WITH 23 TEETH

Compare this two-section harrow, with its 23 flexible and removable teeth and its five-position rack adjustment, with any other harrow on the market. You'll be impressed with its superior features of construction and performance. Then, add to these features the finger-touch operation of the Monroe Hydraulic Lift, and the agility and 4-wheel-drive traction of the Jeep. Here is a combination that is made ready for the field faster, that gets to the field faster, that gives you, in the field, greater speed and efficiency in the countless jobs which a spring-tooth harrow will perform better than any other implement.

THE NEWGREN COMPANY • BUTLER, PA.

MORE FARM TASKS-*Faster*



A FEW USES

- Destroying weeds including crab grass, quack grass and other grasses.
- Can be operated as smoothing harrow, leveling out rough fields and working lumps to top of ground for smashing with any land pulverizer.
- Preparing seed beds and general utility in all soil conditions.
- Often used for first cultivation of listed corn.
- Gives deep penetration. With the Monroe lift, harrow can be raised quickly so that roots, sods or trashy substances that tend to clog the tool will fall from or can be pulled from teeth quickly. Harrow then may be dropped back into ground and tillage will proceed without delay.
- Tilt adjustment of Monroe lift gives flexible operation on hillsides and in contoured terrain.



FEATURES AND SPECIFICATIONS

Three-point hitch or unhitch in one minute to arms of Monroe Hydraulic Lift. High carbon steel frame and spring steel teeth. Two rack adjustments raise or lower teeth in five positions. Teeth easily removable and replaceable. Shipping weight, 360 pounds.

THE COMPLETE NEWGREN LINE

Single and double-bottom moldboard plows with bases to fit soil conditions. Single and double disc plows. Lift-type and pull-type disc harrows. Field cultivators. Mowers. Other tillage tools especially tailored for use with the Jeep and Monroe Lift. Also, a full line of road building and maintenance and general utility farm tools. Sold exclusively by Willys-Overland distributors and dealers. Ask for literature on the implements you need.

The Newgren Company reserves the right to change specifications and design without incurring obligation.

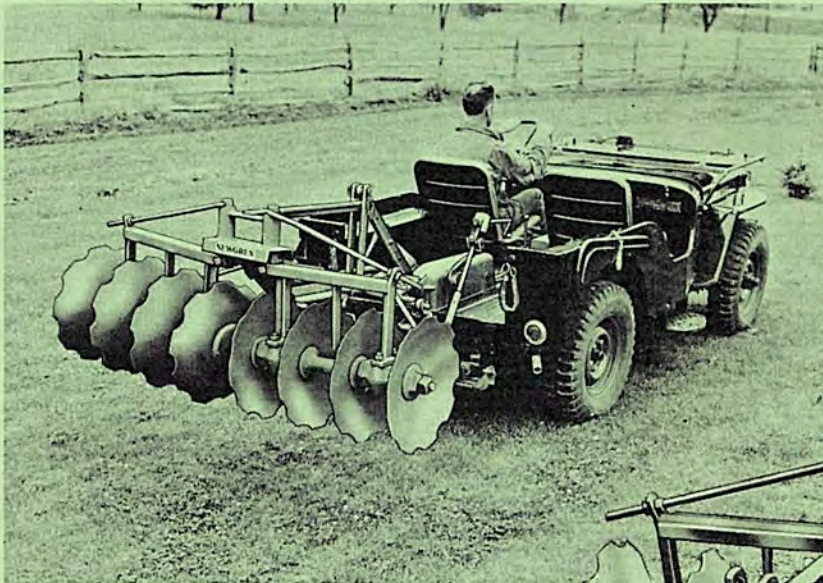
THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

NEWGREN BUSH AND BOG HARROW

**AN OUTSTANDING LAND-BREAKING TOOL WITH
NEW AND FAR WIDER UTILITY
- - AND MONROE HYDRAULIC LIFT CONTROL**



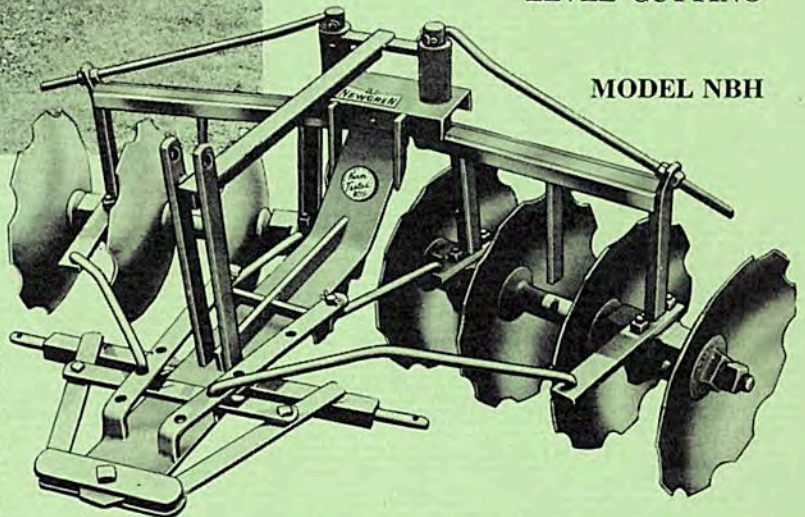
**FULLY ADJUSTABLE FOR
ANGLE AND FOR
LEVEL CUTTING**

MODEL NBH

**CUTAWAY BLADES GIVE
REMARKABLE RESULTS**

The bush and bog harrow, with its sharp, rugged, cutaway blades, long has been recognized as an outstanding land-breaking implement. In the Newgren application, linking this tool with the Jeep and Monroe Hydraulic Lift, a far wider range of usefulness is attained, because the harrow is given the advantage of approximately 1,000 pounds of working weight—the result of the adjustable down pressure of the Monroe Lift, added to weight of the implement itself. This gives exceptional ability to shear off and cut through rough lands and heavy growths and operate where plows and harrows of the usual type are not workable.

The Newgren bush and bog harrow weighs 525 pounds and may be maneuvered easily to and from the field and in corners with the Monroe Lift which raises and lowers the implement hydraulically. Then the down pressure of the Lift adds the equivalent of up to 500 pounds more for field operations, and the design of the harrow provides free movement and absence of crowding around corners. Ample traction and draw bar pull are provided by the 4-wheel-drive Jeep to give results, in many types of farming operations, that cannot be matched by any other implement or combination of implement and motive power.



Farm Implements Especially "Tailored" for Use with the Jeep Equipped with the Monroe Hydraulic Lift

Newgren implements also may be used with tractors equipped with three-point hitch hydraulic systems

THE NEWGREN COMPANY • BUTLER, PA.

“WHERE PLOWS AND OTHER LAND BREAKERS FALL FAR SHORT OF THE FARMING JOB . . .”

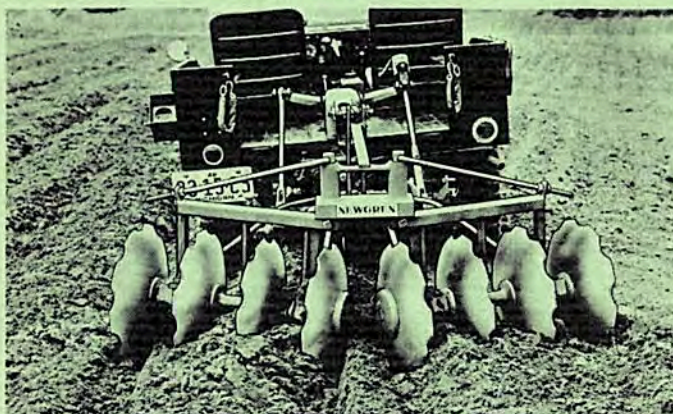
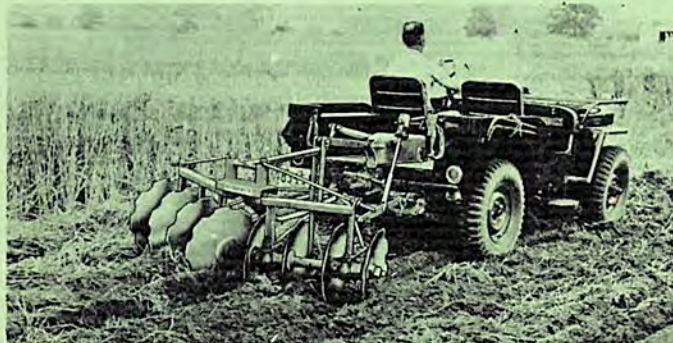
HERE'S WHAT THE BUSH AND BOG HARROW WILL DO

- Perform as a prime breaker in stony land, new growth, idle land full of roots, and new land from which timber has been cut.
- Turn over heavy cover crops, often doing a faster, cheaper job than a plow in preparing seed beds.
- Operate through rough weeds, small brush and other lands as implied by the name, “bush and bog harrow.”
- Construct shallow V-shaped drainage ditches and clear and renovate terrace channels.
- Level old terraces and fill small gullies and field washes.
- Mulch stubble land and cut through rough land preparatory to seeding pasture grasses.
- With the Jeep and Monroe Lift, can be operated in close corners and other spots not ordinarily accessible.

Often, the bush and bog harrow develops the entire seed bed by working over land two to four times. In some soils, it is advisable to follow with a smoothing harrow.

NEWGREN BUSH AND BOG HARROW—Heavy duty welded steel frame. Crucible steel blades, 20 inches in diameter, 9-gauge with 2-inch concavity, 9 in. apart. Specially treated grey iron bearing spools and boxes. High pressure grease fittings on all bearings. Overall dimensions—height, 34 in.; length, 53 in.; width, 70 in. Cutting width at 25 degree angle, 63 inches. Maximum cutting angle of discs, 25 degrees. Minimum cutting angle of discs, 10 degrees. Working depth, up to 8 inches. Ground clearance in raised position, 15 inches. Shipping weight 525 lbs.

Along with single and double-bottom moldboard plows, disc plows, disc and spring tooth harrows, field cultivators and similar tools, the bush and bog harrow gives Newgren one of the few really complete lines of tillage tools. Ask for information on other tillage implements you need—as well as post hole diggers, scoops, terracers, saws and road maintenance equipment. Sold exclusively by Willys-Overland distributors and dealers.



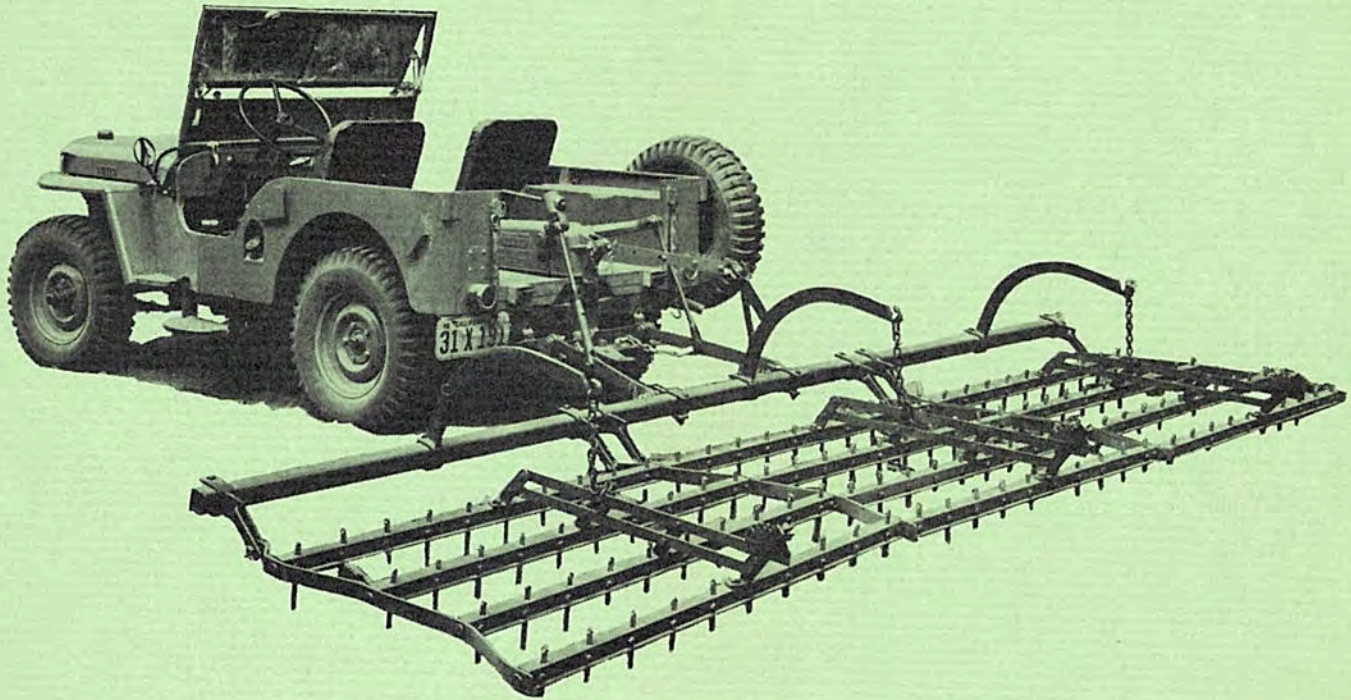
Views of the Newgren lift-type Bush and Bog Harrow in action, reworking hard, packed ground, and summer fallowing.

The Newgren Company reserves the right to change specifications and design without incurring obligation.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

VENTURA *Spiketooth Harrow.*



The fine tooth spacing of the VENTURA Spiketooth Harrow performs these three important functions: 1—It finely pulverizes the soil. 2—It results in smoother seed beds. 3—It discourages weed growth.

Although VENTURA Spiketooth Harrows are built exceptionally strong, they are flexible enough to easily conform to most of the irregular ground contours to be worked. Made in closed end style only. Have staggered bars and four bars to each section.

FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

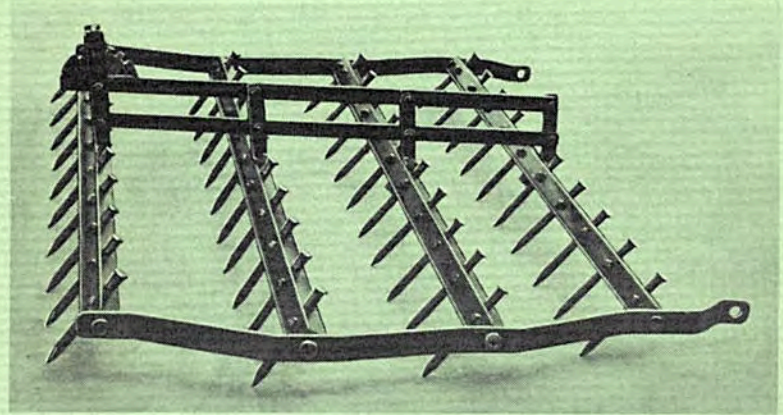
Manufactured by:

VENTURA MANUFACTURING  **and IMPLEMENT COMPANY**

1056 EAST FRONT ST., VENTURA, CALIF.

For Orders Outside Territorial U. S. A. Send Inquiries to WILLYS-OVERLAND EXPORT Corp., Toledo 1, Ohio.

VENTURA SPIKETOOTH HARROW



Steel Spiketooth Harrow Made Completely of Steel. No Castings are Used.

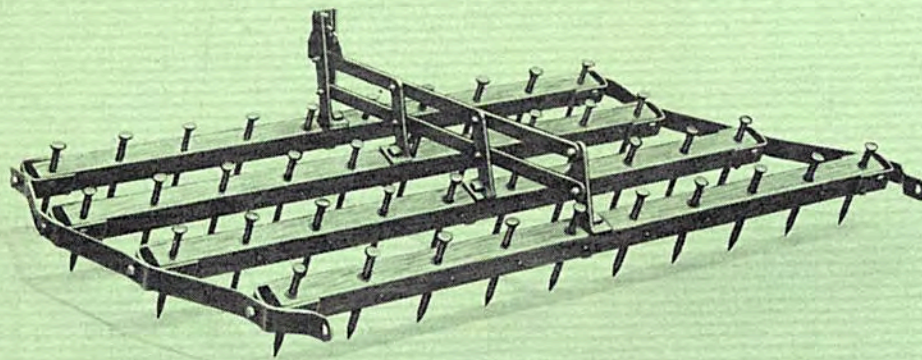
FOUR SIZES: 3 Ft.—24 Teeth; 4 Ft.—32 Teeth. 5 Ft.—40 Teeth; 6 Ft.—48 Teeth. Maximum Load for Jeep—12 Ft.

TOOTH SIZE: 1/2" x 8" made of high grade steel, selected to best resist shock and abrasion. Teeth are square type and positioned with sharp cutting edge in leading position. "Locked in" by use of unique type bar construction—they stay tight.

HARROW PATTERN—Teeth cut ground at intervals of 1 1/2".

ADJUSTMENTS—Harrow may be adjusted to four positions: 1—Teeth may be laid entirely flat. 2—With teeth in an approximate 30 degree angle for smoothing operations. 3—60 degrees, and 4—90 degrees for harrowing.

NEW CONTROL FEATURE—No long protruding levers, springs or ratchet wheels to become broken or damaged. Tooth angle locating and adjusting ratchet is conveniently located and may be easily operated.



WOOD BAR TYPE

Built in 3'—4'—5' Section Widths.

Made from No. 1 Air Dried, Straight Grain, Selected Oak.

FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

Manufactured by:

VENTURA MANUFACTURING and IMPLEMENT COMPANY

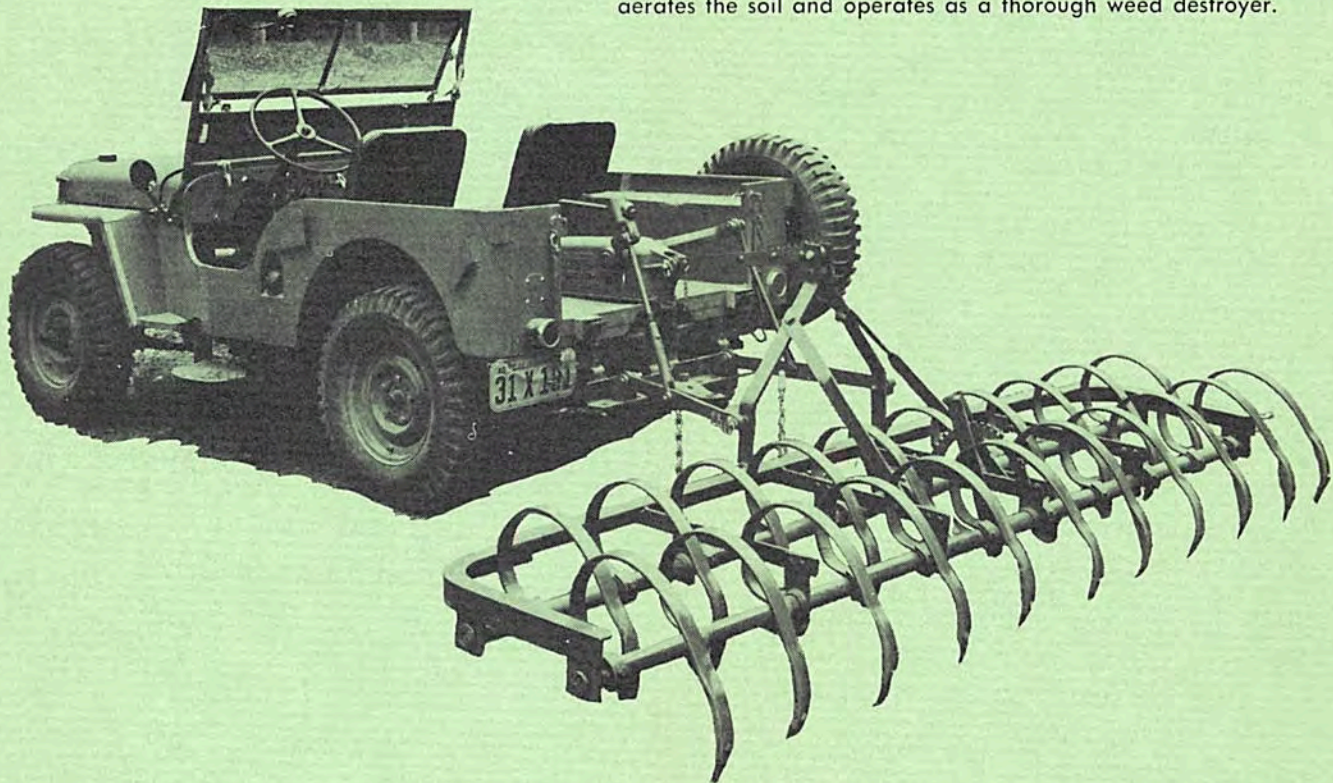


1056 EAST FRONT ST., VENTURA, CALIF.

VENTURA *Springtooth Harrow..*

The Ventura Springtooth Harrow is available in a complete range of sizes and can be furnished either as an attachment for the jeep (see illustration below), or as trailing type harrow with hand or power lift (see opposite page).

It is an excellent soil pulverizer, and while doing this job, it also aerates the soil and operates as a thorough weed destroyer.



SPECIAL FEATURES

RUGGED CONSTRUCTION fabricated of forged and electric welded steel frames.

ALLOYED SPRING STEEL HARROW SHANKS $\frac{3}{8}$ " x $1\frac{3}{4}$ " alloyed spring steel harrow shanks with single hole are standard equipment. Reversible single-hole, spring steel, heat-treated points are used on every shank.

HARROW BARS best grade, high carbon and manganese 2" heavy, wall tubing used for harrow bars.

UNIFORM PENETRATION All teeth penetrate soil uniformly, and *they stay there*. Teeth may be set at ground surface or in 1-inch adjustments to 6 inches below surface.

SIZES Sizes range 5', 6', 7' and 8'.

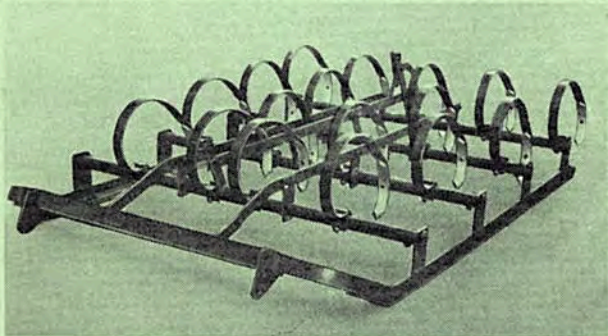
FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

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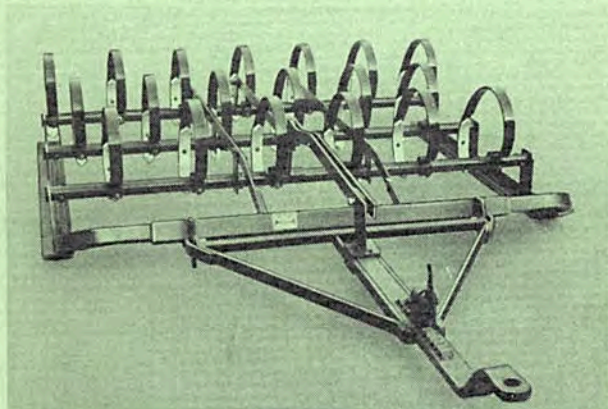
VENTURA MANUFACTURING  **and IMPLEMENT COMPANY**

1056 EAST FRONT ST., VENTURA, CALIF.

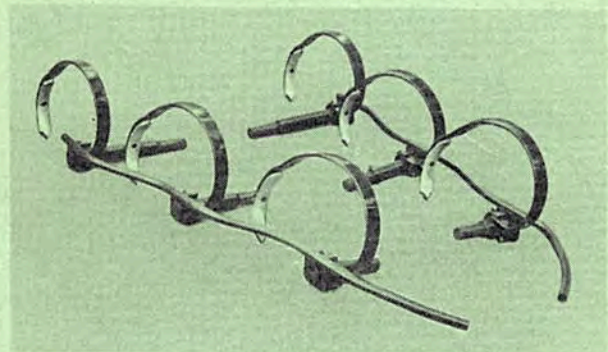
WILLYS-OVERLAND EQUIPMENT BOOK



A four-bar 5-foot hand lift VENTURA SPRINGTOOTH HARROW.



A three-bar, 6-foot power lift harrow, without extension.

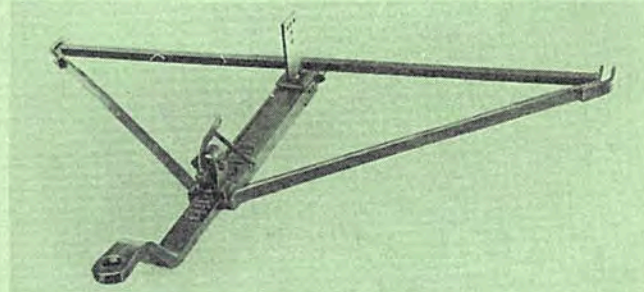


One set of harrow extensions. These may be installed on either three-bar or four-bar hand lift or power lift harrows, for greater coverage. These extensions provide 12 inches additional width on each side of all V. M. & I. harrows.

VENTURA Springtooth Harrows with the split runner shoe*

*An exclusive Ventura feature. Enables the operator to purchase from his dealer the front section of any shoe, which invariably wears out first, and install it himself. The expense of having a new shoe made is avoided. The same method of replacement applies to the rear section of the runner shoes.

These harrows can be furnished in either hand lift or power lift types. Sturdy, yet simple, construction makes these harrows particularly efficient in rocky or trashy ground.



POWER LIFT HITCH

Operation of Power Lift Hitch: The hitch operates to lift the teeth out of the soil. The jeep driver trips the ratchet dog from the seat by pulling the rope connected to the ratchet lever and moving his jeep forward. This raises the ends of the teeth to the height of the tube bars, dumping all debris that may have accumulated in the teeth and at the same time providing clearance ample to pass over any debris on the ground.

To set the teeth into the soil once more, the operator simply backs the jeep, thus re-setting the teeth. The trip dog in the ratchet is always in positive action whether the teeth are in the ground or in a raised position.

An offset hitch draw bar keeps the power lift level with the harrow.

FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

Manufactured by:

VENTURA MANUFACTURING  and IMPLEMENT COMPANY

1056 EAST FRONT ST., VENTURA, CALIF.

Aeroquip

Flexible Hose Lines — Detachable Fittings For Use With Willys "Jeep" Hydraulic-Control Lift

The introduction of the new Willys-Overland Hydraulic Control Lift of the Universal "Jeep" makes possible the use of a wide variety of hydraulic implements and attachments by a centralized control unit. By using this hydraulic control unit, snow plows, jacks, loaders, dozer blades, etc. can be operated. To adapt these accessories for use with the hydraulic control unit, many different lengths of flexible hose lines will be required.

To encourage the use of this new equipment, "Jeep" dealers must have available the flexible hose lines each installation will require. By stocking a small supply of bulk Aeroquip Hose and Detachable Fittings, the dealer can make up any hose line required.

The hose and fittings illustrated on this page were specifically designed for use with the Willys "Jeep" Hydraulic-Control Unit. Aeroquip Hose Lines offer the "Jeep" dealer many special advantages not found in factory assembled, swaged type lines.

Easy to Assemble: Hose Lines may be assembled in your own shop by any unskilled mechanic. (See instructions on reverse side.) No adjustment or tightening required after once assembled.

Greater Economy: Small inventory of bulk Aeroquip Hose and Fittings will meet all requirements.

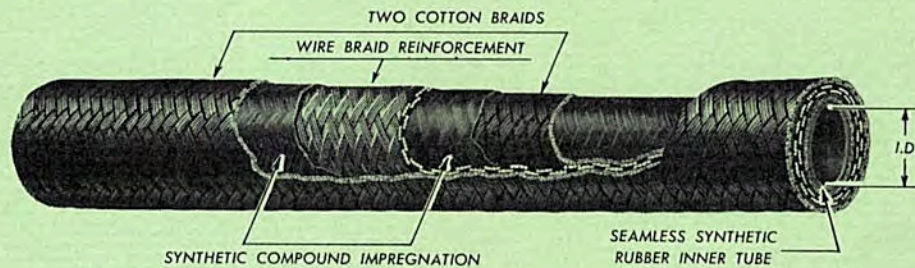
Reduced Operating Costs: Eliminate necessity of stocking large quantities of factory assembled hose lines.

Wide Operating Range: Suitable for all types of adverse weather conditions. For use with hydraulic fluids, air, gasoline, lubricating oils, etc.

Detachable, Re-usable Fittings: Fittings may be salvaged and re-used many times. A damaged part does not mean replacement of the complete hose line.

Aeroquip means better performance, maintenance and service.

SINGLE WIRE BRAID HOSE — TYPE 1503



Size	Hose I. D.	Burst Pressure (Min.)	Recommended Working Pressure	Min. Bend Radius
1503-6-*	5/16"	9,000	3,000	4 1/4"
1503-8-*	13/32"	9,000	1,500	5"

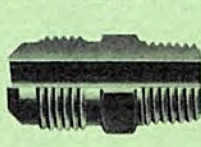
* Specify In Feet.

FITTING NO. 401
S.A.E. Thread



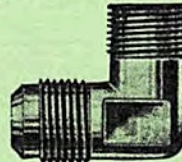
Size	S.A.E. Thread
401-6	5/8-18
401-8	3/4-16

ADAPTER NO. 2000
S.A.E. to Pipe Thread



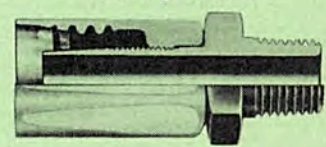
Size	Pipe Thread	S.A.E. Thread
2000-4-6	1/4"	5/8-18
2000-6-8	3/8"	3/4-16

ELBOW NO. 2003
S.A.E. to Pipe Thread



Size	Pipe Thread	S.A.E. Thread
2003-4-6	1/4"	5/8-18
2003-6-8	3/8"	3/4-16

FITTING NO. 412
Male Pipe Thread



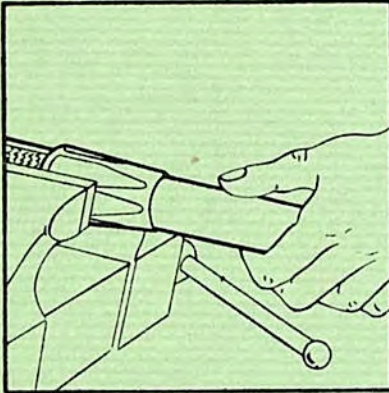
Size	Pipe Thread
412-6	1/4"
412-8	3/8"

OTHER SIZES ARE AVAILABLE RANGING FROM 1/8" TO 3/4".

WILLYS-OVERLAND EQUIPMENT BOOK

ASSEMBLY INSTRUCTIONS FOR AEROQUIP HOSE LINES

Using 1503 Type Hose and 401 or 412 Fittings

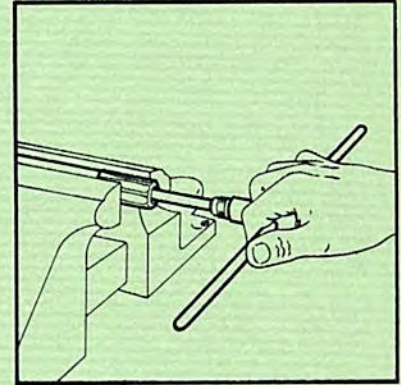


STEP 2

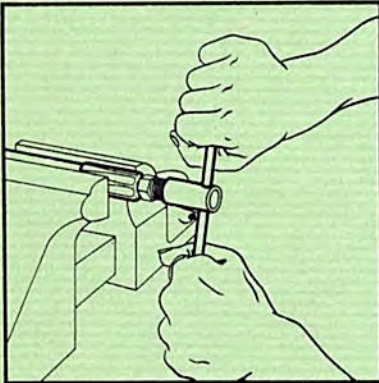
Step 1—Cut hose square to length required using hacksaw (fine tooth blade), or abrasive cut off wheel.

Step 2—Place socket directly in vise. Screw hose into socket counter clockwise until hose bottoms. Back off $\frac{1}{4}$ turn.

Step 3—Oil assembly tool mandrel, insert in hose with flaring motion. Repeat until mandrel moves in and out freely.



STEP 3

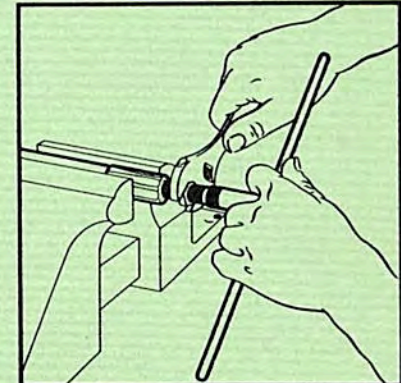


STEP 4

Step 4—Swivel Ends (401 Fitting). Wipe oil from assembly tool, tighten nipple and nut on assembly tool, oil nipple threads and screw into socket. Leave $\frac{1}{32}$ - $\frac{1}{16}$ clearance between nut and socket so nut will swivel. Loosen nut and remove tool.

Step 5—Male Ends (412 Fitting). Push nipple on assembly tool, oil nipple threads, screw into socket using wrench on hex. Remove tool.

Disassemble in Reverse Order



STEP 5

For assembly of 1503-6 hose with 401-6 or 412-6 Fittings use assembly tool 1582-4-6.

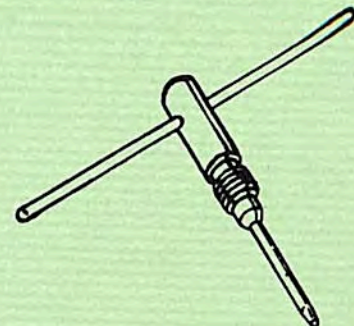
For assembly of 1503-8 hose with 401-8 or 412-8 Fittings use assembly tool 1582-4-8.

For complete detail and price information on all Aeroquip Products contact the nearest Aeroquip sales office or write direct to the factory.

Sales Offices:

303 Wareham Bldg., Hagerstown, Md.
1419 2nd Ave., So., Minneapolis 4, Minn.
2912 N. E. 28th St., Fort Worth, Texas
1053 N. Hollywood Way, Burbank, Calif.
72-74 Stafford St., Toronto, Canada

ASSEMBLY TOOL NO. 1582-4



Manufacturers

AEROQUIP CORPORATION

Jackson, Michigan

AEROQUIP PRODUCTS ARE FULLY PROTECTED BY PATENTS IN U.S.A. AND ABROAD.

NEWGREN LIFT STABILIZER KIT

TWO STAY BARS AND FITTINGS

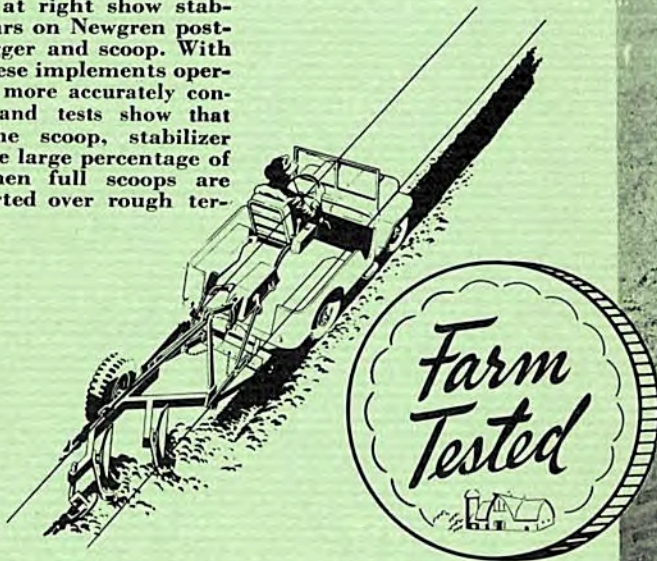
FOR RIGID CONTROL of



Farm Implements Especially "Tailored" for Use with the Jeep Equipped with the Monroe Hydraulic Lift

Newgren implements also may be used with tractors equipped with three-point hitch hydraulic systems

Sketch shows how stabilizer bars (in red) keep Newgren disc plow in alignment for straight, clean furrows. Photos at right show stabilizer bars on Newgren post-hole digger and scoop. With both these implements operation is more accurately controlled and tests show that with the scoop, stabilizer bars save large percentage of load when full scoops are transported over rough terrain.

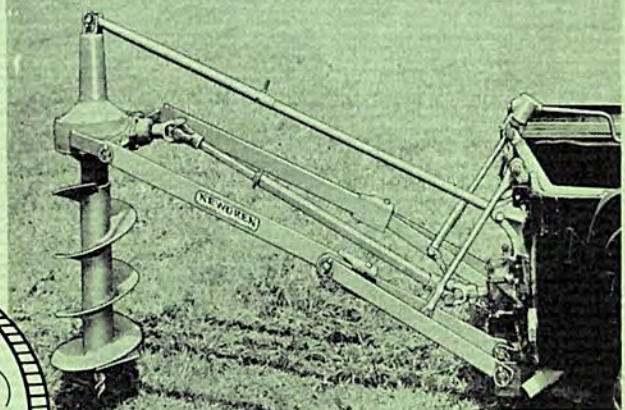


Newgren stabilizer kits consist of two steel arms and mounting brackets for installation as a complement to the Monroe Hydraulic Lift for the Universal Jeep. The brackets bolt to and extend under the Jeep draw bar. Arms are installed from bracket to mounting pins of implement through lift connections, forming stabilized braces on both sides of hydraulic linkage system. Brackets may be installed on Jeep draw bar in 10 minutes or less (no holes to drill). Mounting pins for stabilizer bars are quickly detachable and bars may be installed in one minute. Brackets have two holes for adjustment according to implement used.

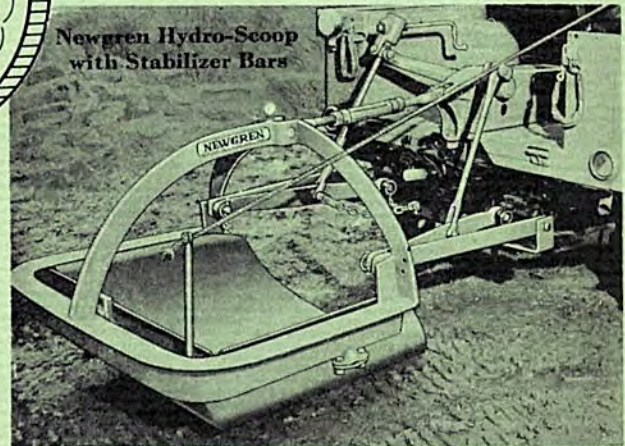
- Disc Plows*
- Forge Base Plows*
- Cultivators*
- Mowers*
- Scoops*
- Post-Hole Diggers*
- Terracing Blades*

—and other Newgren implements where elimination of linkage sway and rigidly aligned operation are desirable for maximum operating efficiency and results.

Newgren Post-Hole Digger with Stabilizer Bars



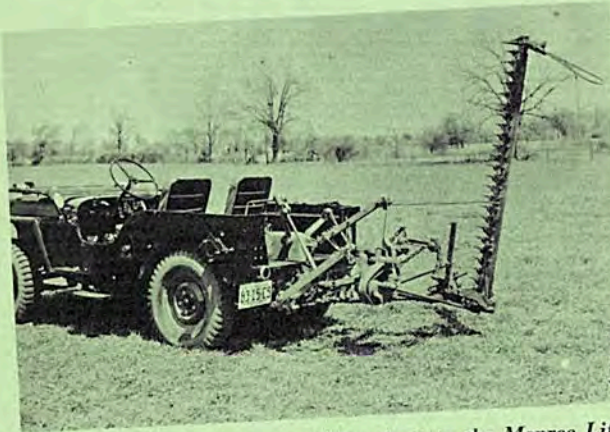
Newgren Hydro-Scoop with Stabilizer Bars



THE NEWGREN COMPANY • BUTLER, PA.

WILLYS-OVERLAND EQUIPMENT BOOK

NEWGREN STABILIZED IMPLEMENTS



This Newgren mower uses stabilizer bars on the Monroe Lift.



Newgren double-disc 26-in. plow showing stabilizer bars.



Newgren field cultivator with Monroe Lift stabilizer bars in certain soil conditions.



Double-disc plow in the field with stabilizer bars.

Here are a few of the Newgren farm-tested implements which give improved performance when used with stabilizer bars on the Monroe hydraulic lift to control linkage sway. In other implements, linkage "give" is desirable so that the implement will follow the contour of the land. If in doubt about stabilizer bar recommendations, see instructions which accompany implements.

Newgren Stabilizer Kit (two arms and fastenings complete)—No. MS.

The Newgren Company reserves the right to change specifications and design without incurring obligation



Newgren Forgy base moldboard plow (no landslide) with stabilizers.

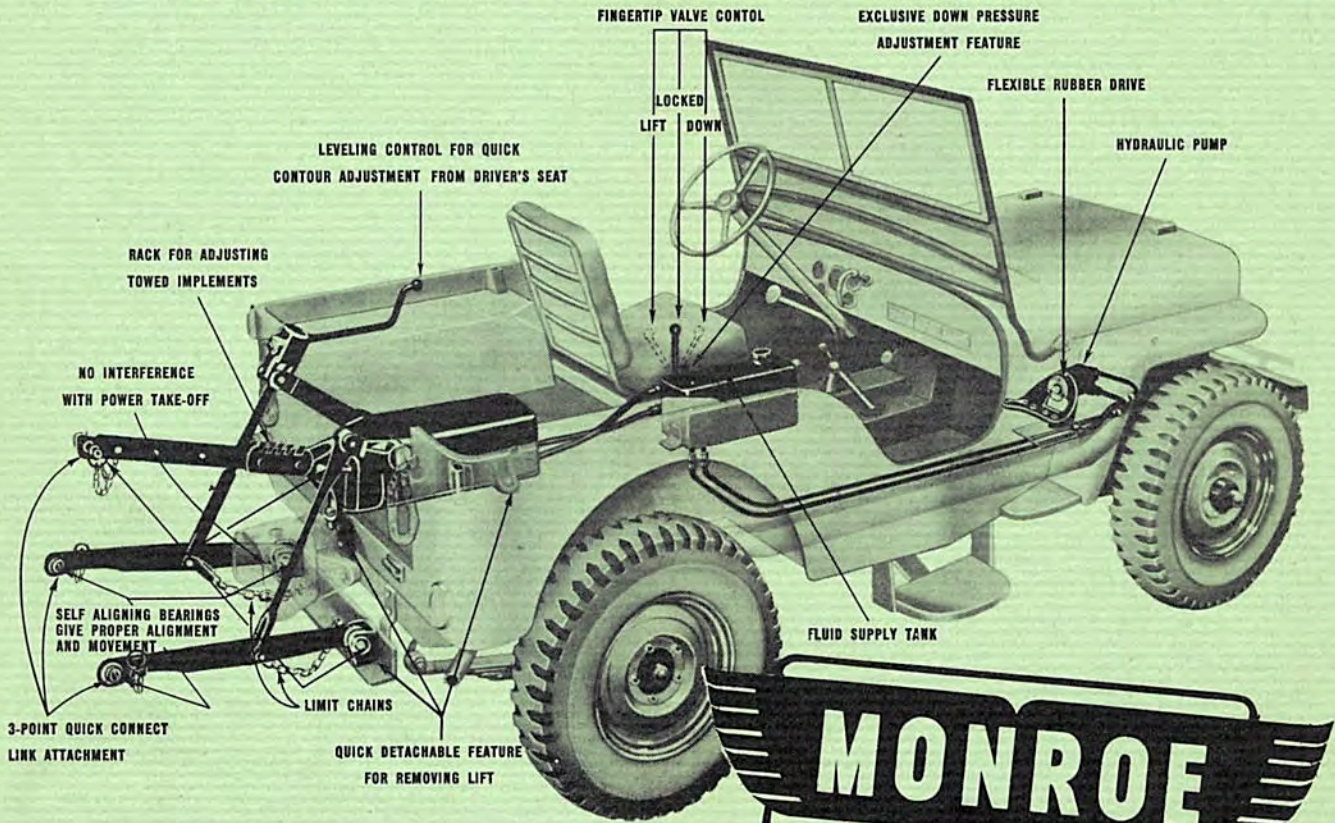
THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

MONROE HYDRAULIC LIFT KIT

Now... AT LESS THAN 1/5th THE COST OF A NEW TRACTOR 200,000 'Jeep' OWNERS CAN GIVE THEIR JEEPS 100% FARM UTILITY



HYDRAULIC LIFT KIT - MAKES THE JEEP AMERICA'S MOST USEFUL FARM VEHICLE

FOR INSTALLATION ON ALL POSTWAR JEEPS
The same equipment that is offered by Willys-Overland Motors, Inc., as optional, factory-installed equipment on new Jeeps. The Monroe Hydraulic Lift comes to you in convenient, compact form for all Model CJ-2A Universal Jeeps, complete with installation and service instructions.

THE NEWGREN COMPANY • BUTLER, PA.

ONE-MINUTE IMPLEMENT ATTACHMENT AND FINGERTIP CONTROLS



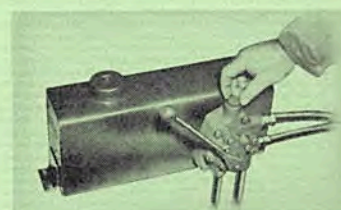
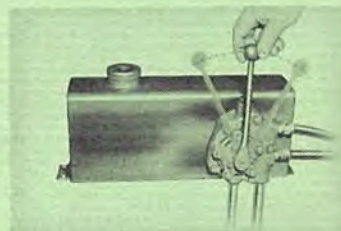
One minute is all that is required to attach or detach implements to the three lift arms which have ball sockets at each end. This three-point hitch gives the Jeep full usefulness as a farm tractor with Newgren implements and other equipment having similar attachment.

Phantom illustration on reverse side shows farm-tested installation of Monroe Lift on the Jeep—pump on the front of the engine . . . fluid tank and fingertouch controls between the seats . . . enclosed and sealed cylinder . . . three-point hitch, and leveling control at rear. Large capacity hydraulic lines permanently connect pump and tank and may be quickly detached between tank and cylinder.

Finger-touch pressure on the control handle at the side of the fluid tank will raise or lower implements attached to the lift arms. Implement is raised by moving the handle toward the rear and is lowered by moving the handle forward. In the vertical (neutral) position, the implement is locked at any desired height.

The Monroe Lift will give you down pressure of up to 500 pounds, simply by turning the control valve clockwise. This down pressure is adjustable — an exclusive Monroe feature. About three full turns of the valve will produce the maximum, and pressure is reduced by about 85 pounds with each half turn of the valve counterclockwise.

For hillside or contour operation, implements may be leveled or tilted by turning the handle connected to the left-hand lift arm and conveniently located at the rear of the driver's seat. When plowing, for example, implement is tilted to compensate for the right-hand Jeep wheels which run in the furrow.



A FEW OF THE OUTSTANDING ADVANTAGES

Hydraulic lift control of implements transfers weight to front wheels, improving Jeep 4-wheel-drive traction. Down pressure that is adjustable up to 500 pounds, adds the equivalent of that much more working weight to the implements. Counter weights unnecessary. Construction of lift arms with ball sockets give proper alignment, yet permit desirable following and trailing movement of implements for plowing and hillside and contour work. Lift housing

attached to Jeep body with only three cap screws. Links attached to drawbar with easily removable pins. Lift mechanism may be removed by one man in a few minutes. No interference with other accessories. Pump and tank and valve assembly, as separate unit, may be used for supplying hydraulic pressure to other equipment requiring such pressure.

HOW THE LIFT KIT COMES TO YOU

Three compact, specially constructed boxes containing (1) main housing and cylinder assembly and lift assembly with all fittings; (2) pump assembly and tank and valve assembly; (3) hydraulic fluid lines. Detailed

instructions, with pictures, drawings and "cutaways" accompany each kit, along with 24-page manual giving all information for care and operation. Monroe Hydraulic Lift kits are manufactured and guaranteed

by the Monroe Auto Equipment Company, Monroe, Mich., and sold by the Newgren Company, Butler, Pa., exclusively through Willys-Overland distributors and dealers.

THE NEWGREN COMPANY

Engineers and Distributors of Farm Implements for the Jeep

BUTLER • PENNSYLVANIA

*See also after #14 Scrapers
D. H. H. H.*

The
MAHL JEEP LOADER
MODEL JA

SNOW AND PRODUCE SCOOP

USED BY
CONTRACTORS
MUNICIPALITIES
FACTORIES
FILLING STATIONS
CEMETERIES
PARKING LOTS
PARK BOARDS
SMALL AIRPORTS



The Loader with the Hydraulic Over-Load Wheels

SPECIFICATIONS

- CAPACITY**—Recommended 1,100 pounds.
- BUCKET SIZES**—Dirt and sand bucket is 40 inches wide, 30 inches deep and 27 inches high.
Snow and Produce Scoop is 6 feet wide, 32 inches deep and 22 inches high.
- HEIGHT OF LIFT**—9 feet to pivot point. Can be increased by use of extensions.
- OVER-LOAD WHEELS**—General Tire Jumbo Jr. Tires, ball bearing wheels—greased for life.
- CONTROLS**—Special valve mounted between seats—gives fingertip control with no reaching.
- CONSTRUCTION**—Frame work and braces are all steel, electrically welded.
- SAFETY**—Special road locks prevent accidental lowering of the frame while traveling.
- INSTALLATION**—Can be installed by dealer. Frame may be dropped by removing 3 bolts, releasing Jeep for other work.
- WEIGHT**—Approximately 950 pounds complete.

Designed and Manufactured by

<p>SOLD EXCLUSIVELY THROUGH WILLYS DISTRIBUTORS AND DEALERS</p>	<p>MAHL EQUIPMENT CO. A DIVISION OF STANDARD IRON & WIRE WORKS, Inc. 2930 NORTH 2nd STREET MINNEAPOLIS 11, MINNESOTA "QUALITY PRODUCTS SINCE 1930"</p>	<p>WRITE FOR FURTHER INFORMATION AND LITERATURE</p>
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WILLYS-OVERLAND EQUIPMENT BOOK

THE HYDRAULIC BALANCE AND HOW IT WORKS

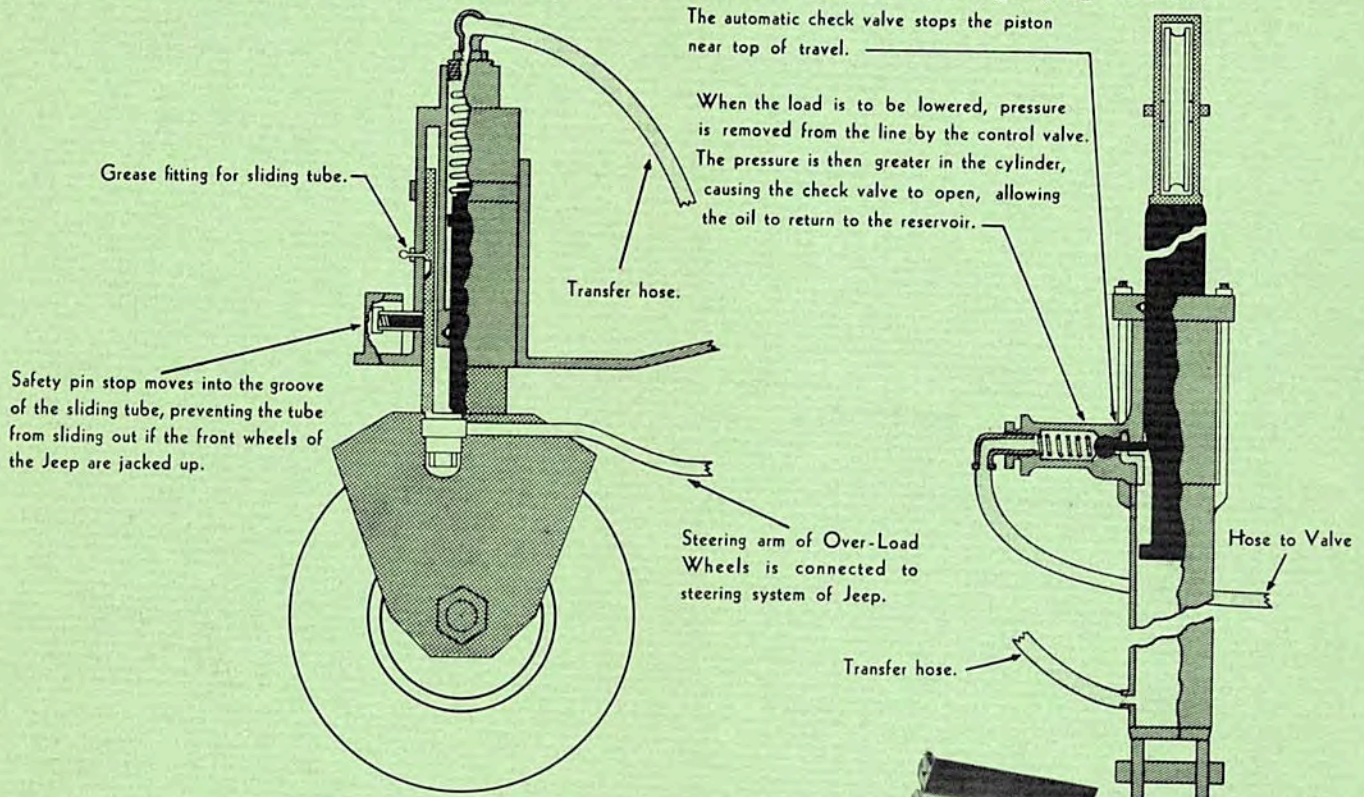
This Patented Hydraulic Balance is designed to take the excessive weight and strain from the front axle of the Jeep and transfer it to the Over-Load Wheels.

In lifting a load, oil is pumped under pressure into the lifting cylinder. This oil also moves through the transfer hose to the cylinder of the Over-Load Wheels so that any increase in oil pressure in the lifting cylinder, caused by a heavy load, also increases the oil pressure in the Over-Load Wheel Cylinder, thus transferring the weight to the Over-Load Wheels.

Over-Load sliding tube has a 4-inch up and down movement to take care of ground or road irregularities. When a dip in the ground or road is encountered, the Over-Load Wheels are forced down by the oil pressure in the Hydraulic Balance. This maintains a constant load on the Over-Load Wheels regardless of road irregularities.

When a bump in the road is encountered, the Over-Load Wheels are forced up, forcing the oil out of the Over-Load Wheel Cylinder into the lifting cylinder.

The movement of oil between the two cylinders causes the load to move slightly up or down.



DIRT AND SAND BUCKET

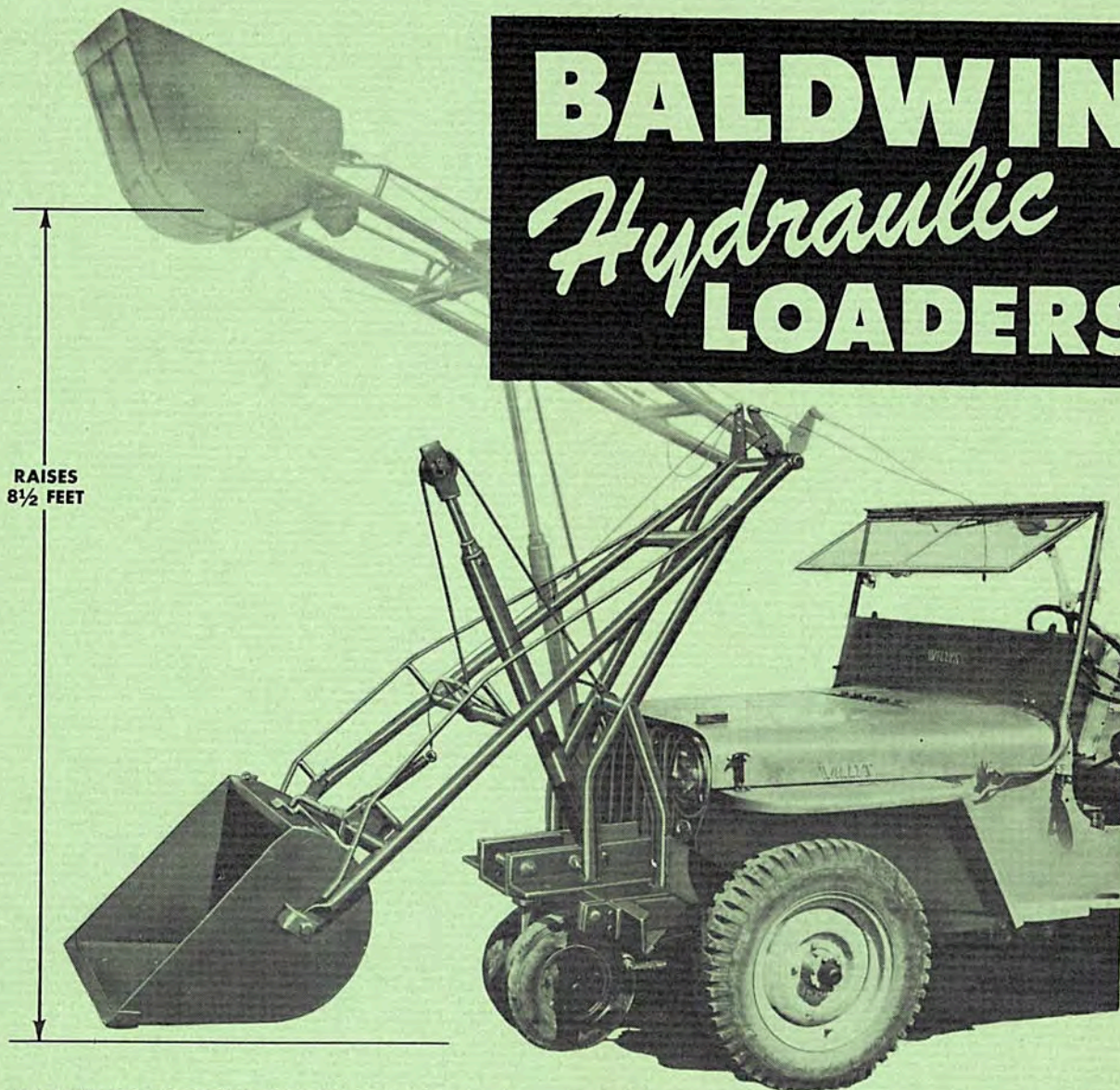
This bucket may be adjusted for digging and easily attached dirt and back plates convert it into a husky scoop for gravel, sand, dirt and coal.

By removing the sand plate the bucket can be used as a manure fork.

Use this unit as a skip loader. Positive trip release allows bucket to be dumped at any desired height.



BALDWIN
Hydraulic
LOADERS



THE BALDWIN "JEEP" LOADER is engineered to co-ordinate and make use of many inherent advantages of the Jeep. This simple, self-contained unit weighing about 550 lbs. is conveniently attached or detached bodily as one piece by removing two pins. The BALDWIN and Jeep, as companions, perform their respective functions; The BALDWIN carrying its own weight, the Jeep supplying the traction with maneuverability never yet attained by conventional tractors.

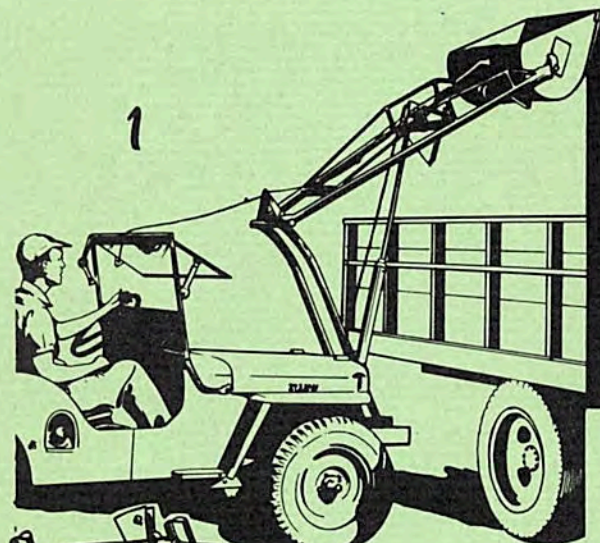
The installation of the BALDWIN does not materially handicap the use of the Jeep as a passenger

vehicle. Almost momentarily the scooping unit and hydraulic ram can be left behind and the caster dolly retracted. The scoop, holding about six cubic feet, is lifted 8½ feet and dumped in a few seconds and automatically swings back to loading position.

The BALDWIN is regularly furnished and recommended to use the Monroe Jeep hydraulic pump and valve system but on special order we can supply hydraulic means, self-contained with the loader.

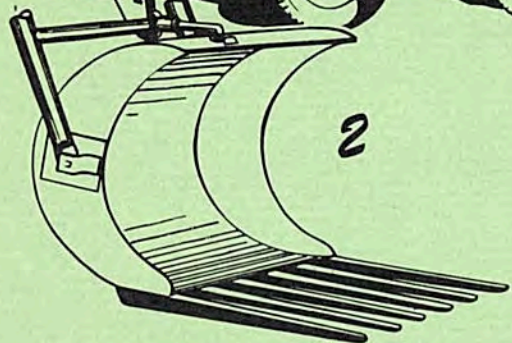
Inquiries are solicited for any further information desired.

BALDWIN IRON WORKS
1440 BARWISE • **WICHITA, KANSAS**



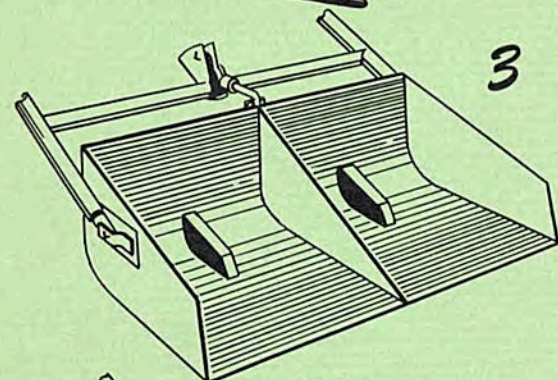
BALDWIN *Accessories*

These all-season, quick-attaching **BALDWIN** accessories will increase the usefulness of the JEEP:

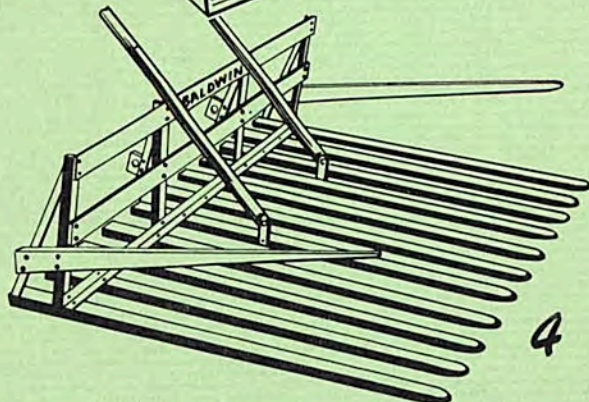


1. *Indicating* relative height of scoop in dumping position.

2. *Manure Fork* for cleaning cattle sheds, corrals and the like.



3. *Snow Scoop* for removing snow, loading grain, ear corn and other light materials.



4. *Hay Buck* for moving hay, feed, grain bundles and shocks.

THE MOBILITY OF THE JEEP IS AN IMPORTANT FACTOR WHEN USING THIS EQUIPMENT

*For Further Information
Write, Wire or Phone...*

BALDWIN IRON WORKS
1440 BARWISE • WICHITA, KANSAS

NOTHING ELSE IN THE WORLD
LIKE THE

NEWTON POWER MOWER

MODEL
J
TO FIT
JEEP

CUTS FULL SWATH



SAFE
TO OPERATE
CONTROLLED
FROM DRIVERS
SEAT

★

COMPACT
UNIT EASY
TO MOVE
OR STORE

ATTACHED
WITHOUT
ANY TOOLS

★

WILL OPERATE
EASILY ON
ALL TYPES
OF TERRAIN

★

ROLLER
BEARINGS
THROUGHOUT

Without any tools or devices other than the Monroe Lift, within 3 minutes the Newton Power Mower can be attached to the JEEP . . . with practice, it can be done in one minute. This is only one of the many distinctive features of the model J, the latest development of the Newton Power Mower.

The mower can be disconnected in less time, also without any tools. It is a rear mount, right hand mower, and is controlled from the driver's seat . . . a safety feature, because the driver need not get off his seat to do any adjustment. And, the mower is fully visible at all times to the driver while cutting a full swath. It will operate efficiently and easily on all types of terrain, including irrigation ditches. Operating with a cutting bar 6 or 7 feet long, it can be operated at a forward speed from 6 to 9 miles per hour. Sensational spring loaded safety release protects knife when cutter bar strikes an obstruction.

Its distinctive features are emphasized here, so that you may quickly understand what we mean when we say, "Nothing else in the world like it for speed in mowing". You haven't seen a mower until you have seen the Newton Power Mower.

H.G.&S.MANUFACTURING Corp. **NEWTON-WIS.**

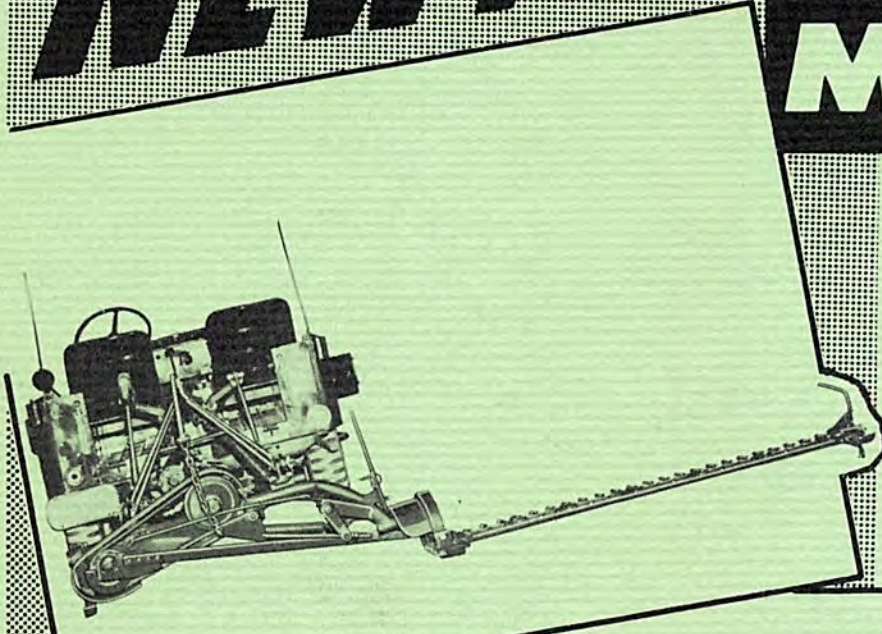
NEWTON

POWER MOWER

It is compact for easy moving and storing, when fastened with a safety tie rod.

Designed and made so simply that it will give years of trouble-free mowing service. It is of all-welded steel construction—a precision built machine, with a minimum of wearing parts . . . expertly designed to eliminate all unessential bolts, brackets, rods, and castings. There are only two possible points of wear to distort cutter bar lead.

Note, it is equipped throughout with roller bearings for smooth performance, and is quickly lubricated through a minimum of accessible fittings.



MODEL J TO FIT JEEP

SPECIFICATIONS

Attachment: To JEEP equipped with Monroe Lift by 3-point linkage.

Drive: By telescoping shaft from power take-off to drive pulley, V-belt to driven pulley with simplified tension adjustment.

Control: Cutter bar raised and lowered by fingertip hydraulic system.

Bearings: Timken tapered roller bearings throughout.

Cutter Bar: 6' or 7' length.

Knife: Smooth or serrated knives.

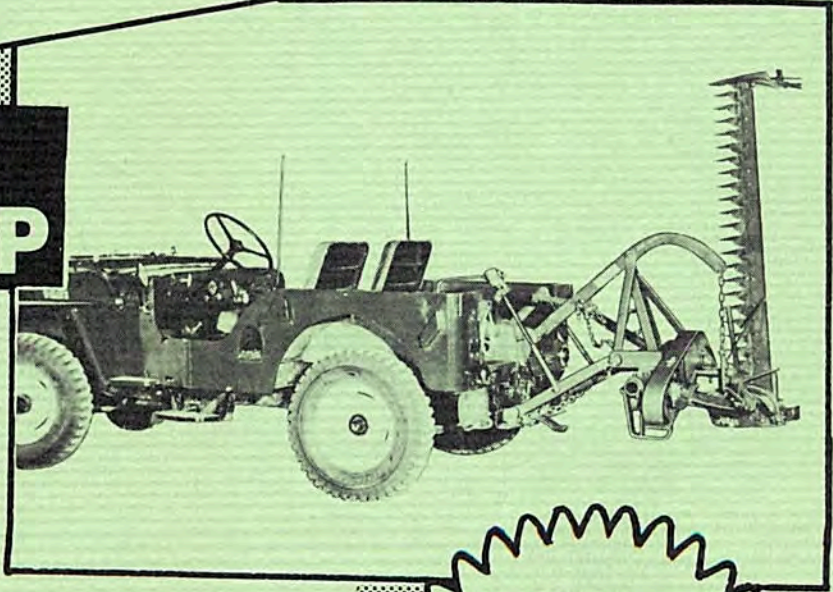
Pitman: Selected hardwood.

Safety Release: Spring Loaded Ball.

Lubrication: Pressure gun to Zerk fittings. Machine oil to other pivot points.

Weight: 415 lbs.

Performance: Mower designed to operate at 6 to 9 MPH.



WRITE

Us for fully colored illustrated catalog sheets and small folders that can be used for consumer mailing.

ORDERS TAKEN only thru Willys distribution

Small assembly time. Mostly assembled.

**H.G.&S. MANUFACTURING CORP.
NEWTON, WISCONSIN**

Field repair expense considerably less on Newton Mowers.

For Orders Outside Territorial U. S. A. Send Inquiries to WILLYS-OVERLAND EXPORT Corp., Toledo 1, Ohio.

K AND K MOWER BAR

Sitting in the upholstered passenger-type Jeep driver's seat while operating the K & K Mower Bar, makes farming easier and less tiring. In fact, you'll be surprised to see how mowing can be done so efficiently with so little effort.

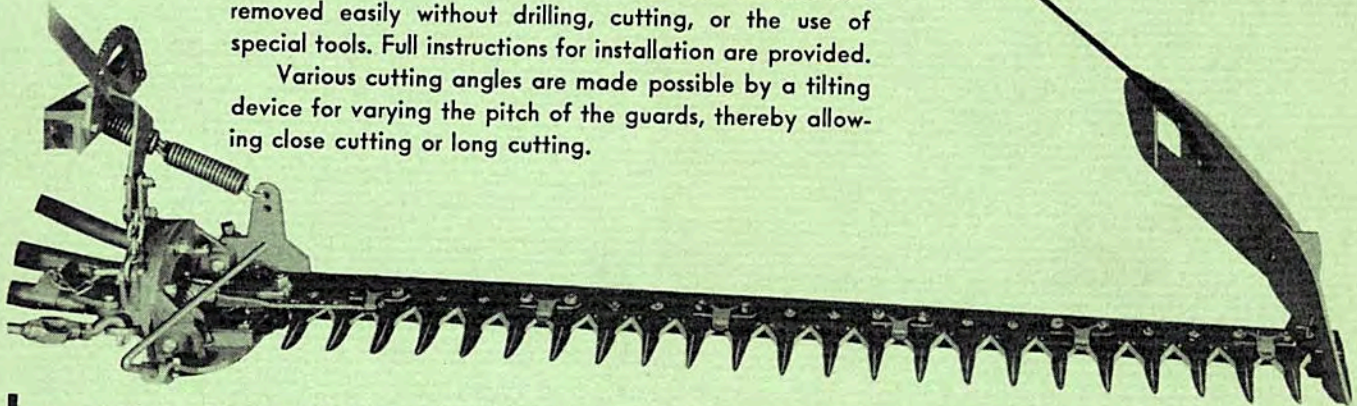


At the same time the mower bar is operating from the center power take-off on the Jeep, the rear power take-off can be used to operate a side rake or loader, along with the mower.

These advantages, plus improved features of the K & K Mower Bar itself (adjustable cutting angle and automatic breakaway) bring to farmers the most modern and scientific method of mowing.

The K & K Mower Bar is a conventional type bar, proven satisfactory for many years by farmers. It is a 6 ft. all-steel, level cut bar operated by V-belt drive from the center power take-off. The 6 ft. knife is reinforced steel and has a 3 in. stroke. The bar can be attached and removed easily without drilling, cutting, or the use of special tools. Full instructions for installation are provided.

Various cutting angles are made possible by a tilting device for varying the pitch of the guards, thereby allowing close cutting or long cutting.



In the manufacture of the K & K Mower Bar only the finest materials are used—metals that have been tested for toughness and durability. Precision bearings of the best quality are carefully selected for their proper usage.

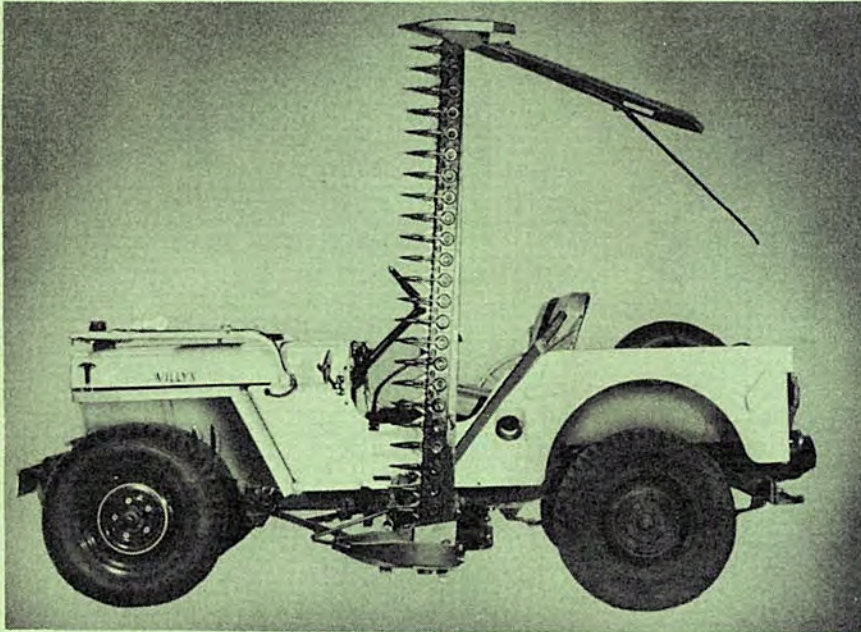
Inner and outer shoes are fabricated from steel plate and are electrically arc welded. Guards are all steel pressed type. The Pitman has welded tubular housing, with needle roller bearings,

removable forged steel ball caps, and self-aligning fork pivots.

The frame is also steel plate, electrically welded and reinforced throughout. Through the use of a slip joint there is no danger of damaging Jeep frame or mower bar in case an obstacle is struck. The bar will swing away from the main frame, which is accomplished by hinged connections between underframe and mower bar proper.

K AND K MANUFACTURING CO.
1134 BROADWAY
DENVER, COLORADO

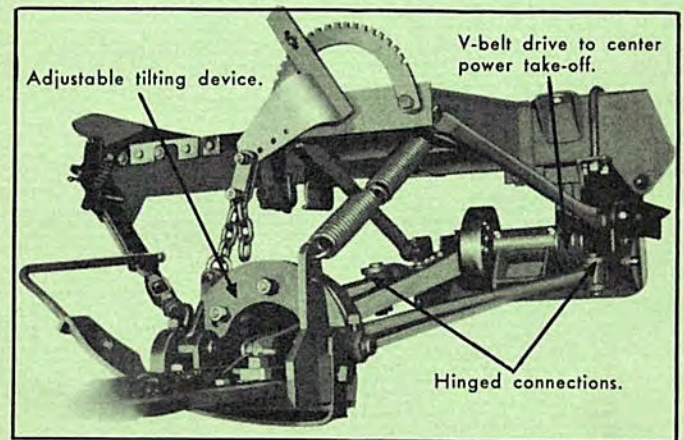
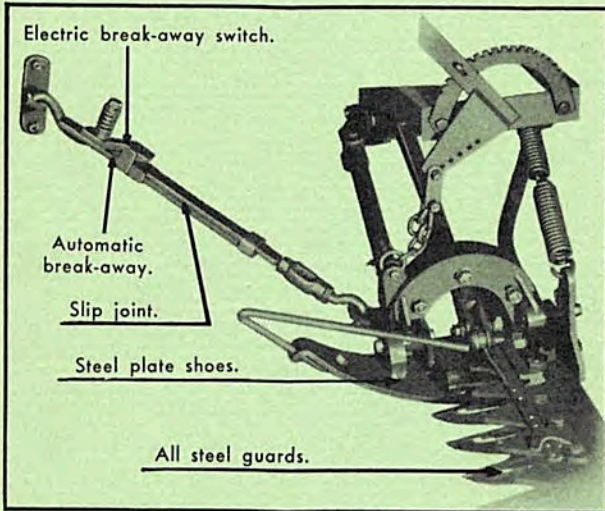
WILLYS-OVERLAND EQUIPMENT BOOK



As an added feature, the K & K Mower Bar is equipped with a safety break-away that automatically breaks upon contact with an obstruction, and at the same time an electric switch cuts out the ignition on the Jeep. Thus, under no circumstances can the mower bar be damaged by striking obstacles.

Mounted on the left side of the Jeep, the K & K Mower Bar is in full view at all times while mowing. This allows more accurate cutting, and permits the operator to see obstructions and avoid striking them. The bar is

available with hand or hydraulic operation so it can be raised to clear rocks, stumps, and other damaging obstacles instantly the moment they are seen.



Main drive bearings are roller type, with dust seals and grease retainers. There are pressure fittings throughout for lubrication.

V-belt drive is provided from center power take-off to Pitman drive pulley with adjustment for belt take-up.

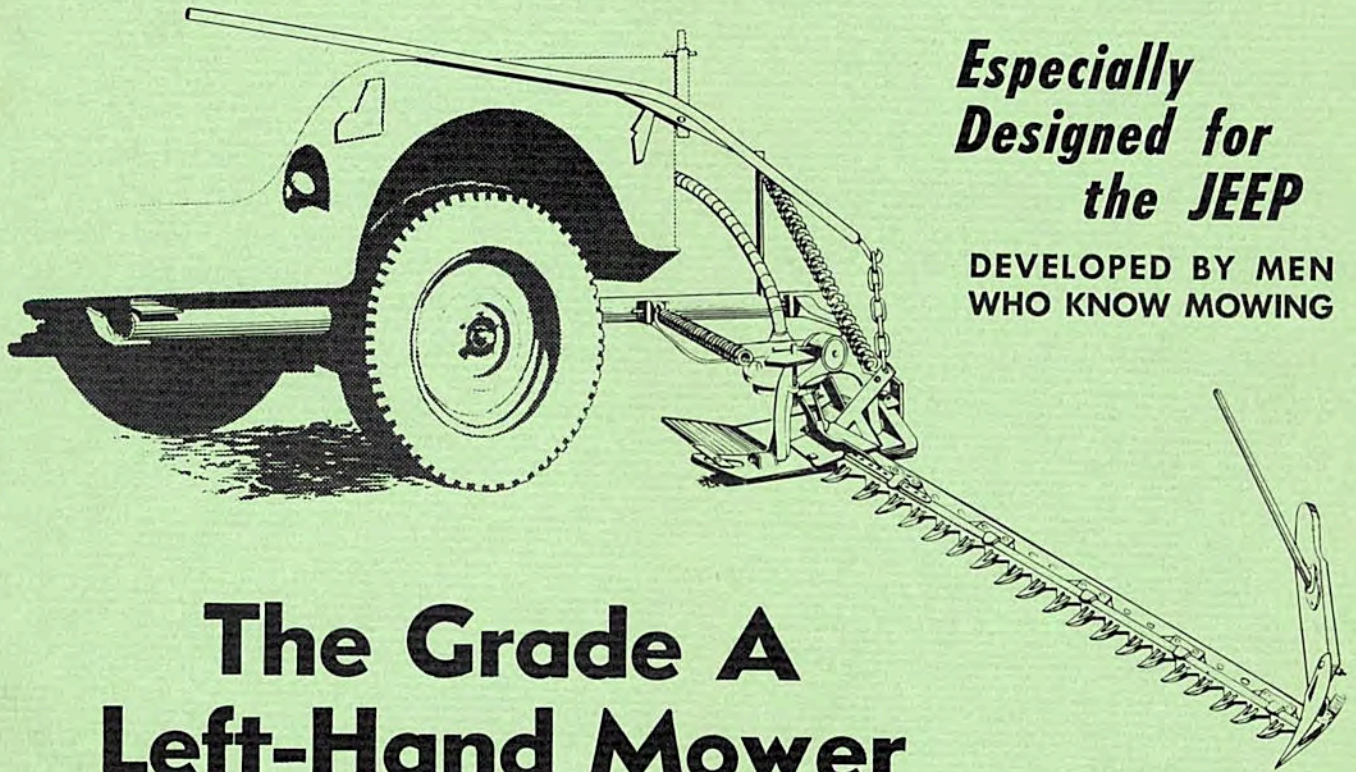
Everything has been done to make it easy for you to mow better, faster, and more efficiently.

To insure your satisfaction, the K & K Manufacturing Company

guarantees every bar it makes against defective workmanship and material. However, bars are not guaranteed against breakage through misuse or excessive operating speeds. Every K & K Mower Bar is individually bench tested and operated before leaving the factory. Inquire at your local Jeep dealer for more information on the K & K MOWER BAR . . . your BEST BUY IN MOWERS!

K AND K MANUFACTURING CO.
1134 BROADWAY
DENVER, COLORADO

Grade A Jeep Mowers Sell More Jeeps



**Especially
Designed for
the JEEP**

**DEVELOPED BY MEN
WHO KNOW MOWING**

The Grade A Left-Hand Mower

EVERY FARMER OWNING A JEEP WILL WELCOME IT

The Grade A Left-Hand Mower is especially designed for attaching to the Jeep.

The Grade A Mower is mounted just back of the operator's seat, giving the operator a full-down view of both grass and ground conditions ahead of the cutter bar. No front-mounted or right-hand mounted mower can give this ground view.

The Grade A Left-Hand Mower is a fast-cutting, labor saving piece of farm equipment that will not only increase your sales volume,

but contribute to an increase in Jeep sales.

Tough as the Jeep itself, the Grade A Mower will do more mowing in less time, on any ground condition, than any other mower. Because of its simple design it sells itself to the farmer on sight.

The Grade A Mower can be mounted or demounted in a few minutes, and requires no special skill to operate it. One-man operation adds economy to highest mowing efficiency.

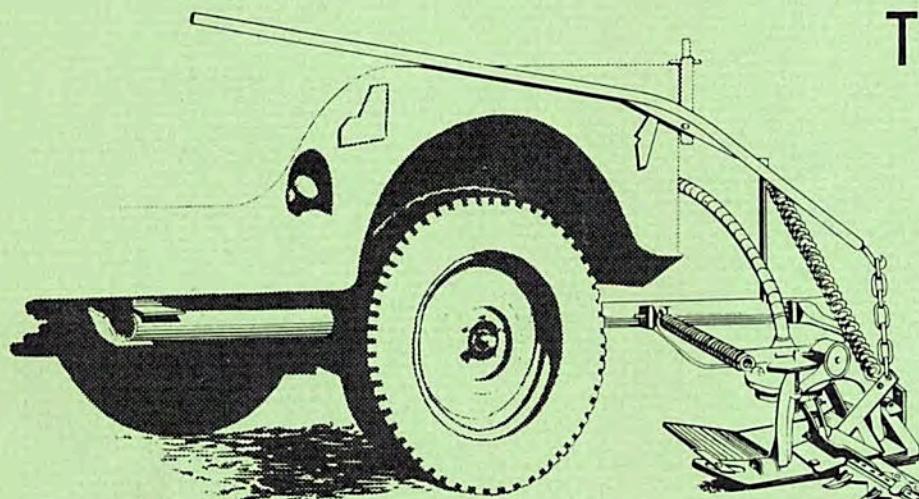
**MAKES EVERY FARMER USING A HORSE-DRAWN
MOWER A GOOD PROSPECT FOR A JEEP SALE**

(TURN THE PAGE FOR FURTHER PARTICULARS)

Grade A Equipment Corp., Saugus, Massachusetts

Grade A Jeep Mowers Sell More Jeeps

(SEE ALSO PRECEDING PAGE)



The Grade A Left-Hand Mower

*Designed Especially
for the JEEP*

Four Great Features

- 1** Position of Grade A Mower bar lets operator look ahead of knife, even in thick hay, and avoid obstacles.
- 2** Gives operator full view of ground and operation. Mower bar is free to float up and down on uneven ground, and maintains correct mowing height at all times.
- 3** One-man mounted, operated, and demounted. Mower bar is mounted to minimize see-saw, which is counterbalanced by float adjustment on mower.
- 4** Easy to operate. Mower bar controlled by slight pressure of operator's left arm. Anyone who can drive a Jeep can operate the Grade A Mower and do more mowing in less time than with any other type of mower.

Every farmer who owns a Jeep will welcome the Grade A Left-Hand Mower. It is simple, sturdy, and tough. Parts subject to wear or heavy strain are steel or malleable. Drop-forged guards. All bearings ball equipped. Mower hugs ground under all conditions of roughness. Operates on reasonably level land in second gear Jeep speed. Shows lowest cost per acre mowed.

**INCREASE YOUR EQUIPMENT AND JEEP SALES
BY FEATURING THE GRADE A LEFT-HAND MOWER**

WRITE FOR PRICES AND DEALER DISCOUNTS

Grade A Equipment Corp., Saugus, Massachusetts